

# Employment and Earnings

## November 1979



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**U.S. DEPARTMENT OF LABOR**  
Ray Marshall, Secretary

BUREAU OF LABOR STATISTICS  
Janet L. Norwood, Commissioner

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## Calendar of Features

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

### 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. <sup>1</sup>
Revised seasonally adjusted series	Oct. <sup>2</sup>
State and area annual averages	May
Area definitions	May

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

<sup>2</sup> 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.

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# Employment and Earnings

Vol. 26 No. 11 November 1979

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

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# Employment and Unemployment Developments, October 1979

The overall employment situation was characterized by mixed developments in October. Unemployment rose, and the two sample surveys showed different movements in employment. The Nation's unemployment rate increased from 5.8 percent in September to 6.0 percent in October, the same as it was in August. The rate thus remained at the top of the 5.6 to 6.0 range that has prevailed for the past 14 months.

Total employment—as measured by the monthly survey of households—edged down by 220,000 in October to 97.3 million. Employment had expanded substantially in September and was up by 2.1 million over the year. In contrast, nonfarm payroll employment—as measured by the monthly survey of establishments—rose by about 300,000 to 90.2 million in October, following 2 months of little growth. The number of payroll jobs has advanced by 2.8 million since October 1978.

## Unemployment

The number of unemployed persons rose by nearly 200,000 in October to 6.2 million, with most of the increase occurring among persons who had lost their jobs. The overall unemployment rate moved up from 5.8 percent in September to 6.0 percent, the same as the August rate and close to the rates prevailing since August of 1978. (See tables A-33 and A-39.)

Over-the-month increases in unemployment occurred among adult women and blacks, as their jobless rates rose to 5.8 and 11.7 percent, respectively. The increase among women reversed a decline of comparable magnitude in September. In contrast, the unemployment rate for adult men, at 4.3 percent, was little changed from September, though it was up four-tenths of a percentage point from the May-June level. Likewise, jobless rates for most other major worker categories, including teenagers, whites, and full-time workers, were about the same as in the previous month. (See table A-36.)

## Total Employment and the Labor Force

Total employment edged down by 220,000 in October to 97.3 million. Movements in employment have been somewhat erratic in recent months; the October level was not much different than July. The employment-population ratio was 59.2 percent in October, down 0.2 percentage point from September. Over the past year, total employment has advanced by 2.1 million; all of this

increase took place among adults.

The civilian labor force held at 103.5 million in October, as the over-the-month increase in unemployment was offset by the decline of about equal magnitude in employment. Since October 1978, the civilian labor force has risen by 2.4 million, but growth has slowed considerably since March, totaling only 760,000.

The civilian labor force participation rate, at 63.7 percent, returned to its August level after hitting an all-time high of 63.9 percent in September. Over the year, labor force participation has increased by 0.4 percentage point, due entirely to continued gains in adult female participation.

## Industry Payroll Employment

Nonfarm payroll employment rose by 305,000 in October to 90.2 million, following negligible increases in each of the prior 2 months. Payroll employment has advanced by 2.8 million over the past year. (See table B-4.)

Service-producing industries accounted for virtually all of the employment gain, with wholesale and retail trade and services registering the largest absolute increases. Transportation and public utilities and finance, insurance, and real estate also posted gains, while government employment was about unchanged.

Employment in the goods-producing sector was little changed from September. Jobs in construction increased 30,000 while employment in mining was unchanged. Overall manufacturing employment was essentially the same as in September, as declines in durable goods about offset gain in nondurable goods. Within the durable goods industries, transportation equipment jobs fell by 55,000 in October. Most of this decline probably occurred in the summer months but was not apparent at that time because of problems of seasonally adjusting auto model change-over. Strike activity was responsible for a drop of 40,000 in machinery. Among the nondurable goods industries, job gains were scattered, with the largest taking place in food processing and printing and publishing.

## Hours

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls was 35.5 hours in October, down 0.2 hour from September. Declines took place in every industry division except

manufacturing. Manufacturing hours, at 40.1, have shown little change since May but were down 0.4 hour over the past year. Factory overtime, at 3.2 hours, was also unchanged from September. (See table C-7.)

The index of aggregate weekly hours was unchanged in October at 125.9 (1967=100). The index was up 2.4 percent over the year, due entirely to employment gains. The manufacturing index was little changed both over the month and from a year earlier. (See table C-8.)

#### **Hourly and Weekly Earnings**

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls edged up 0.3 percent in October (seasonally adjusted) and were 7.5 percent above October 1978. Average weekly earnings declined 0.2 percent over the month but were up 6.6 percent from October 1978.

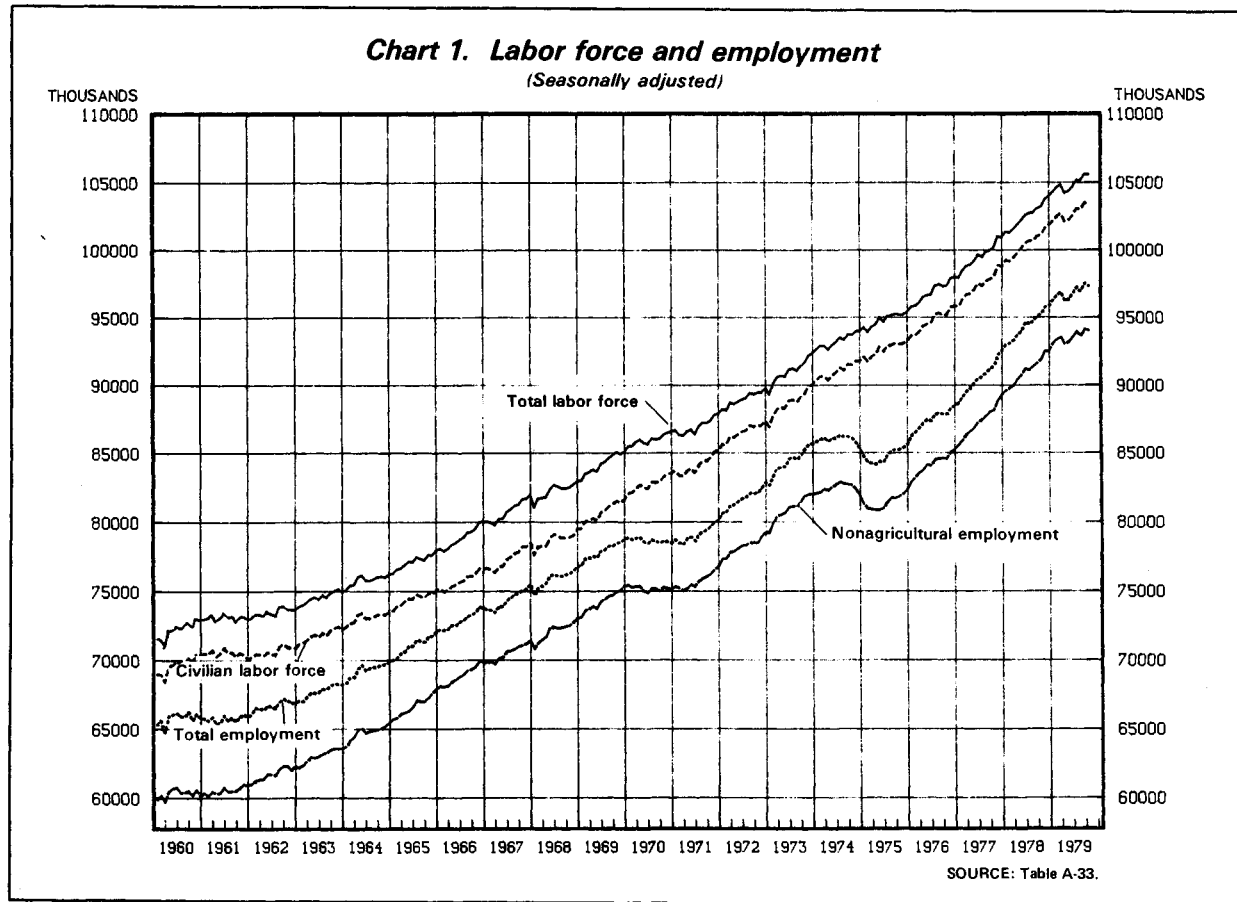
Before adjustment for seasonality, average hourly earnings rose 1 cent from September to \$6.31, 44 cents above October 1978. Average weekly earnings were \$224.64 in October, down 90 cents from September but up \$13.91 over the year. (See tables C-1 and C-9.)

#### **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 234.9 (1967=100) in October, 0.3 percent higher than in September. The index was 7.7 percent above October a year ago. During the 12-month period ended in September, the Hourly Earnings Index in dollars of constant purchasing power decreased 3.7 percent. (See table C-9.)

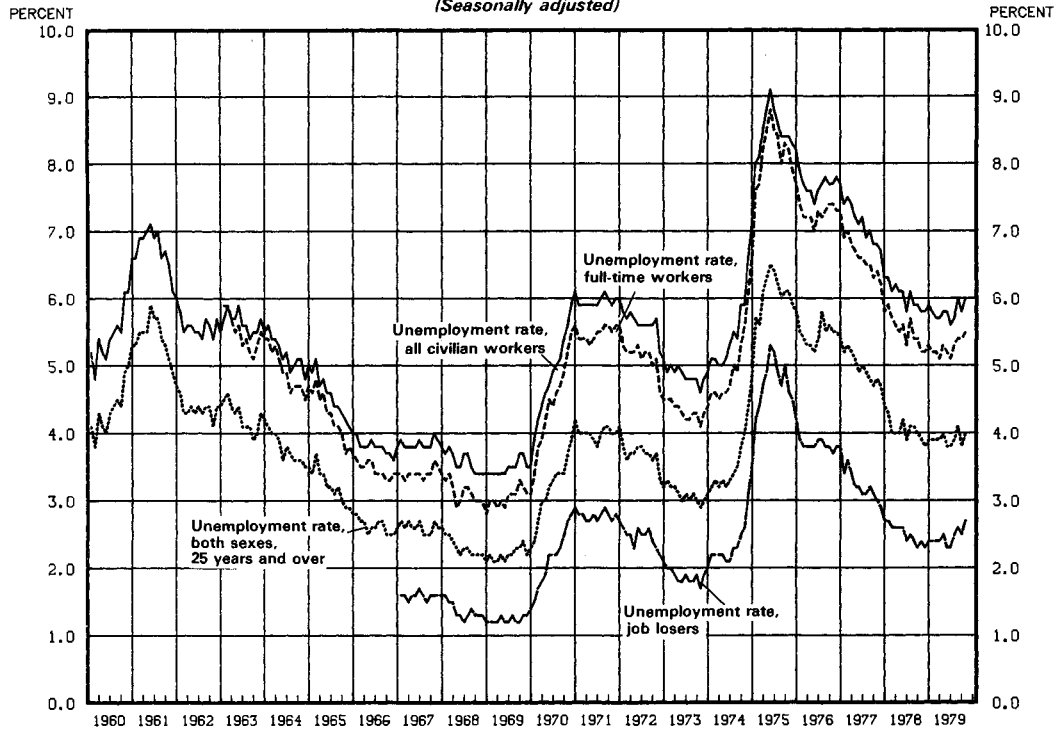
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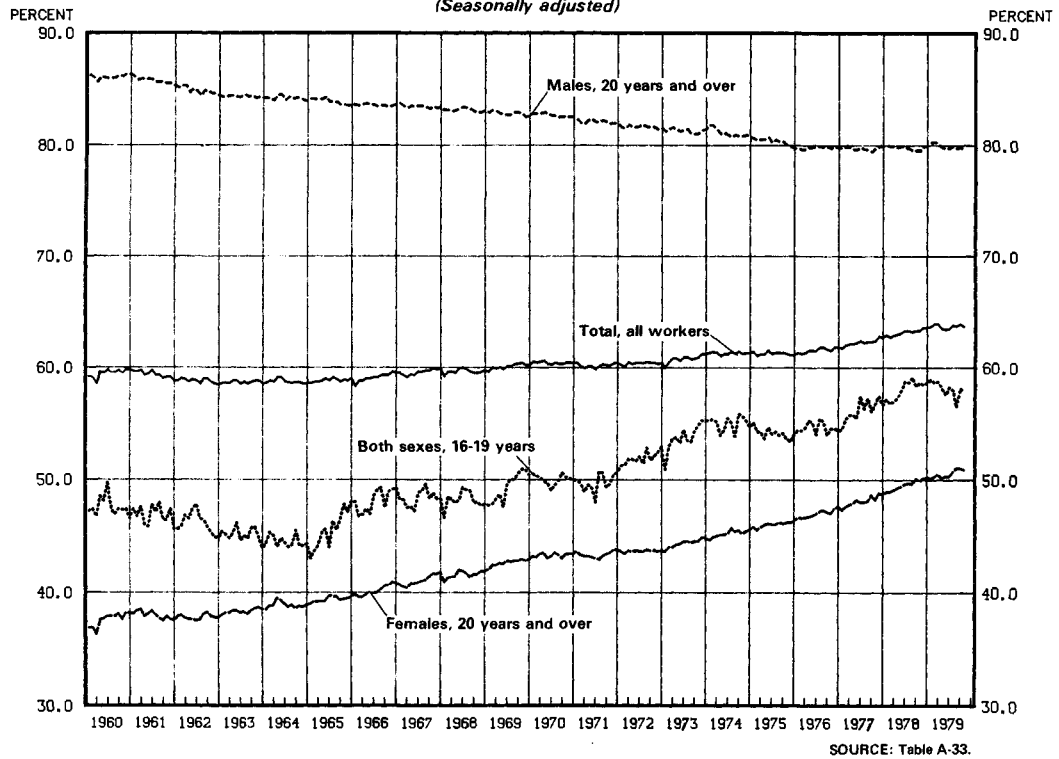




**Chart 2. Major unemployment indicators**  
(Seasonally adjusted)

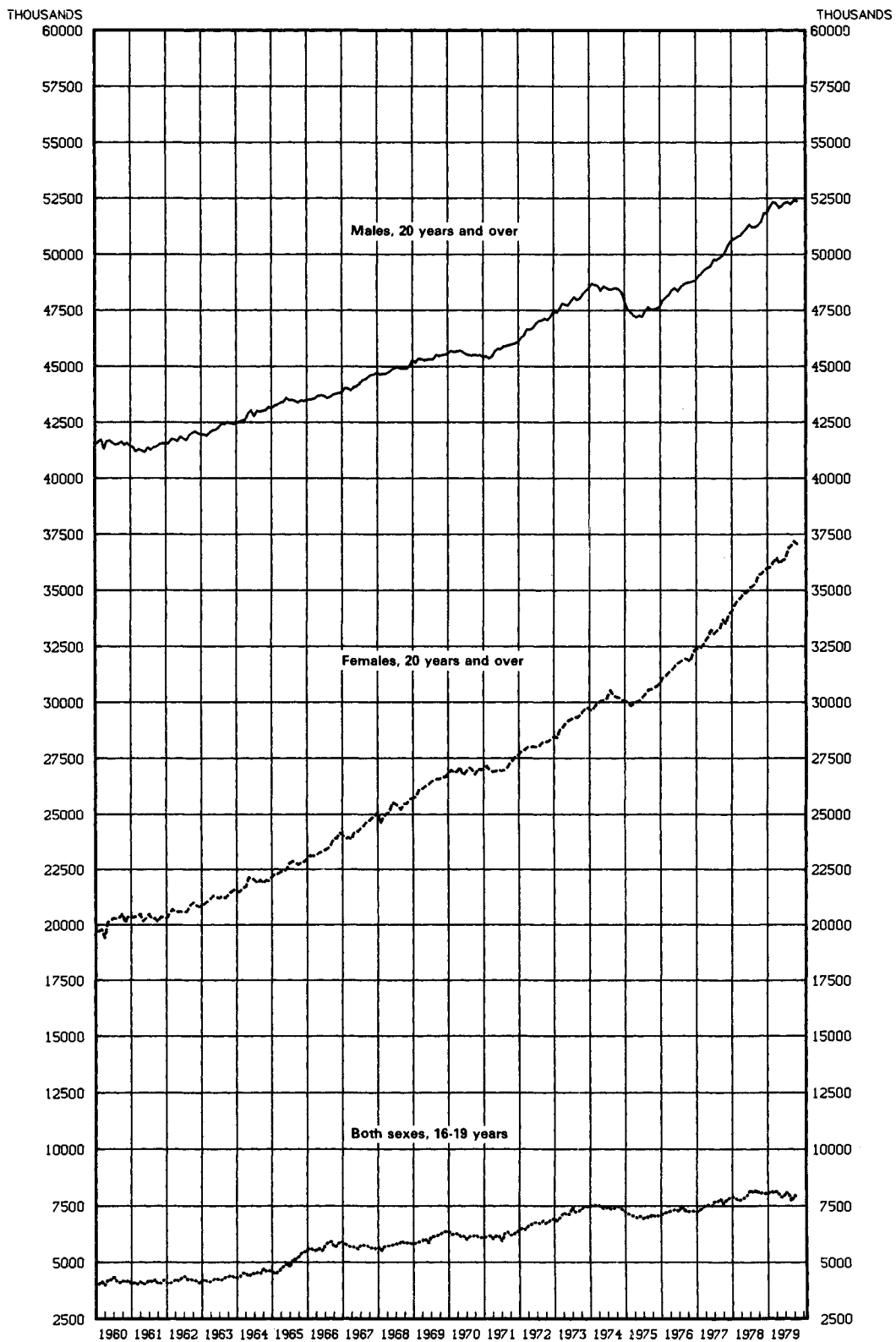


**Chart 3. Civilian labor force participation rates by sex and age**  
(Seasonally adjusted)



### Chart 4. Total employment by sex and age

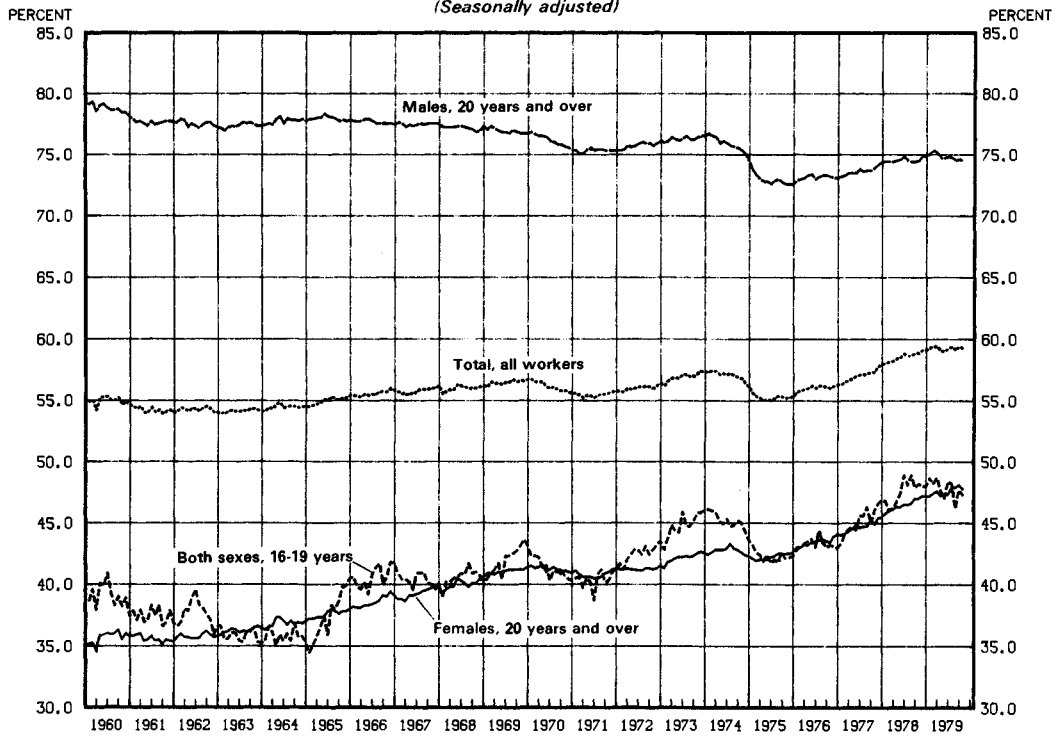
(Seasonally adjusted)



SOURCE: Table A-33.

**Chart 5. Employment—population ratios by sex and age**

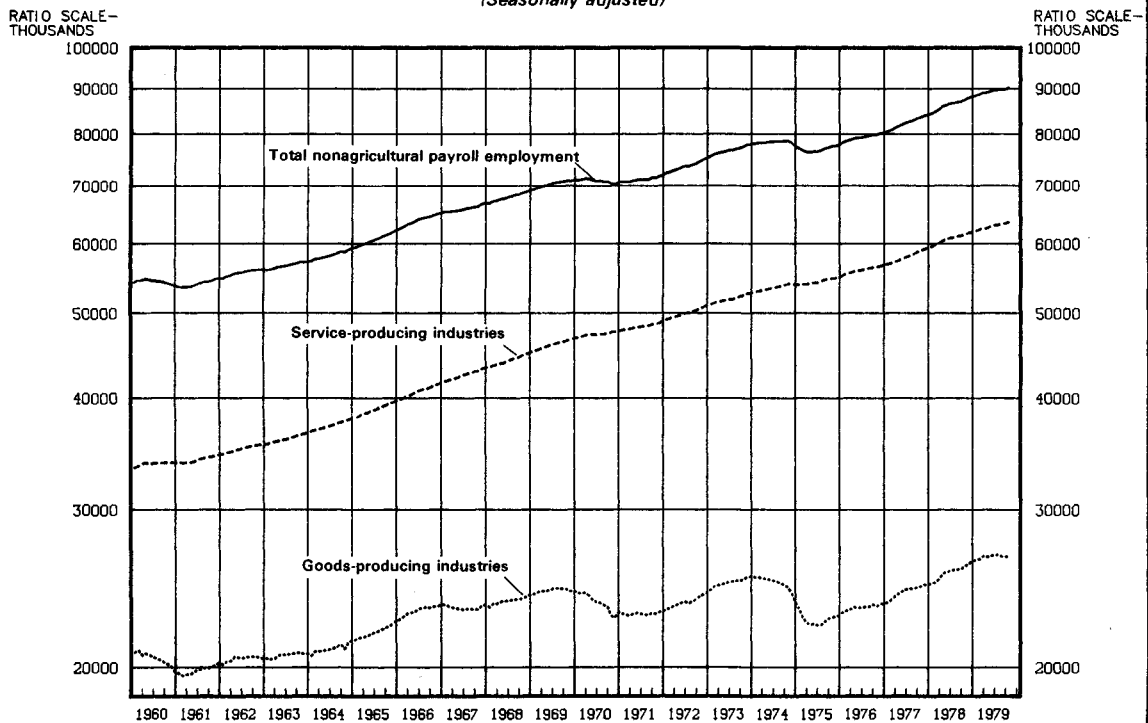
(Seasonally adjusted)



SOURCE: Table A-33.

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

(Seasonally adjusted)

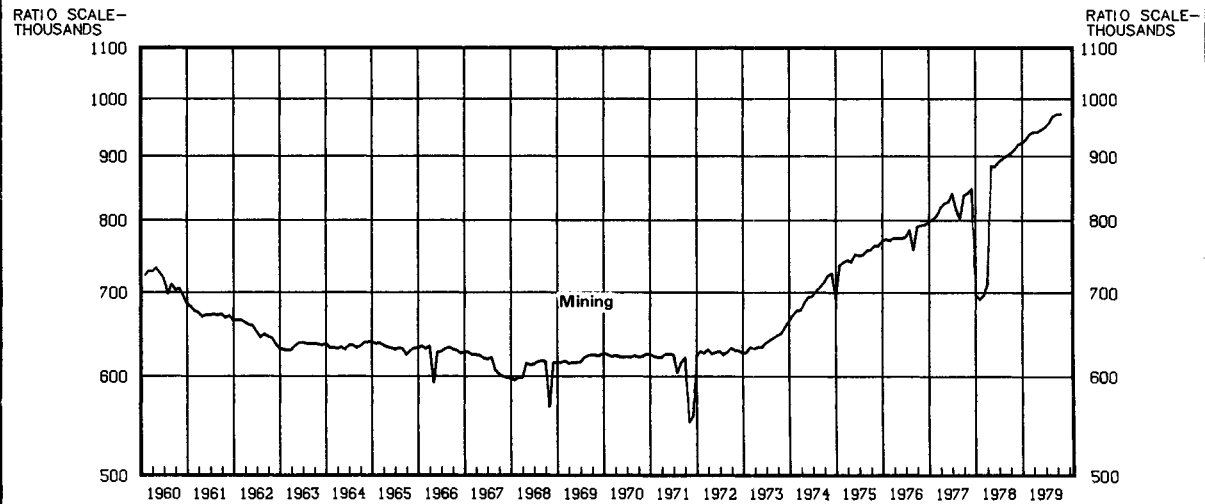
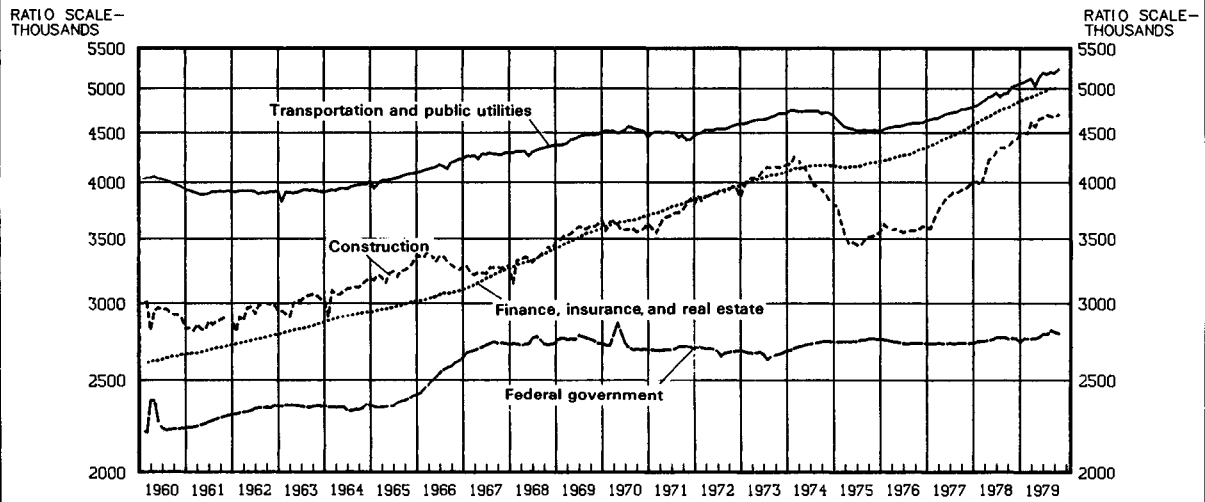
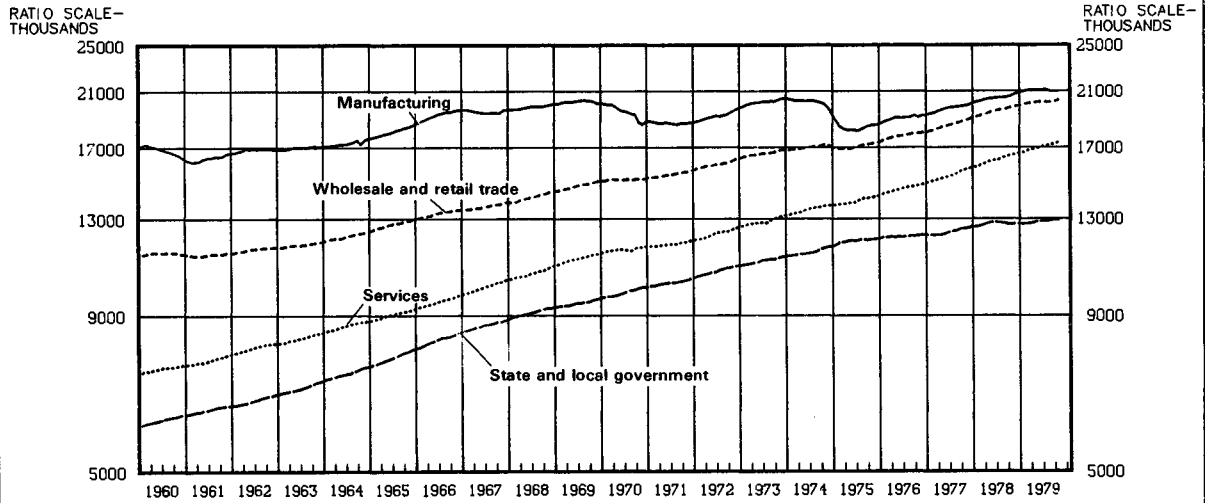


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

### Chart 7. Nonagricultural payroll employment by industry

(Seasonally adjusted)

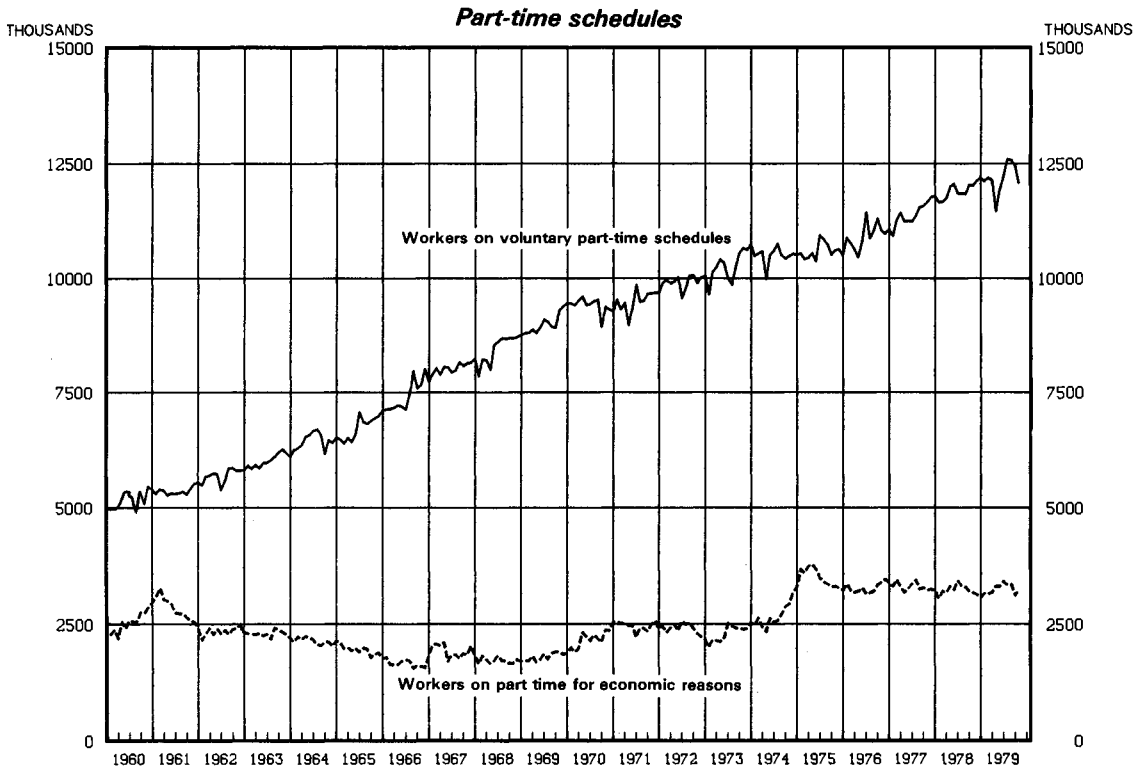
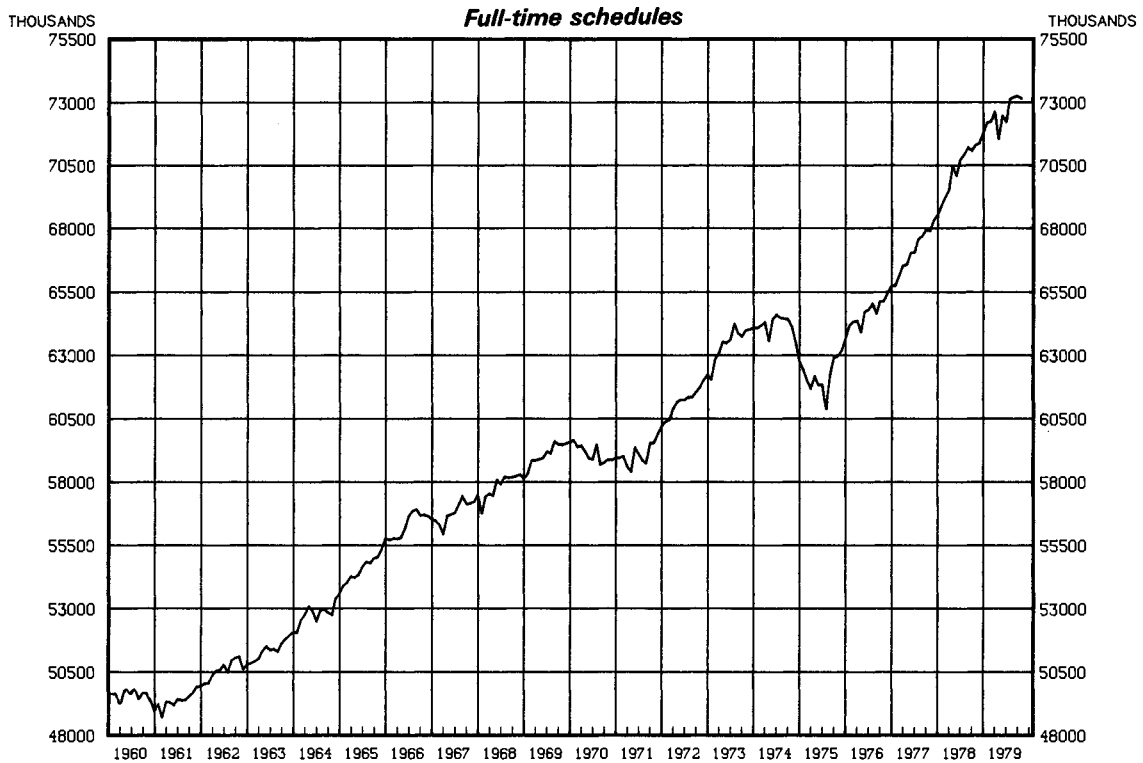


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

**Chart 8. Persons at work full and part time in nonagricultural industries**

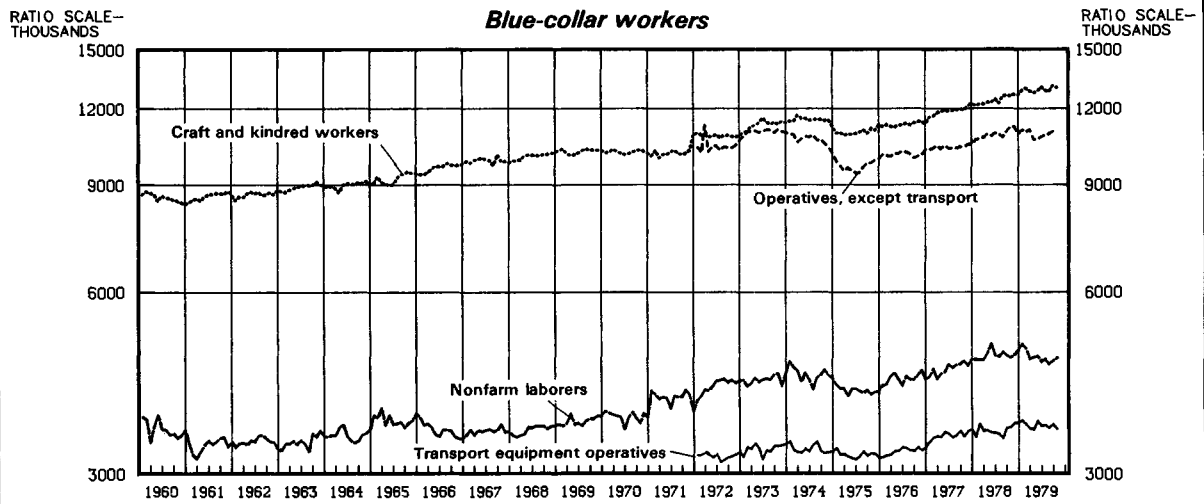
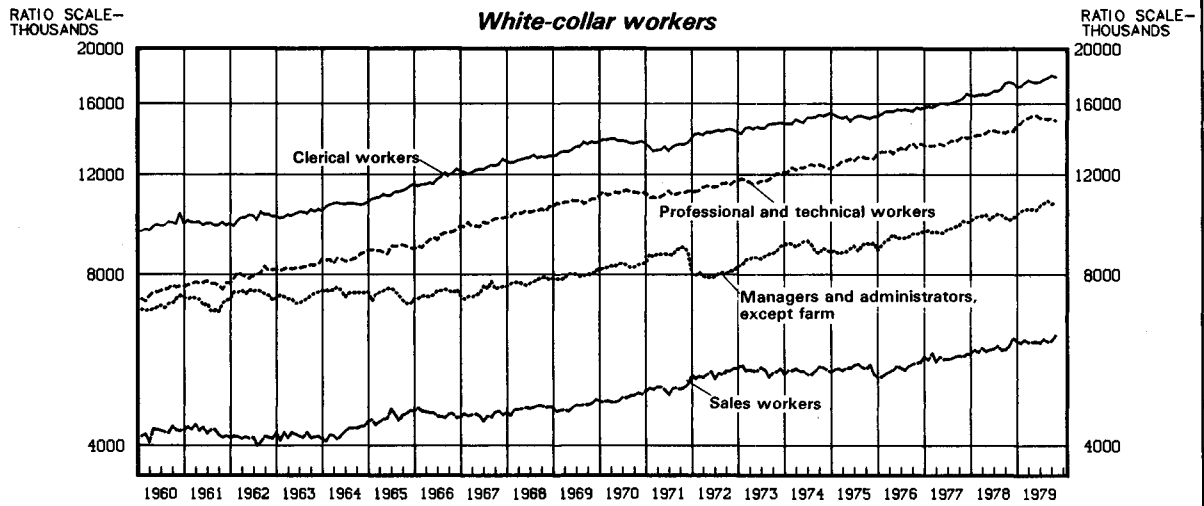
*(Seasonally adjusted)*



SOURCE: Table A-42.

### Chart 9. Employment in nonfarm occupations

(Seasonally adjusted)

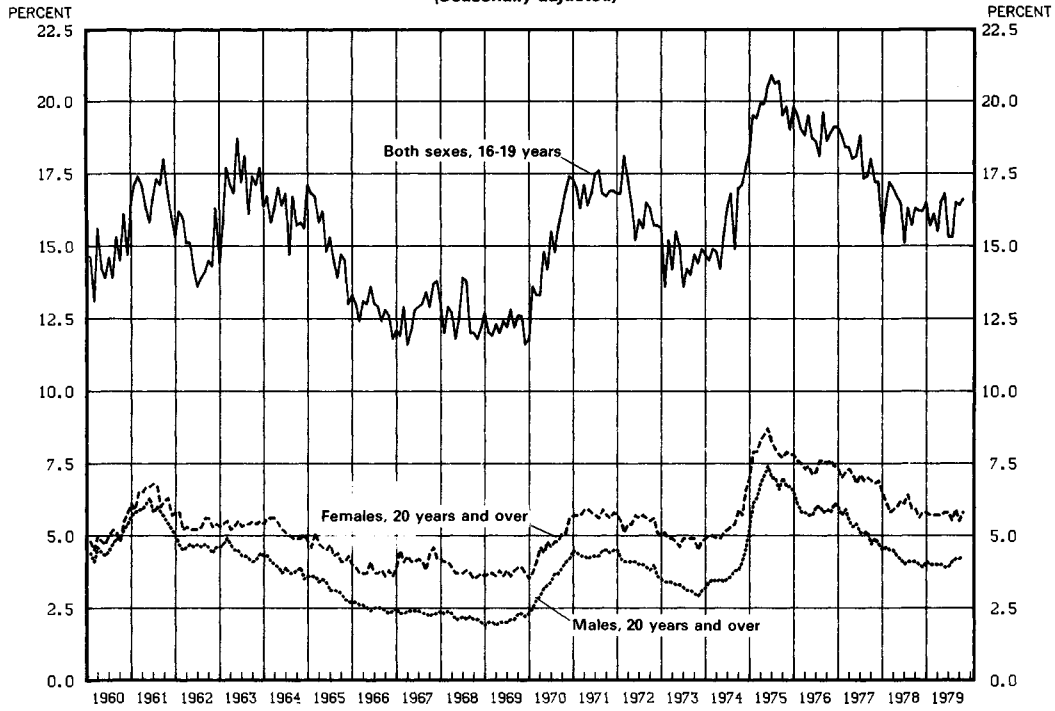


NOTE: Two breaks in series occurred in 1971 stemming from the reclassification of occupations introduced in January and from a questionnaire change concerning "major activity" introduced in December. See "Changes in occupational classification system" in the Explanatory Notes.

SOURCE: Table A-42.

**Chart 10. Unemployment rates by sex and age**

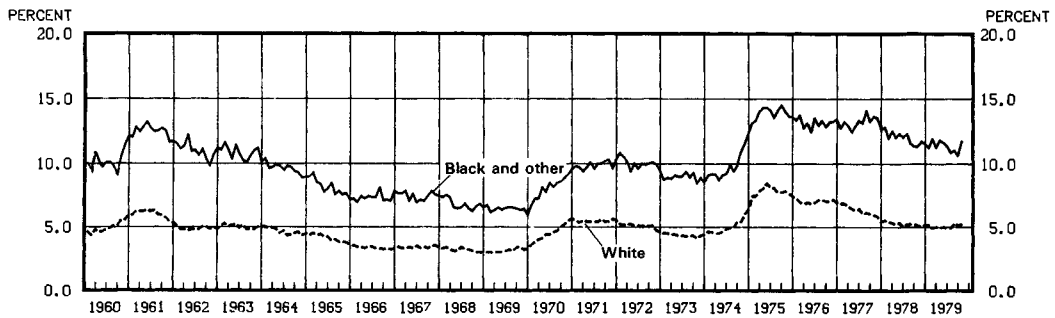
(Seasonally adjusted)



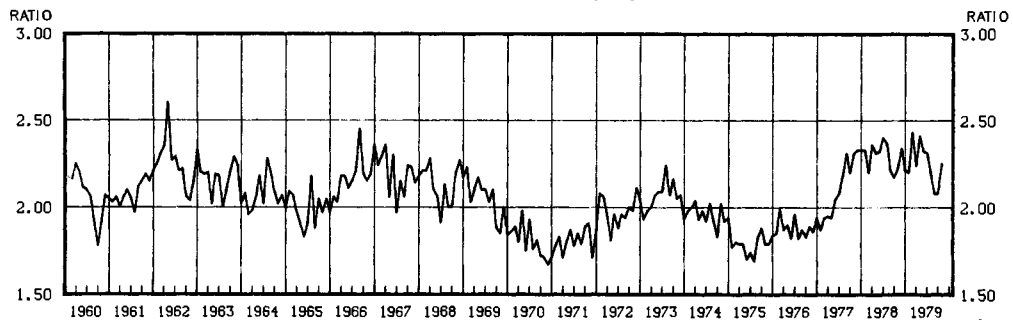
SOURCE: Table A-36.

**Chart 11. Unemployment rates by race**

(Seasonally adjusted)

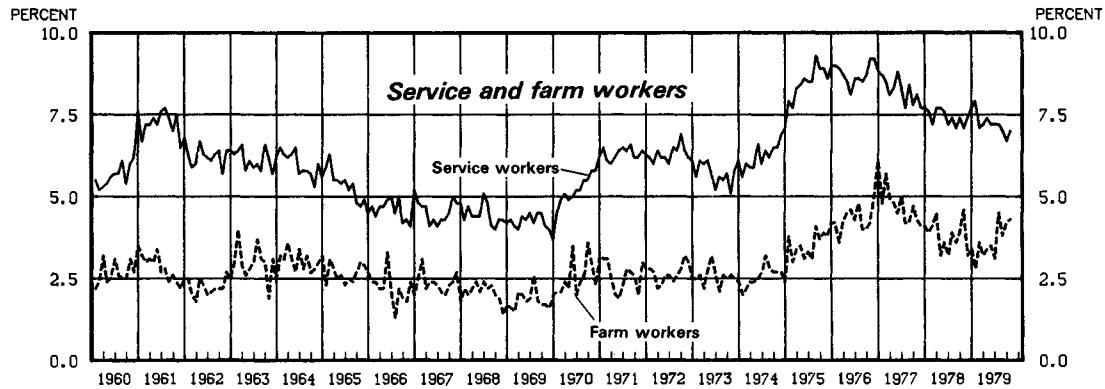
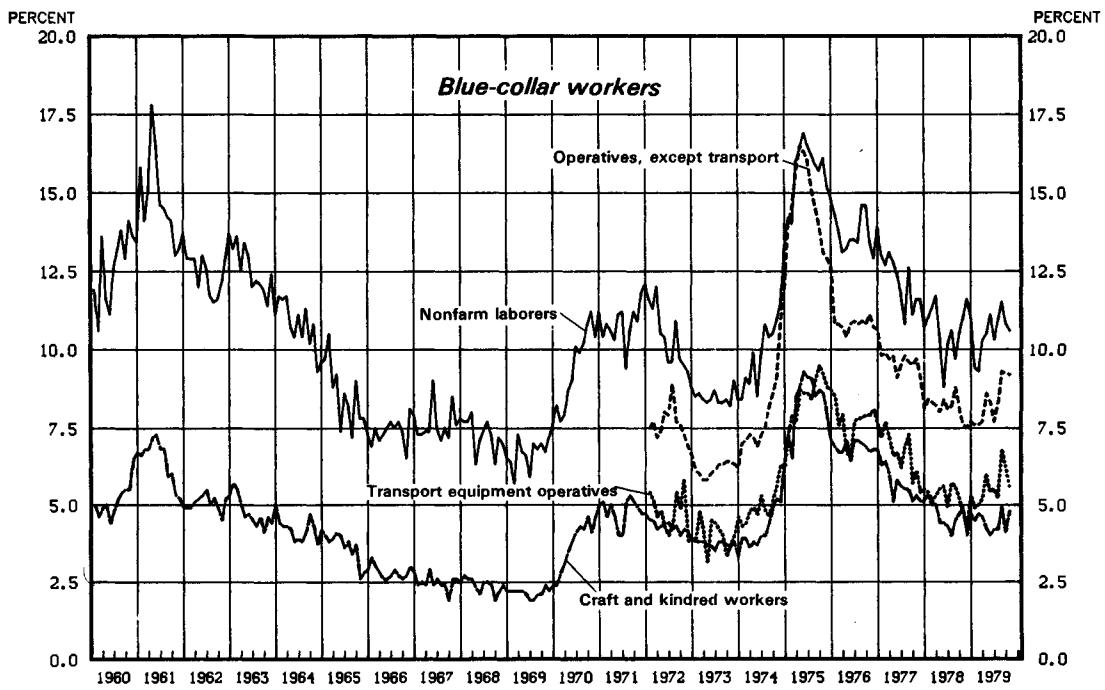
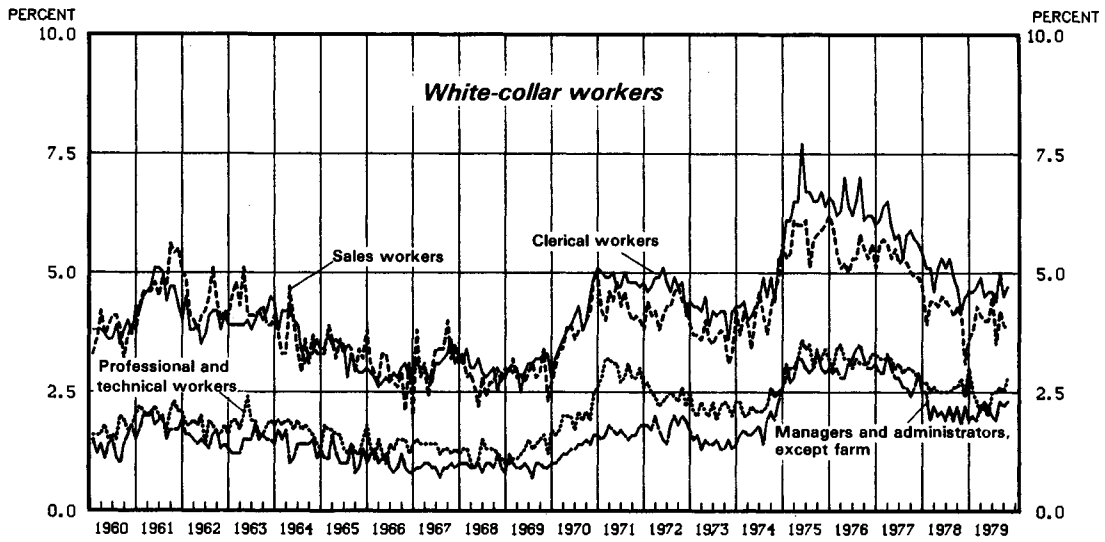


**Ratio of black to white unemployment rate**



SOURCE: Table A-35.

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

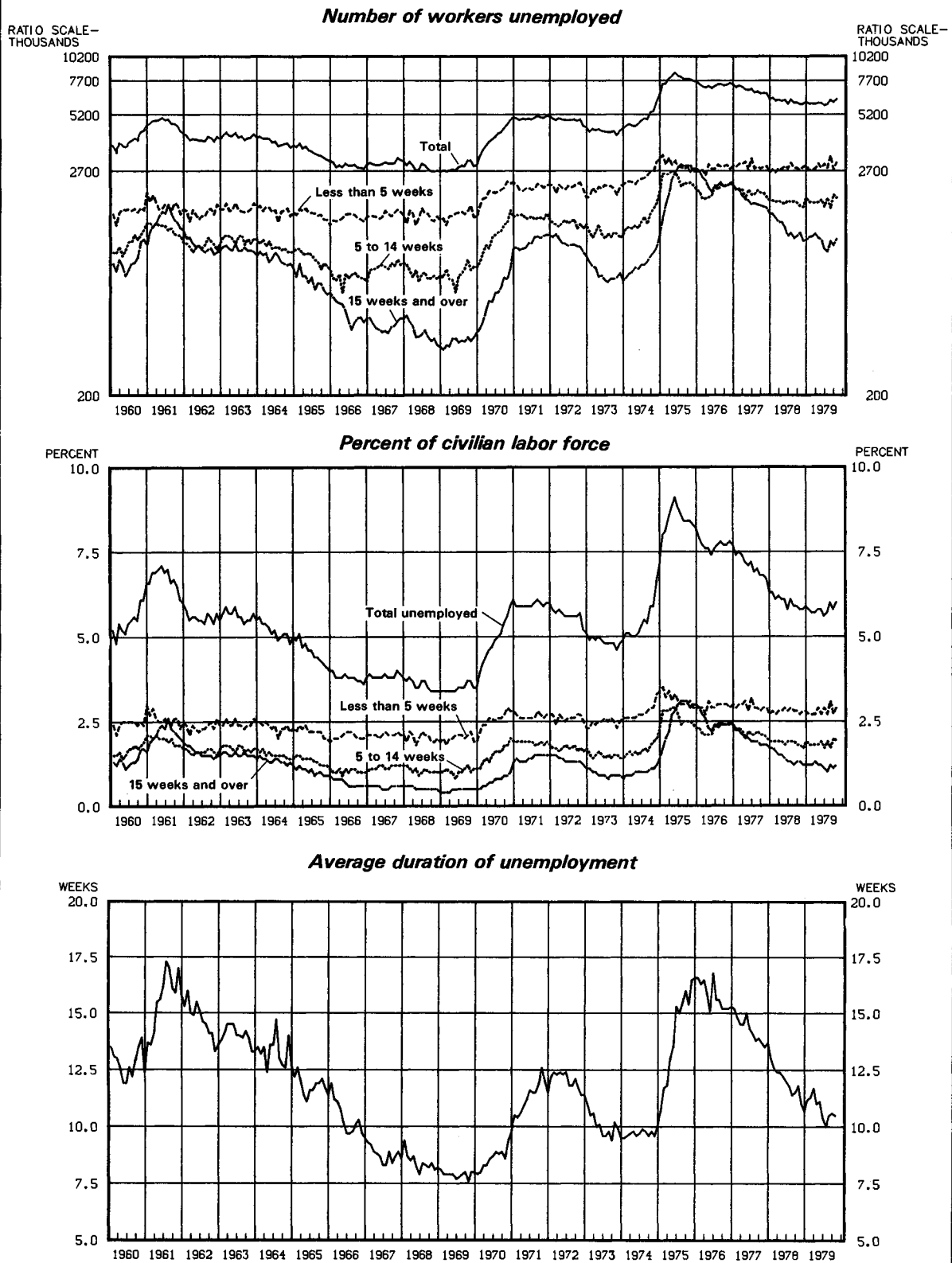


SOURCE: Table A-36.



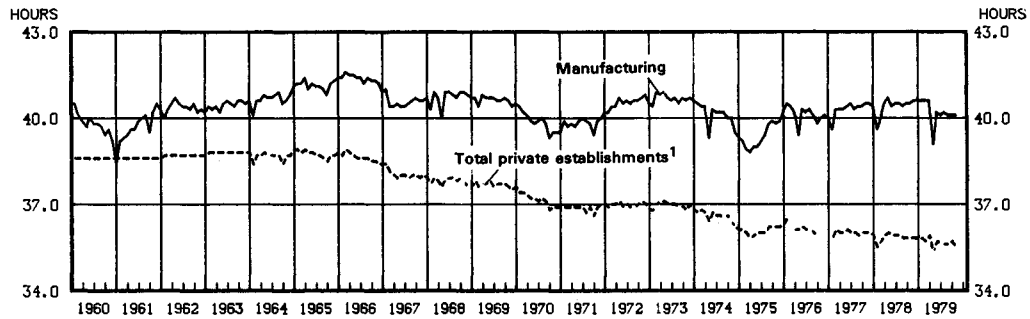
### Chart 13. Duration of unemployment

(Seasonally adjusted)

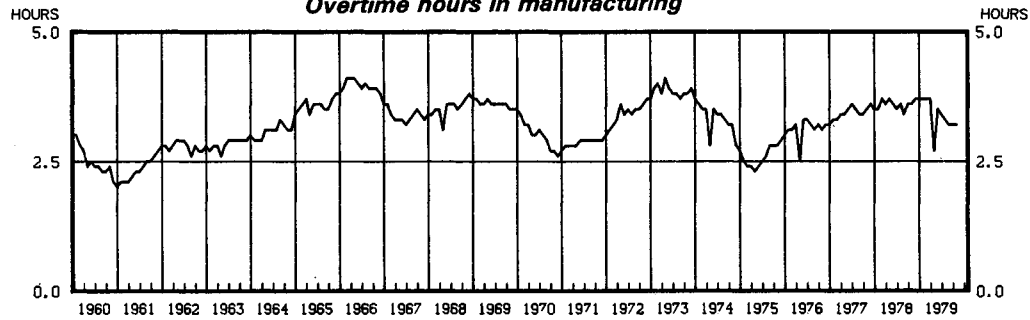


SOURCE: Table A-37.

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



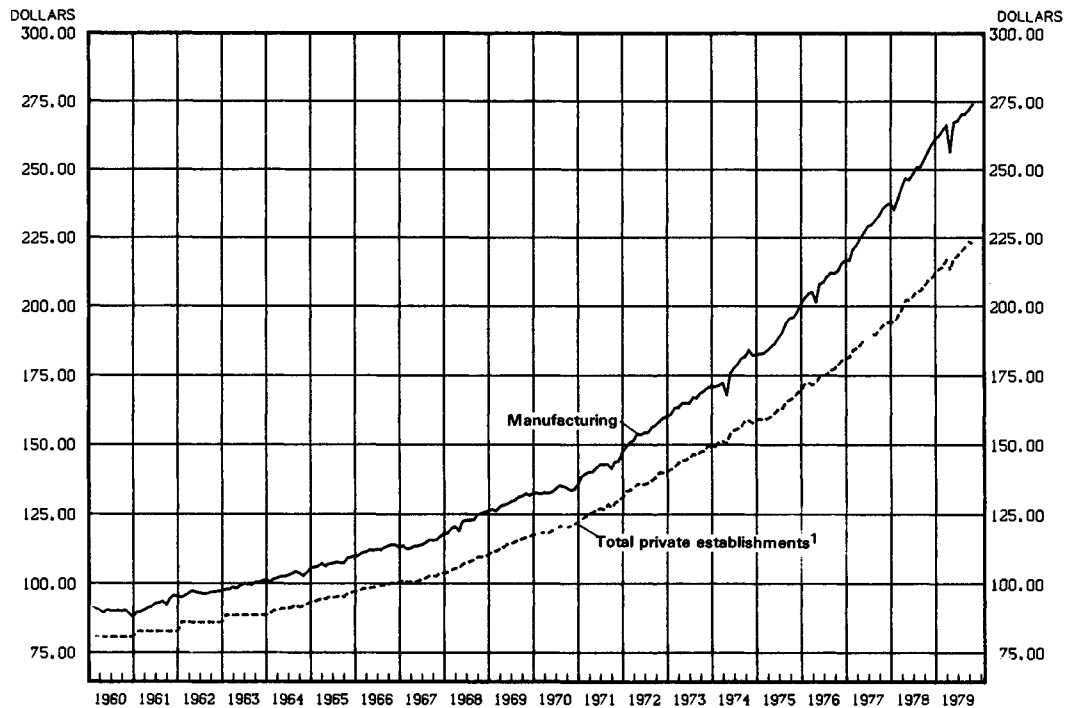
**Overtime hours in manufacturing**



<sup>1</sup>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)

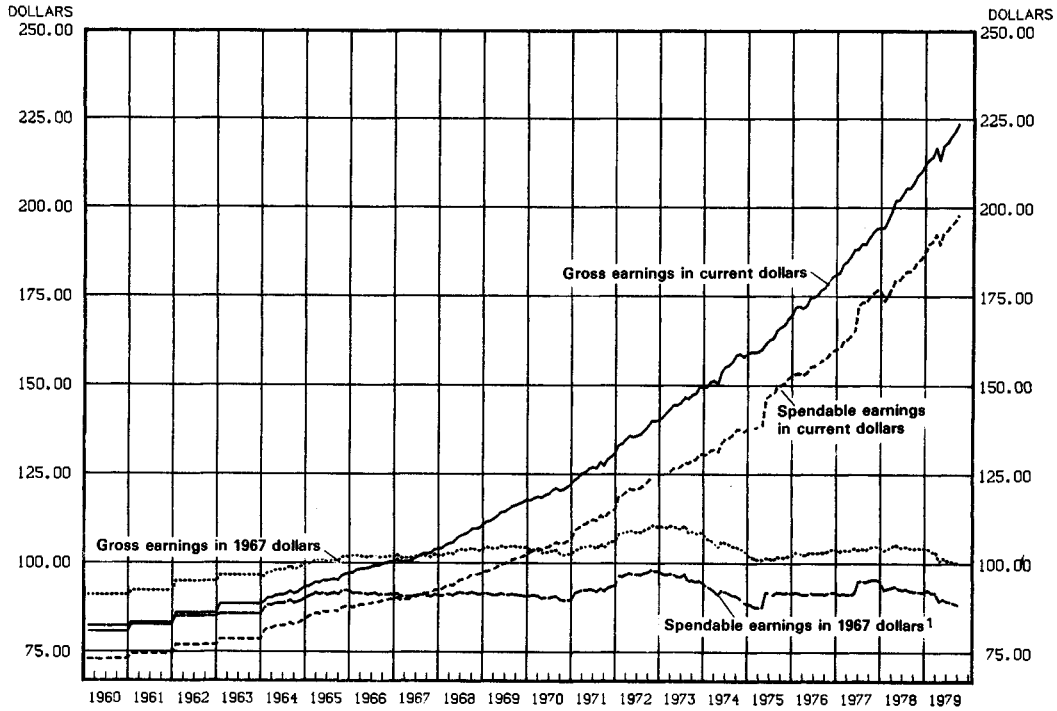


<sup>1</sup>Annual averages prior to 1964.  
NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.

**Chart 16. Total private gross and spendable weekly earnings**

(Seasonally adjusted)



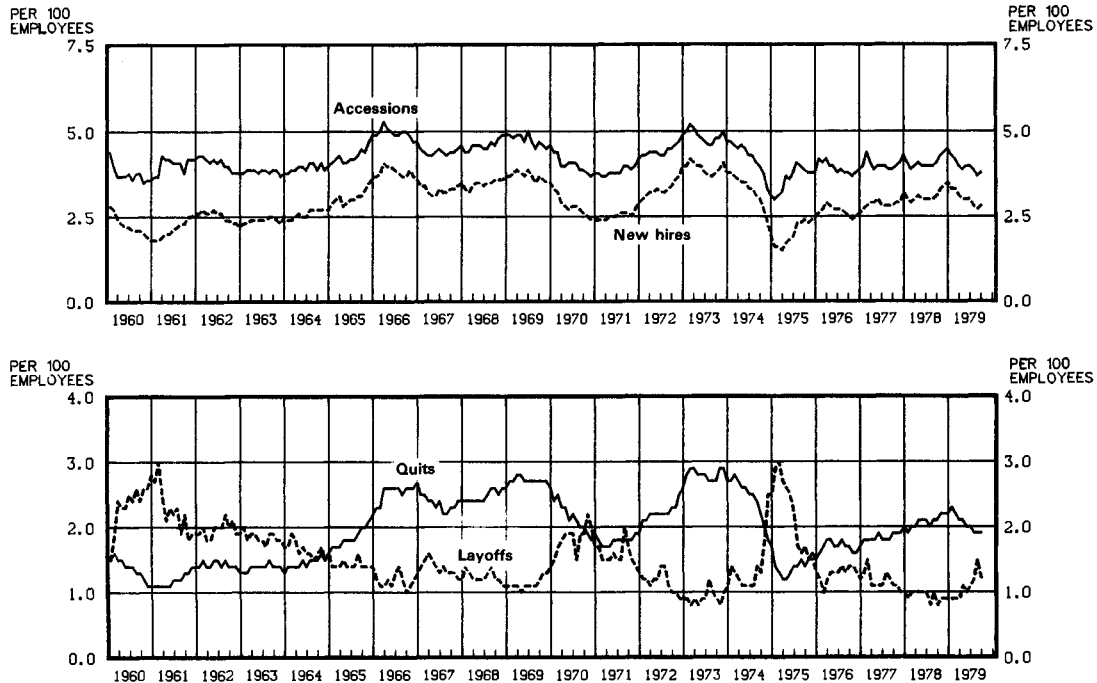
<sup>1</sup> Married worker with three dependents.

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

SOURCE: Table C-9.

**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	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
<b>Annual averages</b>										
<b>TOTAL</b>										
1947.....	103,418	60,941	58.9	59,350	57,028	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	61,296	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	3,248	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.2	42,604
1952.....	108,923	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.....	116,367	70,275	60.4	67,639	65,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,981	73,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960.....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,342	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 <sup>1</sup> .....	122,991	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,529
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 <sup>1</sup> .....	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973.....	148,267	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	82,442	5,076	5.6	57,587
1975.....	153,448	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 <sup>1</sup> .....	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1978:</b>										
October..	161,829	103,199	63.8	101,077	95,241	3,374	91,867	5,836	5.8	58,630
November..	162,033	103,745	64.0	101,628	95,751	3,275	92,476	5,877	5.8	58,288
December..	162,250	103,975	64.1	101,867	95,855	3,387	92,468	6,012	5.9	58,275
<b>1979:</b>										
January..	162,448	104,277	64.2	102,182	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

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

<sup>2</sup> 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	
<b>Annual averages</b>										
<b>MALES</b>										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,962	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	5.2	13,715
1972.....	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 <sup>1</sup> .....	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,589	6.2	16,514
1978 <sup>1</sup> .....	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,674
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1978:</b>										
October..	77,546	60,717	78.3	58,725	55,754	2,707	53,047	2,971	5.1	16,829
November..	77,643	61,006	78.6	59,019	56,096	2,614	53,482	2,923	5.0	16,636
December..	77,746	61,095	78.6	59,116	56,072	2,702	53,370	3,044	5.1	16,651
<b>1979:</b>										
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	2,908	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... <sup>1</sup>	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
<b>Annual averages</b>										
<b>FEMALES</b>										
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 <sup>1</sup> .....	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 <sup>1</sup> .....	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	42,603
1975.....	79,954	37,087	46.4	36,998	33,553	579	32,973	3,445	9.2	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 <sup>1</sup> .....	83,890	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,887
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1978:</b>										
October..	84,283	42,482	50.4	42,352	39,487	667	38,820	2,865	6.8	41,801
November..	84,390	42,738	50.6	42,609	39,655	661	38,994	2,954	6.9	41,652
December..	84,504	42,880	50.7	42,751	39,783	685	39,098	2,968	6.9	41,674
<b>1979:</b>										
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... <sup>1</sup>	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

<sup>1</sup> See footnote 1, table A-1.

<sup>2</sup> 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	October 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					
<b>MALES</b>											
16 years and over	61,544	78.1	59,596	56,840	2,756	4.6	17,261	373	4,474	1,630	10,785
16 to 21 years	8,475	66.7	7,838	6,857	981	12.5	4,240	23	3,787	41	390
16 to 19 years	4,983	59.1	4,718	4,024	694	14.7	3,442	18	3,157	22	244
16 to 17 years	2,010	48.4	1,993	1,672	319	16.0	2,144	15	2,033	7	90
18 to 19 years	2,973	69.6	2,725	2,351	374	13.7	1,297	4	1,124	15	155
20 to 64 years	54,610	90.0	52,927	50,932	1,994	3.8	6,075	150	1,314	1,141	3,471
20 to 24 years	8,946	86.9	8,195	7,522	673	8.2	1,352	10	987	48	306
25 to 54 years	38,450	94.8	37,519	36,352	1,167	3.1	2,112	74	319	600	1,120
25 to 29 years	8,692	95.3	8,328	7,977	351	4.2	425	6	194	42	183
30 to 34 years	7,944	96.7	7,693	7,467	227	2.9	269	6	57	63	143
35 to 39 years	6,419	96.6	6,227	6,042	184	3.0	229	13	40	60	116
40 to 44 years	5,341	95.8	5,252	5,127	125	2.4	236	7	11	81	137
45 to 49 years	5,009	92.7	4,978	4,844	134	2.7	393	27	11	138	218
50 to 54 years	5,047	90.0	5,040	4,995	45	2.9	560	15	7	216	322
55 to 64 years	7,213	73.4	7,212	7,058	155	2.1	2,611	67	7	493	2,044
55 to 59 years	4,443	82.8	4,441	4,249	92	2.1	926	27	3	257	638
60 to 64 years	2,771	62.2	2,771	2,709	62	2.2	1,685	39	4	236	1,406
65 years and over	1,951	20.1	1,951	1,884	68	3.5	7,744	204	3	466	7,070
65 to 69 years	1,125	29.6	1,125	1,078	46	4.1	2,679	62	1	174	2,442
70 years and over	827	14.0	827	806	21	2.6	5,065	142	2	293	4,628
<b>White</b>											
16 years and over	54,630	78.8	53,100	50,971	2,129	4.0	14,730	307	3,571	1,345	9,507
16 to 21 years	7,471	69.2	6,986	6,213	773	11.1	3,321	20	3,003	36	263
16 to 19 years	4,441	62.3	4,240	3,692	548	12.9	2,685	18	2,468	18	181
16 to 17 years	1,844	52.7	1,829	1,564	265	14.5	1,652	13	1,555	7	75
18 to 19 years	2,598	71.5	2,411	2,128	282	11.7	1,034	5	913	11	104
20 to 64 years	48,442	90.5	47,114	45,585	1,529	3.2	5,064	118	1,100	930	2,917
20 to 24 years	7,746	87.6	7,177	6,657	520	7.2	1,099	8	844	38	209
25 to 54 years	34,144	95.4	33,388	32,507	881	2.6	1,637	56	250	466	865
25 to 29 years	14,678	96.6	14,169	13,752	417	3.1	522	10	197	74	240
30 to 34 years	10,469	96.8	10,235	9,996	239	2.3	348	18	39	110	182
35 to 44 years	8,998	92.1	8,964	8,759	205	2.3	767	27	14	283	443
55 to 64 years	6,551	73.8	6,550	6,421	129	2.0	2,328	55	7	425	1,842
55 to 59 years	4,038	83.4	4,036	3,958	78	1.9	801	22	3	213	563
60 to 64 years	2,514	62.2	2,514	2,462	51	2.0	1,528	32	4	212	1,280
65 years and over	1,746	20.0	1,746	1,694	52	3.0	6,980	171	3	397	6,409
<b>Black and other</b>											
16 years and over	6,914	73.2	6,496	5,869	627	9.6	2,531	66	902	285	1,278
16 to 21 years	1,004	52.2	852	644	208	24.4	919	3	784	5	128
16 to 19 years	541	41.7	478	332	146	30.6	757	--	689	4	63
16 to 17 years	167	25.3	164	110	54	32.9	493	1	478	--	13
18 to 19 years	375	58.7	315	222	92	29.3	264	--	211	4	50
20 to 64 years	6,168	85.9	5,812	5,348	464	8.0	1,010	31	213	212	554
20 to 24 years	1,200	82.6	1,019	866	153	15.0	253	2	143	10	97
25 to 54 years	4,306	90.0	4,131	3,845	287	6.9	476	18	70	134	255
25 to 29 years	1,957	91.9	1,833	1,692	141	7.7	172	2	53	31	86
30 to 34 years	1,291	91.7	1,245	1,174	71	5.7	117	2	12	32	72
35 to 44 years	1,058	85.0	1,054	980	74	7.0	187	14	4	71	98
55 to 64 years	662	70.1	662	627	25	3.8	282	12	--	68	202
55 to 59 years	405	76.4	405	391	14	3.5	125	5	--	44	76
60 to 64 years	257	62.1	257	246	11	4.3	157	7	--	24	126
65 years and over	205	21.2	205	189	16	7.6	764	34	--	69	661

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

[Numbers in thousands]

Sex, age, and race	October 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					
<b>FEMALES</b>											
16 years and over .....	44,488	51.9	44,343	41,318	3,026	6.8	41,175	31,313	4,375	1,033	4,454
16 to 21 years .....	7,162	57.5	7,106	6,052	1,054	14.8	5,288	1,272	3,642	20	255
16 to 19 years .....	4,409	53.5	4,385	3,633	752	17.1	3,225	550	3,032	8	235
16 to 17 years .....	1,799	44.8	1,798	1,459	339	18.9	2,221	146	1,964	2	90
18 to 19 years .....	2,609	61.9	2,587	2,175	412	15.9	1,604	405	1,044	7	145
20 to 64 years .....	38,915	61.2	38,794	36,552	2,241	5.8	24,689	20,973	1,327	471	1,914
20 to 24 years .....	7,114	69.2	7,041	6,374	667	9.5	3,171	2,012	880	30	248
25 to 54 years .....	27,111	64.0	27,063	25,644	1,419	5.2	15,230	13,631	429	233	937
25 to 29 years .....	6,281	67.6	6,247	5,812	434	7.0	3,012	2,634	183	23	172
30 to 34 years .....	5,312	63.0	5,302	4,975	327	6.2	3,113	2,819	102	23	170
35 to 39 years .....	4,647	66.5	4,644	4,407	238	5.1	2,342	2,127	66	28	120
40 to 44 years .....	3,861	65.3	3,860	3,701	159	4.1	2,052	1,852	39	24	137
45 to 49 years .....	3,523	61.8	3,522	3,396	126	3.6	2,175	1,977	18	46	132
50 to 54 years .....	3,487	57.9	3,487	3,352	135	3.9	2,538	2,227	21	89	206
55 to 64 years .....	4,690	42.7	4,690	4,535	155	3.3	6,288	5,330	17	204	733
55 to 59 years .....	2,958	50.1	2,958	2,849	109	3.7	2,941	2,534	11	97	299
60 to 64 years .....	1,732	34.1	1,732	1,685	46	2.7	3,347	2,796	6	111	434
65 years and over .....	1,164	8.4	1,164	1,131	33	2.9	12,661	9,790	17	553	2,301
65 to 69 years .....	739	15.6	739	723	16	2.1	4,012	3,257	12	104	636
70 years and over .....	425	4.7	425	408	18	4.2	8,649	6,534	5	444	1,665
<b>White</b>											
16 years and over .....	38,446	51.6	38,335	36,049	2,286	6.0	36,131	28,067	3,506	785	3,774
16 to 21 years .....	6,318	60.3	6,275	5,500	774	12.3	4,162	989	2,908	12	253
16 to 19 years .....	3,935	56.9	3,917	3,353	564	14.4	2,982	428	2,377	6	171
16 to 17 years .....	1,620	48.1	1,619	1,366	254	15.7	1,745	118	1,553	2	73
18 to 19 years .....	2,314	65.2	2,298	1,988	310	13.5	1,237	311	824	4	99
20 to 64 years .....	33,485	60.7	33,393	31,699	1,695	5.1	21,649	18,623	1,112	324	1,590
20 to 24 years .....	6,130	70.5	6,075	5,617	458	7.5	2,564	1,633	735	19	177
25 to 54 years .....	23,184	63.4	23,147	22,038	1,108	4.8	13,400	12,118	362	157	763
25 to 34 years .....	9,769	64.4	9,736	9,167	570	5.9	5,397	4,867	237	32	261
35 to 44 years .....	7,297	65.4	7,294	6,979	314	4.2	3,857	3,512	89	39	218
45 to 54 years .....	6,117	59.6	6,117	5,892	224	3.7	4,145	3,739	35	87	284
55 to 64 years .....	4,172	42.2	4,172	4,043	128	3.1	5,685	4,871	16	148	650
55 to 59 years .....	2,620	49.6	2,620	2,535	85	3.3	2,659	2,309	11	67	272
60 to 64 years .....	1,551	33.9	1,551	1,508	43	2.8	3,027	2,562	5	81	378
65 years and over .....	1,026	8.2	1,026	997	28	2.8	11,500	9,016	16	455	2,013
<b>Black and other</b>											
16 years and over .....	6,042	54.5	6,008	5,268	740	12.3	5,044	3,246	870	248	680
16 to 21 years .....	845	42.9	832	552	280	23.6	1,126	282	733	8	103
16 to 19 years .....	474	36.0	469	280	188	40.2	843	122	655	3	63
16 to 17 years .....	179	27.4	179	92	86	47.9	476	28	431	--	18
18 to 19 years .....	295	44.6	290	187	103	35.5	367	94	224	3	46
20 to 64 years .....	5,429	64.1	5,401	4,854	546	10.1	3,039	2,350	214	147	328
20 to 24 years .....	983	61.8	966	758	209	21.6	607	379	146	11	71
25 to 54 years .....	3,928	68.2	3,916	3,605	311	7.9	1,831	1,512	68	76	174
25 to 34 years .....	1,823	71.5	1,813	1,621	192	10.6	728	585	47	14	80
35 to 44 years .....	1,212	69.3	1,211	1,129	82	6.8	536	467	16	14	40
45 to 54 years .....	893	61.2	892	856	37	4.1	567	460	4	48	54
55 to 64 years .....	518	46.3	518	492	27	5.1	602	459	1	60	83
55 to 59 years .....	338	54.5	338	315	23	6.9	282	225	--	30	27
60 to 64 years .....	180	36.0	180	177	3	1.8	320	234	1	30	56
65 years and over .....	139	10.7	139	134	5	3.6	1,162	774	1	98	288

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979
<b>MALES</b>								
16 years and over	60,678	61,544	78.2	78.1	58,685	59,596	77.7	77.5
16 to 19 years	5,190	4,983	61.3	59.1	4,897	4,718	59.9	57.8
16 to 17 years	2,089	2,010	49.5	48.4	2,066	1,992	49.2	48.2
18 to 19 years	3,101	2,973	73.0	69.6	2,831	2,725	71.2	67.7
20 to 24 years	8,770	8,946	86.3	86.9	8,013	8,195	85.1	85.8
25 to 54 years	37,586	38,450	94.5	94.8	36,644	37,519	94.4	94.7
25 to 34 years	16,032	16,635	95.5	96.0	15,414	16,021	95.4	95.8
35 to 44 years	11,413	11,760	96.1	96.2	11,128	11,480	96.0	96.1
45 to 54 years	10,141	10,056	91.4	91.3	10,102	10,018	91.3	91.3
55 to 64 years	7,144	7,213	73.7	73.4	7,142	7,212	73.7	73.4
55 to 59 years	4,386	4,443	82.5	82.8	4,385	4,441	82.5	82.7
60 to 64 years	2,758	2,771	63.0	62.2	2,757	2,771	63.0	62.2
65 years and over	1,989	1,951	21.0	20.1	1,989	1,951	21.0	20.1
<b>White</b>								
16 years and over	53,976	54,630	79.0	78.8	52,375	53,100	78.4	78.3
16 to 19 years	4,632	4,441	64.5	62.2	4,402	4,240	63.3	61.2
16 to 17 years	1,906	1,844	53.5	52.7	1,888	1,829	53.3	52.6
18 to 19 years	2,726	2,598	75.4	71.5	2,514	2,411	73.8	70.0
20 to 24 years	7,640	7,746	87.2	87.6	7,049	7,177	86.3	86.7
25 to 54 years	33,425	34,144	95.1	95.4	32,647	33,388	95.0	95.3
25 to 34 years	14,169	14,678	96.0	96.6	13,667	14,189	95.9	96.5
35 to 44 years	10,154	10,469	96.6	96.8	9,914	10,235	96.6	96.7
45 to 54 years	9,101	8,998	92.2	92.1	9,066	8,964	92.2	92.1
55 to 64 years	6,508	6,551	74.2	73.8	6,506	6,550	74.2	73.8
55 to 59 years	3,983	4,038	83.1	83.4	3,982	4,036	83.1	83.4
60 to 64 years	2,524	2,514	63.5	62.2	2,524	2,514	63.5	62.2
65 years and over	1,771	1,746	20.8	20.0	1,771	1,746	20.8	20.0
<b>Black and other</b>								
16 years and over	6,702	6,914	73.0	73.2	6,310	6,496	71.8	72.0
16 to 19 years	558	541	43.4	41.7	496	478	40.5	38.7
16 to 17 years	182	167	27.8	25.2	178	164	27.3	24.9
18 to 19 years	375	375	59.8	58.7	317	315	55.6	54.4
20 to 24 years	1,130	1,200	80.2	82.6	964	1,019	77.5	80.1
25 to 54 years	4,161	4,306	90.0	90.0	3,997	4,131	89.6	89.7
25 to 34 years	1,862	1,957	91.8	91.9	1,747	1,833	91.3	91.4
35 to 44 years	1,259	1,291	92.2	91.7	1,214	1,245	91.9	91.4
45 to 54 years	1,040	1,058	84.6	85.0	1,036	1,054	84.5	85.0
55 to 64 years	636	662	68.8	70.1	636	662	68.8	70.1
55 to 59 years	403	405	76.9	76.4	403	405	76.9	76.4
60 to 64 years	233	257	58.3	62.1	233	257	58.3	62.1
65 years and over	217	205	23.1	21.2	217	205	23.1	21.2



## 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	
	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979
<b>FEMALES</b>								
16 years and over . . . . .	42,999	44,488	51.0	51.9	42,870	44,343	50.9	51.9
16 to 19 years . . . . .	4,388	4,409	52.0	53.5	4,367	4,385	52.8	53.4
16 to 17 years . . . . .	1,845	1,799	45.1	44.8	1,844	1,798	45.1	44.7
18 to 19 years . . . . .	2,543	2,609	60.6	61.9	2,523	2,587	60.4	61.7
20 to 24 years . . . . .	7,067	7,114	69.6	69.2	7,000	7,041	69.4	69.0
25 to 54 years . . . . .	25,961	27,111	62.5	64.0	25,919	27,063	62.5	64.0
25 to 34 years . . . . .	11,071	11,592	64.5	65.4	11,035	11,540	64.5	65.3
35 to 44 years . . . . .	7,894	8,509	63.0	65.9	7,891	8,505	63.0	65.9
45 to 54 years . . . . .	6,995	7,010	59.0	59.8	6,994	7,009	59.0	59.8
55 to 64 years . . . . .	4,503	4,690	41.6	42.7	4,503	4,690	41.6	42.7
55 to 59 years . . . . .	2,836	2,958	48.5	50.1	2,836	2,958	48.5	50.1
60 to 64 years . . . . .	1,667	1,732	33.4	34.1	1,667	1,732	33.4	34.1
65 years and over . . . . .	1,080	1,164	8.0	8.4	1,080	1,164	8.0	8.4
<b>White</b>								
16 years and over . . . . .	37,202	38,446	50.6	51.6	37,099	38,335	50.5	51.5
16 to 19 years . . . . .	3,920	3,935	56.2	56.9	3,903	3,917	56.1	56.8
16 to 17 years . . . . .	1,683	1,620	49.0	48.1	1,682	1,619	49.0	48.1
18 to 19 years . . . . .	2,238	2,314	63.1	65.2	2,222	2,298	63.0	65.0
20 to 24 years . . . . .	6,082	6,130	70.7	70.5	6,029	6,075	70.5	70.3
25 to 54 years . . . . .	22,232	23,184	61.8	63.4	22,200	23,147	61.8	63.3
25 to 34 years . . . . .	9,364	9,769	63.6	64.4	9,335	9,736	63.5	64.3
35 to 44 years . . . . .	6,745	7,297	62.3	65.4	6,742	7,294	62.3	65.4
45 to 54 years . . . . .	6,124	6,117	58.8	59.6	6,123	6,117	58.8	59.6
55 to 64 years . . . . .	4,035	4,172	41.4	42.3	4,034	4,172	41.4	42.3
55 to 59 years . . . . .	2,542	2,620	48.5	49.6	2,542	2,620	48.5	49.6
60 to 64 years . . . . .	1,493	1,551	33.2	33.9	1,493	1,551	33.2	33.9
65 years and over . . . . .	932	1,026	7.6	8.2	932	1,026	7.6	8.2
<b>Black and other</b>								
16 years and over . . . . .	5,798	6,042	53.8	54.5	5,771	6,008	53.7	54.4
16 to 19 years . . . . .	468	474	35.7	36.0	464	469	35.5	35.7
16 to 17 years . . . . .	163	179	24.8	27.4	162	179	24.7	27.3
18 to 19 years . . . . .	305	295	46.6	44.6	302	290	46.3	44.1
20 to 24 years . . . . .	985	982	63.6	61.8	971	966	63.3	61.4
25 to 54 years . . . . .	3,728	3,928	67.0	68.2	3,720	3,916	66.9	68.1
25 to 34 years . . . . .	1,708	1,823	70.2	71.5	1,700	1,813	70.1	71.4
35 to 44 years . . . . .	1,149	1,212	67.9	69.3	1,149	1,211	67.9	69.3
45 to 54 years . . . . .	871	893	60.5	61.2	871	892	60.5	61.2
55 to 64 years . . . . .	469	518	43.0	46.3	469	518	43.0	46.3
55 to 59 years . . . . .	294	338	48.4	54.5	294	338	48.4	54.5
60 to 64 years . . . . .	175	180	36.2	36.0	175	180	36.2	36.0
65 years and over . . . . .	148	139	11.7	10.7	148	139	11.7	10.7

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

[Numbers in thousands]

Sex and age	October 1979						Not in labor force
	Civilian labor force					Percent of labor force	
	Total	Employed			Unemployed		
		Total	Agri-culture	Nonagri-cultural industries			
<b>TOTAL</b>							
16 years and over .....	10,596	9,349	245	9,104	1,247	11.8	6,554
16 to 19 years .....	802	491	15	476	311	38.8	1,422
16 to 17 years .....	281	151	5	146	130	46.2	873
18 to 19 years .....	521	340	9	331	181	34.8	549
20 to 24 years .....	1,706	1,370	24	1,335	337	19.7	736
25 to 54 years .....	6,769	6,228	143	6,086	540	8.0	1,908
25 to 34 years .....	3,045	2,745	63	2,682	300	9.8	710
35 to 44 years .....	2,091	1,949	37	1,912	142	6.8	543
45 to 54 years .....	1,633	1,534	43	1,491	99	6.1	655
55 to 64 years .....	1,015	970	32	938	45	4.4	802
55 to 59 years .....	623	590	13	576	34	5.4	371
60 to 64 years .....	391	380	18	362	11	2.8	431
65 years and over .....	305	291	23	268	14	4.6	1,685
<b>Males</b>							
16 years and over .....	5,504	4,932	219	4,715	572	10.4	2,184
16 to 19 years .....	406	268	14	254	138	34.0	668
16 to 17 years .....	131	81	5	76	51	38.9	446
18 to 19 years .....	274	187	8	179	87	31.8	222
20 to 24 years .....	882	739	32	706	144	16.3	201
25 to 54 years .....	3,478	3,220	124	3,098	256	7.4	399
25 to 34 years .....	1,530	1,405	53	1,352	125	8.2	130
35 to 44 years .....	1,055	988	31	957	67	6.4	104
45 to 54 years .....	893	828	40	788	65	7.3	165
55 to 64 years .....	562	539	28	511	24	4.3	265
55 to 59 years .....	339	326	10	315	14	4.1	121
60 to 64 years .....	222	213	17	196	9	4.1	144
65 years and over .....	177	167	22	145	11	6.2	650
<b>Females</b>							
16 years and over .....	5,092	4,417	27	4,389	675	13.3	4,370
16 to 19 years .....	396	223	1	222	173	43.7	754
16 to 17 years .....	150	70	--	70	79	53.0	427
18 to 19 years .....	247	153	1	152	94	38.1	327
20 to 24 years .....	824	631	2	629	193	23.4	535
25 to 54 years .....	3,291	3,008	19	2,988	284	8.6	1,509
25 to 34 years .....	1,515	1,340	10	1,330	175	11.6	580
35 to 44 years .....	1,036	961	6	955	75	7.2	439
45 to 54 years .....	740	706	3	703	34	4.6	490
55 to 64 years .....	452	431	4	427	21	4.7	537
55 to 59 years .....	284	264	2	261	20	6.9	250
60 to 64 years .....	169	167	1	166	2	1.1	287
65 years and over .....	128	124	1	123	3	2.6	1,035

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	
	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979
<b>TOTAL</b>								
Total noninstitutional population	161,829	164,468	69,081	70,380	75,998	77,429	16,750	16,659
Total labor force	103,677	106,032	55,488	56,561	38,611	40,079	9,578	9,392
Percent of population	64.1	64.5	80.3	80.4	50.8	51.8	57.2	56.4
Civilian labor force	101,555	103,939	53,788	54,878	38,503	39,958	9,264	9,103
Employed	96,095	98,158	51,889	52,816	36,372	37,684	7,834	7,658
Agriculture	3,553	3,467	2,462	2,472	690	654	402	341
Nonagricultural industries	92,541	94,691	49,428	50,344	35,682	37,030	7,432	7,316
Unemployed	5,460	5,781	1,899	2,062	2,131	2,274	1,431	1,445
Percent of labor force	5.4	5.6	3.5	3.8	5.5	5.7	15.4	15.9
Not in labor force	58,152	58,436	13,593	13,819	37,387	37,350	7,172	7,267
<b>White</b>								
Total noninstitutional population	141,873	143,937	61,185	62,233	66,534	67,660	14,154	14,044
Total labor force	91,178	93,076	49,343	50,188	33,282	34,511	8,553	8,376
Percent of population	64.3	64.7	80.6	80.6	50.0	51.0	60.4	59.6
Civilian labor force	89,475	91,435	47,974	48,860	33,196	34,419	8,305	8,156
Employed	85,297	87,020	46,503	47,279	31,592	32,696	7,201	7,046
Agriculture	3,196	3,156	2,180	2,221	642	613	374	321
Nonagricultural industries	82,101	83,864	44,324	45,057	30,950	32,082	6,827	6,724
Unemployed	4,178	4,415	1,470	1,581	1,604	1,723	1,104	1,111
Percent of labor force	4.7	4.8	3.1	3.2	4.8	5.0	13.3	13.6
Not in labor force	50,696	50,861	11,842	12,044	33,252	33,149	5,602	5,667
<b>Black and other</b>								
Total noninstitutional population	19,955	20,531	7,896	8,147	9,464	9,769	2,595	2,615
Total labor force	12,500	12,956	6,144	6,373	5,330	5,568	1,025	1,015
Percent of population	62.6	63.1	77.8	78.2	56.3	57.0	39.5	38.8
Civilian labor force	12,080	12,504	5,814	6,017	5,207	5,540	959	947
Employed	10,798	11,137	5,386	5,537	4,780	4,988	632	612
Agriculture	358	311	282	250	48	41	27	20
Nonagricultural industries	10,440	10,826	5,104	5,287	4,732	4,948	605	592
Unemployed	1,282	1,366	428	480	527	551	327	335
Percent of labor force	10.6	10.9	7.4	8.0	9.9	10.0	34.1	35.3
Not in labor force	7,456	7,575	1,751	1,774	4,135	4,201	1,570	1,600

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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	October 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
<b>TOTAL</b>									
Total noninstitutional population .....	25,166	12,715	12,451	21,272	10,792	10,480	3,894	1,923	1,971
Total labor force .....	15,627	8,475	7,162	13,789	7,471	6,318	1,849	1,004	845
Percent of population .....	62.1	66.7	57.5	64.8	69.2	60.3	47.5	52.2	42.9
Civilian labor force .....	14,944	7,838	7,106	13,261	6,986	6,275	1,683	852	832
Employed .....	12,909	6,857	6,052	11,713	6,213	5,500	1,195	644	552
Agriculture .....	492	411	81	453	277	76	39	34	5
Nonagricultural industries .....	12,417	6,446	5,971	11,261	5,836	5,425	1,156	610	546
Unemployed .....	2,035	981	1,054	1,547	773	774	488	208	280
Looking for full-time work .....	1,150	561	589	846	428	417	305	133	172
Looking for part-time work .....	885	420	465	702	345	357	183	75	108
Percent of labor force .....	13.6	12.5	14.8	11.7	11.1	12.2	29.0	24.4	33.6
Not in labor force .....	9,528	4,240	5,288	7,483	3,321	4,162	2,045	919	1,126
<b>Major activity: going to school</b>									
Civilian labor force .....	4,509	2,297	2,211	4,050	2,073	1,977	459	224	234
Employed .....	3,672	1,872	1,800	3,420	1,735	1,685	252	137	115
Agriculture .....	171	149	21	164	146	18	6	4	2
Nonagricultural industries .....	3,501	1,723	1,779	3,256	1,589	1,666	246	133	112
Unemployed .....	837	425	411	630	338	292	206	87	119
Looking for full-time work .....	64	29	35	29	16	13	35	14	21
Looking for part-time work .....	773	396	377	601	323	279	171	73	98
Percent of labor force .....	18.6	18.5	18.6	15.6	16.3	14.8	45.0	38.9	50.9
Not in labor force .....	7,428	3,787	3,642	5,911	3,003	2,908	1,517	784	733
<b>Major activity: other</b>									
Civilian labor force .....	10,435	5,540	4,895	9,211	4,913	4,298	1,225	627	597
Employed .....	9,237	4,985	4,252	8,294	4,478	3,816	943	507	437
Agriculture .....	321	261	60	288	231	57	33	30	2
Nonagricultural industries .....	8,916	4,723	4,192	8,005	4,247	3,758	911	476	434
Unemployed .....	1,198	556	643	917	435	482	281	121	161
Looking for full-time work .....	1,086	532	555	817	413	404	269	119	151
Looking for part-time work .....	112	24	88	100	22	78	12	2	10
Percent of labor force .....	11.5	10.0	13.1	10.0	8.9	11.2	23.0	19.3	26.9
Not in labor force .....	2,100	453	1,647	1,572	318	1,254	528	135	393

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

[Numbers in thousands]

Race, sex, and age	October 1979								
	Full-time labor force					Part-time labor force			
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time <sup>1</sup>	Unemployed (looking for part-time work)	
		Full-time schedules <sup>1</sup>	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
<b>TOTAL</b>									
Both sexes, 16 years and over.....	87,923	80,483	3,144	4,296	4.9	16,016	14,531	1,486	9.3
16 to 21 years.....	9,054	7,153	745	1,150	12.7	5,890	5,005	885	15.0
16 to 19 years.....	4,380	3,235	461	684	15.6	4,723	3,962	762	16.1
16 to 17 years.....	670	412	116	141	21.1	3,121	2,604	517	16.6
18 to 19 years.....	3,710	2,823	345	542	14.6	1,602	1,358	245	15.3
20 years and over.....	83,543	77,247	2,683	3,612	4.3	11,293	10,569	724	6.4
20 to 24 years.....	13,023	11,313	625	1,085	8.3	2,213	1,959	254	11.5
25 years and over.....	70,519	65,935	2,057	2,527	3.6	9,080	8,611	470	5.2
25 to 54 years.....	58,451	54,558	1,656	2,238	3.8	6,130	5,782	348	5.7
55 years and over.....	12,068	11,377	402	289	2.4	2,949	2,829	121	4.1
<b>Males, 16 years and over.....</b>	<b>54,352</b>	<b>50,776</b>	<b>1,379</b>	<b>2,197</b>	<b>4.0</b>	<b>5,243</b>	<b>4,685</b>	<b>558</b>	<b>10.6</b>
16 to 21 years.....	5,016	4,122	333	561	11.2	2,822	2,402	420	14.9
16 to 19 years.....	2,383	1,846	211	326	13.7	2,335	1,968	368	15.7
20 years and over.....	51,970	48,930	1,168	1,871	3.6	2,908	2,718	191	6.6
20 to 24 years.....	7,303	6,440	301	562	7.7	892	781	111	12.4
25 years and over.....	44,667	42,490	868	1,310	2.9	2,016	1,936	80	4.0
25 to 54 years.....	36,713	34,906	664	1,143	3.1	806	782	24	3.0
55 years and over.....	7,954	7,584	202	166	2.1	1,209	1,154	55	4.5
<b>Females, 16 years and over.....</b>	<b>33,570</b>	<b>29,707</b>	<b>1,765</b>	<b>2,099</b>	<b>6.3</b>	<b>10,773</b>	<b>9,846</b>	<b>927</b>	<b>8.6</b>
16 to 21 years.....	4,038	3,036	412	589	14.6	3,069	2,604	465	15.1
16 to 19 years.....	1,997	1,390	250	358	17.9	2,388	1,994	394	16.5
20 years and over.....	31,573	28,317	1,515	1,741	5.5	8,385	7,852	533	6.4
20 to 24 years.....	5,720	4,873	324	523	9.1	1,321	1,177	143	10.9
25 years and over.....	25,853	23,445	1,191	1,217	4.7	7,064	6,675	389	5.5
25 to 54 years.....	21,739	19,654	991	1,094	5.0	5,324	5,000	324	6.1
55 years and over.....	4,114	3,791	200	123	3.0	1,740	1,675	65	3.7
<b>White</b>									
<b>Males, 16 years and over.....</b>	<b>48,424</b>	<b>45,603</b>	<b>1,145</b>	<b>1,676</b>	<b>3.5</b>	<b>4,676</b>	<b>4,223</b>	<b>453</b>	<b>9.7</b>
16 to 21 years.....	4,434	3,723	283	428	9.7	2,552	2,207	345	13.5
16 to 19 years.....	2,126	1,697	182	248	11.7	2,114	1,814	300	14.2
20 years and over.....	46,298	43,907	963	1,428	3.1	2,563	2,409	153	6.0
20 to 24 years.....	6,376	5,711	239	427	6.7	800	707	93	11.6
25 years and over.....	39,922	38,196	724	1,002	2.5	1,763	1,701	61	3.5
25 to 54 years.....	32,704	31,282	556	865	2.6	684	668	16	2.3
55 years and over.....	7,218	6,914	168	136	1.9	1,079	1,033	45	4.2
<b>Females, 16 years and over.....</b>	<b>28,534</b>	<b>25,572</b>	<b>1,428</b>	<b>1,533</b>	<b>5.4</b>	<b>9,802</b>	<b>9,048</b>	<b>753</b>	<b>7.7</b>
16 to 21 years.....	3,500	2,738	344	417	11.9	2,774	2,418	357	12.9
16 to 19 years.....	1,763	1,287	211	264	15.0	2,154	1,855	299	13.9
20 years and over.....	26,771	24,285	1,217	1,268	4.7	7,648	7,194	454	5.9
20 to 24 years.....	4,868	4,253	272	342	7.0	1,207	1,091	116	9.6
25 years and over.....	21,903	20,033	945	926	4.2	6,441	6,103	338	5.2
25 to 54 years.....	18,240	16,627	791	821	4.5	4,907	4,621	286	5.8
55 years and over.....	3,664	3,406	154	105	2.9	1,534	1,482	52	3.4
<b>Black and other</b>									
<b>Males, 16 years and over.....</b>	<b>5,929</b>	<b>5,172</b>	<b>235</b>	<b>522</b>	<b>8.8</b>	<b>567</b>	<b>462</b>	<b>105</b>	<b>18.5</b>
16 to 21 years.....	582	399	50	133	22.8	270	195	75	27.9
16 to 19 years.....	257	149	29	78	30.5	222	154	68	30.7
20 years and over.....	5,672	5,023	205	443	7.8	345	308	37	10.8
20 to 24 years.....	927	730	62	135	14.6	92	74	18	19.4
25 years and over.....	4,745	4,294	143	308	6.5	254	235	19	7.5
25 to 54 years.....	4,010	3,623	108	277	6.9	122	114	8	6.6
55 years and over.....	736	671	35	31	4.2	131	121	10	7.6
<b>Females, 16 years and over.....</b>	<b>5,037</b>	<b>4,135</b>	<b>336</b>	<b>566</b>	<b>11.2</b>	<b>971</b>	<b>797</b>	<b>174</b>	<b>17.9</b>
16 to 21 years.....	537	298	68	172	32.0	294	186	108	36.7
16 to 19 years.....	234	102	39	93	39.9	235	139	95	40.5
20 years and over.....	4,803	4,033	298	472	9.8	737	658	79	10.7
20 to 24 years.....	853	620	52	181	21.2	114	86	28	24.3
25 years and over.....	3,950	3,413	246	291	7.4	623	572	51	8.2
25 to 54 years.....	3,499	3,027	200	273	7.8	417	379	38	9.1
55 years and over.....	451	387	46	18	4.0	206	193	13	6.3

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

# HOUSEHOLD DATA

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

(Numbers in thousands)

Family relationship	October 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					
<b>Total, 16 years and over</b>	103,939	64.0	98,158	5,781	5.6	58,436	31,686	8,849	2,662	15,239
<b>Husbands<sup>1</sup></b>	41,206	81.5	40,193	1,013	2.5	9,375	168	215	1,081	7,910
With employed wife	21,406	92.2	20,951	455	2.1	1,822	46	114	337	1,324
With unemployed wife	1,185	93.8	1,084	101	8.5	79	1	8	19	50
With wife not in labor force	16,897	70.8	16,521	376	2.2	6,969	95	60	665	6,149
<b>Wives</b>	24,491	50.6	23,227	1,264	5.2	23,866	21,594	334	241	1,697
With employed husband	22,034	57.1	20,950	1,083	4.9	16,522	15,299	291	76	855
With unemployed husband	556	59.7	455	101	18.2	376	345	16	10	6
With husband not in labor force	1,901	21.4	1,822	79	4.2	6,969	5,950	27	155	837
<b>Relatives in husband-wife families</b>	13,812	60.1	12,248	1,564	11.3	9,181	1,427	6,056	349	1,350
16-19 years	6,371	54.9	5,449	922	14.5	5,228	168	4,755	14	292
20-24 years	4,740	73.9	4,304	436	9.2	1,677	200	1,195	45	237
25 years and over	2,701	54.3	2,495	206	7.6	2,276	1,059	106	290	821
<b>Women who head families</b>	5,073	60.3	4,635	438	8.6	3,346	2,632	106	159	449
<b>Relatives in female-headed families</b>	4,175	56.2	3,477	699	16.7	3,255	807	1,443	262	743
16-19 years	1,368	49.2	1,023	345	25.2	1,410	81	1,190	14	126
20-24 years	1,240	72.3	1,024	217	17.5	474	96	224	14	140
25 years and over	1,567	53.4	1,430	137	8.7	1,371	630	29	234	477
<b>Persons not living in families<sup>2</sup></b>	15,182	61.7	14,378	803	5.3	9,413	5,058	695	570	3,090

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

<sup>2</sup> 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	
	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979
<b>Total, 16 years and over</b>	2,640	2,756	4.5	4.6	2,920	3,026	6.6	6.8
Married, spouse present	863	975	2.2	2.4	1,266	1,307	5.3	5.3
Widowed, divorced, or separated	298	313	6.4	6.4	502	537	6.3	6.5
Single (never married)	1,479	1,468	10.6	10.3	1,053	1,181	9.7	10.5
<b>White, 16 years and over</b>	2,059	2,129	3.9	4.0	2,118	2,286	5.7	6.0
Married, spouse present	726	805	2.0	2.2	1,083	1,106	5.0	5.0
Widowed, divorced, or separated	225	224	5.9	5.7	342	374	5.3	5.6
Single (never married)	1,109	1,100	9.1	8.9	693	806	7.6	8.5
<b>Black and other, 16 years and over</b>	580	627	9.2	9.6	702	740	12.2	12.3
Married, spouse present	137	170	3.8	4.7	183	201	7.4	7.8
Widowed, divorced, or separated	73	80	8.3	9.4	159	163	10.0	9.9
Single (never married)	371	368	19.9	18.9	360	375	21.1	21.3
<b>Total, 20 to 64 years of age</b>	1,843	1,994	3.6	3.8	2,090	2,241	5.6	5.8
Married, spouse present	802	917	2.1	2.4	1,176	1,204	5.1	5.0
Widowed, divorced, or separated	276	288	6.3	6.2	468	510	6.3	6.7
Single (never married)	764	790	8.2	8.1	446	527	6.5	7.3
<b>White, 20 to 64 years of age</b>	1,422	1,529	3.1	3.2	1,568	1,695	4.9	5.1
Married, spouse present	670	756	1.9	2.2	1,000	1,015	4.8	4.7
Widowed, divorced, or separated	209	205	5.9	5.5	316	352	5.4	5.8
Single (never married)	543	569	6.8	6.9	252	327	4.5	5.5
<b>Black and other, 20 to 64 years of age</b>	420	464	7.5	8.0	522	546	10.1	10.1
Married, spouse present	132	161	3.9	4.7	176	189	7.3	7.5
Widowed, divorced, or separated	67	83	8.0	9.2	152	158	10.1	10.1
Single (never married)	221	222	16.2	15.1	194	200	15.3	15.2

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979
Total, 16 years and over	5,460	5,781	5.4	5.6	4.5	4.6	6.6	6.8
White-collar workers	1,622	1,814	3.3	3.5	2.0	2.2	4.3	4.7
Professional and technical	399	423	2.7	2.7	1.9	1.8	3.6	3.8
Managers and administrators, except farm	172	236	1.7	2.2	1.4	1.6	2.7	3.8
Sales workers	244	234	3.9	3.6	2.6	2.6	5.5	4.8
Clerical workers	808	920	4.4	4.9	3.2	3.7	4.7	5.2
Blue-collar workers	2,005	2,191	5.9	6.3	5.4	5.7	8.0	8.9
Craft and kindred workers	527	535	4.0	3.9	3.9	3.9	5.5	3.9
Carpenters and other construction craft	274	267	6.7	6.3	6.6	6.3	(1)	(1)
All other	253	268	2.8	2.9	2.6	2.8	4.8	3.5
Operatives, except transport	808	982	6.7	8.1	5.6	6.8	8.4	10.0
Transport equipment operatives	150	176	4.0	4.7	3.8	4.9	6.0	2.3
Nonfarm laborers	520	497	10.0	9.7	10.1	9.6	10.0	10.4
Construction laborers	160	139	15.2	12.8	14.7	12.3	(1)	(1)
All other	360	358	8.7	8.8	8.8	8.7	8.3	9.1
Service workers	975	965	7.0	6.9	6.2	6.4	7.4	7.2
Private household	68	61	5.5	5.1	(1)	(1)	5.2	5.2
All other	908	904	7.2	7.1	6.2	6.4	7.8	7.5
Farm workers	114	102	3.7	3.5	2.5	2.7	8.3	6.8
No previous work experience	744	711	--	--	--	--	--	--
16 to 19 years	528	519	--	--	--	--	--	--
20 to 24 years	121	116	--	--	--	--	--	--
25 years and over	86	76	--	--	--	--	--	--

<sup>1</sup> 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	
	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979
Total, 16 years and over	100.0	100.0	5.4	5.6	4.5	4.6	6.6	6.8
Nonagricultural private wage and salary workers	70.9	72.6	5.2	5.5	4.5	4.8	6.2	6.5
Mining	.5	.9	2.0	5.5	3.2	5.8	(1)	2.9
Construction	7.7	7.0	8.6	7.7	8.7	7.7	7.1	7.2
Manufacturing	19.1	22.2	4.6	5.6	3.3	4.4	7.4	7.9
Durable goods	10.2	12.2	4.1	5.1	3.2	4.5	6.8	6.6
Lumber and wood products	.6	.6	4.7	4.8	5.0	5.0	(1)	3.8
Furniture and fixtures	.7	.4	6.6	3.6	5.4	2.7	8.9	5.5
Stone, clay, and glass products	.4	.7	3.1	5.5	2.7	5.4	4.4	5.9
Primary metal industries	1.1	1.2	4.6	5.4	3.8	5.2	10.1	6.8
Fabricated metal products	1.3	1.3	4.5	4.8	3.5	4.1	8.3	7.4
Machinery, except electrical equipment	1.4	1.9	2.8	4.1	2.1	4.0	5.6	4.5
Electrical equipment	2.2	1.9	5.2	4.5	3.4	3.3	7.7	6.0
Transportation equipment	1.4	2.5	3.3	6.2	2.9	5.8	5.1	8.2
Automobiles	.7	1.7	3.0	7.7	3.0	6.9	2.9	11.5
Other transportation equipment	.7	.8	3.7	4.5	2.7	4.5	8.6	4.2
Instruments and related products	.4	.6	4.3	6.1	1.4	4.4	8.4	8.2
Other durable goods industries	.7	1.0	5.1	7.4	5.0	5.4	5.2	9.4
Nondurable goods	9.0	10.0	5.3	6.3	3.5	4.2	7.9	9.0
Food and kindred products	2.2	2.8	5.9	8.2	4.5	5.5	9.1	13.4
Textile mill products	.9	.7	5.4	4.6	4.1	3.3	6.9	6.0
Apparel and other textile products	2.1	2.5	8.0	10.3	9.1	8.3	7.7	10.8
Paper and allied products	.6	.5	4.6	3.9	2.2	2.6	12.0	7.8
Printing and publishing	1.3	.8	5.0	3.2	2.2	3.3	9.1	3.1
Chemicals and allied products	.5	1.0	2.4	4.5	1.3	3.0	5.4	8.2
Rubber and plastics products	.5	.8	4.0	6.2	3.5	5.0	4.6	8.7
Other nondurable goods industries	.8	.8	6.4	7.1	4.9	4.4	8.6	10.6
Transportation and public utilities	3.1	3.4	3.2	3.5	2.9	3.2	4.3	4.4
Railroads and railway express	.2	.2	1.7	2.0	1.6	1.9	(1)	(1)
Other transportation	2.1	2.2	4.4	5.0	4.3	5.0	4.9	4.9
Communication and other public utilities	.8	.9	2.1	2.3	1.2	1.3	3.8	4.1
Wholesale and retail trade	21.7	20.1	6.4	6.2	5.2	4.8	7.8	7.7
Finance, insurance, and real estate	2.6	2.7	2.8	2.9	2.3	2.2	3.1	3.4
Service industries	16.1	16.4	5.2	5.6	4.9	5.2	5.4	5.8
Professional services	7.4	7.2	4.1	4.2	3.9	3.4	4.2	4.5
All other service industries	8.7	9.3	6.6	7.5	5.7	6.7	7.4	8.1
Agricultural wage and salary workers	2.4	2.2	8.0	8.2	5.8	6.9	15.4	13.0
All other classes of workers	13.1	12.8	2.9	2.9	2.4	2.2	3.5	3.8
No previous work experience	13.6	12.3	--	--	--	--	--	--

<sup>1</sup> 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	
	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979
<b>UNEMPLOYMENT LEVEL</b>												
Total unemployed, in thousands.....	5,460	5,781	1,899	2,062	2,131	2,274	1,431	1,445	4,178	4,415	1,283	1,366
Job losers.....	2,109	2,380	1,136	1,309	697	798	275	273	1,583	1,820	526	560
On layoff.....	460	655	216	352	193	237	51	66	363	520	97	134
Other job losers.....	1,649	1,725	920	957	504	561	224	207	1,220	1,300	429	426
Job leavers.....	868	882	297	313	382	358	189	210	735	741	133	141
Reentrants.....	1,741	1,808	396	387	907	977	437	444	1,363	1,356	378	452
New entrants.....	743	711	70	52	145	140	528	519	497	497	246	214
<b>PERCENT DISTRIBUTION</b>												
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.....	38.6	41.1	59.8	63.5	32.7	35.1	19.3	18.9	37.9	41.2	41.1	41.0
On layoff.....	8.4	11.3	11.4	17.1	9.0	10.4	3.6	4.6	8.7	11.8	7.6	9.8
Other job losers.....	30.2	29.8	48.4	46.4	23.7	24.7	15.7	14.3	29.2	29.4	33.5	31.2
Job leavers.....	15.9	15.3	15.6	15.2	17.9	15.8	13.2	14.5	17.6	16.8	10.4	10.3
Reentrants.....	31.9	31.3	20.9	18.8	42.6	43.0	30.6	30.7	32.6	30.7	29.4	33.1
New entrants.....	13.6	12.3	3.7	2.5	6.8	6.2	36.9	35.9	11.9	11.3	19.1	15.7
<b>UNEMPLOYMENT RATE</b>												
Total unemployment rate.....	5.4	5.6	3.5	3.8	5.5	5.7	15.4	15.9	4.7	4.8	10.6	10.9
Job loser rate <sup>1</sup> .....	2.1	2.3	2.1	2.3	1.8	2.0	3.0	3.0	1.8	2.0	4.4	4.5
Job leaver rate <sup>1</sup> .....	.9	.8	.6	.6	1.0	.9	2.0	2.3	.8	.8	1.1	1.1
Reentrant rate <sup>1</sup> .....	1.7	1.7	.7	.7	2.4	2.4	4.7	4.9	1.5	1.5	3.1	3.6
New entrant rate <sup>1</sup> .....	.7	.7	.1	.1	.4	.4	5.7	5.7	.6	.5	2.0	1.7

<sup>1</sup> 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	October 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
<b>Total, 16 years and over</b> .....	5,781	100.0	49.9	31.7	18.4	10.2	8.2
Job losers.....	2,380	100.0	43.0	33.5	23.5	12.9	10.6
On layoff.....	655	100.0	58.6	27.9	13.5	8.0	5.5
Other job losers.....	1,725	100.0	37.1	35.7	27.3	14.8	12.5
Job leavers.....	882	100.0	52.1	33.4	14.6	6.9	7.6
Reentrants.....	1,808	100.0	56.4	28.7	14.9	8.3	6.6
New entrants.....	711	100.0	53.7	31.0	15.3	10.1	5.2
<b>Males, 20 years and over</b> .....	2,062	100.0	44.3	31.8	24.0	11.3	12.6
Job losers.....	1,309	100.0	40.9	33.3	25.8	12.8	13.0
On layoff.....	352	100.0	58.5	28.9	12.6	8.1	4.4
Other job losers.....	957	100.0	34.4	34.9	30.7	14.6	16.1
Job leavers.....	313	100.0	47.9	32.1	20.0	6.7	13.2
Reentrants.....	387	100.0	51.1	27.1	21.8	10.8	11.0
New entrants.....	52	100.0	(1)	(1)	(1)	(1)	(1)
<b>Females, 20 years and over</b> .....	2,274	100.0	50.5	31.0	18.5	10.8	7.7
Job losers.....	798	100.0	43.6	32.9	23.5	15.0	8.5
On layoff.....	237	100.0	54.7	29.3	15.9	8.8	7.2
Other job losers.....	561	100.0	38.9	34.5	26.6	17.6	9.0
Job leavers.....	358	100.0	51.4	33.5	15.0	9.0	6.0
Reentrants.....	977	100.0	55.1	29.3	15.5	8.3	7.2
New entrants.....	140	100.0	55.7	24.9	19.4	9.1	10.3
<b>Both sexes, 16 to 19 years</b> .....	1,445	100.0	56.8	32.7	10.4	7.6	2.8
Job losers.....	273	100.0	51.2	36.6	12.3	7.0	5.3
On layoff.....	66	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers.....	207	100.0	44.2	42.6	13.2	7.9	5.3
Job leavers.....	210	100.0	59.3	35.0	5.7	3.7	2.0
Reentrants.....	444	100.0	63.6	28.9	7.5	6.2	1.2
New entrants.....	519	100.0	53.0	33.0	14.0	10.7	3.3

<sup>1</sup> 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	October 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
<b>Total, 16 years and over</b> .....	5,781	5,036	25.6	5.3	71.5	31.4	12.5	7.1	1.53
16 to 19 years .....	1,445	1,363	18.1	1.8	78.8	25.9	10.9	7.0	1.43
20 to 24 years .....	1,340	1,181	29.1	5.6	73.4	32.3	10.1	5.5	1.56
25 to 34 years .....	1,339	1,107	32.2	8.1	66.8	36.8	16.2	7.0	1.67
35 to 44 years .....	707	573	24.8	7.0	67.4	33.3	10.8	6.1	1.49
45 to 54 years .....	540	469	25.8	6.0	68.7	31.3	16.4	9.2	1.57
55 to 64 years .....	310	256	24.2	6.3	59.4	29.7	10.2	11.3	1.41
65 years and over .....	101	87	20.7	2.3	69.0	26.4	23.0	11.5	1.53
<b>Males, 16 years and over</b> .....	2,756	2,304	28.3	5.3	72.6	28.9	14.9	8.8	1.59
16 to 19 years .....	694	646	18.7	.6	79.1	24.1	11.8	8.4	1.43
20 to 24 years .....	673	563	30.9	5.2	73.0	28.2	11.9	9.2	1.58
25 to 34 years .....	578	449	39.0	11.6	66.4	37.9	20.5	6.9	1.82
35 to 44 years .....	310	227	28.2	6.2	70.5	33.0	14.5	6.2	1.59
45 to 54 years .....	279	239	30.5	5.4	72.8	24.7	23.4	12.6	1.69
55 to 64 years .....	155	121	26.4	7.4	63.6	29.8	7.4	12.4	1.47
65 years and over .....	68	59	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Females, 16 years and over</b> .....	3,026	2,732	23.4	5.3	70.6	33.4	10.6	5.6	1.49
16 to 19 years .....	752	717	17.7	3.1	78.5	27.5	10.3	5.9	1.43
20 to 24 years .....	667	618	27.5	6.0	73.8	36.1	8.4	2.3	1.54
25 to 34 years .....	761	657	27.5	5.8	67.1	36.1	12.2	7.0	1.57
35 to 44 years .....	397	346	22.8	7.5	65.6	33.8	8.4	6.1	1.44
45 to 54 years .....	261	230	20.9	6.5	64.3	38.3	9.6	5.7	1.45
55 to 64 years .....	155	136	22.1	5.1	55.1	29.4	12.5	10.3	1.35
65 years and over .....	33	28	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>White, 16 years and over</b> .....	4,415	3,807	22.2	5.0	73.3	33.3	12.9	6.7	1.53
Males .....	2,129	1,761	24.8	5.3	74.7	30.0	14.6	8.7	1.58
Females .....	2,286	2,046	20.1	4.8	72.2	36.1	11.3	5.0	1.50
<b>Black and other, 16 years and over</b> .....	1,366	1,229	36.1	6.2	65.7	25.5	11.6	8.1	1.53
Males .....	627	543	39.8	5.0	65.7	25.8	15.7	9.2	1.61
Females .....	740	686	33.2	7.0	65.7	25.2	8.3	7.3	1.47

<sup>1</sup> 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	October 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
<b>Total, 16 years and over</b> .....	5,781	5,036	25.6	5.3	71.5	31.4	12.5	7.1	1.53
Job losers .....	2,380	1,726	34.3	6.7	70.7	33.5	15.2	7.5	1.68
Job leavers .....	882	890	24.6	6.2	75.2	34.9	12.9	4.9	1.59
Reentrants .....	1,808	1,719	19.0	4.7	68.6	30.5	10.6	8.0	1.42
New entrants .....	711	701	22.1	2.3	75.7	23.4	10.1	6.3	1.40
<b>Males, 16 years and over</b> .....	2,756	2,304	28.3	5.3	72.6	28.9	14.9	8.8	1.59
Job losers .....	1,457	1,047	33.9	5.7	73.2	30.5	17.2	9.3	1.70
Job leavers .....	435	437	26.3	7.1	71.9	31.4	13.5	7.8	1.58
Reentrants .....	610	568	22.0	4.8	68.7	28.7	12.7	9.9	1.47
New entrants .....	254	252	22.6	.8	80.2	19.0	12.7	6.3	1.42
<b>Females, 16 years and over</b> .....	3,026	2,732	23.4	5.3	70.6	33.4	10.6	5.6	1.49
Job losers .....	923	679	34.9	8.2	66.9	38.3	12.2	4.9	1.65
Job leavers .....	447	453	23.0	5.1	78.4	38.4	12.1	2.2	1.59
Reentrants .....	1,198	1,151	17.5	4.7	68.5	31.5	9.6	7.1	1.39
New entrants .....	457	449	21.8	3.1	73.5	25.8	8.9	6.2	1.39

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	
	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979
<b>Total, 16 years and over</b> .....	5,460	5,781	100.0	100.0	3,992	4,296	100.0	100.0
Less than 5 weeks .....	2,644	2,883	48.4	49.9	1,776	1,943	44.5	45.2
5 to 14 weeks .....	1,669	1,833	30.6	31.7	1,218	1,398	30.5	32.5
5 to 10 weeks .....	1,354	1,405	24.8	24.3	967	1,027	24.2	23.9
11 to 14 weeks .....	315	428	5.8	7.4	251	370	6.3	8.6
15 weeks and over .....	1,147	1,065	21.0	18.4	998	955	25.0	22.2
15 to 26 weeks .....	612	591	11.2	10.2	511	527	12.8	12.3
27 weeks and over .....	535	475	9.8	8.2	486	428	12.2	10.0
27 to 51 weeks .....	243	240	4.5	4.2	216	225	5.4	5.2
52 weeks and over .....	292	235	5.3	4.1	270	203	6.8	4.7
Average (mean) duration, in weeks .....	11.4	10.2	--	--	13.1	11.5	--	--
Median duration, in weeks .....	5.3	5.0	--	--	6.1	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			Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979
	October 1979								Oct. 1978	Oct. 1979	Oct. 1978
<b>Total, 16 years and over</b> .....	5,781	2,883	1,833	591	475	16.2	5.0	48.4	49.9	21.0	18.4
16 to 21 years .....	2,035	1,128	673	157	77	7.5	4.5	54.1	55.4	14.0	11.5
16 to 19 years .....	1,445	822	473	110	41	6.8	4.4	54.9	56.8	12.7	10.4
20 to 24 years .....	1,340	668	441	135	96	9.5	5.0	49.1	49.9	17.8	17.3
25 to 34 years .....	1,339	652	420	161	106	10.6	5.3	47.2	48.7	24.7	20.0
35 to 44 years .....	707	322	220	91	74	11.4	5.9	50.0	45.5	18.9	23.4
45 to 54 years .....	540	233	161	47	99	15.8	7.0	37.4	43.1	31.5	27.1
55 to 64 years .....	310	149	86	30	44	13.5	5.5	40.2	48.1	39.6	24.1
65 years and over .....	101	38	33	15	15	14.8	6.7	37.2	37.7	33.4	29.4
<b>Males, 16 years and over</b> .....	2,756	1,314	866	293	283	11.4	5.5	47.2	47.7	24.3	20.9
16 to 21 years .....	981	547	311	86	37	7.7	4.5	53.9	55.7	15.3	12.5
16 to 19 years .....	694	401	211	58	23	6.9	4.3	55.8	57.9	14.2	11.8
20 to 24 years .....	673	319	236	68	50	10.1	5.5	48.0	47.4	19.6	17.6
25 to 34 years .....	578	258	176	78	66	12.4	6.6	45.2	44.6	27.9	25.0
35 to 44 years .....	310	128	111	32	39	12.6	7.1	48.2	41.3	24.1	22.9
45 to 54 years .....	279	112	72	29	66	18.6	8.7	31.1	40.1	42.4	34.2
55 to 64 years .....	155	71	41	18	25	15.9	7.4	40.1	45.6	37.6	27.5
65 years and over .....	68	25	19	9	14	17.6	6.4	(1)	(1)	(1)	(1)
<b>Females, 16 years and over</b> .....	3,026	1,569	967	298	192	9.1	4.8	49.5	51.9	17.9	16.2
16 to 21 years .....	1,054	582	362	71	40	7.3	4.5	54.3	55.2	12.6	10.5
16 to 19 years .....	752	420	262	51	18	6.7	4.5	54.0	55.9	11.0	9.2
20 to 24 years .....	667	349	205	67	46	8.9	4.8	50.2	52.4	16.0	16.9
25 to 34 years .....	761	394	244	83	40	9.2	4.8	48.7	51.8	22.0	16.2
35 to 44 years .....	397	194	109	59	35	10.6	5.2	51.2	48.9	15.4	23.7
45 to 54 years .....	261	121	89	18	33	12.8	5.9	43.2	46.3	21.4	19.5
55 to 64 years .....	155	79	45	13	19	11.1	4.9	40.3	50.6	42.2	20.6
65 years and over .....	33	12	14	6	1	9.0	8.3	(1)	(1)	(1)	(1)
<b>Whites, 16 years and over</b> .....	4,415	2,255	1,400	439	321	9.6	4.9	50.0	51.1	20.1	17.2
Males .....	2,129	1,028	671	235	195	10.9	5.3	49.2	48.3	23.1	20.2
Females .....	2,286	1,227	729	205	125	8.3	4.7	50.8	53.7	17.1	14.4
<b>Black and other, 16 years and over</b> .....	1,366	629	433	151	154	12.3	6.1	43.2	46.0	24.1	22.3
Males .....	627	286	195	58	87	13.1	6.1	40.3	45.6	28.8	23.2
Females .....	740	343	238	93	67	11.6	6.0	45.6	46.3	20.2	21.6
<b>Males, 16 years and over:</b>											
Married, spouse present .....	975	413	294	125	144	13.7	7.0	45.1	42.3	29.5	27.5
Widowed, divorced, or separated .....	313	121	127	28	36	13.1	7.4	44.1	38.8	31.4	20.5
Single (never married) .....	1,468	780	445	140	103	9.6	4.7	49.1	53.1	19.9	16.6
<b>Females, 16 years and over:</b>											
Married, spouse present .....	1,307	730	377	118	82	8.6	4.5	50.2	55.8	19.4	15.3
Widowed, divorced, or separated .....	537	239	182	65	52	11.3	6.0	45.3	44.5	18.0	21.6
Single (never married) .....	1,181	600	408	115	58	8.6	4.9	50.8	50.8	16.1	14.7

<sup>1</sup> Percent not shown where base is less than 75,000.

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979
	October 1979										
<b>OCCUPATION</b>											
White-collar workers .....	1,814	877	616	181	140	10.0	5.3	46.2	48.3	21.0	17.7
Professional and managerial .....	659	270	240	79	72	12.5	6.9	40.3	41.0	25.2	22.8
Sales workers .....	234	131	80	13	10	7.5	4.5	54.5	56.1	15.5	9.8
Clerical workers .....	920	475	297	89	59	8.9	4.8	47.9	51.6	19.7	16.1
Blue-collar workers .....	2,191	1,052	683	243	212	10.9	5.4	48.2	48.0	23.1	20.8
Craft and kindred workers .....	535	270	161	42	61	11.4	5.0	46.1	50.5	24.0	19.4
Operatives, except transport .....	982	449	318	121	94	11.3	5.9	46.9	45.7	23.2	22.0
Transport equipment operatives .....	176	76	60	22	18	11.1	6.2	49.7	43.3	28.3	22.5
Nonfarm laborers .....	497	257	144	57	39	9.6	4.8	51.8	51.7	20.6	19.3
Service workers .....	965	515	286	83	81	10.0	4.7	51.0	53.4	18.2	17.0
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	129	73	37	15	5	7.9	4.4	63.1	56.6	7.2	15.0
Construction .....	430	221	140	30	39	10.1	4.9	58.3	51.5	16.7	16.1
Manufacturing .....	1,286	563	434	151	138	11.5	6.3	43.0	43.8	25.0	22.4
Durable goods .....	705	311	230	78	86	11.7	6.6	39.7	44.2	29.2	23.2
Nondurable goods .....	582	252	205	73	52	11.4	6.1	46.8	43.3	20.2	21.5
Transportation and public utilities .....	225	104	58	32	30	12.6	6.2	46.3	46.3	28.8	27.9
Wholesale and retail trade .....	1,175	623	383	93	76	8.7	4.7	50.5	53.0	20.5	14.3
Finance and service industries .....	1,454	735	445	162	113	10.3	5.1	47.9	50.6	18.3	18.9
Public administration .....	248	138	71	20	20	10.1	4.5	37.3	55.4	30.2	16.1
No previous work experience .....	711	382	220	72	37	9.1	4.7	48.3	53.7	21.1	15.3

<sup>1</sup> Includes wage and salary workers only.

A-20. Employed persons by sex and age

(In thousands)

Age and type of industry	Total		Males		Females	
	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979
<b>All industries</b> .....	96,095	98,158	56,045	56,840	40,049	41,318
16 to 19 years .....	7,834	7,658	4,156	4,024	3,678	3,633
16 to 17 years .....	3,200	3,132	1,673	1,673	1,527	1,459
18 to 19 years .....	4,634	4,526	2,483	2,351	2,151	2,175
20 to 24 years .....	13,820	13,897	7,423	7,522	6,397	6,374
25 to 54 years .....	60,139	61,995	35,569	36,352	24,570	25,644
25 to 34 years .....	25,194	26,231	14,850	15,443	10,344	10,788
35 to 44 years .....	18,376	19,278	10,871	11,170	7,505	8,108
45 to 54 years .....	16,569	16,487	9,848	9,739	6,721	6,748
55 to 64 years .....	11,332	11,593	6,965	7,058	4,367	4,535
55 to 59 years .....	7,029	7,199	4,285	4,349	2,744	2,849
60 to 64 years .....	4,302	4,394	2,680	2,709	1,623	1,685
65 years and over .....	2,971	3,015	1,932	1,894	1,039	1,131
<b>Nonagricultural industries</b> .....	92,541	94,691	53,253	54,077	39,288	40,614
16 to 19 years .....	7,432	7,316	3,826	3,733	3,606	3,584
16 to 17 years .....	2,986	2,933	1,499	1,498	1,487	1,436
18 to 19 years .....	4,446	4,383	2,326	2,235	2,120	2,148
20 to 24 years .....	13,382	13,494	7,072	7,190	6,310	6,303
25 to 54 years .....	58,380	60,159	34,250	34,962	24,129	25,198
25 to 34 years .....	24,568	25,527	14,371	14,875	10,197	10,653
35 to 44 years .....	17,834	18,743	10,473	10,787	7,361	7,956
45 to 54 years .....	15,977	15,889	9,406	9,300	6,571	6,589
55 to 64 years .....	10,748	11,046	6,501	6,615	4,247	4,431
55 to 59 years .....	6,718	6,920	4,047	4,125	2,672	2,795
60 to 64 years .....	4,029	4,126	2,454	2,490	1,575	1,636
65 years and over .....	2,601	2,675	1,604	1,577	996	1,098
<b>Agriculture</b> .....	3,553	3,467	2,792	2,763	761	704
16 to 19 years .....	402	341	330	291	71	50
16 to 17 years .....	214	199	174	176	40	23
18 to 19 years .....	188	142	157	116	31	26
20 to 24 years .....	438	403	351	332	87	71
25 to 54 years .....	1,759	1,837	1,319	1,390	440	446
25 to 34 years .....	626	704	479	569	147	135
35 to 44 years .....	542	535	398	383	144	152
45 to 54 years .....	592	598	442	439	150	159
55 to 64 years .....	584	547	464	443	120	104
55 to 59 years .....	311	278	238	224	73	54
60 to 64 years .....	273	268	226	219	47	50
65 years and over .....	370	340	328	307	43	33

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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	
	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979
	<b>TOTAL</b>	96,095	98,158	51,889	52,816	36,372	37,684	4,156	4,024	3,678
White-collar workers	48,038	49,991	22,150	22,856	23,452	24,537	635	648	1,801	1,951
Professional and technical	14,548	15,183	8,192	8,476	6,206	6,503	71	92	78	112
Health workers	2,582	2,828	923	986	1,636	1,824	3	4	20	15
Teachers, except college	3,241	3,283	905	941	2,318	2,316	3	4	15	22
Other professional and technical	8,725	9,072	6,364	6,549	2,252	2,363	65	84	43	75
Managers and administrators, except farm	10,018	10,701	7,653	7,978	2,260	2,604	46	63	58	56
Salaried workers	8,330	8,984	6,323	6,635	1,903	2,236	47	56	58	57
Self-employed workers in retail trade	812	839	567	578	244	258	--	2	1	--
Self-employed workers, except retail trade	876	879	763	765	113	110	--	5	--	--
Sales workers	5,971	6,228	3,101	3,120	2,285	2,401	212	241	373	466
Retail trade	3,171	3,244	1,023	998	1,617	1,640	184	179	347	426
Other industries	2,800	2,984	2,078	2,122	668	761	28	61	26	40
Clerical workers	17,501	17,878	3,204	3,281	12,700	13,029	306	252	1,291	1,316
Stenographers, typists, and secretaries	4,715	4,757	65	61	4,306	4,354	5	4	339	338
Other clerical workers	12,786	13,121	3,139	3,220	8,394	8,675	301	248	952	978
Blue-collar workers	32,165	32,376	23,792	23,966	5,534	5,763	2,343	2,244	497	404
Craft and kindred workers	12,615	13,039	11,364	11,751	699	698	507	539	46	50
Carpenters	1,297	1,313	1,206	1,209	10	7	78	92	3	5
Construction craft, except carpenters	2,529	2,638	2,367	2,496	30	36	126	101	6	4
Mechanics and repairers	3,433	3,362	3,199	3,111	47	41	186	203	3	7
Metal craft	1,293	1,342	1,227	1,267	40	44	24	28	3	2
Blue-collar worker supervisors, not elsewhere classified	1,652	1,835	1,451	1,639	188	180	12	10	1	5
All other	2,410	2,551	1,915	2,029	384	389	81	104	30	28
Operatives, except transport	11,265	11,077	6,109	5,889	4,156	4,297	689	642	312	249
Durable goods manufacturing	5,103	5,017	3,126	2,978	1,612	1,740	251	211	115	89
Non-durable goods manufacturing	3,651	3,470	1,463	1,306	1,923	1,949	122	107	143	108
Other industries	2,510	2,590	1,520	1,604	621	609	315	324	54	53
Transport equipment operatives	3,626	3,607	3,102	3,086	301	329	198	176	25	17
Drivers, motor vehicles	3,125	3,071	2,641	2,594	286	313	176	147	23	17
All other	501	536	461	491	15	16	23	28	2	--
Nonfarm laborers	4,658	4,653	3,217	3,240	378	439	949	887	114	87
Construction	892	945	735	742	22	26	125	174	10	3
Manufacturing	1,178	1,124	870	871	141	149	144	91	23	12
Other industries	2,589	2,584	1,612	1,627	216	263	680	622	81	72
Service workers	12,934	12,957	3,825	3,904	6,865	6,903	911	900	1,333	1,250
Private household workers	1,164	1,135	14	17	943	915	17	8	189	194
Service workers, except private household	11,770	11,822	3,811	3,887	5,922	5,988	894	892	1,144	1,055
Food service workers	4,400	4,288	738	792	2,285	2,201	569	562	809	734
Protective service workers	1,373	1,416	1,223	1,269	113	117	34	25	2	4
All other	5,997	6,118	1,850	1,826	3,524	3,670	291	305	333	317
Farm workers	2,959	2,833	2,122	2,090	521	481	268	232	48	29
Farmers and farm managers	1,547	1,529	1,353	1,349	163	168	27	10	3	1
Farm laborers and supervisors	1,412	1,304	769	741	358	313	240	222	45	28
Paid workers	1,083	997	728	702	132	119	188	156	36	20
Unpaid family workers	329	307	41	39	227	195	53	66	9	8

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979
<b>TOTAL</b>						
Total, 16 years and over (thousands)	96,095	98,158	56,045	56,840	40,049	41,318
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	50.0	50.9	40.7	41.4	63.1	64.1
Professional and technical	15.1	15.5	14.7	15.1	15.7	16.0
Managers and administrators, except farm	10.4	10.9	13.7	14.1	5.8	6.4
Sales workers	6.2	6.3	5.9	5.9	6.6	6.9
Clerical workers	18.2	18.2	6.3	6.2	34.9	34.7
Blue-collar workers	33.5	33.0	46.6	46.1	15.1	14.9
Craft and kindred workers	13.1	13.3	21.2	21.6	1.9	1.8
Operatives, except transport	11.7	11.3	12.1	11.5	11.2	11.0
Transport equipment operatives	3.8	3.7	5.9	5.7	.8	.8
Nonfarm laborers	4.8	4.7	7.4	7.3	1.2	1.3
Service workers	13.5	13.2	8.5	8.5	20.5	19.7
Private household workers	1.2	1.2	.1	(1)	2.8	2.7
Other service workers	12.2	12.0	8.4	8.4	17.6	17.0
Farm workers	3.1	2.9	4.3	4.1	1.4	1.2
Farmers and farm managers	1.6	1.6	2.5	2.4	.4	.4
Farm laborers and supervisors	1.5	1.3	1.8	1.7	1.0	.8
<b>White</b>						
Total, 16 years and over (thousands)	85,297	87,020	50,316	50,971	34,981	36,049
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	51.7	52.6	42.3	42.9	65.3	66.2
Professional and technical	15.6	15.9	15.3	15.6	16.0	16.3
Managers and administrators, except farm	11.1	11.6	14.5	14.9	6.2	6.9
Sales workers	6.7	6.8	6.3	6.3	7.2	7.5
Clerical workers	18.4	18.3	6.1	6.1	35.9	35.6
Blue-collar workers	33.0	32.4	45.9	45.2	14.5	14.4
Craft and kindred workers	13.7	13.8	21.8	22.2	1.9	1.9
Operatives, except transport	11.2	10.8	11.6	11.1	10.6	10.4
Transport equipment operatives	3.6	3.5	5.6	5.4	.8	.9
Nonfarm laborers	4.5	4.3	6.8	6.5	1.2	1.2
Service workers	12.2	12.0	7.6	7.7	18.7	18.0
Private household workers	.9	.9	.1	(1)	2.1	2.0
Other service workers	11.3	11.2	7.6	7.7	16.6	16.0
Farm workers	3.1	3.0	4.3	4.1	1.5	1.3
Farmers and farm managers	1.8	1.7	2.7	2.6	.5	.5
Farm laborers and supervisors	1.4	1.3	1.6	1.5	1.0	.9
<b>Black and other</b>						
Total, 16 years and over (thousands)	10,798	11,137	5,729	5,869	5,069	5,268
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	36.5	38.0	26.5	27.6	47.8	49.5
Professional and technical	11.9	11.9	10.2	10.1	13.7	13.9
Managers and administrators, except farm	4.9	5.6	6.6	7.5	2.9	3.5
Sales workers	2.7	2.8	2.3	2.4	3.1	3.2
Clerical workers	17.1	17.7	7.3	7.6	28.1	28.9
Blue-collar workers	37.1	37.4	53.3	54.1	18.7	18.6
Craft and kindred workers	8.8	9.2	15.4	16.4	1.4	1.3
Operatives, except transport	16.0	15.3	16.6	15.2	15.3	15.3
Transport equipment operatives	5.0	4.9	8.8	8.8	.7	.5
Nonfarm laborers	7.3	7.9	12.6	13.7	1.4	1.5
Service workers	23.7	22.5	15.8	14.5	32.7	31.3
Private household workers	3.6	3.5	.1	.1	7.6	7.2
Other service workers	20.1	19.0	15.7	14.4	25.1	24.1
Farm workers	2.7	2.2	4.3	3.7	.8	.6
Farmers and farm managers	.4	.4	.7	.6	.1	.1
Farm laborers and supervisors	2.3	1.9	3.6	3.1	.7	.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	October 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					
<b>Total, 16 years and over</b> .....	87,542	1,290	15,673	70,579	6,753	396	1,448	1,677	341
16 to 19 years .....	7,213	238	530	6,445	87	16	239	26	76
16 to 17 years .....	2,882	178	159	2,544	43	9	130	16	52
18 to 19 years .....	4,331	60	371	3,900	44	7	109	10	24
20 to 24 years .....	13,106	86	1,557	11,463	369	19	271	105	27
25 to 34 years .....	23,894	188	4,489	19,217	1,569	64	387	274	42
35 to 44 years .....	16,984	120	3,633	13,231	1,640	118	180	292	63
45 to 54 years .....	14,381	219	3,061	11,101	1,420	88	168	360	70
55 to 64 years .....	9,835	251	2,058	7,526	1,151	61	126	376	45
55 to 59 years .....	6,177	135	1,275	4,766	700	43	62	196	21
60 to 64 years .....	3,658	115	783	2,760	450	18	64	180	24
65 years and over .....	2,129	188	345	1,596	516	30	77	244	18
<b>Males, 16 years and over</b> .....	49,290	140	7,740	41,410	4,757	30	1,173	1,483	107
16 to 19 years .....	3,674	52	226	3,395	50	9	200	25	66
16 to 17 years .....	1,464	37	80	1,346	28	6	113	16	47
18 to 19 years .....	2,210	14	146	2,049	22	3	88	9	19
20 to 24 years .....	6,932	11	636	6,285	253	5	217	98	17
25 to 34 years .....	13,800	12	2,237	11,552	1,072	3	309	247	13
35 to 44 years .....	9,615	10	1,786	7,819	1,172	1	135	244	3
45 to 54 years .....	8,303	7	1,621	6,675	992	5	134	303	1
55 to 64 years .....	5,775	16	1,033	4,725	837	3	102	337	4
55 to 59 years .....	3,615	8	648	2,960	509	1	51	171	2
60 to 64 years .....	2,160	8	386	1,766	328	2	51	166	2
65 years and over .....	1,192	33	200	959	381	5	76	227	3
<b>Females, 16 years and over</b> .....	38,252	1,150	7,933	29,169	1,996	366	275	194	234
16 to 19 years .....	3,539	187	304	3,049	37	8	39	1	10
16 to 17 years .....	1,418	141	79	1,198	15	3	17	1	5
18 to 19 years .....	2,121	46	224	1,851	22	5	21	--	5
20 to 24 years .....	6,174	76	921	5,178	116	13	55	7	9
25 to 34 years .....	10,094	176	2,252	7,666	497	61	78	27	30
35 to 44 years .....	7,369	110	1,847	5,412	469	118	45	48	60
45 to 54 years .....	6,078	213	1,439	4,426	428	83	33	56	69
55 to 64 years .....	4,060	235	1,025	2,801	313	58	24	39	41
55 to 59 years .....	2,562	128	627	1,807	191	43	11	25	18
60 to 64 years .....	1,498	107	397	994	122	15	13	14	22
65 years and over .....	937	155	145	637	136	25	1	17	16

## A-24. Employed persons by industry and occupation

[In thousands]

Industry	October 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	
<b>Total, 16 years and over:</b> .....												
Agriculture .....	3,467	65	26	4	101	52	30	61	285	--	10	2,833
Mining .....	871	133	66	6	97	228	258	49	20	--	15	--
Construction .....	6,547	180	732	40	447	3,670	335	167	945	--	31	--
Manufacturing .....	22,305	2,313	1,560	534	2,770	4,372	8,487	701	1,124	--	444	--
Durable goods .....	13,434	1,573	911	176	1,610	2,859	5,017	354	678	--	257	--
Nondurable goods .....	8,871	741	650	358	1,160	1,513	3,470	347	446	--	187	--
Transportation and public utilities .....	6,496	565	614	52	1,537	1,429	148	1,577	411	--	163	--
Wholesale and retail trade .....	19,699	444	3,807	4,154	3,379	1,511	1,011	768	1,149	--	3,477	--
Wholesale trade .....	3,780	169	775	910	726	346	200	377	243	--	34	--
Retail trade .....	15,919	275	3,032	3,244	2,653	1,165	811	391	905	--	3,443	--
Finance, insurance, and real estate .....	5,851	328	1,184	1,263	2,637	105	8	9	69	--	248	--
Services .....	27,897	10,182	2,060	170	5,139	1,395	756	215	488	1,135	6,357	--
Private households .....	1,350	14	2	--	11	7	4	5	109	1,135	63	--
Other service industries .....	26,547	10,168	2,058	170	5,128	1,388	752	210	379	--	6,294	--
Public administration .....	5,025	972	653	5	1,772	277	45	60	162	--	1,079	--

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

(In thousands)

Reason not working	All industries		Nonagricultural industries					
			Total		Wage and salary workers <sup>1</sup>			
	Oct. 1978				Oct. 1979		Paid absences <sup>2</sup>	
			Oct. 1978	Oct. 1979			Oct. 1978	Oct. 1979
Total, 16 years and over . . . . .	4,153	4,328	4,062	4,218	2,087	2,111	1,531	1,671
Vacation . . . . .	1,876	2,026	1,845	1,976	1,394	1,405	285	406
Illness . . . . .	1,397	1,436	1,377	1,409	562	569	709	737
Bad weather . . . . .	25	40	22	36	--	--	--	--
Industrial dispute . . . . .	64	123	64	123	--	--	--	--
All other reasons . . . . .	790	703	754	674	130	136	538	528
Males, 16 years and over . . . . .	2,364	2,426	2,296	2,348	1,304	1,275	736	827
Vacation . . . . .	1,119	1,210	1,097	1,177	894	878	109	196
Illness . . . . .	805	786	786	766	346	327	376	383
All other reasons <sup>3</sup> . . . . .	440	430	413	405	65	69	251	248
Females, 16 years and over . . . . .	1,789	1,902	1,766	1,870	783	837	795	843
Vacation . . . . .	757	815	748	799	500	528	176	209
Illness . . . . .	592	650	590	643	217	242	333	354
All other reasons <sup>3</sup> . . . . .	440	437	428	428	66	67	286	279

<sup>1</sup>Excludes private household.

<sup>3</sup>Includes bad weather and industrial dispute, not shown separately.

<sup>2</sup>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	October 1979					
	Thousands of persons			Percent distribution		
	All industries	Nonagri-cultural industries	Agricul-ture	All industries	Nonagri-cultural industries	Agricul-ture
Total, 16 years and over . . . . .	93,829	90,472	3,357	100.0	100.0	100.0
1-34 hours . . . . .	24,750	23,880	871	26.4	26.4	25.9
1-4 hours . . . . .	761	725	35	.8	.8	1.0
5-14 hours . . . . .	4,282	4,085	198	4.6	4.5	5.9
15-29 hours . . . . .	11,208	10,770	439	11.9	11.9	13.1
30-34 hours . . . . .	8,499	8,300	199	9.1	9.2	5.9
35 hours and over . . . . .	69,080	66,592	2,486	73.6	73.6	74.1
35-39 hours . . . . .	6,308	6,173	134	6.7	6.8	4.0
40 hours . . . . .	36,598	36,135	463	39.0	39.9	13.8
41 hours and over . . . . .	26,174	24,284	1,889	27.9	26.8	56.3
41 to 48 hours . . . . .	9,928	9,720	208	10.6	10.7	6.2
49 to 59 hours . . . . .	8,905	8,452	452	9.5	9.3	13.5
60 hours and over . . . . .	7,341	6,112	1,229	7.8	6.8	36.6
Average hours, total at work . . . . .	39.0	38.6	49.0	--	--	--
Average hours, workers on full-time schedules . . . . .	43.3	42.8	57.6	--	--	--

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

(Numbers in thousands)

Reason for working less than 35 hours	October 1979					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
<b>Total, 16 years and over</b> . . . . .	24,750	9,222	15,529	23,880	9,020	14,860
<b>Economic reasons</b> . . . . .	3,144	1,283	1,861	2,979	1,205	1,774
Slack work . . . . .	1,480	881	599	1,371	817	554
Material shortages or repairs to plant and equipment . . . . .	98	98	--	95	95	--
New job started during week . . . . .	208	208	--	206	206	--
Job terminated during week . . . . .	95	95	--	86	86	--
Could find only part-time work . . . . .	1,262	--	1,262	1,220	--	1,220
<b>Other reasons</b> . . . . .	21,605	7,938	13,667	20,901	7,816	13,085
Does not want, or unavailable for, full-time work . . . . .	11,465	--	11,465	11,010	--	11,010
Vacation . . . . .	873	873	--	867	867	--
Illness . . . . .	1,902	1,654	248	1,859	1,638	221
Bad weather . . . . .	362	362	--	318	318	--
Industrial dispute . . . . .	21	21	--	21	21	--
Legal or religious holiday . . . . .	3,527	3,527	--	3,521	3,521	--
Full time for this job . . . . .	1,456	--	1,456	1,406	--	1,406
All other reasons . . . . .	2,001	1,503	498	1,899	1,451	448
<b>Average hours:</b>						
Economic reasons . . . . .	21.6	23.6	20.2	21.7	23.7	20.3
Other reasons . . . . .	22.1	28.2	18.6	22.1	28.2	18.5
<b>Worked 30 to 34 hours:</b>						
Economic reasons . . . . .	896	502	394	848	468	380
Other reasons . . . . .	7,603	5,358	2,245	7,452	5,305	2,147

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

(Numbers in thousands)

Industry	October 1979								
	Full- or part-time status							Average hours, total at work	Average hours, workers on full-time schedules
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules					
				Total	40 hours or less	41 to 48 hours	49 hours or more		
<b>Total, 16 years and over</b> <sup>1</sup> . . . . .	90,472	2,979	13,085	74,408	50,124	9,720	14,564	38.6	42.8
<b>Wage and salary workers</b> . . . . .	83,697	2,628	11,875	69,194	47,839	9,138	12,217	38.3	42.4
Construction . . . . .	5,154	234	249	4,671	3,306	563	802	39.8	41.8
Manufacturing . . . . .	20,804	501	711	19,592	13,455	3,200	2,937	41.0	42.2
Durable goods . . . . .	12,484	198	302	11,984	8,278	1,908	1,798	41.3	42.1
Nondurable goods . . . . .	8,319	303	409	7,607	5,176	1,292	1,139	40.4	42.2
Transportation and public utilities . . . . .	5,881	119	390	5,372	3,502	702	1,168	41.8	43.8
Wholesale and retail trade . . . . .	17,075	767	4,495	11,813	7,307	1,867	2,639	36.4	43.7
Finance, insurance, and real estate . . . . .	5,100	69	541	4,490	3,434	470	586	38.0	40.4
Service industries . . . . .	24,104	872	5,210	18,022	13,006	1,842	3,174	36.0	42.1
Private households . . . . .	1,227	179	614	434	299	33	102	24.2	44.6
All other industries . . . . .	22,877	693	4,596	17,588	12,707	1,809	3,072	36.6	42.0
Public administration . . . . .	4,765	58	259	4,448	3,388	387	673	39.2	40.7
Self-employed workers . . . . .	6,380	336	1,045	4,999	2,163	561	2,275	42.0	48.7
Unpaid family workers . . . . .	396	15	165	216	123	21	72	35.7	46.3

<sup>1</sup> 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	October 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		
<b>TOTAL</b>								
Both sexes, 16 years and over	90,472	2,979	13,085	74,408	50,124	24,284	38.6	42.8
16 to 21 years	12,098	708	4,668	6,722	5,104	1,618	30.5	41.1
16 to 19 years	7,108	438	3,657	3,013	2,381	632	26.7	40.2
16 to 17 years	2,840	111	2,372	357	296	61	18.9	38.9
18 to 19 years	4,268	327	1,285	2,656	2,084	572	32.0	40.4
20 years and over	83,364	2,541	9,428	71,395	47,745	23,650	39.6	42.9
20 to 24 years	13,091	599	1,863	10,629	7,571	3,058	37.7	41.9
25 years and over	70,273	1,943	7,564	60,766	40,174	20,592	39.9	43.1
25 to 44 years	42,533	1,157	3,922	37,454	24,377	13,077	40.5	43.2
45 to 64 years	25,310	690	2,496	22,124	14,974	7,150	40.0	42.9
65 years and over	2,430	97	1,147	1,186	819	367	29.9	43.2
<b>Males, 16 years and over</b>	51,729	1,256	4,070	46,403	27,957	18,446	41.7	44.3
16 to 21 years	6,297	301	2,174	3,822	2,717	1,105	32.4	42.0
16 to 19 years	3,637	193	1,754	1,690	1,247	443	28.3	41.0
16 to 17 years	1,453	37	1,208	208	171	37	19.9	39.4
18 to 19 years	2,183	156	547	1,480	1,075	405	33.9	41.3
20 years and over	48,092	1,063	2,316	44,713	26,709	18,004	42.7	44.4
20 to 24 years	7,000	273	740	5,987	3,869	2,118	39.8	43.3
25 years and over	41,091	790	1,575	38,726	22,841	15,885	43.2	44.6
25 to 44 years	24,736	488	528	23,720	13,625	10,095	43.8	44.8
45 to 64 years	14,917	245	438	14,234	8,714	5,520	43.2	44.4
65 years and over	1,438	57	610	771	501	270	31.7	43.9
<b>Females, 16 years and over</b>	38,743	1,723	9,014	28,006	22,169	5,837	34.4	40.3
16 to 21 years	5,801	409	2,494	2,898	2,385	513	28.4	39.9
16 to 19 years	3,471	245	1,903	1,323	1,133	190	25.1	39.2
16 to 17 years	1,387	74	1,165	148	125	23	17.8	38.2
18 to 19 years	2,084	171	738	1,175	1,009	166	29.9	39.3
20 years and over	35,272	1,478	7,112	26,682	21,034	5,648	35.3	40.3
20 to 24 years	6,091	326	1,123	4,642	3,702	940	35.3	40.2
25 years and over	29,181	1,153	5,989	22,039	17,331	4,708	35.3	40.4
25 to 44 years	17,797	669	3,394	13,734	10,753	2,981	35.8	40.4
45 to 64 years	10,393	444	2,058	7,891	6,262	1,629	35.4	40.2
65 years and over	991	39	537	415	317	98	27.3	41.9
<b>RACE</b>								
<b>White</b>	80,137	2,443	11,958	65,736	43,122	22,614	38.7	43.0
Males	46,381	1,047	3,672	41,662	24,344	17,318	42.0	44.6
Females	33,756	1,397	8,286	24,073	18,778	5,295	34.2	40.4
<b>Black and other</b>	10,336	536	1,127	8,673	7,002	1,671	37.6	41.1
Males	5,348	209	398	4,741	3,613	1,128	39.4	42.1
Females	4,988	327	729	3,932	3,391	541	35.7	39.8
<b>MARITAL STATUS</b>								
<b>Males, 16 years and over:</b>								
Married, spouse present	35,852	595	1,216	34,041	19,747	14,294	43.5	44.7
Widowed, divorced, or separated	4,140	138	183	3,819	2,289	1,530	42.7	44.6
Single (never married)	11,738	523	2,671	8,544	5,920	2,624	35.9	42.5
<b>Females, 16 years and over:</b>								
Married, spouse present	21,837	900	5,214	15,723	12,553	3,170	34.5	40.1
Widowed, divorced, or separated	7,274	335	1,040	5,899	4,500	1,399	36.9	40.9
Single (never married)	9,632	490	2,760	6,382	5,113	1,269	32.5	40.2

# 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	October 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		
<b>Total, 16 years and over</b> .....	91,089	3,039	13,214	74,836	50,339	9,764	14,733	38.6	38.4
White-collar workers .....	47,918	1,006	6,778	40,134	26,684	4,752	8,698	39.1	43.0
Professional and technical .....	14,606	227	1,643	12,736	8,395	1,518	2,823	39.8	43.0
Managers and administrators, except farm .....	10,259	110	432	9,717	4,604	1,344	3,769	45.9	47.3
Sales workers .....	5,938	254	1,497	4,187	2,516	514	1,157	36.6	44.2
Clerical workers .....	17,115	414	3,206	13,495	11,168	1,376	951	35.3	39.5
Blue-collar workers .....	30,805	1,234	2,295	27,276	18,133	4,277	4,866	40.2	42.8
Craft and kindred workers .....	12,417	361	504	11,552	7,416	1,803	2,333	41.5	43.1
Operatives, except transport .....	10,509	466	659	9,384	6,747	1,474	1,163	39.6	41.7
Transport equipment operatives .....	3,435	129	306	3,000	1,517	543	940	43.1	46.4
Nonfarm laborers .....	4,445	276	826	3,343	2,455	457	431	35.7	41.4
Service workers .....	12,366	799	4,141	7,426	5,522	735	1,169	32.6	42.2
Private household .....	1,075	152	529	394	275	28	91	24.6	44.3
Other service workers .....	11,291	648	3,612	7,031	5,247	707	1,077	33.4	42.1
<b>Males, 16 years and over</b> .....	52,161	1,301	4,129	46,731	28,111	6,698	11,922	41.7	40.5
White-collar workers .....	22,621	266	1,440	20,915	11,476	2,733	6,706	43.6	45.6
Professional and technical .....	8,294	74	487	7,733	4,652	942	2,139	42.7	44.4
Managers and administrators, except farm .....	7,706	69	187	7,450	3,244	1,011	3,195	47.3	48.2
Sales workers .....	3,243	69	363	2,811	1,458	391	962	42.2	45.9
Clerical workers .....	3,378	55	404	2,919	2,119	390	410	38.4	41.4
Blue-collar workers .....	24,948	867	1,627	22,454	14,374	3,576	4,504	40.9	43.3
Craft and kindred workers .....	11,709	337	410	10,962	6,977	1,722	2,263	41.8	43.2
Operatives, except transport .....	6,173	187	345	5,641	3,777	935	929	40.9	42.7
Transport equipment operatives .....	3,106	109	170	2,827	1,404	515	908	44.1	46.5
Nonfarm laborers .....	3,960	234	703	3,023	2,214	404	405	35.9	41.5
Service workers .....	4,592	168	1,062	3,362	2,261	389	712	36.8	43.7
Private household .....	26	4	17	5	2	--	3	14.9	54.7
Other service workers .....	4,566	164	1,045	3,357	2,259	389	709	36.9	43.7
<b>Females, 16 years and over</b> .....	38,929	1,738	9,084	28,107	22,230	3,065	2,812	34.4	34.9
White-collar workers .....	25,297	740	5,338	19,219	15,208	2,018	1,993	35.1	40.1
Professional and technical .....	6,312	154	1,156	5,002	3,742	576	684	36.0	40.7
Managers and administrators, except farm .....	2,553	40	246	2,267	1,362	332	573	41.4	44.2
Sales workers .....	2,695	187	1,134	1,374	1,056	124	194	29.9	40.7
Clerical workers .....	13,737	360	2,802	10,575	9,048	986	541	34.6	38.9
Blue-collar workers .....	5,858	367	668	4,823	3,760	701	362	37.1	40.4
Craft and kindred workers .....	708	24	94	590	439	81	70	37.3	40.7
Operatives, except transport .....	4,336	279	315	3,742	2,969	539	234	37.8	40.1
Transport equipment operatives .....	329	20	136	173	113	28	32	32.9	43.5
Nonfarm laborers .....	485	43	123	319	240	53	26	33.6	41.3
Service workers .....	7,774	631	3,078	4,065	3,262	346	457	30.2	41.0
Private household .....	1,049	148	511	390	272	29	89	24.9	44.2
Other service workers .....	6,725	484	2,567	3,674	2,988	318	368	31.0	40.6

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

[Numbers in thousands]

Employment status	October 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population .....	7,840	3,989	3,852	6,537	3,334	3,203	1,303	655	648
Civilian labor force .....	1,431	787	644	1,351	740	611	80	47	33
Employed .....	1,232	681	550	1,186	652	534	46	29	17
Agriculture .....	140	121	19	136	118	17	4	2	2
Nonagricultural industries .....	1,092	561	531	1,050	534	516	42	27	15
Unemployed .....	199	105	94	166	88	77	34	17	16
Unemployment rate .....	13.9	13.3	14.6	12.3	11.9	12.6	42.5	(1)	(1)
Not in labor force .....	6,409	3,202	3,207	5,186	2,594	2,592	1,223	608	615
Keeping house .....	66	12	54	63	13	51	2	--	3
Going to school .....	6,228	3,114	3,113	5,038	2,523	2,515	1,189	591	598
Unable to work .....	7	3	4	6	3	3	--	--	1
All other reasons .....	109	72	37	78	55	23	31	17	14

<sup>1</sup> 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	October 1979					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
<b>CLASS OF WORKER</b>						
<b>Total</b> .....	1,232	681	550	100.0	100.0	100.0
Nonagricultural industries .....	1,092	561	531	88.6	82.4	96.7
Wage and salary workers .....	1,012	507	505	82.1	74.4	92.0
Private household workers .....	405	111	294	32.8	16.3	53.6
Government workers .....	30	13	16	2.4	1.9	2.9
Other wage and salary workers .....	578	383	194	46.9	56.2	35.3
Self-employed workers .....	73	51	21	5.9	7.5	3.8
Unpaid family workers .....	7	2	5	.6	.3	.9
Agriculture .....	140	121	19	11.4	17.8	3.5
Wage and salary workers .....	79	69	11	6.4	10.1	2.0
Self-employed workers .....	19	19	--	1.5	2.8	--
Unpaid family workers .....	42	33	8	3.4	4.8	1.5
<b>OCCUPATION</b>						
<b>Total</b> .....	1,232	681	550	100.0	100.0	100.0
White-collar workers .....	313	202	110	25.4	29.6	20.0
Professional and technical .....	19	10	9	1.5	1.5	1.6
Managers and administrators, except farm .....	--	--	--	--	--	--
Sales workers .....	219	170	48	17.8	24.9	8.7
Clerical workers .....	75	23	53	6.1	3.4	9.6
Blue-collar workers .....	226	205	22	18.4	30.0	4.0
Craft and kindred workers .....	4	5	--	.3	.7	--
Operatives, except transport .....	46	34	12	3.7	5.0	2.2
Transport equipment operatives .....	2	2	--	.2	.3	--
Nonfarm laborers .....	174	164	10	14.1	24.0	1.8
Service workers .....	580	181	399	47.1	26.5	72.5
Private household workers .....	325	35	290	26.4	5.1	52.7
Other service workers .....	255	146	109	20.7	21.4	19.8
Farm workers .....	112	93	19	9.1	13.6	3.5
Farmers and farm managers .....	2	2	--	.2	.3	--
Farm laborers and supervisors .....	110	92	19	8.9	13.5	3.5

**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									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>TOTAL</b>													
Total noninstitutional population <sup>1</sup> .....	161,829	162,033	162,250	162,448	162,633	162,909	163,008	163,260	163,469	163,685	163,891	164,106	164,468
Armed Forces <sup>1</sup> .....	2,122	2,117	2,108	2,094	2,094	2,090	2,082	2,078	2,076	2,082	2,090	2,092	2,093
Civilian noninstitutional population <sup>1</sup> .....	159,707	159,916	160,142	160,353	160,539	160,819	160,926	161,182	161,393	161,604	161,801	162,013	162,375
Civilian labor force.....	101,077	101,628	101,867	102,183	102,527	102,714	102,111	102,247	102,528	103,059	103,049	103,498	103,474
Percent of civilian population.....	63.3	63.6	63.6	63.7	63.9	63.9	63.5	63.4	63.5	63.8	63.7	63.9	63.7
Employed.....	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210	96,900	97,513	97,293
Percent of total population.....	58.9	59.1	59.1	59.3	59.4	59.4	59.0	59.0	59.2	59.4	59.1	59.4	59.2
Agriculture.....	3,374	3,275	3,387	3,232	3,311	3,343	3,186	3,184	3,260	3,262	3,322	3,400	3,288
Nonagricultural industries.....	91,867	92,476	92,468	93,068	93,335	93,499	92,987	93,134	93,494	93,949	93,578	94,113	94,005
Unemployed.....	5,836	5,877	6,012	5,883	5,881	5,871	5,937	5,929	5,774	5,848	6,149	5,985	6,182
Unemployment rate.....	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7	6.0	5.8	6.0
Not in labor force.....	58,630	58,288	58,275	58,170	58,012	58,105	58,815	58,935	58,865	58,545	58,752	58,515	58,901
<b>Males, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	69,081	69,182	69,288	69,385	69,476	69,612	69,663	69,787	69,889	69,995	70,099	70,205	70,380
Civilian noninstitutional population <sup>1</sup> .....	67,382	67,486	67,600	67,726	67,816	67,939	67,997	68,123	68,227	68,319	68,417	68,522	68,697
Civilian labor force.....	53,593	53,938	54,033	54,333	54,485	54,444	54,243	54,261	54,395	54,567	54,527	54,653	54,696
Percent of civilian population.....	79.5	79.9	79.9	80.2	80.3	80.1	79.8	79.7	79.7	79.9	79.7	79.8	79.6
Employed.....	51,448	51,825	51,838	52,133	52,331	52,264	52,056	52,157	52,299	52,319	52,227	52,382	52,366
Percent of total population.....	74.5	74.9	74.8	75.1	75.3	75.1	74.7	74.7	74.8	74.7	74.5	74.6	74.4
Agriculture.....	2,363	2,337	2,403	2,293	2,324	2,355	2,271	2,274	2,306	2,323	2,385	2,395	2,372
Nonagricultural industries.....	49,085	49,488	49,435	49,841	50,007	49,909	49,785	49,883	49,993	49,996	49,843	49,987	49,994
Unemployed.....	2,145	2,113	2,195	2,200	2,154	2,180	2,187	2,105	2,096	2,249	2,300	2,271	2,330
Unemployment rate.....	4.0	3.9	4.1	4.0	4.0	4.0	4.0	3.9	3.9	4.1	4.2	4.2	4.3
Not in labor force.....	13,789	13,548	13,567	13,393	13,331	13,495	13,754	13,862	13,832	13,752	13,890	13,869	14,001
<b>Females, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	75,998	76,110	76,227	76,337	76,440	76,589	76,645	76,782	76,896	77,014	77,127	77,245	77,429
Civilian noninstitutional population <sup>1</sup> .....	75,889	76,001	76,119	76,228	76,332	76,476	76,532	76,670	76,784	76,897	77,006	77,124	77,308
Civilian labor force.....	37,860	38,095	38,217	38,185	38,429	38,642	38,345	38,560	38,596	39,010	39,292	39,331	39,317
Percent of civilian population.....	49.9	50.1	50.2	50.1	50.3	50.5	50.1	50.3	50.3	50.7	51.0	51.0	50.9
Employed.....	35,726	35,887	35,990	36,019	36,252	36,440	36,165	36,323	36,373	36,861	36,968	37,178	37,039
Percent of total population.....	47.0	47.2	47.2	47.2	47.4	47.6	47.2	47.3	47.3	47.9	47.9	48.1	47.8
Agriculture.....	587	571	591	586	608	613	580	543	592	584	596	640	556
Nonagricultural industries.....	35,139	35,316	35,399	35,433	35,644	35,827	35,584	35,780	35,781	36,276	36,371	36,538	36,483
Unemployed.....	2,134	2,208	2,227	2,166	2,177	2,201	2,180	2,237	2,223	2,150	2,324	2,153	2,279
Unemployment rate.....	5.6	5.8	5.8	5.7	5.7	5.7	5.7	5.8	5.8	5.5	5.9	5.5	5.8
Not in labor force.....	38,029	37,906	37,902	38,043	37,903	37,834	38,187	38,110	38,188	37,887	37,714	37,793	37,991
<b>Both sexes, 16-19 years</b>													
Total noninstitutional population <sup>1</sup> .....	16,750	16,741	16,734	16,725	16,717	16,709	16,700	16,692	16,684	16,677	16,665	16,655	16,659
Civilian noninstitutional population <sup>1</sup> .....	16,436	16,429	16,422	16,400	16,391	16,404	16,397	16,389	16,381	16,387	16,377	16,367	16,370
Civilian labor force.....	9,624	9,595	9,617	9,665	9,613	9,628	9,523	9,426	9,537	9,481	9,230	9,514	9,461
Percent of civilian population.....	58.6	58.4	58.6	58.9	58.6	58.7	58.1	57.5	58.2	57.9	56.4	58.1	57.8
Employed.....	8,067	8,039	8,027	8,148	8,064	8,138	7,953	7,839	8,082	8,031	7,705	7,953	7,888
Percent of total population.....	48.2	48.0	48.0	48.7	48.2	48.7	47.6	47.0	48.4	48.2	46.2	47.7	47.3
Agriculture.....	424	367	393	354	380	375	335	368	362	355	341	365	360
Nonagricultural industries.....	7,643	7,672	7,634	7,794	7,684	7,763	7,618	7,471	7,720	7,676	7,364	7,588	7,528
Unemployed.....	1,557	1,556	1,590	1,517	1,549	1,490	1,570	1,587	1,455	1,450	1,525	1,561	1,573
Unemployment rate.....	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3	16.5	16.4	16.6
Not in labor force.....	6,812	6,834	6,805	6,735	6,778	6,776	6,874	6,963	6,844	6,906	7,147	6,853	6,909

<sup>1</sup> 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									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>FULL TIME</b>													
Total, 16 years and over:													
Civilian labor force .....	86,185	86,391	86,631	87,025	87,373	87,567	87,430	87,300	87,637	87,700	87,596	88,153	88,403
Employed .....	81,680	81,900	82,034	82,525	82,789	83,067	82,774	82,792	83,180	83,077	82,822	83,422	83,564
Unemployed .....	4,505	4,491	4,597	4,500	4,584	4,499	4,655	4,508	4,458	4,624	4,774	4,731	4,839
Unemployment rate .....	5.2	5.2	5.3	5.2	5.2	5.1	5.3	5.2	5.1	5.3	5.4	5.4	5.5
<b>PART TIME</b>													
Total, 16 years and over:													
Civilian labor force .....	14,996	15,150	15,205	15,196	15,213	15,097	14,701	14,954	14,865	15,384	15,585	15,252	15,180
Employed .....	13,642	13,800	13,802	13,810	13,907	13,706	13,410	13,517	13,586	14,128	14,221	13,993	13,809
Unemployed .....	1,354	1,350	1,403	1,385	1,306	1,391	1,291	1,437	1,278	1,256	1,364	1,259	1,371
Unemployment rate .....	9.0	8.9	9.2	9.1	8.6	9.2	8.8	9.6	8.6	8.2	8.8	8.3	9.0

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									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>WHITE</b>													
Total, 16 years and over:													
Civilian labor force .....	89,067	89,468	89,747	90,093	90,395	90,415	89,923	90,018	90,279	90,554	90,662	91,081	90,997
Employed .....	84,565	85,013	85,125	85,543	85,941	85,938	85,479	85,515	85,871	86,093	85,829	86,395	86,243
Unemployed .....	4,502	4,455	4,622	4,550	4,453	4,478	4,444	4,503	4,409	4,460	4,832	4,687	4,755
Unemployment rate .....	5.1	5.0	5.2	5.1	4.9	5.0	4.9	5.0	4.9	4.9	5.3	5.1	5.2
Males, 20 years and over:													
Civilian labor force .....	47,791	48,103	48,202	48,466	48,639	48,527	48,411	48,401	48,535	48,617	48,573	48,675	48,677
Employed .....	46,098	46,477	46,492	46,737	47,006	46,877	46,755	46,792	46,883	46,855	46,736	46,859	46,857
Unemployed .....	1,693	1,626	1,710	1,729	1,633	1,650	1,657	1,609	1,652	1,762	1,837	1,816	1,819
Unemployment rate .....	3.5	3.4	3.5	3.6	3.4	3.4	3.4	3.3	3.4	3.6	3.8	3.7	3.7
Females, 20 years and over:													
Civilian labor force .....	32,677	32,809	32,981	32,978	33,225	33,302	33,080	33,275	33,239	33,564	33,878	33,894	33,871
Employed .....	31,074	31,161	31,287	31,340	31,567	31,638	31,460	31,572	31,589	31,982	32,108	32,268	32,149
Unemployed .....	1,603	1,648	1,694	1,638	1,658	1,664	1,619	1,703	1,650	1,582	1,769	1,626	1,721
Unemployment rate .....	4.9	5.0	5.1	5.0	5.0	5.0	4.9	5.1	5.0	4.7	5.2	4.8	5.1
Both sexes, 16 to 19 years:													
Civilian labor force .....	8,599	8,556	8,564	8,649	8,531	8,586	8,432	8,342	8,505	8,373	8,211	8,512	8,450
Employed .....	7,393	7,375	7,346	7,466	7,368	7,422	7,264	7,151	7,398	7,257	6,985	7,267	7,236
Unemployed .....	1,206	1,181	1,218	1,183	1,163	1,164	1,168	1,191	1,107	1,116	1,226	1,245	1,214
Unemployment rate .....	14.0	13.8	14.2	13.7	13.6	13.6	13.9	14.3	13.0	13.3	14.9	14.6	14.4
<b>BLACK AND OTHER</b>													
Total, 16 years and over:													
Civilian labor force .....	12,122	12,163	12,153	12,077	12,228	12,251	12,175	12,176	12,272	12,364	12,340	12,408	12,546
Employed .....	10,749	10,746	10,758	10,725	10,775	10,878	10,734	10,767	10,883	11,025	10,987	11,095	11,083
Unemployed .....	1,373	1,417	1,395	1,352	1,452	1,374	1,442	1,409	1,389	1,338	1,353	1,313	1,463
Unemployment rate .....	11.3	11.7	11.5	11.2	11.9	11.2	11.8	11.6	11.3	10.8	11.0	10.6	11.7
Males, 20 years and over:													
Civilian labor force .....	5,808	5,829	5,867	5,810	5,841	5,874	5,813	5,826	5,902	5,946	5,942	5,987	6,017
Employed .....	5,327	5,345	5,376	5,356	5,339	5,357	5,315	5,335	5,435	5,453	5,450	5,513	5,477
Unemployed .....	481	484	491	455	502	517	498	491	467	493	492	475	540
Unemployment rate .....	8.3	8.3	8.4	7.8	8.6	8.8	8.6	8.4	7.9	8.3	8.3	7.9	9.0
Females, 20 years and over:													
Civilian labor force .....	5,277	5,266	5,224	5,223	5,279	5,316	5,276	5,290	5,359	5,392	5,417	5,400	5,507
Employed .....	4,743	4,723	4,691	4,667	4,722	4,792	4,708	4,764	4,782	4,863	4,857	4,883	4,948
Unemployed .....	534	543	533	556	557	523	568	526	577	528	560	517	558
Unemployment rate .....	10.1	10.3	10.2	10.6	10.6	9.8	10.8	9.9	10.8	9.8	10.3	9.6	10.1
Both sexes, 16 to 19 years:													
Civilian labor force .....	1,037	1,068	1,062	1,044	1,107	1,061	1,086	1,059	1,011	1,026	980	1,021	1,023
Employed .....	679	678	691	703	714	727	711	668	667	709	679	699	658
Unemployed .....	358	390	371	341	393	334	375	391	344	317	301	322	365
Unemployment rate .....	34.5	36.5	34.9	32.7	35.5	31.5	34.5	36.9	34.0	30.9	30.7	31.5	35.7

# HOUSEHOLD DATA SEASONALLY ADJUSTED

## A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Selected categories	1978			1979									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>CHARACTERISTICS</b>													
Total (all civilian workers) .....	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7	6.0	5.8	6.0
Males, 20 years and over .....	4.0	3.9	4.1	4.0	4.0	4.0	4.0	3.9	3.9	4.1	4.2	4.2	4.3
Females, 20 years and over .....	5.6	5.8	5.8	5.7	5.7	5.7	5.7	5.8	5.8	5.5	5.9	5.5	5.8
Both sexes, 16-19 years .....	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3	16.5	16.4	16.6
White .....	5.1	5.0	5.2	5.1	4.9	5.0	4.9	5.0	4.9	4.9	5.3	5.1	5.2
Black and other .....	11.3	11.7	11.5	11.2	11.9	11.2	11.8	11.6	11.3	10.8	11.0	10.6	11.7
Married men, spouse present .....	2.6	2.4	2.5	2.6	2.6	2.6	2.7	2.5	2.6	2.9	3.0	2.8	2.9
Married women, spouse present .....	5.3	5.5	5.6	5.3	5.1	5.1	5.2	5.2	5.2	4.8	5.4	4.7	5.3
Women who head families .....	7.5	7.7	7.7	7.8	8.3	8.3	8.4	8.9	9.1	8.1	7.9	7.6	8.4
Full-time workers .....	5.2	5.2	5.3	5.2	5.2	5.1	5.3	5.2	5.1	5.3	5.4	5.4	5.5
Part-time workers .....	9.0	8.9	9.2	9.1	8.6	9.2	8.8	9.6	8.6	8.2	8.8	8.3	9.0
Unemployed 15 weeks and over <sup>1</sup> .....	1.3	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.1	1.0	1.2	1.1	1.2
Labor force time lost <sup>2</sup> .....	6.2	6.2	6.2	6.2	6.2	6.1	6.5	6.3	6.3	6.4	6.5	6.2	6.4
<b>OCCUPATION</b>													
White-collar workers .....	3.3	3.2	3.5	3.3	3.4	3.4	3.3	3.2	3.4	3.2	3.6	3.3	3.5
Professional and technical .....	2.8	2.4	3.0	2.5	2.3	2.1	2.2	2.0	2.5	2.5	2.6	2.5	2.8
Managers and administrators, except farm .....	1.8	2.2	1.9	2.0	1.9	2.2	2.3	2.2	2.0	1.9	2.3	2.2	2.3
Sales workers .....	4.1	3.1	3.6	3.8	4.3	4.1	4.0	4.0	4.5	3.5	4.2	3.9	3.8
Clerical workers .....	4.2	4.5	4.6	4.6	4.7	4.9	4.5	4.6	4.6	4.4	5.0	4.5	4.7
Blue-collar workers .....	6.8	6.4	6.8	6.4	6.4	6.6	6.9	6.7	6.5	6.8	7.6	7.1	7.3
Craft and kindred workers .....	4.9	4.0	4.7	4.5	4.7	4.6	4.2	4.0	4.2	4.2	4.9	4.1	4.8
Operatives, except transport .....	7.6	7.5	7.7	7.6	7.6	7.7	8.6	8.3	7.7	8.3	9.3	9.2	9.2
Transport equipment operatives .....	4.8	4.2	5.3	4.9	5.0	5.2	6.0	5.4	5.5	5.2	6.8	6.2	5.6
Nonfarm laborers .....	11.0	11.6	11.0	9.4	9.3	10.3	10.5	11.1	10.3	10.9	11.5	10.8	10.6
Service workers .....	7.1	7.4	7.7	7.9	7.1	7.2	7.4	7.2	7.2	7.2	7.0	6.7	7.0
Farm workers .....	4.6	3.2	3.4	2.8	3.6	3.2	3.4	3.5	3.1	4.5	3.8	4.2	4.3
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	5.6	5.6	5.8	5.7	5.6	5.5	5.7	5.7	5.6	5.7	6.1	5.8	6.0
Construction .....	11.2	10.8	12.1	10.6	11.5	10.2	10.3	9.6	9.6	9.5	9.5	8.8	10.1
Manufacturing .....	5.1	5.1	5.0	5.0	4.8	5.2	5.4	5.4	5.3	5.8	6.2	6.1	6.2
Durable goods .....	4.6	4.6	4.4	4.4	4.1	4.3	4.6	4.4	4.8	5.5	5.7	5.3	5.6
Nondurable goods .....	6.0	5.8	6.0	5.9	5.8	6.4	6.5	7.0	6.2	6.2	6.9	7.3	7.0
Transportation .....	3.4	3.3	3.3	3.5	3.0	4.0	2.9	3.5	3.0	3.9	3.8	4.1	3.8
Wholesale and retail trade .....	6.7	6.5	6.8	6.5	6.6	6.2	6.6	6.4	6.8	6.2	6.6	6.4	6.5
Finance and service industries .....	4.6	5.0	5.1	5.1	4.8	4.7	4.8	5.0	4.7	4.9	5.4	4.7	4.9
Government workers .....	3.9	3.9	4.0	4.0	3.7	4.1	3.6	3.5	3.6	3.5	3.8	3.3	4.1
Agricultural wage and salary workers .....	9.5	7.9	7.7	7.2	8.9	7.7	8.6	9.3	7.7	10.4	9.9	10.3	9.8

<sup>1</sup> Unemployment as a percent of civilian labor force.

as a percent of potentially available labor force hours.

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

<sup>3</sup> Includes mining, not shown separately.

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

[Numbers in thousands]

Weeks of unemployment	1978			1979									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>DURATION</b>													
Both sexes, 16 years and over:													
Less than 5 weeks .....	2,719	2,833	2,876	2,713	2,743	2,751	2,939	2,787	2,927	2,784	3,226	2,743	2,963
5 to 14 weeks .....	1,789	1,774	1,979	1,877	1,870	1,857	1,874	1,935	1,782	1,970	1,743	2,050	1,965
15 weeks and over .....	1,317	1,196	1,208	1,251	1,260	1,305	1,235	1,213	1,086	1,052	1,191	1,133	1,223
15 to 26 weeks .....	732	685	726	728	712	729	692	705	616	600	662	627	703
27 weeks and over .....	585	511	482	523	548	576	543	508	470	451	529	507	520
Average (mean) duration, in weeks .....	11.8	11.0	10.7	11.2	11.3	11.7	11.0	11.1	10.4	10.0	10.5	10.6	10.5
Median duration, in weeks .....	5.9	5.4	5.6	5.9	6.3	5.8	5.2	5.2	5.6	6.1	4.9	5.9	5.6
<b>PERCENT DISTRIBUTION</b>													
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 .....	46.7	48.8	47.4	46.4	46.7	46.5	48.6	47.0	50.5	48.0	52.4	46.3	48.2
5 to 14 weeks .....	30.7	30.6	32.6	32.1	31.8	31.4	31.0	32.6	30.8	33.9	28.3	34.6	31.9
15 weeks and over .....	22.6	20.6	19.9	21.4	21.4	22.1	20.4	20.4	18.7	18.1	19.3	19.1	19.9
15 to 26 weeks .....	12.6	11.8	12.0	12.5	12.1	12.3	11.4	11.9	10.6	10.3	10.7	10.6	11.4
27 weeks and over .....	10.0	8.8	7.9	9.0	9.3	9.7	9.0	8.6	8.1	7.8	8.6	8.5	8.4

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

Sex and age	1978			1979									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>Total, 16 years and over</b> .....	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7	6.0	5.8	6.0
16 to 19 years .....	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3	16.5	16.4	16.6
16 to 17 years .....	19.2	19.3	20.2	18.4	18.4	18.9	19.1	19.2	16.7	17.1	18.1	16.8	18.5
18 to 19 years .....	14.0	14.0	13.8	13.6	14.6	13.1	14.3	15.2	14.1	14.4	15.5	16.0	15.3
20 to 24 years .....	8.6	9.0	9.3	8.6	8.6	8.8	8.5	8.9	8.9	9.0	9.3	9.2	9.5
25 years and over .....	3.9	3.8	3.9	3.9	3.9	3.9	4.0	3.8	3.8	3.9	4.1	3.8	4.0
25 to 54 years .....	4.2	4.0	4.2	4.2	4.1	4.1	4.2	4.0	4.0	4.0	4.3	4.1	4.3
55 years and over .....	3.0	2.9	2.9	2.9	3.0	3.1	3.1	3.2	2.9	3.2	3.2	2.9	2.9
<b>Males, 16 years and over</b> .....	5.1	5.0	5.1	5.1	5.0	5.0	5.1	4.9	4.7	5.0	5.2	5.2	5.2
16 to 19 years .....	16.1	15.9	16.7	16.1	16.5	16.0	16.2	16.1	14.1	14.9	16.0	16.2	15.7
16 to 17 years .....	19.9	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 to 19 years .....	13.2	12.7	13.6	13.5	14.7	13.2	14.2	14.1	13.5	14.9	15.3	15.6	14.6
20 to 24 years .....	8.5	8.5	8.9	8.4	8.2	8.4	7.8	8.0	8.0	8.8	8.9	8.8	9.5
25 years and over .....	3.3	3.1	3.2	3.2	3.2	3.2	3.3	3.1	3.1	3.3	3.5	3.4	3.4
25 to 54 years .....	3.4	3.2	3.4	3.3	3.2	3.3	3.4	3.1	3.1	3.3	3.6	3.5	3.6
55 years and over .....	2.8	2.5	2.6	2.8	2.8	2.8	3.0	2.9	3.1	3.4	3.2	2.9	2.7
<b>Females, 16 years and over</b> .....	6.8	6.9	6.9	6.7	6.7	6.7	6.9	7.0	6.9	6.6	7.0	6.6	7.0
16 to 19 years .....	16.3	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 to 17 years .....	18.4	18.3	19.6	17.5	17.4	17.8	20.2	19.3	17.7	19.2	18.9	17.0	20.0
18 to 19 years .....	14.8	15.5	14.1	13.6	14.4	13.0	14.4	16.4	14.8	13.8	15.8	16.5	16.0
20 to 24 years .....	8.7	9.6	9.7	8.9	9.1	9.4	9.4	9.9	9.9	9.3	9.9	9.7	9.6
25 years and over .....	4.9	4.9	5.0	5.0	4.9	4.8	4.9	5.0	4.8	4.7	5.0	4.6	4.9
25 to 54 years .....	5.2	5.2	5.3	5.4	5.3	5.2	5.2	5.2	5.3	5.0	5.4	4.9	5.3
55 years and over .....	3.3	3.5	3.3	3.1	3.3	3.6	3.1	3.7	2.7	2.9	3.3	3.0	3.4

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

[Numbers in thousands]

Reason for unemployment	1978			1979									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>NUMBER OF UNEMPLOYED</b>													
<b>Both sexes, 16 years and over:</b>													
Job losers .....	2,456	2,372	2,442	2,454	2,481	2,440	2,521	2,361	2,358	2,532	2,724	2,608	2,771
On layoff .....	644	746	715	753	792	789	846	710	796	793	960	836	916
Other job losers .....	1,812	1,626	1,727	1,701	1,689	1,652	1,675	1,652	1,562	1,739	1,765	1,771	1,855
Job leavers .....	812	825	871	927	829	863	847	951	867	838	894	818	825
Reentrants .....	1,721	1,754	1,937	1,692	1,756	1,788	1,790	1,762	1,738	1,737	1,798	1,785	1,788
New entrants .....	825	872	826	823	874	822	811	841	787	694	720	803	793
<b>PERCENT DISTRIBUTION</b>													
<b>Total unemployed</b> .....	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 .....	42.2	40.7	40.2	41.6	41.8	41.3	42.2	39.9	41.0	43.7	44.4	43.4	44.9
On layoff .....	11.1	12.8	11.8	12.8	13.3	13.3	14.2	12.0	13.8	13.7	15.6	13.9	14.8
Other job losers .....	31.2	27.9	28.4	28.9	28.4	27.9	28.1	27.9	27.2	30.0	28.8	29.5	30.0
Job leavers .....	14.0	14.2	14.3	15.7	14.0	14.6	14.2	16.1	15.1	14.4	14.6	13.6	13.4
Reentrants .....	29.6	30.1	31.9	28.7	29.6	30.2	30.0	29.8	30.2	29.9	29.3	29.7	29.0
New entrants .....	14.2	15.0	13.6	14.0	14.7	13.9	13.6	14.2	13.7	12.0	11.7	13.4	12.8
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	2.4	2.3	2.4	2.4	2.4	2.4	2.5	2.3	2.3	2.5	2.6	2.5	2.7
Job leavers .....	.8	.8	.9	.9	.8	.8	.8	.9	.8	.8	.9	.8	.8
Reentrants .....	1.7	1.7	1.9	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7
New entrants .....	.8	.9	.8	.8	.9	.8	.8	.8	.8	.7	.7	.8	.8

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1978			1979									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>Total, 16 years and over</b> .....	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210	96,900	97,513	97,293
16 to 19 years .....	8,067	8,039	8,027	8,148	8,064	8,138	7,953	7,839	8,082	8,031	7,705	7,953	7,888
16 to 17 years .....	3,308	3,276	3,300	3,354	3,372	3,323	3,280	3,177	3,269	3,233	3,037	3,325	3,240
18 to 19 years .....	4,773	4,783	4,730	4,835	4,731	4,803	4,711	4,661	4,738	4,732	4,620	4,638	4,665
20 to 24 years .....	13,773	13,701	13,760	13,859	13,992	13,959	13,975	13,803	13,829	13,922	13,814	13,993	13,847
25 years and over .....	73,530	73,976	74,070	74,299	74,641	74,703	74,284	74,666	74,832	75,298	75,242	75,622	75,658
25 to 54 years .....	59,329	59,630	59,781	59,903	60,193	60,329	60,069	60,298	60,502	61,039	61,012	61,212	61,168
55 years and over .....	14,137	14,340	14,327	14,394	14,452	14,382	14,220	14,295	14,297	14,229	14,349	14,374	14,441
<b>Males, 16 years and over</b> .....	55,754	56,096	56,072	56,449	56,549	56,559	56,267	56,352	56,638	56,595	56,316	56,653	56,539
16 to 19 years .....	4,306	4,271	4,234	4,316	4,218	4,295	4,211	4,195	4,339	4,276	4,088	4,271	4,172
16 to 17 years .....	1,751	1,734	1,744	1,795	1,779	1,788	1,783	1,739	1,765	1,735	1,622	1,841	1,751
18 to 19 years .....	2,558	2,559	2,494	2,541	2,455	2,519	2,458	2,436	2,518	2,491	2,441	2,448	2,426
20 to 24 years .....	7,432	7,478	7,443	7,541	7,585	7,516	7,641	7,474	7,543	7,498	7,468	7,606	7,531
25 years and over .....	44,026	44,340	44,411	44,589	44,772	44,711	44,442	44,684	44,725	44,791	44,712	44,857	44,833
25 to 54 years .....	35,261	35,481	35,560	35,709	35,845	35,880	35,716	35,863	35,927	36,030	35,909	36,001	36,043
55 years and over .....	8,760	8,867	8,872	8,896	8,901	8,841	8,713	8,789	8,755	8,751	8,804	8,844	8,805
<b>Females, 16 years and over</b> .....	39,487	39,655	39,783	39,851	40,098	40,283	39,907	39,966	40,116	40,615	40,585	40,860	40,754
16 to 19 years .....	3,761	3,768	3,793	3,832	3,846	3,843	3,742	3,643	3,743	3,755	3,617	3,682	3,716
16 to 17 years .....	1,557	1,542	1,556	1,559	1,593	1,535	1,497	1,438	1,504	1,498	1,415	1,484	1,489
18 to 19 years .....	2,215	2,224	2,236	2,294	2,276	2,284	2,253	2,225	2,220	2,241	2,179	2,190	2,239
20 to 24 years .....	6,341	6,223	6,317	6,318	6,407	6,444	6,334	6,329	6,286	6,423	6,346	6,387	6,316
25 years and over .....	29,504	29,636	29,659	29,710	29,869	29,993	29,841	29,982	30,107	30,507	30,530	30,765	30,826
25 to 54 years .....	24,068	24,149	24,221	24,194	24,348	24,449	24,353	24,435	24,576	25,009	25,103	25,212	25,125
55 years and over .....	5,377	5,473	5,455	5,498	5,551	5,541	5,507	5,506	5,542	5,478	5,544	5,531	5,636

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

[In thousands]

Sex and age	1978			1979									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>Total, 16 years and over</b> .....	5,836	5,877	6,012	5,883	5,881	5,871	5,937	5,929	5,774	5,848	6,149	5,985	6,182
16 to 19 years .....	1,557	1,556	1,590	1,517	1,549	1,490	1,570	1,587	1,455	1,450	1,525	1,561	1,573
16 to 17 years .....	786	781	834	755	758	775	772	753	655	666	670	671	734
18 to 19 years .....	775	778	759	758	807	724	788	835	779	794	849	885	841
20 to 24 years .....	1,298	1,361	1,406	1,310	1,316	1,355	1,305	1,348	1,344	1,379	1,422	1,420	1,460
25 years and over .....	3,015	2,951	3,015	3,049	2,998	2,008	3,063	2,978	2,963	3,050	3,220	3,025	3,184
25 to 54 years .....	2,569	2,514	2,615	2,607	2,566	2,574	2,602	2,509	2,546	2,540	2,754	2,600	2,741
55 years and over .....	438	428	424	435	449	462	448	471	432	472	480	432	438
<b>Males, 16 years and over</b> .....	2,971	2,923	3,044	3,026	2,989	3,001	3,001	2,910	2,808	2,997	3,081	3,096	3,109
16 to 19 years .....	826	810	849	826	835	821	814	805	712	748	781	825	779
16 to 17 years .....	436	436	455	424	423	443	392	408	331	311	340	366	362
18 to 19 years .....	390	371	391	397	424	383	408	399	394	435	441	452	416
20 to 24 years .....	693	699	730	693	674	687	647	653	655	723	727	732	791
25 years and over .....	1,505	1,413	1,469	1,493	1,459	1,481	1,538	1,406	1,436	1,538	1,607	1,557	1,597
25 to 54 years .....	1,237	1,188	1,249	1,231	1,202	1,235	1,254	1,156	1,164	1,231	1,326	1,298	1,343
55 years and over .....	253	230	235	258	257	253	270	259	277	310	291	263	241
<b>Females, 16 years and over</b> .....	2,865	2,954	2,968	2,857	2,891	2,870	2,936	2,019	2,966	2,852	3,068	2,889	3,073
16 to 19 years .....	731	746	741	691	714	669	756	782	743	702	744	736	794
16 to 17 years .....	350	345	379	331	335	332	380	345	324	355	330	305	372
18 to 19 years .....	385	407	368	361	383	341	380	436	385	359	408	433	425
20 to 24 years .....	605	662	676	618	642	668	658	695	688	656	695	688	669
25 years and over .....	1,510	1,538	1,546	1,555	1,539	1,527	1,526	1,572	1,527	1,512	1,613	1,467	1,588
25 to 54 years .....	1,332	1,326	1,366	1,376	1,364	1,340	1,349	1,352	1,382	1,309	1,427	1,302	1,398
55 years and over .....	185	198	189	177	192	208	179	211	155	163	189	169	197



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[In thousands]

Selected categories	1978			1979									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>CHARACTERISTICS</b>													
Total, 18 years and over .....	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210	96,900	97,513	97,293
Married men, spouse present .....	38,806	38,944	39,039	39,202	39,374	39,291	38,917	38,988	39,055	39,163	39,146	39,175	39,135
Married women, spouse present .....	22,194	22,274	22,297	22,410	22,632	22,700	22,355	22,490	22,580	22,890	22,777	22,965	22,922
<b>OCCUPATION</b>													
White-collar workers .....	47,713	47,888	48,040	48,275	49,001	49,133	49,160	49,104	49,165	49,573	49,615	49,779	49,648
Professional and technical .....	14,307	14,297	14,629	14,743	15,034	15,083	15,226	15,220	15,053	15,063	14,983	15,078	14,929
Managers and administrators, except farm .....	9,968	10,030	10,217	10,322	10,414	10,407	10,409	10,374	10,565	10,675	10,772	10,640	10,648
Sales workers .....	5,986	6,192	6,092	6,055	6,141	6,067	6,079	6,091	6,065	6,161	6,085	6,114	6,247
Clerical workers .....	17,452	17,369	17,102	17,154	17,412	17,577	17,446	17,418	17,481	17,673	17,774	17,947	17,825
Blue-collar workers .....	31,986	32,202	31,962	32,491	32,331	32,085	31,582	31,826	31,958	31,949	31,767	32,287	32,191
Craft and kindred workers .....	12,556	12,646	12,610	12,842	12,932	12,808	12,697	12,790	13,003	12,832	12,755	13,057	12,974
Operatives, except transport Transport equipment operatives .....	11,178	11,177	10,887	11,047	10,953	11,060	10,651	10,664	10,759	10,853	10,880	10,987	10,989
Nonfarm laborers .....	3,581	3,640	3,640	3,678	3,618	3,565	3,550	3,667	3,596	3,610	3,571	3,622	3,561
Service workers .....	4,671	4,739	4,825	4,924	4,829	4,652	4,684	4,706	4,600	4,652	4,561	4,621	4,667
Farm workers .....	12,951	13,009	13,007	12,777	12,770	12,856	12,909	12,754	12,946	12,697	12,591	12,796	12,977
Farm workers .....	2,821	2,739	2,826	2,759	2,742	2,803	2,624	2,600	2,683	2,657	2,703	2,736	2,702
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,423	1,424	1,478	1,365	1,429	1,419	1,362	1,439	1,445	1,403	1,363	1,391	1,373
Self-employed workers .....	1,638	1,563	1,625	1,547	1,550	1,595	1,531	1,490	1,525	1,552	1,632	1,678	1,617
Unpaid family workers .....	323	293	318	293	348	324	282	270	293	294	310	327	312
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	85,363	85,578	85,579	86,169	86,346	86,592	86,195	86,129	86,309	86,277	86,227	86,891	87,032
Government .....	15,387	15,373	15,360	15,217	15,293	15,224	15,356	15,635	15,257	15,382	15,260	15,450	15,549
Private industries .....	69,976	70,205	70,219	70,952	71,053	71,368	70,839	70,494	71,051	70,895	70,967	71,441	71,483
Private households .....	1,315	1,335	1,316	1,245	1,334	1,255	1,160	1,177	1,236	1,217	1,205	1,332	1,270
Other industries .....	68,661	68,870	68,903	69,707	69,719	70,112	69,679	69,317	69,816	69,678	69,761	70,109	70,213
Self-employed workers .....	6,314	6,370	6,515	6,529	6,632	6,585	6,468	6,625	6,600	6,753	6,649	6,682	6,814
Unpaid family workers .....	453	455	460	478	456	443	471	466	482	529	443	453	421
<b>PERSONS AT WORK<sup>1</sup></b>													
<b>Nonagricultural industries</b>													
Full-time schedules .....	86,511	86,653	87,046	87,490	87,592	87,955	86,345	87,727	87,843	89,074	89,154	88,824	88,487
Part-time for economic reasons .....	71,318	71,394	71,787	72,209	72,250	72,623	71,554	72,476	72,230	73,138	73,222	73,252	73,164
Usually work full-time .....	3,164	3,131	3,058	3,159	3,147	3,179	3,312	3,307	3,416	3,340	3,355	3,111	3,230
Usually work part-time .....	1,167	1,279	1,209	1,208	1,205	1,235	1,265	1,246	1,416	1,394	1,478	1,255	1,293
Part-time for noneconomic reasons .....	1,997	1,852	1,849	1,951	1,942	1,944	2,048	2,061	2,000	1,946	1,877	1,856	1,937
Total .....	12,029	12,128	12,201	12,122	12,195	12,154	11,479	11,943	12,198	12,597	12,577	12,461	12,093

<sup>1</sup> 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			
Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	Oct. 1978	Oct. 1979	
<b>VETERANS<sup>1</sup></b>										
Total, 20 years and over .....	8,405	8,565	7,952	8,162	7,645	7,878	307	284	3.9	3.5
20 to 24 years .....	676	493	596	450	546	399	50	51	8.4	11.3
25 to 39 years .....	6,978	7,188	6,711	6,945	6,468	6,739	243	206	3.6	3.0
25 to 29 years .....	2,203	1,855	2,089	1,761	1,976	1,699	113	62	5.4	3.5
30 to 34 years .....	3,512	3,647	3,392	3,552	3,301	3,458	91	94	2.7	2.6
35 to 39 years .....	1,263	1,686	1,230	1,632	1,191	1,582	39	50	3.2	3.1
40 years and over .....	751	884	645	767	631	740	14	27	2.2	3.5
<b>NONVETERANS<sup>2</sup></b>										
Total, 25 to 39 years .....	13,937	14,855	13,292	14,209	12,844	13,690	448	519	3.4	3.7
25 to 29 years .....	6,295	6,821	5,980	6,495	5,737	6,215	243	280	4.1	4.3
30 to 34 years .....	3,997	4,261	3,804	4,089	3,693	3,957	111	132	2.9	3.2
35 to 39 years .....	3,645	3,773	3,508	3,625	3,414	3,518	94	107	2.7	3.0

<sup>1</sup> Vietnam-era veterans are those who served between August 5, 1964 and May 1975.

<sup>2</sup> 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	-	-	2,290	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	15,221	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 <sup>1</sup> .....	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	7,922	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	8,777	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	9,660	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	8,636	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:															
OCT.....	88,100	26,407	913	4,662	20,832	61,693	5,039	19,813	5,050	14,763	4,788	16,497	15,556	2,746	12,810
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
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.....	87,129	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
FEB.....	87,331	25,647	915	3,957	20,775	61,694	5,028	19,548	5,067	14,481	4,845	16,545	15,718	2,738	12,980
MAR.....	89,207	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
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
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
JUN.....	90,541	27,033	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
JUL.....	89,619	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
AUG.....	89,673	27,070	986	5,048	20,966	62,643	5,210	20,137	5,211	14,926	5,053	17,312	14,931	2,844	12,087
SEPT.....	90,255	27,156	979	4,978	21,199	63,099	5,243	20,240	5,203	15,037	5,000	17,254	15,362	2,787	12,575
OCT.....	90,851	27,107	975	4,975	21,157	63,744	5,255	20,352	5,250	15,102	5,020	17,325	15,792	2,777	13,015

<sup>1</sup> 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.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, data beginning in 1977 may differ from data published earlier. See article in the October issue for additional information, and the November Supplement for revised data.

# ESTABLISHMENT DATA EMPLOYMENT

## B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P
-	<b>TOTAL</b> .....	87,483	88,100	89,673	90,255	90,851	-	-	-	-	-
-	<b>PRIVATE SECTOR</b> .....	72,351	72,544	74,742	74,893	75,059	59,297	59,436	61,066	61,209	61,413
-	<b>MINING</b> .....	910	913	986	979	975	688	690	739	733	726
10	<b>METAL MINING</b> .....	92.9	92.9	101.0	99.3	-	72.1	71.9	77.2	75.8	-
101	Iron ores .....	25.2	25.3	25.6	25.1	-	20.6	20.6	20.3	19.8	-
102	Copper ores .....	28.9	28.8	33.1	33.0	-	22.1	22.1	25.4	25.5	-
11, 12	<b>COAL MINING</b> .....	250.4	253.2	261.9	260.6	-	209.1	211.9	219.2	218.5	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	247.4	250.2	258.9	257.6	-	206.4	209.3	216.5	215.8	-
13	<b>OIL AND GAS EXTRACTION</b> .....	441.9	442.0	492.0	488.6	-	306.7	306.5	337.7	335.0	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	187.2	187.1	208.8	204.6	-	90.8	90.2	97.8	94.7	-
138	Oil and gas field services .....	254.7	254.9	283.2	284.0	-	215.9	216.3	239.9	240.3	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	124.3	124.5	131.4	130.4	-	99.9	99.5	104.9	104.0	-
142	Crushed and broken stone .....	41.8	41.6	43.5	42.9	-	35.4	35.1	36.6	36.1	-
144	Sand and gravel .....	38.8	39.1	42.0	42.0	-	-	-	-	-	-
147	Chemical and fertilizer minerals .....	23.8	23.9	25.0	24.8	-	-	-	-	-	-
-	<b>CONSTRUCTION</b> .....	4,644	4,662	5,048	4,978	4,975	3,751	3,772	4,093	4,025	4,029
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	1,336.3	1,343.2	1,436.0	1,400.5	-	1,055.6	1,066.8	1,131.2	1,096.1	-
152	Residential building construction .....	712.7	717.5	757.5	728.8	-	553.7	562.0	583.1	556.3	-
153	Operative builders .....	84.8	83.4	88.5	87.3	-	56.5	55.9	57.7	55.8	-
154	Nonresidential building construction .....	538.8	542.3	590.0	584.4	-	445.4	448.9	490.4	484.0	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	959.1	951.6	1,015.7	1,001.7	-	796.9	791.3	861.2	846.3	-
161	Highway and street construction .....	319.8	317.2	359.2	351.7	-	279.9	277.1	315.9	309.2	-
162	Heavy construction, except highway .....	639.3	634.4	656.5	650.0	-	517.0	514.2	545.3	537.1	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	2,349.0	2,367.1	2,595.9	2,575.4	-	1,898.4	1,913.8	2,101.0	2,082.8	-
171	Plumbing, heating, air conditioning .....	543.8	546.6	566.8	565.0	-	420.2	422.3	434.9	432.6	-
172	Painting, paper hanging, decorating .....	153.3	155.3	181.9	175.7	-	130.6	132.3	155.8	149.4	-
173	Electrical work .....	392.7	394.4	425.6	424.9	-	309.9	310.5	336.1	335.6	-
174	Masonry, stonework, and plastering .....	375.7	384.8	439.7	431.6	-	328.0	336.6	384.2	377.4	-
175	Carpentering and flooring .....	148.7	150.1	157.2	155.2	-	117.7	119.0	123.7	121.6	-
176	Roofing and sheet metal work .....	173.7	177.8	195.5	194.3	-	144.3	147.8	160.0	159.6	-
-	<b>MANUFACTURING</b> .....	20,821	20,832	20,996	21,199	21,157	15,004	15,003	14,960	15,178	15,172
24, 25, 32-39	<b>DURABLE GOODS</b> .....	12,441	12,508	12,598	12,812	12,775	8,938	8,994	8,907	9,123	9,116
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	8,380	8,324	8,398	8,387	8,382	6,066	6,009	6,053	6,055	6,056
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	766.4	763.0	780.0	778.4	776.6	656.4	653.2	667.2	664.9	662.0
241	Logging camps and logging contractors .....	90.7	89.8	97.6	95.5	-	74.6	74.2	82.4	80.8	-
242	Sawmills and planing mills .....	233.3	232.4	238.5	237.1	-	209.0	207.9	213.3	212.3	-
2421	Sawmills and planing mills, general .....	192.8	191.8	196.9	195.6	-	173.4	172.2	176.7	175.8	-
2426	Hardwood dimension and flooring .....	33.5	33.6	33.1	32.8	-	29.4	29.5	29.0	28.8	-
243	Millwork, plywood, and structural members .....	227.0	225.3	226.6	228.0	-	192.2	190.4	190.9	191.3	-
2431	Millwork .....	80.3	79.7	77.3	77.9	-	66.4	65.8	62.8	63.1	-
2434	Wood kitchen cabinets .....	50.5	49.8	52.3	51.8	-	42.2	41.3	44.6	44.3	-
2435	Hardwood veneer and plywood .....	27.4	27.5	27.3	27.2	-	24.5	24.5	24.3	24.2	-
2436	Softwood veneer and plywood .....	50.1	49.8	50.8	50.7	-	43.9	43.8	44.2	44.2	-
244	Wooden containers .....	43.1	43.6	43.2	43.0	-	38.1	38.6	38.0	37.6	-
245	Wood buildings and mobile homes .....	88.7	87.4	88.0	87.6	-	72.3	70.9	70.7	69.9	-
2451	Mobile homes .....	60.3	59.8	60.8	60.9	-	51.3	50.8	50.9	50.5	-
249	Miscellaneous wood products .....	83.6	84.5	86.1	87.2	-	70.2	71.2	71.9	73.0	-
25	<b>FURNITURE AND FIXTURES</b> .....	493.5	496.2	483.5	486.4	489.0	405.7	408.1	393.7	396.7	399.2
251	Household furniture .....	330.2	332.2	318.2	320.8	-	280.6	282.5	268.2	270.6	-
2511	Wood household furniture .....	145.8	146.3	141.6	142.1	-	129.0	129.4	125.0	125.6	-
2512	Upholstered household furniture .....	102.6	103.3	98.3	98.8	-	85.0	85.8	80.3	80.7	-
2514	Metal household furniture .....	31.1	31.8	29.4	30.8	-	24.8	25.5	23.4	24.6	-
2515	Mattresses and bedsprings .....	33.4	33.5	32.3	32.6	-	26.3	26.2	25.0	25.2	-
252	Office furniture .....	47.3	47.6	47.2	47.0	-	38.5	38.7	37.7	37.7	-
253	Public building and related furniture .....	26.2	26.1	25.4	25.5	-	20.0	19.8	19.3	19.3	-
254	Partitions and fixtures .....	62.9	63.5	65.9	66.0	-	47.9	48.4	49.9	50.0	-
259	Miscellaneous furniture and fixtures .....	26.9	26.8	26.8	27.1	-	18.7	18.7	18.6	19.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P
<b>32</b>	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	712.8	713.3	728.2	723.9	719.4	566.6	567.1	574.4	571.8	567.4
321	Flat glass	19.6	19.5	20.3	20.7	-	15.0	14.9	15.5	16.0	-
322	Glass and glassware, pressed or blown	136.3	136.1	131.3	131.8	-	117.3	116.9	112.3	112.7	-
3221	Glass containers	76.9	76.3	73.2	72.0	-	68.2	67.4	64.3	63.3	-
3229	Pressed and blown glass, nec	59.4	59.8	58.1	59.8	-	49.1	49.5	48.0	49.4	-
323	Products of purchased glass	48.3	49.0	49.8	50.5	-	34.6	35.9	36.0	36.8	-
324	Cement, hydraulic	32.5	32.5	34.0	33.5	-	25.8	25.9	27.6	27.0	-
325	Structural clay products	51.0	51.1	50.6	49.6	-	40.2	40.3	39.0	38.1	-
326	Pottery and related products	46.3	47.0	46.5	46.9	-	39.1	39.4	39.0	39.6	-
327	Concrete, gypsum, and plaster products	221.9	220.6	231.1	227.5	-	175.4	174.1	181.6	178.5	-
3271	Concrete block and brick	25.4	25.4	26.4	25.7	-	18.0	18.1	18.9	18.2	-
3272	Concrete products, nec	74.7	74.6	76.4	75.6	-	58.7	58.4	59.1	58.5	-
3273	Ready-mixed concrete	100.0	99.1	105.8	103.9	-	80.8	80.0	85.1	83.5	-
329	Misc. nonmetallic mineral products	143.9	144.6	151.2	150.0	-	108.7	109.2	112.6	112.3	-
3291	Abrasive products	28.3	28.7	30.1	29.6	-	19.3	19.7	20.8	20.4	-
3292	Asbestos products	22.4	22.8	22.9	22.5	-	17.4	17.7	17.7	17.4	-
3296	Mineral wool	30.8	30.6	32.1	32.3	-	-	-	-	-	-
<b>33</b>	<b>PRIMARY METAL INDUSTRIES</b>	1,230.8	1,227.6	1,244.5	1,245.9	1,235.2	968.0	967.1	975.4	979.5	968.5
331	Blast furnace and basic steel products	566.7	562.9	577.8	568.3	-	448.5	445.6	457.0	449.2	-
3312	Blast furnaces and steel mills	478.6	474.7	487.1	477.7	-	380.8	377.5	386.6	378.6	-
3317	Steel pipe and tubes	30.7	30.7	31.4	31.7	-	23.8	24.0	24.6	25.0	-
332	Iron and steel foundries	240.3	239.3	231.2	238.0	-	195.9	195.9	186.3	194.0	-
3321	Gray iron foundries	152.3	150.4	140.4	146.8	-	126.2	125.4	114.8	121.7	-
3322	Malleable iron foundries	22.6	22.9	20.6	20.5	-	18.4	18.7	16.1	16.2	-
3325	Steel foundries, nec	53.2	53.5	55.8	56.0	-	42.7	42.9	44.3	44.6	-
333	Primary nonferrous metals	71.3	71.0	73.5	72.8	-	55.7	55.5	57.0	56.6	-
3334	Primary aluminum	36.2	36.0	37.9	37.4	-	29.4	29.2	30.4	30.0	-
335	Nonferrous rolling and drawing	213.3	214.5	216.3	220.1	-	155.9	157.1	158.8	162.1	-
3351	Copper rolling and drawing	33.2	33.3	33.6	33.6	-	25.8	25.9	26.2	26.2	-
3353	Aluminum sheet, plate, and foil	34.9	35.0	35.9	36.2	-	26.1	26.3	27.7	27.6	-
3357	Nonferrous wire drawing and insulating	44.8	45.6	46.6	49.2	-	32.8	33.6	36.7	38.4	-
336	Nonferrous foundries	93.7	94.2	95.8	96.4	-	77.3	78.1	78.1	78.9	-
3361	Aluminum foundries	52.4	53.3	54.4	55.1	-	43.9	44.9	45.2	45.8	-
<b>34</b>	<b>FABRICATED METAL PRODUCTS</b>	1,696.8	1,707.2	1,716.1	1,736.3	1,745.3	1,289.4	1,298.7	1,290.5	1,312.4	1,316.3
341	Metal cans and shipping containers	80.3	78.0	79.6	79.3	-	67.7	65.5	67.5	67.0	-
3411	Metal cans	66.5	64.2	65.1	64.8	-	56.4	54.2	55.6	55.1	-
342	Cutlery, hand tools, and hardware	183.3	185.5	181.7	182.2	-	142.4	144.4	139.9	141.0	-
3423,5	Hand and edge tools, and hand saws and blades	63.8	64.3	65.2	64.4	-	49.9	50.5	50.9	50.6	-
3429	Hardware, nec	103.2	104.7	100.5	101.8	-	80.5	81.8	77.5	78.9	-
343	Plumbing and heating, except electric	74.9	75.3	76.8	77.5	-	55.8	56.5	57.2	57.8	-
3432	Plumbing fittings and brass goods	28.2	28.2	29.6	29.4	-	22.9	23.0	24.4	24.2	-
3433	Heating equipment, except electric	36.0	36.6	35.6	36.7	-	25.3	25.9	24.8	25.7	-
344	Fabricated structural metal products	514.9	517.0	523.1	531.8	-	366.9	368.0	367.4	377.0	-
3441	Fabricated structural metal	100.7	101.4	107.2	108.4	-	72.4	73.3	77.5	78.5	-
3442	Metal doors, sash, and trim	88.2	88.6	89.0	90.1	-	66.9	66.9	67.0	67.8	-
3443	Fabricated plate work (boiler shops)	147.1	147.3	144.8	150.6	-	96.1	96.3	91.1	98.6	-
3444	Sheet metal work	106.5	107.1	109.3	109.7	-	79.8	80.0	80.9	81.2	-
3448	Architectural metal work	31.1	31.3	31.6	31.7	-	22.6	22.7	22.9	23.0	-
345	Screw machine products, bolts, etc.	111.1	112.7	120.3	120.7	-	87.3	88.5	94.8	95.0	-
3451	Screw machine products	52.9	53.7	57.5	57.8	-	43.8	44.3	47.8	48.0	-
3452	Bolts, nuts, rivets, and washers	58.2	59.0	62.8	62.9	-	43.5	44.2	47.0	47.0	-
346	Metal forgings and stampings	309.1	311.6	293.2	303.2	-	250.1	253.2	232.3	243.0	-
3462	Iron and steel forgings	53.1	53.5	54.0	56.2	-	42.3	42.7	41.8	43.9	-
3465	Automotive stampings	118.7	120.3	97.3	106.1	-	99.9	101.8	79.1	88.4	-
3469	Metal stampings, nec	126.3	127.1	130.5	129.5	-	99.4	100.4	102.5	101.7	-
347	Metal services, nec	104.5	106.2	108.7	108.8	-	85.8	87.4	88.9	88.7	-
3471	Plating and polishing	71.3	72.7	73.4	73.4	-	59.4	60.7	60.8	60.6	-
3479	Metal coating and allied services	33.2	33.5	35.3	35.4	-	26.4	26.7	28.1	28.1	-
348	Ordinance and accessories, nec	60.8	60.7	60.2	59.7	-	42.5	42.3	41.0	40.5	-
3483	Ammunition, exc. for small arms, nec	26.2	26.2	26.7	26.5	-	18.3	18.3	18.4	18.3	-
349	Misc. fabricated metal products	257.9	260.2	272.5	273.1	-	190.9	192.9	201.5	202.4	-
3494	Valves and pipe fittings	101.4	101.4	107.6	108.4	-	69.0	68.9	73.3	74.3	-
3496	Misc. fabricated wire products	54.2	54.6	57.0	56.9	-	41.9	42.3	44.2	44.2	-
<b>35</b>	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2,344.4	2,362.1	2,467.1	2,498.8	2,450.2	1,539.4	1,553.8	1,599.9	1,638.1	1,619.2
351	Engines and turbines	137.0	138.0	142.7	142.9	-	89.4	90.6	93.3	93.9	-
3511	Turbines and turbine generator sets	43.8	43.6	41.3	41.1	-	23.2	23.1	21.0	21.1	-
3519	Internal combustion engines, nec	93.2	94.4	101.4	101.8	-	66.2	67.5	72.3	72.8	-
352	Farm and garden machinery	162.3	164.8	169.1	177.2	-	113.4	115.1	116.3	125.7	-
3523	Farm machinery and equipment	144.3	146.8	151.7	157.3	-	101.2	102.9	105.0	111.9	-
353	Construction and related machinery	383.6	387.2	411.5	416.6	-	256.0	258.7	270.1	276.7	-
3531	Construction machinery	168.5	169.7	177.6	179.7	-	115.2	116.1	119.0	122.4	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P
<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>											
3532	Mining machinery.....	36.4	36.8	39.6	39.9	-	23.3	23.6	25.1	25.4	-
3533	Oil field machinery.....	79.2	80.0	86.3	86.8	-	54.9	55.6	58.7	58.8	-
3535	Conveyers and conveying equipment.....	33.6	33.9	36.6	37.0	-	19.7	19.9	20.9	21.4	-
3537	Industrial trucks and tractors.....	36.3	36.8	39.9	39.8	-	25.2	25.5	27.8	27.6	-
354	Metalworking machinery.....	348.1	349.9	368.2	371.6	-	254.4	255.1	265.7	270.3	-
3541	Machine tools, metal cutting types.....	72.8	72.4	79.3	80.1	-	47.3	46.4	50.4	51.5	-
3542	Machine tools, metal forming types.....	25.1	25.1	26.8	26.8	-	16.6	16.6	17.4	17.7	-
3544	Special dies, tools, jigs, and fixtures.....	129.0	130.4	133.7	134.9	-	103.6	104.7	106.0	107.5	-
3545	Machine tool accessories.....	62.9	63.3	67.8	68.1	-	44.9	45.0	47.7	48.2	-
3546	Power driven hand tools.....	34.4	34.6	36.1	37.0	-	25.8	26.0	27.6	28.6	-
355	Special industry machinery.....	199.0	199.6	208.5	209.5	-	124.2	124.8	130.2	131.7	-
3551	Food products machinery.....	46.1	46.0	48.3	48.6	-	28.3	28.4	30.4	30.5	-
3562	Textile machinery.....	26.8	26.3	27.2	27.4	-	18.9	18.5	19.0	19.3	-
3555	Printing trades machinery.....	38.4	38.7	42.6	42.6	-	22.7	22.9	25.5	26.1	-
356	General industrial machinery.....	315.3	316.6	323.3	325.0	-	210.2	211.4	210.9	213.7	-
3561	Pumps and pumping equipment.....	60.0	59.8	60.2	61.0	-	37.1	37.0	35.9	37.2	-
3562	Ball and roller bearings.....	56.9	57.3	56.8	56.5	-	43.7	44.2	43.2	43.1	-
3563	Air and gas compressors.....	30.9	31.3	30.7	30.7	-	17.9	18.3	17.9	17.9	-
3564	Blowers and fans.....	39.5	39.7	40.9	42.1	-	25.2	25.3	24.7	25.8	-
3566	Speed changers, drives, and gears.....	25.5	25.6	27.7	27.8	-	17.5	17.6	18.8	19.0	-
3568	Power transmission equipment, nec.....	24.0	24.3	24.3	24.6	-	17.5	17.7	17.6	17.9	-
357	Office and computing machines.....	352.8	355.3	399.0	391.8	-	160.0	162.5	178.4	181.6	-
3573	Electronic computing equipment.....	278.9	281.5	313.9	315.9	-	114.8	117.5	134.1	136.4	-
358	Refrigeration and service machinery.....	184.2	186.5	176.9	182.9	-	130.1	131.8	120.8	127.0	-
3585	Refrigeration and heating equipment.....	127.4	129.2	119.7	125.1	-	90.1	91.5	81.4	87.0	-
359	Misc. machinery, except electrical.....	262.1	264.2	277.9	281.3	-	201.7	203.8	214.2	217.5	-
3592	Carburetors, pistons, rings, valves.....	41.3	41.7	43.2	44.7	-	32.6	32.9	34.1	35.2	-
3599	Machinery, except electrical, nec.....	220.8	222.5	234.7	236.6	-	169.1	170.9	180.1	182.3	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT.....</b>	<b>2,029.3</b>	<b>2,042.9</b>	<b>2,089.5</b>	<b>2,133.6</b>	<b>2,145.7</b>	<b>1,332.6</b>	<b>1,342.3</b>	<b>1,353.6</b>	<b>1,384.3</b>	<b>1,402.2</b>
361	Electric distributing equipment.....	122.0	122.1	113.5	120.4	-	87.2	87.5	80.2	85.4	-
3612	Transformers.....	55.4	55.5	51.7	54.6	-	39.2	39.4	37.2	39.7	-
3613	Switchgear and switchboard apparatus.....	66.6	66.6	61.8	65.8	-	48.0	48.1	43.0	45.7	-
362	Electrical industrial apparatus.....	250.1	251.2	251.8	260.4	-	179.8	180.4	178.8	184.2	-
3621	Motors and generators.....	136.8	137.6	128.6	136.6	-	102.7	103.5	95.4	102.2	-
3622	Industrial controls.....	66.8	67.0	73.4	73.5	-	43.6	43.5	47.4	45.5	-
363	Household appliances.....	184.0	183.2	175.0	178.8	-	145.0	144.7	137.9	141.4	-
3632	Household refrigerators and freezers.....	42.4	40.9	37.1	38.3	-	33.0	31.8	29.6	30.7	-
3633	Household laundry equipment.....	23.0	22.8	23.1	23.9	-	17.9	17.8	18.1	18.9	-
3634	Electric housewares and fans.....	55.5	56.2	52.5	53.0	-	44.8	45.4	41.9	42.2	-
364	Electric lighting and wiring equipment.....	223.3	223.9	221.9	229.2	-	169.4	170.2	165.8	172.5	-
3641	Electric lamps.....	37.9	38.1	33.9	38.8	-	33.3	33.4	29.6	34.4	-
3643	Current-carrying wiring devices.....	92.9	93.2	98.1	98.7	-	65.9	66.3	68.2	68.7	-
3644	Noncurrent-carrying wiring devices.....	22.0	22.2	22.6	22.8	-	15.9	16.2	16.5	16.7	-
3645	Residential lighting fixtures.....	26.9	26.9	27.8	27.7	-	20.8	20.9	21.6	21.3	-
365	Radio and TV receiving equipment.....	119.0	120.4	110.9	114.5	-	88.9	90.1	82.3	85.8	-
3651	Radio and TV receiving sets.....	93.5	94.3	89.7	90.6	-	68.7	69.2	65.3	65.9	-
366	Communication equipment.....	499.4	503.5	531.7	538.8	-	243.9	246.4	262.8	263.1	-
3661	Telephone and telegraph apparatus.....	151.7	153.2	162.2	163.2	-	105.0	106.0	113.7	114.7	-
3662	Radio and TV communication equipment.....	347.7	350.3	369.5	375.6	-	138.9	140.4	149.1	148.4	-
367	Electronic components and accessories.....	466.7	472.0	522.6	524.7	-	294.5	297.4	327.7	328.6	-
3671-3	Electronic tubes.....	41.6	41.7	44.3	44.9	-	27.4	27.3	28.1	28.4	-
3674	Semiconductors and related devices.....	172.0	175.2	195.6	198.0	-	80.9	82.8	90.8	91.8	-
3679	Electronic components, nec.....	185.2	186.8	207.3	206.8	-	131.5	132.3	147.7	147.2	-
369	Misc. electrical equipment and supplies.....	164.3	166.6	162.1	166.8	-	123.9	125.6	118.1	123.3	-
3691	Storage batteries.....	31.2	31.7	32.1	32.9	-	24.6	25.2	25.5	26.5	-
3694	Engine electrical equipment.....	78.3	79.3	72.1	74.6	-	62.0	62.9	54.4	57.1	-
37	<b>TRANSPORTATION EQUIPMENT.....</b>	<b>2,034.8</b>	<b>2,053.5</b>	<b>1,933.2</b>	<b>2,053.6</b>	<b>2,049.0</b>	<b>1,412.0</b>	<b>1,429.0</b>	<b>1,278.3</b>	<b>1,398.9</b>	<b>1,395.2</b>
371	Motor vehicles and equipment.....	1,023.4	1,033.6	871.6	974.7	-	799.1	810.3	643.6	750.2	-
3711	Motor vehicles and car bodies.....	474.6	478.0	362.0	446.4	-	354.4	358.6	241.8	328.4	-
3713	Truck and bus bodies.....	48.4	48.0	42.2	47.7	-	39.5	39.1	32.2	38.0	-
3714	Motor vehicle parts and accessories.....	467.3	474.6	433.6	447.1	-	379.0	386.5	343.2	357.7	-
3715	Truck trailers.....	33.1	33.0	33.8	33.5	-	26.2	26.1	26.4	26.1	-
372	Aircraft and parts.....	541.9	548.8	607.4	619.1	-	286.5	292.1	326.3	334.2	-
3721	Aircraft.....	300.3	304.7	341.5	344.5	-	143.4	146.9	169.0	173.3	-
3724	Aircraft engines and engine parts.....	135.2	136.2	146.6	151.7	-	75.8	76.7	81.7	82.0	-
3728	Aircraft equipment, nec.....	106.3	107.9	119.3	122.9	-	67.3	68.5	75.6	78.9	-
373	Ship and boat building and repairing.....	219.8	220.9	213.3	217.2	-	176.8	177.8	170.2	174.1	-
3731	Ship building and repairing.....	166.5	166.8	166.1	168.9	-	133.1	133.2	132.1	134.1	-
3732	Boat building and repairing.....	53.3	54.1	47.2	48.3	-	43.7	44.6	38.1	40.0	-
374	Railroad equipment.....	65.5	67.1	70.6	71.9	-	50.2	51.1	54.3	55.4	-
376	Guided missiles, space vehicles, parts.....	93.1	92.8	99.7	100.0	-	28.6	28.0	32.0	32.2	-
3761	Guided missiles and space vehicles.....	74.1	73.8	78.5	78.7	-	20.7	20.1	23.2	23.3	-

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 <sup>1</sup>				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
379	Miscellaneous transportation equipment .....	74.0	73.1	51.4	51.3	-	57.4	56.3	36.6	37.3	-
3782	Travel trailers and campers .....	52.2	51.0	30.1	30.0	-	42.1	40.7	22.1	22.6	-
<b>INSTRUMENTS AND RELATED PRODUCTS</b>											
38	Engineering and scientific instruments .....	662.0	665.4	695.3	691.8	697.4	406.6	408.4	421.0	419.2	426.4
381	Measuring and controlling devices .....	65.7	66.9	73.8	73.8	-	32.7	33.4	36.9	37.2	-
382	Environmental controls .....	218.5	217.9	230.3	230.5	-	138.9	138.7	146.0	146.8	-
3822	Process control instruments .....	47.2	47.4	46.7	46.4	-	32.5	32.6	32.5	32.7	-
3823	Instruments to measure electricity .....	49.0	49.7	49.7	50.5	-	25.5	26.6	25.1	26.0	-
3825	Optical instruments and lenses .....	85.6	85.1	94.9	94.0	-	54.8	54.3	60.2	59.3	-
383	Medical instruments and supplies .....	28.4	28.7	31.7	31.8	-	16.0	16.3	17.7	17.8	-
384	Surgical and medical instruments .....	139.7	140.8	146.6	145.7	-	92.8	93.3	95.0	94.3	-
3841	Surgical appliances and supplies .....	59.3	60.0	62.8	62.2	-	39.4	39.7	40.1	39.7	-
3842	Ophthalmic goods .....	63.0	63.3	66.2	66.5	-	42.1	42.4	43.5	43.8	-
385	Photographic equipment and supplies .....	44.9	44.5	44.9	45.5	-	33.1	32.9	32.9	33.0	-
386	Watches, clocks, and watchcases .....	133.9	135.4	139.1	135.7	-	69.1	69.5	70.3	67.9	-
387	Signs and advertising displays .....	30.9	31.2	28.9	28.8	-	24.0	24.3	22.2	22.2	-
<b>MISCELLANEOUS MANUFACTURING</b>											
<b>INDUSTRIES</b>											
39	Jewelry, silverware, and plated ware .....	470.6	476.5	460.6	463.1	467.3	360.9	366.4	352.9	357.1	359.8
391	Jewelry, precious metal .....	65.4	66.0	59.4	60.1	-	48.4	48.8	43.6	45.2	-
3911	Musical instruments .....	43.0	43.1	37.7	38.2	-	31.3	31.3	27.6	29.0	-
393	Toys and sporting goods .....	25.9	25.9	24.4	24.7	-	21.3	21.2	19.9	20.3	-
394	Dolls, games, toys, and children's vehicles .....	130.2	131.7	127.9	129.9	-	101.2	103.1	99.0	101.0	-
3942, 4	Sporting and athletic goods, nec .....	68.8	70.2	66.4	68.4	-	52.9	54.6	50.5	52.3	-
3949	Pens, pencils, office and art supplies .....	61.4	61.5	61.5	61.5	-	48.3	48.5	48.5	48.7	-
395	Costume jewelry and notions .....	38.4	38.7	41.5	42.1	-	27.7	28.1	30.0	30.6	-
396	Costume jewelry .....	65.5	67.8	61.8	60.7	-	53.1	55.0	49.9	48.6	-
3961	Miscellaneous manufactures .....	36.9	38.5	34.8	33.9	-	30.2	31.5	28.4	27.4	-
399	Signs and advertising displays .....	145.2	146.4	145.6	145.6	-	109.2	110.2	110.5	111.4	-
3993	Signs and advertising displays .....	48.4	48.8	50.1	50.1	-	35.1	35.4	36.6	37.0	-
<b>NONDURABLE GOODS</b>											
<b>FOOD AND KINDRED PRODUCTS</b>											
20	Meat products .....	1,825.5	1,768.2	1,810.0	1,814.3	1,775.9	1,273.4	1,217.9	1,263.6	1,270.2	1,231.1
201	Meat packing plants .....	358.5	357.8	367.4	365.5	-	296.3	296.6	306.8	305.1	-
2011	Sausages and other prepared meats .....	169.6	168.5	165.9	164.4	-	136.8	136.3	135.2	134.0	-
2013	Poultry dressing plants .....	71.4	71.1	69.8	69.8	-	52.5	52.4	51.3	51.2	-
2016	Dairy products .....	104.9	105.2	118.1	117.6	-	95.8	96.3	108.5	108.1	-
202	Cheese, natural and processed .....	185.1	183.6	187.6	184.6	-	98.0	96.3	100.7	98.0	-
2022	Fluid milk .....	32.5	32.1	33.5	32.8	-	25.4	25.0	26.1	25.4	-
2026	Preserved fruits and vegetables .....	117.9	117.4	117.2	116.5	-	51.2	50.4	51.3	50.7	-
203	Canned specialties .....	338.8	277.1	317.4	328.0	-	290.4	229.1	269.8	280.1	-
2032	Canned fruits and vegetables .....	29.1	27.2	26.3	27.6	-	20.0	19.4	18.6	19.9	-
2033	Frozen fruits and vegetables .....	165.4	104.5	155.2	161.6	-	146.9	86.2	137.8	142.8	-
2037	Grain mill products .....	58.2	59.2	55.3	57.6	-	51.2	52.1	47.7	50.7	-
204	Flour and other grain mill products .....	146.5	147.1	145.7	144.9	-	99.6	100.4	99.9	99.1	-
2041	Prepared feeds, nec .....	25.9	26.0	26.5	26.1	-	16.2	16.4	16.6	16.1	-
2048	Bakery products .....	59.2	59.4	59.4	59.4	-	37.7	37.9	38.4	38.4	-
205	Bread, cake, and related products .....	235.7	235.5	235.1	234.7	-	137.4	136.9	137.8	137.3	-
2051	Cookies and crackers .....	191.9	191.3	191.9	191.0	-	102.5	102.3	104.1	103.2	-
2052	Sugar and confectionery products .....	43.8	43.7	43.2	43.7	-	34.9	34.6	33.7	34.1	-
206	Cane and beet sugar .....	112.6	121.9	107.6	110.0	-	86.5	95.6	82.1	84.5	-
2061-3	Confectionery products .....	32.1	39.1	26.1	26.4	-	23.5	29.9	18.1	18.4	-
2065	Fats and oils .....	59.4	61.7	60.5	62.3	-	47.6	50.2	48.9	50.7	-
207	Beverages .....	40.4	41.2	38.8	38.6	-	29.0	29.8	28.0	28.0	-
208	Malt beverages .....	233.3	231.0	235.8	234.6	-	110.6	109.1	108.7	108.9	-
2082	Bottled and canned soft drinks .....	50.9	50.1	50.9	50.6	-	34.1	33.6	35.0	34.5	-
2086	Misc. foods and kindred products .....	137.2	135.4	142.7	139.5	-	49.5	47.8	49.9	48.5	-
209	Misc. foods and kindred products .....	174.4	173.0	174.6	173.4	-	125.6	124.1	129.8	129.2	-
<b>TOBACCO MANUFACTURES</b>											
21	Cigarettes .....	75.7	76.4	69.0	72.5	73.6	61.4	62.2	55.1	58.5	59.6
211	Cigarettes .....	44.1	44.2	44.4	44.1	-	34.3	34.6	34.5	34.1	-
<b>TEXTILE MILL PRODUCTS</b>											
22	Weaving mills, cotton .....	903.1	900.0	890.4	889.1	892.4	786.6	783.8	775.7	775.0	778.5
221	Weaving mills, synthetics .....	147.6	148.2	150.4	149.8	-	132.5	133.3	135.2	135.0	-
222	Weaving and finishing mills, wool .....	124.9	125.2	124.9	123.5	-	111.6	111.9	111.9	111.0	-
223	Narrow fabric mills .....	20.8	21.0	21.0	20.9	-	17.4	17.5	17.4	17.3	-
224	Knitting mills .....	25.8	25.9	25.3	25.4	-	22.6	22.7	22.1	22.2	-
225	Women's hosiery, except socks .....	241.3	239.1	233.6	232.5	-	208.6	206.8	202.1	201.4	-
2251	Hosiery, nec .....	26.8	29.3	30.2	30.2	-	25.7	26.2	27.0	27.1	-
2252	Knit outerwear mills .....	34.9	34.7	34.8	34.2	-	31.7	31.6	31.7	31.1	-
2253	Knit underwear mills .....	82.7	80.5	77.4	77.2	-	70.7	68.7	66.6	66.4	-
2254	Knit underwear mills .....	34.1	34.1	33.3	33.4	-	29.2	29.3	28.7	28.8	-

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 <sup>1</sup>				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p
	<b>TEXTILE MILL PRODUCTS—Continued</b>										
2257	Circular knit fabric mills	35.0	35.2	32.9	32.6	-	29.5	29.5	27.2	27.2	-
226	Textile finishing, except wool	72.3	76.3	76.1	76.7	-	67.3	64.5	64.1	64.4	-
2261	Finishing plants, cotton	33.2	33.5	32.1	32.1	-	27.8	28.1	26.7	26.7	-
2262	Finishing plants, synthetics	29.5	26.5	27.9	28.2	-	25.2	22.4	23.6	23.7	-
227	Floor covering mills	62.1	62.7	61.3	61.5	-	50.5	51.0	50.0	50.2	-
228	Yarn and thread mills	131.2	131.6	130.7	131.1	-	119.5	119.7	119.2	119.3	-
2281	Yarn mills, except wool	87.8	88.4	88.5	88.7	-	81.2	81.7	82.1	82.2	-
2282	Throwing and winding mills	22.1	22.3	21.4	21.6	-	19.7	19.8	19.0	19.1	-
229	Miscellaneous textile goods	70.2	70.0	67.2	67.7	-	56.6	56.4	53.7	54.2	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,348.1	1,348.3	1,308.9	1,310.7	1,322.2	1,161.3	1,160.3	1,117.0	1,119.5	1,132.7
231	Men's and boys' suits and coats	91.6	90.8	86.5	84.9	-	80.4	79.6	74.4	73.5	-
232	Men's and boys' furnishings	369.5	365.9	369.8	367.3	-	319.9	316.1	318.1	315.9	-
2321	Men's and boys' shirts and nightwear	138.2	108.5	106.7	107.0	-	94.3	94.3	93.2	93.4	-
2327	Men's and boys' separate trousers	80.4	80.0	79.7	78.7	-	70.7	70.1	69.3	68.4	-
2328	Men's and boys' work clothing	96.4	94.4	102.6	100.6	-	82.0	80.0	86.2	84.4	-
233	Women's and misses' outerwear	448.0	452.2	434.3	435.2	-	388.3	391.6	372.3	373.2	-
2331	Women's and misses' blouses and waists	61.2	61.9	59.7	59.6	-	53.9	54.5	51.9	51.6	-
2335	Women's and misses' dresses	173.8	175.4	167.9	168.2	-	153.7	155.3	147.9	147.4	-
2337	Women's and misses' suits and coats	68.8	67.6	68.6	67.1	-	59.4	58.3	59.5	58.4	-
2339	Women's and misses' work clothing	144.2	147.3	138.1	140.3	-	121.3	123.5	113.0	115.8	-
234	Women's and children's undergarments	93.6	93.1	91.0	90.6	-	79.9	79.4	77.1	76.8	-
2341	Women's and children's underwear	73.6	73.3	71.8	71.6	-	64.0	63.7	61.8	61.7	-
2342	Brassieres and allied garments	20.0	19.8	19.2	19.0	-	15.9	15.7	15.3	15.1	-
238	Children's outerwear	69.4	69.2	66.1	65.3	-	59.5	59.1	56.9	56.3	-
2381	Children's dresses and blouses	26.4	26.8	24.3	24.7	-	23.8	23.9	21.8	22.1	-
238	Misc. apparel and accessories	60.7	60.3	57.1	57.6	-	52.4	51.9	49.0	49.5	-
239	Misc. fabricated textile products	195.4	196.8	195.0	190.2	-	163.6	165.1	153.0	157.9	-
2391	Curtains and draperies	31.3	31.3	30.5	31.0	-	27.5	27.5	26.5	26.8	-
2392	House furnishings, nec.	52.6	52.9	51.9	52.6	-	44.0	44.3	43.3	44.0	-
2396	Automotive and apparel trimmings	38.3	38.8	33.3	36.8	-	32.0	32.5	27.0	30.5	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	701.9	695.0	723.3	718.4	718.3	527.7	522.3	550.4	546.4	546.4
261, 2, 6	Paper and pulp mills	194.3	185.4	204.5	201.6	-	145.8	137.4	154.0	151.7	-
262	Paper mills, except building paper	165.5	156.6	174.4	171.8	-	123.3	114.8	129.9	127.7	-
263	Paperboard mills	69.1	69.4	72.9	72.4	-	54.3	54.5	57.8	57.4	-
264	Misc. converted paper products	222.3	222.5	229.8	227.6	-	160.4	161.2	171.4	169.4	-
2641	Paper coating and glazing	57.5	57.7	62.0	61.2	-	32.4	33.0	40.8	39.9	-
2642	Envelopes	23.9	24.4	24.6	24.8	-	18.8	19.2	19.6	19.7	-
2643	Bags, except textile bags	50.2	50.6	52.6	52.1	-	39.3	39.4	40.9	40.4	-
265	Paperboard containers and boxes	216.2	217.7	216.1	216.8	-	167.2	169.2	167.2	167.9	-
2651	Folding paperboard boxes	46.7	47.0	46.5	46.5	-	37.2	37.7	37.0	37.0	-
2653	Corrugated and solid fiber boxes	107.8	108.4	108.5	108.9	-	79.8	80.8	80.6	81.0	-
2654	Sanitary food containers	28.0	28.3	28.2	27.8	-	23.2	23.5	23.3	23.0	-
27	<b>PRINTING AND PUBLISHING</b>	1,192.3	1,201.2	1,245.4	1,245.3	1,256.2	666.3	673.7	702.6	704.3	713.5
271	Newspapers	490.7	405.0	421.6	421.8	-	156.6	160.1	169.0	169.1	-
272	Periodicals	30.3	81.3	82.9	82.3	-	14.1	14.0	14.1	13.7	-
273	Books	98.0	98.4	102.1	100.9	-	47.7	47.6	51.3	51.2	-
2731	Book publishing	69.9	70.0	73.5	72.2	-	24.1	23.8	27.1	27.0	-
2732	Book printing	28.1	28.4	28.6	28.7	-	23.6	23.8	24.2	24.2	-
274	Miscellaneous publishing	46.4	46.2	49.0	47.7	-	28.2	28.2	29.4	28.5	-
275	Commercial printing	396.1	399.5	410.9	414.5	-	293.1	296.0	304.8	308.6	-
2751	Commercial printing, letterpress	170.8	171.3	171.5	173.7	-	127.1	127.6	126.3	128.6	-
2752	Commercial printing, lithographic	204.0	206.4	216.9	219.0	-	148.4	150.4	159.8	161.9	-
276	Manifold business forms	45.6	45.8	48.8	49.2	-	32.5	32.9	34.5	34.8	-
278	Blankbooks and bookbinding	62.0	62.3	66.2	65.1	-	51.1	51.5	55.1	53.8	-
279	Printing trade services	39.8	40.1	40.3	40.8	-	29.1	29.4	30.0	30.2	-
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	1,102.7	1,100.6	1,121.2	1,113.1	1,115.2	631.7	629.8	639.3	636.0	640.3
281	Industrial inorganic chemicals	167.4	167.0	172.5	172.1	-	93.7	92.9	92.8	92.5	-
2819	Industrial inorganic chemicals, nec.	109.2	109.0	110.3	110.4	-	60.0	59.8	58.8	58.9	-
282	Plastics materials and synthetics	215.9	215.3	219.3	217.4	-	146.9	146.5	149.6	147.9	-
2821	Plastics materials and resins	83.6	83.6	85.6	84.2	-	51.3	51.4	52.4	50.9	-
2824	Organic fibers, noncellulosic	96.6	96.4	96.8	96.3	-	69.2	69.0	69.6	69.2	-
283	Drugs	187.2	187.4	192.6	190.3	-	88.3	89.2	94.3	94.1	-
2834	Pharmaceutical preparations	150.0	150.1	153.8	151.9	-	67.6	68.4	72.7	72.6	-
284	Soap, cleaners, and toilet goods	140.7	140.4	139.1	140.0	-	86.9	86.5	83.7	85.1	-
2841	Soap and other detergents	41.3	41.4	40.8	41.0	-	26.4	26.6	26.2	26.4	-
2844	Toilet preparations	59.3	58.6	56.6	57.4	-	38.0	37.1	34.9	36.2	-
2842, 3	Polishing, sanitation, and finishing preparations	40.1	40.4	41.7	41.6	-	22.5	22.8	22.6	22.5	-
285	Paints and allied products	70.1	69.5	71.5	69.9	-	37.0	36.3	37.5	36.2	-
286	Industrial organic chemicals	165.7	165.1	166.7	165.5	-	86.4	86.0	87.0	86.5	-

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 <sup>1</sup>				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
2865	Cyclic crudes and intermediates .....	37.1	36.8	38.1	37.6	-	23.0	23.2	23.9	23.6	-
2861,9	Gum, wood, and industrial organic chemicals, nec. ....	128.6	128.3	128.6	127.9	-	63.4	62.8	63.1	62.9	-
287	Agricultural chemicals .....	65.7	66.0	68.5	68.5	-	41.0	41.5	43.2	43.5	-
289	Miscellaneous chemical products .....	90.0	89.9	91.0	89.4	-	51.5	50.9	51.2	50.2	-
29	<b>PETROLEUM AND COAL PRODUCTS .....</b>	211.6	211.7	218.3	218.2	220.4	138.7	138.4	143.4	143.0	146.9
291	Petroleum refining .....	165.2	165.3	170.9	171.4	-	103.9	104.0	107.9	108.0	-
295	Paving and roofing materials .....	35.2	35.3	35.6	35.2	-	27.7	27.5	28.1	27.7	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS .....</b>	761.6	766.6	765.8	762.3	765.7	597.2	601.5	597.3	595.7	601.0
301	Tires and inner tubes .....	127.5	127.8	121.1	119.2	-	92.7	92.6	86.5	85.2	-
302	Rubber and plastics footwear .....	24.7	25.0	22.3	22.3	-	21.6	21.9	19.5	19.4	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting .....	23.3	23.7	23.2	23.6	-	17.3	17.6	17.3	17.5	-
306	Fabricated rubber products, nec .....	114.4	114.5	115.4	113.6	-	89.9	90.1	90.8	89.3	-
307	Miscellaneous plastics products .....	471.7	475.6	483.8	483.6	-	375.7	379.3	383.2	384.3	-
31	<b>LEATHER AND LEATHER PRODUCTS .....</b>	257.4	256.3	245.8	242.6	241.7	221.2	219.3	208.7	206.1	205.7
311	Leather tanning and finishing .....	21.8	21.7	20.2	19.2	-	18.5	18.3	16.9	16.0	-
314	Footwear, except rubber .....	159.0	156.8	149.5	147.5	-	138.9	136.0	128.1	126.5	-
3143	Men's footwear, except athletic .....	64.2	63.5	57.7	56.9	-	56.7	55.9	49.8	49.2	-
3144	Women's footwear, except athletic .....	63.2	61.9	62.4	61.2	-	55.0	53.2	53.2	52.3	-
316	Luggage .....	18.1	18.1	17.9	17.6	-	14.0	14.0	14.0	13.6	-
317	Handbags and personal leather goods .....	32.3	33.5	33.9	33.8	-	27.7	28.4	29.1	29.1	-
-	<b>TRANSPORTATION AND PUBLIC UTILITIES .....</b>	5,000	5,039	5,210	5,243	5,255	4,197	4,231	4,365	4,392	4,405
40	<b>RAILROAD TRANSPORTATION .....</b>	534.2	551.4	563.5	552.9	-	-	-	-	-	-
4011	Class I railroads <sup>2</sup> .....	490.7	508.5	517.9	508.2	-	-	-	-	-	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT .....</b>	261.8	265.7	218.7	270.0	-	241.8	245.9	199.8	248.8	-
411	Local and suburban transportation .....	70.9	70.1	72.4	73.9	-	65.7	65.0	67.1	69.3	-
412	Taxicabs .....	63.6	64.2	61.4	63.5	-	-	-	-	-	-
413	Intercity highway transportation .....	37.0	35.6	39.8	39.3	-	34.1	32.6	36.9	36.3	-
415	School buses .....	76.6	81.9	33.5	78.5	-	-	-	-	-	-
42	<b>TRUCKING AND WAREHOUSING .....</b>	1,352.2	1,362.2	1,395.7	1,402.3	-	1,198.9	1,208.9	1,234.2	1,240.0	-
421,3	Trucking and trucking terminals .....	1,262.0	1,269.3	1,306.2	1,312.0	-	1,120.8	1,128.1	1,157.3	1,162.5	-
422	Public warehousing .....	90.2	92.9	89.5	90.3	-	78.1	80.8	76.9	77.5	-
44	<b>WATER TRANSPORTATION .....</b>	213.4	213.8	237.5	233.8	-	-	-	-	-	-
45	<b>TRANSPORTATION BY AIR .....</b>	406.1	406.9	434.6	433.7	-	-	-	-	-	-
451,2	Air transportation .....	364.0	364.5	387.9	386.7	-	-	-	-	-	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS .....</b>	19.6	19.5	19.9	19.2	-	14.2	14.0	14.3	13.8	-
47	<b>TRANSPORTATION SERVICES .....</b>	172.5	174.5	189.6	191.4	-	-	-	-	-	-
48	<b>COMMUNICATION .....</b>	1,257.6	1,261.6	1,323.9	1,321.9	-	951.1	953.7	998.9	993.9	-
481	Telephone communication .....	1,007.3	1,010.4	1,059.7	1,056.1	-	748.0	749.3	781.0	773.9	-
483	Radio and television broadcasting .....	183.1	184.0	193.5	195.1	-	144.6	145.7	155.6	157.3	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES .....</b>	782.5	783.7	826.4	817.8	-	639.0	639.1	675.4	666.4	-
491	Electric services .....	356.8	359.9	379.8	377.1	-	287.9	290.5	307.4	304.3	-
492	Gas production and distribution .....	165.3	164.2	174.3	170.6	-	135.3	134.2	143.1	139.5	-
493	Combination utility services .....	192.4	191.9	198.9	196.4	-	156.9	155.8	161.3	158.8	-
495	Sanitary services .....	44.2	44.0	47.4	48.4	-	39.2	39.0	42.1	42.9	-
-	<b>WHOLESALE AND RETAIL TRADE .....</b>	19,741	19,813	20,137	20,240	20,352	17,391	17,453	17,688	17,769	17,885
50,51	<b>WHOLESALE TRADE .....</b>	5,014	5,050	5,211	5,203	5,250	4,133	4,163	4,282	4,273	4,318
50	<b>WHOLESALE TRADE—DURABLE GOODS .....</b>	2,920	2,934	3,078	3,068	-	2,402	2,410	2,529	2,517	-
501	Motor vehicles and automotive equipment .....	424.7	427.5	439.3	438.2	-	348.6	350.4	358.6	357.3	-
502	Furniture and home furnishing .....	103.2	103.9	105.8	107.0	-	83.4	84.3	86.2	87.0	-
503	Lumber and construction materials .....	182.2	182.6	189.9	188.3	-	152.6	152.6	159.4	157.5	-
504	Sporting goods, toys, and hobby goods .....	63.7	64.8	63.7	63.9	-	53.0	53.8	52.3	52.5	-
505	Metals and minerals, except petroleum .....	144.5	145.5	154.8	154.9	-	117.8	118.5	126.3	126.3	-
506	Electrical goods .....	394.7	394.8	415.9	416.5	-	324.6	324.4	339.6	339.6	-
507	Hardware, plumbing, and heating equipment .....	232.3	234.7	243.8	241.3	-	192.9	194.8	202.2	200.3	-

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 <sup>1</sup>				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 eP
	<b>WHOLESALE TRADE-DURABLE GOODS—</b>										
	Continued										
508	Machinery, equipment, and supplies .....	1,177.5	1,182.5	1,256.4	1,249.6	-	963.9	964.7	1,028.1	1,020.9	-
509	Miscellaneous durable goods .....	197.1	198.1	208.0	208.0	-	165.6	166.6	176.0	175.8	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> ..	2,094	2,116	2,133	2,135	-	1,731	1,753	1,753	1,756	-
511	Paper and paper products .....	134.6	135.7	140.4	139.4	-	110.2	110.2	114.2	113.0	-
512	Drugs, proprietaries, and sundries .....	139.9	140.9	142.6	141.8	-	119.4	120.5	122.2	121.2	-
513	Apparel, piece goods, and notions .....	164.7	165.9	170.3	170.4	-	131.5	132.5	135.5	135.4	-
514	Groceries and related products .....	646.1	648.9	653.9	654.6	-	561.4	563.6	562.9	564.9	-
516	Chemicals and allied products .....	114.7	114.2	117.6	117.1	-	82.1	81.9	85.7	85.3	-
517	Petroleum and petroleum products .....	227.3	223.9	221.8	221.2	-	172.9	169.8	162.6	162.1	-
518	Beer, wine, and distilled beverages .....	132.6	132.2	141.9	140.3	-	112.7	112.4	120.8	119.0	-
519	Miscellaneous nondurable goods .....	385.5	392.5	404.0	403.1	-	318.3	325.0	334.2	333.6	-
52-59	<b>RETAIL TRADE</b> .....	14,727	14,763	14,926	15,037	15,102	13,258	13,290	13,406	13,496	13,567
52	<b>BUILDING MATERIALS AND GARDEN</b>										
	SUPPLIES .....	617.1	618.7	631.5	628.0	-	527.8	529.4	539.8	535.4	-
521	Lumber and other building materials .....	332.2	331.4	341.6	337.9	-	286.6	285.8	293.4	289.7	-
525	Hardware stores .....	141.2	142.6	146.8	146.5	-	120.8	122.2	127.0	126.2	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	2,286.0	2,325.2	2,180.9	2,214.0	-	2,134.4	2,170.1	2,027.5	2,058.6	-
531	Department stores .....	1,861.0	1,894.7	1,752.4	1,785.8	-	1,748.5	1,780.5	1,640.1	1,672.4	-
533	Variety stores .....	291.9	292.0	278.0	277.5	-	272.2	270.9	256.2	255.1	-
539	Misc. general merchandise stores .....	133.1	138.5	150.5	150.7	-	113.7	118.7	131.2	131.1	-
54	<b>FOOD STORES</b> .....	2,197.7	2,226.4	2,261.6	2,284.3	-	2,027.1	2,052.7	2,087.9	2,105.6	-
541	Grocery stores .....	1,921.8	1,945.3	1,993.1	2,012.9	-	1,776.1	1,796.7	1,842.7	1,857.5	-
542	Meat markets and freezer provisioners .....	49.1	51.5	51.6	51.6	-	-	-	-	-	-
546	Retail bakeries .....	125.3	125.7	123.0	125.2	-	114.9	115.6	113.1	114.7	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE</b>										
	STATIONS .....	1,878.9	1,879.3	1,803.9	1,794.2	-	1,614.6	1,614.3	1,535.5	1,525.3	-
551,2	New and used car dealers .....	899.7	903.6	886.5	880.3	-	752.4	756.0	735.5	728.7	-
553	Auto and home supply stores .....	262.4	260.5	252.3	261.2	-	229.0	226.7	228.9	228.2	-
554	Gasoline service stations .....	632.7	632.1	561.7	564.1	-	561.7	560.6	490.7	492.9	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	893.9	914.3	909.7	920.1	-	772.0	789.4	782.0	792.1	-
561	Men's and boys' clothing and furnishings .....	134.2	138.1	136.0	138.3	-	114.4	117.8	115.4	117.4	-
562	Women's ready-to-wear stores .....	342.0	351.7	344.6	350.2	-	296.8	305.9	299.2	305.7	-
565	Family clothing stores .....	164.6	166.4	173.6	172.8	-	146.0	146.8	152.3	151.2	-
566	Shoe stores .....	169.0	171.7	170.9	173.5	-	141.3	143.7	141.3	143.6	-
57	<b>FURNITURE AND HOME FURNISHINGS</b>										
	STORES .....	597.2	603.1	609.8	614.2	-	495.1	500.9	504.6	506.0	-
571	Furniture and home furnishings .....	363.3	365.5	364.9	366.2	-	305.9	308.1	306.5	305.1	-
572	Household appliance stores .....	86.9	87.3	90.8	91.3	-	73.8	74.3	77.6	78.0	-
573	Radio, television, and music stores .....	147.0	150.3	154.1	156.7	-	115.4	118.5	120.5	122.9	-
58	<b>EATING AND DRINKING PLACES</b> .....	4,446.2	4,348.3	4,690.2	4,713.7	-	4,094.8	4,006.7	4,315.8	4,333.3	-
59	<b>MISCELLANEOUS RETAIL</b> .....	1,809.6	1,847.9	1,838.2	1,868.3	-	1,592.1	1,626.9	1,613.3	1,639.3	-
591	Drug stores and proprietary stores .....	488.1	490.8	506.7	508.3	-	444.5	447.4	461.4	462.6	-
592	Liquor stores .....	123.2	124.1	137.9	136.3	-	-	-	-	-	-
594	Miscellaneous shopping goods stores .....	542.4	558.2	552.2	572.2	-	466.0	478.9	469.7	487.1	-
596	Nonstore retailers .....	279.9	290.7	256.2	263.5	-	261.0	272.2	240.4	247.4	-
598	Fuel and ice dealers .....	97.2	100.2	96.4	97.1	-	81.9	84.8	81.3	81.4	-
599	Retail stores, nec. ....	225.8	230.7	234.5	235.7	-	189.9	194.9	196.1	197.4	-
-	<b>FINANCE, INSURANCE, AND REAL</b>										
	ESTATE <sup>2</sup> .....	4,779	4,788	5,053	5,000	5,020	3,638	3,643	3,850	3,797	3,811
60	<b>BANKING</b> .....	1,434.6	1,438.7	1,509.9	1,492.7	-	1,119.5	1,121.7	1,171.0	1,153.6	-
602	Commercial and stock savings banks .....	1,310.2	1,313.9	1,378.0	1,362.1	-	1,018.1	1,019.9	1,063.5	1,047.4	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	522.4	523.8	555.0	554.6	-	401.9	403.9	426.4	425.5	-
612	Savings and loan associations .....	221.8	223.2	241.0	241.3	-	173.5	174.8	186.7	186.6	-
614	Personal credit institutions .....	201.6	201.5	211.3	211.1	-	153.0	153.6	161.4	161.2	-
62	<b>SECURITY, COMMODITY BROKERS, AND</b>										
	SERVICES .....	193.1	194.2	208.8	207.7	-	-	-	-	-	-
621	Security brokers and dealers .....	155.7	156.4	167.3	166.3	-	-	-	-	-	-
63	<b>INSURANCE CARRIERS</b> .....	1,182.9	1,185.4	1,222.3	1,217.3	-	825.8	829.5	856.9	852.7	-
631	Life insurance .....	517.8	517.9	526.4	523.3	-	309.2	310.6	314.5	311.6	-

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 <sup>1</sup>				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979p	Oct. 1979p	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979p	Oct. 1979p
	<b>INSURANCE CARRIERS—Continued</b>										
632	Medical service and health insurance .....	136.1	136.5	138.0	137.1	-	109.6	110.0	110.7	109.9	-
633	Fire, marine, and casualty insurance .....	455.7	457.5	481.6	480.9	-	346.9	348.4	369.6	369.5	-
64	<b>INSURANCE AGENTS, BROKERS, AND SERVICE .....</b>	410.5	414.1	437.3	432.5	-	-	-	-	-	-
65	<b>REAL ESTATE .....</b>	905.6	902.8	981.4	958.8	-	-	-	-	-	-
651	Real estate operators and lessors .....	425.3	422.9	453.0	442.3	-	-	-	-	-	-
653	Real estate agents and managers .....	328.6	330.0	361.3	354.6	-	-	-	-	-	-
655	Subdividers and developers .....	128.2	126.0	142.2	137.5	-	-	-	-	-	-
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC. ....</b>	27.3	26.9	27.1	26.4	-	-	-	-	-	-
67	<b>HOLDING AND OTHER INVESTMENT OFFICES. . .</b>	103.0	102.1	111.0	110.4	-	-	-	-	-	-
-	<b>SERVICES .....</b>	16,456	16,497	17,312	17,254	17,325	14,628	14,644	15,371	15,315	15,385
70	<b>HOTELS AND OTHER LODGING PLACES .....</b>	1,016.1	964.2	1,168.4	1,093.0	-	-	-	-	-	-
701	Hotels, motels, and tourist courts .....	971.7	928.2	1,088.0	1,048.3	-	893.9	854.0	1,002.9	964.7	-
72	<b>PERSONAL SERVICES .....</b>	903.1	906.9	886.3	892.8	-	-	-	-	-	-
721	Laundry, cleaning, and garment services .....	357.1	360.0	349.3	350.4	-	318.7	320.8	311.2	312.5	-
723	Beauty shops .....	280.0	280.2	277.1	279.1	-	258.9	258.0	255.8	257.7	-
726	Funeral service and crematories .....	69.4	69.2	72.1	71.7	-	-	-	-	-	-
73	<b>BUSINESS SERVICES .....</b>	2,686.7	2,711.5	2,865.6	2,896.7	-	2,343.8	2,366.8	2,492.9	2,524.6	-
731	Advertising .....	143.7	144.2	149.0	148.6	-	105.8	106.4	110.2	110.0	-
732	Credit reporting and collection .....	77.3	78.0	75.8	74.9	-	-	-	-	-	-
733	Mailing, reproduction, stenographic .....	105.3	106.9	102.4	105.1	-	-	-	-	-	-
734	Services to buildings .....	455.4	454.8	494.3	497.6	-	409.4	408.5	446.6	450.6	-
736	Personnel supply services .....	474.5	476.8	498.4	508.7	-	-	-	-	-	-
737	Computer and data processing services .....	226.7	230.9	260.5	262.2	-	185.2	190.0	214.8	216.0	-
75	<b>AUTO REPAIR, SERVICES, AND GARAGES .....</b>	557.0	561.7	566.1	569.8	-	478.9	482.9	482.9	487.4	-
753	Automotive repair shops .....	351.4	354.7	357.0	358.1	-	300.8	303.3	302.9	304.3	-
76	<b>MISCELLANEOUS REPAIR SERVICES .....</b>	259.8	262.0	278.3	281.7	-	221.0	223.8	237.7	241.3	-
78	<b>MOTION PICTURES .....</b>	219.5	212.6	224.5	218.5	-	192.7	187.6	200.6	194.7	-
781	Motion picture production and services .....	78.0	79.4	76.0	78.7	-	66.2	68.8	66.3	68.6	-
783	Motion picture theaters .....	130.6	122.1	137.9	123.9	-	-	-	-	-	-
79	<b>AMUSEMENT AND RECREATION SERVICES .....</b>	731.7	710.0	816.8	772.3	-	713.5	639.8	741.1	699.1	-
80	<b>HEALTH SERVICES .....</b>	4,352.7	4,386.9	5,093.1	5,087.2	-	4,321.3	4,333.2	4,537.8	4,529.0	-
801	Offices of physicians .....	687.0	688.8	725.5	723.0	-	563.3	566.0	595.1	592.3	-
802	Offices of dentists .....	301.4	300.9	317.4	317.1	-	261.9	261.0	275.6	273.4	-
805	Nursing and personal care facilities .....	934.1	935.5	996.6	994.1	-	843.3	843.4	899.5	895.2	-
806	Hospitals .....	2,569.9	2,577.6	2,668.6	2,665.9	-	2,344.9	2,351.6	2,436.7	2,435.2	-
81	<b>LEGAL SERVICES .....</b>	433.9	436.9	470.3	465.1	-	374.8	376.9	404.6	399.0	-
82	<b>EDUCATIONAL SERVICES .....</b>	996.4	1,107.1	895.4	1,012.4	-	-	-	-	-	-
821	Elementary and secondary schools .....	224.4	232.6	207.3	227.1	-	-	-	-	-	-
822	Colleges and universities .....	664.1	762.2	579.8	674.2	-	-	-	-	-	-
83	<b>SOCIAL SERVICES .....</b>	984.1	986.5	1,099.4	1,042.2	-	-	-	-	-	-
86	<b>MEMBERSHIP ORGANIZATIONS .....</b>	1,506.2	1,520.2	1,585.7	1,574.9	-	-	-	-	-	-
89	<b>MISCELLANEOUS SERVICES .....</b>	876.7	882.1	960.4	948.8	-	726.3	729.3	796.7	785.5	-
891	Engineering and architectural services .....	477.1	480.5	527.1	518.3	-	403.3	405.0	448.4	439.4	-
893	Accounting, auditing, and bookkeeping .....	274.1	276.3	296.8	295.7	-	217.5	219.2	235.5	234.9	-
-	<b>GOVERNMENT<sup>4</sup> .....</b>	15,132	15,556	14,931	15,362	15,792	-	-	-	-	-
-	<b>FEDERAL GOVERNMENT .....</b>	2,744	2,746	2,844	2,787	2,777	-	-	-	-	-
-	Executive .....	2,691.9	2,694.5	2,739.6	2,734.0	-	-	-	-	-	-
-	Department of Defense .....	905.4	905.8	908.5	900.0	-	-	-	-	-	-
-	Postal Service .....	651.9	646.9	665.4	659.0	-	-	-	-	-	-
-	Other executive agencies .....	1,134.6	1,141.8	1,215.7	1,175.0	-	-	-	-	-	-
-	Manufacturing activities .....	122.2	122.5	121.6	119.5	-	-	-	-	-	-
-	Shipbuilding .....	71.0	71.7	71.5	69.8	-	-	-	-	-	-

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 <sup>1</sup>				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p
	<b>Executive—Continued</b>										
-	Transportation and public utilities, except Postal Service .....	48.1	48.4	51.7	52.4	-	-	-	-	-	-
-	Services .....	392.4	386.4	396.4	384.7	-	-	-	-	-	-
-	Hospitals .....	230.0	226.6	228.4	225.2	-	-	-	-	-	-
-	Legislative .....	39.3	38.9	41.3	40.0	-	-	-	-	-	-
-	Judicial .....	13.0	13.0	13.4	13.0	-	-	-	-	-	-
-	<b>STATE AND LOCAL GOVERNMENT .....</b>	<b>12,388</b>	<b>12,810</b>	<b>12,087</b>	<b>12,575</b>	<b>13,015</b>	-	-	-	-	-
-	State government .....	3,349.8	3,479.9	3,273.6	3,400.2	-	-	-	-	-	-
-	Hospitals .....	553.2	554.5	563.5	561.7	-	-	-	-	-	-
-	State education .....	1,298.2	1,453.0	1,162.6	1,327.2	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions .....	910.9	895.2	931.3	914.4	-	-	-	-	-	-
-	Local government .....	9,038.0	9,329.8	8,812.9	9,175.2	-	-	-	-	-	-
-	Transportation and public utilities .....	571.5	572.0	533.9	595.5	-	-	-	-	-	-
-	Hospitals .....	515.5	516.1	534.2	532.3	-	-	-	-	-	-
-	Local education .....	4,837.0	5,199.9	4,311.2	4,901.8	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions .....	2,761.4	2,708.7	2,976.5	2,786.4	-	-	-	-	-	-

<sup>1</sup> 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.

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

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

<sup>4</sup> 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.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in the October issue for additional information, and the November Supplement for revised data.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1978	Aug. 1978	June 1979	July 1979	Aug. 1979
-	<b>TOTAL</b> .....	34,591	34,736	37,134	36,341	36,524
-	<b>PRIVATE SECTOR</b> .....	28,057	28,351	29,780	29,617	29,801
-	<b>MINING</b> .....	79	80	93	94	96
10	<b>METAL MINING</b> .....	7.2	7.3	8.6	8.8	8.7
11, 12	<b>COAL MINING</b> .....	8.4	8.4	9.2	9.2	9.5
13	<b>OIL AND GAS EXTRACTION</b> .....	55.5	56.3	65.6	66.9	68.1
131, 2	Crude petroleum, natural gas, and natural gas liquids.....	36.3	36.6	42.3	43.2	43.7
138	Oil and gas field services.....	19.2	19.7	23.3	23.7	24.4
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	8.2	8.2	9.3	9.5	9.5
142	Crushed and broken stone.....	2.5	2.5	2.8	2.8	2.8
144	Sand and gravel.....	2.6	2.6	3.1	3.2	3.2
-	<b>CONSTRUCTION</b> .....	344	346	379	385	388
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	126.9	127.1	136.2	140.1	140.5
152	Residential building construction.....	77.3	77.5	81.5	84.7	84.5
153	Operative builders.....	16.6	16.8	18.0	17.9	17.6
154	Nonresidential building construction.....	33.0	32.8	36.7	37.5	38.4
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	52.7	53.3	56.5	57.9	58.7
161	Highway and street construction.....	14.9	15.4	18.8	19.9	20.3
162	Heavy construction, except highway.....	37.8	37.9	37.7	38.0	38.4
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	164.0	165.2	185.8	187.3	188.5
171	Plumbing, heating, air conditioning.....	45.1	45.1	48.1	49.3	49.3
172	Painting, paper hanging, decorating.....	10.2	10.4	12.6	13.0	12.8
173	Electrical work.....	29.4	29.8	31.5	32.1	31.7
174	Masonry, stonework, and plastering.....	18.8	18.5	21.9	22.3	22.5
175	Carpentering and flooring.....	13.2	13.4	16.8	16.2	16.2
176	Roofing and sheet metal work.....	11.2	11.4	13.1	13.1	13.5
-	<b>MANUFACTURING</b> .....	6,148	6,317	6,534	6,414	6,505
24, 25, 32-39	<b>DURABLE GOODS</b> .....	2,867	2,906	3,121	3,075	3,067
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	3,281	3,411	3,413	3,339	3,438
	<b>DURABLE GOODS</b>					
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	107.9	109.7	115.9	114.1	115.1
241	Logging camps and logging contractors.....	5.1	5.2	5.3	5.5	5.4
242	Sawmills and planing mills.....	21.1	21.5	22.9	22.6	22.9
2421	Sawmills and planing mills, general.....	14.7	14.9	15.7	15.7	15.9
243	Millwork, plywood, and structural members.....	43.9	44.2	47.1	46.6	46.9
244	Wooden containers.....	7.3	7.5	7.8	7.7	7.3
245	Wood buildings and mobile homes.....	10.7	10.9	11.4	11.1	11.3
249	Miscellaneous wood products.....	19.8	20.4	21.4	20.6	21.3
25	<b>FURNITURE AND FIXTURES</b> .....	137.4	140.9	143.2	140.2	142.9
251	Household furniture.....	102.3	105.2	106.0	103.2	105.6
2511	Wood household furniture.....	43.4	44.0	45.3	43.0	44.7
2512	Upholstered household furniture.....	34.8	36.9	36.5	35.2	35.6
2515	Mattresses and bedsprings.....	8.7	8.7	8.6	8.7	8.9
252	Office furniture.....	10.3	10.6	11.1	11.3	11.5
253	Public building and related furniture.....	5.0	5.0	5.4	5.3	5.4
254	Partitions and fixtures.....	9.5	9.7	11.0	10.8	10.7
259	Miscellaneous furniture and fixtures.....	10.3	10.4	9.7	9.6	9.7
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	129.9	130.7	136.6	135.3	134.7
322	Glass and glassware, pressed or blown.....	46.7	47.1	44.8	44.3	43.6
3221	Glass containers.....	27.8	27.7	25.7	25.2	24.6
3229	Pressed and blown glass, nec.....	18.9	19.4	19.1	19.1	19.0
323	Products of purchased glass.....	11.6	11.7	14.2	13.9	14.0
324	Cement, hydraulic.....	1.7	1.7	1.8	1.8	1.8
325	Structural clay products.....	6.0	6.2	6.8	6.7	6.8
326	Pottery and related products.....	15.9	16.1	16.4	16.0	16.4
327	Concrete, gypsum, and plaster products.....	14.9	15.0	15.8	16.0	15.9
329	Misc. nonmetallic mineral products.....	30.1	30.0	33.5	33.3	33.1
33	<b>PRIMARY METAL INDUSTRIES</b> .....	121.9	122.5	137.7	136.8	134.6
331	Blast furnace and basic steel products.....	40.0	40.3	45.5	46.8	46.4
3312	Blast furnaces and steel mills.....	31.4	31.5	35.7	37.1	36.6
332	Iron and steel foundries.....	18.5	17.4	21.5	20.8	20.2

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	July 1978	Aug. 1978	June 1979	July 1979	Aug. 1979
<b>PRIMARY METAL INDUSTRIES—Continued</b>						
3321	Gray iron foundries .....	9.7	9.2	10.6	10.1	9.5
3322	Malleable iron foundries .....	1.6	1.5	1.8	1.8	1.6
3325	Steel foundries, nec .....	4.2	4.1	4.7	4.6	4.8
333	Primary nonferrous metals .....	4.7	4.7	5.0	5.1	5.1
3334	Primary aluminum .....	1.8	1.8	2.1	2.2	2.2
335	Nonferrous rolling and drawing .....	39.1	40.1	43.6	42.7	41.6
3351	Copper rolling and drawing .....	3.0	3.7	4.1	4.0	4.0
3353	Aluminum sheet, plate, and foil .....	4.0	4.3	4.6	4.6	4.6
3357	Nonferrous wire drawing and insulating .....	22.8	23.3	25.4	24.6	23.6
336	Nonferrous foundries .....	14.8	15.1	16.8	16.1	15.9
3361	Aluminum foundries .....	7.1	7.2	8.1	8.0	8.0
34	<b>FABRICATED METAL PRODUCTS</b> .....	338.5	341.8	366.4	358.6	359.2
341	Metal cans and shipping containers .....	13.4	13.4	13.8	13.8	13.8
3411	Metal cans .....	11.8	11.8	11.9	11.9	11.9
342	Cutlery, hand tools, and hardware .....	60.3	60.3	63.2	60.9	60.5
3423, 5	Hand and edge tools, and hand saws and blades .....	16.8	16.7	17.7	17.3	18.0
3429	Hardware, nec .....	36.4	36.5	38.3	36.7	35.4
343	Plumbing and heating, except electric .....	17.0	17.5	19.6	19.1	19.6
344	Fabricated structural metal products .....	69.5	70.2	73.4	73.9	74.8
3441	Fabricated structural metal .....	6.9	7.0	7.7	7.6	7.9
3442	Metal doors, sash, and trim .....	23.7	23.8	23.8	24.2	24.4
3443	Fabricated plate work (boiler shops) .....	15.0	15.2	16.3	16.5	16.7
3444	Sheet metal work .....	14.3	14.5	15.5	15.5	15.5
345	Screw machine products, bolts, etc. ....	22.9	22.9	26.5	26.2	26.3
3451	Screw machine products .....	11.6	11.7	13.6	13.3	13.5
3452	Bolts, nuts, rivets, and washers .....	11.2	11.2	12.9	12.9	12.8
346	Metal forgings and stampings .....	56.2	57.0	60.6	58.2	58.6
3462	Iron and steel forgings .....	3.6	4.0	4.7	4.5	4.6
3465	Automotive stampings .....	14.4	14.2	15.3	14.1	13.3
3469	Metal stampings, nec .....	36.0	36.7	38.5	37.5	38.5
347	Metal services, nec .....	25.2	25.8	27.1	26.0	25.9
3471	Plating and polishing .....	17.6	18.2	18.5	17.7	17.9
3479	Metal coating and allied services .....	7.6	7.6	8.6	8.3	8.0
348	Ordinance and accessories, nec .....	16.7	16.8	17.7	17.7	17.2
349	Misc. fabricated metal products .....	57.4	57.9	64.5	62.8	62.5
3494	Valves and pipe fittings .....	21.0	21.0	23.6	23.4	23.3
3496	Misc. fabricated wire products .....	12.8	13.4	14.9	14.3	14.3
35	<b>MACHINERY, EXCEPT ELECTRICAL</b> .....	429.7	430.3	473.2	476.3	473.7
351	Engines and turbines .....	22.6	22.6	25.3	25.2	25.6
3511	Turbines and turbine generator sets .....	6.0	5.9	5.8	5.8	5.8
3519	Internal combustion engines, nec .....	16.6	16.7	19.5	19.4	19.8
352	Farm and garden machinery .....	22.9	22.4	26.9	27.0	25.2
3523	Farm machinery and equipment .....	17.8	17.4	20.8	20.9	20.4
353	Construction and related machinery .....	40.8	41.0	45.8	46.0	46.1
3531	Construction machinery .....	14.2	14.1	14.3	14.3	14.9
3533	Oil field machinery .....	9.4	9.5	11.6	11.8	11.7
354	Metalworking machinery .....	52.4	52.4	58.6	58.2	58.9
3541	Machine tools, metal cutting types .....	8.6	8.7	10.0	10.2	10.2
3544	Special dies, tools, jigs, and fixtures .....	14.2	14.4	16.0	15.8	15.7
3545	Machine tool accessories .....	12.6	12.7	14.4	14.1	14.5
355	Special industry machinery .....	29.0	29.5	31.1	31.4	31.4
3551	Food products machinery .....	5.9	6.0	6.5	6.6	6.6
3552	Textile machinery .....	4.9	5.0	5.3	5.3	5.4
3555	Printing trades machinery .....	7.2	7.3	7.4	7.4	7.4
356	General industrial machinery .....	57.0	57.4	62.6	62.8	62.1
3561	Pumps and pumping equipment .....	10.4	10.6	11.2	11.1	11.0
3562	Ball and roller bearings .....	13.0	12.8	13.9	13.8	13.6
357	Office and computing machines .....	122.0	122.5	134.7	139.2	139.7
3573	Electronic computing equipment .....	95.3	95.7	108.6	112.5	113.1
358	Refrigeration and service machinery .....	37.0	36.4	39.1	37.6	36.3
3585	Refrigeration and heating equipment .....	24.4	23.5	25.9	24.7	23.3
359	Misc. machinery, except electrical .....	46.0	46.1	49.1	48.9	48.4
3599	Machinery, except electrical, nec .....	36.4	36.3	37.3	37.5	37.1
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b> .....	825.8	838.6	903.9	893.7	887.5
361	Electric distributing equipment .....	42.6	42.9	45.4	44.2	42.4
3612	Transformers .....	19.1	19.0	19.8	19.2	19.2
3613	Switchgear and switchboard apparatus .....	23.5	23.9	25.6	25.0	23.2
362	Electrical industrial apparatus .....	93.8	94.0	102.9	101.5	95.5
3621	Motors and generators .....	52.8	52.9	57.6	56.4	51.1
3622	Industrial controls .....	28.3	28.6	30.9	30.5	30.2
363	Household appliances .....	63.8	62.6	59.3	58.7	59.3
3632	Household refrigerators and freezers .....	13.4	11.5	10.4	9.8	9.4
3633	Household laundry equipment .....	5.6	5.0	5.1	5.0	5.0
3634	Electric housewares and fans .....	27.0	28.1	25.6	25.9	26.5
364	Electric lighting and wiring equipment .....	97.4	100.2	108.0	105.3	102.3
3641	Electric lamps .....	23.3	23.5	24.8	24.5	21.4

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1978	Aug. 1978	June 1979	July 1979	Aug. 1979
<b>ELECTRIC AND ELECTRONIC EQUIPMENT—Continued</b>						
3643	Current-carrying wiring devices .....	43.4	44.6	49.2	48.3	48.7
365	Radio and TV receiving equipment .....	59.2	61.2	60.0	57.9	59.3
3651	Radio and TV receiving sets .....	44.6	46.3	46.9	45.4	46.7
366	Communication equipment .....	175.8	177.9	195.5	197.1	197.9
3661	Telephone and telegraph apparatus .....	72.0	72.2	77.7	78.8	79.4
3662	Radio and TV communication equipment .....	103.8	105.7	117.8	118.3	118.5
367	Electronic components and accessories .....	238.3	243.7	273.8	272.6	274.8
3671-3	Electronic tubes .....	16.0	15.8	17.0	17.0	16.7
3674	Semiconductors and related devices .....	80.5	81.8	91.9	91.0	93.6
3679	Electronic components, nec .....	96.7	100.1	113.3	111.4	112.7
369	Misc. electrical equipment and supplies .....	54.9	56.1	59.0	56.4	56.0
3694	Engine electrical equipment .....	26.5	27.1	27.3	25.9	24.7
<b>TRANSPORTATION EQUIPMENT</b>						
37	Motor vehicles and equipment .....	293.2	291.5	327.0	321.6	304.6
371	Motor vehicles and equipment .....	133.1	129.7	149.0	141.7	125.4
3711	Motor vehicles and car bodies .....	51.8	48.0	58.2	55.9	44.6
3713	Truck and bus bodies .....	5.1	5.3	6.3	6.2	4.7
3714	Motor vehicle parts and accessories .....	74.2	74.2	82.0	77.2	73.7
372	Aircraft and parts .....	92.8	93.7	111.4	113.4	112.5
3721	Aircraft .....	53.5	54.7	64.3	65.6	66.5
3724	Aircraft engines and engine parts .....	20.5	20.1	24.4	24.9	23.2
3728	Aircraft equipment, nec .....	18.9	18.9	22.7	22.9	22.8
373	Ship and boat building and repairing .....	22.5	22.8	23.2	22.9	22.4
3731	Ship building and repairing .....	14.2	14.3	15.3	15.3	15.2
374	Railroad equipment .....	5.6	5.7	6.3	6.4	6.5
376	Guided missiles, space vehicles, parts .....	18.2	18.3	20.5	20.8	21.0
3761	Guided missiles and space vehicles .....	15.1	15.2	16.9	17.2	17.4
379	Miscellaneous transportation equipment .....	14.9	15.2	9.7	9.6	9.9
<b>INSTRUMENTS AND RELATED PRODUCTS</b>						
38	Engineering and scientific instruments .....	275.9	280.3	299.2	293.0	296.1
381	Engineering and scientific instruments .....	19.1	20.1	22.3	22.5	22.5
382	Measuring and controlling devices .....	92.1	92.7	99.6	99.2	100.1
3822	Environmental controls .....	24.0	23.1	23.6	23.1	23.6
3823	Process control instruments .....	16.0	15.9	16.8	16.9	16.5
3825	Instruments to measure electricity .....	38.1	39.4	43.2	42.9	43.8
383	Optical instruments and lenses .....	9.5	9.6	10.6	10.8	11.3
384	Medical instruments and supplies .....	73.3	75.0	80.6	76.8	77.8
3841	Surgical and medical instruments .....	33.0	33.9	37.2	34.2	35.3
3842	Surgical appliances and supplies .....	32.0	32.6	35.0	34.4	34.5
385	Ophthalmic goods .....	24.6	25.0	26.4	25.2	26.1
386	Photographic equipment and supplies .....	38.0	38.2	40.9	40.8	39.7
387	Watches, clocks, and watchcases .....	19.3	19.7	18.8	17.7	18.6
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>						
39	Jewelry, silverware, and plated ware .....	206.6	220.0	217.4	205.4	218.2
391	Jewelry, silverware, and plated ware .....	27.6	31.1	27.8	26.4	28.1
393	Musical instruments .....	11.5	11.9	11.0	10.5	10.9
394	Toys and sporting goods .....	65.1	67.7	65.5	62.1	68.7
3942, 4	Dolls, games, toys, and children's vehicles .....	34.7	38.5	35.2	32.6	39.6
3949	Sporting and athletic goods, nec .....	30.4	29.2	30.3	29.5	30.1
395	Pens, pencils, office and art supplies .....	20.3	20.8	22.8	22.7	22.9
396	Costume jewelry and notions .....	31.7	36.6	38.2	32.5	35.4
399	Miscellaneous manufactures .....	50.4	51.9	52.1	51.2	52.2
<b>NONDURABLE GOODS</b>						
<b>FOOD AND KINDRED PRODUCTS</b>						
20	Meat products .....	503.9	545.6	501.4	510.9	553.7
201	Meat packing plants .....	103.9	109.6	117.5	118.4	118.2
2011	Sausages and other prepared meats .....	27.1	27.2	28.2	28.3	28.8
2013	Poultry dressing plants .....	21.0	21.0	21.5	21.5	21.3
2016	Dairy products .....	54.5	55.1	60.8	61.6	61.2
202	Fluid milk .....	38.2	38.4	38.5	38.8	39.1
2026	Preserved fruits and vegetables .....	19.6	19.7	19.3	19.5	19.5
203	Canned specialties .....	111.7	147.2	99.9	109.2	144.6
2032	Canned fruits and vegetables .....	8.4	9.2	8.5	8.5	9.0
2033	Frozen fruits and vegetables .....	42.3	74.6	27.4	39.3	72.2
2037	Grain mill products .....	23.2	23.8	29.2	25.7	26.5
204	Bakery products .....	28.5	29.2	28.8	28.9	29.5
205	Bread, cake, and related products .....	63.0	62.7	62.7	61.9	62.2
2051	Cookies and crackers .....	42.7	42.3	42.5	41.9	42.0
2052	Sugar and confectionery products .....	20.3	20.4	20.2	20.0	20.2
206	Fats and oils .....	36.5	39.0	39.1	39.2	43.4
207	Beverages .....	5.3	5.4	5.2	5.1	5.1
208	Malt beverages .....	36.6	36.7	36.7	36.7	37.7
2082	Bottled and canned soft drinks .....	5.9	5.9	6.2	6.4	6.5
2086	Misc. foods and kindred products .....	16.6	16.7	17.5	17.6	17.8
209	Misc. foods and kindred products .....	75.2	77.4	73.0	72.8	73.9
<b>TOBACCO MANUFACTURES</b>						
21	Cigarettes .....	22.0	26.3	21.6	21.1	25.7
211	Cigarettes .....	13.8	13.6	13.4	13.4	13.7

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1978	Aug. 1978	June 1979	July 1979	Aug. 1979
22	<b>TEXTILE MILL PRODUCTS</b>	416.0	425.7	427.7	414.0	423.7
221	Weaving mills, cotton	61.9	63.1	65.5	65.0	65.3
222	Weaving mills, synthetics	49.4	49.5	51.9	50.9	51.6
223	Weaving and finishing mills, wool	7.7	7.8	8.2	7.8	8.3
224	Narrow fabric mills	14.8	15.1	15.8	13.8	14.9
225	Knitting mills	152.7	157.7	151.7	146.1	150.9
2251	Women's hosiery, except socks	20.9	21.9	23.6	23.0	23.4
2252	Hosiery, nec	25.6	25.9	25.8	25.1	25.2
2253	Knit outerwear mills	57.7	60.5	53.9	51.7	54.5
2254	Knit underwear mills	24.8	25.0	25.3	24.0	25.2
2257	Circular knit fabric mills	13.3	14.0	13.3	13.2	12.9
226	Textile finishing, except wool	23.1	23.1	23.3	22.6	23.0
2261	Finishing plants, cotton	10.0	10.2	10.2	10.1	10.1
2262	Finishing plants, synthetic	6.4	6.0	6.4	6.1	6.2
227	Floor covering mills	24.5	25.1	25.1	25.0	25.0
228	Yarn and thread mills	61.7	63.5	65.3	62.2	64.6
2281	Yarn mills, except wool	39.7	40.1	41.5	39.9	41.5
2282	Throwing and winding mills	12.0	12.3	12.8	12.0	12.3
229	Miscellaneous textile goods	29.2	20.8	20.9	20.6	20.1
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,035.7	1,085.4	1,078.9	1,032.5	1,059.0
231	Men's and boys' suits and coats	68.9	71.6	68.7	66.3	66.2
232	Men's and boys' furnishings	296.3	312.0	311.9	300.4	311.2
2321	Men's and boys' shirts and nightwear	90.7	95.2	94.0	88.4	93.5
2327	Men's and boys' separate trousers	64.7	66.4	66.5	64.3	65.8
2328	Men's and boys' work clothing	73.1	80.3	84.5	83.3	85.9
233	Women's and misses' outerwear	360.9	379.4	380.7	361.1	369.9
2331	Women's and misses' blouses and waists	50.7	52.7	55.0	51.8	52.6
2335	Women's and misses' dresses	139.9	148.5	148.2	142.3	145.9
2337	Women's and misses' suits and coats	52.3	56.4	57.9	53.3	55.8
2339	Women's and misses' outerwear, nec	118.0	121.8	119.6	113.7	115.6
234	Women's and children's undergarments	77.2	80.2	78.3	73.9	78.9
2341	Women's and children's underwear	61.3	64.1	62.4	59.0	63.1
2342	Brassieres and allied garments	15.9	16.1	15.9	14.9	15.8
236	Children's outerwear	59.4	59.6	58.9	56.9	56.7
2361	Children's dresses and blouses	24.0	22.9	23.3	22.9	21.5
238	Misc. apparel and accessories	44.5	47.1	45.6	42.5	44.5
239	Misc. fabricated textile products	115.3	122.9	121.5	118.1	118.6
2391	Curtains and draperies	22.2	25.1	24.2	22.7	24.4
2392	House furnishings, nec	31.5	33.3	32.8	32.3	33.1
2396	Automotive and apparel trimmings	16.3	18.1	18.0	17.3	16.1
26	<b>PAPER AND ALLIED PRODUCTS</b>	159.4	161.4	167.3	164.8	166.4
261, 2,6	Paper and pulp mills	26.5	25.4	27.0	27.3	27.4
262	Paper mills, except building paper	23.6	22.6	24.0	24.3	24.5
263	Paperboard mills	6.2	6.2	6.5	6.6	6.6
264	Misc. converted paper products	76.7	78.4	80.4	79.0	80.3
265	Paperboard containers and boxes	50.0	51.4	53.4	51.9	52.1
27	<b>PRINTING AND PUBLISHING</b>	453.9	458.1	482.6	485.4	487.5
271	Newspapers	143.3	143.3	151.6	153.3	154.1
272	Periodicals	47.8	48.4	49.9	50.0	51.2
273	Books	53.4	52.5	55.0	55.0	54.1
274	Miscellaneous publishing	24.2	24.9	25.8	26.1	26.4
275	Commercial printing	116.9	119.1	127.3	127.3	127.6
2751	Commercial printing, letterpress	53.0	54.2	57.3	57.1	56.6
2752	Commercial printing, lithographic	59.1	60.1	64.7	65.1	65.4
276	Manifold business forms	13.8	14.0	15.6	15.6	15.7
278	Blankbooks and bookbinding	32.2	32.5	34.8	34.7	35.0
279	Printing trade services	8.4	8.4	9.0	9.2	9.2
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	262.2	263.6	275.6	275.7	275.5
281	Industrial inorganic chemicals	23.0	23.0	25.0	25.4	25.3
2819	Industrial inorganic chemicals, nec	15.7	15.7	16.6	16.8	16.7
282	Plastics materials and synthetics	45.2	45.4	47.5	47.7	47.9
2821	Plastics materials and resins	10.4	10.3	11.4	11.5	11.5
2824	Organic fibers, noncellulosic	26.3	26.4	27.1	27.0	26.8
283	Drugs	75.2	75.1	79.8	79.4	79.3
2834	Pharmaceutical preparations	64.1	64.1	68.0	67.4	67.3
284	Soap, cleaners, and toilet goods	54.8	56.2	55.8	55.6	55.8
2841	Soap and other detergents	9.2	9.3	9.3	9.3	9.2
2844	Toilet preparations	32.7	33.9	32.8	32.9	33.2
285	Paints and allied products	12.2	12.5	13.0	13.2	13.3
286	Industrial organic chemicals	24.4	24.0	24.8	24.7	24.5
2861,9	Gum, wood, and industrial organic chemicals, nec	19.8	19.4	20.0	19.9	19.6
287	Agricultural chemicals	8.9	8.9	10.2	10.1	10.0
289	Miscellaneous chemical products	18.5	18.5	19.5	19.6	19.4



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1978	Aug. 1978	June 1979	July 1979	Aug. 1979
29	<b>PETROLEUM AND COAL PRODUCTS</b>	25.5	25.4	27.2	27.6	27.7
291	Petroleum refining	20.7	20.6	22.1	22.3	22.3
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b>	254.7	260.9	276.4	271.4	269.5
301	Tires and inner tubes	12.0	12.3	12.0	12.0	11.9
302	Rubber and plastics footwear	12.3	14.0	13.8	12.6	13.0
303,4	Reclaimed rubber, and rubber and plastics hose and belting	6.3	6.2	6.3	6.2	6.1
306	Fabricated rubber products, nec	38.8	39.5	41.6	41.0	40.7
307	Miscellaneous plastics products	185.3	188.9	202.7	199.6	197.8
31	<b>LEATHER AND LEATHER PRODUCTS</b>	147.5	158.3	154.5	135.4	148.8
311	Leather tanning and finishing	3.1	3.3	3.1	2.9	3.0
314	Footwear, except rubber	100.7	107.4	103.1	88.2	98.2
3143	Men's footwear, except athletic	37.9	40.4	38.8	33.6	35.5
3144	Women's footwear, except athletic	42.0	44.7	43.7	35.8	43.2
316	Luggage	8.9	10.0	9.7	9.6	9.6
317	Handbags and personal leather goods	21.5	23.2	24.3	22.3	24.5
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	1,124	1,132	1,242	1,227	1,232
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b>	33.3	33.5	57.2	36.3	35.2
411	Local and suburban transportation	9.0	9.0	10.5	10.7	10.8
412	Taxicabs	6.9	6.7	7.3	7.1	6.7
413	Intercity highway transportation	4.7	4.7	4.6	4.7	5.2
415	School buses	10.6	11.0	32.2	11.7	10.6
42	<b>TRUCKING AND WAREHOUSING</b>	142.8	145.5	156.7	157.3	158.4
421,3	Trucking and trucking terminals	127.5	129.4	140.6	141.0	141.6
422	Public warehousing	15.3	16.1	16.1	16.3	16.8
44	<b>WATER TRANSPORTATION</b>	18.3	18.2	19.8	20.4	20.3
45	<b>TRANSPORTATION BY AIR</b>	126.7	125.5	136.5	136.8	137.9
451,2	Air transportation	119.9	118.6	128.8	129.1	130.4
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b>	2.0	2.0	2.3	2.2	2.2
47	<b>TRANSPORTATION SERVICES</b>	76.9	78.7	85.9	86.5	87.8
48	<b>COMMUNICATION</b>	569.7	574.4	618.4	619.9	621.5
481	Telephone communication	501.1	505.1	542.0	543.0	543.6
483	Radio and television broadcasting	53.3	53.9	59.7	59.8	60.5
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	135.0	135.1	142.9	144.9	146.1
491	Electric services	59.3	59.4	64.1	64.8	65.4
492	Gas production and distribution	34.5	34.4	35.8	36.4	36.6
493	Combination utility services	32.1	32.1	33.2	33.7	34.0
495	Sanitary services	4.4	4.5	4.7	4.9	4.9
-	<b>WHOLESALE AND RETAIL TRADE</b>	8,217	8,274	8,658	8,603	8,635
50,51	<b>WHOLESALE TRADE</b>	1,226	1,237	1,313	1,310	1,316
50	<b>WHOLESALE TRADE-DURABLE GOODS</b>	670	675	726	726	728
501	Motor vehicles and automotive equipment	89.0	89.1	94.9	94.5	94.2
502	Furniture and home furnishings	35.4	35.7	38.3	37.9	37.9
503	Lumber and construction materials	28.9	29.5	32.2	32.2	32.3
504	Sporting goods, toys, and hobby goods	22.9	22.0	22.3	22.1	22.0
505	Metals and minerals, except petroleum	25.6	26.0	28.0	28.1	28.4
506	Electrical goods	106.3	108.2	116.7	116.1	115.9
507	Hardware, plumbing, and heating equipment	61.7	62.4	67.2	67.9	68.4
508	Machinery, equipment, and supplies	253.1	254.7	276.7	279.2	280.7
509	Miscellaneous durable goods	47.0	47.1	49.6	48.0	48.3
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b>	556	562	587	584	588
511	Paper and paper products	38.8	38.6	41.5	41.4	41.5
512	Drugs, proprietaries, and sundries	58.3	58.4	63.8	63.6	64.9
513	Apparel, piece goods, and notions	76.9	79.1	81.1	81.2	81.6
514	Groceries and related products	148.9	148.3	147.4	146.1	146.3
516	Chemicals and allied products	29.0	28.7	30.5	30.4	30.4
517	Petroleum and petroleum products	47.7	48.3	49.3	49.5	49.4
518	Beer, wine, and distilled beverages	19.3	19.5	20.7	21.0	21.1
519	Miscellaneous nondurable goods	107.1	109.2	117.4	117.6	118.5

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1978	Aug. 1978	June 1979	July 1979	Aug. 1979
52-59	<b>RETAIL TRADE</b> .....	6,991	7,037	7,345	7,293	7,319
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	146.1	147.8	154.7	153.4	152.4
521	Lumber and other building materials .....	59.6	60.8	62.5	62.8	62.3
525	Hardware stores .....	48.8	48.8	52.5	52.7	52.9
53	<b>GENERAL MERCHANDISE STORES</b> .....	1,510.7	1,513.2	1,473.0	1,462.2	1,461.4
531	Department stores .....	1,207.1	1,206.5	1,160.0	1,149.7	1,145.9
533	Variety stores .....	216.9	219.1	216.3	214.8	216.0
539	Misc. general merchandise stores .....	86.7	87.6	96.7	97.7	99.5
54	<b>FOOD STORES</b> .....	886.8	890.7	937.4	937.6	941.5
541	Grocery stores .....	740.4	746.5	789.0	793.9	798.0
542	Meat markets and freezer provisioners .....	14.3	14.5	17.3	17.3	17.1
546	Retail bakeries .....	72.2	71.4	74.8	72.7	72.7
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	303.1	302.8	318.2	312.8	315.9
551.2	New and used car dealers .....	121.1	121.7	127.2	125.5	125.2
553	Auto and home supply stores .....	46.6	46.1	48.2	47.5	47.8
554	Gasoline service stations .....	119.6	120.0	125.2	122.7	125.9
56	<b>APPAREL AND ACCESSORY STORES</b> .....	596.1	602.0	635.6	625.1	632.7
561	Men's and boys' clothing and furnishings .....	57.9	58.3	60.5	60.0	60.1
562	Women's ready-to-wear stores .....	290.4	291.9	310.3	303.0	304.3
565	Family clothing stores .....	118.4	122.0	127.4	127.1	129.9
566	Shoe stores .....	65.2	65.7	72.8	71.7	73.4
57	<b>FURNITURE AND HOME FURNISHING STORES</b> .....	193.1	193.4	197.4	197.3	196.3
571	Furniture and home furnishings .....	124.8	124.9	128.5	127.9	127.7
572	Household appliance stores .....	23.0	22.6	24.6	24.6	24.2
573	Radio, television, and music stores .....	35.3	35.9	44.3	44.8	44.4
58	<b>EATING AND DRINKING PLACES</b> .....	2,449.1	2,469.8	2,654.0	2,636.5	2,651.2
59	<b>MISCELLANEOUS RETAIL</b> .....	915.5	926.9	974.4	967.9	967.3
591	Drug stores and proprietary stores .....	283.3	286.8	308.6	309.9	310.0
592	Liquor stores .....	25.9	26.5	33.4	33.5	33.7
594	Miscellaneous shopping goods stores .....	310.8	316.1	334.0	333.6	331.6
596	Nonstore retailers .....	150.3	152.9	140.5	139.0	141.9
598	Fuel and ice dealers .....	21.0	20.8	21.8	21.6	21.6
599	Retail stores, nec .....	104.2	103.7	115.3	110.6	109.0
-	<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	2,743	2,757	2,897	2,915	2,932
60	<b>BANKING</b> .....	993.4	999.0	1,047.3	1,053.8	1,060.5
602	Commercial and stock savings banks .....	914.3	920.1	964.0	969.7	975.9
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	335.0	337.1	361.2	363.5	365.6
612	Savings and loan associations .....	160.6	161.2	173.7	174.9	175.9
614	Personal credit institutions .....	113.2	114.3	123.2	123.9	124.2
62	<b>SECURITY, COMMODITY BROKERS, AND SERVICES</b> .....	73.2	74.0	80.2	81.3	82.0
621	Security brokers and dealers .....	57.7	58.5	63.4	64.2	64.9
63	<b>INSURANCE CARRIERS</b> .....	700.7	702.1	733.5	736.5	738.3
631	Life insurance .....	272.4	272.1	279.0	281.2	280.9
632	Medical service and health insurance .....	98.5	98.4	99.9	99.8	100.2
633	Fire, marine, and casualty insurance .....	279.1	281.3	302.5	303.7	304.7
64	<b>INSURANCE AGENTS, BROKERS, AND SERVICE</b> .....	247.4	249.5	263.2	263.9	267.6
65	<b>REAL ESTATE</b> .....	325.1	326.2	338.2	342.8	344.4
651	Real estate operators and lessors .....	132.1	131.6	134.0	135.8	136.4
653	Real estate agents and managers .....	144.5	145.7	156.0	158.3	159.3
655	Subdividers and developers .....	31.9	32.2	30.7	31.1	31.3
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC</b> .....	17.0	17.2	17.3	17.0	17.0
67	<b>HOLDING AND OTHER INVESTMENT OFFICES</b> .....	51.0	51.6	55.6	56.2	56.8
-	<b>SERVICES</b> .....	9,402	9,445	9,977	9,979	10,013
70	<b>HOTELS AND OTHER LODGING PLACES</b> .....	580.9	592.1	605.0	636.2	642.5
701	Hotels, motels, and tourist courts .....	542.1	549.4	578.6	593.3	595.5

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	July 1978	Aug. 1978	June 1979	July 1979	Aug. 1979
72	<b>PERSONAL SERVICES</b> .....	595.9	593.9	605.1	597.6	600.0
721	Laundry, cleaning, and garment services .....	223.3	221.0	224.0	220.5	218.0
723	Beauty shops .....	244.0	245.0	247.6	247.4	249.8
726	Funeral service and crematories .....	17.9	18.0	18.9	19.1	18.9
73	<b>BUSINESS SERVICES</b> .....	1,104.7	1,122.0	1,213.0	1,209.9	1,227.9
731	Advertising .....	65.0	65.2	68.5	69.0	69.3
732	Credit reporting and collection .....	58.5	58.3	56.7	56.9	56.5
733	Mailing, reproduction, stenographic .....	47.9	48.8	50.6	50.5	49.7
734	Services to buildings .....	160.3	162.1	175.7	174.2	181.3
736	Personnel supply services .....	256.1	262.8	286.5	281.9	291.0
737	Computer and data processing services .....	103.4	103.7	120.2	122.0	122.1
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	98.8	89.5	95.0	96.4	93.9
753	Automotive repair shops .....	40.8	41.3	43.3	45.2	42.5
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	48.5	48.8	58.0	58.5	58.3
78	<b>MOTION PICTURES</b> .....	84.1	85.7	83.6	84.8	85.3
781	Motion picture production and services .....	21.4	22.4	20.9	21.3	22.4
783	Motion picture theaters .....	56.9	57.3	56.8	57.5	57.0
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	314.6	320.6	327.2	333.1	325.5
80	<b>HEALTH SERVICES</b> .....	3,925.8	3,934.8	4,118.4	4,123.2	4,139.1
801	Offices of physicians .....	537.4	539.3	563.0	563.0	565.8
802	Offices of dentists .....	256.3	255.3	274.1	269.7	271.9
805	Nursing and personal care facilities .....	824.3	831.8	877.6	880.4	887.5
806	Hospitals .....	2,064.9	2,065.4	2,137.9	2,146.7	2,149.9
81	<b>LEGAL SERVICES</b> .....	310.6	311.7	330.6	330.5	332.1
82	<b>EDUCATIONAL SERVICES</b> .....	437.1	431.2	485.8	442.2	441.5
821	Elementary and secondary schools .....	120.9	119.1	139.8	123.8	124.2
822	Colleges and universities .....	258.9	254.9	281.5	255.9	255.5
83	<b>SOCIAL SERVICES</b> .....	723.9	730.8	776.7	789.7	786.6
89	<b>MISCELLANEOUS SERVICES</b> .....	260.3	262.4	285.8	286.6	290.0
891	Engineering and architectural services .....	93.1	93.7	102.9	104.3	104.5
893	Accounting, auditing, and bookkeeping .....	114.3	115.1	126.0	125.3	127.6
-	<b>GOVERNMENT</b> .....	6,514	6,385	7,354	6,724	6,723
-	<b>FEDERAL GOVERNMENT</b> .....	897	886	890	895	899
-	<b>STATE AND LOCAL GOVERNMENT</b> .....	5,637	5,499	6,464	5,829	5,824
-	State government .....	1,417.0	1,401.6	1,464.6	1,418.6	1,422.1
-	Hospitals .....	312.7	311.0	330.6	327.2	328.3
-	State education .....	485.8	479.8	557.8	509.6	508.1
-	General administration including executive, legislative, and judicial functions .....	421.5	414.6	384.8	385.5	386.7
-	Local government .....	4,220.4	4,097.8	4,999.3	4,410.7	4,402.2
-	Transportation and public utilities .....	76.8	77.1	88.6	88.5	88.3
-	Hospitals .....	397.8	396.7	415.2	418.7	422.5
-	Local education .....	2,536.9	2,426.1	3,351.0	2,679.4	2,681.6
-	General administration including executive, legislative, and judicial functions .....	1,004.2	994.4	935.9	1,000.3	995.2

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these

revisions, establishment data in this table may differ from data published earlier. See article in the October issue for additional information, and the November Supplement for revised data.

# 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									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>	Oct. <sup>P</sup>
<b>TOTAL</b> .....	87,424	87,840	88,123	88,433	88,700	89,039	89,036	89,398	89,626	89,713	89,762	89,845	90,151
<b>GOODS-PRODUCING</b> .....	25,941	26,120	26,272	26,382	26,448	26,627	26,565	26,651	26,674	26,723	26,599	26,591	26,623
<b>MINING</b> .....	910	919	922	927	937	940	940	944	949	956	968	972	972
<b>CONSTRUCTION</b> .....	4,398	4,429	4,469	4,497	4,486	4,614	4,559	4,648	4,662	4,688	4,674	4,665	4,693
<b>MANUFACTURING</b> .....	20,633	20,772	20,881	20,958	21,025	21,073	21,066	21,059	21,063	21,079	20,957	20,954	20,958
<b>DURABLE GOODS</b> .....	12,419	12,510	12,583	12,640	12,715	12,751	12,752	12,739	12,760	12,786	12,714	12,742	12,686
Lumber and wood products .....	752	769	765	768	768	769	761	762	757	753	752	760	765
Furniture and fixtures .....	490	492	494	497	496	493	490	487	485	488	484	481	483
Stone, clay, and glass products .....	701	704	710	709	712	718	714	715	715	711	710	708	707
Primary metal industries .....	1,229	1,242	1,247	1,250	1,256	1,259	1,260	1,254	1,257	1,256	1,245	1,237	1,236
Fabricated metal products .....	1,692	1,706	1,718	1,725	1,733	1,732	1,732	1,730	1,737	1,730	1,714	1,717	1,730
Machinery, except electrical .....	2,369	2,382	2,404	2,419	2,437	2,450	2,466	2,471	2,484	2,500	2,492	2,499	2,458
Electric and electronic equipment .....	2,025	2,017	2,050	2,065	2,079	2,093	2,101	2,106	2,124	2,131	2,092	2,115	2,127
Transportation equipment .....	2,037	2,057	2,063	2,069	2,094	2,094	2,084	2,077	2,057	2,073	2,079	2,087	2,033
Instruments and related products .....	666	670	674	679	682	685	689	688	693	694	695	691	698
Miscellaneous manufacturing ind. ....	458	460	458	459	458	458	455	449	451	450	451	447	449
<b>NONDURABLE GOODS</b> .....	8,214	8,262	8,298	8,318	8,310	8,322	8,314	8,320	8,303	8,293	8,243	8,212	8,272
Food and kindred products .....	1,708	1,725	1,736	1,735	1,729	1,736	1,728	1,725	1,720	1,707	1,696	1,691	1,716
Tobacco manufactures .....	69	69	69	68	68	69	69	70	69	68	64	66	66
Textile mill products .....	397	397	399	400	399	397	392	393	392	386	386	384	390
Apparel and other textile products .....	1,330	1,330	1,333	1,339	1,327	1,324	1,325	1,324	1,312	1,324	1,302	1,295	1,304
Paper and allied products .....	692	700	703	706	711	716	717	714	715	718	717	714	715
Printing and publishing .....	1,199	1,212	1,218	1,225	1,229	1,232	1,234	1,236	1,242	1,250	1,247	1,244	1,254
Chemicals and allied products .....	1,098	1,102	1,106	1,109	1,108	1,108	1,111	1,114	1,119	1,116	1,111	1,109	1,113
Petroleum and coal products .....	210	210	211	211	212	213	213	213	212	212	213	215	219
Rubber and misc. plastic products .....	755	763	770	774	779	780	781	784	775	777	764	751	754
Leather and leather products .....	256	254	253	251	248	247	244	247	247	229	243	243	241
<b>SERVICE-PRODUCING</b> .....	61,483	61,720	61,861	62,051	62,252	62,412	62,471	62,747	62,952	62,990	63,163	63,254	63,528
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	5,014	5,038	5,054	5,071	5,094	5,116	5,024	5,130	5,190	5,169	5,194	5,181	5,229
<b>WHOLESALE AND RETAIL TRADE</b> .....	19,744	19,829	19,858	19,965	20,016	20,054	20,088	20,129	20,116	20,122	20,126	20,149	20,281
<b>WHOLESALE TRADE</b> .....	5,025	5,054	5,077	5,102	5,118	5,134	5,138	5,156	5,180	5,182	5,185	5,187	5,224
<b>RETAIL TRADE</b> .....	14,719	14,775	14,781	14,863	14,898	14,920	14,950	14,973	14,936	14,940	14,941	14,962	15,057
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4,793	4,827	4,847	4,868	4,884	4,899	4,915	4,936	4,958	4,972	5,003	4,995	5,025
<b>SERVICES</b> .....	16,464	16,554	16,630	16,670	16,763	16,833	16,880	16,954	17,051	17,092	17,141	17,220	17,290
<b>GOVERNMENT</b> .....	15,468	15,472	15,472	15,477	15,495	15,510	15,564	15,598	15,637	15,635	15,699	15,709	15,703
<b>FEDERAL</b> .....	2,760	2,757	2,734	2,758	2,757	2,757	2,758	2,770	2,788	2,785	2,813	2,798	2,791
<b>STATE AND LOCAL</b> .....	12,708	12,715	12,738	12,719	12,738	12,753	12,806	12,828	12,849	12,850	12,886	12,911	12,912

<sup>p</sup>=preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in the October issue for additional information, and the November Supplement for revised data.

**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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>TOTAL</b> .....	35,435	35,577	35,748	35,951	36,074	36,271	36,385	36,517	36,669	36,789	36,916	37,102	37,262
<b>GOODS-PRODUCING</b> .....	6,667	6,684	6,735	6,781	6,827	6,865	6,877	6,899	6,920	6,939	6,960	6,971	6,907
<b>MINING</b> .....	79	80	81	82	83	84	85	87	87	89	91	92	94
<b>CONSTRUCTION</b> .....	339	340	342	343	345	350	353	357	362	367	374	379	380
<b>MANUFACTURING</b> .....	6,249	6,264	6,312	6,356	6,399	6,431	6,439	6,455	6,471	6,483	6,495	6,500	6,433
<b>DURABLE GOODS</b> .....	2,907	2,927	2,960	2,985	3,012	3,029	3,053	3,069	3,082	3,087	3,102	3,109	3,068
Lumber and wood products .....	107	108	109	110	112	112	113	114	114	114	113	113	113
Furnitures and fixtures .....	143	143	144	145	146	146	146	145	145	144	145	146	145
Stone, clay, and glass products .....	129	129	130	130	132	131	132	134	134	134	135	134	133
Primary metal industries .....	123	125	126	127	129	130	131	131	134	134	138	137	135
Fabricated metal products .....	343	345	349	352	355	357	360	361	361	362	363	363	360
Machinery, except electrical .....	434	438	444	446	453	456	460	464	469	473	473	479	478
Electric and electronic equipment .....	839	842	849	855	863	870	877	884	887	892	902	907	888
Transportation equipment .....	294	300	309	315	318	320	326	326	326	326	323	321	307
Instruments and related products .....	280	281	282	286	286	289	291	293	294	295	296	296	296
Miscellaneous manufacturing ind. ....	215	216	218	219	218	218	217	217	218	213	214	213	213
<b>NONDURABLE GOODS</b> .....	3,342	3,337	3,352	3,371	3,387	3,402	3,386	3,386	3,389	3,396	3,393	3,391	3,365
Food and kindred products .....	488	486	493	503	509	512	507	509	508	511	511	502	495
Tobacco manufactures .....	24	25	26	25	26	25	25	25	26	26	25	24	23
Textile mill products .....	424	424	424	424	425	425	424	423	422	422	424	422	422
Apparel and other textile products .....	1,082	1,083	1,081	1,080	1,081	1,087	1,075	1,071	1,072	1,072	1,062	1,073	1,056
Paper and allied products .....	160	159	159	160	161	163	163	165	165	164	164	165	164
Printing and publishing .....	459	458	462	467	470	474	476	477	479	479	482	487	488
Chemicals and allied products .....	260	260	262	264	266	268	268	268	269	271	273	274	271
Petroleum and coal products .....	25	25	25	25	25	25	25	25	26	26	27	27	27
Rubber and misc. plastics products .....	264	260	264	269	271	271	273	273	273	275	275	279	272
Leather and leather products .....	156	157	156	154	153	152	150	150	149	150	150	138	147
<b>SERVICE-PRODUCING</b> .....	28,768	28,893	29,013	29,170	29,247	29,406	29,508	29,618	29,749	29,850	29,956	30,131	30,355
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	1,142	1,149	1,163	1,170	1,179	1,195	1,205	1,209	1,202	1,214	1,233	1,236	1,243
<b>WHOLESALE AND RETAIL TRADE</b> .....	8,332	8,357	8,400	8,449	8,423	8,526	8,552	8,595	8,627	8,673	8,670	8,684	8,695
<b>WHOLESALE TRADE</b> .....	1,238	1,242	1,262	1,271	1,279	1,286	1,290	1,297	1,297	1,307	1,310	1,317	1,317
<b>RETAIL TRADE</b> .....	7,094	7,115	7,138	7,178	7,144	7,240	7,262	7,298	7,330	7,366	7,360	7,367	7,378
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	2,738	2,749	2,767	2,787	2,802	2,817	2,826	2,837	2,850	2,862	2,880	2,892	2,912
<b>SERVICES</b> .....	9,436	9,469	9,512	9,581	9,640	9,672	9,710	9,754	9,798	9,846	9,898	9,939	10,003
<b>GOVERNMENT</b> .....	7,120	7,169	7,171	7,183	7,203	7,196	7,215	7,223	7,272	7,255	7,275	7,380	7,502
<b>FEDERAL</b> .....	878	877	877	874	866	863	862	862	861	866	875	874	891
<b>STATE AND LOCAL</b> .....	6,242	6,292	6,294	6,309	6,337	6,333	6,353	6,361	6,411	6,389	6,400	6,506	6,611

<sup>1</sup> 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.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in the October issue for additional information, and the November Supplement for revised data.

# ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

## B-8. Production or nonsupervisory workers' on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

(In thousands)

Industry division and group	1978			1979									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. P	Oct. P
<b>TOTAL PRIVATE</b> .....	58,876	59,248	59,470	59,688	59,883	60,161	60,051	60,326	60,495	60,544	60,475	60,521	60,829
<b>GOODS-PRODUCING</b> .....	19,016	19,163	19,289	19,372	19,409	19,555	19,475	19,542	19,537	19,560	19,415	19,410	19,458
<b>MINING</b> .....	688	695	697	700	707	707	708	708	709	713	725	728	724
<b>CONSTRUCTION</b> .....	3,512	3,535	3,571	3,587	3,574	3,695	3,633	3,722	3,732	3,757	3,734	3,723	3,751
<b>MANUFACTURING</b> .....	14,816	14,933	15,021	15,085	15,128	15,153	15,134	15,112	15,096	15,090	14,956	14,959	14,983
<b>DURABLE GOODS</b> .....	8,908	8,983	9,042	9,085	9,138	9,158	9,146	9,119	9,123	9,124	9,044	9,070	9,029
Lumber and wood products .....	643	649	654	656	655	657	649	649	646	643	642	647	652
Furniture and fixtures .....	403	404	406	408	406	404	401	397	395	398	394	392	394
Stone, clay, and glass products .....	555	559	563	562	564	569	563	564	565	560	558	558	556
Primary metal industries .....	968	990	985	987	992	995	995	987	991	988	976	972	969
Fabricated metal products .....	1,285	1,296	1,306	1,310	1,317	1,315	1,314	1,310	1,316	1,309	1,291	1,296	1,302
Machinery, except electrical .....	1,559	1,567	1,585	1,595	1,610	1,615	1,625	1,628	1,632	1,641	1,628	1,640	1,624
Electric and electronic equipment .....	1,326	1,338	1,346	1,360	1,369	1,378	1,384	1,384	1,393	1,395	1,359	1,368	1,386
Transportation equipment .....	1,411	1,428	1,434	1,439	1,456	1,455	1,446	1,438	1,417	1,426	1,431	1,436	1,377
Instruments and related products .....	409	412	414	418	421	422	423	421	424	422	421	419	427
Miscellaneous manufacturing ind. ....	349	350	349	350	348	348	346	341	344	342	344	342	342
<b>NONDURABLE GOODS</b> .....	5,908	5,950	5,979	6,000	5,990	5,995	5,988	5,993	5,973	5,966	5,912	5,889	5,954
Food and kindred products .....	1,161	1,176	1,189	1,191	1,184	1,191	1,187	1,184	1,181	1,170	1,157	1,153	1,174
Tobacco manufactures .....	55	55	55	55	54	55	56	56	55	54	50	52	53
Textile mill products .....	781	783	783	785	783	781	777	778	777	778	771	770	775
Apparel and other textile products .....	1,143	1,142	1,142	1,149	1,137	1,131	1,131	1,133	1,122	1,130	1,110	1,105	1,116
Paper and allied products .....	520	526	530	532	537	542	543	541	541	547	545	542	544
Printing and publishing .....	672	681	685	690	694	696	696	700	701	707	705	702	711
Chemicals and allied products .....	629	632	635	637	636	635	636	636	640	639	634	633	640
Petroleum and coal products .....	137	138	138	138	139	139	140	139	139	138	139	140	145
Rubber and misc. plastics products .....	590	599	606	609	614	614	614	616	607	609	595	585	590
Leather and leather products .....	220	218	216	214	212	211	208	210	210	194	206	207	206
<b>SERVICE-PRODUCING</b> .....	39,860	40,085	40,181	40,316	40,474	40,606	40,576	40,784	40,958	40,984	41,060	41,111	41,371
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,206	4,228	4,235	4,248	4,268	4,283	4,197	4,293	4,351	4,333	4,348	4,336	4,379
<b>WHOLESALE AND RETAIL TRADE</b> .....	17,392	17,468	17,487	17,578	17,618	17,648	17,662	17,691	17,689	17,681	17,689	17,698	17,823
<b>WHOLESALE TRADE</b> .....	4,142	4,157	4,175	4,194	4,206	4,222	4,221	4,237	4,257	4,255	4,256	4,256	4,297
<b>RETAIL TRADE</b> .....	13,250	13,311	13,312	13,384	13,412	13,426	13,441	13,454	13,432	13,426	13,433	13,442	13,526
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,647	3,676	3,690	3,705	3,716	3,729	3,743	3,756	3,777	3,788	3,804	3,793	3,815
<b>SERVICES</b> .....	14,615	14,713	14,769	14,785	14,872	14,946	14,974	15,044	15,141	15,182	15,219	15,284	15,354

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

p = preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in the October issue for additional information, and the November Supplement for revised data.

**ESTABLISHMENT DATA**  
**SEASONALLY ADJUSTED EMPLOYMENT**

**B-7. Indexes of diffusion: Percent of industries in which employment<sup>1</sup> increased**

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
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	63.7p
April.....	44.8	55.2	58.1	66.0p
May.....	54.7	51.5	50.3	
June.....	57.0	58.4	46.8p	
July.....	61.6	56.7	59.6p	
August.....	48.8	52.6p		
September.....	47.7p	60.5p		
October.....	74.7p			
November.....				
December.....				

<sup>1</sup> 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		
	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
1 ALABAMA .....	1,355.3	1,351.9	1,359.9	16.0	16.1	16.2	83.7	81.1	80.9	369.2	362.4	362.1
2 Birmingham .....	354.6	356.6	358.7	9.1	9.1	9.2	24.7	23.6	23.0	69.8	68.3	68.3
3 Huntsville .....	119.5	120.2	121.0	(1)	(1)	(1)	4.6	4.7	4.5	35.2	35.2	35.2
4 Mobile .....	148.6	146.4	143.8	(1)	(1)	(1)	12.1	12.5	11.9	30.9	28.9	28.5
5 Montgomery .....	103.8	107.6	107.5	(1)	(1)	(1)	6.9	8.1	8.3	15.8	16.4	16.4
6 Tuscaloosa .....	49.0	48.7	49.1	1.1	1.4	1.4	3.2	3.2	3.1	8.9	9.2	9.1
7 ALASKA .....	173.3	174.8	(*)	5.7	5.3	(*)	14.8	12.7	(*)	13.9	18.1	(*)
8 ARIZONA .....	898.5	931.8	952.8	19.4	22.0	21.9	72.9	79.4	79.1	129.0	141.1	142.8
9 Phoenix .....	554.3	579.8	589.9	.2	.2	.2	46.3	51.1	51.1	93.9	103.5	104.5
10 Tucson .....	162.1	167.3	172.6	5.7	7.1	7.2	12.8	14.2	14.2	16.4	18.8	19.0
11 ARKANSAS .....	740.3	742.6	750.1	4.9	5.4	5.4	38.1	41.7	40.3	218.6	214.0	213.6
12 Fayetteville-Springdale .....	62.4	62.8	64.1	(1)	(1)	(1)	3.1	3.5	3.3	18.6	19.0	18.8
13 Fort Smith .....	68.3	65.6	66.6	.8	.8	.8	3.2	3.4	3.3	25.3	23.5	22.9
14 Little Rock-North Little Rock .....	172.9	177.9	178.7	(1)	(1)	(1)	9.3	10.4	10.0	31.2	30.7	31.6
15 Pine Bluff .....	31.5	30.4	31.6	(1)	(1)	(1)	2.3	2.1	2.1	6.3	6.3	6.3
16 CALIFORNIA .....	9,379.6	9,679.1	9,764.0	37.6	39.5	39.4	449.1	457.2	461.2	1,944.3	2,017.7	2,029.4
17 Anaheim-Santa Ana-Garden Grove .....	757.7	803.7	807.4	2.3	2.3	2.3	49.7	50.5	50.7	201.1	214.3	213.9
18 Bakersfield .....	121.4	125.2	125.0	10.1	10.6	10.5	7.2	7.2	7.2	9.7	9.9	9.9
19 Fresno .....	178.3	184.3	188.1	.9	.9	.9	12.1	13.5	13.5	24.8	26.1	26.4
20 Los Angeles-Long Beach .....	3,466.2	3,555.4	3,581.6	11.5	11.7	11.7	113.5	116.7	117.6	893.3	920.9	926.8
21 Modesto .....	91.6	96.3	98.0	.1	.1	.1	6.2	6.8	6.7	26.1	28.8	29.3
22 Oxnard-Simi Valley-Ventura .....	136.5	136.0	139.9	2.3	2.4	2.5	7.2	7.6	7.8	21.8	21.2	22.2
23 Riverside-San Bernardino-Ontario .....	410.5	424.1	432.2	2.3	2.5	2.5	29.0	30.5	30.9	64.5	67.4	67.5
24 Sacramento .....	383.0	396.4	405.7	.4	.4	.4	23.8	26.3	26.6	31.2	32.0	32.4
25 Salinas-Seaside-Monterey .....	85.7	84.9	86.6	.6	.6	.6	3.7	3.6	3.5	10.0	9.7	10.0
26 San Diego .....	613.2	627.4	638.7	.7	.7	.7	40.7	41.6	41.6	90.8	98.9	99.6
27 San Francisco-Oakland .....	1,506.3	1,534.3	1,543.6	2.0	2.0	2.0	72.8	73.7	73.7	207.6	207.6	208.1
28 San Jose .....	603.7	634.4	637.5	.1	.1	.1	25.5	25.9	26.1	211.2	229.3	231.0
29 Santa Barbara-Santa Maria-Lompoc .....	111.8	111.5	115.4	1.1	1.1	1.1	4.9	5.2	5.2	15.0	15.2	15.4
30 Santa Rosa .....	83.8	86.0	87.8	.4	.5	.5	5.7	5.8	5.7	13.3	14.4	14.9
31 Stockton .....	121.1	123.9	126.5	.1	.1	.1	6.1	6.6	6.6	25.3	26.4	26.2
32 Vallejo-Fairfield-Napa .....	96.7	97.6	98.0	.3	.3	.3	5.2	5.3	5.3	10.9	11.4	11.2
33 COLORADO .....	1,156.2	1,193.6	1,197.7	28.3	31.8	31.8	79.0	83.1	82.5	168.6	182.5	182.2
34 Denver-Boulder .....	731.6	757.7	764.4	15.6	17.9	17.8	47.4	52.4	52.3	116.6	123.6	123.8
35 CONNECTICUT .....	1,372.8	1,389.5	1,409.8	(2)	(2)	(2)	53.3	54.8	54.0	423.6	423.4	429.4
36 Bridgeport .....	160.9	166.0	166.6	(2)	(2)	(2)	5.9	6.7	6.6	63.7	66.5	66.7
37 Hartford .....	376.0	380.3	388.0	(2)	(2)	(2)	13.5	14.1	14.0	89.5	91.7	93.7
38 New Britain .....	61.4	58.5	60.2	(2)	(2)	(2)	2.4	2.4	2.4	29.1	26.9	27.5
39 New Haven-West Haven .....	191.3	188.3	192.0	(2)	(2)	(2)	6.6	7.0	6.8	45.5	43.9	43.7
40 Stamford .....	103.4	107.6	107.6	(2)	(2)	(2)	5.1	5.4	5.2	29.8	30.9	30.8
41 Waterbury .....	88.3	90.2	90.9	(2)	(2)	(2)	3.5	3.8	3.8	32.9	33.4	33.2
42 DELAWARE .....	252.9	246.8	249.5	(1)	(1)	(1)	17.0	15.5	15.0	71.2	66.9	69.5
43 Wilmington .....	218.3	213.1	217.4	(1)	(1)	(1)	16.0	14.4	14.1	65.1	61.1	64.2
44 DISTRICT OF COLUMBIA .....	590.2	611.7	596.4	(1)	(1)	(1)	15.5	15.3	15.2	15.3	15.3	15.3
45 Washington SMSA .....	1,460.5	1,496.7	1,486.1	(1)	(1)	(1)	83.8	81.7	80.9	51.8	53.9	53.9
46 FLORIDA .....	3,129.4	3,240.1	3,255.1	9.5	9.8	9.6	218.5	234.1	234.4	423.9	445.0	450.6
47 Daytona Beach .....	69.8	73.4	72.0	(1)	(1)	(1)	4.2	4.7	4.7	7.3	8.0	7.9
48 Fort Lauderdale-Hollywood .....	284.2	295.0	295.9	(1)	(1)	(1)	23.1	25.0	25.1	35.9	38.7	39.0
49 Gainesville .....	59.3	60.1	60.3	(1)	(1)	(1)	3.3	3.5	3.7	3.9	3.9	3.8
50 Jacksonville .....	277.8	281.5	287.1	(1)	(1)	(1)	16.0	15.9	15.9	31.8	32.9	32.8
51 Miami .....	644.9	662.9	664.3	(1)	(1)	(1)	33.7	35.9	36.7	95.5	96.9	97.2
52 Orlando .....	249.3	257.1	261.2	(1)	(1)	(1)	16.2	17.7	18.8	31.8	34.3	34.7
53 Pensacola .....	93.8	95.4	94.9	(1)	(1)	(1)	6.5	6.7	6.8	13.2	13.2	13.1
54 Sarasota .....	59.0	61.8	62.0	(1)	(1)	(1)	6.7	6.3	6.4	6.1	6.7	6.7
55 Tallahassee .....	65.2	67.4	67.5	(1)	(1)	(1)	3.3	3.5	3.4	2.5	2.4	2.4
56 Tampa-St. Petersburg .....	475.1	479.1	483.9	(1)	(1)	(1)	31.8	32.5	32.4	67.5	68.4	69.4
57 West Palm Beach-Boca Raton .....	170.4	179.7	180.0	(1)	(1)	(1)	15.7	16.6	16.9	23.3	26.1	26.5
58 GEORGIA .....	2,002.0	2,015.6	2,022.1	7.7	7.9	7.8	100.6	95.8	95.3	516.5	515.5	521.1
59 Albany .....	41.9	43.7	43.7	(1)	(1)	(1)	3.4	4.0	3.6	10.3	11.4	11.5
60 Atlanta .....	855.5	854.9	866.7	(1)	(1)	(1)	39.7	38.8	37.7	137.5	132.6	138.7
61 Augusta .....	120.2	120.7	121.3	(1)	(1)	(1)	7.4	6.8	6.8	36.0	36.4	36.4
62 Columbus .....	80.6	82.4	82.1	(1)	(1)	(1)	5.3	4.9	4.6	20.2	20.9	20.7
63 Macon .....	95.8	94.9	94.5	(1)	(1)	(1)	4.8	4.4	4.3	15.9	15.0	14.8

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			
SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	
71.2	72.1	71.2	273.9	275.6	276.6	58.3	59.2	58.9	195.0	199.8	201.0	288.0	285.6	293.0	1
28.4	29.0	28.9	84.8	87.8	88.0	22.8	23.3	23.2	62.8	65.2	65.3	52.2	50.3	52.8	2
2.7	2.7	2.7	22.2	22.9	23.0	3.7	3.5	3.5	17.6	18.2	18.2	33.5	33.0	33.9	3
11.1	11.0	10.4	36.8	36.3	36.2	7.0	7.3	7.2	26.8	27.1	26.3	23.9	23.3	23.3	4
4.9	5.1	5.0	24.5	24.4	24.2	6.0	6.1	6.1	18.6	18.9	19.1	27.1	28.6	28.4	5
1.8	1.7	1.6	9.6	9.3	9.4	1.6	1.7	1.7	6.1	5.8	5.9	16.7	16.4	16.9	6
17.5	17.9	(*)	30.1	29.8	(*)	8.0	7.8	(*)	29.0	30.7	(*)	54.3	52.5	(*)	7
45.4	48.2	46.7	215.1	226.3	229.7	50.3	53.0	53.2	173.1	184.4	184.6	193.3	177.4	194.8	8
27.3	28.8	27.3	143.3	151.5	153.7	38.6	40.3	40.4	108.7	115.5	116.3	96.0	88.9	96.4	9
8.2	8.7	8.6	36.7	37.4	38.0	7.1	7.7	7.8	33.5	34.8	35.4	41.7	38.6	42.4	10
42.6	44.1	44.0	162.4	165.3	165.6	30.9	32.3	32.1	106.5	113.4	113.2	136.3	126.4	135.9	11
3.3	3.4	3.4	14.7	15.1	15.1	2.2	2.3	2.4	8.3	8.8	8.9	12.2	10.7	12.2	12
3.3	3.5	3.4	14.6	14.7	14.7	2.4	2.6	2.6	11.1	11.2	11.3	7.6	5.9	7.6	13
12.4	12.8	12.4	40.6	41.4	42.0	12.0	12.3	12.3	31.7	34.7	34.4	35.7	35.6	36.0	14
3.6	3.8	3.9	6.2	6.0	6.0	1.2	1.2	1.3	4.7	5.0	4.9	7.2	6.0	7.1	15
523.6	539.5	541.4	2,181.1	2,276.5	2,296.4	561.0	590.0	592.2	1,591.3	2,120.8	2,128.5	1,691.6	1,637.9	1,675.5	16
24.5	26.4	25.9	186.4	201.0	201.5	47.5	53.3	53.2	153.8	166.6	164.9	92.4	89.3	95.0	17
7.4	7.6	7.6	31.3	32.1	32.8	4.5	4.6	4.6	20.4	21.4	21.3	30.8	31.8	31.1	18
10.3	10.7	10.7	48.9	51.1	51.8	9.6	10.3	10.3	33.5	34.8	35.1	38.2	36.9	39.4	19
195.7	203.2	206.1	803.5	827.2	833.5	214.3	219.3	219.6	772.6	802.8	810.7	461.8	453.6	455.6	20
4.0	3.9	4.0	21.1	22.3	22.8	2.9	3.1	3.2	15.8	16.5	16.5	15.4	14.8	15.4	21
5.9	6.1	6.1	33.2	34.1	34.3	5.9	6.1	6.2	25.5	27.4	27.4	34.7	31.1	33.4	22
21.9	23.1	23.4	99.9	104.9	105.9	17.0	17.8	17.8	83.1	86.4	87.7	92.8	91.5	96.5	23
21.0	22.0	22.2	87.2	93.2	95.0	19.0	20.7	20.8	68.3	74.9	75.1	132.1	126.9	133.2	24
5.0	4.9	4.9	22.2	22.5	22.6	3.9	4.1	4.1	18.5	18.9	18.9	21.8	20.6	22.0	25
26.7	27.5	27.2	144.2	149.5	150.9	33.6	35.5	35.7	140.8	145.5	143.1	135.7	128.2	139.9	26
128.2	126.6	127.2	348.1	361.0	366.1	133.4	140.0	139.4	328.1	339.7	344.3	286.1	283.7	282.8	27
20.1	21.1	21.2	115.3	119.6	121.4	23.8	25.6	25.6	129.3	137.3	135.7	78.4	75.5	75.4	28
4.3	4.4	4.5	29.7	30.3	30.4	4.8	4.9	4.9	29.5	30.4	30.9	22.5	20.0	23.0	29
4.2	4.3	4.3	20.4	21.3	21.3	5.2	5.3	5.3	16.2	16.6	16.5	18.4	17.8	19.3	30
8.4	8.4	8.8	27.1	28.0	28.4	4.8	5.0	5.0	22.8	23.8	24.3	26.5	25.6	27.1	31
4.4	4.4	4.4	19.9	20.8	20.8	3.3	3.5	3.5	16.8	18.0	17.4	35.9	33.9	35.1	32
70.6	75.4	75.3	290.4	294.5	294.9	68.5	72.6	72.5	238.6	245.8	242.1	212.1	207.8	216.4	33
49.0	52.7	53.0	183.9	185.8	186.7	48.6	51.4	51.6	152.1	158.9	157.2	118.4	114.9	122.1	34
59.4	58.8	61.8	289.1	295.9	301.2	96.6	100.6	100.3	269.1	280.9	281.5	181.7	175.1	181.7	35
6.0	6.2	6.2	34.0	33.0	33.5	6.7	6.9	6.9	30.4	31.5	31.4	14.3	15.2	15.4	36
14.9	14.4	15.5	78.9	79.2	80.7	55.1	57.5	57.1	71.7	74.3	74.6	52.4	49.1	52.4	37
1.5	1.5	1.5	10.4	10.5	10.4	1.6	1.7	1.7	9.5	9.7	9.8	6.9	5.8	7.0	38
15.6	14.9	15.6	40.3	40.4	41.1	10.4	10.7	10.4	46.6	46.8	47.6	26.2	24.7	26.9	39
3.7	3.8	3.8	24.0	24.5	24.4	7.2	7.5	7.5	24.2	26.2	26.0	9.4	9.4	9.8	40
3.1	2.9	3.1	15.7	15.9	16.2	3.2	3.3	3.3	18.6	20.3	20.2	11.3	10.6	11.2	41
12.9	12.9	13.0	55.8	53.1	53.0	11.4	11.7	11.5	43.3	44.8	43.8	41.4	42.0	43.7	42
12.3	12.4	12.3	44.4	42.5	42.7	10.2	10.4	10.2	37.6	39.7	39.0	32.7	32.7	34.9	43
25.7	26.3	26.3	65.6	66.1	66.3	33.9	34.2	34.3	160.5	159.5	164.1	273.7	295.0	274.9	44
64.8	67.3	67.4	282.7	282.5	284.4	85.6	89.4	89.1	365.5	374.1	378.8	526.3	547.8	531.6	45
191.7	206.5	206.2	801.6	812.3	812.4	221.3	241.6	240.4	666.2	703.3	699.5	596.7	587.5	602.0	46
2.7	2.9	2.9	19.7	20.0	19.4	4.1	4.3	4.3	18.2	20.0	18.6	13.6	13.5	14.2	47
14.1	14.5	14.5	79.7	80.4	80.8	24.5	25.3	25.1	65.3	71.2	68.1	41.6	39.9	43.3	48
1.5	1.5	1.5	12.5	11.6	11.7	2.6	2.7	2.7	7.9	8.3	8.5	27.6	28.6	28.4	49
22.5	23.5	23.7	72.9	73.2	73.7	28.0	28.5	28.4	54.3	56.0	56.4	52.3	51.5	56.2	50
63.3	69.7	70.0	164.3	161.8	163.3	46.4	49.8	49.5	152.8	156.4	157.7	88.9	92.4	89.9	51
11.7	13.1	13.1	68.5	69.4	68.1	16.7	18.3	18.3	64.7	68.3	67.4	39.7	36.0	40.8	52
4.8	5.5	5.1	22.3	22.4	22.1	4.1	4.4	4.3	17.5	18.4	17.8	25.4	24.8	25.7	53
2.6	2.8	2.7	17.2	17.0	17.3	4.8	4.9	4.8	13.8	14.8	14.6	7.8	9.3	9.5	54
2.2	2.3	2.3	13.5	14.4	14.6	3.1	3.2	3.1	9.1	11.6	11.8	31.5	30.0	29.9	55
27.7	28.1	28.3	131.3	130.9	132.6	35.0	37.7	37.4	106.1	109.6	110.5	75.7	71.9	73.3	56
7.5	8.0	8.0	42.9	44.0	44.0	13.2	14.4	14.2	38.7	38.6	39.0	29.1	32.0	31.4	57
128.2	129.4	130.4	460.0	463.2	464.1	102.5	106.6	106.3	300.2	306.4	304.5	386.2	390.8	392.7	58
1.8	2.0	2.0	9.4	9.1	9.4	1.7	1.8	1.7	5.0	5.2	5.3	10.2	10.2	10.2	59
77.7	79.2	79.7	238.6	235.9	238.0	59.0	62.6	62.6	157.2	159.5	159.7	145.8	146.4	150.3	60
4.2	4.4	4.4	24.9	24.4	24.9	4.3	4.4	4.4	15.0	15.5	15.6	28.4	28.8	28.9	61
3.4	3.5	3.4	17.3	17.3	17.1	5.2	5.3	5.3	10.9	10.9	10.7	18.5	19.6	20.3	62
4.5	4.7	4.6	19.8	19.4	19.3	5.7	5.9	5.9	14.9	15.1	15.0	30.2	30.4	30.6	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		
	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
<b>GEORGIA—Continued</b>												
1 Savannah	85.1	84.3	83.7	(1)	(1)	(1)	6.6	4.6	4.4	17.1	16.3	16.9
<b>HAWAII</b>												
2 Honolulu	375.4	398.8	389.5	(1)	(1)	(1)	21.6	23.1	23.3	22.7	25.9	23.6
3 Honolulu	309.7	329.0	321.4	(1)	(1)	(1)	17.8	18.3	18.5	16.6	19.6	17.5
<b>IDAHO</b>												
4 Boise City	344.9	341.0	343.3	4.2	4.5	4.5	21.8	21.1	20.2	60.5	60.4	59.7
5 Boise City	81.9	84.5	(*)	(1)	(1)	(*)	6.6	6.6	(*)	9.3	10.3	(*)
<b>ILLINOIS</b>												
6 Chicago-Gary	4,797.4	4,904.3	4,888.9	28.2	29.1	29.1	192.3	191.1	189.6	1,240.9	1,239.1	1,240.5
7 Bloomington-Normal	49.6	47.4	50.0	(2)	(2)	(2)	1.8	1.5	1.5	7.1	7.3	7.4
8 Champaign-Urbana-Rantoul	68.2	67.8	71.3	(2)	(2)	(2)	3.1	3.3	3.2	7.7	8.0	8.0
9 Chicago SMSA	3,427.5	3,520.9	(*)	4.9	5.1	(*)	152.7	156.3	(*)	945.5	946.6	(*)
10 Chicago SMSA	3,165.9	3,257.6	3,236.7	4.8	5.0	5.0	135.1	137.7	137.3	842.2	842.9	841.6
11 Davenport-Rock Island-Moline	159.3	164.2	163.0	(2)	(2)	(2)	7.8	7.6	7.5	47.5	51.3	50.2
12 Decatur	53.7	54.5	55.3	(2)	(2)	(2)	3.4	3.5	3.5	19.3	18.9	18.7
13 Kankakee	33.0	33.7	33.2	(2)	(2)	(2)	1.2	1.2	1.2	9.3	9.5	9.4
14 Peoria	151.1	153.4	152.5	(2)	(2)	(2)	9.3	9.7	9.6	51.9	51.3	51.2
15 Rockford	121.5	123.1	123.4	(2)	(2)	(2)	3.9	3.6	3.5	55.7	57.1	56.7
16 Springfield	82.7	89.1	81.8	(2)	(2)	(2)	4.1	4.3	4.2	8.0	7.7	7.7
<b>INDIANA</b>												
17 Anderson	2,229.5	2,252.8	2,261.3	10.4	10.3	10.2	110.4	121.9	122.1	751.5	735.2	738.3
18 Evansville	53.9	51.2	52.2	(1)	(1)	(1)	1.2	1.3	1.2	26.3	23.6	24.8
19 Fort Wayne	125.7	126.1	125.9	2.6	2.6	2.6	8.4	8.1	8.4	38.0	37.7	37.4
20 Gary-Hammond-East Chicago	176.4	180.1	179.6	(1)	(1)	(1)	7.8	8.6	8.1	62.5	62.1	61.0
21 Indianapolis	261.6	259.2	262.3	(1)	(1)	(1)	17.6	18.6	18.5	103.3	104.4	102.3
22 Lafayette-West Lafayette	516.3	519.5	521.5	(1)	(1)	(1)	19.5	20.8	20.7	131.3	126.4	128.3
23 Muncie	58.8	54.6	59.8	(1)	(1)	(1)	2.1	2.3	2.3	12.8	12.5	12.5
24 South Bend	48.7	47.5	49.2	(1)	(1)	(1)	2.1	2.1	2.1	14.3	13.2	14.2
25 Terre Haute	112.7	111.9	113.9	(1)	(1)	(1)	5.2	4.9	5.0	34.6	34.4	34.2
26 Waterloo-Cedar Falls	64.9	63.7	65.3	1.5	1.4	1.4	2.5	3.1	3.1	17.9	16.8	16.9
<b>IOWA</b>												
27 Cedar Rapids	1,118.3	1,120.1	1,143.6	2.5	2.5	2.4	63.9	66.8	64.8	252.6	258.0	259.4
28 Des Moines	83.6	84.7	86.4	(1)	(1)	(1)	4.4	4.4	4.4	29.4	29.3	30.1
29 Dubuque	179.1	180.2	181.6	(1)	(1)	(1)	9.2	8.9	8.9	25.3	26.1	26.7
30 Sioux City	44.0	45.3	45.9	(1)	(1)	(1)	2.1	2.4	2.3	16.8	17.6	17.7
31 Waterloo-Cedar Falls	51.6	50.2	50.9	(1)	(1)	(1)	4.2	3.9	3.9	9.8	9.1	9.2
32 Waterloo-Cedar Falls	65.3	67.7	69.9	(1)	(1)	(1)	3.0	3.3	3.3	22.1	24.1	24.4
<b>KANSAS</b>												
33 Lawrence	923.7	944.3	956.0	12.9	13.6	13.4	50.4	57.2	56.9	191.2	197.9	197.1
34 Topeka	26.7	25.7	27.2	(2)	(2)	(2)	1.3	1.5	1.5	4.2	4.7	4.7
35 Wichita	85.1	86.2	86.4	.3	.3	.2	4.1	4.1	3.9	11.1	11.7	11.3
36 Wichita	193.9	206.4	207.4	2.1	2.3	2.3	10.5	13.1	13.3	61.0	67.9	68.8
<b>KENTUCKY</b>												
37 Lexington-Fayette	1,260.5	1,268.8	1,280.1	59.2	59.0	58.4	78.0	78.2	75.7	291.5	287.3	286.9
38 Louisville	147.7	149.8	152.0	(1)	(1)	(1)	8.9	10.3	10.1	30.8	30.8	30.8
39 Owensboro	405.1	414.3	413.8	(1)	(1)	(1)	22.3	22.5	21.8	110.8	108.1	108.5
40 Owensboro	30.8	31.6	31.8	.9	.8	.7	2.5	2.8	2.8	7.3	6.7	7.1
<b>LOUISIANA</b>												
41 Alexandria	1,423.2	1,443.5	1,443.8	73.0	78.2	77.5	120.4	125.2	124.3	208.5	213.5	213.4
42 Baton Rouge	51.5	50.3	53.0	(1)	(1)	(1)	3.5	3.4	3.5	6.4	6.5	7.2
43 Lafayette	189.8	185.7	185.2	1.0	1.1	.9	25.7	25.7	25.3	24.8	25.1	25.3
44 Lake Charles	63.0	68.1	69.2	11.7	12.3	12.2	5.0	6.6	6.6	3.7	4.2	4.3
45 Monroe	58.5	59.1	59.3	1.8	1.9	1.9	6.1	5.6	5.7	12.1	12.7	12.7
46 New Orleans	49.3	49.8	50.1	.4	.3	.3	4.8	4.7	4.6	8.5	8.7	8.7
47 Shreveport	479.2	476.8	479.4	15.7	16.3	16.3	29.2	29.0	29.0	52.4	52.2	52.2
48 Shreveport	142.9	146.0	146.5	5.2	5.5	5.5	10.0	11.3	11.3	28.7	28.0	28.2
<b>MAINE</b>												
49 Lewiston-Auburn	414.9	422.9	418.1	(1)	(1)	(1)	21.6	20.0	19.8	112.9	116.7	115.2
50 Portland	34.8	35.5	35.8	(1)	(1)	(1)	1.4	1.5	1.4	12.5	12.1	12.0
51 Portland	87.6	89.3	88.6	(1)	(1)	(1)	4.2	4.2	4.1	16.1	17.9	17.4
<b>MARYLAND</b>												
52 Baltimore	1,609.5	1,610.1	1,626.2	(1)	(1)	(1)	111.7	109.8	108.3	245.7	240.8	249.3
53 Baltimore	884.0	879.5	890.8	(1)	(1)	(1)	54.4	55.1	54.3	166.1	155.2	167.2
<b>MASSACHUSETTS</b>												
54 Boston	2,552.6	2,581.5	2,596.4	(1)	(1)	(1)	83.2	85.2	83.5	659.3	663.3	665.9
55 Brockton	1,384.9	1,394.6	1,406.2	(1)	(1)	(1)	41.7	44.0	43.6	286.2	282.7	283.5
56 Fall River	55.7	57.1	57.7	(1)	(1)	(1)	2.0	2.0	2.0	12.6	13.1	13.0
57 Lawrence-Haverhill	57.4	58.2	57.3	(1)	(1)	(1)	1.9	2.1	1.9	21.2	20.9	20.8
58 Lowell	107.6	107.6	108.0	(1)	(1)	(1)	3.1	3.2	3.2	40.7	39.7	39.4
59 New Bedford	72.1	75.2	75.8	(1)	(1)	(1)	3.0	3.1	3.1	24.2	26.3	26.2
60 Springfield-Chicopee-Holyoke	66.7	67.4	67.8	(1)	(1)	(1)	1.9	1.8	1.8	26.6	26.4	26.5
61 Springfield-Chicopee-Holyoke	235.2	238.7	240.3	(1)	(1)	(1)	6.3	6.4	6.4	67.7	68.0	68.3

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			
SEPT 1978	AUG. 1979	SEPT 1979P	SEPT 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	
9.4	9.9	10.3	19.3	19.7	19.6	4.0	4.2	4.2	13.6	13.7	13.5	15.1	15.9	14.9	1
29.3	30.5	30.7	98.6	103.4	102.9	29.3	30.5	30.5	91.6	96.4	97.1	82.3	89.0	81.4	2
24.1	25.5	25.6	82.2	86.0	86.0	25.6	26.5	26.4	74.3	78.2	78.9	69.1	74.9	68.5	3
20.4	20.4	20.5	83.2	82.9	82.7	22.7	23.2	23.0	58.7	61.6	60.6	73.4	66.9	72.1	4
5.0	5.4	(*)	21.0	20.9	(*)	9.1	9.2	(*)	13.8	14.5	(*)	17.1	17.6	(*)	5
293.9	302.9	301.8	1,094.1	1,103.6	1,107.1	288.3	300.5	298.5	902.1	943.2	931.2	757.7	794.9	791.1	6
3.1	3.2	3.1	11.6	11.6	11.8	7.4	7.5	7.5	7.1	7.5	7.3	11.5	8.8	11.4	7
2.5	2.7	2.7	15.8	16.4	16.7	2.3	2.4	2.4	9.5	9.7	9.6	27.3	25.3	28.7	8
213.2	220.0	(*)	757.5	770.2	(*)	215.1	222.7	(*)	658.7	684.8	(*)	480.0	515.2	(*)	9
198.2	204.4	204.3	707.5	717.3	719.6	206.2	213.7	213.1	623.7	650.2	639.9	448.2	486.4	475.9	10
6.9	8.0	7.3	41.7	42.2	42.3	6.7	6.8	6.7	23.4	23.2	23.4	25.3	25.0	25.5	11
3.7	4.8	4.8	11.1	11.3	11.3	2.5	2.6	2.6	8.4	8.8	8.9	5.4	4.6	5.5	12
1.3	1.5	1.5	8.1	8.0	8.0	1.0	1.0	1.0	6.1	6.2	6.2	5.9	6.3	5.9	13
7.7	8.0	8.0	35.4	36.1	36.2	7.4	7.6	7.6	26.5	28.2	27.7	12.9	12.5	12.3	14
5.3	5.0	5.1	24.6	25.3	25.4	4.0	4.2	4.1	15.9	17.1	16.7	12.0	10.9	12.0	15
4.8	4.8	4.8	19.1	21.8	19.4	6.6	6.8	6.7	15.4	18.0	15.8	24.6	25.6	23.3	16
108.1	112.0	111.4	481.0	485.4	486.7	97.3	100.8	100.3	317.8	329.0	332.4	353.2	358.1	359.8	17
1.6	1.5	1.5	10.6	10.5	10.5	1.7	1.7	1.7	6.9	6.8	6.9	5.6	5.8	5.6	18
6.8	6.8	6.8	29.9	30.3	30.4	4.3	4.4	4.4	23.5	24.2	23.7	12.2	12.0	12.2	19
10.6	11.4	11.6	40.9	42.6	42.9	9.7	10.2	10.2	27.0	27.4	27.7	17.9	17.8	18.1	20
15.0	15.6	15.4	50.0	51.7	51.7	8.9	9.1	9.1	35.0	34.7	34.9	31.8	25.1	30.4	21
30.8	31.5	31.5	125.7	129.3	129.7	34.9	36.0	35.9	84.8	88.6	89.1	89.3	86.9	86.3	22
1.6	1.6	1.6	11.6	11.6	12.0	2.8	2.7	2.6	8.6	9.0	9.1	19.3	14.9	19.7	23
2.1	2.2	2.2	11.4	11.3	11.5	1.5	1.6	1.6	7.5	7.7	7.7	9.8	9.4	9.9	24
5.3	5.3	5.3	26.9	27.5	27.6	5.0	5.3	5.2	23.2	22.7	23.8	12.5	11.8	12.8	25
4.0	4.0	4.0	15.9	16.0	16.1	2.0	2.1	2.1	9.0	9.0	9.3	12.1	11.3	12.4	26
56.3	57.7	56.2	285.1	290.4	292.5	55.9	58.9	58.2	199.7	199.1	205.9	202.3	186.8	204.1	27
4.0	4.0	3.8	18.2	18.5	18.6	4.2	4.4	4.4	14.5	15.0	15.0	8.8	9.2	10.1	28
11.2	11.8	11.4	47.8	48.1	48.2	19.7	20.5	20.2	37.2	37.7	37.7	28.6	27.1	28.5	29
1.6	1.6	1.6	9.1	9.2	9.3	1.3	1.3	1.3	9.4	9.2	9.5	3.6	4.0	4.2	30
4.1	4.1	4.0	13.4	13.4	13.4	2.7	2.8	2.8	10.9	11.2	11.3	6.5	5.7	6.3	31
2.6	2.6	2.6	14.3	14.8	14.9	2.0	2.1	2.1	10.4	10.9	11.0	11.0	9.9	11.8	32
63.7	67.3	66.7	221.4	224.9	226.4	45.6	47.7	47.4	158.3	166.7	166.9	180.2	169.0	181.2	33
1.4	1.5	1.5	5.5	5.5	5.7	.8	.8	.8	3.2	3.3	3.5	10.3	8.4	9.5	34
7.5	7.5	7.5	19.3	19.4	19.4	5.7	6.0	5.9	16.2	16.8	16.9	21.1	20.4	21.3	35
10.1	10.9	10.8	43.1	44.3	44.4	9.1	9.3	9.3	36.1	37.4	37.3	22.0	21.2	21.2	36
68.8	70.3	69.9	270.1	281.4	287.5	49.0	50.8	50.3	206.1	211.9	211.2	237.8	229.9	240.2	37
6.8	7.6	7.7	33.1	33.8	34.1	6.8	7.1	7.0	26.2	27.2	28.6	35.1	33.0	33.7	38
24.6	25.7	25.7	94.2	100.6	100.7	22.2	23.3	23.0	73.5	75.7	76.9	57.5	58.4	57.3	39
2.2	2.3	2.3	7.3	7.6	7.4	1.1	1.2	1.2	5.3	6.0	5.9	4.2	4.2	4.4	40
110.1	111.3	110.7	338.0	342.1	343.3	69.9	72.7	72.5	241.7	246.5	245.2	261.6	254.0	256.9	41
2.5	2.6	2.6	11.1	11.0	11.0	3.1	3.3	3.3	9.7	9.8	10.2	15.2	13.7	15.2	42
9.6	9.7	9.7	39.7	38.9	38.9	10.6	11.0	10.9	27.6	26.6	26.8	50.8	47.6	47.4	43
4.4	4.8	4.7	16.5	17.5	17.5	2.0	2.2	2.2	11.5	12.6	12.2	8.2	7.9	9.5	44
3.2	3.0	2.9	12.8	13.0	13.1	2.5	2.6	2.6	9.3	9.1	9.4	10.7	11.2	11.0	45
2.3	2.5	2.5	12.9	12.6	12.6	3.3	3.4	3.4	7.4	8.2	8.2	9.7	9.4	9.8	46
48.0	49.0	49.0	119.0	118.5	118.7	28.4	29.8	29.8	106.9	105.4	107.8	79.6	76.6	76.6	47
9.9	10.5	10.4	34.6	35.0	35.1	6.5	6.8	6.8	24.1	24.6	24.7	23.9	24.3	24.5	48
18.5	19.3	19.1	93.7	95.7	92.6	16.0	16.5	16.2	72.3	78.7	74.3	79.9	76.0	80.9	49
1.1	1.1	1.2	7.9	8.8	8.8	1.4	1.6	1.6	7.1	7.2	7.4	3.4	3.2	3.4	50
5.3	5.5	5.4	24.3	23.1	22.8	6.8	7.3	7.2	18.4	19.4	19.3	12.5	11.9	12.4	51
87.1	86.1	87.1	385.1	381.8	385.8	87.3	90.8	90.7	324.0	335.2	338.4	368.6	365.6	368.6	52
60.2	61.2	61.7	193.6	188.3	190.8	52.6	54.3	54.5	171.3	176.6	175.8	185.8	184.8	186.5	53
117.9	116.3	118.6	564.7	567.3	575.5	149.9	154.9	153.8	570.6	597.2	597.4	407.0	397.3	401.7	54
70.3	70.1	72.5	305.6	303.1	309.7	102.1	106.6	105.8	372.8	385.8	389.0	206.2	202.3	202.1	55
4.1	4.4	4.5	14.9	14.9	15.0	2.1	2.3	2.2	8.7	9.4	9.3	11.3	11.0	11.7	56
1.9	2.0	2.0	12.3	12.3	12.3	2.6	2.6	2.6	9.7	10.5	10.2	7.8	7.8	7.5	57
4.2	4.0	4.3	22.6	23.0	23.2	3.7	3.8	3.7	16.0	16.8	16.4	17.3	17.1	17.8	58
3.5	3.7	3.9	15.6	15.7	16.0	2.1	2.3	2.3	11.0	11.6	11.6	12.7	12.5	12.7	59
2.5	2.5	2.6	12.7	12.6	12.6	2.0	2.0	2.0	8.9	9.3	9.3	12.1	12.8	13.0	60
9.7	10.0	10.2	48.9	51.1	51.2	12.6	13.3	13.2	45.5	46.4	47.5	44.5	43.5	43.5	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		
	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
<b>MASSACHUSETTS—Continued</b>												
1 Worcester .....	161.1	164.9	166.5	(1)	(1)	(1)	4.9	5.3	5.3	47.1	48.5	48.5
<b>MICHIGAN</b> .....	(*)	3,525.2	(*)	(*)	12.0	(*)	(*)	162.8	(*)	(*)	1,057.7	(*)
3 Ann Arbor .....	(*)	134.2	(*)	(*)	(1)	(*)	(*)	3.4	(*)	(*)	42.9	(*)
4 Battle Creek .....	(*)	67.5	(*)	(*)	(1)	(*)	(*)	2.4	(*)	(*)	23.7	(*)
5 Bay City .....	(*)	35.8	(*)	(*)	(1)	(*)	(*)	1.4	(*)	(*)	10.9	(*)
6 Detroit .....	(*)	1,754.0	(*)	(*)	1.2	(*)	(*)	69.9	(*)	(*)	539.5	(*)
7 Flint .....	(*)	190.5	(*)	(*)	(1)	(*)	(*)	7.0	(*)	(*)	73.8	(*)
8 Grand Rapids .....	(*)	259.7	(*)	(*)	(1)	(*)	(*)	15.3	(*)	(*)	90.2	(*)
9 Jackson .....	(*)	55.1	(*)	(*)	(1)	(*)	(*)	2.1	(*)	(*)	15.9	(*)
10 Kalamazoo-Portage .....	(*)	105.6	(*)	(*)	(1)	(*)	(*)	5.4	(*)	(*)	34.7	(*)
11 Lansing-East Lansing .....	(*)	180.3	(*)	(*)	(1)	(*)	(*)	7.7	(*)	(*)	35.2	(*)
12 Muskegon-Norton Shores-Musk. Hgts .....	(*)	63.1	(*)	(*)	(1)	(*)	(*)	3.1	(*)	(*)	23.1	(*)
13 Saginaw .....	(*)	90.9	(*)	(*)	(1)	(*)	(*)	3.3	(*)	(*)	34.6	(*)
<b>MINNESOTA</b> .....	1,714.6	1,772.3	1,778.1	18.0	18.6	18.0	93.2	103.7	103.1	372.2	386.5	386.7
14 Duluth-Superior .....	62.7	63.0	62.4	(1)	(1)	(1)	2.6	3.0	3.0	8.0	8.6	8.5
15 Minneapolis-St. Paul .....	1,021.6	1,062.5	1,068.1	(1)	(1)	(1)	49.1	57.1	57.7	237.3	245.1	245.4
<b>MISSISSIPPI</b> .....	828.0	819.8	834.1	9.0	9.4	9.5	48.0	49.5	49.5	238.1	232.9	233.3
17 Jackson .....	142.1	143.0	146.1	1.1	1.2	1.2	8.4	9.8	9.6	19.3	19.1	19.0
<b>MISSOURI</b> .....	1,955.4	1,955.6	1,972.8	8.1	8.9	8.8	89.9	95.6	92.8	458.4	446.7	445.8
19 Kansas City .....	626.2	625.9	629.8	.5	.6	.5	31.0	33.2	33.2	125.3	123.0	124.0
20 St. Joseph .....	36.2	35.5	35.9	(2)	(2)	(2)	2.3	2.1	2.1	9.2	9.2	8.9
21 St. Louis .....	978.8	973.8	976.9	2.5	2.6	2.6	45.7	48.5	47.5	256.4	245.1	246.5
22 Springfield .....	83.4	81.5	83.3	(2)	(2)	(2)	4.1	4.1	4.0	18.6	18.3	18.4
<b>MONTANA</b> .....	287.4	298.8	298.7	7.1	8.2	8.1	19.6	18.8	18.7	27.2	28.7	28.2
24 Billings .....	46.6	48.1	49.1	(1)	(1)	(1)	3.0	3.1	3.2	4.2	4.5	4.4
25 Great Falls .....	31.4	31.7	32.0	(1)	(1)	(1)	2.1	2.1	2.0	1.9	2.0	2.0
<b>NEBRASKA</b> .....	604.6	613.6	623.0	1.6	1.6	1.6	35.9	37.2	36.3	93.6	96.7	96.6
27 Lincoln .....	101.5	97.9	101.7	(2)	(2)	(2)	4.8	5.1	4.9	13.9	13.9	13.7
28 Omaha .....	255.5	258.6	263.0	(2)	(2)	(2)	13.2	12.9	12.7	35.1	36.9	36.7
<b>NEVADA</b> .....	366.1	381.7	382.7	3.8	4.1	4.2	28.1	28.1	27.5	18.2	19.6	19.7
30 Las Vegas .....	193.9	202.9	203.9	.2	.2	.3	14.0	14.4	14.1	6.4	7.1	7.1
31 Reno .....	110.1	114.1	114.4	.6	.7	.7	9.4	8.7	8.4	8.1	8.6	8.6
<b>NEW HAMPSHIRE</b> .....	373.9	394.5	391.2	.5	.5	.5	21.6	22.7	22.6	111.6	114.7	114.6
33 Manchester .....	73.3	74.0	75.0	(2)	(2)	(2)	3.9	4.0	4.0	19.2	18.7	18.7
34 Nashua .....	57.0	60.3	60.6	(2)	(2)	(2)	3.0	3.5	3.5	25.7	27.1	27.1
<b>NEW JERSEY</b> .....	3,006.9	3,070.9	3,040.0	2.5	2.7	2.6	118.7	121.5	120.9	804.5	793.0	804.5
36 Atlantic City .....	75.6	91.5	88.3	-	-	-	3.6	7.3	7.7	8.5	8.1	7.9
37 Camden .....	326.0	330.1	330.0	.1	.1	.1	15.0	15.2	14.7	70.7	70.9	71.8
38 Hackensack .....	391.8	389.7	390.5	(1)	(1)	(1)	14.6	14.4	14.5	113.5	112.7	111.8
39 Jersey City .....	236.0	236.4	232.5	-	-	-	4.2	4.0	4.1	74.3	68.9	71.3
40 Long Branch-Asbury Park .....	155.4	162.2	156.4	(1)	(1)	(1)	6.5	6.0	5.8	23.8	24.2	24.5
41 New Bruns.-Perth Amboy-Sayreville .....	277.4	285.2	284.8	(1)	(1)	(1)	11.7	10.7	11.0	91.5	90.1	91.0
42 Newark .....	925.7	939.0	931.4	.9	.9	.8	34.3	35.3	35.1	253.3	250.4	256.9
43 Paterson-Clifton-Passaic .....	191.1	197.0	192.3	(1)	(1)	(1)	6.8	7.5	6.6	68.5	70.0	70.6
44 Trenton .....	163.3	163.1	164.7	(1)	(1)	(1)	3.4	3.3	3.2	37.2	36.6	36.9
45 Vineland-Millville-Bridgeton .....	57.9	58.6	59.0	(1)	(1)	(1)	1.8	1.8	1.7	20.8	19.7	20.3
<b>NEW MEXICO</b> .....	454.3	470.7	473.0	25.0	27.4	27.2	37.3	38.7	38.1	34.0	35.2	35.3
47 Albuquerque .....	182.0	186.9	188.5	(1)	(1)	(1)	16.2	16.3	16.0	17.6	18.1	18.2
<b>NEW YORK</b> .....	7,075.0	7,151.5	7,125.6	6.8	7.1	7.0	221.5	219.2	217.1	1,500.2	1,497.9	1,507.9
49 Albany-Schenectady-Troy .....	330.8	334.8	331.8	(1)	(1)	(1)	11.9	11.9	11.7	62.2	59.1	58.8
50 Binghamton .....	117.5	118.7	119.0	(1)	(1)	(1)	5.3	5.7	5.6	42.3	42.8	42.5
51 Buffalo .....	512.4	510.6	517.0	(1)	(1)	(1)	21.1	21.2	20.9	145.2	140.3	144.9
52 Elmira .....	37.9	37.5	38.3	(1)	(1)	(1)	1.7	1.4	1.5	11.9	11.1	12.1
53 Monroe County .....	331.1	336.4	334.5	(1)	(1)	(1)	11.4	11.3	11.0	132.1	135.3	133.7
54 Nassau-Suffolk .....	876.5	886.3	881.0	(1)	(1)	(1)	37.7	34.4	34.4	159.7	161.5	161.3
55 New York-Northeastern New Jersey .....	6,549.9	6,626.1	(*)	3.0	3.0	(*)	196.6	193.2	(*)	1,388.6	1,378.3	(*)
56 New York and Nassau-Suffolk .....	4,527.9	4,577.2	4,548.9	1.7	1.7	1.7	125.0	122.8	122.4	787.6	784.6	789.3
57 New York SMSA .....	3,651.3	3,690.9	3,667.9	1.5	1.5	1.5	87.3	88.3	87.9	627.9	623.1	628.0
58 New York City .....	3,226.9	3,259.3	3,238.7	1.3	1.3	1.3	69.2	71.0	71.0	538.9	532.8	536.8
59 Poughkeepsie .....	92.9	96.1	95.8	(1)	(1)	(1)	3.4	3.3	3.4	30.9	32.5	32.2
60 Rochester .....	409.9	414.6	413.7	(1)	(1)	(1)	13.9	13.8	13.5	154.7	157.4	156.1

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			
SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	
7.0	6.7	7.2	34.8	35.5	36.4	8.5	8.9	8.9	31.2	31.9	32.8	27.6	28.1	27.4	1
(*)	154.6	(*)	(*)	751.9	(*)	(*)	151.8	(*)	(*)	640.9	(*)	(*)	593.5	(*)	2
(*)	3.8	(*)	(*)	20.5	(*)	(*)	3.7	(*)	(*)	21.6	(*)	(*)	38.3	(*)	3
(*)	2.4	(*)	(*)	11.7	(*)	(*)	3.8	(*)	(*)	10.9	(*)	(*)	12.6	(*)	4
(*)	1.8	(*)	(*)	8.5	(*)	(*)	1.2	(*)	(*)	6.2	(*)	(*)	5.8	(*)	5
(*)	85.5	(*)	(*)	365.2	(*)	(*)	87.6	(*)	(*)	348.5	(*)	(*)	256.7	(*)	6
(*)	6.7	(*)	(*)	41.3	(*)	(*)	6.0	(*)	(*)	28.9	(*)	(*)	26.8	(*)	7
(*)	10.2	(*)	(*)	58.7	(*)	(*)	9.8	(*)	(*)	45.3	(*)	(*)	30.2	(*)	8
(*)	5.3	(*)	(*)	11.3	(*)	(*)	1.5	(*)	(*)	10.5	(*)	(*)	8.5	(*)	9
(*)	3.7	(*)	(*)	21.6	(*)	(*)	4.1	(*)	(*)	20.0	(*)	(*)	16.1	(*)	10
(*)	5.1	(*)	(*)	35.7	(*)	(*)	9.3	(*)	(*)	26.8	(*)	(*)	60.5	(*)	11
(*)	2.9	(*)	(*)	12.2	(*)	(*)	1.8	(*)	(*)	9.6	(*)	(*)	10.4	(*)	12
(*)	4.6	(*)	(*)	18.3	(*)	(*)	3.9	(*)	(*)	13.7	(*)	(*)	12.5	(*)	13
95.2	100.3	102.9	433.5	441.0	443.2	88.1	92.1	91.5	337.5	354.0	355.0	276.8	276.1	277.7	14
7.6	6.5	6.4	17.2	17.0	17.3	2.2	2.3	2.4	12.1	12.8	12.5	12.9	12.8	12.3	15
58.7	65.6	66.5	256.1	261.2	263.4	65.4	68.7	68.2	213.8	221.8	224.2	141.2	143.0	142.8	16
38.5	39.8	39.9	161.6	164.5	164.4	31.8	32.3	32.2	115.2	116.5	119.7	185.7	174.9	185.6	17
8.9	8.9	8.9	34.8	36.2	36.3	10.9	11.0	10.9	27.3	26.4	28.0	31.3	30.4	32.3	18
135.0	138.2	137.9	468.1	475.0	474.4	103.5	106.3	105.2	355.8	366.2	367.1	336.6	318.7	340.8	19
52.8	53.8	53.4	158.8	155.2	156.2	41.7	42.7	42.6	124.1	129.1	128.5	92.0	88.3	91.4	20
2.1	2.1	2.1	8.8	8.9	8.9	1.8	1.9	1.8	6.2	6.3	6.3	5.8	5.0	5.8	21
68.6	71.9	72.2	219.8	218.4	217.5	53.2	55.1	54.5	194.6	198.9	198.0	138.0	133.3	138.1	22
6.3	6.5	6.5	23.6	23.5	23.6	3.3	3.4	3.3	16.0	16.2	16.2	11.5	9.5	11.3	23
22.9	24.2	24.3	75.0	79.4	79.5	12.4	14.3	14.2	54.9	55.2	55.2	68.4	69.9	70.4	24
4.4	4.4	4.6	15.6	16.5	16.6	2.1	2.3	2.3	9.5	9.9	10.1	7.8	7.4	7.9	25
2.0	2.2	2.3	10.5	10.7	10.8	2.0	2.1	2.1	6.7	6.6	6.6	6.2	6.0	6.2	26
45.1	47.4	47.4	155.8	158.5	159.8	39.3	40.8	40.4	109.9	110.7	113.5	123.4	120.7	127.4	27
6.9	7.4	7.4	22.1	22.1	23.2	6.9	6.9	6.9	17.1	15.9	16.7	29.8	26.6	28.9	28
23.3	24.5	24.5	67.0	68.4	68.8	23.0	23.9	23.7	54.4	55.1	56.6	39.5	36.9	40.0	29
22.1	23.7	23.7	73.2	77.1	77.6	14.8	15.8	15.7	154.2	160.5	159.6	51.7	52.8	54.7	30
12.5	13.3	13.2	40.9	43.8	44.2	7.9	8.5	8.5	88.6	91.1	91.4	23.4	24.5	25.1	31
7.2	7.8	7.7	22.3	23.0	23.2	5.5	5.9	5.8	42.7	45.0	44.4	14.3	14.4	15.6	32
13.6	13.4	13.8	84.7	91.7	90.6	17.8	19.1	19.0	69.2	76.6	73.6	54.9	55.8	56.5	33
4.5	4.8	4.9	19.0	19.5	19.7	5.3	5.5	5.5	13.5	13.6	13.9	7.9	7.9	8.3	34
1.7	1.7	1.8	11.2	12.1	12.3	1.8	1.9	1.9	8.0	8.5	8.5	5.6	5.5	5.5	35
191.8	190.3	191.3	677.2	688.5	684.7	149.3	154.8	152.7	558.5	593.4	584.4	504.4	526.7	498.9	36
3.5	3.8	3.9	20.8	23.3	21.0	4.5	4.9	4.8	19.9	27.8	27.1	14.9	16.3	15.9	37
15.5	15.5	15.7	84.5	83.3	84.2	15.3	16.1	15.8	64.1	67.3	66.9	60.8	61.7	60.8	38
21.1	19.8	19.9	115.4	109.9	112.3	15.1	16.2	16.1	71.3	75.6	76.2	40.8	41.1	39.7	39
28.2	27.2	27.5	45.0	45.0	45.4	8.4	9.1	8.9	30.8	29.5	30.3	45.1	52.7	45.0	40
6.3	6.1	6.2	40.4	44.0	42.3	7.1	7.3	7.2	39.2	42.0	39.1	32.3	32.6	31.3	41
20.7	22.8	23.0	63.2	66.6	67.3	9.3	9.9	9.8	39.0	40.5	40.0	42.1	44.6	42.7	42
69.7	70.7	69.5	178.5	177.0	178.1	62.7	63.0	62.5	182.0	189.9	188.4	144.3	151.8	140.1	43
7.7	7.1	6.8	41.6	41.4	42.1	9.3	9.8	9.7	30.8	32.5	31.9	26.4	28.7	24.6	44
6.0	5.9	6.1	25.1	25.3	25.7	6.6	7.0	6.8	39.8	37.9	39.2	45.1	47.1	46.8	45
3.1	3.0	3.1	9.4	9.6	9.9	2.4	2.4	2.4	8.4	9.2	9.0	12.0	12.9	12.6	46
27.6	27.7	28.8	103.9	110.1	109.9	20.3	21.8	21.6	89.5	93.5	91.2	116.7	116.3	120.9	47
10.7	11.3	11.8	46.1	48.4	48.7	10.2	11.2	11.1	41.0	42.1	42.0	40.2	39.5	40.7	48
433.6	428.5	433.5	1,472.1	1,461.2	1,473.8	588.9	600.2	596.5	1,583.4	1,631.3	1,624.9	1,268.6	1,306.1	1,264.9	49
15.7	15.4	15.6	67.3	68.3	67.3	15.0	15.4	15.2	65.6	68.3	66.6	93.0	96.4	96.7	50
4.8	4.7	4.7	22.4	22.0	22.2	3.7	3.7	3.7	17.0	18.5	17.8	22.1	21.2	22.6	51
28.3	28.4	28.8	115.6	117.0	117.4	21.6	22.3	22.1	94.1	93.8	95.0	86.4	87.6	87.9	52
1.4	1.4	1.4	8.4	8.4	8.4	1.0	1.0	1.0	6.5	6.8	6.8	7.0	7.2	7.0	53
10.2	9.9	10.0	62.2	62.1	62.8	14.7	15.4	15.2	63.0	64.9	64.5	37.5	37.4	37.4	54
37.2	35.4	37.6	230.5	230.3	232.6	47.7	48.6	48.3	188.9	197.4	191.6	174.7	178.6	175.2	55
466.3	462.1	(*)	1,393.7	1,376.5	(*)	590.6	601.3	(*)	1,461.6	1,501.8	(*)	1,049.5	1,109.9	(*)	56
318.9	314.8	317.8	950.1	938.3	950.6	485.9	493.4	491.2	1,107.8	1,134.7	1,132.1	750.8	786.9	743.8	57
281.7	279.4	280.2	719.6	708.0	718.0	438.1	444.8	442.9	919.1	937.4	940.7	576.1	608.3	568.6	58
259.8	257.5	258.1	620.2	608.1	616.8	418.6	424.7	423.1	818.1	832.6	839.2	500.7	531.3	492.4	59
3.0	3.0	3.0	15.8	15.8	15.9	2.5	2.6	2.6	16.5	16.8	16.7	20.7	22.0	22.0	60
13.2	12.9	13.0	79.6	79.3	80.2	16.3	17.2	16.9	74.8	76.9	76.3	57.6	57.0	57.8	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		
	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
<b>NEW YORK—Continued</b>												
1 Rockland County <sup>9</sup> .....	78.9	79.5	79.1	(1)	(1)	(1)	2.8	2.3	2.3	15.9	15.6	15.7
2 Syracuse .....	257.2	257.5	260.1	(1)	(1)	(1)	11.3	11.4	11.6	60.8	61.0	60.4
3 Utica-Rome .....	116.4	118.4	118.0	(1)	(1)	(1)	3.7	4.3	4.0	32.2	32.1	32.3
4 Westchester County <sup>9</sup> .....	333.1	339.8	337.9	(1)	(1)	(1)	14.4	14.2	13.8	71.8	73.6	74.3
5 <b>NORTH CAROLINA</b> .....	2,292.8	2,321.7	2,361.6	4.8	4.8	4.8	115.1	127.2	126.1	809.8	812.9	811.2
6 Asheville .....	68.8	70.4	69.8	(1)	(1)	(1)	3.7	3.4	3.3	21.7	21.5	21.5
7 Charlotte-Gastonia .....	310.3	311.0	315.7	(1)	(1)	(1)	16.1	16.4	16.1	86.5	87.9	87.8
8 Greensboro—Winston-Salem—High Pt. .....	375.1	375.8	381.7	(1)	(1)	(1)	17.2	16.1	15.6	145.4	148.8	148.4
9 Raleigh-Durham .....	248.9	250.5	257.9	(1)	(1)	(1)	12.7	12.9	12.8	39.4	42.4	42.0
10 <b>NORTH DAKOTA</b> .....	239.5	248.8	249.9	5.1	6.2	6.2	22.0	24.9	24.4	16.1	17.1	16.6
11 Fargo-Moorhead .....	61.3	62.3	63.6	(2)	(2)	(2)	5.1	5.6	5.5	5.3	5.4	5.3
12 <b>OHIO</b> .....	4,438.2	4,471.1	4,529.1	32.9	32.5	32.0	201.5	208.4	206.9	1,401.0	1,353.9	1,385.3
13 Akron .....	267.1	267.2	272.2	.4	.4	.4	10.0	10.2	10.2	85.7	80.6	83.4
14 Canton .....	156.9	163.1	162.6	1.2	1.2	1.2	7.4	7.5	7.5	57.7	59.8	59.7
15 Cincinnati .....	606.9	618.5	628.6	.4	.4	.4	29.4	30.5	30.3	173.3	171.4	175.8
16 Cleveland .....	911.5	924.4	935.5	1.6	1.6	1.6	36.3	37.7	37.5	282.1	271.3	279.9
17 Columbus .....	497.2	510.1	514.3	.9	.9	.9	23.4	24.7	24.4	101.8	98.6	99.4
18 Dayton .....	359.5	357.8	365.0	.5	.5	.5	15.9	17.0	16.8	113.1	103.5	107.0
19 Toledo .....	303.0	306.6	309.5	.7	.6	.6	13.1	13.3	13.6	92.4	90.0	90.6
20 Youngstown-Warren .....	215.2	213.9	219.2	.5	.5	.5	9.3	9.8	9.8	81.1	76.4	79.3
21 <b>OKLAHOMA</b> .....	1,045.3	1,084.1	1,086.4	55.6	59.7	59.0	59.4	61.5	60.3	172.5	181.9	181.2
22 Oklahoma City .....	369.0	388.5	(*)	12.8	13.5	(*)	21.5	21.4	(*)	47.7	53.9	(*)
23 Tulsa .....	272.9	279.2	279.9	17.7	18.2	18.3	15.2	15.1	14.7	56.7	59.4	58.9
24 <b>OREGON</b> .....	1,026.7	1,058.3	(*)	2.2	2.3	(*)	53.8	60.3	(*)	227.5	241.0	(*)
25 Eugene-Springfield .....	105.0	104.7	(*)	(1)	(1)	(*)	6.1	5.9	(*)	22.1	22.7	(*)
26 Jackson County .....	-	-	-	-	-	-	-	-	-	8.2	8.2	-
27 Portland .....	532.9	545.7	(*)	(1)	(1)	(*)	28.8	28.9	(*)	110.2	118.1	(*)
28 Salem .....	90.8	94.7	(*)	(1)	(1)	(*)	5.0	5.3	(*)	18.8	20.5	(*)
29 <b>PENNSYLVANIA</b> .....	4,708.6	4,688.1	4,691.5	54.1	51.9	52.5	216.3	205.8	204.5	1,375.7	1,367.8	1,375.9
30 Allentown-Bethlehem-Easton .....	260.3	260.5	259.6	(1)	(1)	(1)	10.2	8.8	8.9	109.9	110.7	110.5
31 Altoona .....	52.2	52.4	52.6	(1)	(1)	(1)	2.4	2.1	2.1	12.9	13.1	13.2
32 Delaware Valley <sup>10</sup> .....	1,550.9	1,550.7	1,551.8	(1)	(1)	(1)	59.9	59.8	61.1	379.3	381.2	383.8
33 Erie .....	115.5	117.4	116.5	(1)	(1)	(1)	4.7	3.8	3.7	43.5	45.2	45.4
34 Harrisburg .....	217.2	216.8	214.3	(1)	(1)	(1)	10.8	8.6	8.7	42.5	44.1	43.0
35 Johnstown .....	89.2	90.2	89.9	9.8	8.9	8.8	3.3	3.2	3.2	20.9	20.8	20.0
36 Lancaster .....	148.1	149.7	149.1	(1)	(1)	(1)	8.6	8.7	8.5	59.5	60.3	59.5
37 Northeast Pennsylvania .....	242.2	240.4	236.9	1.2	1.2	1.2	13.5	13.1	12.7	73.1	70.1	69.6
38 Philadelphia SMSA .....	1,876.8	1,880.8	1,883.9	(1)	(1)	(1)	75.0	75.0	75.9	450.0	452.1	455.7
39 Philadelphia City <sup>11</sup> .....	800.1	795.3	792.5	(1)	(1)	(1)	19.5	18.8	19.1	150.9	146.3	147.4
40 Pittsburgh .....	946.3	937.6	945.2	12.1	11.0	11.0	54.3	51.8	51.0	252.5	248.4	255.3
41 Reading .....	136.8	138.3	140.5	(1)	(1)	(1)	5.6	5.7	5.4	53.3	53.6	53.8
42 Scranton <sup>12</sup> .....	87.1	86.2	85.5	(1)	(1)	(1)	2.4	2.3	2.3	28.6	28.1	27.8
43 Wilkes-Barre—Hazleton <sup>13</sup> .....	126.1	124.1	122.0	1.1	1.1	1.1	9.7	9.1	8.9	40.2	37.3	37.2
44 Williamsport .....	50.2	49.8	49.9	(1)	(1)	(1)	2.1	2.3	2.2	18.6	18.0	17.9
45 York .....	152.9	152.3	153.4	(1)	(1)	(1)	7.6	7.1	7.0	65.0	65.4	65.3
46 <b>RHODE ISLAND</b> .....	409.9	407.2	406.8	(1)	(1)	(1)	15.7	15.2	14.8	139.0	136.2	135.8
47 Providence-Warwick-Pawtucket .....	420.9	417.4	417.0	(1)	(1)	(1)	15.9	15.4	15.1	155.4	152.4	151.8
48 <b>SOUTH CAROLINA</b> .....	1,145.0	1,165.8	1,168.0	1.9	2.0	2.0	69.6	67.8	66.0	393.0	394.1	392.1
49 Charleston-North Charleston .....	139.6	144.0	143.0	(1)	(1)	(1)	10.9	11.1	11.2	19.1	19.6	19.4
50 Columbia .....	171.6	171.6	174.6	(1)	(1)	(1)	8.5	8.0	7.9	26.1	26.9	26.8
51 Greenville-Spartanburg .....	256.9	256.6	259.8	(1)	(1)	(1)	15.8	16.5	16.6	105.0	104.7	104.4
52 <b>SOUTH DAKOTA</b> .....	236.4	240.1	236.1	2.6	3.0	2.7	14.2	15.2	14.6	24.3	26.6	26.1
53 Rapid City .....	29.2	29.6	29.6	(2)	(2)	(2)	3.2	2.8	2.8	2.7	2.6	2.6
54 Sioux Falls .....	53.1	52.9	53.0	(2)	(2)	(2)	4.1	4.1	3.8	7.0	7.7	7.7
55 <b>TENNESSEE</b> .....	1,729.2	1,722.0	1,735.8	10.4	11.1	10.3	92.0	97.8	97.1	528.0	517.0	517.2
56 Chattanooga .....	168.2	166.6	167.6	1.4	1.4	1.4	7.4	7.1	7.1	55.7	54.3	54.1
57 Knoxville .....	196.9	196.0	195.9	1.7	1.6	1.2	12.7	12.6	12.4	54.2	53.9	53.7
58 Memphis .....	353.0	353.0	355.6	.2	.2	.2	13.6	14.5	14.4	64.6	62.9	63.2
59 Nashville-Davidson .....	354.9	350.3	351.2	(1)	(1)	(1)	21.5	22.1	22.1	82.3	79.9	80.3

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			
SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	
3.4	3.4	3.4	16.9	17.4	17.5	2.3	2.5	2.4	16.9	17.6	16.6	20.7	20.7	21.2	1
14.6	15.0	15.0	58.6	59.1	59.5	15.2	15.6	15.5	50.3	48.4	51.2	46.5	47.0	47.0	2
4.0	4.0	4.1	22.1	22.2	22.3	5.5	5.6	5.5	19.9	20.8	20.9	29.0	29.5	28.9	3
17.8	17.8	18.1	79.3	79.2	80.4	16.7	17.2	17.0	81.9	84.8	82.7	51.2	53.0	51.7	4
109.2	114.9	116.5	448.0	466.4	469.2	86.0	90.7	89.6	318.7	340.6	334.7	401.1	364.2	409.5	5
3.6	3.5	3.6	14.1	14.3	14.2	2.3	2.4	2.3	12.1	14.2	13.0	11.3	11.1	11.9	6
29.0	29.9	30.0	75.8	77.9	78.3	19.7	20.2	19.9	46.5	46.8	46.6	36.7	31.9	37.0	7
20.8	21.1	21.5	75.6	77.1	77.7	17.1	17.7	17.6	54.5	55.4	55.9	44.5	39.6	45.0	8
12.4	13.5	13.6	48.3	49.0	49.7	14.5	15.1	14.9	50.9	54.0	54.7	70.7	63.6	70.2	9
15.3	16.4	16.5	66.6	70.0	68.9	10.7	11.2	11.2	45.6	47.5	47.7	58.1	55.5	58.4	10
4.1	4.4	4.4	18.9	19.6	19.4	3.7	3.9	4.0	12.5	13.1	13.3	11.7	10.3	11.7	11
224.7	238.6	240.1	973.7	995.6	1,000.0	194.4	205.0	203.8	790.4	831.8	835.3	619.6	605.3	625.6	12
13.9	15.1	15.2	60.0	62.6	62.7	9.2	9.7	9.6	47.7	51.1	50.2	40.1	37.6	40.6	13
6.8	7.5	7.6	34.4	35.8	35.9	5.6	6.0	5.9	27.5	28.8	29.1	16.3	16.3	15.6	14
33.9	36.0	36.3	139.2	143.2	144.4	30.8	32.4	32.2	118.2	129.2	129.3	81.7	75.4	79.9	15
47.8	49.6	50.2	212.3	217.8	219.1	46.3	47.1	46.7	181.4	191.4	191.6	103.8	107.8	108.9	16
25.2	27.2	27.4	120.4	124.9	126.5	34.7	37.4	37.1	98.1	102.7	103.9	92.8	93.7	94.6	17
13.1	14.1	14.2	75.7	78.3	79.0	12.8	13.3	13.3	66.2	69.6	70.3	62.2	61.6	64.0	18
20.7	21.7	21.8	68.7	71.0	70.9	10.1	10.6	10.6	56.4	59.6	59.5	41.1	39.8	42.0	19
9.9	10.5	10.6	46.6	48.6	48.6	6.8	6.9	7.0	36.4	37.4	38.1	24.6	23.7	25.3	20
61.8	64.2	62.7	250.5	257.0	259.1	51.0	53.9	53.5	174.4	186.5	186.0	220.1	219.4	224.6	21
21.9	22.8	(*)	90.0	95.9	(*)	23.1	24.5	(*)	62.8	68.0	(*)	89.2	88.5	(*)	22
20.6	21.3	21.3	67.2	67.4	67.3	13.6	14.4	14.2	52.9	55.0	55.2	29.0	28.4	30.0	23
58.4	60.7	(*)	253.3	261.2	(*)	65.1	68.7	(*)	175.7	178.3	(*)	190.7	185.8	(*)	24
5.2	5.5	(*)	26.0	25.6	(*)	5.3	5.3	(*)	18.7	19.0	(*)	21.6	20.7	(*)	25
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
34.8	35.8	(*)	137.7	137.8	(*)	41.1	43.8	(*)	101.8	103.8	(*)	78.5	77.5	(*)	27
3.2	3.4	(*)	18.5	18.7	(*)	5.3	5.5	(*)	14.1	13.7	(*)	25.9	27.6	(*)	28
267.4	266.4	271.0	974.0	955.6	956.9	228.0	239.6	237.1	893.0	910.9	919.2	700.1	690.1	674.4	29
13.7	14.2	14.1	49.6	49.2	49.3	8.3	8.7	8.6	38.8	40.0	39.6	29.8	28.9	28.6	30
8.2	7.7	7.6	11.9	12.3	12.6	1.3	1.3	1.3	8.5	8.9	8.8	7.0	7.0	7.0	31
84.3	82.7	84.2	328.6	320.4	325.1	104.4	108.0	106.7	364.3	361.4	364.8	230.1	237.2	226.1	32
5.2	5.1	5.2	23.1	24.5	24.5	4.5	4.4	4.4	19.8	19.7	19.5	14.7	14.7	13.8	33
16.0	16.2	15.9	44.1	43.8	43.1	11.9	11.9	12.0	36.4	36.8	36.4	55.5	55.4	55.2	34
5.4	5.1	5.6	16.7	17.1	17.0	3.5	3.8	3.7	14.9	15.6	15.5	14.7	15.7	16.1	35
6.5	6.7	6.6	33.4	34.2	33.9	5.2	5.4	5.5	20.6	20.9	21.1	14.3	13.5	14.0	36
13.4	13.4	13.5	52.8	51.3	51.4	9.3	9.7	9.5	41.7	42.4	41.5	37.2	39.2	37.5	37
99.8	98.2	100.0	413.1	403.7	409.1	119.6	124.1	122.6	428.7	428.9	431.7	290.6	298.8	288.9	38
56.3	56.8	56.7	153.0	148.7	150.7	68.3	70.1	70.0	204.5	199.9	204.6	147.6	154.7	144.0	39
57.7	58.0	58.3	210.0	214.0	213.5	43.9	45.2	44.6	197.4	194.1	196.6	118.4	115.1	114.9	40
6.5	6.4	6.6	26.7	27.7	27.7	5.8	6.1	6.0	22.2	23.3	23.4	16.7	15.5	17.6	41
4.6	4.6	4.7	19.6	19.1	19.3	3.3	3.4	3.4	17.0	16.6	16.4	11.6	12.1	11.6	42
6.8	6.9	6.8	28.0	26.7	26.6	5.1	5.3	5.3	17.5	17.7	17.6	17.7	20.0	18.5	43
2.5	2.5	2.5	10.6	10.4	10.5	1.9	2.0	2.0	7.5	7.9	7.8	7.0	6.7	7.0	44
7.2	6.7	6.8	31.6	31.4	31.6	4.0	4.3	4.1	19.4	19.7	20.2	18.1	17.7	18.4	45
13.5	13.5	13.7	82.2	80.5	81.4	20.1	20.6	20.6	78.2	79.2	79.9	61.2	62.0	60.6	46
13.4	13.5	13.6	82.7	80.8	81.8	20.4	20.8	20.8	75.0	75.8	76.5	58.1	58.7	57.4	47
50.2	52.1	52.2	217.1	226.5	225.7	44.6	47.2	46.6	149.9	161.2	160.0	218.7	214.9	223.4	48
8.6	8.7	9.0	30.7	31.1	31.2	6.0	6.2	6.2	21.7	23.2	23.4	42.6	44.1	42.6	49
8.7	9.3	9.2	38.0	38.3	38.4	13.0	13.8	13.6	25.3	25.7	25.7	52.0	49.6	53.0	50
10.2	10.2	10.2	49.8	49.9	50.0	8.8	8.8	8.8	33.8	34.7	35.4	33.5	31.8	34.4	51
13.5	13.3	13.5	64.8	63.8	61.6	11.1	11.9	11.8	49.7	51.7	49.4	56.2	54.6	56.4	52
1.9	1.9	1.9	8.4	9.5	9.1	1.4	1.5	1.4	6.2	6.1	6.0	5.4	5.2	5.8	53
4.9	4.9	4.8	15.6	15.1	15.1	3.3	3.1	3.1	11.8	12.0	11.9	6.4	6.0	6.6	54
83.8	84.0	83.8	372.9	367.4	370.1	73.1	76.0	75.3	266.8	273.9	274.5	302.2	294.8	307.5	55
6.7	6.9	6.8	30.5	30.2	30.0	9.5	9.8	9.8	26.0	26.1	26.1	31.0	30.8	32.3	56
7.7	7.9	7.9	42.0	41.5	41.4	7.9	8.2	8.2	30.5	30.7	30.7	40.2	39.6	40.4	57
25.7	26.5	26.5	94.7	94.2	93.9	19.0	19.2	19.2	68.3	70.7	70.8	66.9	64.8	67.4	58
19.0	19.6	19.5	80.6	80.9	80.8	21.9	22.7	22.5	66.0	64.3	64.3	63.6	60.8	61.7	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		
	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
1 TEXAS	5,315.3	5,508.7	5,556.7	185.0	199.6	198.2	388.1	413.8	406.9	966.1	997.9	1,000.5
2 Amarillo	72.0	72.9	74.1	(1)	(1)	(1)	5.0	5.5	5.5	8.8	9.7	9.8
3 Austin	217.2	226.6	227.9	(1)	(1)	(1)	13.1	14.8	14.6	26.6	27.9	27.8
4 Beaumont-Port Arthur-Orange	145.9	143.3	145.6	(1)	(1)	(1)	15.0	15.7	15.8	41.5	41.5	41.7
5 Corpus Christi	112.2	112.0	111.6	5.0	5.2	5.1	11.9	13.1	12.3	13.9	13.8	13.7
6 Dallas-Fort Worth	1,303.0	1,365.7	1,381.6	19.8	21.5	21.6	70.6	79.4	77.8	289.3	300.9	303.9
7 El Paso	151.5	155.3	154.6	(1)	(1)	(1)	8.8	7.8	7.7	31.1	31.5	30.8
8 Galveston-Texas City	68.4	67.8	67.9	(1)	(1)	(1)	4.9	4.8	4.9	12.0	12.0	12.0
9 Houston	1,277.0	1,321.4	1,324.0	61.3	63.3	63.1	139.4	140.7	140.6	210.9	217.4	217.9
10 Lubbock	88.7	87.0	90.0	(1)	(1)	(1)	5.2	5.9	5.7	13.3	12.4	12.5
11 San Antonio	366.8	369.8	371.2	1.9	1.9	1.9	23.8	25.3	25.1	46.7	47.3	47.0
12 Waco	66.3	67.5	68.9	(1)	(1)	(1)	3.7	3.4	3.3	16.1	17.2	17.3
13 Wichita Falls	49.8	50.0	50.7	2.7	2.6	2.6	2.5	2.9	2.8	9.1	9.4	9.5
14 UTAH	540.6	558.9	570.4	16.8	18.0	18.0	38.1	40.4	40.1	82.4	87.4	87.2
15 Salt Lake City-Ogden	382.6	396.7	403.1	7.2	7.7	7.6	26.1	27.7	27.6	55.5	58.5	58.8
16 VERMONT	194.1	196.9	199.6	.8	.8	.9	11.1	10.9	10.7	48.7	50.6	50.3
17 Burlington <sup>14</sup>	51.6	52.9	54.2	-	-	-	-	-	-	12.8	13.9	13.7
18 Springfield <sup>15</sup>	14.3	14.7	14.6	-	-	-	-	-	-	5.9	6.2	6.1
19 VIRGINIA	2,068.1	2,117.9	2,122.8	17.6	25.3	24.2	142.0	148.5	144.2	413.0	413.3	416.8
20 Bristol	27.6	28.0	28.0	(1)	(1)	(1)	1.6	1.7	1.6	9.9	9.7	9.9
21 Lynchburg	69.6	72.1	72.6	(1)	(1)	(1)	3.9	4.1	4.0	29.2	29.7	29.9
22 Newport News-Hampton	146.5	149.8	149.4	(1)	(1)	(1)	8.6	8.4	8.3	33.2	33.1	33.1
23 Norfolk-Virginia Beach-Portsmouth	281.9	282.9	284.9	(1)	(1)	(1)	20.3	20.4	20.1	29.9	29.8	30.4
24 Northern Virginia <sup>15</sup>	410.8	420.2	421.9	.3	.4	.4	29.3	30.2	29.8	15.5	16.4	16.4
25 Petersburg-Colonial Hgts.-Hopewell	47.0	47.8	47.4	(1)	(1)	(1)	2.6	2.7	2.5	11.9	11.5	11.3
26 Richmond	319.5	321.6	325.1	.4	.4	.4	19.9	19.3	18.7	54.4	55.2	55.4
27 Roanoke	102.3	104.8	104.8	.2	.1	.1	6.7	6.3	6.3	21.3	20.7	20.7
28 WASHINGTON	1,532.5	1,615.4	(*)	3.0	3.2	(*)	104.5	115.0	(*)	293.3	316.5	(*)
29 Seattle-Everett	715.1	768.5	(*)	(1)	(1)	(*)	45.7	53.1	(*)	152.1	169.5	(*)
30 Spokane	126.1	126.8	(*)	(1)	(1)	(*)	8.3	8.5	(*)	18.0	18.8	(*)
31 Tacoma	135.2	143.0	(*)	(1)	(1)	(*)	8.9	10.2	(*)	21.9	22.2	(*)
32 WEST VIRGINIA	628.8	628.5	640.8	65.8	68.7	68.0	43.7	41.7	42.8	127.2	121.8	124.4
33 Charleston	110.4	111.7	113.9	6.8	6.7	6.8	7.5	7.0	7.4	19.7	19.0	19.1
34 Huntington-Ashland	103.0	105.0	104.7	.6	1.0	1.0	6.6	7.1	7.1	29.5	29.2	29.1
35 Parkersburg-Marietta	57.0	57.7	57.6	.5	.5	.5	3.8	4.3	4.4	18.1	18.2	17.5
36 Wheeling	66.3	65.3	64.8	7.2	6.9	6.4	4.4	3.6	3.8	13.6	13.6	13.2
37 WISCONSIN	1,922.4	1,978.4	1,995.5	2.9	3.1	3.0	93.9	96.6	96.4	577.9	585.2	584.6
38 Appleton-Oshkosh	123.9	127.8	128.2	(1)	(1)	(1)	7.0	7.4	7.4	48.7	50.4	50.1
39 Eau Claire	44.5	44.3	44.9	(1)	(1)	(1)	1.9	1.8	1.8	9.0	8.6	8.1
40 Green Bay	76.4	78.1	77.7	(1)	(1)	(1)	3.9	3.9	3.9	22.0	22.6	22.1
41 Kenosha	43.7	45.1	45.5	(1)	(1)	(1)	1.5	1.5	1.5	18.6	19.4	19.3
42 La Crosse	41.8	40.0	40.7	(1)	(1)	(1)	1.8	2.1	2.1	10.5	9.0	8.9
43 Madison	161.7	163.4	165.1	(1)	(1)	(1)	8.4	8.7	8.6	19.8	19.2	17.5
44 Milwaukee	657.1	676.0	685.3	(1)	(1)	(1)	26.2	26.4	26.6	211.2	213.2	215.3
45 Racine	70.2	71.8	71.8	(1)	(1)	(1)	2.7	2.5	2.4	30.8	31.9	31.5
46 WYOMING	199.2	218.4	220.7	29.7	34.7	34.7	24.7	28.0	28.4	9.4	10.9	10.9
47 Casper	37.3	46.9	47.1	7.5	10.9	11.0	4.2	6.3	6.1	1.7	2.0	2.0
48 Cheyenne	26.2	27.9	28.3	(1)	(1)	(1)	2.2	3.0	3.0	1.5	1.5	1.5

<sup>1</sup> Combined with services.

<sup>2</sup> Combined with construction.

<sup>3</sup> Revised to 1979 benchmark; not strictly comparable with previously published data.

<sup>4</sup> Area included in Chicago-Gary Standard Consolidated Statistical area.

<sup>5</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

<sup>6</sup> Subarea of New York-Northeastern New Jersey.

<sup>7</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>8</sup> Area included in New York and Nassau-Suffolk combined SMSA's.

<sup>9</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>10</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

<sup>11</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

<sup>12</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

<sup>13</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

<sup>14</sup> Total includes data for industry divisions not shown separately.

<sup>15</sup> 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			
SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	
337.0	359.1	357.7	1,293.0	1,336.7	1,342.1	299.4	314.8	313.5	901.8	938.3	938.6	944.9	948.5	999.2	1
6.8	7.0	7.0	21.9	21.6	21.6	3.6	3.6	3.6	14.0	14.6	14.6	11.9	10.9	12.0	2
6.7	6.7	6.7	44.7	47.3	47.6	13.2	13.4	13.4	35.9	37.6	38.1	77.0	78.9	79.7	3
10.5	10.5	10.8	31.7	29.8	29.9	5.3	5.4	5.4	23.6	23.8	23.6	18.3	16.6	18.4	4
6.7	6.7	6.5	26.2	26.1	25.6	5.3	5.4	5.6	17.5	18.1	18.1	25.7	24.5	24.7	5
84.3	90.4	90.2	341.6	364.3	367.4	95.8	101.2	100.9	228.6	243.0	243.3	173.0	165.0	176.5	6
10.2	10.6	10.6	37.6	39.2	39.4	7.0	7.4	7.5	24.8	25.7	25.9	32.0	33.1	32.7	7
6.8	6.8	6.8	13.1	12.7	12.8	4.4	4.5	4.6	10.6	10.6	10.4	16.6	16.4	16.4	8
94.9	100.1	99.4	305.9	314.7	315.9	75.8	80.8	80.3	247.0	260.7	259.3	141.8	143.7	147.5	9
4.9	5.0	5.0	26.0	25.6	26.1	4.4	4.6	4.7	15.6	15.9	16.1	19.3	17.6	19.9	10
16.0	17.0	17.0	91.1	93.5	92.9	24.4	25.1	24.9	68.7	69.9	70.4	94.2	89.8	92.0	11
3.2	3.3	3.3	15.3	15.6	15.7	3.8	4.1	4.1	13.3	13.2	14.1	10.9	10.7	11.1	12
2.4	2.4	2.4	12.3	12.3	12.4	2.2	2.3	2.3	7.5	7.5	7.5	11.1	10.6	11.2	13
33.2	35.3	35.5	130.8	135.3	136.4	24.9	26.5	26.5	93.9	102.4	102.7	120.6	113.6	124.1	14
26.3	27.8	28.1	96.8	100.6	101.4	20.2	21.7	21.6	63.9	70.7	70.5	86.5	82.1	87.4	15
8.8	9.0	9.0	40.7	42.2	42.2	7.5	7.8	7.7	41.9	43.7	43.6	34.6	31.9	35.2	16
2.2	2.2	2.2	11.4	11.8	12.0	-	-	-	10.7	11.2	11.6	-	-	-	17
.7	.7	.7	2.1	2.3	2.3	-	-	-	2.6	2.8	2.6	-	-	-	18
104.0	113.7	113.2	436.8	444.4	444.6	98.9	103.7	102.9	368.8	376.7	375.2	487.0	492.3	501.7	19
1.0	1.0	1.0	6.2	6.4	6.3	.9	.9	1.0	3.3	3.4	3.5	4.7	4.9	4.7	20
2.5	2.7	2.7	11.4	11.9	11.9	3.1	3.5	3.5	9.5	10.5	10.7	10.0	9.7	9.9	21
5.0	5.1	5.1	28.7	28.0	28.0	4.9	5.1	5.1	27.3	29.6	28.1	38.8	40.4	41.7	22
17.2	18.1	17.9	68.5	70.7	70.2	14.6	14.8	14.7	52.1	51.8	51.3	79.3	77.3	80.3	23
27.4	29.0	28.9	98.1	98.8	98.9	25.4	26.8	26.7	99.9	104.7	103.7	114.9	113.9	117.1	24
1.4	1.6	1.6	8.8	8.8	8.7	1.3	1.3	1.3	5.8	6.1	6.1	15.2	15.8	15.9	25
19.2	20.0	20.1	73.5	71.6	71.8	25.2	26.4	26.4	55.8	58.1	57.5	71.1	70.6	74.8	26
6.7	10.1	10.0	25.7	26.0	25.8	5.8	5.9	5.9	19.3	19.1	19.4	16.6	16.6	16.6	27
88.4	95.5	(*)	381.0	395.8	(*)	86.9	93.1	(*)	287.7	306.1	(*)	287.7	290.2	(*)	28
49.0	52.3	(*)	176.4	186.3	(*)	50.7	53.3	(*)	134.3	144.4	(*)	106.9	109.6	(*)	29
7.9	7.9	(*)	35.3	36.9	(*)	7.9	8.1	(*)	28.5	28.1	(*)	20.2	18.5	(*)	30
6.6	7.0	(*)	33.7	34.6	(*)	6.8	7.2	(*)	30.2	29.5	(*)	27.1	32.3	(*)	31
39.4	43.9	43.8	126.5	131.0	132.6	20.5	21.3	21.3	89.7	90.0	91.3	115.9	110.0	116.5	32
9.5	9.8	9.8	25.5	26.8	27.8	4.8	5.0	4.9	18.6	19.3	19.8	18.0	18.3	18.4	33
9.2	9.6	9.6	22.7	23.3	23.3	3.7	3.7	3.7	14.2	14.4	14.3	16.5	16.7	16.6	34
2.6	2.6	2.6	12.1	12.2	12.2	1.9	1.9	1.9	8.5	8.2	8.6	9.7	9.9	10.0	35
3.8	3.8	3.7	14.9	15.1	15.2	2.4	2.5	2.5	12.7	12.6	12.6	7.2	7.3	7.4	36
90.1	88.3	91.8	437.8	467.0	469.0	86.6	92.3	91.5	342.5	367.6	364.9	290.7	278.3	294.2	37
4.1	4.1	4.2	25.7	26.3	26.8	4.8	5.2	5.2	19.4	20.4	20.2	14.2	14.1	14.4	38
2.6	2.6	2.7	11.8	12.7	12.8	1.4	1.5	1.4	9.0	9.7	9.6	8.8	7.5	8.5	39
5.4	5.4	5.5	19.2	20.4	20.4	2.7	2.8	2.8	13.4	13.4	13.6	9.8	9.5	9.4	40
1.9	1.7	1.8	8.2	8.6	8.6	.9	1.0	1.0	7.1	7.5	7.7	5.5	5.4	5.6	41
2.4	2.5	2.5	11.2	11.3	11.7	.9	1.0	1.0	8.7	9.2	9.2	6.1	5.1	5.4	42
5.8	5.9	6.1	35.5	36.5	37.2	11.7	13.1	13.1	27.8	29.4	29.6	52.9	50.7	53.1	43
33.4	33.4	34.5	147.7	155.3	156.3	35.6	37.0	36.6	132.1	139.9	142.1	71.0	70.8	73.9	44
2.4	2.4	2.5	12.9	13.1	13.3	2.2	2.3	2.3	10.8	11.1	11.1	8.4	8.6	8.7	45
15.0	17.3	17.5	45.7	51.6	50.5	6.6	7.3	7.3	28.2	33.1	31.4	39.9	35.5	40.0	46
2.6	2.8	2.8	10.5	13.3	13.5	1.4	1.5	1.5	5.0	5.7	5.7	4.4	4.4	4.5	47
3.6	3.8	3.8	6.8	8.2	8.1	1.5	1.5	1.5	4.0	3.7	3.8	6.6	6.2	6.6	48



# ESTABLISHMENT DATA HOURS AND EARNINGS

## C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979P	Oct. 1979P	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979P	Oct. 1979P
-	<b>TOTAL PRIVATE</b> .....	\$208.94	\$210.73	\$222.81	\$225.54	\$224.64	\$5.82	\$5.87	\$6.19	\$6.30	\$6.31
-	<b>MINING</b> .....	345.83	348.73	365.41	371.93	371.06	7.95	7.98	8.48	8.55	8.53
10	<b>METAL MINING</b> .....	357.81	358.62	383.64	393.05	-	8.56	8.60	9.38	9.61	-
101	Iron ores .....	373.05	371.60	413.34	408.66	-	8.84	8.89	9.68	9.80	-
102	Copper ores .....	362.75	367.69	411.40	419.89	-	8.72	8.86	9.68	9.95	-
11, 12	<b>COAL MINING</b> .....	392.62	396.73	413.60	420.02	-	9.84	9.82	10.34	10.32	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	393.81	397.94	414.80	421.25	-	9.87	9.85	10.37	10.35	-
13	<b>OIL AND GAS EXTRACTION</b> .....	326.24	327.41	344.51	351.53	-	7.17	7.18	7.69	7.76	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	345.74	337.00	358.07	370.24	-	8.22	8.14	8.67	8.90	-
138	Oil and gas field services .....	317.51	323.74	338.65	344.18	-	6.77	6.83	7.33	7.37	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	299.38	302.42	320.84	322.64	-	6.48	6.56	6.99	7.06	-
142	Crushed and broken stone .....	301.11	302.10	323.61	321.90	-	6.26	6.32	6.77	6.82	-
-	<b>CONSTRUCTION</b> .....	332.11	336.93	354.16	360.05	355.67	8.88	8.89	9.32	9.50	9.51
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	294.28	300.20	316.96	321.93	-	8.22	8.27	8.66	8.82	-
152	Residential building construction .....	277.89	284.40	301.54	306.49	-	7.85	7.90	8.33	8.49	-
153	Operative builders .....	259.15	259.55	277.49	279.70	-	7.10	7.25	7.38	7.58	-
154	Nonresidential building construction .....	318.56	323.54	340.77	344.65	-	8.80	8.84	9.21	9.34	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	346.08	351.12	370.09	373.27	-	8.40	8.36	8.77	8.93	-
161	Highway and street construction .....	340.20	348.83	376.07	381.93	-	7.93	7.91	8.47	8.70	-
162	Heavy construction, except highway .....	349.40	352.56	366.46	367.34	-	8.67	8.62	8.96	9.07	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	348.50	350.76	367.41	374.44	-	9.47	9.48	9.93	10.12	-
171	Plumbing, heating, air conditioning .....	369.19	369.39	382.66	390.40	-	9.69	9.67	10.07	10.22	-
172	Painting, paper hanging, decorating .....	314.35	313.90	322.37	327.36	-	8.83	8.79	9.03	9.30	-
173	Electrical work .....	401.57	402.63	428.12	430.11	-	10.54	10.54	11.12	11.23	-
174	Masonry, stonework, and plastering .....	318.29	314.97	345.06	348.34	-	9.12	9.18	9.72	9.84	-
175	Carpentering and flooring .....	306.09	317.94	312.58	323.91	-	8.55	8.65	8.83	9.15	-
176	Roofing and sheet metal work .....	280.06	221.26	301.20	306.16	-	8.36	8.20	8.68	8.90	-
-	<b>MANUFACTURING</b> .....	255.60	257.00	267.60	274.04	274.57	6.28	6.33	6.69	6.80	6.83
24, 25, 32-39	<b>DURABLE GOODS</b> .....	277.79	279.86	287.65	295.39	295.89	6.71	6.76	7.12	7.24	7.27
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	223.51	223.18	237.98	241.96	241.92	5.63	5.65	6.04	6.11	6.14
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	229.60	233.11	248.58	253.03	249.77	5.74	5.77	6.23	6.31	6.26
241	Logging camps and logging contractors .....	306.06	320.03	331.45	347.49	-	7.52	7.53	8.37	8.58	-
242	Sawmills and planing mills .....	242.76	245.37	264.27	267.56	-	5.95	5.97	6.43	6.51	-
2421	Sawmills and planing mills, general .....	256.44	259.97	273.92	282.22	-	6.27	6.31	6.77	6.85	-
2426	Hardwood dimension and flooring .....	163.22	165.64	172.80	174.68	-	4.04	4.04	4.32	4.40	-
243	Millwork, plywood, and structural members .....	224.07	224.87	238.98	242.14	-	5.63	5.65	6.05	6.13	-
2431	Millwork .....	214.09	210.30	225.23	233.42	-	5.42	5.42	5.79	5.85	-
2434	Wood kitchen cabinets .....	206.92	204.61	205.09	208.68	-	5.16	5.18	5.44	5.55	-
2435	Hardwood veneer and plywood .....	178.36	183.77	193.36	200.16	-	4.55	4.56	4.81	4.93	-
2436	Softwood veneer and plywood .....	286.63	290.90	316.16	316.71	-	7.13	7.13	7.73	7.82	-
244	Wooden containers .....	158.30	160.44	172.21	177.02	-	4.21	4.20	4.52	4.61	-
245	Wood buildings and mobile homes .....	206.27	211.29	219.25	220.79	-	5.33	5.39	5.68	5.72	-
2451	Mobile homes .....	202.69	207.13	218.09	221.16	-	5.32	5.38	5.65	5.70	-
249	Miscellaneous wood products .....	187.53	188.47	203.72	204.83	-	4.70	4.70	5.03	5.07	-
25	<b>FURNITURE AND FIXTURES</b> .....	188.02	189.29	196.86	202.02	204.88	4.76	4.78	5.10	5.18	5.20
251	Household furniture .....	174.33	176.46	184.80	189.05	-	4.47	4.49	4.80	4.86	-
2511	Wood household furniture .....	161.87	166.38	173.16	178.20	-	4.14	4.17	4.44	4.50	-
2512	Upholstered household furniture .....	184.99	187.11	190.23	195.66	-	4.78	4.81	5.10	5.19	-
2514	Metal household furniture .....	175.95	174.65	193.15	193.89	-	4.57	4.56	5.03	5.01	-
2515	Mattresses and bedsprings .....	202.36	196.72	212.16	217.95	-	5.11	5.07	5.44	5.56	-
252	Office furniture .....	211.82	211.64	218.69	219.54	-	5.23	5.20	5.44	5.53	-
253	Public building and related furniture .....	217.04	211.04	197.69	207.74	-	5.18	5.16	5.23	5.41	-
254	Partitions and fixtures .....	229.64	230.00	243.04	253.13	-	5.67	5.75	6.20	6.36	-
259	Miscellaneous furniture and fixtures .....	206.06	206.32	209.25	219.46	-	5.23	5.25	5.58	5.73	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

## C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry—Continued

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 P
-	<b>TOTAL PRIVATE</b> .....	35.9	35.9	36.0	35.8	35.6	-	-	-	-	-
-	<b>MINING</b> .....	43.5	43.7	43.1	43.5	43.5	-	-	-	-	-
10	<b>METAL MINING</b> .....	41.8	41.7	40.9	40.9	-	-	-	-	-	-
101	Iron ores .....	42.2	41.8	42.7	41.7	-	-	-	-	-	-
102	Copper ores .....	41.6	41.5	42.5	42.2	-	-	-	-	-	-
11, 12	<b>COAL MINING</b> .....	39.9	40.4	40.0	40.7	-	-	-	-	-	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	39.9	40.4	40.0	40.7	-	-	-	-	-	-
13	<b>OIL AND GAS EXTRACTION</b> .....	45.5	45.6	44.8	45.3	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	42.0	41.4	41.3	41.6	-	-	-	-	-	-
138	Oil and gas field services .....	46.9	47.4	46.2	46.7	-	-	-	-	-	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	46.2	46.1	45.9	45.7	-	-	-	-	-	-
142	Crushed and broken stone .....	48.1	47.8	47.8	47.2	-	-	-	-	-	-
-	<b>CONSTRUCTION</b> .....	37.4	37.9	38.0	37.9	37.4	-	-	-	-	-
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	35.8	36.3	36.6	36.5	-	-	-	-	-	-
152	Residential building construction .....	35.4	36.0	36.2	36.1	-	-	-	-	-	-
153	Operative builders .....	36.5	35.8	37.6	36.9	-	-	-	-	-	-
154	Nonresidential building construction .....	36.2	36.6	37.0	36.9	-	-	-	-	-	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	41.2	42.0	42.2	41.8	-	-	-	-	-	-
161	Highway and street construction .....	42.9	44.1	44.4	43.9	-	-	-	-	-	-
162	Heavy construction, except highway .....	40.3	40.9	40.9	40.5	-	-	-	-	-	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	36.8	37.0	37.0	37.0	-	-	-	-	-	-
171	Plumbing, heating, air conditioning .....	38.1	38.2	38.0	38.2	-	-	-	-	-	-
172	Painting, paper hanging, decorating .....	35.6	35.7	35.7	35.2	-	-	-	-	-	-
173	Electrical work .....	38.1	38.2	38.5	38.3	-	-	-	-	-	-
174	Masonry, stonework, and plastering .....	34.9	35.4	35.5	35.4	-	-	-	-	-	-
175	Carpentering and flooring .....	35.8	35.6	35.4	35.4	-	-	-	-	-	-
176	Roofing and sheet metal work .....	33.5	34.3	34.7	34.4	-	-	-	-	-	-
-	<b>MANUFACTURING</b> .....	40.7	40.6	40.0	40.3	40.2	3.9	3.8	3.3	3.6	3.4
24, 25, 32-39	<b>DURABLE GOODS</b> .....	41.4	41.4	40.4	40.8	40.7	4.2	4.1	3.4	3.6	3.5
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	39.7	39.5	39.4	39.6	39.4	3.6	3.4	3.2	3.5	3.3
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	40.0	40.4	39.9	40.1	39.9	3.9	4.0	3.7	3.9	-
241	Logging camps and logging contractors .....	40.7	42.5	39.6	40.5	-	4.9	5.6	4.6	5.0	-
242	Sawmills and planing mills .....	40.8	41.1	41.1	41.1	-	4.7	4.8	4.6	4.6	-
2421	Sawmills and planing mills, general .....	40.9	41.2	41.2	41.2	-	4.9	5.1	4.9	4.9	-
2426	Hardwood dimension and flooring .....	40.4	41.0	40.0	39.7	-	3.9	3.9	3.3	3.3	-
243	Millwork, plywood, and structural members .....	39.8	39.8	39.5	39.5	-	3.4	3.3	3.1	3.3	-
2431	Millwork .....	39.5	38.8	38.9	39.9	-	2.6	2.2	2.0	2.2	-
2434	Wood kitchen cabinets .....	40.1	39.5	37.7	37.6	-	2.6	2.4	2.1	2.3	-
2435	Hardwood veneer and plywood .....	39.2	40.3	40.2	40.6	-	3.8	3.8	3.7	4.2	-
2436	Softwood veneer and plywood .....	40.2	40.8	40.9	40.5	-	4.9	5.0	4.9	5.2	-
244	Wooden containers .....	37.6	38.2	38.1	38.4	-	3.1	3.1	2.7	3.2	-
245	Wood buildings and mobile homes .....	38.7	39.2	38.6	38.6	-	2.7	2.7	2.3	2.4	-
2451	Mobile homes .....	39.1	38.5	38.6	38.8	-	2.0	2.1	2.0	2.3	-
249	Miscellaneous wood products .....	39.9	40.1	40.5	40.4	-	3.8	3.6	3.4	3.7	-
25	<b>FURNITURE AND FIXTURES</b> .....	39.5	39.6	38.6	39.0	39.4	2.9	2.8	2.2	2.7	-
251	Household furniture .....	39.0	39.3	38.5	38.9	-	2.8	2.8	2.0	2.5	-
2511	Wood household furniture .....	39.1	39.9	39.0	39.6	-	3.3	3.4	2.3	3.1	-
2512	Upholstered household furniture .....	38.7	38.9	37.3	37.7	-	2.1	2.2	1.3	1.7	-
2514	Metal household furniture .....	38.5	38.3	38.4	38.7	-	1.6	1.8	1.6	1.4	-
2515	Mattresses and bedsprings .....	39.6	38.8	39.0	39.2	-	4.3	3.2	3.3	3.3	-
252	Office furniture .....	40.5	40.7	40.2	39.7	-	2.7	2.7	2.2	2.4	-
253	Public building and related furniture .....	41.9	40.9	37.8	38.4	-	3.1	2.6	2.4	3.0	-
254	Partitions and fixtures .....	40.5	40.0	39.2	39.8	-	3.7	3.4	3.0	3.9	-
259	Miscellaneous furniture and fixtures .....	39.4	39.3	37.5	38.3	-	2.6	2.2	2.4	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				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	\$272.81	\$274.53	\$287.73	\$290.65	\$291.33	\$6.48	\$6.49	\$6.90	\$6.97	\$7.02
321	Flat glass	352.29	357.47	365.40	356.18	-	8.08	8.18	8.70	8.73	-
322	Glass and glassware, pressed or blown	271.22	273.24	286.40	290.24	-	6.73	6.73	7.16	7.22	-
3221	Glass containers	284.72	286.71	301.85	304.31	-	7.03	7.01	7.49	7.57	-
3229	Pressed and blown glass, nec	252.00	254.47	266.11	271.48	-	6.30	6.33	6.72	6.77	-
323	Products of purchased glass	271.57	273.90	234.17	235.01	-	6.42	6.46	6.13	6.12	-
324	Cement, hydraulic	380.80	377.40	409.28	412.16	-	8.96	8.88	9.63	9.79	-
325	Structural clay products	213.91	213.79	226.87	232.93	-	5.23	5.24	5.52	5.64	-
326	Pottery and related products	205.28	210.28	215.04	223.62	-	5.25	5.31	5.60	5.69	-
327	Concrete, gypsum, and plaster products	285.56	288.18	309.28	309.06	-	6.49	6.52	6.95	7.04	-
3271	Concrete block and brick	265.64	263.73	292.64	295.82	-	5.89	5.90	6.46	6.38	-
3272	Concrete products, nec	247.66	245.23	265.31	264.39	-	5.80	5.77	6.17	6.28	-
3273	Ready-mixed concrete	318.35	326.07	342.90	345.65	-	7.17	7.23	7.62	7.75	-
329	Misc. nonmetallic mineral products	268.39	271.58	286.62	290.09	-	6.36	6.39	6.89	6.94	-
3291	Abrasive products	252.72	255.19	264.80	271.61	-	6.24	6.27	6.62	6.69	-
3292	Asbestos products	209.29	293.26	293.99	296.84	-	6.62	6.59	7.05	7.17	-
33	<b>PRIMARY METAL INDUSTRIES</b>	356.17	352.80	371.28	376.98	370.17	8.42	8.42	9.10	9.15	9.14
331	Blast furnace and basic steel products	409.34	399.92	431.73	435.74	-	9.70	9.66	10.66	10.68	-
3312	Blast furnaces and steel mills	422.84	411.18	444.51	448.22	-	10.02	9.98	11.03	11.04	-
3317	Steel pipe and tubes	328.25	326.70	340.16	355.30	-	7.76	7.76	8.43	8.50	-
332	Iron and steel foundries	312.06	315.78	305.47	316.98	-	7.36	7.43	7.58	7.75	-
3321	Gray iron foundries	319.50	322.48	304.13	313.60	-	7.50	7.57	7.68	7.84	-
3322	Malleable iron foundries	317.16	331.64	304.24	336.40	-	7.87	8.03	8.07	8.41	-
3325	Steel foundries, nec	297.22	300.48	318.42	328.85	-	7.01	7.07	7.51	7.63	-
333	Primary nonferrous metals	363.58	371.28	405.46	407.68	-	8.74	8.84	9.70	9.80	-
3334	Primary aluminum	383.16	397.71	427.38	422.82	-	9.30	9.38	10.20	10.44	-
335	Nonferrous rolling and drawing	320.54	321.21	325.81	348.30	-	7.42	7.47	7.92	8.10	-
3351	Copper rolling and drawing	304.10	300.40	314.03	321.16	-	6.88	6.89	7.32	7.40	-
3353	Aluminum sheet, plate, and foil	338.37	391.19	406.01	419.18	-	8.99	9.14	9.69	9.84	-
3357	Nonferrous wire drawing and insulating	300.18	299.34	303.36	317.25	-	7.03	7.06	7.24	7.50	-
336	Nonferrous foundries	260.19	263.72	264.66	273.10	-	6.30	6.37	6.60	6.76	-
3361	Aluminum foundries	271.01	273.16	272.83	278.47	-	6.61	6.63	6.77	6.91	-
34	<b>FABRICATED METAL PRODUCTS</b>	265.74	266.09	276.62	283.44	285.48	6.45	6.49	6.83	6.93	6.98
341	Metal cans and shipping containers	361.88	354.75	404.52	411.28	-	8.30	8.25	9.07	9.16	-
3411	Metal cans	373.64	365.93	420.71	424.26	-	8.55	8.51	9.37	9.47	-
342	Cutlery, hand tools, and hardware	250.71	249.67	255.45	264.00	-	6.16	6.18	6.50	6.60	-
3423.5	Hand and edge tools, and hand saws and blades	239.19	237.80	254.72	263.00	-	5.94	5.96	6.40	6.51	-
3429	Hardware, nec	264.27	261.70	259.85	269.17	-	6.43	6.43	6.60	6.78	-
343	Plumbing and heating, except electric	223.11	226.46	238.55	244.99	-	5.62	5.69	6.07	6.14	-
3432	Plumbing fittings and brass goods	216.86	222.56	234.95	235.81	-	5.49	5.55	5.83	5.91	-
3433	Heating equipment, except electric	222.24	221.43	228.27	239.58	-	5.57	5.62	5.96	6.05	-
344	Fabricated structural metal products	249.28	249.05	268.80	276.89	-	6.14	6.18	6.67	6.77	-
3441	Fabricated structural metal	264.45	265.77	292.82	298.69	-	6.45	6.53	7.09	7.18	-
3442	Metal doors, sash, and trim	194.93	195.92	213.07	217.49	-	4.91	4.96	5.34	5.37	-
3443	Fabricated plate work (boiler shops)	274.73	273.78	294.03	307.60	-	6.75	6.76	7.26	7.43	-
3444	Sheet metal work	250.74	252.33	267.92	273.71	-	6.30	6.34	6.80	6.86	-
3446	Architectural metal work	243.00	241.38	253.49	262.35	-	6.00	6.08	6.45	6.51	-
345	Screw machine products, bolts, etc.	260.22	263.77	267.49	275.76	-	6.08	6.12	6.43	6.55	-
3451	Screw machine products	240.24	243.07	250.85	256.39	-	5.72	5.76	6.03	6.09	-
3452	Bolts, nuts, rivets, and washers	280.99	284.89	284.13	295.12	-	6.43	6.46	6.83	7.01	-
346	Metal forgings and stampings	315.33	318.44	309.10	313.96	-	7.49	7.60	7.67	7.81	-
3462	Iron and steel forgings	340.85	350.65	321.34	334.62	-	8.02	8.27	8.39	8.58	-
3465	Automotive stampings	384.83	385.53	380.14	375.60	-	8.93	9.05	9.34	9.39	-
3469	Metal stampings, nec	235.34	237.56	246.84	250.31	-	5.74	5.78	6.05	6.12	-
347	Metal services, nec	210.37	212.34	223.04	228.17	-	5.22	5.23	5.59	5.69	-
3471	Plating and polishing	202.61	203.52	213.94	217.65	-	5.04	5.05	5.43	5.51	-
3479	Metal coating and allied services	229.17	232.37	242.54	249.87	-	5.62	5.64	5.93	6.05	-
348	Ordnance and accessories, nec	256.63	255.91	276.89	284.56	-	6.29	6.35	6.82	6.89	-
3483	Ammunition, exc. for small arms, nec	225.81	231.00	248.96	257.44	-	5.85	6.00	6.40	6.42	-
349	Misc. fabricated metal products	249.90	251.94	263.33	267.90	-	6.11	6.16	6.47	6.55	-
3494	Valves and pipe fittings	269.19	270.17	280.98	287.45	-	6.44	6.51	6.87	6.96	-
3496	Misc. fabricated wire products	216.80	219.89	229.31	231.66	-	5.42	5.47	5.69	5.72	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	290.07	291.90	303.56	313.50	310.91	6.89	6.95	7.35	7.50	7.51
351	Engines and turbines	346.44	344.84	349.55	362.91	-	8.19	8.23	8.94	9.05	-
3511	Turbines and turbine generator sets	318.78	320.46	271.21	289.54	-	7.59	7.63	8.12	8.32	-
3519	Internal combustion engines, nec	356.16	353.64	371.59	383.97	-	8.40	8.44	9.13	9.23	-
352	Farm and garden machinery	307.57	307.13	334.43	357.79	-	7.52	7.64	8.02	8.34	-
3523	Farm machinery and equipment	318.48	316.36	342.27	370.20	-	7.73	7.85	8.13	8.53	-
353	Construction and related machinery	313.34	317.15	329.93	338.16	-	7.39	7.48	7.95	8.09	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	42.1	42.3	41.7	41.7	41.5	5.2	5.2	4.8	4.7	-
321	Flat glass	43.6	43.7	42.0	40.8	-	5.8	5.8	4.2	3.4	-
322	Glass and glassware, pressed or blown	40.3	40.6	40.0	40.2	-	4.3	4.2	4.0	4.0	-
3221	Glass containers	40.5	40.9	40.3	40.2	-	4.9	4.8	4.3	4.3	-
3229	Pressed and blown glass, nec	40.0	40.2	39.6	40.1	-	3.5	3.4	3.7	3.6	-
323	Products of purchased glass	42.3	42.4	38.2	38.4	-	4.9	5.6	1.9	2.0	-
324	Cement, hydraulic	42.5	42.5	42.5	42.1	-	4.7	4.4	4.3	4.4	-
325	Structural clay products	40.9	40.8	41.1	41.3	-	4.4	4.4	4.3	4.3	-
326	Pottery and related products	39.1	39.6	38.4	39.3	-	2.6	3.0	2.4	2.7	-
327	Concrete, gypsum, and plaster products	44.0	44.2	44.5	43.9	-	7.2	7.2	7.1	6.8	-
3271	Concrete block and brick	45.1	44.7	45.3	44.8	-	7.7	7.7	7.3	6.9	-
3272	Concrete products, nec	42.7	42.5	43.0	42.1	-	6.5	6.0	6.2	5.7	-
3273	Ready-mixed concrete	44.4	45.1	45.0	44.6	-	7.2	7.7	7.5	7.4	-
329	Misc. nonmetallic mineral products	42.2	42.5	41.6	41.8	-	4.6	4.5	4.1	4.3	-
3291	Abrasive products	40.5	40.7	40.0	40.6	-	3.5	3.6	3.0	3.4	-
3292	Asbestos products	43.7	44.5	41.7	41.4	-	5.5	5.3	3.1	3.4	-
33	<b>PRIMARY METAL INDUSTRIES</b>	42.3	41.9	40.8	41.2	40.5	4.5	4.3	3.7	3.8	-
331	Blast furnace and basic steel products	42.2	41.4	40.5	40.0	-	3.9	3.6	3.4	3.4	-
3312	Blast furnaces and steel mills	42.2	41.2	40.3	40.6	-	3.9	3.5	3.3	3.3	-
3317	Steel pipe and tubes	42.3	42.1	41.3	41.8	-	4.7	4.4	3.3	3.8	-
332	Iron and steel foundries	42.4	42.5	40.3	40.9	-	5.2	5.2	3.4	3.6	-
3321	Gray iron foundries	42.6	42.6	39.6	40.0	-	5.7	5.6	3.0	3.0	-
3322	Malleable iron foundries	40.3	41.3	37.7	40.0	-	4.2	5.1	2.6	3.7	-
3325	Steel foundries, nec	42.4	42.5	42.4	43.1	-	4.5	4.4	4.5	5.0	-
333	Primary nonferrous metals	41.6	42.0	41.8	41.6	-	3.5	3.5	4.2	4.0	-
3334	Primary aluminum	41.2	42.4	41.9	40.5	-	3.9	3.8	4.2	4.0	-
335	Nonferrous rolling and drawing	43.2	43.0	42.4	43.0	-	5.7	5.6	5.0	5.4	-
3351	Copper rolling and drawing	44.2	43.6	42.9	43.4	-	6.3	6.1	5.5	6.0	-
3353	Aluminum sheet, plate and foil	43.2	42.8	41.9	42.6	-	7.3	7.1	6.3	6.6	-
3357	Nonferrous wire drawing and insulating	42.7	42.4	41.9	42.3	-	5.1	4.8	4.1	4.4	-
336	Nonferrous foundries	41.3	41.4	40.1	40.4	-	3.8	3.8	2.9	3.1	-
3361	Aluminum foundries	41.0	41.2	40.3	40.3	-	3.9	4.0	3.1	3.1	-
34	<b>FABRICATED METAL PRODUCTS</b>	41.2	41.0	40.5	40.9	40.9	4.1	3.9	3.3	3.6	-
341	Metal cans and shipping containers	43.6	43.0	44.6	44.9	-	5.5	4.2	5.7	6.0	-
3411	Metal cans	43.7	43.0	44.9	44.8	-	5.3	3.8	5.7	6.0	-
342	Cutlery, hand tools, and hardware	40.7	40.4	39.3	40.0	-	3.5	3.3	2.4	2.8	-
3423, 5	Hand and edge tools, and hand saws and blades	40.1	39.9	39.8	40.4	-	3.2	3.0	2.8	3.2	-
3429	Hardware, nec	41.1	40.7	38.9	39.7	-	3.8	3.6	2.1	2.4	-
343	Plumbing and heating, except electric	39.7	39.8	39.3	39.9	-	3.0	3.1	2.6	3.0	-
3432	Plumbing fittings and brass goods	39.5	40.1	40.3	39.9	-	2.9	3.2	3.1	2.6	-
3433	Heating equipment, except electric	39.9	39.4	38.3	39.6	-	3.0	2.9	2.1	3.2	-
344	Fabricated structural metal products	40.6	40.3	40.3	40.9	-	3.7	3.2	3.2	3.6	-
3441	Fabricated structural metal	41.0	40.7	41.3	41.6	-	4.1	3.9	3.8	4.0	-
3442	Metal doors, sash, and trim	39.7	39.5	39.9	40.5	-	3.0	2.7	3.0	3.3	-
3443	Fabricated plate work (boiler shops)	40.7	40.5	40.5	41.4	-	3.4	3.0	3.0	3.6	-
3444	Sheet metal work	39.8	39.8	39.4	39.9	-	3.7	3.5	3.0	3.5	-
3446	Architectural metal work	40.5	39.7	39.3	40.3	-	3.0	2.3	2.4	2.8	-
345	Screw machine products, bolts, etc.	42.8	43.1	41.6	42.1	-	5.6	5.7	4.4	4.6	-
3451	Screw machine products	42.0	42.2	41.6	42.1	-	5.5	5.7	4.6	4.8	-
3452	Bolts, nuts, rivets, and washers	43.7	44.1	41.6	42.1	-	5.8	5.8	4.2	4.3	-
346	Metal forgings and stampings	42.1	41.9	40.3	40.2	-	5.0	5.0	3.3	3.5	-
3462	Iron and steel forgings	42.5	42.4	38.3	39.0	-	5.8	5.7	3.1	3.8	-
3465	Automotive stampings	43.1	42.6	40.7	40.0	-	5.9	5.9	3.1	2.9	-
3469	Metal stampings, nec	41.0	41.1	40.8	40.9	-	3.7	3.7	3.4	3.8	-
347	Metal services, nec	40.3	40.6	39.9	40.1	-	4.0	4.0	3.6	3.8	-
3471	Plating and polishing	40.2	40.3	39.4	39.5	-	3.8	3.7	3.2	3.3	-
3479	Metal coating and allied services	40.6	41.2	40.9	41.3	-	4.5	4.6	4.5	5.0	-
348	Ordnance and accessories, nec	40.8	40.3	40.6	41.3	-	3.6	2.9	2.7	3.0	-
3483	Ammunition, exc. for small arms, nec	38.6	38.5	38.9	40.1	-	1.5	1.6	2.1	2.3	-
349	Misc. fabricated metal products	40.9	40.9	40.7	40.9	-	3.6	3.6	3.1	3.4	-
3494	Valves and pipe fittings	41.8	41.5	40.9	41.3	-	3.7	3.7	3.2	3.6	-
3496	Misc. fabricated wire products	40.0	40.2	40.3	40.5	-	3.3	3.3	3.2	3.5	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	42.1	42.0	41.3	41.8	41.4	4.5	4.4	3.7	4.2	-
351	Engines and turbines	42.3	41.9	39.1	40.1	-	4.2	4.2	3.0	3.4	-
3511	Turbines and turbine generator sets	42.0	42.0	33.4	34.8	-	4.8	5.2	3.0	3.2	-
3519	Internal combustion engines, nec	42.4	41.9	40.7	41.6	-	4.0	3.8	3.0	3.4	-
352	Farm and garden machinery	40.9	40.2	41.7	42.9	-	4.5	4.2	4.1	5.8	-
3523	Farm machinery and equipment	41.2	40.3	42.1	43.4	-	4.8	4.4	4.3	6.2	-
353	Construction and related machinery	42.4	42.4	41.5	41.8	-	3.9	4.1	3.3	3.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 <sup>P</sup>	Oct. 1979 <sup>P</sup>	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 <sup>P</sup>	Oct. 1979 <sup>P</sup>
<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>											
3531	Construction machinery	\$342.74	\$347.36	\$359.26	\$368.52	-	\$8.18	\$8.33	\$8.72	\$8.88	-
3532	Mining machinery	306.59	315.66	329.47	339.15	-	7.13	7.29	7.92	7.98	-
3533	Oil field machinery	300.09	301.89	308.55	315.55	-	6.82	6.83	7.26	7.39	-
3535	Conveyers and conveying equipment	254.56	256.05	292.28	289.93	-	6.09	6.13	7.06	7.02	-
3537	Industrial trucks and tractors	273.50	280.98	286.16	297.75	-	6.72	6.82	7.19	7.28	-
354	Metalworking machinery	311.14	315.08	323.25	334.95	-	7.12	7.21	7.50	7.70	-
3541	Machine tools, metal cutting types	326.03	332.57	333.41	349.97	-	7.31	7.44	7.70	7.90	-
3542	Machine tools, metal forming types	321.00	322.39	310.00	335.86	-	7.50	7.48	7.75	7.94	-
3544	Special dies, tools, jigs, and fixtures	338.90	347.08	349.36	360.30	-	7.65	7.73	7.94	8.17	-
3545	Machine tool accessories	274.56	275.14	302.56	313.93	-	6.43	6.52	7.02	7.25	-
3546	Power driven hand tools	233.38	230.77	243.76	247.83	-	5.61	5.67	5.96	6.03	-
355	Special industry machinery	271.00	272.41	283.39	291.87	-	6.53	6.58	6.98	7.05	-
3551	Food products machinery	283.45	286.35	301.51	305.37	-	6.83	6.90	7.39	7.43	-
3552	Textile machinery	220.58	220.19	230.36	234.26	-	5.38	5.41	5.66	5.77	-
3555	Printing trades machinery	279.47	274.90	292.01	306.13	-	6.67	6.64	7.21	7.22	-
356	General industrial machinery	284.81	286.21	300.21	309.09	-	6.83	6.88	7.34	7.43	-
3561	Pumps and pumping equipment	279.62	284.28	296.13	300.98	-	6.82	6.90	7.33	7.45	-
3562	Ball and roller bearings	287.85	291.35	308.92	314.29	-	6.87	6.97	7.48	7.43	-
3563	Air and gas compressors	307.30	301.75	303.14	326.06	-	7.13	7.10	7.43	7.69	-
3564	Blowers and fans	244.42	248.44	270.95	279.62	-	6.08	6.18	6.69	6.82	-
3566	Speed changers, drives, and gears	317.99	322.51	347.11	361.74	-	7.26	7.38	8.11	8.24	-
3568	Power transmission equipment, nec	281.96	283.75	288.81	289.93	-	6.65	6.74	7.01	7.02	-
357	Office and computing machines	235.41	235.41	252.54	255.84	-	5.70	5.70	6.10	6.15	-
3573	Electronic computing equipment	237.22	235.00	256.67	261.66	-	5.73	5.69	6.17	6.23	-
358	Refrigeration and service machinery	255.41	257.67	266.00	270.95	-	6.26	6.30	6.65	6.74	-
3585	Refrigeration and heating equipment	262.63	263.86	272.96	275.77	-	6.39	6.42	6.79	6.86	-
359	Misc. machinery, except electrical	284.00	285.66	291.28	300.77	-	6.62	6.69	7.07	7.23	-
3592	Carburetors, pistons, rings, valves	322.27	325.71	330.88	343.62	-	7.46	7.61	8.19	8.26	-
3599	Machinery, except electrical, nec	276.49	277.98	283.32	292.45	-	6.46	6.51	6.86	7.03	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	240.17	240.38	252.49	260.98	\$263.66	5.93	5.95	6.36	6.46	\$6.51
361	Electric distributing equipment	244.22	245.03	245.92	258.89	-	6.03	6.05	6.21	6.44	-
3612	Transformers	231.09	233.54	234.77	245.83	-	5.65	5.71	5.84	6.10	-
3613	Switchgear and switchboard apparatus	254.64	254.87	254.67	270.27	-	6.35	6.34	6.53	6.74	-
362	Electrical industrial apparatus	245.01	244.62	258.89	266.18	-	6.02	6.04	6.44	6.54	-
3621	Motors and generators	251.53	250.70	253.60	265.12	-	6.18	6.19	6.34	6.53	-
3622	Industrial controls	225.84	229.39	264.14	267.15	-	5.59	5.65	6.62	6.58	-
363	Household appliances	233.60	233.23	254.54	262.51	-	5.84	5.86	6.51	6.53	-
3632	Household refrigerators and freezers	249.60	255.10	280.86	290.39	-	6.24	6.33	7.22	7.17	-
3633	Household laundry equipment	267.42	266.81	313.39	315.29	-	6.91	6.93	7.70	7.69	-
3634	Electric housewares and fans	201.97	203.00	205.64	214.00	-	4.96	5.00	5.30	5.35	-
364	Electric lighting and wiring equipment	273.11	223.91	230.66	240.60	-	5.55	5.57	5.81	6.00	-
3641	Electric lamps	246.60	247.61	259.37	273.10	-	6.00	6.01	6.42	6.71	-
3643	Current-carrying wiring devices	207.03	206.92	222.86	231.34	-	5.15	5.16	5.53	5.67	-
3644	Noncurrent-carrying wiring devices	223.91	224.80	234.14	240.79	-	5.57	5.62	6.05	6.19	-
3645	Residential lighting fixtures	170.31	168.66	178.26	178.01	-	4.47	4.45	4.63	4.66	-
365	Radio and TV receiving equipment	218.14	215.60	227.24	231.67	-	5.44	5.50	5.98	5.91	-
3651	Radio and TV receiving sets	220.57	218.48	229.59	235.62	-	5.57	5.66	6.09	6.12	-
366	Communication equipment	283.86	280.71	305.59	315.05	-	6.84	6.83	7.49	7.61	-
3661	Telephone and telegraph apparatus	284.01	278.20	327.76	334.74	-	7.03	6.99	7.86	7.97	-
3662	Radio and TV communication equipment	283.41	281.82	288.72	300.12	-	6.70	6.71	7.20	7.32	-
367	Electronic components and accessories	199.00	200.50	212.22	218.10	-	5.00	5.00	5.40	5.48	-
3671-3	Electronic tubes	260.00	263.96	273.38	287.04	-	6.25	6.33	6.75	6.90	-
3674	Semiconductors and related devices	228.33	226.70	247.65	254.62	-	5.61	5.57	6.13	6.18	-
3679	Electronic components, nec	183.06	185.87	196.56	199.68	-	4.67	4.67	5.04	5.12	-
368	Misc. electrical equipment and supplies	292.99	292.22	291.53	297.92	-	7.06	7.11	7.27	7.32	-
3691	Storage batteries	311.53	313.96	305.72	312.30	-	7.33	7.37	7.53	7.58	-
3694	Engine electrical equipment	324.66	321.18	319.20	324.41	-	7.88	7.95	8.02	8.07	-
37	<b>TRANSPORTATION EQUIPMENT</b>	343.31	350.57	341.82	349.21	356.75	8.04	8.21	8.44	8.58	8.68
371	Motor vehicles and equipment	378.43	389.39	357.60	364.31	-	8.64	8.87	8.94	9.04	-
3711	Motor vehicles and car bodies	395.95	412.83	391.64	391.31	-	9.04	9.34	9.89	9.71	-
3713	Truck and bus bodies	280.49	284.62	277.80	296.21	-	6.96	7.08	6.98	7.35	-
3714	Motor vehicle parts and accessories	382.73	388.95	350.67	355.92	-	8.62	8.78	8.68	8.81	-
3715	Truck trailers	232.64	222.66	237.07	242.03	-	5.73	5.68	6.11	6.19	-
372	Aircraft and parts	325.46	329.02	345.27	355.73	-	7.64	7.76	8.26	8.37	-
3721	Aircraft	328.67	337.50	356.59	362.08	-	7.77	7.96	8.47	8.58	-
3724	Aircraft engines and engine parts	339.10	334.05	350.88	374.96	-	7.96	8.03	8.60	8.72	-
3728	Aircraft equipment, nec	302.40	305.42	315.03	323.14	-	7.00	7.07	7.43	7.55	-
373	Ship and boat building and repairing	265.59	265.72	292.07	(*)	-	6.69	6.71	7.32	(*)	-
3731	Shipbuilding and repairing	292.66	283.54	307.17	(*)	-	7.12	7.16	7.66	(*)	-
3732	Boat building and repairing	212.65	212.51	237.51	240.77	-	5.37	5.38	6.09	6.08	-
374	Railroad equipment	321.60	329.11	375.58	378.27	-	8.04	8.29	9.05	9.34	-

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				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p
<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>											
3531	Construction machinery	41.9	41.7	41.2	41.5	-	3.4	3.1	2.5	2.5	-
3532	Mining machinery	43.0	43.3	41.6	42.5	-	3.4	3.8	3.3	3.9	-
3533	Oil field machinery	44.0	44.2	42.5	42.7	-	5.4	5.9	4.5	5.1	-
3535	Conveyers and conveying equipment	41.8	41.9	41.4	41.3	-	3.9	4.1	4.0	3.5	-
3537	Industrial trucks and tractors	40.7	41.2	39.8	40.9	-	3.3	3.8	3.1	3.7	-
354	Metalworking machinery	43.7	43.7	43.1	43.5	-	5.9	5.9	5.5	5.9	-
3541	Machine tools, metal cutting types	44.6	44.7	43.3	44.3	-	6.3	6.8	5.9	6.6	-
3542	Machine tools, metal forming types	42.8	43.1	40.0	42.3	-	6.2	5.9	5.0	6.2	-
3544	Special dies, tools, jigs, and fixtures	44.3	44.9	44.0	44.1	-	6.7	6.8	5.9	6.1	-
3545	Machine tool accessories	42.7	42.2	43.1	43.3	-	5.1	4.9	5.5	5.7	-
3546	Power driven hand tools	41.6	40.7	40.9	41.1	-	4.1	3.3	3.9	4.1	-
355	Special industry machinery	41.5	41.4	40.6	41.4	-	4.2	4.0	3.3	3.9	-
3551	Food products machinery	41.5	41.5	40.8	41.1	-	3.7	3.5	3.1	3.6	-
3552	Textile machinery	41.0	40.7	40.7	40.6	-	3.4	3.0	2.4	3.0	-
3555	Printing trades machinery	41.9	41.4	40.5	42.4	-	4.9	4.3	4.0	4.0	-
356	General industrial machinery	41.7	41.6	40.9	41.6	-	4.5	4.4	3.7	4.2	-
3561	Pumps and pumping equipment	41.0	41.2	40.4	40.4	-	3.8	4.1	3.1	3.5	-
3562	Ball and roller bearings	41.9	41.8	41.3	42.3	-	5.4	5.2	4.2	4.3	-
3563	Air and gas compressors	43.1	42.5	40.8	42.4	-	4.6	4.1	3.3	4.6	-
3564	Blowers and fans	40.2	40.2	40.5	41.0	-	3.5	3.5	3.7	4.4	-
3566	Speed changers, drives, and gears	43.8	43.7	42.8	43.9	-	5.1	5.1	5.0	5.8	-
356B	Power transmission equipment, nec	42.4	42.1	41.2	41.3	-	5.3	4.8	3.8	3.9	-
357	Office and computing machines	41.3	41.3	41.4	41.6	-	3.4	3.2	2.7	3.0	-
3573	Electronic computing equipment	41.4	41.3	41.6	42.0	-	3.5	3.1	2.8	3.2	-
358	Refrigeration and service machinery	40.8	40.9	40.0	40.2	-	3.5	3.2	2.5	2.6	-
3585	Refrigeration and heating equipment	41.1	41.1	40.2	40.2	-	3.7	3.3	2.8	2.7	-
359	Misc. machinery, except electrical	42.9	42.7	41.2	41.6	-	5.0	5.1	4.0	4.2	-
3592	Carburetors, pistons, rings, valves	43.2	42.8	40.4	41.6	-	4.2	4.0	3.2	3.5	-
3599	Machinery, except electrical, nec	42.8	42.7	41.3	41.6	-	5.2	5.3	4.2	4.3	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	40.5	40.4	39.7	40.4	40.5	3.1	3.0	2.6	2.9	-
361	Electric distributing equipment	40.5	40.5	39.6	40.2	-	2.9	3.0	2.4	2.7	-
3612	Transformers	40.9	40.9	40.2	40.3	-	3.1	3.0	2.8	3.0	-
3613	Switchgear and switchboard apparatus	40.1	40.2	39.0	40.1	-	2.8	2.9	2.1	2.5	-
362	Electrical industrial apparatus	40.7	40.5	40.2	40.7	-	3.2	3.1	2.7	3.0	-
3621	Motors and generators	40.7	40.5	40.0	40.6	-	3.3	3.2	2.6	2.9	-
3622	Industrial controls	40.4	40.6	39.9	40.6	-	2.4	2.5	2.6	3.0	-
363	Household appliances	40.0	39.8	39.1	40.2	-	2.5	2.3	2.5	2.8	-
3632	Household refrigerators and freezers	40.0	40.3	38.9	40.5	-	1.6	1.6	2.6	2.6	-
3633	Household laundry equipment	38.7	38.5	40.7	41.0	-	.9	.8	1.7	1.7	-
3634	Electric housewares and fans	40.7	40.6	38.8	40.0	-	3.5	3.4	2.4	3.2	-
364	Electric lighting and wiring equipment	40.2	40.2	39.7	40.1	-	3.1	3.0	2.4	2.7	-
3641	Electric lamps	41.1	41.2	40.4	40.7	-	2.9	2.9	1.8	2.4	-
3643	Current-carrying wiring devices	40.2	40.1	40.3	40.8	-	3.1	3.0	2.9	3.2	-
3644	Noncurrent-carrying wiring devices	40.2	40.0	38.7	38.9	-	3.3	3.0	2.1	2.2	-
3645	Residential lighting fixtures	38.1	37.9	38.5	38.2	-	1.9	2.2	2.1	2.0	-
365	Radio and TV receiving equipment	40.1	39.2	38.0	39.2	-	2.8	2.4	1.8	2.2	-
3651	Radio and TV receiving sets	39.6	38.6	37.7	38.5	-	2.2	1.8	1.5	1.6	-
366	Communication equipment	41.5	41.1	40.8	41.4	-	3.3	3.0	2.8	3.1	-
3661	Telephone and telegraph apparatus	40.4	39.8	41.7	42.0	-	3.2	2.9	3.4	3.6	-
3662	Radio and TV communication equipment	42.3	42.0	40.1	41.0	-	3.3	3.1	2.3	2.7	-
367	Electronic components and accessories	39.8	40.1	39.3	39.8	-	2.9	2.8	2.7	2.9	-
3671-3	Electronic tubes	41.6	41.7	40.5	41.6	-	2.4	2.1	2.0	2.4	-
3674	Semiconductors and related devices	40.7	40.7	40.4	41.2	-	4.1	3.6	3.6	3.9	-
3679	Electronic components, nec	39.2	39.8	39.0	39.0	-	2.6	2.7	2.5	2.6	-
369	Misc. electrical equipment and supplies	41.5	41.1	40.1	40.7	-	4.4	4.0	2.3	2.7	-
3691	Storage batteries	42.5	42.6	40.6	41.2	-	5.5	5.4	3.6	4.2	-
3694	Engine electrical equipment	41.2	40.4	39.8	40.2	-	4.6	3.8	1.6	1.9	-
37	<b>TRANSPORTATION EQUIPMENT</b>	42.7	42.7	40.5	40.7	41.1	5.5	5.6	4.0	3.8	-
371	Motor vehicles and equipment	43.8	43.9	40.0	40.3	-	6.8	7.0	4.0	3.4	-
3711	Motor vehicles and car bodies	43.8	44.2	39.6	40.3	-	6.8	7.4	5.6	3.9	-
3713	Truck and bus bodies	40.3	40.2	39.8	40.3	-	3.6	4.0	3.3	3.6	-
3714	Motor vehicle parts and accessories	44.4	44.3	40.4	40.4	-	7.3	7.2	3.0	3.1	-
3715	Truck trailers	40.6	39.2	38.8	39.1	-	3.7	2.7	2.1	2.5	-
372	Aircraft and parts	42.6	42.4	41.8	42.5	-	4.6	4.7	4.4	4.9	-
3721	Aircraft	42.3	42.4	42.1	42.2	-	3.8	4.0	4.1	4.3	-
3724	Aircraft engines and engine parts	42.6	41.6	40.8	43.0	-	5.4	5.2	4.6	5.5	-
3728	Aircraft equipment, nec	43.2	43.2	42.4	42.8	-	5.6	5.6	4.9	5.6	-
373	Ship and boat building and repairing	39.7	39.6	39.9	(*)	-	2.5	2.8	3.4	(*)	-
3731	Ship building and repairing	39.7	39.6	40.1	(*)	-	2.3	2.9	3.7	(*)	-
3732	Boat building and repairing	39.6	39.5	39.0	39.6	-	3.0	2.8	2.5	2.6	-
374	Railroad equipment	40.0	39.7	41.5	40.5	-	4.0	3.6	5.1	4.6	-

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				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 <sup>P</sup>	Oct. 1979 <sup>P</sup>	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 <sup>P</sup>	Oct. 1979 <sup>P</sup>
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
376	Guided missiles, space vehicles, parts .....	\$326.04	\$336.01	\$344.03	\$355.28	-	\$7.60	\$7.76	\$8.27	\$8.52	-
3761	Guided missiles and space vehicles .....	322.82	331.55	346.10	360.26	-	7.76	7.97	8.36	8.66	-
379	Miscellaneous transportation equipment .....	223.51	220.97	256.89	260.83	-	5.63	5.58	6.52	6.57	-
3792	Travel trailers and campers .....	195.33	196.72	216.34	220.07	-	5.10	5.07	5.80	5.90	-
<b>INSTRUMENTS AND RELATED PRODUCTS</b>											
38	Engineering and scientific instruments .....	237.15	237.39	247.44	253.37	\$254.97	5.77	5.79	6.14	6.21	\$6.28
381	Measuring and controlling devices .....	255.78	260.65	270.52	278.94	-	6.09	6.09	6.55	6.61	-
382	Environmental controls .....	241.43	241.13	253.37	261.66	-	5.86	5.91	6.21	6.29	-
3822	Process control instruments .....	227.40	225.28	236.80	239.17	-	5.56	5.59	5.92	5.92	-
3823	Instruments to measure electricity .....	258.26	254.28	254.20	274.29	-	6.02	6.04	6.17	6.32	-
3825	Optical instruments and lenses .....	245.63	249.48	271.58	276.81	-	6.05	6.16	6.56	6.67	-
383	Medical instruments and supplies .....	268.14	271.92	297.25	296.92	-	6.15	6.18	6.71	6.81	-
384	Surgical and medical instruments .....	202.81	202.40	199.30	205.14	-	5.02	5.01	5.19	5.26	-
3841	Surgical appliances and supplies .....	199.26	197.41	185.08	192.27	-	4.79	4.78	4.77	4.88	-
3842	Ophthalmic goods .....	207.76	206.96	210.86	216.28	-	5.22	5.20	5.52	5.56	-
385	Photographic equipment and supplies .....	181.35	179.80	192.76	193.61	-	4.65	4.67	4.93	4.99	-
386	Watches, clocks, and watchcases .....	306.25	308.25	322.04	327.85	-	7.24	7.27	7.76	7.90	-
387	Watches, clocks, and watchcases .....	179.25	176.31	184.00	188.02	-	4.47	4.43	4.73	4.76	-
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>											
39	Jewelry, silverware, and plated ware .....	185.42	186.12	196.06	199.25	200.82	4.73	4.76	5.04	5.07	5.11
391	Jewelry, precious metal .....	187.99	191.69	199.05	200.06	-	4.83	4.89	5.17	5.21	-
3911	Musical instruments .....	179.17	184.89	191.52	189.21	-	4.74	4.84	5.08	5.10	-
393	Toys and sporting goods .....	183.28	184.61	204.31	208.59	-	4.64	4.65	5.02	5.10	-
394	Dolls, games, toys, and children's vehicles .....	167.96	163.96	176.33	181.96	-	4.34	4.40	4.58	4.63	-
3942, 4	Sporting and athletic goods, nec .....	160.61	160.82	172.16	175.22	-	4.15	4.21	4.46	4.47	-
3949	Pens, pencils, office and art supplies .....	176.09	178.41	180.78	190.00	-	4.55	4.61	4.72	4.81	-
395	Costume jewelry and notions .....	199.94	199.35	215.13	216.83	-	4.91	4.91	5.26	5.25	-
396	Costume jewelry .....	156.21	156.15	158.61	163.13	-	4.10	4.12	4.31	4.35	-
3961	Miscellaneous manufactures .....	145.47	144.20	147.65	154.46	-	3.90	3.94	4.09	4.13	-
399	Signs and advertising displays .....	211.47	212.90	223.34	223.57	-	5.30	5.32	5.64	5.66	-
3993	Signs and advertising displays .....	218.51	220.81	230.49	230.47	-	5.56	5.59	5.91	5.94	-
<b>NONDURABLE GOODS</b>											
<b>FOOD AND KINDRED PRODUCTS</b>											
20	Meat products .....	236.96	235.01	253.08	257.40	254.56	5.88	5.89	6.28	6.34	6.38
201	Meat packing plants .....	244.62	240.79	260.65	264.31	-	6.07	6.05	6.42	6.51	-
2011	Sausages and other prepared meats .....	309.40	302.74	328.13	335.49	-	7.28	7.26	7.85	7.95	-
2013	Poultry dressing plants .....	273.43	269.60	307.34	312.01	-	6.87	6.86	7.57	7.61	-
2016	Dairy products .....	146.29	145.88	165.51	163.31	-	3.87	3.89	4.19	4.22	-
202	Cheese, natural and processed .....	249.13	246.79	262.71	269.00	-	5.96	5.99	6.30	6.42	-
2022	Fluid milk .....	222.16	227.03	244.01	242.35	-	5.61	5.69	6.01	6.12	-
2026	Preserved fruits and vegetables .....	262.30	257.65	274.53	285.57	-	6.10	6.12	6.49	6.58	-
203	Canned specialties .....	204.22	197.57	222.15	227.55	-	5.17	5.04	5.54	5.55	-
2032	Canned fruits and vegetables .....	248.64	245.27	279.07	282.83	-	5.92	5.91	6.49	6.37	-
2033	Frozen fruits and vegetables .....	209.48	192.27	223.34	229.90	-	5.25	4.93	5.64	5.58	-
2037	Grain mill products .....	195.61	195.62	207.83	224.35	-	4.99	4.94	5.17	5.38	-
204	Flour and other grain mill products .....	237.51	287.95	304.15	307.04	-	6.49	6.50	6.96	7.01	-
2041	Prepared feeds, nec .....	330.62	335.59	327.93	348.27	-	7.11	7.08	7.16	7.41	-
2048	Bakery products .....	229.62	228.51	251.30	254.67	-	5.16	5.17	5.66	5.71	-
205	Bread, cake, and related products .....	239.69	237.78	254.53	261.97	-	6.13	6.16	6.56	6.70	-
2051	Cookies and crackers .....	241.02	236.69	255.92	261.90	-	6.18	6.18	6.63	6.75	-
2052	Sugar and confectionery products .....	234.62	239.16	250.98	263.06	-	5.97	6.07	6.37	6.56	-
206	Cane and beet sugar .....	227.66	226.63	240.73	238.76	-	5.72	5.68	6.11	6.06	-
2061-3	Fats and oils .....	274.11	261.62	288.86	297.01	-	6.87	6.59	7.35	7.37	-
2065	Beverages .....	198.69	200.30	213.72	209.06	-	5.03	5.02	5.48	5.43	-
207	Malt beverages .....	272.44	267.09	294.10	291.84	-	6.22	6.14	6.73	6.74	-
208	Bottled and canned soft drinks .....	285.31	285.20	308.66	313.12	-	7.01	7.13	7.51	7.60	-
2082	Misc. foods and kindred products .....	393.76	395.65	432.60	427.45	-	9.42	9.65	10.30	10.30	-
2086	Cigarettes .....	213.44	207.64	229.90	229.14	-	5.27	5.27	5.58	5.63	-
209	Cigarettes .....	193.54	193.02	202.20	207.58	-	5.12	5.12	5.45	5.58	-
<b>TOBACCO MANUFACTURES</b>											
21	Cigarettes .....	228.31	218.83	247.78	255.06	246.27	5.93	5.82	6.59	6.54	6.38
211	Cigarettes .....	289.94	273.04	301.34	317.68	-	7.59	7.46	7.93	8.23	-
<b>TEXTILE MILL PRODUCTS</b>											
22	Weaving mills, cotton .....	179.99	178.13	192.23	196.25	197.47	4.42	4.42	4.77	4.81	4.84
221	Weaving mills, synthetics .....	138.09	190.81	208.75	212.61	-	4.61	4.62	5.03	5.05	-
222	Weaving and finishing mills, wool .....	196.98	195.67	204.93	213.18	-	4.69	4.67	5.06	5.10	-
223	Narrow fabric mills .....	188.52	184.87	192.85	197.07	-	4.51	4.52	4.87	4.89	-
224	Knitting mills .....	163.61	162.37	171.83	174.80	-	4.08	4.09	4.35	4.37	-
225	Knitting mills .....	156.72	155.50	170.28	170.56	-	4.06	4.06	4.40	4.43	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
376	Guided missiles, space vehicles, parts .....	42.9	43.3	41.6	41.7	-	4.5	5.2	4.4	4.9	-
3761	Guided missiles and space vehicles .....	41.6	41.6	41.4	41.6	-	3.6	4.0	3.9	4.4	-
379	Miscellaneous transportation equipment .....	39.7	39.6	39.4	39.7	-	2.8	2.3	1.4	1.6	-
3792	Travel trailers and campers .....	38.3	38.8	37.3	37.3	-	2.5	2.2	1.0	1.0	-
<b>INSTRUMENTS AND RELATED PRODUCTS</b>											
38	Engineering and scientific instruments .....	41.1	41.0	40.3	40.8	40.6	2.8	2.9	2.3	2.7	-
381	Measuring and controlling devices .....	42.0	42.8	41.3	42.2	-	3.5	3.7	3.6	4.1	-
382	Environmental controls .....	41.2	40.8	40.8	41.6	-	2.6	2.5	2.4	2.9	-
3822	Process control instruments .....	40.9	40.3	40.0	40.4	-	2.2	1.6	1.8	2.0	-
3823	Instruments to measure electricity .....	42.9	42.1	41.2	43.4	-	3.8	3.7	2.7	3.9	-
3825	Optical instruments and lenses .....	40.6	40.5	41.4	41.5	-	1.9	2.0	2.1	2.3	-
383	Medical instruments and supplies .....	43.6	44.0	44.3	43.6	-	3.8	3.5	4.0	3.7	-
384	Surgical and medical instruments .....	40.4	40.4	38.4	39.0	-	2.6	3.2	1.8	2.1	-
3841	Surgical appliances and supplies .....	41.6	41.3	38.8	39.4	-	3.1	4.3	2.1	2.5	-
3842	Ophthalmic goods .....	39.8	39.8	38.2	38.9	-	2.4	2.4	1.6	1.9	-
385	Photographic equipment and supplies .....	39.0	38.5	39.1	38.8	-	2.1	1.8	1.9	1.9	-
386	Watches, clocks, and watchcases .....	42.3	42.4	41.5	41.5	-	3.5	3.5	2.5	3.0	-
387	Watches, clocks, and watchcases .....	40.1	39.8	39.9	39.5	-	2.5	2.4	1.2	1.8	-
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>											
39	Jewelry, silverware, and plated ware .....	39.2	39.1	38.9	39.3	39.3	2.6	2.8	2.3	2.7	-
391	Jewelry, precious metal .....	38.9	39.2	38.5	38.4	-	2.8	3.2	2.1	2.5	-
3911	Toys and sporting goods .....	37.8	38.2	37.7	37.1	-	2.5	2.8	1.8	2.3	-
393	Dolls, games, toys, and children's vehicles .....	39.5	39.7	40.7	40.9	-	2.1	2.1	2.2	2.4	-
394	Sporting and athletic goods, nec .....	38.7	38.4	38.5	39.3	-	2.1	2.4	1.9	2.5	-
3942, 4	Pens, pencils, office and art supplies .....	38.7	38.2	38.6	39.2	-	2.6	2.8	1.9	2.4	-
3949	Costume jewelry and notions .....	38.7	38.7	38.3	39.5	-	1.7	1.8	1.9	2.6	-
395	Costume jewelry and notions .....	40.7	40.6	40.9	41.3	-	2.8	2.7	3.2	3.5	-
396	Signs and advertising displays .....	38.1	37.9	36.8	37.5	-	2.7	3.1	1.9	2.0	-
3961	Miscellaneous manufactures .....	37.3	36.6	36.1	37.4	-	2.6	3.1	1.7	1.8	-
399	Signs and advertising displays .....	39.9	40.0	39.6	39.5	-	3.0	2.9	2.8	3.2	-
3993	Signs and advertising displays .....	39.3	39.5	39.0	38.8	-	2.4	2.8	2.5	2.9	-
<b>NONDURABLE GOODS</b>											
<b>FOOD AND KINDRED PRODUCTS</b>											
20	Meat products .....	40.3	39.9	40.3	40.6	39.9	4.6	4.1	4.5	4.9	-
201	Meat packing plants .....	40.3	39.8	40.6	40.6	-	4.5	4.0	4.5	4.8	-
2011	Sausages and other prepared meats .....	42.5	41.7	41.8	42.2	-	5.7	5.0	5.3	5.7	-
2013	Poultry dressing plants .....	39.8	39.3	40.6	41.0	-	3.7	3.1	3.8	4.6	-
2016	Dairy products .....	37.8	37.5	39.5	38.7	-	3.5	3.1	4.1	4.0	-
202	Cheese, natural and processed .....	41.9	41.2	41.7	41.9	-	4.5	4.0	4.4	4.5	-
2022	Fluid milk .....	39.6	39.9	40.6	39.6	-	3.4	3.9	4.2	3.5	-
2026	Preserved fruits and vegetables .....	43.0	42.1	42.3	43.4	-	5.2	4.2	4.4	4.9	-
203	Canned specialties .....	39.5	39.2	40.1	41.0	-	5.1	4.0	5.4	6.2	-
2032	Canned fruits and vegetables .....	42.0	41.5	43.0	44.4	-	6.4	5.9	6.7	8.3	-
2033	Frozen fruits and vegetables .....	39.9	39.0	39.6	41.2	-	6.1	4.6	6.1	7.3	-
2037	Grain mill products .....	39.2	39.6	40.2	41.7	-	4.1	3.9	4.9	6.1	-
204	Flour and other grain mill products .....	44.3	44.3	43.7	43.8	-	7.1	7.0	6.3	6.9	-
2041	Prepared feeds, nec .....	46.5	47.4	45.8	47.0	-	8.2	8.6	7.3	8.8	-
2048	Bakery products .....	44.5	44.2	44.4	44.6	-	7.4	6.8	6.6	7.4	-
205	Bread, cake, and related products .....	39.1	38.6	38.8	39.1	-	3.6	3.2	3.2	3.6	-
2051	Cookies and crackers .....	39.0	38.3	38.6	38.8	-	4.1	3.5	3.5	4.0	-
2052	Sugar and confectionery products .....	39.3	39.4	39.4	40.1	-	2.3	2.4	2.3	2.4	-
206	Cane and beet sugar .....	39.8	39.9	39.4	39.4	-	3.3	3.6	3.0	3.1	-
2061-3	Confectionery products .....	39.9	39.7	39.3	40.3	-	4.3	5.0	3.3	3.9	-
2065	Fats and oils .....	39.5	39.9	39.0	38.5	-	2.6	3.0	2.9	2.7	-
207	Beverages .....	43.3	43.5	43.7	43.3	-	6.1	6.0	6.0	5.8	-
208	Malt beverages .....	40.7	40.0	41.1	41.2	-	4.5	4.0	4.3	4.5	-
2082	Bottled and canned soft drinks .....	41.8	41.0	42.0	41.5	-	5.4	4.8	5.5	5.1	-
2086	Misc. foods and kindred products .....	40.5	39.4	41.2	40.7	-	4.3	3.4	4.6	4.4	-
209	Misc. foods and kindred products .....	37.8	37.7	37.1	37.2	-	3.8	3.3	3.1	3.3	-
<b>TOBACCO MANUFACTURES</b>											
21	Cigarettes .....	38.5	37.6	37.6	39.0	38.6	2.2	1.5	1.3	2.2	-
211	Cigarettes .....	38.2	36.6	38.0	38.6	-	2.4	1.3	1.3	2.6	-
<b>TEXTILE MILL PRODUCTS</b>											
22	Weaving mills, cotton .....	40.7	40.3	40.3	40.8	40.8	3.8	3.6	3.5	3.8	-
221	Weaving mills, synthetics .....	40.8	41.3	41.5	42.1	-	3.9	4.1	4.3	4.8	-
222	Weaving and finishing mills, wool .....	42.0	41.9	40.5	41.8	-	4.3	4.2	3.4	4.0	-
223	Narrow fabric mills .....	41.8	40.9	39.6	40.3	-	4.1	4.0	3.3	3.4	-
224	Knitting mills .....	40.1	39.7	39.5	40.0	-	3.0	3.1	2.5	2.3	-
225	Knitting mills .....	38.6	38.3	38.7	38.5	-	2.9	2.7	2.8	2.7	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979P	Oct. 1979P	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979P	Oct. 1979P
<b>TEXTILE MILL PRODUCTS—Continued</b>											
2251	Women's hosiery, except socks	\$152.46	\$153.22	\$166.21	\$162.78	-	\$3.85	\$3.84	\$4.24	\$4.25	-
2252	Hosiery, nec	143.24	141.26	156.11	151.89	-	3.83	3.87	4.13	4.15	-
2253	Knit outerwear mills	148.37	146.80	165.35	169.56	-	4.01	4.00	4.34	4.37	-
2254	Knit underwear mills	142.12	143.25	144.84	144.67	-	3.74	3.75	4.08	4.11	-
2257	Circular knit fabric mills	185.89	184.91	198.21	198.70	-	4.49	4.51	4.87	4.87	-
226	Textile finishing, except wool	199.09	189.88	206.64	217.18	-	4.74	4.70	5.04	5.11	-
2261	Finishing plants, cotton	203.34	194.25	214.76	222.60	-	4.83	4.82	5.20	5.25	-
2262	Finishing plants, synthetics	210.15	201.06	212.49	227.14	-	4.91	4.88	5.17	5.27	-
227	Floor covering mills	195.11	189.28	205.94	205.76	-	4.58	4.55	4.88	4.97	-
228	Yarn and thread mills	170.15	168.90	181.85	186.55	-	4.15	4.16	4.49	4.55	-
2281	Yarn mills, except wool	170.56	168.90	184.01	189.66	-	4.16	4.16	4.51	4.57	-
2282	Throwing and winding mills	166.30	162.78	169.92	173.96	-	3.95	3.98	4.28	4.36	-
229	Miscellaneous textile goods	199.96	198.77	210.53	211.75	-	4.83	4.86	5.16	5.19	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	143.60	142.71	149.88	151.08	\$152.50	4.00	4.02	4.21	4.28	\$4.32
231	Men's and boys' suits and coats	171.59	175.29	182.07	176.81	-	4.74	4.91	5.10	5.11	-
232	Men's and boys' furnishings	129.60	128.88	140.87	142.63	-	3.60	3.60	3.87	3.94	-
2321	Men's and boys' shirts and nightwear	129.15	127.76	138.01	140.87	-	3.50	3.51	3.74	3.87	-
2327	Men's and boys' separate trousers	131.67	131.65	140.94	139.04	-	3.73	3.74	3.97	4.03	-
2328	Men's and boys' work clothing	127.08	126.73	141.73	143.25	-	3.53	3.53	3.81	3.82	-
233	Women's and misses' outerwear	136.06	134.06	141.71	141.57	-	3.99	3.99	4.23	4.29	-
2331	Women's and misses' blouses and waists	128.00	128.00	133.91	132.33	-	3.71	3.71	3.95	4.01	-
2335	Women's and misses' dresses	135.79	132.43	137.49	138.21	-	4.09	4.10	4.31	4.36	-
2337	Women's and misses' suits and coats	149.55	140.38	160.66	158.39	-	4.36	4.28	4.63	4.70	-
2339	Women's and misses' work clothing, nec	133.70	135.14	140.54	142.42	-	3.82	3.85	4.05	4.14	-
234	Women's and children's undergarments	134.29	131.41	142.05	141.57	-	3.61	3.62	3.86	3.90	-
2341	Women's and children's underwear	130.63	128.16	140.23	140.16	-	3.54	3.56	3.79	3.84	-
2342	Brassieres and allied garments	147.84	143.23	147.85	147.38	-	3.86	3.84	4.13	4.14	-
236	Children's outerwear	129.60	126.74	138.24	138.55	-	3.60	3.57	3.84	3.87	-
2361	Children's dresses and blouses	125.32	126.02	133.60	137.25	-	3.55	3.53	3.85	3.75	-
238	Misc. apparel and accessories	143.17	142.03	150.06	151.84	-	3.88	3.87	4.10	4.16	-
239	Misc. fabricated textile products	182.83	183.61	180.03	184.89	-	4.70	4.72	4.75	4.84	-
2391	Curtains and draperies	131.95	129.48	140.62	144.78	-	3.50	3.49	3.77	3.82	-
2392	House furnishing, nec	156.78	157.98	164.51	166.99	-	4.02	4.03	4.24	4.26	-
2396	Automotive and apparel trimmings	311.88	316.92	278.63	291.39	-	7.57	7.60	7.45	7.51	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	287.91	285.90	307.57	312.14	315.74	6.68	6.68	7.22	7.31	7.36
261, 2, 8	Paper and pulp mills	348.53	347.85	378.45	381.33	-	7.66	7.73	8.41	8.55	-
262	Paper mills, except building paper	349.61	350.49	380.91	382.95	-	7.65	7.72	8.39	8.51	-
263	Paperboard mills	350.95	356.80	366.34	385.43	-	7.94	8.00	8.48	8.74	-
264	Misc. converted paper products	244.55	242.54	262.86	264.27	-	5.95	5.93	6.38	6.43	-
2641	Paper coating and glazing	292.07	295.31	310.64	312.77	-	6.84	6.82	7.06	7.19	-
2642	Envelopes	218.90	221.05	233.20	236.40	-	5.50	5.54	5.83	5.91	-
2643	Bags, except textile bags	240.09	235.31	251.30	252.77	-	5.73	5.67	6.07	6.15	-
265	Paperboard containers and boxes	257.05	254.82	267.26	273.23	-	6.02	6.01	6.44	6.49	-
2651	Folding paperboard boxes	272.12	264.12	272.24	274.80	-	6.27	6.20	6.56	6.59	-
2653	Corrugated and solid fiber boxes	271.92	272.16	283.40	293.69	-	6.28	6.30	6.78	6.83	-
2654	Sanitary food containers	232.13	226.55	253.80	258.03	-	5.54	5.58	6.00	6.10	-
27	<b>PRINTING AND PUBLISHING</b>	251.46	249.86	263.03	267.20	263.67	6.60	6.61	6.94	7.05	7.05
271	Newspapers	235.96	234.27	250.88	254.70	-	6.80	6.83	7.23	7.34	-
272	Periodicals	232.25	232.02	240.48	246.28	-	5.94	5.98	6.43	6.55	-
273	Books	236.02	232.26	246.48	246.52	-	5.96	5.91	6.24	6.37	-
2731	Book publishing	226.55	223.47	237.20	235.62	-	5.75	5.73	5.93	6.12	-
2732	Book printing	245.35	241.38	256.74	258.69	-	6.18	6.08	6.60	6.65	-
274	Miscellaneous publishing	209.66	209.20	225.22	223.87	-	5.84	5.86	5.99	6.10	-
275	Commercial printing	269.99	267.63	281.97	286.60	-	6.87	6.88	7.23	7.33	-
2751	Commercial printing, letterpress	252.85	248.18	259.88	264.88	-	6.50	6.48	6.75	6.88	-
2752	Commercial printing, lithographic	279.27	278.24	294.32	299.38	-	7.07	7.08	7.47	7.56	-
276	Manifold business forms	260.00	260.21	276.08	278.80	-	6.25	6.27	6.75	6.80	-
278	Blankbooks and bookbinding	201.85	198.12	202.37	209.67	-	5.11	5.08	5.27	5.39	-
279	Printing trade services	338.13	331.19	345.85	350.74	-	8.67	8.67	9.03	9.11	-
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	299.46	301.98	319.77	323.05	326.34	7.13	7.19	7.65	7.71	7.77
281	Industrial inorganic chemicals	329.52	334.96	348.61	356.59	-	7.79	7.90	8.36	8.47	-
2819	Industrial inorganic chemicals, nec	324.90	328.64	349.42	354.87	-	7.81	7.90	8.44	8.51	-
282	Plastics materials and synthetics	297.22	298.78	310.67	311.58	-	7.01	7.03	7.45	7.49	-
2821	Plastics materials and resins	334.18	336.78	344.82	348.15	-	7.70	7.76	8.21	8.25	-
2824	Organic fibers, noncellulosic	275.70	273.19	290.50	291.28	-	6.58	6.52	7.00	7.07	-
283	Drugs	270.03	270.58	285.36	292.28	-	6.46	6.52	6.96	7.06	-
2834	Pharmaceutical preparations	260.76	262.86	274.16	279.61	-	6.36	6.38	6.82	6.87	-

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				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P
	<b>TEXTILE MILL PRODUCTS—Continued</b>										
2251	Women's hosiery, except socks	39.6	39.9	39.2	38.3	-	3.0	3.1	3.7	3.1	-
2252	Hosiery, nec	37.4	36.5	37.8	36.6	-	2.2	2.3	2.2	1.8	-
2253	Knit outerwear mills	37.0	36.7	38.1	38.8	-	2.1	1.9	2.3	2.5	-
2254	Knit underwear mills	38.0	38.2	35.5	35.2	-	2.0	2.1	1.1	1.0	-
2257	Circular knit fabric mills	41.4	41.0	40.7	40.8	-	4.9	4.6	3.9	4.2	-
226	Textile finishing, except wool	42.0	40.4	41.0	42.5	-	4.5	3.7	3.4	4.3	-
2261	Finishing plants, cotton	42.1	40.3	41.3	42.4	-	4.9	3.8	3.1	4.0	-
2262	Finishing plants, synthetics	42.8	41.2	41.1	43.1	-	4.6	4.2	4.1	4.9	-
227	Floor covering mills	42.6	41.6	42.2	41.4	-	5.0	4.3	5.0	5.1	-
228	Yarn and thread mills	41.0	40.6	40.5	41.0	-	3.8	3.7	3.6	3.9	-
2281	Yarn mills, except wool	41.0	40.6	40.8	41.5	-	3.9	3.8	3.8	4.3	-
2282	Throwing and winding mills	42.1	40.9	38.7	39.9	-	4.2	3.7	3.4	3.2	-
229	Miscellaneous textile goods	41.4	40.9	40.8	40.8	-	4.3	4.2	3.5	3.5	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	35.9	35.5	35.6	35.3	35.3	1.4	1.4	1.1	1.1	-
231	Men's and boys' suits and coats	36.2	35.7	35.7	34.6	-	1.0	1.0	.6	.6	-
232	Men's and boys' furnishings	36.0	35.8	36.4	36.2	-	1.0	1.0	1.1	1.2	-
2321	Men's and boys' shirts and nightwear	36.9	36.4	36.9	36.4	-	1.0	1.1	1.1	1.1	-
2327	Men's and boys' separate trousers	35.3	35.2	35.5	34.5	-	1.0	.7	1.1	1.0	-
2328	Men's and boys' work clothing	36.0	35.9	37.2	37.5	-	1.0	.9	1.2	1.3	-
233	Women's and misses' outerwear	34.1	33.6	33.5	33.0	-	1.3	1.2	1.0	.9	-
2331	Women's and misses' blouses and waists	34.5	34.5	33.9	33.0	-	1.0	1.0	.7	.6	-
2335	Women's and misses' dresses	33.2	32.3	31.9	31.7	-	1.3	1.2	1.0	.9	-
2337	Women's and misses' suits and coats	34.3	32.8	34.7	33.7	-	1.4	.9	1.2	.9	-
2339	Women's and misses' outerwear, nec	35.0	35.1	34.7	34.4	-	1.3	1.4	1.0	1.1	-
234	Women's and children's undergarments	37.2	36.3	36.9	36.3	-	1.5	1.3	1.5	1.4	-
2341	Women's and children's underwear	36.9	36.0	37.0	36.5	-	1.5	1.3	1.5	1.5	-
2342	Brassieres and allied garments	38.3	37.3	35.8	35.6	-	1.3	1.1	1.3	1.2	-
236	Children's outerwear	36.0	35.5	36.0	35.8	-	1.4	1.2	1.8	1.1	-
2361	Children's dresses and blouses	35.3	35.7	34.7	36.6	-	1.7	1.8	1.0	1.0	-
238	Misc. apparel and accessories	36.9	36.7	36.6	36.5	-	1.7	1.7	1.1	1.4	-
239	Misc. fabricated textile products	38.9	38.9	37.9	38.2	-	2.8	2.7	1.6	1.7	-
2391	Curtains and draperies	37.7	37.1	37.3	37.9	-	1.7	1.7	1.1	.9	-
2392	House furnishings, nec	39.0	39.2	38.8	39.2	-	2.3	2.6	2.1	2.8	-
2396	Automotive and apparel trimmings	41.2	41.7	37.4	38.8	-	5.3	5.1	1.5	1.5	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	43.1	42.8	42.6	42.7	42.9	5.6	5.3	5.0	5.2	-
261, 2, 6	Paper and pulp mills	45.5	45.0	45.0	44.6	-	7.3	6.8	6.8	7.0	-
262	Paper mills, except building paper	45.7	45.4	45.4	45.0	-	7.5	7.0	6.9	7.1	-
263	Paperboard mills	44.2	44.6	43.2	44.1	-	7.2	7.4	6.9	7.2	-
264	Misc. converted paper products	41.1	40.9	41.2	41.1	-	4.3	4.0	3.7	3.6	-
2641	Paper coating and glazing	42.7	43.3	44.0	43.5	-	6.1	5.8	5.1	4.8	-
2642	Envelopes	39.8	39.9	40.0	40.0	-	3.5	3.4	3.1	3.2	-
2643	Bags, except textile bags	41.9	41.5	41.4	41.1	-	4.2	3.8	3.5	3.7	-
265	Paperboard containers and boxes	42.7	42.4	41.5	42.1	-	4.8	4.6	3.9	4.3	-
2651	Folding paperboard boxes	43.4	42.6	41.5	41.7	-	5.3	4.9	3.8	3.8	-
2653	Corrugated and solid fiber boxes	43.3	43.2	41.8	43.0	-	5.5	5.2	4.5	5.2	-
2654	Sanitary food containers	41.9	40.6	42.3	42.3	-	3.9	3.1	3.5	3.8	-
27	<b>PRINTING AND PUBLISHING</b>	38.1	37.8	37.9	37.9	37.4	3.5	3.3	3.0	3.2	-
271	Newspapers	34.7	34.3	34.7	34.7	-	2.0	2.2	2.0	2.2	-
272	Periodicals	39.1	38.8	37.4	37.6	-	4.0	3.6	2.1	2.3	-
273	Books	39.6	39.3	39.5	38.7	-	4.2	3.8	3.7	3.3	-
2731	Book publishing	39.4	39.0	40.0	38.5	-	2.4	2.1	2.7	2.0	-
2732	Book printing	39.7	39.7	38.9	38.9	-	6.1	5.6	4.8	4.7	-
274	Miscellaneous publishing	35.9	35.7	37.6	36.7	-	2.1	2.5	2.2	2.2	-
275	Commercial printing	39.3	38.9	39.0	39.1	-	4.2	3.9	3.5	3.8	-
2751	Commercial printing, letterpress	38.9	38.3	38.5	38.5	-	3.8	3.3	3.0	3.3	-
2752	Commercial printing, lithographic	39.5	39.3	39.4	39.6	-	4.4	4.2	3.9	4.1	-
276	Manifold business forms	41.6	41.5	40.9	41.0	-	4.4	4.0	3.4	3.6	-
278	Blankbooks and bookbinding	39.5	39.0	38.4	38.9	-	2.8	2.6	2.1	2.5	-
279	Printing trade service	39.0	38.2	38.3	38.5	-	4.2	3.9	4.1	4.1	-
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	42.0	42.0	41.8	41.9	42.0	3.7	3.7	3.5	3.7	-
281	Industrial inorganic chemicals	42.3	42.4	41.7	42.1	-	4.0	4.0	3.7	4.0	-
2819	Industrial inorganic chemicals, nec	41.6	41.6	41.4	41.7	-	3.6	3.4	3.4	3.7	-
282	Plastics materials and synthetics	42.4	42.5	41.7	41.6	-	3.4	3.4	3.3	3.2	-
2821	Plastics materials and resins	43.4	43.4	42.0	42.2	-	4.8	4.8	4.2	4.2	-
2824	Organic fibers, noncellulosic	41.9	41.9	41.5	41.2	-	2.6	2.2	2.7	2.5	-
283	Drugs	41.8	41.5	41.0	41.4	-	2.9	2.9	2.5	2.8	-
2834	Pharmaceutical preparations	41.0	41.2	40.2	40.7	-	2.8	2.9	2.3	2.8	-

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				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 P	Oct. 1979 P
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	\$275.37	\$273.51	\$296.33	\$296.02	-	\$6.70	\$6.77	\$7.21	\$7.22	-
2841	Soap and other detergents .....	380.16	379.32	424.46	417.56	-	8.64	8.70	9.56	9.49	-
2844	Toilet preparations .....	216.78	212.42	223.26	228.91	-	5.53	5.59	5.71	5.81	-
2842, 3	Polishing, sanitation, and finishing preparations ..	250.51	248.06	260.98	262.51	-	6.14	6.14	6.46	6.53	-
285	Paints and allied products .....	265.37	266.15	280.28	280.17	-	6.41	6.46	6.77	6.85	-
286	Industrial organic chemicals .....	358.24	359.12	394.51	394.51	-	8.37	8.43	9.09	9.09	-
2865	Cyclic crudes and intermediates .....	329.90	322.63	367.16	365.93	-	7.76	7.70	8.46	8.51	-
2861, 9	Gum, wood, and industrial organic chemicals, nec .....	368.51	372.36	404.92	405.92	-	8.59	8.70	9.33	9.31	-
287	Agricultural chemicals .....	289.67	299.75	317.37	326.92	-	6.98	7.02	7.45	7.55	-
289	Miscellaneous chemical products .....	274.23	280.73	294.88	301.18	-	6.64	6.70	7.14	7.24	-
	<b>PETROLEUM AND COAL PRODUCTS</b>										
29	Petroleum refining .....	386.28	385.41	407.66	425.10	\$425.04	8.70	8.70	9.35	9.51	\$9.53
291	Paving and roofing materials .....	409.40	407.09	434.16	455.17	-	9.39	9.38	10.05	10.16	-
295	Reclaimed rubber, and rubber and plastics hose and belting .....	329.69	332.02	340.40	345.04	-	6.84	6.86	7.40	7.60	-
	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b>										
30	Tires and inner tubes .....	231.84	234.58	237.60	243.81	243.82	5.60	5.68	5.94	6.02	6.05
301	Rubber and plastics footwear .....	352.00	362.37	347.49	362.15	-	8.00	8.18	8.58	8.79	-
302	Reclaimed rubber, and rubber and plastics hose and belting .....	147.44	148.61	157.08	158.15	-	3.80	3.84	4.08	4.14	-
303, 4	Fabricated rubber products, nec .....	245.10	238.71	256.67	267.93	-	5.74	5.78	6.17	6.26	-
306	Miscellaneous plastics products .....	217.71	220.99	229.43	231.32	-	5.31	5.39	5.75	5.74	-
307	Miscellaneous plastics products .....	209.41	210.94	218.80	223.82	-	5.12	5.17	5.47	5.54	-
	<b>LEATHER AND LEATHER PRODUCTS</b>										
31	Leather tanning and finishing .....	145.04	145.78	154.45	157.01	156.45	3.92	3.94	4.22	4.29	4.31
311	Footwear, except rubber .....	203.45	202.93	213.38	221.16	-	5.19	5.19	5.63	5.70	-
314	Men's footwear, except athletic .....	137.98	139.85	148.47	151.06	-	3.77	3.79	4.09	4.15	-
3143	Women's footwear, except athletic .....	146.25	148.97	158.84	164.43	-	3.90	3.91	4.27	4.35	-
3144	Luggage .....	131.39	132.10	140.34	140.49	-	3.67	3.69	3.92	3.98	-
316	Handbags and personal leather goods .....	159.89	156.46	160.00	163.80	-	4.23	4.24	4.42	4.55	-
317	Handbags and personal leather goods .....	141.38	137.61	151.53	152.85	-	3.75	3.77	4.03	4.12	-
	<b>TRANSPORTATION AND PUBLIC UTILITIES</b>										
	<b>RAILROAD TRANSPORTATION:</b>										
4011	Class I railroads <sup>2</sup> .....	307.68	311.20	335.30	338.04	336.36	7.75	7.78	8.32	8.43	8.43
	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b>										
41	Local and suburban transportation .....	190.95	194.48	234.75	211.67	-	5.70	5.72	6.26	6.10	-
411	Intercity highway transportation .....	277.09	291.76	290.58	283.31	-	6.91	6.98	7.07	7.03	-
413	Intercity highway transportation .....	304.05	312.42	357.19	365.27	-	8.33	8.20	9.02	9.39	-
	<b>TRUCKING AND WAREHOUSING</b>										
42	Trucking and trucking terminals .....	321.17	321.57	338.89	342.45	-	7.93	7.94	8.43	8.54	-
421, 3	Public warehousing .....	327.65	329.27	345.77	348.87	-	8.09	8.11	8.58	8.70	-
422	Public warehousing .....	223.97	219.29	231.60	239.16	-	5.67	5.58	6.00	6.07	-
46	PIPE LINES, EXCEPT NATURAL GAS	372.54	368.40	395.93	415.53	-	8.87	8.92	9.36	9.87	-
	<b>COMMUNICATION</b>										
48	Telephone communication .....	305.92	302.91	328.43	334.51	-	7.61	7.63	8.17	8.28	-
481	Switchboard operating employees <sup>3</sup> .....	481	318.27	313.98	343.48	352.19	-	7.82	7.83	8.46	8.59
4817	Line construction employees <sup>4</sup> .....	227.74	222.33	231.74	236.81	-	6.47	6.52	6.98	7.09	
4818	Radio and television broadcasting .....	437.81	426.82	475.64	488.72	-	9.58	9.57	10.34	10.51	
483	Radio and television broadcasting .....	254.39	258.55	264.27	267.26	-	6.73	6.84	6.90	6.96	
	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>										
49	Electric services .....	324.79	326.93	341.95	353.20	-	7.77	7.84	8.22	8.47	
491	Gas production and distribution .....	330.36	328.97	349.87	359.50	-	7.81	7.87	8.35	8.58	
492	Combination utility services .....	292.41	302.91	307.34	315.46	-	7.22	7.37	7.57	7.77	
493	Sanitary services .....	363.32	365.43	379.54	402.05	-	8.63	8.68	9.08	9.46	
495	Sanitary services .....	272.21	272.64	279.89	287.02	-	6.39	6.40	6.68	6.85	
	<b>WHOLESALE AND RETAIL TRADE</b>										
	<b>WHOLESALE TRADE</b>										
50, 51	Wholesale trade—durable goods .....	155.80	157.11	167.99	167.24	166.54	4.75	4.79	5.06	5.13	5.14
50	Motor vehicles and automotive equipment .....	234.39	235.95	249.35	252.59	251.94	6.01	6.05	6.41	6.51	6.51
501	Furniture and home furnishings .....	236.79	239.55	252.55	255.19	-	6.01	6.08	6.41	6.51	
501	Lumber and construction materials .....	215.39	217.70	230.27	231.72	-	5.58	5.64	5.95	6.05	
502	Sporting goods, toys, and hobby goods .....	203.74	206.72	227.46	225.82	-	5.39	5.44	5.97	5.99	
503	Sporting goods, toys, and hobby goods .....	244.40	244.19	256.61	261.76	-	6.11	6.12	6.48	6.61	
504	Sporting goods, toys, and hobby goods .....	229.89	230.49	244.94	247.30	-	6.12	6.13	6.48	6.63	

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979p	Oct. 1979 p	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 P
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	41.1	40.4	41.1	41.0	-	3.8	3.4	3.1	3.3	-
2841	Soap and other detergents .....	44.0	43.6	44.4	44.0	-	5.8	5.5	5.1	5.1	-
2844	Toilet preparations .....	39.2	38.0	39.1	39.4	-	2.6	1.8	1.7	2.3	-
2842, 3	Polishing, sanitation, and finishing preparations .....	40.8	40.4	40.4	40.2	-	3.5	3.5	2.8	2.9	-
285	Paints and allied products .....	41.4	41.2	41.4	40.9	-	4.0	3.5	3.1	3.0	-
286	Industrial organic chemicals .....	42.8	42.6	43.4	43.4	-	4.3	3.9	4.6	4.6	-
2865	Cyclic crudes and intermediates .....	42.5	41.9	43.4	43.0	-	5.0	3.9	4.5	4.6	-
2861, 9	Gum, wood, and industrial organic chemicals, nec .....	42.9	42.8	43.4	43.6	-	4.1	3.9	4.6	4.6	-
287	Agricultural chemicals .....	41.5	42.7	42.6	43.3	-	4.8	5.4	4.7	5.2	-
289	Miscellaneous chemical products .....	41.3	41.9	41.3	41.6	-	3.6	3.8	3.7	4.0	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	44.4	44.3	43.6	44.7	44.6	4.7	4.7	4.4	4.9	-
291	Petroleum refining .....	43.6	43.4	43.2	44.8	-	3.7	1.7	3.6	4.2	-
295	Paving and roofing materials .....	48.2	48.4	46.0	45.4	-	9.0	8.9	7.9	8.2	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	41.4	41.3	40.0	40.5	40.3	4.0	4.0	3.2	3.3	-
301	Tires and inner tubes .....	44.0	44.3	40.5	41.2	-	5.8	6.1	3.5	3.9	-
302	Rubber and plastics footwear .....	38.8	38.7	38.5	38.2	-	2.5	2.3	2.4	2.3	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting .....	42.7	41.3	41.6	42.8	-	4.9	4.4	4.2	4.0	-
306	Fabricated rubber products, nec .....	41.0	41.0	39.9	40.3	-	3.7	3.6	2.7	3.0	-
307	Miscellaneous plastics products .....	40.9	40.8	40.0	40.4	-	3.7	3.7	3.2	3.3	-
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	37.0	37.0	36.6	36.6	36.3	1.8	1.7	1.5	1.8	-
311	Leather tanning and finishing .....	39.2	39.1	37.9	38.8	-	2.8	2.8	2.1	2.4	-
314	Footwear, except rubber .....	36.6	36.9	36.3	36.4	-	1.5	1.4	1.5	1.8	-
3143	Men's footwear, except athletic .....	37.5	38.1	37.2	37.8	-	1.5	1.3	1.4	1.9	-
3144	Women's footwear, except athletic .....	35.8	35.8	35.8	35.3	-	1.8	1.6	1.7	2.0	-
318	Luggage .....	37.8	36.9	36.2	36.0	-	2.7	2.0	.6	1.8	-
317	Handbags and personal leather goods .....	37.7	36.5	37.6	37.1	-	2.5	2.2	2.1	2.1	-
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	39.7	40.0	40.3	40.1	39.9	-	-	-	-	-
4011	<b>RAILROAD TRANSPORTATION:</b> Class I railroads <sup>2</sup> .....	40.5	44.1	44.5	(*)	-	-	-	-	-	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	33.5	34.0	37.5	34.7	-	-	-	-	-	-
411	Local and suburban transportation .....	40.1	41.8	41.1	40.3	-	-	-	-	-	-
413	Intercity highway transportation .....	36.5	38.1	39.6	38.9	-	-	-	-	-	-
42	<b>TRUCKING AND WAREHOUSING</b> .....	40.5	40.5	40.2	40.1	-	-	-	-	-	-
421, 3	Trucking and trucking terminals .....	40.5	40.6	40.3	40.1	-	-	-	-	-	-
422	Public warehousing .....	39.5	39.3	38.6	39.4	-	-	-	-	-	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	42.0	41.3	42.3	42.1	-	-	-	-	-	-
48	<b>COMMUNICATION</b> .....	40.2	39.7	40.2	40.4	-	-	-	-	-	-
481	Telephone communication .....	40.7	40.1	40.6	41.0	-	-	-	-	-	-
4817	Switchboard operating employees <sup>3</sup> .....	35.2	34.1	33.2	33.4	-	-	-	-	-	-
4818	Line construction employees <sup>4</sup> .....	45.7	44.6	46.0	46.5	-	-	-	-	-	-
483	Radio and television broadcasting .....	37.8	37.8	38.3	38.4	-	-	-	-	-	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....	41.8	41.7	41.6	41.7	-	-	-	-	-	-
491	Electric services .....	42.3	41.8	41.9	41.9	-	-	-	-	-	-
492	Gas production and distribution .....	40.5	41.1	40.6	40.6	-	-	-	-	-	-
493	Combination utility services .....	42.1	42.1	41.8	42.5	-	-	-	-	-	-
495	Sanitary services .....	42.6	42.6	41.9	41.9	-	-	-	-	-	-
-	<b>WHOLESALE AND RETAIL TRADE</b> .....	32.8	32.8	33.2	32.6	32.4	-	-	-	-	-
50, 51	<b>WHOLESALE TRADE</b> .....	39.0	39.0	38.9	38.8	38.7	-	-	-	-	-
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	39.4	39.4	39.4	39.2	-	-	-	-	-	-
501	Motor vehicles and automotive equipment .....	38.6	38.6	38.7	38.3	-	-	-	-	-	-
502	Furniture and home furnishings .....	37.8	38.0	38.1	37.7	-	-	-	-	-	-
503	Lumber and construction materials .....	40.0	39.9	39.6	39.6	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods .....	37.4	37.6	37.8	37.3	-	-	-	-	-	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979P	Oct. 1979P	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979P	Oct. 1979P
	<b>WHOLESALE TRADE-DURABLE GOODS—Continued</b>										
505	Metals and minerals, except petroleum .....	\$269.60	\$272.55	\$300.92	\$300.35	-	\$6.86	\$6.90	\$7.43	\$7.49	-
506	Electrical goods .....	238.55	242.26	254.37	260.74	-	6.07	6.18	6.59	6.72	-
507	Hardware, plumbing, and heating equipment .....	221.76	222.53	236.69	240.63	-	5.76	5.78	6.18	6.25	-
508	Machinery, equipment, and supplies .....	252.05	254.47	264.92	268.13	-	6.27	6.33	6.59	6.72	-
509	Miscellaneous durable goods .....	202.54	202.40	215.52	215.83	-	5.18	5.23	5.47	5.52	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> .....	229.80	230.57	245.89	248.57	-	6.00	6.02	6.42	6.49	-
511	Paper and paper products .....	262.79	265.72	276.35	279.59	-	7.18	7.32	7.53	7.66	-
512	Drugs, proprietaries, and sundries .....	238.08	238.13	245.53	253.37	-	6.20	6.25	6.53	6.65	-
513	Apparel, piece goods, and notions .....	203.32	204.05	229.43	223.74	-	5.54	5.56	5.99	6.08	-
514	Groceries and related products .....	232.16	231.72	249.23	252.46	-	6.03	6.05	6.44	6.49	-
516	Chemicals and allied products .....	268.62	271.55	293.19	302.57	-	6.87	6.84	7.53	7.66	-
517	Petroleum and petroleum products .....	281.16	294.01	304.90	308.51	-	7.10	7.19	7.68	7.85	-
518	Beer, wine, and distilled beverages .....	268.46	262.26	274.16	276.39	-	7.14	7.05	7.37	7.47	-
519	Miscellaneous nondurable goods .....	189.05	190.58	202.37	204.98	-	4.91	4.95	5.27	5.38	-
52-59	<b>RETAIL TRADE</b> .....	131.33	132.13	141.93	140.61	\$139.54	4.25	4.29	4.52	4.58	\$4.59
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	183.16	181.92	194.93	195.19	-	4.82	4.80	5.05	5.15	-
521	Lumber and other building materials .....	202.00	201.60	214.77	216.00	-	5.05	5.04	5.29	5.40	-
525	Hardware stores .....	137.36	136.46	150.23	146.79	-	3.97	3.99	4.28	4.33	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	119.02	119.19	133.32	131.42	-	4.09	4.11	4.40	4.44	-
531	Department stores .....	123.68	123.83	139.38	136.88	-	4.25	4.27	4.60	4.64	-
533	Variety stores .....	97.47	97.41	109.74	106.92	-	3.42	3.43	3.61	3.60	-
539	Misc. general merchandise stores .....	94.96	94.29	103.06	105.85	-	3.23	3.24	3.52	3.54	-
54	<b>FOOD STORES</b> .....	170.45	169.38	183.71	182.02	-	5.31	5.36	5.67	5.76	-
541	Grocery stores .....	177.55	176.09	190.64	189.44	-	5.48	5.52	5.83	5.92	-
546	Retail bakeries .....	115.24	116.51	133.02	130.97	-	3.96	3.99	4.39	4.47	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	186.63	188.75	205.52	204.12	-	4.99	5.02	5.38	5.40	-
551, 2	New and used car dealers .....	229.58	232.76	244.53	243.42	-	6.01	6.03	6.27	6.29	-
553	Auto and home supply stores .....	184.13	183.19	200.41	197.47	-	4.48	4.49	4.90	4.90	-
554	Gasoline service stations .....	128.06	130.59	146.88	144.79	-	3.68	3.71	4.08	4.09	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	111.59	112.60	118.21	116.35	-	3.77	3.83	3.98	4.04	-
561	Men's and boys' clothing and furnishings .....	139.02	140.83	150.35	143.46	-	4.26	4.32	4.57	4.54	-
562	Women's ready-to-wear stores .....	96.88	97.65	104.99	103.88	-	3.46	3.50	3.71	3.75	-
565	Family clothing stores .....	109.91	109.20	112.60	110.09	-	3.58	3.64	3.83	3.89	-
566	Shoe stores .....	124.20	124.68	123.49	124.99	-	4.21	4.27	4.13	4.31	-
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	173.46	172.83	184.93	184.45	-	4.90	4.91	5.18	5.24	-
571	Furniture and home furnishings .....	176.75	176.59	189.92	189.56	-	5.05	5.06	5.32	5.37	-
572	Household appliance stores .....	186.53	184.26	199.84	193.64	-	5.07	5.09	5.49	5.47	-
573	Radio, television, and music stores .....	156.72	155.23	163.19	166.12	-	4.39	4.41	4.61	4.76	-
58	<b>EATING AND DRINKING PLACES<sup>5</sup></b> .....	88.35	88.56	93.98	92.30	-	3.26	3.28	3.43	3.47	-
59	<b>MISCELLANEOUS RETAIL</b> .....	133.22	133.66	147.27	145.28	-	4.15	4.19	4.49	4.54	-
591	Drug stores and proprietary stores .....	120.67	119.95	133.22	131.66	-	3.88	3.92	4.15	4.22	-
594	Miscellaneous shopping goods stores .....	121.20	120.98	134.30	129.32	-	3.86	3.89	4.21	4.24	-
596	Nonstore retailers .....	166.41	164.70	183.60	184.34	-	4.88	4.83	5.40	5.47	-
598	Fuel and ice dealers .....	205.52	216.61	222.53	225.23	-	5.38	5.54	5.75	5.82	-
599	Retail stores, nec .....	135.24	131.88	153.23	153.79	-	4.20	4.20	4.52	4.55	-
-	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>6</sup></b> .....	180.91	183.73	191.50	195.29	195.47	4.97	5.02	5.29	5.38	5.37
60	<b>BANKING</b> .....	155.92	157.01	164.08	167.54	-	4.26	4.29	4.52	4.59	-
602	Commercial and stock savings banks .....	152.62	153.72	161.09	165.43	-	4.17	4.20	4.45	4.52	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	163.60	166.42	172.49	175.54	-	4.47	4.51	4.70	4.77	-
612	Savings and loan associations .....	154.21	158.34	164.26	168.17	-	4.26	4.35	4.55	4.62	-
614	Personal credit institutions .....	160.31	162.80	169.00	171.22	-	4.38	4.40	4.58	4.64	-
63	<b>INSURANCE CARRIERS</b> .....	196.42	198.97	212.58	214.44	-	5.28	5.32	5.73	5.78	-
631	Life insurance .....	194.99	196.31	209.72	208.78	-	5.27	5.32	5.73	5.72	-
632	Medical service and health insurance .....	188.38	191.52	208.10	210.94	-	5.01	5.04	5.52	5.61	-
633	Fire, marine, and casualty insurance .....	199.23	202.17	213.86	217.19	-	5.37	5.42	5.78	5.87	-

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 payroll by industry—Continued

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p
	<b>WHOLESALE TRADE-DURABLE GOODS—Continued</b>										
505	Metals and minerals, except petroleum .....	39.3	39.5	40.5	40.1	-	-	-	-	-	-
506	Electrical goods .....	39.3	39.2	38.6	38.8	-	-	-	-	-	-
507	Hardware, plumbing, and heating equipment .....	38.5	38.5	38.3	38.5	-	-	-	-	-	-
508	Machinery, equipment, and supplies .....	40.2	40.2	40.2	39.9	-	-	-	-	-	-
509	Miscellaneous durable goods .....	39.1	38.7	39.4	39.1	-	-	-	-	-	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS ..</b>	38.3	38.3	38.3	38.3	-	-	-	-	-	-
511	Paper and paper products .....	36.6	36.3	36.7	36.5	-	-	-	-	-	-
512	Drugs, proprietaries, and sundries .....	38.4	38.1	37.6	38.1	-	-	-	-	-	-
513	Apparel, piece goods, and notions .....	36.7	36.7	36.8	36.8	-	-	-	-	-	-
514	Groceries and related products .....	38.5	38.3	38.7	38.9	-	-	-	-	-	-
516	Chemicals and allied products .....	39.1	39.7	39.6	39.5	-	-	-	-	-	-
517	Petroleum and petroleum products .....	39.6	39.5	39.7	39.3	-	-	-	-	-	-
518	Beer, wine, and distilled beverages .....	37.6	37.2	37.2	37.0	-	-	-	-	-	-
519	Miscellaneous nondurable goods .....	38.3	38.5	38.4	38.1	-	-	-	-	-	-
52-59	<b>RETAIL TRADE .....</b>	30.9	30.8	31.4	30.7	30.4	-	-	-	-	-
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b>										
521	Lumber and other building materials .....	40.0	40.0	40.6	40.0	-	-	-	-	-	-
525	Hardware stores .....	34.6	34.2	35.1	33.9	-	-	-	-	-	-
53	<b>GENERAL MERCHANDISE STORES .....</b>	29.1	29.0	30.3	29.6	-	-	-	-	-	-
531	Department stores .....	29.1	29.0	30.3	29.5	-	-	-	-	-	-
533	Variety stores .....	28.5	28.4	30.4	29.7	-	-	-	-	-	-
539	Misc. general merchandise stores .....	29.4	29.1	30.7	29.9	-	-	-	-	-	-
54	<b>FOOD STORES .....</b>	32.1	31.6	32.4	31.6	-	-	-	-	-	-
541	Grocery stores .....	32.4	31.9	32.7	32.0	-	-	-	-	-	-
546	Retail bakeries .....	29.1	29.2	30.3	29.3	-	-	-	-	-	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b>										
551, 2	New and used car dealers .....	37.4	37.6	38.2	37.8	-	-	-	-	-	-
553	Auto and home supply stores .....	38.2	38.6	39.0	38.7	-	-	-	-	-	-
554	Gasoline service stations .....	41.1	40.8	40.9	40.3	-	-	-	-	-	-
		34.8	35.2	36.0	35.4	-	-	-	-	-	-
56	<b>APPAREL AND ACCESSORY STORES .....</b>	29.6	29.4	29.7	28.8	-	-	-	-	-	-
561	Men's and boys' clothing and furnishings .....	32.4	32.6	32.9	31.6	-	-	-	-	-	-
562	Women's ready-to-wear stores .....	28.0	27.9	28.3	27.7	-	-	-	-	-	-
565	Family clothing stores .....	30.7	30.0	29.4	28.3	-	-	-	-	-	-
566	Shoe stores .....	29.5	29.2	29.9	29.0	-	-	-	-	-	-
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b>										
571	Furniture and home furnishings .....	35.4	35.2	35.7	35.2	-	-	-	-	-	-
572	Household appliance stores .....	35.0	34.9	35.7	35.3	-	-	-	-	-	-
573	Radio, television, and music stores .....	36.8	36.2	36.4	35.4	-	-	-	-	-	-
		35.7	35.2	35.4	34.9	-	-	-	-	-	-
58	<b>EATING AND DRINKING PLACES <sup>5</sup> .....</b>	27.1	27.0	27.4	26.6	-	-	-	-	-	-
59	<b>MISCELLANEOUS RETAIL .....</b>	32.1	31.9	32.8	32.0	-	-	-	-	-	-
591	Drug stores and proprietary stores .....	32.1	30.6	32.1	31.2	-	-	-	-	-	-
594	Miscellaneous shopping goods stores .....	31.4	31.1	31.9	30.5	-	-	-	-	-	-
596	Nonstore retailers .....	34.1	34.1	34.0	33.7	-	-	-	-	-	-
598	Fuel and ice dealers .....	38.2	39.1	38.7	38.7	-	-	-	-	-	-
599	Retail stores, nec .....	32.2	31.4	33.9	33.8	-	-	-	-	-	-
-	<b>FINANCE, INSURANCE, AND REAL ESTATE <sup>6</sup> .....</b>	36.4	36.6	36.2	36.3	36.4	-	-	-	-	-
80	<b>BANKING .....</b>	36.6	36.6	36.3	36.5	-	-	-	-	-	-
602	Commercial and stock savings banks .....	36.6	36.6	36.2	36.6	-	-	-	-	-	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS .....</b>	36.6	36.9	36.7	36.8	-	-	-	-	-	-
612	Savings and loan associations .....	36.2	36.4	36.1	36.4	-	-	-	-	-	-
614	Personal credit institutions .....	36.6	37.0	36.9	36.9	-	-	-	-	-	-
63	<b>INSURANCE CARRIERS .....</b>	37.2	37.4	37.1	37.1	-	-	-	-	-	-
631	Life insurance .....	37.0	36.9	36.6	36.5	-	-	-	-	-	-
632	Medical service and health insurance .....	37.6	38.0	37.7	37.6	-	-	-	-	-	-
633	Fire, marine, and casualty insurance .....	37.1	37.3	37.0	37.0	-	-	-	-	-	-

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				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p
-	<b>SERVICES</b> .....	\$165.14	\$167.10	\$175.96	\$178.22	\$177.78	\$5.05	\$5.11	\$5.30	\$5.45	\$5.47
	<b>HOTELS AND OTHER LODGING PLACES:</b>										
701	Hotels, motels, and tourist courts .....	114.50	116.55	125.05	126.05	-	3.67	3.70	3.92	4.04	-
	<b>PERSONAL SERVICES:</b>										
721	Laundry, cleaning, and garment services .....	130.79	132.21	142.07	142.35	-	3.78	3.81	4.13	4.15	-
723	Beauty shops .....	119.45	119.45	127.10	130.00	-	3.78	3.78	4.14	4.18	-
	<b>BUSINESS SERVICES</b> .....										
73	Advertising .....	167.89	169.52	180.51	179.85	-	5.15	5.20	5.47	5.50	-
731	Advertising .....	259.56	259.52	271.21	277.39	-	7.19	7.29	7.41	7.77	-
734	Services to buildings .....	122.40	124.85	129.33	128.38	-	4.50	4.59	4.72	4.72	-
737	Computer and data processing services .....	216.22	219.49	235.52	235.43	-	5.94	6.03	6.40	6.45	-
	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....										
75	Automotive repair shops .....	190.32	190.46	217.54	216.02	-	5.13	5.12	5.68	5.73	-
753	Automotive repair shops .....	214.34	214.40	238.60	237.34	-	5.51	5.54	6.01	6.07	-
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	251.32	251.94	262.92	262.80	-	6.10	6.16	6.46	6.57	-
	<b>MOTION PICTURES</b> .....										
78	Motion picture production and services .....	183.48	197.18	194.94	200.74	-	6.60	7.17	6.84	7.38	-
781	Motion picture production and services .....	368.24	388.58	397.45	404.91	-	9.54	10.28	10.27	10.49	-
79	<b>AMUSEMENT AND RECREATION SERVICES</b> ..	145.66	150.61	158.27	153.92	-	4.76	4.89	4.84	5.20	-
	<b>HEALTH SERVICES</b> .....										
80	Offices of physicians .....	161.35	161.53	171.79	174.11	-	4.86	4.88	5.19	5.26	-
801	Offices of physicians .....	169.50	168.81	174.95	178.85	-	5.09	5.10	5.35	5.52	-
802	Offices of dentists .....	135.78	138.36	148.38	150.74	-	4.65	4.69	5.17	5.18	-
805	Nursing and personal care facilities .....	111.91	112.53	119.58	121.91	-	3.61	3.63	3.87	3.92	-
806	Hospitals .....	177.33	176.64	190.10	191.95	-	5.17	5.18	5.51	5.58	-
81	<b>LEGAL SERVICES</b> .....	212.02	219.30	230.86	235.25	-	6.31	6.45	6.77	6.96	-
	<b>MISCELLANEOUS SERVICES</b> .....										
89	Engineering and architectural services .....	277.40	282.34	293.38	298.96	-	7.30	7.43	7.66	7.93	-
891	Engineering and architectural services .....	299.54	302.23	315.87	322.10	-	7.72	7.85	8.12	8.41	-
893	Accounting, auditing, and bookkeeping .....	236.86	245.05	255.15	258.91	-	6.35	6.50	6.75	6.96	-

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

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

<sup>3</sup> 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.

<sup>4</sup> 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.

<sup>5</sup> Money payments only; tips, not included.

<sup>6</sup> Data for nonoffice sales agents excluded from all series in this division.

\* Not available.

p = preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in the October issue for additional information, and the November Supplement for revised data.

## 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				
		Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979
-	<b>SERVICES .....</b>	32.7	32.7	33.2	32.7	32.5	-	-	-	-	-
701	<b>HOTELS AND OTHER LODGING PLACES:</b> Hotels, motels, and tourist courts .....	31.2	31.5	31.9	31.2	-	-	-	-	-	-
	<b>PERSONAL SERVICES:</b>										
721	Laundry, cleaning, and garment services .....	34.6	34.7	34.4	34.3	-	-	-	-	-	-
723	Beauty shops .....	31.6	31.6	30.7	31.1	-	-	-	-	-	-
73	<b>BUSINESS SERVICES .....</b>	32.6	32.6	33.0	32.7	-	-	-	-	-	-
731	Advertising .....	36.1	35.6	36.6	35.7	-	-	-	-	-	-
734	Services to buildings .....	27.2	27.2	27.4	27.2	-	-	-	-	-	-
737	Computer and data processing services .....	36.4	36.4	36.8	36.5	-	-	-	-	-	-
75	<b>AUTO REPAIR, SERVICES, AND GARAGES .....</b>	37.1	37.2	38.3	37.7	-	-	-	-	-	-
753	Automotive repair shops .....	38.9	38.7	39.7	39.1	-	-	-	-	-	-
76	<b>MISCELLANEOUS REPAIR SERVICES .....</b>	41.2	40.9	40.7	40.0	-	-	-	-	-	-
78	<b>MOTION PICTURES .....</b>	27.8	27.5	28.5	27.2	-	-	-	-	-	-
781	Motion picture production and services .....	38.6	37.8	38.7	38.6	-	-	-	-	-	-
79	<b>AMUSEMENT AND RECREATION SERVICES .....</b>	30.6	30.8	32.7	29.6	-	-	-	-	-	-
80	<b>HEALTH SERVICES .....</b>	33.2	33.1	33.1	33.1	-	-	-	-	-	-
801	Offices of physicians .....	33.3	33.1	32.7	32.4	-	-	-	-	-	-
802	Offices of dentists .....	29.2	29.5	28.7	29.1	-	-	-	-	-	-
805	Nursing and personal care facilities .....	31.0	31.0	30.9	31.1	-	-	-	-	-	-
806	Hospitals .....	34.3	34.1	34.5	34.4	-	-	-	-	-	-
81	<b>LEGAL SERVICES .....</b>	33.6	34.0	34.1	33.8	-	-	-	-	-	-
89	<b>MISCELLANEOUS SERVICES .....</b>	38.0	38.0	38.3	37.7	-	-	-	-	-	-
891	Engineering and architectural services .....	38.8	38.5	38.9	38.3	-	-	-	-	-	-
893	Accounting, auditing, and bookkeeping .....	37.3	37.7	37.8	37.2	-	-	-	-	-	-

# 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
<b>Executive Branch</b>													
Total employment .....	2,760.3	2,738.5	2,691.9	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
<b>Department of Defense</b>													
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
<b>Postal Service</b>													
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
<b>Other Agencies</b>													
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 <sup>1</sup>				
	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979 p	Oct. 1979 p
<b>MANUFACTURING</b> .....	\$5.99	\$6.04	\$6.42	\$6.51	\$6.55
<b>DURABLE GOODS</b> .....	6.39	6.44	6.84	6.93	6.97
Lumber and wood products .....	5.48	5.49	5.95	6.02	-
Furniture and fixtures .....	4.59	4.62	4.96	5.01	-
Stone, clay, and glass products .....	6.10	6.12	6.53	6.59	-
Primary metal industries .....	8.00	8.01	8.70	8.75	-
Fabricated metal products .....	6.14	6.19	6.56	6.64	-
Machinery, except electrical .....	6.54	6.61	7.04	7.14	-
Electric and electronic equipment .....	5.71	5.74	6.16	6.24	-
Transportation equipment .....	7.55	7.70	8.05	8.19	-
Instruments and related products .....	5.58	5.60	5.96	6.01	-
Miscellaneous manufacturing industries .....	4.58	4.60	4.89	4.90	-
<b>NONDURABLE GOODS</b> .....	5.38	5.42	5.80	5.86	5.90
Food and kindred products .....	5.56	5.60	5.95	5.98	-
Tobacco manufactures .....	5.76	5.71	6.48	6.36	-
Textile mill products .....	4.22	4.23	4.57	4.60	-
Apparel and other textile products .....	3.92	3.94	4.15	4.21	-
Paper and allied products .....	6.27	6.29	6.82	6.90	-
Printing and publishing .....	6.31	6.33	6.68	6.77	-
Chemicals and allied products .....	6.83	6.89	7.34	7.39	-
Petroleum and coal products .....	8.26	8.26	8.90	9.02	-
Rubber and misc. plastics products .....	5.34	5.41	5.72	5.78	-
Leather and leather products .....	3.83	3.85	4.14	4.18	-

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

p = preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in the October issue for additional information, and the November Supplement for revised data.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-5. Gross and spendable average weekly earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls by industry division, in current and 1967 dollars**

Industry	Gross average weekly earnings			Spendable average weekly earnings <sup>2</sup>					
				Worker with no dependents			Married worker with 3 dependents		
	Sept. 1978	Aug. 1979	Sept. 1979 P	Sept. 1978	Aug. 1979	Sept. 1979 P	Sept. 1978	Aug. 1979	Sept. 1979 P
<b>TOTAL PRIVATE:</b>									
Current dollars .....	\$208.94	\$222.84	\$225.54	\$169.16	\$180.13	\$182.10	\$184.64	\$197.11	\$199.15
1967 dollars .....	104.94	100.60	100.82	84.96	81.32	81.40	92.74	88.99	89.03
<b>MINING:</b>									
Current dollars .....	345.83	365.49	371.93	260.81	275.65	279.65	286.16	303.54	308.24
1967 dollars .....	173.70	165.01	166.26	130.99	124.45	125.01	143.73	137.04	137.79
<b>CONSTRUCTION:</b>									
Current dollars .....	332.11	354.16	360.05	251.84	269.41	272.17	275.95	295.29	299.58
1967 dollars .....	166.81	159.89	160.95	126.49	121.18	121.67	138.60	133.31	133.92
<b>MANUFACTURING:</b>									
Current dollars .....	255.60	267.60	274.04	201.63	211.52	215.89	219.65	231.06	235.94
1967 dollars .....	128.38	120.81	122.50	101.27	95.49	96.51	110.32	104.32	105.47
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>									
Current dollars* .....	307.68	335.30	338.04	236.10	256.37	258.12	258.38	291.54	283.54
1967 dollars** .....	154.54	151.38	151.11	118.58	115.74	115.39	129.77	127.11	126.75
<b>WHOLESALE AND RETAIL TRADE:</b>									
Current dollars .....	155.80	167.99	167.24	130.44	139.86	139.30	143.77	157.13	156.63
1967 dollars .....	78.25	75.84	74.76	65.51	63.14	62.27	72.21	70.94	70.02
<b>FINANCE, INSURANCE, AND REAL ESTATE:</b>									
Current dollars .....	180.91	191.50	195.29	148.99	157.30	160.06	163.33	172.80	175.65
1967 dollars .....	90.86	86.46	87.30	74.93	71.02	71.55	82.03	79.01	78.52
<b>SERVICES:</b>									
Current dollars .....	165.14	175.96	179.22	137.44	145.83	147.52	151.07	162.50	164.03
1967 dollars .....	82.94	79.44	79.67	69.03	65.84	65.95	75.88	73.36	73.33
<b>CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)</b> .....	199.1	221.5	223.7						

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

p=preliminary (applicable to earnings data only).

<sup>2</sup> 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.

\* Corrected current dollar data for July 1979 are: \$327.60, \$251.45, and \$275.93.

\*\* Corrected 1967 dollar data for July 1979 are: \$149.32, \$114.61, and \$125.77.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in the October issue for additional information, and the November Supplement for revised data.

# ESTABLISHMENT DATA HOURS AND EARNINGS

## C-6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry division and major manufacturing group

[1987=100]

Industry division and group	Sept. 1978	Oct. 1978	Aug. 1979	Sept. <sup>p</sup> 1979 <sup>p</sup>	Oct. <sup>p</sup> 1979 <sup>p</sup>
	Hours				
TOTAL PRIVATE.....	124.2	124.5	128.2	127.6	127.4
GOODS-PRODUCING.....	111.0	111.1	111.7	113.2	112.5
MINING.....	149.6	150.3	159.5	159.7	158.2
CONSTRUCTION.....	136.0	138.2	150.6	147.5	145.7
MANUFACTURING.....	105.3	104.9	103.2	105.4	105.0
DURABLE GOODS.....	107.5	108.0	104.6	108.1	107.8
Lumber and wood products.....	116.3	116.8	118.0	118.0	117.0
Furniture and fixtures.....	110.9	111.9	105.4	107.2	109.0
Stone, clay, and glass products.....	114.7	115.3	115.3	114.5	113.2
Primary metal industries.....	98.0	97.2	95.4	96.6	94.1
Fabricated metal products.....	106.2	106.5	104.5	107.2	107.6
Machinery, except electrical.....	111.3	112.1	113.4	117.6	114.9
Electric and electronic equipment.....	104.5	104.9	104.1	108.2	109.8
Transportation equipment.....	103.6	104.9	89.1	97.9	98.6
Instruments and related products.....	124.7	124.9	126.7	127.6	129.0
Miscellaneous manufacturing industries.....	106.0	107.5	102.9	105.1	106.0
NONDURABLE GOODS.....	102.1	100.4	101.0	101.5	101.0
Food and kindred products.....	105.6	100.1	104.9	106.1	101.2
Tobacco manufactures.....	83.0	82.1	72.8	80.1	80.7
Textile mill products.....	92.1	91.0	90.0	90.9	91.3
Apparel and other textile products.....	93.6	92.5	89.2	88.7	89.7
Paper and allied products.....	101.0	99.3	104.0	103.5	104.1
Printing and publishing.....	100.1	100.3	104.8	105.2	105.1
Chemicals and allied products.....	107.7	107.3	108.5	108.3	109.3
Petroleum and coal products.....	125.8	125.3	127.9	130.6	134.0
Rubber and misc. plastics products.....	150.4	151.3	145.6	147.0	147.6
Leather and leather products.....	70.5	70.1	65.9	65.1	64.4
SERVICE-PRODUCING.....	133.3	133.7	139.6	137.7	137.8
TRANSPORTATION AND PUBLIC UTILITIES.....	110.6	112.3	116.7	116.9	116.8
WHOLESALE AND RETAIL TRADE.....	129.9	129.0	132.6	130.8	130.9
WHOLESALE TRADE.....	129.4	130.4	134.0	133.4	134.4
RETAIL TRADE.....	128.6	128.5	132.0	129.8	129.6
FINANCE, INSURANCE, AND REAL ESTATE.....	141.1	142.0	148.6	146.7	147.9
SERVICES.....	147.6	147.8	157.2	154.3	154.1

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

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in the October issue for additional information, and the November Supplement for revised data.

## ESTABLISHMENT DATA HOURS AND EARNINGS

### C-6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry division and major manufacturing group—Continued

[1967=100]

Industry division and group	Sept. 1978	Oct. 1978	Aug. 1979	Sept. <sup>p</sup> 1979 <sup>p</sup>	Oct. <sup>p</sup> 1979 <sup>p</sup>
	Payrolls				
<b>TOTAL PRIVATE*</b> .....	269.8	272.6	295.8	300.2	300.2
<b>GOODS-PRODUCING</b> .....	250.2	252.0	269.1	276.4	275.5
<b>MINING</b> .....	372.9	377.2	424.1	428.2	423.3
<b>CONSTRUCTION</b> .....	293.6	298.7	341.3	340.8	336.8
<b>MANUFACTURING</b> .....	234.2	235.0	244.4	253.8	253.8
<b>DURABLE GOODS</b> .....	240.5	243.6	248.6	261.2	261.3
Lumber and wood products.....	282.4	284.8	310.7	315.0	309.8
Furniture and fixtures.....	227.1	229.9	231.0	239.0	243.8
Stone, clay, and glass products.....	263.3	265.6	282.2	283.0	281.9
Primary metal industries.....	247.2	245.0	259.8	264.8	257.3
Fabricated metal products.....	229.9	232.0	239.5	249.6	252.2
Machinery, except electrical.....	240.5	244.5	261.5	276.6	270.5
Electric and electronic equipment.....	223.5	224.8	238.8	251.9	257.7
Transportation equipment.....	242.4	250.8	219.0	244.5	249.0
Instruments and related products.....	252.5	254.0	272.9	278.3	284.3
Miscellaneous manufacturing industries.....	213.6	217.9	220.8	227.0	230.8
<b>NONDURABLE GOODS</b> .....	223.3	220.5	237.3	241.3	241.2
Food and kindred products.....	235.2	223.6	249.6	254.9	244.6
Tobacco manufactures.....	217.1	210.7	211.5	230.9	227.0
Textile mill products.....	198.0	195.5	208.7	212.7	214.8
Apparel and other textile products.....	184.3	183.1	185.2	187.1	190.9
Paper and allied products.....	234.9	231.0	261.5	263.7	266.7
Printing and publishing.....	201.5	202.1	222.0	226.3	225.9
Chemicals and allied products.....	247.4	248.7	267.3	269.0	273.4
Petroleum and coal products.....	305.9	304.7	334.3	347.5	356.9
Rubber and misc. plastics products.....	306.7	312.7	315.1	322.3	325.4
Leather and leather products.....	133.9	133.5	134.6	135.2	134.1
<b>SERVICE-PRODUCING*</b> .....	286.6	290.3	318.8	320.8	321.6
<b>TRANSPORTATION AND PUBLIC UTILITIES*</b> .....	265.1	269.9	300.0	304.8	304.2
<b>WHOLESALE AND RETAIL TRADE</b> .....	271.6	274.1	297.7	297.7	298.8
<b>WHOLESALE TRADE</b> .....	270.3	274.2	298.6	301.6	304.1
<b>RETAIL TRADE</b> .....	272.2	274.0	297.3	295.5	295.8
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	271.7	276.1	304.2	305.7	307.5
<b>SERVICES</b> .....	325.9	330.2	364.2	367.1	368.3

\*Corrected July 1979 data are: Total private - 283.9, Service - producing - 317.5, and Transportation and public utilities - 283.3.

# ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

**C-7. Average weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted**

Industry	1978			1979									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>p</sup>	Oct. <sup>p</sup>
<b>TOTAL PRIVATE</b> .....	35.8	35.8	35.9	35.8	35.7	35.9	35.3	35.7	35.6	35.6	35.6	35.7	35.5
<b>MINING</b> .....	43.1	43.3	43.4	43.4	43.1	43.1	42.9	42.8	43.0	41.6	43.2	43.1	42.9
<b>CONSTRUCTION</b> .....	36.9	36.8	37.0	37.1	36.6	37.1	35.5	37.1	37.2	36.8	37.2	37.5	36.5
<b>MANUFACTURING</b> .....	40.5	40.6	40.6	40.6	40.6	40.6	39.1	40.2	40.1	40.2	40.1	40.1	40.1
<i>Overtime hours</i> .....	3.6	3.7	3.7	3.7	3.7	3.7	2.7	3.5	3.4	3.3	3.2	3.2	3.2
<b>DURABLE GOODS</b> .....	41.3	41.3	41.4	41.4	41.4	41.4	39.5	40.9	40.7	40.7	40.7	40.7	40.7
<i>Overtime hours</i> .....	3.9	4.0	4.0	4.1	4.1	4.0	2.7	3.8	3.6	3.5	3.3	3.3	3.3
Lumber and wood products .....	40.0	40.0	39.9	39.9	39.6	40.0	39.1	39.4	39.4	39.3	39.5	39.7	39.5
Furniture and fixtures .....	39.1	39.1	39.2	38.9	38.8	39.1	38.1	38.5	38.5	38.4	38.3	38.6	38.9
Stone, clay, and glass products .....	41.9	41.9	41.9	41.8	41.6	42.0	41.2	41.7	41.6	41.4	41.3	41.5	41.1
Primary metal industries .....	42.2	42.2	42.2	42.3	42.2	42.0	41.8	41.4	41.2	41.3	41.0	40.9	40.7
Fabricated metal products .....	40.9	41.1	41.3	41.1	41.3	41.3	39.1	40.7	40.7	40.8	40.6	40.8	40.8
Machinery, except electrical .....	42.0	42.2	42.4	42.3	42.5	42.4	40.5	42.0	42.0	41.9	41.6	41.8	41.4
Electric and electronic equipment .....	40.4	40.4	40.5	40.5	40.7	40.7	39.0	40.4	40.3	40.2	39.8	40.2	40.5
Transportation equipment .....	42.7	42.7	42.8	42.8	42.7	42.3	37.9	41.5	40.8	40.9	41.7	40.6	41.1
Instruments and related products .....	40.9	40.9	40.9	41.1	41.2	41.2	40.3	40.8	40.6	40.7	40.5	40.7	40.5
Miscellaneous manufacturing ind .....	38.9	38.9	38.9	39.0	39.0	39.0	37.6	38.6	38.9	39.3	39.1	39.1	39.1
<b>NONDURABLE GOODS</b> .....	39.4	39.5	39.4	39.5	39.3	39.4	38.6	39.2	39.2	39.2	39.2	39.3	39.3
<i>Overtime hours</i> .....	3.2	3.2	3.2	3.2	3.2	3.3	2.7	3.0	3.0	3.0	3.0	3.1	3.1
Food and kindred products .....	39.8	39.8	39.9	40.0	39.8	40.0	39.6	39.8	39.8	39.8	39.7	40.0	39.8
Tobacco manufactures .....	37.1	37.5	37.1	37.2	36.9	38.0	37.6	38.9	37.6	38.5	38.0	38.5	38.1
Textile mill products .....	40.3	40.4	40.4	40.7	40.1	40.3	38.8	40.0	40.1	40.1	40.1	40.6	40.8
Apparel and other textile products .....	35.3	35.6	35.5	35.3	35.4	35.4	34.2	35.2	35.2	35.3	35.3	35.2	35.1
Paper and allied products .....	42.8	43.0	42.8	42.8	42.7	42.8	41.8	42.6	42.5	42.5	42.6	42.4	42.9
Printing and publishing .....	37.7	37.8	37.6	37.7	37.7	37.7	37.1	37.4	37.4	37.5	37.7	37.5	37.3
Chemicals and allied products .....	42.0	42.1	41.8	42.0	42.0	41.9	41.7	41.9	41.7	41.9	42.0	41.8	42.0
Petroleum and coal products .....	43.9	44.1	43.8	43.5	43.6	44.0	43.9	43.7	43.3	43.6	43.7	44.1	44.2
Rubber and misc. plastics products .....	41.1	41.1	41.2	41.4	41.2	41.3	39.7	40.9	40.7	40.6	40.2	40.3	40.1
Leather and leather products .....	37.0	36.9	36.7	36.8	36.4	36.3	35.6	36.1	36.4	36.6	36.5	36.8	36.3
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	40.0	39.9	40.0	40.0	40.0	40.0	39.2	39.8	39.8	39.7	39.9	40.1	39.9
<b>WHOLESALE AND RETAIL TRADE</b> .....	32.9	32.8	32.8	32.5	32.5	32.7	32.8	32.6	32.6	32.6	32.5	32.6	32.5
<b>WHOLESALE TRADE</b> .....	38.9	39.8	38.9	38.7	38.7	39.0	38.7	39.0	38.8	38.8	38.7	38.7	38.6
<b>RETAIL TRADE</b> .....	31.0	30.9	30.9	30.6	30.6	30.7	30.9	30.6	30.6	30.6	30.5	30.7	30.6
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	36.5	36.4	36.3	36.3	36.4	36.4	36.5	36.1	36.2	36.3	36.1	36.4	36.3
<b>SERVICES</b> .....	32.7	32.7	32.6	32.6	32.6	32.8	32.7	32.7	32.7	32.8	32.7	32.7	32.5

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

**NOTE:** In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in the October issue for additional information, and the November Supplement for revised data.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED**

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

(1967=100)

Industry division and group	1978			1979									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>	Oct. <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	123.0	123.7	124.2	124.4	124.7	125.7	123.6	125.4	125.7	125.7	125.5	125.9	125.9
<b>GOODS-PRODUCING</b> .....	107.9	108.9	109.8	110.3	110.2	111.3	106.8	110.3	110.1	109.9	109.4	109.6	109.3
<b>MINING</b> .....	148.4	150.6	151.3	152.0	152.5	152.5	152.0	151.6	152.5	148.4	156.7	157.0	155.4
<b>CONSTRUCTION</b> .....	125.5	126.0	127.9	128.9	126.7	132.7	124.9	133.7	134.4	133.9	134.5	135.2	132.6
<b>MANUFACTURING</b> .....	103.4	104.4	105.1	105.6	105.8	106.0	102.0	104.7	104.3	104.4	103.3	103.4	103.5
<b>DURABLE GOODS</b> .....	106.8	107.9	108.8	109.2	109.9	110.1	105.0	108.3	107.9	107.9	106.8	107.1	106.6
Lumber and wood products .....	113.9	115.0	115.6	115.9	114.9	116.4	112.4	113.3	112.7	111.9	112.3	113.8	114.1
Furniture and fixtures .....	109.2	109.4	110.2	109.9	109.1	109.4	105.8	105.9	105.3	105.9	104.5	104.8	106.2
Stone, clay, and glass products .....	111.8	112.6	113.4	113.0	112.8	114.9	111.5	113.1	113.0	111.5	110.8	111.4	109.9
Primary metal industries .....	97.9	99.1	99.6	100.1	100.3	100.2	99.7	97.9	97.9	97.8	95.9	95.3	94.5
Fabricated metal products .....	105.1	106.5	107.8	107.6	108.7	108.6	102.7	106.6	107.1	106.7	104.8	105.7	106.2
Machinery, except electrical .....	112.4	113.5	115.3	115.8	117.4	117.5	113.0	117.4	117.6	118.0	116.2	117.7	115.4
Electric and electronic equipment .....	103.7	104.6	105.5	106.6	107.8	108.5	104.4	108.2	108.6	108.5	104.7	106.4	108.6
Transportation equipment .....	103.6	104.9	105.6	105.9	106.9	105.9	94.3	102.6	99.4	100.3	102.6	100.3	97.3
Instruments and related products .....	124.8	125.7	126.3	128.2	129.4	129.7	127.2	128.1	128.4	128.1	127.2	127.2	129.0
Miscellaneous manufacturing ind .....	101.8	102.1	101.8	102.3	101.7	101.7	97.5	98.7	100.3	100.7	100.8	100.2	100.2
<b>NONDURABLE GOODS</b> .....	99.5	99.5	99.8	100.3	99.8	100.1	97.8	99.5	99.1	99.1	98.2	98.0	99.0
Food and kindred products .....	95.2	96.4	97.7	98.1	97.0	98.1	96.8	97.0	96.8	95.9	94.6	95.0	96.2
Tobacco manufactures .....	71.7	72.4	73.6	71.8	70.0	73.4	73.9	76.5	72.6	73.0	66.7	70.3	70.9
Textile mill products .....	90.6	91.0	91.0	91.9	90.3	90.6	86.7	89.5	89.6	89.8	89.0	89.9	91.0
Apparel and other textile products .....	90.6	91.3	91.0	91.0	90.3	89.9	86.8	89.5	88.7	89.5	88.0	87.3	87.9
Paper and allied products .....	98.8	100.4	100.7	101.1	101.8	103.0	100.8	102.3	102.1	103.2	103.1	102.1	103.6
Printing and publishing .....	99.8	101.4	101.5	102.5	103.1	103.4	101.7	103.1	103.3	104.4	104.7	103.7	104.5
Chemicals and allied products .....	107.3	108.1	107.8	108.7	108.5	108.1	107.7	108.3	108.4	108.8	108.2	107.5	109.2
Petroleum and coal products .....	123.0	124.4	123.6	122.7	123.9	125.0	125.7	124.2	123.1	123.0	124.2	126.2	131.0
Rubber and misc. plastics products .....	147.6	149.9	152.0	153.5	154.0	154.4	148.4	153.4	150.4	150.5	145.6	143.5	144.0
Leather and leather products .....	70.2	69.4	68.4	67.9	66.6	66.1	63.9	65.4	66.0	61.3	64.9	65.7	64.5
<b>SERVICE-PRODUCING</b> .....	133.5	134.0	134.2	134.2	134.8	135.8	135.3	135.9	136.5	136.7	136.6	137.3	137.5
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	111.7	112.0	112.5	112.8	113.3	113.7	109.2	113.4	115.0	114.2	115.2	115.4	116.0
<b>WHOLESALE AND RETAIL TRADE</b> .....	129.0	129.2	129.5	129.0	129.3	130.2	130.6	130.2	130.0	129.9	129.6	130.3	130.8
<b>WHOLESALE TRADE</b> .....	129.4	129.6	130.5	130.5	130.8	132.3	131.3	132.8	132.8	132.7	132.4	132.4	133.3
<b>RETAIL TRADE</b> .....	128.8	129.0	129.0	128.5	128.7	129.3	130.3	129.1	128.9	128.9	128.5	129.5	129.8
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	141.8	142.6	142.7	143.3	144.1	144.6	145.5	144.5	145.7	146.5	146.3	147.1	147.5
<b>SERVICES</b> .....	147.3	148.3	148.4	148.6	149.5	151.1	151.0	151.7	152.6	153.5	153.4	154.1	153.8

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

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in the October issue for additional information, and the November Supplement for revised data.



# ESTABLISHMENT DATA SEASONALLY ADJUSTED

**C-9. Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, seasonally adjusted**

Industry	1978			1979									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>	Oct. <sup>P</sup>
<b>Hourly Earnings Index<sup>2</sup> (1967=100)</b>													
TOTAL PRIVATE (In current dollars) . . . . .	218.1	219.2	220.9	222.6	224.0	225.2	226.8	227.5	229.0	230.9	232.2	234.2	234.9
MINING . . . . .	248.9	249.9	250.9	252.1	253.7	256.1	264.1	262.7	264.9	266.9	265.6	265.6	267.0
CONSTRUCTION . . . . .	210.5	211.6	213.0	213.8	216.7	216.5	218.1	220.4	220.4	222.1	223.1	224.3	224.5
MANUFACTURING . . . . .	220.8	222.4	224.2	225.4	227.2	228.7	231.0	232.3	233.9	235.4	236.9	238.7	240.3
TRANSPORTATION AND PUBLIC UTILITIES . . . . .	235.4	236.3	239.0	240.8	241.7	243.1	241.7	243.7	246.4	251.3	252.6	255.0	255.5
WHOLESALE AND RETAIL TRADE . . . . .	211.7	213.0	214.7	217.7	218.1	219.4	220.9	221.0	222.6	223.8	225.4	226.8	227.1
FINANCE, INSURANCE, AND REAL ESTATE . . . . .	199.6	200.7	202.1	202.4	204.2	204.8	207.5	207.0	208.0	210.8	211.5	214.4	213.3
SERVICES . . . . .	217.2	217.7	219.3	220.8	222.2	223.3	225.0	224.3	225.7	227.0	228.4	231.4	232.0
TOTAL PRIVATE (In 1967 dollars) <sup>3</sup> . . . . .	108.7	108.6	108.7	108.5	107.8	107.3	106.9	106.1	105.7	105.6	105.1	104.8	-
<b>Average hourly earnings</b>													
TOTAL PRIVATE . . . . .	\$ 5.84	\$ 5.87	\$ 5.92	\$ 5.96	\$ 6.00	\$ 6.04	\$ 6.04	\$ 6.09	\$ 6.13	\$ 6.18	\$ 6.22	\$ 6.26	\$ 6.28
MINING . . . . .	7.98	8.06	8.08	8.18	8.23	8.28	8.56	8.43	8.49	8.49	8.57	8.48	8.53
CONSTRUCTION . . . . .	8.78	8.85	8.88	8.94	9.06	9.03	9.11	9.20	9.19	9.27	9.32	9.38	9.40
MANUFACTURING . . . . .	6.33	6.38	6.43	6.46	6.51	6.56	6.56	6.65	6.68	6.72	6.74	6.78	6.83
TRANSPORTATION AND PUBLIC UTILITIES . . . . .	7.73	7.74	7.83	7.88	7.92	7.96	7.91	7.99	8.09	<sup>c</sup> 8.21	8.30	8.35	8.37
WHOLESALE AND RETAIL TRADE . . . . .	4.79	4.81	4.85	4.92	4.93	4.96	4.99	5.00	5.03	5.07	5.10	5.12	5.13
FINANCE, INSURANCE, AND REAL ESTATE . . . . .	5.03	5.06	5.09	5.09	5.14	5.16	5.22	5.21	5.23	5.30	5.32	5.40	5.38
SERVICES . . . . .	5.09	5.11	5.14	5.18	5.22	5.24	5.27	5.26	5.31	5.35	5.39	5.45	5.45
<b>Average weekly earnings</b>													
TOTAL PRIVATE:													
Current dollars . . . . .	209.07	210.15	211.94	213.37	214.20	216.84	213.21	217.41	218.23	220.01	221.43	223.48	222.94
1967 dollars <sup>3</sup> . . . . .	104.22	104.14	104.30	103.98	103.13	103.31	100.48	101.40	100.75	100.60	100.24	100.04	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) <sup>3, 4</sup> . . . . .	92.09	91.95	91.97	92.46	91.66	91.68	89.35	89.96	89.34	89.12	88.73	88.44	-

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

<sup>2</sup> 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.

<sup>3</sup> The CPI-W is used to deflate these series to 1967 dollars.

<sup>4</sup> See footnote 2, table C-5.

N.A.=not available.

p=preliminary.

c=corrected.

**C-10. Hours of wage and salary workers<sup>1</sup> in nonagricultural establishments, by industry division**

Industry division	Millions of hours (Annual rate) <sup>2</sup>			Percent change		
	AUGUST 1979	SEPTEMBER 1979p	OCTOBER 1979p	Oct. 1978 to Oct. 1979	Aug. 1979 to Sept. 1979	Sept. 1979 to Oct. 1979
TOTAL . . . . .	169,097	169,639	169,616	2.5	0.3	0.0
PRIVATE SECTOR . . . . .	138,155	138,764	138,678	2.6	0.4	-0.1
MINING . . . . .	2,198	2,215	2,131	4.3	0.7	-3.8
CONSTRUCTION . . . . .	9,072	9,148	8,931	5.4	0.8	-2.4
MANUFACTURING . . . . .	43,219	43,370	43,495	0.9	0.3	0.3
DURABLE GOODS . . . . .	26,413	26,609	26,621	1.1	0.7	0.0
NONDURABLE GOODS . . . . .	16,806	16,761	16,874	0.6	-0.3	0.7
TRANSPORTATION AND PUBLIC UTILITIES . . . . .	10,767	10,801	10,836	4.2	0.3	0.3
WHOLESALE AND RETAIL TRADE . . . . .	34,234	34,365	34,427	1.6	0.4	0.2
FINANCE, INSURANCE, AND REAL ESTATE . . . . .	9,413	9,476	9,518	4.4	0.7	0.4
SERVICES . . . . .	29,251	29,388	29,342	4.3	0.5	-0.2
GOVERNMENT . . . . .	30,942	30,875	30,937	2.1	-0.2	0.2

<sup>1</sup> 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.

<sup>2</sup> "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
<b>PRIVATE BUSINESS SECTOR:</b>													
Output per hour of all persons	118.6r	119.2r	118.5	117.9r	119.4r	118.8r	118.4r	119.0r	119.7r	119.8r	118.9r	118.2r	118.3p
Output	133.8	140.7	131.0	132.8	135.2	136.1	136.9	140.3	141.8	144.0	144.4	143.4r	144.3p
Hours	112.8r	118.1r	110.6	112.6r	113.2r	114.5r	115.6r	117.9r	118.4r	120.2r	121.5r	121.3r	122.0p
Compensation per hour	213.0r	231.2r	207.7	210.8r	215.3r	218.5r	224.2r	228.5r	233.6r	238.4r	244.8r	250.3r	255.4p
Real compensation per hour	117.3r	118.3r	117.2	116.7r	117.6r	117.9r	118.7r	118.1r	118.2r	118.0r	118.0r	116.9r	115.7p
Unit labor costs	179.6r	194.0	175.2	178.8r	180.2r	183.8r	189.4r	192.1r	195.2r	199.0r	205.9r	211.7r	216.0p
Unit nonlabor payments	165.6r	174.3r	161.4	164.7r	167.9r	168.6r	164.8r	173.9r	177.0r	181.3r	180.8r	183.7r	187.5p
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	206.2p
<b>NONFARM BUSINESS SECTOR:</b>													
Output per hour of all persons	116.2r	116.8r	116.4	115.8r	116.7r	116.3r	116.0r	116.5r	117.3r	117.6r	116.6r	115.4r	115.5p
Output	134.3	141.5	131.7	133.4	135.6	136.4	137.3	141.1	142.7	145.0	145.5	144.2r	145.2p
Hours	115.6r	121.1r	113.2	115.2r	116.2r	117.3r	118.4r	121.1r	121.6r	123.4r	124.8r	124.9r	125.7p
Compensation per hour	209.3r	227.3r	204.1	207.3r	211.2r	214.8r	220.6r	224.6r	229.4r	234.3r	240.2r	244.8r	249.6p
Real compensation per hour	115.3r	116.3r	115.2	114.7r	115.4r	115.9r	116.8r	116.1r	116.1r	116.0r	115.8r	114.3r	113.1p
Unit labor costs	180.1	194.5r	175.4	179.0	180.9r	184.7r	190.2r	192.7r	195.6r	199.3r	206.0r	212.1r	216.2p
Unit nonlabor payments	163.9r	169.9r	159.1	163.2	167.1r	166.0r	161.1r	169.2r	173.0r	176.1r	174.3r	177.6r	183.0p
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	204.8p
<b>MANUFACTURING:</b>													
Output per hour of all persons	127.2r	128.0r	125.4	127.3r	128.4r	127.8r	125.7r	127.2r	129.2r	129.8r	129.0r	130.0r	131.0p
Output	128.2	134.5	124.2	128.1	129.9	130.8	130.1	133.4	135.9	138.5	140.1	139.7r	139.7p
Hours	100.8r	105.1r	99.0	100.6r	101.1r	102.3r	103.4r	104.8r	105.2r	106.7r	108.5r	107.5r	106.7p
Compensation per hour	212.0r	229.5r	206.4	209.7r	214.1r	217.5r	223.2r	226.6r	231.4r	236.5r	242.4r	248.2r	253.0p
Real compensation per hour	116.8r	117.5r	116.5r	116.1r	117.0r	117.4r	118.1r	117.1r	117.0r	117.1r	116.9r	115.9	114.6p
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	193.1p
<b>DURABLE GOODS</b>													
Output per hour of all persons	121.2r	121.3r	119.5	121.6r	122.3r	121.7r	118.9r	120.9r	122.5r	122.8r	121.8r	122.7r	122.6p
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	134.4p
Hours	101.0r	106.9r	98.6	100.5r	101.7r	103.2r	104.6r	106.1r	107.2r	109.5r	111.8r	110.3r	109.6p
Compensation per hour	213.8r	230.8r	208.2	211.6r	215.9r	219.4r	224.5r	227.9r	232.5r	237.9r	243.8r	249.5r	254.3p
Real compensation per hour	117.8r	118.1r	117.5	117.1r	118.0r	118.4r	118.9r	117.8r	117.6r	117.7r	117.5r	116.5r	115.2p
Unit labor costs	176.4	190.4	174.3	174.0	176.6	180.3	188.8	188.5	189.9	193.7	200.1r	203.3	207.4p
<b>NONDURABLE GOODS</b>													
Output per hour of all persons	137.0r	139.0r	135.1	136.6	138.5r	137.9r	136.9r	137.5r	140.3r	141.4r	141.1r	142.1r	145.0p
Output	137.6	142.3	134.6	137.6	138.8	139.3	139.3	141.6	143.2	145.1	146.3	146.9r	148.3p
Hours	100.4r	102.4r	99.6	100.7	100.2r	101.1r	101.7r	103.0r	102.1r	102.6r	103.7r	103.4r	102.3p
Compensation per hour	208.6r	226.1r	203.6	206.6	210.6r	213.8r	220.1r	223.6r	228.1r	232.4r	238.0r	244.1r	248.8p
Real compensation per hour	114.9r	115.7r	114.9	114.4	115.1r	115.3r	116.5r	115.5r	115.4r	115.0r	114.8r	114.0r	112.7p
Unit labor costs	152.3	162.7	150.7	151.2	152.1	155.1	160.7	162.6	162.6r	164.3	168.7	171.8r	171.5p
<b>NONFINANCIAL CORPORATIONS:</b>													
Output per all-employee hour	116.8r	117.9r	116.8	116.5r	117.4r	116.7r	116.7r	117.8r	118.4r	118.8r	118.1r	117.3r	NA
Output	141.2	150.0	138.4	140.4	142.7	143.4	144.7	149.7	151.4	154.2	155.1	154.1r	NA
Hours	120.9r	127.2r	118.5	120.5r	121.5r	122.9r	124.1r	127.1r	127.8r	129.8r	131.3r	131.4r	NA
Compensation per hour	207.6r	224.8r	202.5	205.7r	209.5r	212.8r	218.5r	222.3r	226.9r	231.3r	237.4r	242.1r	NA
Real compensation per hour	114.4r	115.0r	114.3	113.8r	114.5r	114.8r	115.7r	114.9r	114.8r	114.5r	114.5r	113.1r	NA
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	208.0r	NA
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	206.4r	NA
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	213.2r	NA
Unit profits	122.7	127.2	114.1	123.3	130.9	122.2	107.1	129.2	132.7	138.7	130.3	129.2r	NA
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	NA

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	II 1978	III 1978	IV 1978	I 1979	II 1979	III 1977	III 1977	IV 1977	I 1978	II 1978	III 1978
	to II 1978	to III 1978	to IV 1978	to I 1979	to II 1979	to III 1979	to II 1978	to III 1978	to IV 1978	to I 1979	to II 1979	to III 1979
<b>PRIVATE BUSINESS SECTOR:</b>												
Output per hour of all persons	2.0r	2.4r	0.3r	-3.0r	-2.2r	0.1r	0.9r	0.2r	0.8r	0.4r	-0.6r	-1.2p
Output	10.5	4.2	6.4	1.2	-2.9r	2.5r	5.7	4.8	5.8	5.5	2.2r	1.8p
Hours	8.4r	1.7r	6.1r	4.4r	-0.7	2.4r	4.7r	4.6r	5.0r	5.1r	2.8r	3.0p
Compensation per hour	7.9	9.2r	8.5r	11.1r	9.3	8.5r	8.4r	8.5r	9.1r	9.2r	9.5r	9.4p
Real compensation per hour	-2.1	0.3r	-0.7r	0.1r	-3.8	-3.9r	1.2r	0.4r	0.1r	-0.6r	-1.0r	-2.1p
Unit labor costs	5.8	6.6	8.1r	14.6	11.8r	8.3r	7.4r	8.3r	8.3	8.7r	10.2r	10.7p
Unit nonlabor payments	24.0r	7.4	9.9r	-1.0r	6.5r	8.6r	5.6r	5.4r	7.5r	9.7r	5.6r	5.9p
Implicit price deflator	11.2	6.9	8.7	9.3	10.1r	8.4r	6.8	7.4	8.0	9.0	8.7	9.1p
<b>NONFARM BUSINESS SECTOR:</b>												
Output per hour of all persons	1.9r	2.7r	0.8r	-3.2r	-4.1r	0.2r	0.6r	0.5r	1.1r	0.5r	-1.0r	-1.6p
Output	11.5	4.5	6.8	1.2	-3.6r	2.8r	5.7	5.2	6.3	5.9	2.2r	1.7p
Hours	9.4r	1.8r	5.9r	4.6r	0.5	2.5r	5.1r	4.7r	5.2r	5.4r	3.2r	3.4p
Compensation per hour	7.5r	8.8r	8.8r	10.4r	7.9r	8.2r	8.4r	8.7r	9.1r	8.9r	9.0r	8.8p
Real compensation per hour	-2.5r	0.0r	-0.4r	-0.6r	-5.0r	-4.2r	1.2r	0.6r	0.1r	-0.8r	-1.5r	-2.6p
Unit labor costs	5.4r	6.0	8.0	14.0r	12.5r	7.9r	7.7r	8.1	7.9r	8.3	10.1	10.6p
Unit nonlabor payments	21.5r	9.4r	7.3r	-4.0r	7.8r	12.6r	3.7r	3.5r	6.1r	8.2r	5.0r	5.8p
Implicit price deflator	10.2	7.0	7.8	8.1	11.0	9.3r	6.4	6.6	7.3	8.3	8.5	9.0p
<b>MANUFACTURING:</b>												
Output per hour of all persons	4.8r	6.3r	2.0	-2.4r	2.9r	3.2r	-0.1r	0.6r	1.6r	2.6r	2.2r	1.4p
Output	10.6	7.6	8.1	4.6	-0.9r	0.0r	4.1	4.6	5.9	7.7	4.8r	2.9p
Hours	5.5r	1.3r	5.9	7.1r	-3.7r	-3.1r	4.2r	4.0r	4.3r	4.9r	2.6r	1.4p
Compensation per hour	6.3r	8.7r	9.3	10.3r	9.8r	8.0r	8.0r	8.1r	8.7r	8.6r	9.5r	9.4p
Real compensation per hour	-3.5r	-0.1r	0.0r	-0.6r	-3.4r	-4.3r	0.9r	0.0r	-0.3r	-1.1r	-1.0r	-2.1p
Unit labor costs	1.4	2.2	7.1	13.0	6.7r	4.6r	8.1	7.4	7.1	5.9	7.2r	7.8p
<b>DURABLE GOODS</b>												
Output per hour of all persons	6.9r	5.1r	1.2r	-3.2r	2.9r	-0.2r	-0.6r	0.2r	0.9r	2.4r	1.5r	0.1p
Output	13.3	9.6	10.0	5.3	-2.5r	-2.7r	5.0	5.6	7.1	9.5	5.5r	2.4p
Hours	5.9r	4.3r	8.7r	8.8r	-5.2r	-2.5r	5.6r	5.4r	6.1r	6.9r	4.0r	2.2p
Compensation per hour	6.1r	8.3r	9.6r	10.3r	9.7	8.0r	7.7r	7.7r	8.4r	8.6r	9.5r	9.4p
Real compensation per hour	-3.7r	-0.4r	0.4	-0.6r	-3.5r	-4.4r	0.5r	-0.3r	-0.5r	-1.1r	-1.1r	-2.1p
Unit labor costs	-0.8	3.1	8.3	13.9	6.6r	8.2r	8.3	7.5	7.4	6.0	7.9	9.2p
<b>NONDURABLE GOODS</b>												
Output per hour of all persons	1.7r	8.2r	3.4	-0.9r	2.7r	8.6r	0.6r	1.3r	2.6r	3.1r	3.3r	3.4p
Output	6.8	4.8	5.3	3.4	1.5r	4.1r	2.9	3.2r	4.1	5.1	3.7r	3.6p
Hours	4.9r	-3.2r	1.8	4.4r	-1.2r	-4.2r	2.2r	1.9r	1.5r	1.9r	0.4r	0.2p
Compensation per hour	6.5r	8.3r	7.8	10.0r	10.6r	7.9r	8.2r	8.3r	8.7r	8.1r	9.2r	9.1p
Real compensation per hour	-3.3r	-0.4	-1.3	-0.9r	-2.6r	-4.5r	1.0r	0.3r	-0.3r	-1.5r	-1.3r	-2.3p
Unit labor costs	4.7	0.1	4.2	11.0	7.7r	-0.7r	7.5	7.0	6.0	4.9	5.7r	5.5p
<b>NONFINANCIAL CORPORATIONS:</b>												
Output per all-employee hour	4.1r	2.0r	1.1r	-2.1r	-2.8r	NA	1.2r	0.8r	1.8r	1.3	-0.5r	NA
Output	14.5	4.6	7.6	2.5	-2.6r	NA	6.7	6.1	7.5	7.2	2.9r	NA
Hours	10.0r	2.5r	6.4r	4.6r	0.3	NA	5.4r	5.2r	5.6r	5.8r	3.4r	NA
Compensation per hour	7.2r	8.4r	8.1r	11.0r	8.0r	NA	8.1r	8.3r	8.7r	8.7r	8.9r	NA
Real compensation per hour	-2.7r	-0.4r	-1.0r	0.0r	-4.9r	NA	0.9r	0.2r	-0.3r	-1.0r	-1.6r	NA
Total unit costs	1.8	5.1	5.9	11.7	11.8r	NA	6.2	6.4	5.6	6.1	8.6r	NA
Unit labor costs	2.9	6.2	6.9	13.4	11.2r	NA	6.8	7.4	6.8	7.3	9.4r	NA
Unit nonlabor costs	-1.3	1.7	2.9	6.8	13.5r	NA	4.3	3.5	2.2	2.5	6.2r	NA
Unit profits	111.3	11.4	19.5	-22.1	-3.4r	NA	4.7	1.4	13.6	21.7	0.0r	NA
Implicit price deflator	9.3	5.7	7.3	7.6	10.2r	NA	6.0	5.8	6.4	7.5	7.7	NA

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		
	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
<b>ALABAMA</b> .....	\$227.55	\$246.38	\$240.79	41.0	41.2	39.8	\$5.55	\$5.98	\$6.05
Birmingham .....	266.09	295.36	293.35	41.0	41.6	40.8	6.49	7.10	7.19
Mobile .....	274.23	306.08	226.44	41.3	41.7	30.6	6.64	7.34	7.40
<b>ALASKA</b> .....	385.90	365.40	(*)	42.5	42.0	(*)	9.08	8.70	(*)
<b>ARIZONA</b> .....	250.10	275.93	280.16	40.8	41.0	41.2	6.13	6.73	6.80
Phoenix .....	252.97	272.97	283.44	41.0	40.5	41.5	6.17	6.74	6.83
Tucson .....	230.88	255.42	250.90	39.0	38.7	38.6	5.92	6.60	6.50
<b>ARKANSAS</b> .....	191.35	211.45	215.06	39.7	40.2	40.5	4.82	5.26	5.31
Fayetteville-Springdale .....	173.53	184.98	192.70	39.8	40.3	41.8	4.36	4.59	4.61
Fort Smith .....	193.22	215.42	220.15	38.8	39.6	40.1	4.98	5.44	5.49
Little Rock-North Little Rock .....	215.17	234.02	239.40	38.7	39.8	40.1	5.56	5.88	5.97
Pine Bluff .....	270.32	291.38	284.99	43.6	42.6	42.6	6.20	6.84	6.69
<b>CALIFORNIA</b> .....	263.31	285.51	287.20	40.2	40.1	40.0	6.55	7.12	7.18
Anaheim-Santa Ana-Garden Grove .....	245.40	258.55	263.97	40.9	39.9	40.3	6.00	6.48	6.55
Bakersfield .....	275.01	306.03	325.26	39.4	39.9	41.7	6.98	7.67	7.80
Fresno .....	240.40	261.14	256.24	40.0	40.3	39.3	6.01	6.48	6.52
Los Angeles-Long Beach .....	244.82	267.47	267.73	40.4	40.1	39.9	6.06	6.67	6.71
Modesto .....	278.46	268.35	285.29	42.0	38.5	39.9	6.63	6.97	7.15
Oxnard-Simi Valley-Ventura .....	227.43	252.41	254.23	39.9	39.5	39.6	5.70	6.39	6.42
Riverside-San Bernardino-Ontario .....	275.40	293.38	292.00	40.5	40.3	40.0	6.80	7.28	7.30
Sacramento .....	291.01	309.87	317.46	40.7	40.4	40.7	7.15	7.67	7.80
Salinas-Seaside-Monterey .....	252.98	262.13	277.22	38.8	37.5	39.1	6.52	6.99	7.09
San Diego .....	244.68	258.14	265.98	38.9	38.3	39.0	6.29	6.74	6.82
San Francisco-Oakland .....	312.43	339.15	339.37	39.8	39.9	39.6	7.85	8.50	8.57
San Jose .....	282.90	302.82	305.70	41.0	41.2	41.2	6.90	7.35	7.42
Santa Barbara-Santa Maria-Lompoc .....	232.06	239.94	244.22	39.2	37.2	37.4	5.92	6.45	6.53
Santa Rosa .....	236.25	256.97	268.94	37.5	38.7	40.2	6.30	6.64	6.69
Stockton .....	291.51	306.82	327.17	40.6	40.8	42.6	7.18	7.52	7.68
Vallejo-Fairfield-Napa .....	276.44	310.95	305.27	39.1	40.7	39.8	7.07	7.64	7.67
<b>COLORADO</b> .....	251.22	268.09	269.89	39.5	39.6	39.4	6.36	6.77	6.85
Denver-Boulder .....	245.94	269.21	270.87	39.1	39.3	39.2	6.29	6.85	6.91
<b>CONNECTICUT</b> .....	254.82	264.96	273.61	42.4	41.4	41.9	6.01	6.40	6.53
Bridgeport .....	269.89	281.35	288.77	44.1	42.5	43.1	6.12	6.62	6.70
Hartford .....	280.37	290.50	300.66	43.2	41.5	41.7	6.49	7.00	7.21
New Britain .....	267.53	278.99	281.96	43.5	42.4	42.4	6.15	6.58	6.65
New Haven-West Haven .....	262.26	270.85	260.80	42.3	41.1	39.1	6.20	6.59	6.67
Stamford .....	259.14	272.43	274.55	42.0	42.7	42.5	6.17	6.38	6.46
Waterbury .....	226.94	237.38	243.67	42.9	41.5	42.6	5.29	5.72	5.72
<b>DELAWARE</b> .....	255.57	278.25	288.36	39.5	38.7	40.5	6.47	7.19	7.12
Wilmington .....	291.51	315.40	317.60	39.5	38.0	39.8	7.38	8.30	7.98
<b>DISTRICT OF COLUMBIA:</b>									
Washington SMSA .....	267.13	287.51	295.27	39.4	38.8	38.8	6.78	7.41	7.61
<b>FLORIDA</b> .....	210.73	223.11	226.89	41.4	40.2	40.3	5.09	5.55	5.63
Fort Lauderdale-Hollywood .....	192.23	206.80	215.06	40.3	40.0	41.2	4.77	5.17	5.22
Jacksonville .....	265.93	268.86	276.18	43.1	41.3	42.1	6.17	6.51	6.56
Miami .....	176.17	193.85	189.24	39.5	39.4	39.1	4.46	4.92	4.84
Orlando .....	224.61	235.19	239.25	42.3	41.7	41.9	5.31	5.64	5.71
Pensacola .....	272.82	294.19	287.20	43.1	43.2	40.0	6.33	6.81	7.18
Tampa-St. Petersburg .....	219.02	232.88	234.02	42.2	41.0	41.2	5.19	5.68	5.68
West Palm Beach-Boca Raton .....	239.55	235.62	244.08	42.1	37.4	37.9	5.69	6.30	6.44
<b>GEORGIA</b> .....	200.38	214.61	219.37	40.4	40.8	40.7	4.96	5.26	5.39
Atlanta .....	227.95	246.65	256.82	38.9	40.5	40.7	5.86	6.09	6.31
Savannah .....	282.07	304.33	311.96	43.8	43.6	44.0	6.44	6.98	7.09
<b>HAWAII</b> <sup>1</sup> .....	233.02	236.98	258.45	38.2	39.3	39.1	6.10	6.03	6.61
Honolulu .....	225.60	227.42	263.50	37.6	37.1	38.3	6.00	6.13	6.88
<b>IDAHO</b> .....	260.17	286.89	(*)	39.3	39.3	(*)	6.62	7.30	(*)
Boise City .....	235.93	247.20	(*)	38.3	39.3	(*)	6.16	6.29	(*)

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		
	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
<b>ILLINOIS</b> .....	\$277.36	\$301.87	\$309.05	40.2	40.9	41.5	\$6.89	\$7.39	\$7.45
Bloomington—Normal .....	254.49	274.51	282.44	41.3	41.3	42.6	6.17	6.64	6.63
Champaign—Urbana—Rantoul .....	258.13	262.30	266.45	40.0	38.7	39.1	6.45	6.78	6.82
Chicago SMSA .....	273.05	285.16	289.30	40.8	40.3	40.7	6.69	7.08	7.11
Davenport—Rock Island—Moline <sup>2</sup> .....	287.52	346.72	358.14	38.9	39.4	40.5	7.39	8.81	8.86
Decatur .....	311.49	343.01	347.32	41.7	42.0	42.1	7.46	8.16	8.25
Peoria .....	335.19	363.05	366.86	39.4	39.5	39.7	8.50	9.19	9.25
Rockford .....	286.97	301.47	297.99	42.8	41.7	41.3	6.70	7.23	7.21
Springfield .....	313.48	318.73	325.32	42.2	41.8	42.6	7.43	7.63	7.64
<b>INDIANA</b> .....	301.71	313.13	319.09	41.5	40.3	40.7	7.27	7.77	7.84
Gary—Hammond—East Chicago .....	410.66	431.09	(*)	42.6	40.9	(*)	9.64	10.54	(*)
Indianapolis .....	301.85	314.06	(*)	42.1	41.0	(*)	7.17	7.66	(*)
<b>IOWA</b> .....	285.20	298.75	324.36	40.0	38.9	40.8	7.13	7.68	7.95
Cedar Rapids .....	297.25	313.60	320.62	41.0	40.0	41.0	7.25	7.84	7.82
Des Moines .....	290.68	321.20	343.20	38.5	39.9	41.2	7.55	8.05	8.33
Dubuque .....	343.87	315.08	375.03	39.8	37.2	40.5	8.64	8.47	9.26
Sioux City .....	273.92	296.19	304.01	42.6	41.6	42.4	6.43	7.12	7.17
Waterloo—Cedar Falls .....	365.49	437.30	426.94	40.7	45.6	43.3	8.98	9.59	9.86
<b>KANSAS</b> .....	(*)	272.95	283.18	(*)	40.8	41.4	(*)	6.69	6.84
Topeka .....	(*)	276.29	304.38	(*)	40.1	41.3	(*)	6.89	7.37
Wichita .....	(*)	291.17	302.10	(*)	41.3	41.9	(*)	7.05	7.21
<b>KENTUCKY</b> .....	253.29	267.54	274.72	39.7	39.0	39.7	6.38	6.86	6.92
Louisville .....	290.79	306.06	312.44	40.5	39.8	39.7	7.18	7.69	7.87
<b>LOUISIANA</b> .....	275.64	297.65	301.86	41.7	42.1	42.1	6.61	7.07	7.17
Baton Rouge .....	345.10	362.30	376.23	43.3	40.8	42.9	7.97	8.88	8.77
New Orleans .....	258.45	289.26	280.37	39.1	41.5	39.6	6.61	6.97	7.08
Shreveport .....	246.19	265.10	269.58	41.1	41.1	40.6	5.99	6.45	6.64
<b>MAINE</b> .....	203.18	218.80	223.76	40.8	40.0	40.1	4.98	5.47	5.58
Lewiston—Auburn .....	163.11	178.69	177.71	38.2	38.1	37.1	4.27	4.69	4.79
Portland .....	207.67	206.90	212.78	40.8	38.6	38.9	5.09	5.36	5.47
<b>MARYLAND</b> .....	265.43	284.80	289.44	40.4	40.0	40.2	6.57	7.12	7.20
Baltimore .....	283.97	303.16	307.04	40.8	40.1	40.4	6.96	7.56	7.60
<b>MASSACHUSETTS</b> .....	229.70	239.98	(*)	40.8	39.6	(*)	5.63	6.06	(*)
Boston .....	255.65	262.94	(*)	41.3	39.6	(*)	6.19	6.64	(*)
Brockton .....	180.03	187.67	(*)	38.8	38.3	(*)	4.64	4.90	(*)
Fall River .....	161.33	185.74	(*)	36.5	37.0	(*)	4.42	5.02	(*)
Lawrence—Haverhill .....	223.28	243.19	(*)	39.8	40.6	(*)	5.61	5.99	(*)
Lowell .....	203.21	198.91	(*)	40.4	38.4	(*)	5.03	5.18	(*)
New Bedford .....	196.42	212.65	(*)	39.6	39.6	(*)	4.96	5.37	(*)
Springfield—Chicopee—Holyoke .....	231.99	239.80	(*)	41.5	40.1	(*)	5.59	5.98	(*)
Worcester .....	234.93	252.05	(*)	41.0	40.2	(*)	5.73	6.27	(*)
<b>MICHIGAN</b> .....	(*)	349.47	(*)	(*)	40.5	(*)	(*)	8.63	(*)
Ann Arbor .....	(*)	377.05	(*)	(*)	41.7	(*)	(*)	9.04	(*)
Battle Creek .....	(*)	368.11	(*)	(*)	41.3	(*)	(*)	8.91	(*)
Bay City .....	(*)	310.99	(*)	(*)	41.3	(*)	(*)	7.53	(*)
Detroit .....	(*)	384.54	(*)	(*)	41.3	(*)	(*)	9.31	(*)
Flint .....	(*)	375.79	(*)	(*)	39.1	(*)	(*)	9.61	(*)
Grand Rapids .....	(*)	288.07	(*)	(*)	39.8	(*)	(*)	7.24	(*)
Jackson .....	(*)	329.04	(*)	(*)	42.6	(*)	(*)	7.72	(*)
Kalamazoo—Portage .....	(*)	319.78	(*)	(*)	39.7	(*)	(*)	8.06	(*)
Lansing—East Lansing .....	(*)	347.78	(*)	(*)	39.2	(*)	(*)	8.87	(*)
Muskegon—Norton Shores—Muskegon Heights .....	(*)	319.51	(*)	(*)	41.2	(*)	(*)	7.76	(*)
Saginaw .....	(*)	368.76	(*)	(*)	38.8	(*)	(*)	9.50	(*)
<b>MINNESOTA</b> .....	264.55	278.29	281.70	40.7	40.1	40.3	6.50	6.94	6.99
Duluth—Superior .....	241.92	259.18	261.51	39.4	38.8	38.8	6.14	6.68	6.74
Minneapolis—St. Paul .....	285.36	299.70	303.55	41.0	40.5	40.8	6.96	7.40	7.44
<b>MISSISSIPPI</b> .....	186.24	198.80	186.50	40.4	40.0	37.6	4.61	4.97	4.96
Jackson .....	210.50	217.34	219.72	42.1	40.7	41.3	5.00	5.34	5.32

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		
	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
<b>MISSOURI</b> .....	\$255.33	\$261.58	\$271.72	40.4	39.1	39.9	\$6.32	\$6.69	\$6.81
Kansas City .....	291.62	306.00	311.18	40.9	40.0	40.1	7.13	7.65	7.76
St. Joseph .....	232.88	245.86	250.00	40.5	39.4	38.7	5.75	6.24	6.46
St. Louis .....	300.77	294.45	309.78	41.6	39.0	40.6	7.23	7.55	7.63
Springfield .....	217.95	239.80	240.16	39.7	39.9	39.5	5.49	6.01	6.08
<b>MONTANA</b> .....	328.75	368.48	375.32	41.3	43.3	44.0	7.96	8.51	8.53
<b>NEBRASKA</b> .....	253.38	273.65	279.64	42.3	41.4	41.8	5.99	6.61	6.69
Lincoln .....	245.46	256.23	267.60	39.4	39.0	40.0	6.23	6.57	6.69
Omaha .....	265.74	288.97	288.26	41.2	40.7	40.6	6.45	7.10	7.10
<b>NEVADA</b> .....	243.32	276.50	271.10	37.9	39.5	37.6	6.42	7.00	7.21
Las Vegas .....	313.86	349.32	(*)	38.7	38.9	(*)	8.11	8.98	(*)
<b>NEW HAMPSHIRE</b> .....	204.12	220.18	223.41	40.5	40.4	40.4	5.04	5.45	5.53
Manchester .....	181.89	193.89	197.18	39.8	38.7	39.2	4.57	5.01	5.03
Nashua .....	226.72	241.61	245.27	41.6	41.3	41.5	5.45	5.85	5.91
<b>NEW JERSEY</b> .....	261.88	273.16	280.80	41.7	41.2	41.6	6.28	6.63	6.75
Atlantic City .....	175.50	200.60	203.45	37.5	38.8	38.9	4.68	5.17	5.23
Camden <sup>5</sup> .....	253.58	268.77	274.65	40.9	40.6	41.3	6.20	6.62	6.65
Hackensack <sup>4</sup> .....	255.88	256.81	266.27	44.1	42.1	42.4	5.80	6.10	6.28
Jersey City <sup>4</sup> .....	253.49	267.65	274.44	40.3	40.8	40.9	6.29	6.56	6.71
New Brunswick—Perth Amboy—Sayreville <sup>4</sup> .....	288.81	296.68	306.34	42.1	40.2	40.9	6.86	7.38	7.49
Newark <sup>4</sup> .....	260.41	278.46	283.08	41.8	42.0	42.0	6.23	6.63	6.74
Paterson—Clifton—Passaic <sup>4</sup> .....	243.58	256.88	262.26	40.8	41.1	41.3	5.97	6.25	6.35
Trenton .....	271.34	282.69	291.17	41.3	40.5	41.3	6.57	6.98	7.05
<b>NEW MEXICO</b> .....	188.37	212.86	216.12	38.6	39.2	38.8	4.88	5.43	5.57
Albuquerque .....	192.47	215.32	218.30	39.2	39.8	38.5	4.91	5.41	5.67
<b>NEW YORK</b> .....	245.22	258.33	(*)	40.2	39.5	(*)	6.10	6.54	(*)
Albany—Schenectady—Troy .....	270.91	282.20	(*)	40.8	40.2	(*)	6.64	7.02	(*)
Binghamton .....	229.48	242.90	(*)	41.2	41.1	(*)	5.57	5.91	(*)
Buffalo .....	334.70	342.66	(*)	42.1	40.6	(*)	7.95	8.44	(*)
Elmira .....	245.83	260.34	(*)	40.3	40.3	(*)	6.10	6.46	(*)
Monroe County <sup>5</sup> .....	319.18	334.54	(*)	42.5	41.2	(*)	7.51	8.12	(*)
Nassau—Suffolk <sup>6</sup> .....	229.65	244.55	(*)	39.8	39.7	(*)	5.77	6.16	(*)
New York—Northeastern New Jersey .....	234.00	247.50	(*)	40.0	39.6	(*)	5.85	6.25	(*)
New York and Nassau—Suffolk <sup>4</sup> .....	209.66	225.34	(*)	38.4	38.0	(*)	5.46	5.93	(*)
New York SMSA <sup>6</sup> .....	204.98	220.71	(*)	38.1	37.6	(*)	5.38	5.87	(*)
New York City <sup>7</sup> .....	203.58	216.50	(*)	37.7	37.2	(*)	5.40	5.82	(*)
Poughkeepsie .....	258.58	270.94	(*)	42.6	42.6	(*)	6.07	6.36	(*)
Rochester .....	299.06	314.77	(*)	42.3	41.2	(*)	7.07	7.64	(*)
Rockland County <sup>7</sup> .....	241.53	250.85	(*)	41.5	40.2	(*)	5.82	6.24	(*)
Syracuse .....	277.44	288.97	(*)	42.1	41.4	(*)	6.59	6.98	(*)
Utica—Rome .....	240.02	247.95	(*)	41.1	39.8	(*)	5.84	6.23	(*)
Westchester County <sup>7</sup> .....	245.96	252.13	(*)	41.2	40.6	(*)	5.97	6.21	(*)
<b>NORTH CAROLINA</b> .....	182.86	193.85	200.00	40.1	39.4	40.0	4.56	4.92	5.00
Asheville .....	180.10	191.52	197.24	40.2	39.9	40.5	4.48	4.80	4.87
Charlotte—Gastonia .....	189.11	200.29	203.91	41.2	40.3	40.7	4.59	4.97	5.01
Greensboro—Winston-Salem—High Point .....	196.32	211.29	219.14	39.5	39.2	39.7	4.97	5.39	5.52
Raleigh—Durham .....	205.13	225.60	233.21	40.3	40.0	40.7	5.09	5.64	5.73
<b>NORTH DAKOTA</b> .....	237.46	241.80	246.83	40.8	40.1	40.2	5.82	6.03	6.14
Fargo—Moorhead .....	259.90	265.73	262.55	40.8	39.9	39.6	6.37	6.66	6.63
<b>OHIO</b> .....	315.88	318.65	325.86	42.4	40.8	41.3	7.45	7.81	7.89
Akron .....	309.40	315.53	320.08	42.5	41.3	41.3	7.28	7.64	7.75
Canton .....	317.46	328.86	334.56	40.7	40.6	40.9	7.80	8.10	8.18
Cincinnati .....	290.91	304.61	306.27	42.1	41.5	41.5	6.91	7.34	7.38
Cleveland .....	334.08	326.72	332.00	43.5	41.2	41.5	7.68	7.93	8.00
Columbus .....	272.69	284.62	284.65	40.7	40.2	39.7	6.70	7.08	7.17
Dayton .....	317.15	323.01	337.98	42.4	41.2	42.3	7.48	7.84	7.99
Toledo .....	325.80	327.24	341.14	42.7	40.3	41.3	7.63	8.12	8.26
Youngstown—Warren .....	376.51	367.62	374.66	42.4	39.7	40.2	8.88	9.26	9.32

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		
	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
<b>OKLAHOMA</b> .....	\$241.94	\$265.02	\$270.40	40.8	40.4	40.6	\$5.93	\$6.56	\$6.66
Oklahoma City .....	236.40	271.58	(*)	40.0	41.4	(*)	5.91	6.56	(*)
Tulsa .....	257.63	284.52	290.19	40.7	40.3	40.7	6.33	7.06	7.13
<b>OREGON</b> .....	283.39	312.02	(*)	38.4	39.1	(*)	7.38	7.98	(*)
Eugene—Springfield .....	313.23	340.90	(*)	39.4	40.2	(*)	7.95	8.48	(*)
Jackson County .....	286.15	334.06	(*)	37.9	40.2	(*)	7.55	8.31	(*)
Portland .....	270.84	297.99	(*)	38.2	38.5	(*)	7.09	7.74	(*)
<b>PENNSYLVANIA</b> .....	263.66	279.49	283.69	40.5	39.7	39.9	6.51	7.04	7.11
Allentown—Bethlehem—Easton .....	259.96	284.16	285.29	38.8	38.4	38.5	6.70	7.40	7.41
Altoona .....	218.50	239.90	243.32	38.4	39.2	39.5	5.69	6.12	6.16
Delaware Valley <sup>8</sup> .....	272.57	284.00	287.92	40.5	40.0	40.1	6.73	7.10	7.18
Erie .....	272.84	287.16	295.78	42.3	41.2	41.6	6.45	6.97	7.11
Harrisburg .....	236.56	264.55	264.38	40.3	40.7	40.8	5.87	6.50	6.48
Johnstown .....	278.10	303.03	294.88	39.9	38.8	38.0	6.97	7.81	7.76
Lancaster .....	231.58	244.41	249.29	40.7	40.6	40.8	5.69	6.02	6.11
Northeast Pennsylvania .....	191.89	200.34	203.13	37.7	37.1	37.0	5.09	5.40	5.49
Philadelphia SMSA .....	269.33	281.90	285.73	40.5	40.1	40.3	6.65	7.03	7.09
Pittsburgh .....	327.81	350.21	356.65	41.6	40.3	40.9	7.88	8.69	8.72
Reading .....	231.66	250.10	252.83	39.0	38.3	38.6	5.94	6.53	6.55
Scranton <sup>9</sup> .....	203.38	203.18	208.05	39.8	38.7	38.6	5.11	5.25	5.39
Wilkes-Barre—Hazleton <sup>10</sup> .....	182.88	196.90	197.94	36.0	35.8	35.6	5.02	5.50	5.56
Williamsport .....	230.08	247.74	252.01	39.6	39.2	39.5	5.81	6.32	6.38
York .....	245.44	261.46	263.55	42.1	41.7	41.9	5.83	6.27	6.29
<b>RHODE ISLAND</b> .....	187.15	195.71	204.09	39.4	38.3	39.4	4.75	5.11	5.18
Providence—Warwick—Pawtucket .....	190.00	195.20	204.46	40.0	38.5	39.7	4.75	5.07	5.15
<b>SOUTH CAROLINA</b> .....	196.46	210.08	216.41	41.1	40.4	41.3	4.78	5.20	5.24
Charleston—North Charleston .....	225.60	229.89	238.79	41.7	39.5	40.2	5.41	5.82	5.94
Columbia .....	187.53	207.76	211.93	39.9	39.8	40.6	4.70	5.22	5.22
Greenville—Spartanburg .....	193.99	208.28	209.60	41.1	40.6	40.7	4.72	5.13	5.15
<b>SOUTH DAKOTA</b> .....	227.04	244.80	254.07	42.2	42.5	42.7	5.38	5.76	5.95
Rapid City .....	184.10	201.25	201.08	35.2	37.2	37.1	5.23	5.41	5.42
Sioux Falls .....	299.99	337.49	362.60	45.8	47.4	47.9	6.55	7.12	7.57
<b>TENNESSEE</b> .....	207.88	219.30	223.04	39.9	39.8	39.9	5.21	5.51	5.59
Chattanooga .....	218.28	228.58	232.64	40.8	40.6	40.6	5.35	5.63	5.73
Knoxville .....	247.61	258.49	264.79	41.2	40.2	40.8	6.01	6.43	6.49
Memphis .....	240.60	261.58	271.65	40.1	41.0	41.6	6.00	6.38	6.53
Nashville—Davidson .....	225.74	238.40	246.84	40.6	40.0	40.8	5.56	5.96	6.05
<b>TEXAS</b> .....	248.53	265.27	270.27	41.7	41.0	41.2	5.96	6.47	6.56
Amarillo .....	245.10	268.84	272.00	43.0	44.0	43.8	5.70	6.11	6.21
Austin .....	190.49	201.55	203.91	41.5	40.8	40.7	4.59	4.94	5.01
Beaumont—Port Arthur—Orange .....	349.79	371.96	366.87	41.2	41.1	40.9	8.49	9.05	8.97
Corpus Christi .....	292.83	304.61	305.86	43.0	41.5	41.0	6.81	7.34	7.46
Dallas—Fort Worth .....	228.78	246.22	250.51	41.0	40.9	40.8	5.58	6.02	6.14
El Paso .....	185.77	197.11	209.30	41.1	39.9	40.8	4.52	4.94	5.13
Galveston—Texas City .....	408.58	407.77	411.20	44.8	42.3	42.7	9.12	9.64	9.63
Houston .....	317.36	334.19	334.70	44.2	42.9	42.8	7.18	7.79	7.82
Lubbock .....	182.78	197.38	198.80	40.8	40.2	40.0	4.48	4.91	4.97
San Antonio .....	178.48	195.84	198.62	39.4	40.8	40.7	4.53	4.80	4.88
Waco .....	210.08	227.29	236.64	40.4	40.3	40.8	5.20	5.64	5.80
Wichita Falls .....	209.97	245.62	242.53	39.1	40.8	39.5	5.37	6.02	6.14
<b>UTAH</b> .....	230.08	245.85	247.50	39.6	38.9	39.1	5.81	6.32	6.33
Salt Lake City—Ogden .....	222.48	231.86	234.62	39.8	39.1	39.3	5.59	5.93	5.97
<b>VERMONT</b> .....	217.88	229.04	230.16	41.5	40.9	41.1	5.25	5.60	5.60
Burlington .....	255.34	259.62	261.51	43.5	42.7	42.8	5.87	6.08	6.11
Springfield .....	248.20	266.48	272.21	42.5	41.9	42.6	5.84	6.36	6.39
<b>VIRGINIA</b> .....	208.64	225.04	230.44	40.2	39.9	40.5	5.19	5.64	5.69
Bristol .....	185.33	193.28	198.74	37.9	36.4	36.2	4.89	5.31	5.49
Lynchburg .....	219.60	220.77	234.26	41.2	38.8	40.6	5.33	5.69	5.77
Norfolk—Virginia Beach—Portsmouth .....	230.52	256.41	260.20	40.8	40.7	41.5	5.65	6.30	6.27
Northern Virginia <sup>11</sup> .....	244.36	252.98	252.32	41.0	39.1	38.7	5.96	6.47	6.52
Petersburg-Colonial Heights-Hopewell .....	244.20	291.40	277.09	38.7	39.7	38.7	6.31	7.34	7.16

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 <sup>1</sup>			Average hourly earnings		
	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
<b>VIRGINIA—Continued</b>									
Richmond .....	\$261.40	\$268.37	\$276.98	41.1	39.7	40.2	\$6.36	\$6.76	\$6.89
Roanoke .....	192.16	207.72	208.29	40.2	40.1	39.3	4.78	5.18	5.30
<b>WASHINGTON</b>									
Seattle—Everett .....	302.59	327.17	(*)	39.4	38.4	(*)	7.68	8.52	(*)
Spokane .....	304.98	329.72	(*)	39.2	38.7	(*)	7.78	8.52	(*)
Tacoma .....	266.93	292.23	(*)	39.9	38.1	(*)	6.69	7.67	(*)
	303.03	334.90	(*)	39.0	39.4	(*)	7.77	8.50	(*)
<b>WEST VIRGINIA</b>									
Charleston .....	272.05	295.96	300.53	39.6	39.2	39.7	6.87	7.55	7.57
Huntington—Ashland .....	312.01	321.77	318.98	42.8	41.2	41.0	7.29	7.81	7.78
Parkersburg—Marietta .....	300.75	326.70	331.93	40.1	39.6	39.8	7.50	8.25	8.34
Wheeling .....	278.20	303.89	314.36	39.8	40.9	41.2	6.99	7.43	7.63
	291.85	313.80	321.18	40.2	40.7	40.4	7.26	7.71	7.95
<b>WISCONSIN</b>									
Appleton—Oshkosh .....	279.00	295.39	302.04	41.1	40.9	41.3	6.79	7.22	7.32
Eau Claire .....	272.84	296.38	302.70	41.8	42.0	42.4	6.53	7.05	7.14
Green Bay .....	273.50	298.24	295.55	41.4	41.5	41.0	6.61	7.18	7.22
Kenosha .....	285.86	305.06	306.59	42.1	42.4	41.6	6.79	7.20	7.37
La Crosse .....	301.10	362.65	376.53	39.1	41.6	42.2	7.69	8.72	8.93
Madison .....	219.28	222.82	232.66	39.6	40.2	41.0	5.54	5.55	5.68
Milwaukee .....	284.70	293.36	261.99	40.2	40.2	41.7	7.08	7.30	6.29
Racine .....	309.68	328.13	332.29	41.2	40.9	41.2	7.52	8.01	8.08
	296.85	301.73	330.79	41.0	40.0	41.8	7.24	7.55	7.92
<b>WYOMING</b>									
Casper .....	244.99	250.52	244.92	38.4	37.9	36.5	6.38	6.61	6.71
Cheyenne .....	276.38	308.32	309.68	38.6	38.3	39.3	7.16	8.05	7.88
	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

<sup>1</sup> Revised to 1979 Benchmark; not strictly comparable with previously published data.

<sup>2</sup> Data for 1979 are not strictly comparable with earlier years.

<sup>3</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

<sup>4</sup> Subarea of New York-Northeastern New Jersey.

<sup>5</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>6</sup> Area included in New York and Nassau-Suffolk combined SMSA's.

<sup>7</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>8</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

<sup>9</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

<sup>10</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

<sup>11</sup> 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.
<b>Total accessions</b>													
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	P 4.4			
<b>New hires</b>													
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	P 3.4			
<b>Recalls</b>													
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	P .7			
<b>Total separations</b>													
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	P 4.6			
<b>Quits</b>													
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	2.3	1.7	1.3
1979	-	1.8	1.6	1.9	2.0	2.1	2.1	2.0	3.3	P 2.7			
<b>Layoffs</b>													
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	.9	1.0	1.4
1979	-	1.1	.8	.8	.9	.7	.8	1.4	1.3	P 1.1			

p=preliminary.

NOTE: See note to table C-1.

**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	
		Aug. 1979	Sept. 1979 <sup>P</sup>	Aug. 1979	Sept. 1979 <sup>P</sup>	Aug. 1979	Sept. 1979 <sup>P</sup>	Aug. 1979	Sept. 1979 <sup>P</sup>	Aug. 1979	Sept. 1979 <sup>P</sup>	Aug. 1979	Sept. 1979 <sup>P</sup>
-	<b>MANUFACTURING</b> .....	4.9	4.4	3.7	3.4	0.9	0.7	5.7	4.6	3.3	2.7	1.3	1.1
24, 25, 32-39	<b>DURABLE GOODS</b> .....	4.2	3.9	3.1	3.0	.8	.6	5.2	4.0	2.8	2.2	1.3	.9
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	6.0	5.2	4.5	4.0	1.2	.9	6.3	5.6	4.1	3.4	1.2	1.3
	<b>DURABLE GOODS</b>												
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	6.7	5.7	5.8	5.0	.6	.5	7.7	6.2	5.5	4.4	.8	.6
242	Sawmills and planing mills .....	5.4	-	4.6	-	.5	-	5.9	-	4.5	-	.4	-
2421	Sawmills and planing mills, general .....	4.8	-	4.2	-	.3	-	5.3	-	4.0	-	.3	-
243	Millwork, plywood, and structural members .....	7.1	-	6.1	-	.8	-	7.6	-	5.5	-	.7	-
2431	Millwork .....	6.9	-	5.4	-	1.4	-	6.5	-	4.8	-	.6	-
244	Wooden containers .....	8.4	-	7.4	-	.6	-	12.3	-	8.8	-	1.7	-
245	Wood buildings and mobile homes .....	10.7	-	10.2	-	.4	-	13.8	-	9.5	-	1.8	-
2451	Mobile homes .....	13.0	-	12.4	-	.5	-	14.7	-	10.3	-	1.1	-
249	Miscellaneous wood products .....	7.2	-	5.5	-	1.3	-	7.8	-	5.2	-	1.3	-
25	<b>FURNITURE AND FIXTURES</b> .....	6.8	5.6	5.7	5.0	1.0	.5	7.3	5.4	4.9	3.5	.9	.6
251	Household furniture .....	7.2	-	6.0	-	1.0	-	7.5	-	5.2	-	.8	-
2511	Wood household furniture .....	6.9	-	6.3	-	.5	-	7.3	-	5.6	-	.3	-
2512	Upholstered household furniture .....	6.3	-	5.4	-	.7	-	6.9	-	5.1	-	.4	-
2515	Mattresses and bedsprings .....	7.9	-	7.4	-	.4	-	7.0	-	4.7	-	.4	-
252	Office furniture .....	4.9	-	4.4	-	.5	-	5.2	-	3.5	-	.5	-
254	Partitions and fixtures .....	7.4	-	6.6	-	.6	-	8.4	-	5.3	-	1.5	-
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	4.5	3.8	3.7	3.1	.6	.6	5.8	4.5	3.5	2.6	1.1	1.0
322	Glass and glassware, pressed or blown .....	3.5	-	2.0	-	1.1	-	4.2	-	2.2	-	1.1	-
3221	Glass containers .....	2.9	-	2.1	-	.7	-	4.9	-	2.7	-	1.5	-
3229	Pressed and blown glass, nec .....	4.1	-	1.9	-	1.7	-	3.3	-	1.5	-	.9	-
323	Products of purchased glass .....	4.8	-	3.7	-	.8	-	6.5	-	3.5	-	1.6	-
324	Cement, hydraulic .....	.9	-	.8	-	.1	-	3.3	-	2.3	-	.3	-
325	Structural clay products .....	7.2	-	6.1	-	.9	-	8.9	-	6.5	-	.8	-
326	Pottery and related products .....	4.7	-	4.1	-	.4	-	5.3	-	3.3	-	.6	-
327	Concrete, gypsum, and plaster products .....	5.8	-	5.2	-	.6	-	6.7	-	4.3	-	1.1	-
329	Misc. nonmetallic mineral products .....	3.4	-	2.8	-	.4	-	5.7	-	3.0	-	1.3	-
33	<b>PRIMARY METAL INDUSTRIES</b> .....	2.7	2.2	1.7	1.5	.6	.5	4.4	3.7	1.9	1.3	1.4	1.5
331	Blast furnace and basic steel products .....	1.8	-	.9	-	.6	-	3.6	-	1.5	-	.9	-
3312	Blast furnaces and steel mills .....	1.7	-	.7	-	.6	-	3.5	-	1.3	-	.9	-
332	Iron and steel foundries .....	3.9	-	2.8	-	.7	-	6.2	-	2.5	-	2.5	-
3321	Gray iron foundries .....	3.9	-	2.7	-	.7	-	6.4	-	2.5	-	2.7	-
3325	Steel foundries, nec .....	4.0	-	3.2	-	.6	-	4.4	-	2.5	-	.5	-
333	Primary nonferrous metals .....	1.2	-	1.0	-	.1	-	2.6	-	1.8	-	.1	-
335	Nonferrous rolling and drawing .....	2.4	-	1.8	-	.3	-	3.9	-	1.6	-	1.6	-
3351	Copper rolling and drawing .....	2.6	-	2.2	-	.3	-	4.0	-	2.5	-	.6	-
3353	Aluminum sheet, plate, and foil .....	.9	-	.8	-	( <sup>1</sup> )	-	1.6	-	.4	-	.6	-
3357	Nonferrous wire drawing and insulating .....	2.7	-	1.8	-	.5	-	5.0	-	1.2	-	3.1	-
336	Nonferrous foundries .....	5.9	-	3.7	-	1.7	-	7.4	-	3.4	-	2.7	-
3361	Aluminum foundries .....	6.4	-	4.0	-	1.7	-	8.4	-	3.4	-	3.7	-
34	<b>FABRICATED METAL PRODUCTS</b> .....	4.8	4.7	3.8	3.6	.7	.8	5.9	4.5	3.3	2.5	1.5	1.1
341	Metal cans and shipping containers .....	4.0	-	2.1	-	1.4	-	5.1	-	2.7	-	1.3	-
3411	Metal cans .....	3.9	-	1.8	-	1.6	-	4.8	-	2.1	-	1.5	-
342	Cutlery, hand tools, and hardware .....	4.2	-	3.1	-	1.0	-	7.2	-	2.9	-	3.3	-
3423, 5	Hand and edge tools, and hand saws and blades .....	4.0	-	3.2	-	.7	-	4.9	-	3.1	-	.9	-
3429	Hardware, nec .....	4.2	-	3.2	-	.9	-	9.1	-	2.8	-	5.2	-
343	Plumbing and heating, except electric .....	4.7	-	3.9	-	.7	-	5.5	-	3.4	-	.8	-
344	Fabricated structural metal products .....	5.4	-	4.7	-	.5	-	5.8	-	3.9	-	.8	-
3441	Fabricated structural metal .....	5.3	-	4.6	-	.5	-	5.3	-	3.6	-	.5	-
3442	Metal doors, sash, and trim .....	8.0	-	7.0	-	1.0	-	7.5	-	5.9	-	.4	-
3443	Fabricated plate work (boiler shops) .....	2.9	-	2.5	-	.3	-	3.4	-	2.0	-	.5	-
3444	Sheet metal work .....	6.2	-	5.5	-	.6	-	7.2	-	4.3	-	1.4	-
345	Screw machine products, bolts, etc. ....	4.1	-	3.6	-	.4	-	5.6	-	3.5	-	.9	-
3451	Screw machine products .....	5.4	-	5.1	-	.3	-	6.7	-	4.8	-	.7	-
3452	Bolts, nuts, rivets, and washers .....	2.9	-	2.2	-	.6	-	4.6	-	2.4	-	1.1	-
346	Metal forgings and stampings .....	5.2	-	2.8	-	1.3	-	6.7	-	2.4	-	3.4	-
3462	Iron and steel forgings .....	2.5	-	2.3	-	.2	-	6.2	-	1.8	-	3.8	-
3465	Automotive stampings .....	7.0	-	1.3	-	2.7	-	8.5	-	1.2	-	6.7	-
3469	Metal stampings, nec .....	5.3	-	4.3	-	.7	-	6.0	-	3.6	-	1.1	-
347	Metal services, nec .....	6.6	-	5.5	-	.8	-	6.6	-	4.5	-	.9	-
348	Ordnance and accessories, nec .....	2.0	-	1.6	-	.3	-	3.0	-	1.6	-	.8	-
349	Misc. fabricated metal products .....	4.3	-	3.7	-	.4	-	5.1	-	3.3	-	.8	-
3494	Valves and pipe fittings .....	3.3	-	2.7	-	.3	-	4.3	-	2.5	-	.9	-
3496	Misc. fabricated wire products .....	7.0	-	6.0	-	.6	-	7.5	-	5.2	-	.9	-

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	
		Aug. 1979	Sept. 1979 <sup>p</sup>	Aug. 1979	Sept. 1979 <sup>p</sup>	Aug. 1979	Sept. 1979 <sup>p</sup>	Aug. 1979	Sept. 1979 <sup>p</sup>	Aug. 1979	Sept. 1979 <sup>p</sup>	Aug. 1979	Sept. 1979 <sup>p</sup>
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	3.1	3.0	2.4	2.4	0.3	0.3	3.7	3.1	2.2	1.6	0.6	0.6
351	Engines and turbines	2.1	-	1.2	-	.1	-	2.8	-	1.0	-	.8	-
3511	Turbines and turbine generator sets	2.2	-	.9	-	.1	-	2.6	-	.4	-	.6	-
3519	Internal combustion engines, nec	2.0	-	1.3	-	.2	-	2.9	-	1.3	-	.8	-
352	Farm and garden machinery	4.4	-	3.3	-	.8	-	4.2	-	2.7	-	.4	-
3523	Farm machinery and equipment	4.0	-	3.1	-	.5	-	4.2	-	2.7	-	.4	-
353	Construction and related machinery	2.9	-	2.2	-	.5	-	3.3	-	1.9	-	.5	-
3531	Construction machinery	1.9	-	1.2	-	.4	-	2.7	-	1.3	-	.6	-
3533	Oil field machinery	4.8	-	3.5	-	1.0	-	4.2	-	3.1	-	.1	-
354	Metalworking machinery	3.1	-	2.5	-	.3	-	3.8	-	2.3	-	.5	-
3541	Machine tools, metal cutting types	2.4	-	2.2	-	.1	-	2.6	-	1.8	-	.2	-
3544	Special dies, tools, jigs, and fixtures	3.3	-	2.6	-	.3	-	5.2	-	2.6	-	1.1	-
3545	Machine tool accessories	2.8	-	2.3	-	.2	-	3.5	-	2.4	-	.2	-
355	Special industry machinery	2.7	-	2.3	-	.2	-	3.4	-	2.1	-	.5	-
3551	Food products machinery	2.0	-	1.8	-	.1	-	3.1	-	2.1	-	.3	-
3552	Textile machinery	4.2	-	3.5	-	.5	-	5.3	-	2.5	-	1.8	-
356	General industrial machinery	2.6	-	2.0	-	.3	-	3.5	-	2.1	-	.6	-
3561	Pumps and pumping equipment	2.2	-	2.1	-	.1	-	3.2	-	2.1	-	.4	-
3562	Ball and roller bearings	2.1	-	1.6	-	.1	-	4.1	-	2.1	-	1.2	-
3564	Blowers and fans	3.0	-	2.6	-	.3	-	3.5	-	2.4	-	.2	-
357	Office and computing machines	2.9	-	2.5	-	.1	-	2.7	-	1.8	-	.1	-
3573	Electronic computing equipment	2.6	-	2.4	-	.1	-	2.5	-	1.6	-	.1	-
358	Refrigeration and service machinery	3.0	-	2.0	-	.6	-	5.7	-	2.3	-	2.2	-
3585	Refrigeration and heating equipment	2.6	-	1.8	-	.3	-	6.5	-	2.1	-	3.1	-
359	Misc. machinery, except electrical	4.1	-	3.5	-	.5	-	5.4	-	3.4	-	.9	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	3.8	3.9	2.8	3.0	.6	.5	4.7	3.8	2.8	2.2	.8	.6
361	Electric distributing equipment	3.9	-	2.9	-	.3	-	5.5	-	3.3	-	.6	-
3612	Transformers	4.0	-	3.1	-	.3	-	5.5	-	2.8	-	.9	-
3613	Switchgear and switchboard apparatus	3.7	-	2.7	-	.4	-	5.4	-	3.8	-	.3	-
362	Electrical industrial apparatus	3.5	-	2.2	-	.7	-	5.5	-	2.5	-	2.0	-
3621	Motors and generators	3.5	-	2.0	-	.5	-	6.1	-	2.3	-	2.7	-
3622	Industrial controls	3.1	-	2.2	-	.4	-	4.5	-	2.6	-	.7	-
363	Household appliances	5.1	-	2.9	-	1.5	-	5.3	-	3.6	-	.5	-
3632	Household refrigerators and freezers	3.6	-	1.4	-	.1	-	7.6	-	5.5	-	.3	-
3633	Household laundry equipment	2.6	-	1.8	-	.2	-	1.9	-	.9	-	.2	-
3634	Electric housewares and fans	6.1	-	4.9	-	1.0	-	6.1	-	4.9	-	.3	-
364	Electric lighting and wiring equipment	4.2	-	3.2	-	.6	-	5.5	-	3.0	-	1.3	-
3641	Electric lamps	2.5	-	1.5	-	.1	-	3.0	-	1.4	-	.4	-
3643	Current-carrying wiring devices	4.5	-	3.2	-	.9	-	4.9	-	3.4	-	.5	-
365	Radio and TV receiving equipment	3.7	-	1.9	-	.8	-	5.0	-	1.7	-	1.1	-
3651	Radio and TV receiving sets	3.0	-	1.5	-	.3	-	5.1	-	1.5	-	1.0	-
366	Communication equipment	2.4	-	1.9	-	.2	-	2.9	-	1.8	-	.3	-
3661	Telephone and telegraph apparatus	1.9	-	1.5	-	.2	-	1.7	-	1.2	-	( <sup>1</sup> )	-
3662	Radio and TV communication equipment	2.6	-	2.1	-	.2	-	3.4	-	2.1	-	.4	-
367	Electronic components and accessories	4.8	-	4.1	-	.4	-	5.5	-	4.0	-	.4	-
3671-3	Electronic tubes	3.1	-	1.5	-	1.0	-	2.5	-	1.5	-	.3	-
3674	Semiconductors and related devices	3.3	-	2.7	-	.2	-	3.5	-	2.1	-	.3	-
3679	Electronic components, nec	6.0	-	5.3	-	.4	-	6.9	-	5.3	-	.3	-
369	Misc. electrical equipment and supplies	3.7	-	2.5	-	.8	-	4.7	-	2.2	-	1.4	-
3694	Engine electrical equipment	2.5	-	1.5	-	.7	-	4.1	-	1.6	-	1.8	-
37	<b>TRANSPORTATION EQUIPMENT</b>	4.6	-	2.2	-	1.8	-	6.0	-	1.7	-	3.2	-
371	Motor vehicles and equipment	5.1	-	1.3	-	2.9	-	8.6	-	1.5	-	6.0	-
3711	Motor vehicles and car bodies	6.7	-	1.3	-	4.4	-	9.2	-	1.2	-	7.0	-
3713	Truck and bus bodies	3.6	-	3.1	-	.4	-	12.0	-	3.2	-	7.9	-
3714	Motor vehicle parts and accessories	3.9	-	.9	-	2.1	-	7.8	-	1.3	-	5.2	-
3715	Truck trailers	5.0	-	4.3	-	.5	-	8.7	-	4.6	-	1.8	-
372	Aircraft and parts	2.9	-	2.4	-	.2	-	2.5	-	1.5	-	.2	-
3721	Aircraft	2.6	-	2.2	-	.2	-	2.3	-	1.5	-	.2	-
3724	Aircraft engines and engine parts	2.5	-	1.7	-	.2	-	1.8	-	.8	-	.4	-
3728	Aircraft equipment, nec	4.3	-	3.9	-	.2	-	3.8	-	2.5	-	.1	-
373	Ship and boat building and repairing	8.0	-	4.7	-	3.1	-	8.1	-	2.9	-	3.5	-
3731	Ship building and repairing	8.5	-	4.9	-	3.5	-	7.4	-	2.6	-	3.1	-
3732	Boat building and repairing	6.4	-	4.2	-	2.0	-	10.4	-	4.0	-	5.1	-
374	Railroad equipment	2.6	-	1.5	-	.4	-	2.9	-	1.1	-	.6	-
376	Guided missiles, space vehicles, parts	2.4	-	2.1	-	.1	-	1.7	-	1.1	-	.2	-
3761	Guided missiles and space vehicles	2.3	-	2.0	-	.1	-	1.3	-	.9	-	.1	-
379	Miscellaneous transportation equipment	7.1	-	3.9	-	2.8	-	7.7	-	4.3	-	1.8	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	3.0	3.0	2.4	2.5	.3	.2	3.7	3.6	2.5	2.5	.4	.4
381	Engineering and scientific instruments	2.5	-	2.3	-	.1	-	3.1	-	2.5	-	.2	-
382	Measuring and controlling devices	3.1	-	2.6	-	.2	-	3.7	-	2.5	-	.5	-
3822	Environmental controls	3.2	-	2.2	-	.4	-	4.0	-	2.4	-	.8	-
3823	Process control instruments	2.2	-	1.9	-	.4	-	4.8	-	3.3	-	.6	-
3825	Instruments to measure electricity	3.3	-	2.9	-	.1	-	2.7	-	2.0	-	.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	
		Aug. 1979	Sept. 1979 <sup>P</sup>	Aug. 1979	Sept. 1979 <sup>P</sup>	Aug. 1979	Sept. 1979 <sup>P</sup>	Aug. 1979	Sept. 1979 <sup>P</sup>	Aug. 1979	Sept. 1979 <sup>P</sup>	Aug. 1979	Sept. 1979 <sup>P</sup>
<b>INSTRUMENTS AND RELATED PRODUCTS—Cont'd</b>													
383	Optical instruments and lenses .....	2.8	—	2.6	—	( <sup>1</sup> )	—	3.3	—	2.4	—	0.1	—
384	Medical instruments and supplies .....	3.6	—	3.0	—	0.5	—	4.6	—	3.5	—	.2	—
3841	Surgical and medical instruments .....	4.6	—	3.8	—	.6	—	5.2	—	4.1	—	.1	—
3842	Surgical appliances and supplies .....	3.1	—	2.5	—	.5	—	4.2	—	3.2	—	.3	—
385	Ophthalmic goods .....	5.6	—	2.8	—	.9	—	5.7	—	2.9	—	1.7	—
386	Photographic equipment and supplies .....	1.3	—	1.1	—	.1	—	2.1	—	1.1	—	.3	—
387	Watches, clocks, and watchcases .....	4.6	—	3.3	—	.9	—	6.2	—	3.1	—	1.2	—
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> .....	6.9	6.9	5.7	5.9	1.0	0.8	7.2	6.2	4.8	3.8	1.0	1.1
391	Jewelry, silverware, and plated ware .....	6.5	—	4.7	—	1.7	—	5.1	—	3.5	—	.8	—
393	Musical instruments .....	6.0	—	4.2	—	1.4	—	5.9	—	3.8	—	1.0	—
394	Toys and sporting goods .....	10.6	—	9.4	—	.7	—	10.3	—	6.9	—	1.2	—
3942.4	Dolls, games, toys, and children's vehicles .....	14.5	—	13.2	—	.9	—	13.2	—	9.4	—	1.2	—
3949	Sporting and athletic goods, nec .....	6.2	—	5.2	—	.5	—	7.1	—	4.1	—	1.2	—
395	Pens, pencils, office and art supplies .....	4.3	—	3.8	—	.2	—	5.3	—	3.7	—	.4	—
396	Costume jewelry and notions .....	7.2	—	5.1	—	1.8	—	5.8	—	4.5	—	.7	—
399	Miscellaneous manufactures .....	4.9	—	4.0	—	.8	—	6.4	—	4.2	—	1.0	—
<b>NONDURABLE GOODS</b>													
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	10.3	8.3	7.8	6.1	2.2	2.0	8.2	9.1	5.6	5.2	1.7	2.7
201	Meat products .....	9.1	—	7.6	—	.9	—	10.0	—	7.8	—	1.1	—
2011	Meat packing plants .....	5.6	—	4.0	—	1.2	—	6.5	—	3.6	—	2.0	—
2013	Sausages and other prepared meats .....	5.3	—	4.1	—	.9	—	5.7	—	3.7	—	1.0	—
2016	Poultry dressing plants .....	15.6	—	14.0	—	.5	—	17.5	—	15.9	—	.2	—
202	Dairy products .....	3.9	—	3.5	—	.3	—	4.8	—	3.5	—	.6	—
203	Preserved fruits and vegetables .....	27.9	—	20.1	—	7.6	—	15.2	—	9.5	—	4.5	—
204	Grain mill products .....	4.2	—	3.3	—	.8	—	4.6	—	3.1	—	.7	—
205	Bakery products .....	3.7	—	3.3	—	.3	—	4.4	—	3.1	—	.5	—
2051	Bread, cake, and related products .....	3.7	—	3.4	—	.2	—	4.4	—	3.2	—	.4	—
2052	Cookies and crackers .....	3.9	—	3.1	—	.5	—	4.8	—	2.8	—	1.1	—
206	Sugar and confectionery products .....	8.6	—	5.5	—	2.3	—	5.8	—	3.6	—	1.1	—
207	Fats and oils .....	4.2	—	3.4	—	.7	—	4.4	—	2.5	—	.7	—
208	Beverages .....	5.5	—	4.2	—	1.1	—	6.1	—	3.8	—	1.2	—
2082	Malt beverages .....	4.9	—	2.1	—	2.6	—	6.2	—	1.7	—	3.5	—
2086	Bottled and canned soft drinks .....	6.0	—	5.6	—	.3	—	6.9	—	5.2	—	.4	—
209	Misc. foods and kindred products .....	9.9	—	7.3	—	2.3	—	8.8	—	5.6	—	2.0	—
21	<b>TOBACCO MANUFACTURES</b> .....	9.7	—	4.1	—	4.4	—	3.2	—	1.8	—	.5	—
211	Cigarettes .....	2.0	—	.8	—	.7	—	2.3	—	1.4	—	.5	—
22	<b>TEXTILE MILL PRODUCTS</b> .....	5.8	4.9	4.6	4.1	.7	.5	6.5	5.2	4.4	3.6	.9	.7
221	Weaving mills, cotton .....	5.0	—	4.1	—	.2	—	5.0	—	3.5	—	.2	—
222	Weaving mills, synthetics .....	4.7	—	4.1	—	.3	—	5.8	—	4.1	—	.5	—
223	Weaving and finishing mills, wool .....	6.1	—	4.5	—	1.3	—	8.4	—	5.1	—	1.8	—
224	Narrow fabric mills .....	5.8	—	4.6	—	1.0	—	5.8	—	4.1	—	.8	—
225	Knitting mills .....	6.2	—	4.9	—	1.1	—	6.9	—	4.8	—	1.0	—
2251	Women's hosiery, except socks .....	6.5	—	6.1	—	.4	—	7.5	—	6.3	—	.4	—
2252	Hosiery, nec .....	5.4	—	4.9	—	.3	—	7.4	—	6.0	—	.5	—
2253	Knit outerwear mills .....	8.0	—	5.6	—	2.1	—	6.9	—	5.0	—	1.0	—
2254	Knit underwear mills .....	4.8	—	3.9	—	.7	—	5.5	—	4.1	—	.5	—
2257	Circular knit fabric mills .....	5.4	—	4.5	—	.6	—	7.7	—	4.1	—	1.9	—
226	Textile finishing, except wool .....	5.8	—	3.8	—	.8	—	6.2	—	3.5	—	1.3	—
227	Floor covering mills .....	5.4	—	4.6	—	.6	—	7.9	—	5.3	—	1.4	—
228	Yarn and thread mills .....	7.5	—	5.8	—	1.1	—	8.1	—	5.9	—	.8	—
229	Miscellaneous textile goods .....	4.5	—	3.4	—	.7	—	5.9	—	3.0	—	1.6	—
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b> .....	6.9	6.2	4.8	4.4	1.8	1.6	8.0	6.3	4.8	3.9	2.1	1.6
231	Men's and boys' suits and coats .....	5.0	—	2.5	—	2.1	—	5.9	—	2.6	—	2.5	—
232	Men's and boys' furnishings .....	7.4	—	6.0	—	1.1	—	7.8	—	6.3	—	.6	—
2321	Men's and boys' shirts and nightwear .....	7.4	—	6.0	—	1.0	—	7.2	—	5.7	—	.5	—
2327	Men's and boys' separate trousers .....	6.9	—	5.5	—	1.4	—	6.8	—	5.8	—	.3	—
2328	Men's and boys' work clothing .....	8.6	—	7.6	—	.8	—	9.1	—	7.8	—	.4	—
233	Women's and misses' outerwear .....	6.4	—	3.8	—	2.3	—	7.7	—	3.7	—	2.8	—
234	Women's and children's undergarments .....	7.5	—	5.0	—	1.9	—	7.2	—	5.1	—	1.0	—
2341	Women's and children's underwear .....	6.8	—	5.0	—	1.5	—	6.9	—	5.4	—	.7	—
2342	Brassieres and allied garments .....	9.9	—	4.9	—	3.2	—	8.0	—	3.8	—	2.2	—
236	Children's outerwear .....	5.6	—	3.8	—	1.7	—	8.1	—	4.5	—	2.5	—
238	Misc. apparel and accessories .....	8.0	—	5.5	—	1.8	—	7.6	—	5.7	—	.7	—
239	Misc. fabricated textile products .....	7.8	—	6.1	—	1.7	—	10.4	—	4.9	—	4.0	—
26	<b>PAPER AND ALLIED PRODUCTS</b> .....	3.3	2.9	2.7	2.4	.4	.3	4.6	3.6	2.8	2.0	.8	.6
261,2,6	Paper and pulp mills .....	1.8	—	1.3	—	.3	—	3.0	—	2.0	—	.4	—
262	Paper mills, except building paper .....	1.6	—	1.3	—	.2	—	2.8	—	2.0	—	.3	—

See footnotes at end of table.

# ESTABLISHMENT DATA

## LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		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
<b>PAPER AND ALLIED PRODUCTS—Continued</b>													
263	Paperboard mills	2.4	—	1.6	—	0.4	—	3.4	—	2.1	—	0.4	—
264	Misc. converted paper products	4.1	—	3.5	—	.4	—	5.6	—	3.5	—	1.0	—
265	Paperboard containers and boxes	4.0	—	3.4	—	.5	—	5.4	—	3.1	—	1.1	—
2651	Folding paperboard boxes	3.5	—	3.0	—	.4	—	4.9	—	2.9	—	1.1	—
2653	Corrugated and solid fiber boxes	3.8	—	3.3	—	.2	—	4.9	—	3.2	—	.5	—
27	<b>PRINTING AND PUBLISHING</b>	4.0	3.9	3.4	3.5	.4	0.4	4.8	3.8	3.4	2.6	.5	0.5
271	Newspapers	3.9	—	3.6	—	.1	—	4.8	—	3.9	—	.2	—
272	Periodicals	3.5	—	3.3	—	.1	—	3.8	—	3.0	—	.2	—
273	Books	3.3	—	2.6	—	.5	—	6.5	—	3.8	—	2.0	—
274	Miscellaneous publishing	4.2	—	3.3	—	.7	—	5.2	—	3.4	—	.9	—
275	Commercial printing	4.0	—	3.1	—	.8	—	4.1	—	2.6	—	.7	—
2751	Commercial printing, letterpress	4.5	—	3.3	—	1.1	—	4.2	—	2.9	—	.5	—
2752	Commercial printing, lithographic	3.8	—	3.1	—	.6	—	4.2	—	2.5	—	.9	—
278	Blankbooks and bookbinding	6.2	—	5.6	—	.5	—	8.0	—	5.6	—	.8	—
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	1.9	1.8	1.6	1.4	.2	.3	2.9	2.2	1.9	1.2	.4	.4
281	Industrial inorganic chemicals	1.4	—	1.1	—	.1	—	2.4	—	1.6	—	.3	—
2819	Industrial inorganic chemicals, nec	1.4	—	1.1	—	.2	—	2.4	—	1.5	—	.4	—
282	Plastics materials and synthetics	1.2	—	1.1	—	.1	—	2.2	—	1.3	—	.2	—
2821	Plastics materials and resins	1.9	—	1.7	—	(1)	—	3.4	—	2.1	—	.3	—
2824	Organic fibers, noncellulosic	.5	—	.4	—	(1)	—	1.1	—	.7	—	(1)	—
283	Drugs	1.5	—	1.3	—	.1	—	2.6	—	1.6	—	.4	—
2834	Pharmaceutical preparations	1.6	—	1.3	—	.1	—	2.5	—	1.5	—	.5	—
284	Soap, cleaners, and toilet goods	3.6	—	3.0	—	.4	—	4.5	—	2.8	—	.6	—
2841	Soap and other detergents	2.0	—	1.5	—	.4	—	2.6	—	1.1	—	.5	—
2844	Toilet preparations	5.3	—	4.3	—	.6	—	5.0	—	3.4	—	.5	—
285	Paints and allied products	2.6	—	2.4	—	.1	—	4.9	—	3.1	—	.8	—
286	Industrial organic chemicals	1.3	—	1.1	—	.1	—	2.2	—	1.5	—	.1	—
287	Agricultural chemicals	2.5	—	2.0	—	.3	—	3.4	—	2.1	—	.7	—
289	Miscellaneous chemical products	2.6	—	1.9	—	.3	—	3.5	—	2.2	—	.5	—
29	<b>PETROLEUM AND COAL PRODUCTS</b>	2.0	3.7	1.8	3.5	.1	.1	3.2	2.8	1.7	1.5	.5	.6
291	Petroleum refining	1.5	—	1.4	—	(1)	—	2.6	—	1.2	—	.5	—
295	Paving and roofing materials	4.3	—	3.6	—	.5	—	5.6	—	3.7	—	.5	—
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b>	5.5	5.2	4.5	4.2	.7	.5	7.4	6.0	4.5	3.5	1.6	1.3
301	Tires and inner tubes	1.4	—	.7	—	.3	—	3.8	—	1.1	—	1.7	—
302	Rubber and plastics footwear	9.8	—	7.6	—	1.7	—	10.2	—	6.9	—	.7	—
303,4	Reclaimed rubber, and rubber and plastics hose and belting	3.5	—	2.7	—	.4	—	5.1	—	3.3	—	1.1	—
306	Fabricated rubber products, nec	4.4	—	2.9	—	1.0	—	6.9	—	3.3	—	2.1	—
307	Miscellaneous plastics products	6.7	—	5.7	—	.7	—	8.4	—	5.5	—	1.5	—
31	<b>LEATHER AND LEATHER PRODUCTS</b>	10.7	6.9	6.5	5.4	3.7	1.1	10.7	8.2	6.7	5.0	2.5	2.2
311	Leather tanning and finishing	6.5	—	4.0	—	2.2	—	10.6	—	3.9	—	5.6	—
314	Footwear, except rubber	11.3	—	7.0	—	3.8	—	11.5	—	7.7	—	2.2	—
3143	Men's footwear, except athletic	9.4	—	6.1	—	2.9	—	10.9	—	7.2	—	2.2	—
3144	Women's footwear, except athletic	13.1	—	7.3	—	5.0	—	12.8	—	8.1	—	2.7	—
<b>NONMANUFACTURING:</b>													
—	<b>MINING</b>	5.6	5.1	4.1	3.8	.7	.9	5.6	4.9	3.6	3.3	.6	.4
10	<b>METAL MINING</b>	3.5	2.9	2.7	2.4	.4	.1	5.6	2.8	2.8	1.5	1.6	.3
101	Iron ores	3.1	—	1.2	—	.6	—	4.5	—	1.4	—	1.1	—
102	Copper ores	2.5	—	2.1	—	.3	—	3.2	—	.8	—	1.7	—
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b>	1.7	2.1	1.0	1.0	.5	.8	2.3	2.0	1.0	.8	.8	.7
13	<b>OIL AND GAS EXTRACTION</b>	8.7	7.7	6.5	6.0	1.0	1.3	7.8	7.4	5.5	5.3	.5	.2
131, 2	Crude petroleum, natural gas, and natural gas liquids	2.1	—	1.5	—	.3	—	3.8	—	2.2	—	.2	—
138	Oil and gas field services	13.6	—	10.1	—	1.5	—	10.7	—	7.9	—	.7	—
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b>	3.3	3.1	2.9	2.5	.3	.3	3.7	3.0	2.6	2.1	.3	.3
142	Crushed and broken stone	3.5	—	2.9	—	.5	—	3.5	—	2.6	—	.3	—
144	Sand and gravel	4.0	—	3.7	—	.3	—	4.7	—	3.2	—	.6	—
—	<b>COMMUNICATION:</b>												
481	Telephone communication	1.2	—	.9	—	(1)	—	1.5	—	.8	—	.4	—

<sup>1</sup> Less than 0.05.

P=preliminary.

**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.
<b>Total accessions</b>												
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	p3.8			
<b>New hires</b>												
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	p2.8			
<b>Total separations</b>												
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	p3.9			
<b>Quits</b>												
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	p1.9			
<b>Layoffs</b>												
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	.9	.9	.9
1979	.9	.9	.9	1.1	1.0	1.1	1.2	1.5	p1.2			

p=preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, data beginning in 1974 may differ from data published earlier. See article in the October issue for additional information, and the November Supplement for revised data.

**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	
	July 1979	Aug. 1979 <sup>P</sup>	July 1979	Aug. 1979 <sup>P</sup>	July 1979	Aug. 1979 <sup>P</sup>	July 1979	Aug. 1979 <sup>P</sup>	July 1979	Aug. 1979 <sup>P</sup>	July 1979	Aug. 1979 <sup>P</sup>
<b>ALABAMA:</b>												
Birmingham .....	3.3	2.9	1.8	2.0	1.2	0.5	2.9	3.3	1.1	1.5	1.0	0.8
Mobile .....	4.8	6.2	2.1	1.8	2.7	4.4	4.3	4.5	1.2	1.2	2.5	2.3
<b>ALASKA</b> .....	30.0	(*)	29.0	(*)	.7	(*)	19.3	(*)	10.1	(*)	7.5	(*)
<b>ARIZONA</b> .....	5.5	6.1	4.9	5.5	.4	.5	4.7	5.9	3.1	4.0	.4	.8
Phoenix .....	5.6	6.3	5.1	5.7	.4	.5	4.9	5.8	3.2	3.7	.5	.9
<b>ARKANSAS</b> .....	6.8	7.8	5.1	6.5	1.3	.9	6.9	9.9	4.5	7.2	1.2	1.3
Fort Smith .....	5.1	4.7	4.1	3.6	.3	.4	6.7	12.1	4.3	8.9	.9	2.1
Little Rock—North Little Rock .....	4.5	5.4	3.7	4.9	.7	.3	5.1	6.1	2.7	4.4	.6	.1
Pine Bluff .....	2.9	4.3	2.4	3.8	.4	.4	3.7	5.3	2.3	3.9	.6	.5
<b>COLORADO</b> .....	5.6	6.9	4.9	6.4	.6	.3	4.2	7.0	3.0	5.1	.3	.3
Denver—Boulder .....	4.6	5.3	4.3	4.9	.2	.2	3.9	6.2	2.8	3.9	.2	.3
<b>CONNECTICUT</b> .....	2.7	3.0	2.2	2.6	.3	.2	2.4	3.8	1.4	2.4	.3	.3
Hartford .....	2.8	(*)	2.3	(*)	.3	(*)	2.2	(*)	1.3	(*)	.3	(*)
<b>DELAWARE</b> .....	2.4	6.9	1.4	1.4	.5	5.4	1.9	7.4	.8	1.4	.6	5.4
Wilmington .....	2.2	6.7	1.2	1.1	.5	5.5	1.7	7.2	.7	1.1	.6	5.6
<b>FLORIDA</b> .....	6.2	5.8	4.8	4.8	1.2	.8	5.9	6.1	3.4	4.3	1.2	.7
Fort Lauderdale—Hollywood .....	6.5	7.8	6.1	7.6	.2	.1	6.3	8.0	4.2	6.1	.7	.7
Jacksonville .....	11.3	11.1	3.2	3.7	8.0	7.4	4.8	4.9	1.9	2.8	2.3	1.6
Miami .....	6.6	5.9	5.1	5.4	1.5	.5	6.7	7.0	3.9	4.8	1.6	1.5
Orlando .....	5.1	3.8	4.6	3.4	.2	.4	6.9	5.7	2.9	3.9	2.9	.8
Pensacola .....	1.3	3.4	1.2	2.5	( <sup>1</sup> )	.3	2.9	3.9	.9	2.8	1.3	.2
Tampa—St. Petersburg .....	7.7	7.0	6.8	6.6	.8	.3	6.8	7.5	4.4	5.7	.9	.3
West Palm Beach—Boca Raton .....	8.4	7.5	6.7	7.0	1.6	.3	4.1	5.7	2.7	4.5	( <sup>1</sup> )	( <sup>1</sup> )
<b>GEORGIA</b> .....	4.3	5.1	3.5	4.4	.4	.4	4.0	5.3	2.7	3.9	.4	.3
Atlanta <sup>2</sup> .....	4.3	4.6	3.5	3.9	.6	.3	3.7	4.2	2.1	2.7	.7	.4
<b>HAWAII</b> <sup>3</sup> .....	2.6	3.1	1.8	1.6	.7	1.3	3.3	4.5	1.5	1.9	1.3	2.0
<b>IDAHO</b> <sup>4</sup> .....	4.6	5.8	4.2	5.0	.2	.4	4.2	6.6	2.6	4.4	.7	.4
<b>ILLINOIS:</b>												
Chicago SMSA .....	3.1	4.1	2.6	3.5	.3	.4	3.3	5.2	1.8	3.3	.4	.5
<b>INDIANA</b> <sup>5</sup> .....	2.8	3.4	1.7	2.2	.7	.6	3.9	5.7	1.3	2.5	1.8	2.0
Indianapolis <sup>6</sup> .....	2.6	3.4	1.9	2.7	.2	.2	2.9	8.0	1.1	2.3	.8	4.5
<b>IOWA</b> .....	3.5	4.1	2.4	3.2	.7	.5	3.1	5.3	1.7	3.5	.7	1.0
Cedar Rapids .....	2.2	4.2	1.4	2.7	.6	.8	2.2	3.6	1.1	2.3	.5	.6
Des Moines .....	3.1	5.0	2.1	3.2	( <sup>1</sup> )	.4	4.1	6.6	2.5	3.0	.1	1.4
<b>KANSAS</b> .....	5.4	7.9	4.8	5.4	.4	2.3	7.2	9.4	3.5	5.5	2.6	2.8
Topeka .....	3.9	2.8	3.1	2.6	.8	.1	6.7	6.9	2.5	4.1	3.7	2.0
Wichita .....	5.5	6.0	4.7	5.5	.4	.3	4.5	6.4	3.4	5.1	( <sup>1</sup> )	.1
<b>KENTUCKY</b> .....	3.5	4.4	2.4	2.9	.6	1.1	4.0	5.3	1.7	3.0	1.3	1.1
Louisville .....	2.3	2.7	1.4	1.5	.4	.4	1.6	3.2	.8	1.7	.2	.2
<b>LOUISIANA:</b>												
New Orleans .....	3.8	5.1	3.3	4.4	.4	.5	5.6	6.2	3.0	3.9	1.4	.8
<b>MAINE</b> .....	5.5	7.5	4.1	5.5	1.2	1.8	6.8	7.9	2.8	4.8	3.1	1.9
Portland .....	3.4	3.9	2.8	3.0	.4	.5	3.6	6.8	2.3	4.2	.5	1.7
<b>MARYLAND</b> .....	3.7	5.2	2.5	2.3	1.0	2.8	3.4	5.7	1.3	2.1	1.5	2.6
Baltimore .....	3.1	5.8	2.1	2.0	.8	3.6	3.4	6.1	1.0	1.7	1.7	3.5
<b>MASSACHUSETTS</b> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Boston .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>MICHIGAN</b> .....	2.5	3.0	1.4	1.8	.7	.9	6.6	5.8	1.0	1.5	4.5	3.3
Detroit .....	2.0	2.3	1.1	1.3	.5	.5	8.2	5.7	.9	1.4	6.5	3.4
Flint .....	1.3	1.8	1.1	1.4	( <sup>1</sup> )	( <sup>1</sup> )	3.2	5.4	.4	.5	1.9	3.8
Grand Rapids .....	3.1	4.7	2.5	3.8	.3	.3	4.1	5.2	1.4	2.8	1.6	1.2
Lansing—East Lansing .....	.6	.9	.5	.5	( <sup>1</sup> )	.3	1.1	3.0	.1	.8	.8	.6

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA LABOR TURNOVER**

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

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	July 1979	Aug. 1979 <sup>P</sup>	July 1979	Aug. 1979 <sup>P</sup>	July 1979	Aug. 1979 <sup>H</sup>	July 1979	Aug. 1979 <sup>P</sup>	July 1979	Aug. 1979 <sup>P</sup>	July 1979	Aug. 1979 <sup>F</sup>
<b>MINNESOTA</b> .....	4.2	5.6	3.6	4.7	0.4	0.7	3.4	5.9	2.3	4.4	0.5	0.7
Minneapolis—St. Paul .....	3.8	3.9	3.4	3.4	.2	.3	2.9	4.8	2.1	3.6	.2	.5
<b>MISSISSIPPI:</b>												
Jackson .....	6.9	6.6	3.6	5.7	3.1	.8	5.9	7.9	3.8	5.8	.8	.7
<b>MISSOURI</b> .....	3.1	3.4	2.4	2.8	.5	.4	3.3	6.2	1.8	3.4	.8	1.8
Kansas City .....	3.5	3.4	3.0	3.1	.3	.3	6.7	8.2	2.0	3.4	3.8	3.9
St. Louis .....	2.5	2.7	1.8	2.0	.6	.6	2.5	5.7	1.1	2.3	.7	2.3
<b>MONTANA</b> .....	3.0	3.1	2.6	2.9	.2	.2	2.0	3.0	1.7	2.1	.2	.2
<b>NEBRASKA</b> .....	3.9	4.8	3.5	4.4	.2	.2	3.7	6.2	2.7	4.9	.3	.4
<b>NEVADA</b> .....	8.4	8.9	7.5	8.5	.5	.2	7.3	10.5	5.1	7.2	.6	1.4
<b>NEW HAMPSHIRE</b> .....	6.1	7.7	4.7	5.3	1.3	2.2	7.4	7.3	3.5	5.5	3.0	.8
<b>NEW JERSEY:</b>												
Camden <sup>T</sup> .....	3.7	4.0	2.0	2.9	1.5	.8	4.4	4.3	1.0	2.1	2.4	.8
Hackensack .....	4.9	6.0	3.3	3.7	1.4	2.1	7.4	6.7	2.2	3.5	4.3	1.6
Jersey City .....	4.5	3.9	2.0	2.9	2.0	.9	3.7	3.7	1.2	2.0	1.7	.8
Newark .....	3.3	6.5	2.1	2.6	.9	3.6	6.3	4.9	1.2	2.4	3.0	1.4
New Brunswick—Perth Amboy—Sayreville .....	4.7	4.7	2.6	3.3	1.8	1.1	6.1	5.2	1.5	2.9	3.5	.7
Paterson—Clifton—Passaic .....	6.0	5.0	2.5	2.9	1.9	2.0	8.4	5.6	1.5	3.0	5.8	1.6
Trenton .....	3.8	4.1	1.8	2.1	1.5	1.7	6.0	4.5	1.2	2.0	3.8	1.6
<b>NEW YORK</b> .....	4.5	5.1	2.6	3.0	1.7	1.8	5.2	5.3	1.3	2.4	3.0	1.9
Albany—Schenectady—Troy .....	3.0	3.9	1.7	2.5	.8	.8	3.1	3.5	1.0	1.9	1.0	.6
Binghamton .....	2.5	5.3	2.0	2.3	.5	2.8	5.0	4.0	1.3	2.7	2.6	.3
Buffalo .....	2.8	4.3	2.1	1.5	.6	2.4	3.8	6.8	.7	1.6	2.3	4.2
Elmira .....	2.8	4.6	2.3	2.9	.3	1.4	3.5	3.9	.7	2.3	1.4	.9
Monroe County <sup>8</sup> .....	2.1	2.0	1.6	1.5	.3	.4	2.7	3.6	.8	1.6	1.3	1.3
Nassau—Suffolk <sup>9</sup> .....	5.1	5.5	3.6	4.6	1.4	.8	5.1	6.3	2.3	4.1	1.8	.8
New York and Nassau—Suffolk .....	5.3	5.8	3.0	3.6	2.2	2.1	6.6	5.6	1.6	2.4	4.0	2.0
New York SMSA <sup>9</sup> .....	5.4	5.8	2.8	3.3	2.4	2.4	7.0	5.4	1.4	1.9	4.6	2.2
New York City <sup>10</sup> .....	5.8	6.2	3.0	3.4	2.7	2.7	7.8	5.6	1.4	1.8	5.3	2.5
Rochester .....	3.4	3.1	2.2	2.4	1.0	.6	3.0	4.3	.9	2.1	1.5	1.4
Syracuse .....	2.8	3.4	1.7	2.0	.9	1.2	3.0	4.8	1.0	2.2	1.3	1.8
Utica—Rome .....	2.9	5.3	1.8	2.5	1.0	2.1	5.0	3.7	1.2	2.4	3.3	.5
Westchester County <sup>10</sup> .....	3.0	3.4	2.0	2.9	.8	.2	2.5	3.7	1.2	2.2	.6	.5
<b>NORTH CAROLINA</b> .....	4.4	5.6	3.7	4.7	.3	.5	4.2	6.1	3.0	4.7	.3	.5
Charlotte—Gastonia .....	5.6	6.3	5.0	5.5	.3	.4	5.3	7.8	4.3	5.9	.1	.7
Greensboro—Winston-Salem—High Point .....	3.9	4.9	3.3	4.3	.2	.2	3.4	5.9	2.5	4.6	.2	.3
<b>NORTH DAKOTA</b> .....	5.0	6.3	4.4	5.5	.2	.6	6.4	11.4	4.4	6.5	.6	3.6
Fargo—Moorhead .....	4.1	5.2	3.5	4.6	.2	.2	3.4	6.8	1.8	5.6	.4	.3
<b>OHIO</b> .....	2.4	3.7	1.5	1.9	(*)	(*)	3.2	4.5	.9	1.7	1.4	1.8
Akron .....	2.0	2.1	1.4	1.5	(*)	(*)	3.7	2.8	.9	1.4	1.8	.5
Canton .....	2.4	2.6	1.6	1.9	(*)	(*)	2.2	3.3	.8	2.0	.3	.5
Cincinnati .....	2.8	5.9	1.8	2.3	(*)	(*)	2.9	6.1	1.0	1.8	.9	3.4
Cleveland .....	2.7	3.4	1.8	1.9	(*)	(*)	3.3	3.7	1.1	1.8	1.1	.8
Columbus .....	2.3	2.8	1.6	1.9	(*)	(*)	2.3	3.9	1.0	1.7	.6	1.4
Dayton .....	1.9	2.5	1.4	1.5	(*)	(*)	3.0	4.8	1.0	1.6	1.1	2.4
Toledo .....	2.4	2.7	1.3	1.2	(*)	(*)	2.7	4.4	.8	1.3	.9	2.0
Youngstown—Warren .....	2.2	2.3	.9	.7	(*)	(*)	1.8	6.2	.5	1.0	.3	4.0
<b>OKLAHOMA</b> .....	6.4	7.9	5.8	7.2	.4	.4	5.9	8.7	4.4	6.8	.4	.5
Oklahoma City .....	7.0	7.3	6.4	6.6	.5	.5	5.8	8.1	4.4	6.5	.3	.4
Tulsa <sup>11</sup> .....	5.4	8.0	4.9	7.4	.4	.3	5.4	8.2	3.6	6.1	.4	.3
<b>OREGON</b> <sup>11</sup> .....	4.4	4.2	3.6	3.7	.7	.4	3.8	4.6	2.4	3.0	.6	.5
Eugene—Springfield <sup>11</sup> .....	3.4	(*)	2.6	(*)	.6	(*)	3.2	(*)	1.7	(*)	.8	(*)
Portland <sup>11</sup> .....	4.9	5.1	3.9	4.4	.9	.5	4.1	4.8	2.4	3.4	.8	.4
<b>PENNSYLVANIA</b> .....	3.2	3.4	1.8	2.1	1.1	1.0	3.3	4.1	1.1	2.2	1.6	1.1
Allentown—Bethlehem—Easton .....	3.3	2.6	1.7	1.6	1.4	.8	3.3	3.0	.8	1.5	2.0	.9
Altoona .....	1.5	1.9	1.0	1.2	.4	.5	3.7	3.5	.7	1.4	2.6	1.8
Erie .....	4.0	3.4	1.5	1.6	2.2	1.3	3.7	2.9	.9	1.4	1.8	.7
Harrisburg .....	5.3	4.7	3.3	3.9	1.6	.7	2.6	4.9	1.5	3.3	.6	.9
Johnstown .....	2.8	2.7	1.2	.9	1.5	1.6	3.3	3.0	.8	1.2	1.4	1.0
Lancaster .....	3.0	3.7	2.3	3.2	.5	.3	3.1	5.8	2.0	4.1	.6	1.1

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	
	July 1979	Aug. 1979 <sup>p</sup>	July 1979	Aug. 1979 <sup>p</sup>	July 1979	Aug. 1979 <sup>p</sup>	July 1979	Aug. 1979 <sup>p</sup>	July 1979	Aug. 1979 <sup>p</sup>	July 1979	Aug. 1979 <sup>p</sup>
<b>PENNSYLVANIA—Continued</b>												
Northeast Pennsylvania .....	4.6	5.2	1.5	2.2	2.7	2.7	5.7	5.4	1.1	2.4	4.0	2.5
Philadelphia SMSA .....	3.2	3.4	2.0	2.3	1.0	.9	3.0	4.1	1.1	2.1	1.2	.9
Pittsburgh .....	2.6	2.3	1.6	1.3	.7	.6	2.6	3.6	.6	1.8	1.1	1.0
Reading .....	4.8	4.5	2.0	2.7	2.7	1.8	5.4	4.1	1.4	2.5	3.4	.7
Scranton <sup>12</sup> .....	4.8	5.5	1.2	2.3	3.5	3.1	4.9	3.8	.8	2.0	3.8	1.5
Wilkes-Barre—Hazleton <sup>12</sup> .....	3.9	3.4	1.3	1.8	1.9	1.4	6.2	5.4	1.1	2.2	4.3	2.7
Williamsport .....	1.7	2.3	.5	.7	1.1	.8	3.9	3.3	.7	1.3	2.9	1.4
York .....	4.2	4.2	2.4	3.1	1.6	1.0	3.7	4.4	1.7	3.3	1.4	.5
<b>RHODE ISLAND</b>												
Providence—Warwick—Pawtucket .....	8.7	6.8	3.5	5.2	4.8	1.3	9.4	6.8	3.0	4.6	5.5	1.1
.....	8.2	7.0	3.3	5.4	4.8	1.2	8.5	7.1	2.6	4.8	5.2	1.2
<b>SOUTH CAROLINA</b>												
Charleston—North Charleston .....	4.5	5.1	3.3	4.2	.8	.4	4.7	6.0	2.6	4.0	1.1	.8
Columbia .....	4.4	8.2	4.0	4.2	.4	3.8	9.3	10.0	1.9	3.8	6.2	4.0
Greenville—Spartanburg .....	3.5	5.8	3.0	5.5	.3	.1	3.4	5.1	2.3	3.6	.2	( <sup>1</sup> )
.....	4.4	6.0	3.8	5.1	.2	.3	4.5	6.9	3.0	4.7	.4	.7
<b>SOUTH DAKOTA</b>												
Sioux Falls .....	5.1	6.0	4.6	5.6	.2	.2	3.9	7.2	3.0	5.9	.3	.1
.....	5.1	6.1	5.0	6.1	( <sup>1</sup> )	( <sup>1</sup> )	3.6	7.5	2.6	6.2	.3	( <sup>1</sup> )
<b>TENNESSEE:</b>												
Memphis .....	3.0	3.3	2.3	2.6	.5	.4	3.1	4.0	1.5	2.3	.8	.6
<b>TEXAS:</b>												
Dallas—Fort Worth .....	6.0	(*)	5.6	(*)	.2	(*)	5.5	(*)	4.1	(*)	.3	(*)
Houston .....	4.4	(*)	4.1	(*)	.2	(*)	4.1	(*)	2.9	(*)	.2	(*)
San Antonio .....	5.2	(*)	4.9	(*)	.2	(*)	4.8	(*)	3.7	(*)	.1	(*)
<b>UTAH<sup>4</sup></b>												
Salt Lake City—Ogden <sup>4</sup> .....	5.2	7.5	4.7	5.8	.2	1.2	4.9	7.7	3.3	5.1	.4	1.3
.....	4.8	5.0	4.5	3.4	.1	1.5	4.3	5.4	3.1	3.1	.2	1.6
<b>VERMONT</b>												
Burlington .....	5.2	3.9	2.7	2.8	2.1	.8	4.7	5.5	1.8	2.9	2.2	1.7
Springfield .....	2.6	2.7	2.3	2.3	.1	.2	2.8	2.9	1.1	1.3	1.2	1.1
.....	3.1	2.9	2.0	2.6	1.0	.3	2.6	5.7	1.1	1.9	1.0	2.3
<b>VIRGINIA</b>												
Richmond .....	3.4	4.7	2.6	3.6	.6	.8	3.0	4.4	1.8	2.9	.4	.5
.....	1.6	3.2	1.2	2.4	.4	.5	1.6	2.7	.8	1.5	.2	.4
<b>WASHINGTON:</b>												
Seattle—Everett <sup>13</sup> .....	3.8	4.7	3.3	3.8	.4	.8	3.0	3.4	1.9	2.1	.5	.6
<b>WISCONSIN</b>												
Milwaukee .....	5.0	4.6	3.2	3.4	1.4	.7	3.7	5.4	1.5	3.3	1.3	1.0
.....	3.9	3.5	1.9	2.5	1.5	.4	4.3	4.4	1.3	2.4	1.6	.7
<b>WYOMING</b>												
.....	6.8	8.8	6.4	8.2	.4	.5	8.5	10.3	6.1	8.1	.1	.6

<sup>1</sup> Less than 0.05.

<sup>2</sup> Excludes agricultural chemicals, and miscellaneous manufacturing.

<sup>3</sup> Excludes canned fruits, vegetables, preserves, jams, and jellies.

<sup>4</sup> Excludes canning and preserving, and sugar.

<sup>5</sup> Excludes canning and preserving, and newspapers.

<sup>6</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

<sup>7</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>8</sup> Area included in New York and Nassau-Suffolk combined SMSA's.

<sup>9</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>10</sup> Excludes new-hire rate for transportation equipment.

<sup>11</sup> Excludes canning and preserving.

<sup>12</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

<sup>13</sup> Excludes canning and preserving, printing and publishing.

<sup>p</sup>—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					
	SEPT. 1978	AUG. 1979	SEPT. 1979P	Number			Percent of labor force		
				SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
<b>ALABAMA</b> .....	1,612.4	1,637.7	1,659.2	93.2	117.0	116.4	5.8	7.1	7.0
Birmingham .....	373.0	381.8	387.9	19.7	23.1	23.9	5.3	6.0	6.2
Huntsville .....	135.4	139.5	141.8	7.7	10.2	9.9	5.7	7.3	7.0
Mobile .....	180.8	183.2	183.5	12.2	16.1	17.3	6.7	8.8	9.4
Montgomery .....	115.7	121.0	121.6	6.3	7.1	6.9	5.5	5.9	5.7
Tuscaloosa .....	51.1	51.3	51.8	2.8	3.0	2.9	5.6	5.9	5.5
<b>ALASKA</b> .....	185.8	193.5	188.9	17.5	13.2	12.6	9.4	6.8	6.7
<b>ARIZONA</b> .....	995.6	1,018.4	1,039.3	57.7	50.8	50.1	5.8	5.0	4.8
Phoenix .....	598.6	616.4	627.2	30.3	25.7	25.9	5.1	4.2	4.1
Tucson .....	179.1	182.4	187.2	9.3	7.1	7.3	5.2	3.9	3.9
<b>ARKANSAS</b> .....	943.5	1,002.2	989.5	52.8	61.8	60.0	5.6	6.2	6.1
Fayetteville—Springdale .....	72.0	76.9	76.3	2.7	3.1	3.2	3.7	4.1	4.2
Fort Smith <sup>1</sup> .....	83.4	84.5	83.8	5.3	6.6	6.5	6.3	7.8	7.7
Little Rock—North Little Rock .....	176.7	191.6	186.8	9.0	8.7	8.3	5.1	4.5	4.5
Pine Bluff .....	37.4	38.7	38.6	2.3	2.4	2.4	6.1	6.2	6.2
<b>CALIFORNIA</b> <sup>2</sup> .....	10,701.9	11,119.3	10,995.5	682.9	705.5	671.1	6.4	6.3	6.1
Anaheim—Santa Ana—Garden Grove .....	985.1	1,084.8	1,059.8	46.9	48.6	48.8	4.8	4.5	4.6
Bakersfield .....	170.1	183.5	175.6	14.5	14.1	14.0	8.6	7.7	8.0
Fresno .....	286.4	284.3	307.5	19.1	19.4	19.2	6.7	6.8	6.2
Los Angeles—Long Beach <sup>2</sup> .....	3,538.0	3,478.0	3,463.0	207.0	210.0	189.0	5.8	6.0	5.5
Modesto .....	132.1	143.7	140.5	9.0	11.3	8.3	6.8	7.9	5.9
Oxnard—Simi Valley—Ventura .....	208.3	219.5	213.6	18.1	18.2	18.5	8.7	8.3	8.7
Riverside—San Bernardino—Ontario .....	541.2	573.7	568.1	41.6	43.9	44.5	7.7	7.7	7.8
Sacramento .....	437.9	478.9	465.9	28.2	33.5	29.9	6.4	7.0	6.4
Salinas—Seaside—Monterey .....	125.3	132.5	129.1	7.0	8.9	8.2	5.6	6.7	6.4
San Diego .....	687.1	735.5	726.2	42.2	44.9	45.3	6.1	6.1	6.2
San Francisco—Oakland .....	1,559.7	1,642.6	1,616.3	100.9	98.6	99.3	6.5	6.0	6.1
San Jose .....	661.2	716.1	698.4	36.1	35.0	32.9	5.5	4.9	4.7
Santa Barbara—Santa Maria—Lompoc .....	135.4	141.7	139.2	9.6	9.6	10.9	7.1	6.8	7.9
Santa Rosa .....	117.9	127.2	124.2	7.7	8.2	8.1	6.6	6.4	6.5
Stockton .....	164.9	171.1	173.0	11.9	14.0	11.2	7.2	8.2	6.5
Vallejo—Fairfield—Napa .....	119.4	125.8	123.4	7.3	8.4	8.1	6.1	6.6	6.6
<b>COLORADO</b> .....	1,311.7	1,387.5	1,395.0	66.2	60.5	58.5	5.0	4.4	4.2
Denver—Boulder .....	764.7	810.9	821.7	37.3	33.0	33.0	4.9	4.1	4.0
<b>CONNECTICUT</b> .....	1,522.0	1,581.9	1,580.1	69.0	75.8	71.8	4.5	4.8	4.5
Bridgeport .....	185.7	191.5	191.8	9.3	9.4	9.2	5.0	4.9	4.8
Hartford .....	366.0	380.1	378.5	15.1	16.6	14.9	4.1	4.4	3.9
New Britain .....	69.6	72.3	72.7	2.9	3.4	3.2	4.1	4.7	4.4
New Haven—West Haven .....	195.4	205.9	205.7	8.2	10.7	9.7	4.2	5.2	4.7
Stamford .....	118.9	122.7	121.9	4.9	4.4	4.8	4.1	3.6	4.0
Waterbury .....	108.2	110.8	111.2	5.7	5.7	5.8	5.2	5.1	5.2
<b>DELAWARE</b> .....	275.0	276.0	269.0	18.6	22.4	17.5	6.8	8.1	6.5
Wilmington <sup>1</sup> .....	237.4	239.5	235.9	15.3	19.0	14.7	6.4	8.0	6.2
<b>DISTRICT OF COLUMBIA</b> .....	327.4	321.3	314.0	25.6	23.9	20.4	7.8	7.4	6.5
Washington SMSA <sup>1</sup> .....	1,560.8	1,601.2	1,582.3	71.2	73.2	68.6	4.6	4.6	4.3
<b>FLORIDA</b> <sup>2</sup> .....	3,775.2	3,833.6	3,812.8	287.0	232.8	246.0	7.6	6.1	6.5
Fort Lauderdale—Hollywood .....	381.4	390.9	386.6	27.1	20.0	20.8	7.1	5.1	5.4
Jacksonville .....	310.0	312.3	314.7	20.3	16.8	18.2	6.5	5.4	5.8
Miami .....	705.8	718.6	711.8	53.9	40.4	42.5	7.6	5.6	6.0
Orlando .....	303.3	309.8	310.4	22.7	18.5	19.5	7.5	6.0	6.3
Pensacola .....	114.2	114.0	112.8	7.0	5.6	6.5	6.1	4.9	5.7
Tampa—St. Petersburg .....	577.8	578.8	576.3	38.4	30.0	31.4	6.7	5.2	5.4
West Palm Beach—Boca Raton .....	209.8	218.6	216.4	18.5	15.8	15.9	8.9	7.2	7.3
<b>GEORGIA</b> .....	2,337.8	2,369.7	2,354.9	130.6	130.0	114.3	5.6	5.5	4.9
Albany .....	48.6	51.0	50.8	3.3	3.1	3.1	6.8	6.2	6.0
Atlanta .....	912.2	913.2	914.3	49.0	50.0	40.8	5.4	5.5	4.5
Augusta .....	126.2	127.1	127.4	7.7	7.2	7.2	6.1	5.7	5.7
Columbus <sup>1</sup> .....	85.7	88.9	88.6	6.0	5.9	5.8	7.0	6.6	6.5
Macon .....	102.6	101.5	100.5	6.3	5.8	5.6	6.1	5.8	5.6
Savannah .....	91.8	90.8	89.9	5.7	5.1	4.9	6.2	5.7	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		
	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
<b>HAWAII</b> .....									
Honolulu .....	389.4	403.6	394.2	31.4	23.8	23.3	8.1	5.9	5.9
.....	306.7	316.0	309.4	24.5	18.3	18.0	8.0	5.8	5.8
<b>IDAHO</b> .....	419.1	423.8	416.9	20.9	22.1	19.4	5.0	5.2	4.7
Boise City .....	89.5	88.3	86.5	2.8	3.3	3.1	3.1	3.9	3.6
<b>ILLINOIS<sup>2</sup></b> .....	5,326.9	5,414.8	5,372.4	272.0	251.6	304.2	5.1	4.6	5.7
Bloomington—Normal .....	60.4	58.0	59.9	1.7	1.5	1.7	2.8	2.7	2.9
Champaign—Urbana—Rantoul .....	77.7	77.5	79.8	3.1	2.9	3.4	4.0	3.7	4.2
Chicago .....	3,395.9	3,476.8	3,444.0	172.9	152.8	188.8	5.1	4.4	5.5
Davenport—Rock Island—Moline <sup>1</sup> .....	180.7	183.6	180.7	7.6	6.5	6.8	4.2	3.5	3.8
Decatur .....	60.0	59.2	59.9	4.6	3.4	4.2	7.6	5.7	6.9
Peoria .....	175.0	177.6	175.6	7.1	6.8	8.4	4.1	3.8	4.8
Rockford .....	137.2	139.6	139.5	6.1	6.3	7.9	4.4	4.5	5.7
Springfield .....	95.2	101.4	94.3	5.2	4.6	5.6	5.5	4.5	5.9
<b>INDIANA</b> .....	2,590.3	2,620.8	2,604.0	131.9	173.1	162.6	5.1	6.6	6.2
Anderson .....	60.9	60.0	59.9	3.5	5.7	5.0	5.7	9.5	8.4
Evansville <sup>1</sup> .....	141.1	141.6	139.8	7.2	7.8	7.8	5.1	5.5	5.6
Fort Wayne .....	186.5	193.3	191.4	7.8	11.4	11.4	4.2	5.9	6.0
Gary—Hammond—East Chicago .....	291.9	290.5	292.2	17.1	19.3	20.5	5.8	6.7	7.0
Indianapolis .....	581.5	590.5	584.1	28.4	36.1	31.2	4.9	6.1	5.3
Lafayette—West Lafayette .....	63.5	59.8	64.2	2.2	2.8	2.8	3.5	4.7	4.3
Muncie .....	55.6	55.9	55.6	3.8	4.4	3.9	6.9	7.9	7.0
South Bend .....	140.8	140.5	141.1	7.0	8.7	8.0	5.0	6.2	5.7
Terre Haute .....	81.7	80.8	81.4	4.0	4.7	4.4	4.9	5.8	5.4
<b>IOWA</b> .....	1,431.0	1,425.7	1,429.3	46.0	46.7	44.9	3.2	3.3	3.1
Cedar Rapids .....	84.6	85.8	87.1	2.3	2.5	2.5	2.8	2.9	2.8
Des Moines .....	178.8	178.1	179.0	6.2	6.3	6.1	3.5	3.5	3.4
Dubuque .....	44.3	45.2	45.4	2.1	2.1	2.0	4.8	4.7	4.5
Sioux City <sup>1</sup> .....	56.5	54.6	54.8	3.2	3.3	3.0	5.6	6.0	5.6
Waterloo—Cedar Falls .....	66.3	68.2	69.7	2.7	2.7	2.6	4.1	4.0	3.7
<b>KANSAS</b> .....	1,171.1	1,191.3	1,193.2	31.0	42.5	40.0	2.6	3.6	3.3
Topeka .....	95.3	97.0	96.1	3.3	4.4	4.2	3.4	4.5	4.4
Wichita .....	216.5	229.8	227.9	6.4	8.2	7.8	3.0	3.6	3.4
<b>KENTUCKY</b> .....	1,595.4	1,585.8	1,606.6	73.2	91.0	85.3	4.6	5.7	5.3
Lexington—Fayette .....	166.4	164.7	169.1	4.5	5.7	6.0	2.7	3.5	3.5
Louisville <sup>1</sup> .....	415.5	428.2	423.3	19.3	30.3	23.0	4.6	7.1	5.4
Owensboro .....	38.4	38.6	39.2	1.8	2.1	2.1	4.8	5.5	5.3
<b>LOUISIANA</b> .....	1,650.6	1,663.1	1,674.2	112.2	109.1	110.5	6.8	6.6	6.6
Alexandria .....	68.8	67.6	70.4	5.5	5.5	5.6	7.9	8.2	7.9
Baton Rouge .....	204.0	201.8	199.7	12.6	13.3	13.0	6.2	6.6	6.5
Lafayette .....	64.3	69.6	70.4	3.2	3.2	3.5	5.0	4.6	4.9
Lake Charles .....	65.7	66.2	65.9	4.8	4.5	4.3	7.3	6.7	6.6
Monroe .....	52.8	53.1	53.3	3.9	3.8	3.7	7.3	7.1	7.0
New Orleans .....	466.7	465.2	467.3	32.1	30.0	30.4	6.9	6.4	6.5
Shreveport .....	150.6	153.5	152.9	9.8	8.9	8.9	6.5	5.8	5.8
<b>MAINE</b> .....	492.0	499.5	500.0	24.1	29.8	28.9	4.9	6.0	5.8
Lewiston—Auburn .....	36.9	36.9	38.7	1.8	2.1	2.4	4.9	5.7	6.2
Portland .....	84.3	83.7	83.4	3.5	3.9	3.9	4.1	4.7	4.7
<b>MARYLAND</b> .....	2,037.6	2,117.5	2,107.8	99.2	130.6	116.7	4.9	6.2	5.5
Baltimore .....	1,030.6	1,061.5	1,059.1	55.8	78.4	66.1	5.4	7.4	6.2
<b>MASSACHUSETTS<sup>2</sup></b> .....	2,807.3	2,936.0	2,911.6	161.7	137.6	187.0	5.8	4.7	6.4
Boston .....	1,343.0	1,392.1	1,386.5	77.1	64.5	89.6	5.7	4.6	6.5
Brockton .....	79.7	81.7	81.4	4.9	4.4	5.9	6.2	5.3	7.2
Fall River <sup>1</sup> .....	79.8	80.9	80.1	4.8	4.0	5.8	6.0	4.9	7.3
Lawrence—Haverhill <sup>1</sup> .....	137.6	141.1	140.4	8.9	7.8	10.5	6.4	5.6	7.5
Lowell .....	111.6	123.7	122.8	7.1	6.1	8.1	6.4	4.9	6.6
New Bedford .....	80.8	86.8	87.5	6.2	4.8	7.3	7.6	5.6	8.4
Springfield—Chicopee—Holyoke .....	271.2	291.4	283.3	13.3	11.7	12.7	4.9	4.0	4.5
Worcester .....	191.1	205.4	203.1	8.7	8.4	10.7	4.6	4.1	5.3
<b>MICHIGAN<sup>2</sup></b> .....	4,194.7	4,319.1	4,327.4	243.2	325.0	310.1	5.8	7.5	7.2
Ann Arbor .....	132.3	142.4	142.5	6.3	8.5	8.0	4.8	6.0	5.6

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					
	SEPT. 1978	AUG. 1979	SEPT. 1979P	Number			Percent of labor force		
				SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
<b>MICHIGAN—Continued</b>									
Battle Creek .....	82.2	83.3	82.5	4.8	4.7	5.1	5.9	5.6	6.2
Bay City .....	54.1	53.7	53.6	3.1	3.8	3.7	5.8	7.1	7.0
Detroit .....	1,992.9	2,047.2	2,064.4	109.0	160.9	155.8	5.5	7.9	7.5
Flint .....	227.2	227.3	226.3	17.5	28.4	19.1	7.7	12.5	8.5
Grand Rapids .....	288.9	301.8	301.2	12.9	13.8	15.2	4.5	4.6	5.1
Jackson .....	65.6	70.1	69.1	3.2	4.5	4.7	4.8	6.5	6.8
Kalamazoo—Portage .....	133.3	131.7	134.4	6.8	6.2	6.7	5.1	4.7	5.0
Lansing—East Lansing .....	223.0	233.3	233.2	12.3	22.3	14.7	5.5	9.6	6.3
Muskegon—Norton Shores—Muskegon Heights .....	76.9	78.7	78.0	5.4	5.4	5.7	7.1	6.9	7.3
Saginaw .....	103.7	106.1	104.2	5.0	8.5	8.9	4.8	8.0	8.5
<b>MINNESOTA</b> .....	2,028.9	2,067.2	2,040.8	59.8	69.5	68.8	2.9	3.4	3.4
Duluth—Superior <sup>1</sup> .....	119.8	118.5	117.5	4.7	6.0	5.8	4.0	5.0	4.9
Minneapolis—St. Paul .....	1,060.9	1,074.3	1,067.3	28.7	32.7	32.8	2.7	3.0	3.1
<b>MISSISSIPPI</b> .....	981.7	984.7	994.8	65.4	52.8	52.8	6.7	5.4	5.3
Jackson .....	142.5	146.7	147.4	7.3	5.1	5.8	5.1	3.4	3.9
<b>MISSOURI</b> .....	2,286.1	2,341.1	2,338.1	98.5	110.0	103.3	4.3	4.7	4.4
Kansas City <sup>1</sup> .....	692.8	700.5	693.8	26.6	31.3	29.3	3.8	4.5	4.2
St. Joseph .....	45.1	44.3	44.3	2.2	2.1	2.3	4.9	4.7	5.2
St. Louis <sup>1</sup> .....	1,092.2	1,112.1	1,097.1	53.0	64.2	63.2	4.9	5.8	5.8
Springfield .....	102.9	102.9	103.0	3.6	3.9	3.7	3.5	3.8	3.6
<b>MONTANA</b> .....	382.0	395.5	379.7	18.1	16.7	14.7	4.7	4.2	3.9
Billings .....	55.5	55.2	54.9	2.1	1.8	1.6	3.8	3.2	2.9
Great Falls .....	36.8	35.8	35.1	2.3	2.0	1.8	6.2	5.5	5.1
<b>NEBRASKA</b> .....	777.2	781.8	781.4	19.2	22.4	28.2	2.5	2.9	3.6
Lincoln .....	111.8	107.5	111.4	2.4	2.8	3.7	2.1	2.6	3.3
Omaha <sup>1</sup> .....	278.8	269.3	276.0	9.7	11.3	15.1	3.5	4.2	5.5
<b>NEVADA</b> .....	343.0	353.7	351.3	13.1	17.2	16.0	3.9	4.9	4.5
Las Vegas .....	182.2	188.1	187.8	8.3	10.6	9.9	4.6	5.6	5.3
Reno .....	101.6	104.1	103.6	2.0	3.3	3.1	2.0	3.2	3.0
<b>NEW HAMPSHIRE</b> .....	438.4	462.9	455.1	14.2	12.1	11.1	3.2	2.6	2.4
Manchester .....	81.3	84.2	84.7	3.1	2.1	2.1	3.8	2.5	2.5
Nashua .....	59.0	61.6	61.9	1.8	1.5	1.5	3.0	2.4	2.5
<b>NEW JERSEY</b> .....	3,518.9	3,595.6	3,588.9	251.2	259.0	223.6	7.1	7.2	6.2
Atlantic City .....	90.9	105.2	102.4	7.7	8.5	7.4	8.5	8.1	7.2
Jersey City .....	257.9	252.0	250.3	27.4	24.1	21.7	10.6	9.5	8.7
Long Branch—Asbury Park .....	228.0	234.3	229.3	16.6	16.6	14.9	7.3	7.1	6.5
Newark .....	979.9	974.0	975.2	68.0	70.6	61.5	6.9	7.3	6.3
New Brunswick—Perth Amboy—Sayreville .....	320.6	328.2	333.0	21.2	22.5	19.3	6.6	6.8	5.8
Paterson—Clifton—Passaic .....	218.7	220.7	218.5	18.3	21.5	18.5	8.3	9.7	8.5
Trenton .....	163.4	161.6	165.1	9.2	10.2	9.3	5.6	6.3	5.7
Vineland—Millville—Bridgeton .....	64.1	63.1	62.6	5.8	5.4	4.2	9.1	8.6	6.7
<b>NEW MEXICO</b> .....	536.6	540.4	543.8	29.0	32.7	35.4	5.4	6.1	6.5
Albuquerque .....	197.4	198.9	200.7	10.6	11.9	12.6	5.4	6.0	6.3
<b>NEW YORK</b> <sup>2</sup> .....	7,798.3	8,122.9	7,937.1	599.3	594.9	594.1	7.7	7.3	7.5
Albany—Schenectady—Troy .....	365.0	382.0	372.3	22.8	19.9	20.3	6.2	5.2	5.5
Binghamton <sup>1</sup> .....	137.0	144.5	141.8	8.7	8.2	8.1	6.3	5.7	5.7
Buffalo .....	565.5	591.6	580.5	46.8	47.7	43.8	8.3	8.1	7.5
Elmira .....	39.4	41.5	40.9	2.7	2.7	2.6	6.7	6.6	6.3
Nassau—Suffolk .....	1,239.1	1,306.8	1,278.7	90.0	81.7	82.6	7.3	6.2	6.5
New York .....	3,577.6	3,677.3	3,594.2	303.6	313.1	316.1	8.5	8.5	8.8
New York City <sup>2</sup> .....	2,999.0	3,066.0	2,998.0	267.0	282.0	285.0	8.9	9.2	9.5
Poughkeepsie .....	101.9	108.2	106.9	5.3	4.3	4.6	5.2	3.9	4.3
Rochester .....	452.9	482.9	471.8	25.4	27.4	25.9	5.6	5.7	5.5
Syracuse .....	296.2	305.8	300.8	20.4	18.2	18.3	6.9	6.0	6.1
Utica—Rome .....	135.3	142.9	138.8	9.2	8.2	8.0	6.8	5.8	5.8
<b>NORTH CAROLINA</b> .....	2,692.8	2,747.9	2,720.0	88.1	128.2	125.9	3.3	4.7	4.6
Asheville .....	79.0	84.6	82.6	2.7	3.5	3.1	3.4	4.1	3.8
Charlotte—Gastonia .....	330.1	329.3	332.8	8.5	13.3	13.0	2.6	4.1	3.9

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
<b>NORTH CAROLINA—Continued</b>									
Greensboro—Winston-Salem—High Point .....	410.4	414.3	420.2	12.0	17.6	20.4	2.9	4.3	4.8
Raleigh—Durham .....	272.2	275.3	281.3	6.7	9.3	9.7	2.5	3.4	3.4
<b>NORTH DAKOTA</b>									
Fargo—Moorehead <sup>1</sup> .....	305.2	332.0	311.3	10.9	8.3	7.6	3.6	2.5	2.4
	71.3	71.9	70.8	2.2	2.2	2.2	3.0	3.1	3.2
<b>OHIO<sup>2</sup></b>									
Akron .....	5,050.5	5,154.7	5,092.0	273.9	354.3	277.6	5.4	6.9	5.5
Canton .....	302.0	305.9	303.2	17.3	20.5	16.9	5.7	6.7	5.6
Cincinnati <sup>1</sup> .....	180.8	187.2	183.8	9.1	10.8	9.0	5.0	5.8	4.9
Cleveland .....	663.1	679.8	674.9	33.7	43.0	31.3	5.1	6.3	4.6
Columbus .....	941.4	947.8	942.6	44.9	52.6	42.5	4.8	5.5	4.5
Dayton .....	538.2	550.4	546.2	26.6	28.0	23.2	4.9	5.1	4.3
Toledo <sup>1</sup> .....	385.4	395.2	393.2	17.6	32.9	26.0	4.6	8.3	6.6
Youngstown—Warren .....	366.9	374.2	372.3	22.9	27.8	25.8	6.2	7.4	6.9
	239.6	246.9	242.8	16.0	26.3	18.1	6.7	10.6	7.5
<b>OKLAHOMA</b>									
Oklahoma City .....	1,274.3	1,289.7	1,296.3	44.4	42.6	40.8	3.5	3.3	3.1
Tulsa .....	387.8	401.8	405.2	12.7	12.2	12.4	3.3	3.0	3.1
	303.4	304.7	302.8	10.3	9.5	9.0	3.4	3.1	3.0
<b>OREGON</b>									
Eugene—Springfield .....	1,208.9	1,222.5	1,220.1	63.4	78.9	74.1	5.2	6.5	6.1
Portland <sup>1</sup> .....	124.9	125.8	126.0	8.2	10.1	9.5	6.5	8.1	7.5
Salem .....	578.0	583.8	581.5	27.5	31.4	30.5	4.8	5.4	5.3
	116.6	120.7	119.5	5.3	6.3	6.2	4.5	5.2	5.2
<b>PENNSYLVANIA<sup>2</sup></b>									
Allentown—Bethlehem—Easton <sup>1</sup> .....	5,256.9	5,349.9	5,331.2	372.2	372.8	357.2	7.1	7.0	6.7
Altoona .....	292.4	302.6	297.7	17.0	20.9	17.5	5.9	6.9	5.9
Erie .....	56.5	58.8	59.0	4.5	5.0	5.2	7.9	8.5	8.9
Harrisburg .....	123.7	127.6	126.2	8.7	8.8	8.5	7.0	6.9	6.8
Johnstown .....	214.9	220.9	217.7	10.9	11.1	10.8	5.1	5.0	5.0
Lancaster .....	106.5	111.6	108.9	9.5	10.6	9.1	8.9	9.5	8.4
Northeast Pennsylvania .....	170.3	177.9	175.8	7.7	8.3	8.4	4.5	4.6	4.8
Philadelphia <sup>1</sup> .....	276.4	285.2	279.3	22.3	25.1	23.7	8.1	8.8	8.5
Pittsburgh .....	2,086.7	2,115.9	2,111.1	169.1	155.9	147.0	8.1	7.4	7.0
Reading .....	988.9	1,017.1	1,010.3	59.2	59.9	57.6	6.0	5.9	5.7
Williamsport .....	146.8	153.1	154.0	8.3	8.4	8.2	5.6	5.5	5.3
York .....	53.2	55.7	55.6	4.0	5.5	5.2	7.5	9.8	9.3
	166.1	170.4	170.1	8.2	8.8	8.0	4.9	5.1	4.7
<b>RHODE ISLAND</b>									
Providence—Warwick—Pawtucket <sup>1</sup> .....	438.6	460.5	456.7	25.6	27.1	23.0	5.8	5.9	5.0
	441.7	458.9	455.7	26.1	27.4	24.2	5.9	6.0	5.3
<b>SOUTH CAROLINA</b>									
Charleston—North Charleston .....	1,309.4	1,339.6	1,335.4	68.9	63.7	62.6	5.3	4.8	4.7
Columbia .....	151.2	157.5	156.0	9.2	8.2	8.0	6.1	5.2	5.1
Greenville—Spartanburg .....	170.9	174.0	176.4	6.9	6.5	6.4	4.0	3.8	3.7
	258.5	262.1	264.6	10.8	9.6	9.6	4.2	3.7	3.6
<b>SOUTH DAKOTA</b>									
Sioux Falls .....	337.3	347.8	336.9	7.4	9.1	8.3	2.2	2.6	2.5
	59.7	60.3	58.3	1.0	1.2	1.2	1.7	2.0	2.1
<b>TENNESSEE</b>									
Chattanooga <sup>1</sup> .....	1,947.3	2,006.2	2,021.9	99.9	116.0	119.8	5.1	5.8	5.9
Knoxville .....	185.9	190.8	190.1	10.0	12.0	11.7	5.4	6.3	6.1
Memphis <sup>1</sup> .....	202.0	208.6	214.0	8.3	8.6	9.1	4.1	4.1	4.3
Nashville—Davidson .....	375.3	386.6	393.4	21.0	20.5	25.4	5.6	5.3	6.4
	397.9	407.5	408.1	14.9	20.2	19.1	3.7	5.0	4.7
<b>TEXAS<sup>2</sup></b>									
Amarillo .....	5,925.1	6,180.5	6,230.6	284.2	285.2	247.0	4.8	4.6	4.0
Austin .....	84.0	87.4	88.4	3.1	3.3	2.7	3.7	3.7	3.0
Beaumont—Port Arthur—Orange .....	231.4	245.2	247.8	8.0	8.1	7.0	3.5	3.3	2.8
Corpus Christi .....	162.4	162.5	165.0	10.6	10.2	8.4	6.5	6.3	5.1
Dallas—Fort Worth .....	129.1	133.1	131.2	7.5	7.5	6.5	5.8	5.7	5.0
El Paso .....	1,382.1	1,477.0	1,498.3	55.7	59.4	50.3	4.0	4.0	3.4
Galveston—Texas City .....	165.9	171.6	170.7	15.7	14.4	12.6	9.5	8.4	7.4
Houston .....	81.7	82.4	82.6	4.9	4.5	4.0	5.9	5.4	4.8
Lubbock .....	1,330.9	1,396.3	1,406.0	53.4	49.3	43.9	4.0	3.5	3.1
San Antonio .....	100.5	102.0	104.5	3.5	3.8	3.4	3.5	3.7	3.2
Waco .....	399.9	409.8	411.0	26.2	26.4	22.7	6.5	6.4	5.5
Wichita Falls .....	74.8	77.9	79.2	3.4	3.7	2.9	4.5	4.7	3.7
	58.2	59.4	60.4	2.3	1.9	1.8	3.9	3.2	3.0

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P	SEPT. 1978	AUG. 1979	SEPT. 1979P
<b>UTAH</b> .....	554.4	586.6	592.9	18.6	22.3	24.2	3.4	3.8	4.1
Salt Lake City—Ogden .....	363.9	388.2	388.3	12.7	15.0	16.2	3.5	3.9	4.2
<b>VERMONT</b> .....	239.1	244.8	243.9	10.7	10.3	10.1	4.5	4.2	4.1
<b>VIRGINIA</b> .....	2,457.1	2,499.5	2,480.3	124.2	113.5	110.7	5.1	4.5	4.5
Lynchburg .....	73.2	76.3	75.7	3.2	3.0	2.9	4.3	3.9	3.8
Newport News—Hampton .....	154.1	163.9	161.4	8.9	8.4	8.5	5.7	5.1	5.3
Norfolk—Virginia Beach—Portsmouth <sup>1</sup> .....	321.0	323.7	322.1	18.4	17.9	18.2	5.7	5.5	5.6
Petersburg—Colonial Heights—Hopewell .....	59.6	60.3	58.9	3.2	3.3	3.2	5.3	5.6	5.5
Richmond .....	318.5	324.2	322.5	10.7	11.1	10.2	3.4	3.4	3.2
Roanoke .....	106.9	110.6	109.0	4.5	4.6	4.4	4.2	4.1	4.0
<b>WASHINGTON</b> .....	1,798.3	1,893.4	1,905.8	106.7	109.1	108.1	5.9	5.8	5.7
Seattle—Everett .....	774.0	835.4	836.9	42.3	39.4	40.7	5.5	4.7	4.9
Spokane .....	143.7	148.0	149.1	8.0	7.8	9.0	5.6	5.3	6.1
Tacoma .....	168.8	175.5	175.2	12.1	11.3	11.3	7.2	6.4	6.4
<b>WEST VIRGINIA</b> .....	720.4	741.5	755.6	43.3	40.5	43.7	6.0	5.5	5.8
Charleston .....	116.4	122.2	124.9	3.4	4.3	4.8	2.9	3.5	3.9
Huntington—Ashland <sup>1</sup> .....	116.6	120.5	119.3	5.9	7.0	6.2	5.0	5.8	5.2
Parkersburg—Marietta <sup>1</sup> .....	66.3	70.0	70.5	2.8	3.7	3.5	4.2	5.2	5.0
Wheeling <sup>1</sup> .....	80.1	78.9	78.5	5.3	3.8	4.2	6.6	4.9	5.3
<b>WISCONSIN</b> .....	2,341.3	2,405.2	2,410.5	99.6	100.2	92.8	4.3	4.2	3.8
Appleton—Oshkosh .....	148.2	152.2	151.5	5.9	6.0	5.2	4.0	3.9	3.4
Eau Claire .....	51.5	54.4	55.6	3.0	2.8	3.3	5.8	5.1	5.9
Green Bay .....	89.0	90.1	89.1	4.5	4.0	3.8	5.1	4.5	4.2
Kenosha .....	60.6	62.7	63.0	3.1	3.1	2.8	5.1	4.9	4.5
La Crosse .....	45.5	45.2	45.4	2.0	1.9	1.6	4.4	4.2	3.6
Madison .....	178.7	180.0	182.3	6.7	6.0	5.7	3.7	3.3	3.1
Milwaukee .....	716.3	735.3	740.6	27.3	26.3	26.0	3.8	3.6	3.5
Racine .....	89.0	91.2	90.4	3.8	4.4	3.9	4.3	4.8	4.4
<b>WYOMING</b> .....	226.0	237.2	237.8	7.0	5.7	5.5	3.1	2.4	2.3

<sup>1</sup> Includes interstate portion of area located in adjacent State.

<sup>2</sup> 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 <sup>1</sup>	Households eligible		Households visited not eligible <sup>2</sup>
		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 <sup>3</sup>	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

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

<sup>2</sup> These are households which were visited, but were found to

be vacant or otherwise not eligible for interview.

<sup>3</sup> 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. The post-censal population estimates are then "deflated" to census 1970 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)
<b>(In thousands)</b>		
Total, 16 years and over:		
Civilian labor force . . . . .	223	171
Employed . . . . .	236	180
Unemployed . . . . .	107	111
Males, 20 years and over:		
Civilian labor force . . . . .	124	107
Employed . . . . .	135	118
Unemployed . . . . .	68	71
Females, 20 years and over:		
Civilian labor force . . . . .	168	129
Employed . . . . .	167	131
Unemployed . . . . .	64	67
Both sexes, 16-19 years:		
Civilian labor force . . . . .	80	85
Employed . . . . .	84	94
Unemployed . . . . .	56	69
Black and other, 16 years and over:		
Civilian labor force . . . . .	78	60
Employed . . . . .	85	65
Unemployed . . . . .	54	57
Males, 20 years and over:		
Civilian labor force . . . . .	44	38
Employed . . . . .	49	43
Unemployed . . . . .	33	35
Females, 20 years and over:		
Civilian labor force . . . . .	62	48
Employed . . . . .	62	49
Unemployed . . . . .	34	36
Both sexes, 16-19 years:		
Civilian labor force . . . . .	33	37
Employed . . . . .	30	35
Unemployed . . . . .	29	32

*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	<b>OCCUPATION—Continued</b>		
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	<b>INDUSTRY</b>		
Part-time workers . . . . .	.32	.40	Nonagricultural private wage and		
Unemployed 15 weeks and over . . . . .	.06	.07	salary workers . . . . .	.12	.13
<b>OCCUPATION</b>			Construction . . . . .	.58	.66
White-collar workers . . . . .	.12	.13	Manufacturing . . . . .	.22	.24
Professional and technical . . . . .	.18	.20	Durable goods . . . . .	.27	.30
Managers and administrators,			Nonurable goods . . . . .	.36	.40
except farm . . . . .	.19	.21	Transportation and public utilities . . . . .	.31	.35
Sales workers . . . . .	.37	.41	Wholesale and retail trade . . . . .	.25	.28
Clerical workers . . . . .	.23	.26	Finance and service industries . . . . .	.17	.19
Blue-collar workers . . . . .	.20	.22	Government workers . . . . .	.21	.23
Craft and kindred workers . . . . .	.27	.30	Agricultural wage and salary workers . . . . .	1.09	1.24

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

Estimated monthly level	Characteristics <sup>1</sup>								
	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	—	—	—	—	—	—	—

<sup>1</sup> 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 <sup>1</sup>							
	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 <sup>2</sup>	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	—	—	—	—	—	—	—

<sup>1</sup> See footnote 1, table C.

<sup>2</sup> 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
<b>Agricultural employment:</b>					
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
<b>Labor force data other than agricultural employment data and unemployment data:</b>					
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
<b>Unemployment:</b>					
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 1 railroads (excluding switching and terminal companies) are based on monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group 1) who received pay during the month. Gross average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by the number of employees, as defined above. Gross average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

**Spendable average weekly earnings.** Spendable average weekly earnings in current dollars are obtained by deducting estimated Federal social security and income taxes from average weekly earnings. The amount of income tax liability depends on the number of dependents supported by the worker, the worker's marital status, and level of gross income. To reflect these variables, the Bureau calculates two sets of spendable earnings series based on the assumptions that the worker earned the gross average weekly earnings and was taxed at the rates applicable to either (1) a worker with no dependents, or (2) a married worker with three dependents who files a joint return. The computations are based on gross average weekly earnings for all production or nonsupervisory workers in the industry division excluding other income and income earned by other family members.

The series reflects the spendable earnings of only those workers, with no dependents or three dependents, whose gross weekly pay approximates the average earnings indicated for all production and nonsupervisory workers. It does not reflect, for example, the average earnings of all married workers with three dependents; such workers, in fact have higher gross average earnings than workers with no dependents.

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

"Real" earnings or earnings in constant dollars, are computed by dividing the earnings averages for the current month by the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and then multiplying by 100. "Real" earnings for months prior to January 1978 are deflated by the unrevised CPI-W, whereas those for January 1978 forward are deflated by the revised CPI-W. This is done for gross average weekly earnings and for spendable average weekly earnings. The level of earnings is thus adjusted for changes in the purchasing power of the dollar since the base period (1967).

**Average hourly earnings excluding overtime.** Average hourly earnings excluding overtime premium pay are computed by dividing the total production-worker payroll for the industry group by the sum of total production-worker hours and one-half of total overtime hours. Prior to January 1956, these data were based on the application of adjustment factors to gross average hourly earnings (as described in the *Monthly Labor Review*, May 1950, pp. 537-540). Both methods eliminate only the earnings due to overtime paid for

at 1½ times the straight-time rates. No adjustment is made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

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

**Indexes of diffusion of changes in number of employees on non-agricultural payrolls.** These indexes measure the percent of industries which posted increases in employment over the specified time span. The indexes are calculated from 172 unpublished seasonally adjusted employment series (two-digit nonmanufacturing industries and three-digit manufacturing industries) covering all nonagricultural payroll employment in the private sector. A more detailed discussion of these indexes appears in "Introduction of Diffusion Indexes," in the December 1974 issue of *Employment and Earnings*.

#### **Labor turnover**

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

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

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

*Recalls* are permanent or temporary additions to the employment roll of persons specifically recalled to a job in the same establishment of the company following a period of layoff lasting more than 7 consecutive days. (The collection of recalls, as a separate item, began January 1976.)

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

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

*Quits* are terminations of employment initiated by employees, failure to report after being hired (if counted as new hires previously), and unauthorized absences, if on the last day of the month

the person has been absent more than 7 consecutive calendar days.

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

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

#### **Relationship of labor turnover to employment series**

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

#### **ESTIMATING METHODS**

The principal features of the procedure used to estimate employment for the industry statistics are (1) the use of the "link relative" technique, which is a form of ratio estimation, (2) periodic adjustment of employment levels to new benchmarks, and (3) the use of size and regional stratification.

#### **The "link relative" technique**

From a sample composed of establishments reporting for both the previous and current months, the ratio of current month employment to that of the previous month is computed. This is called a "link relative." The estimates of employment (all employees, including production and nonproduction workers together) for the current month are obtained by multiplying the estimates for the previous month by these "link relatives." In addition, small bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past experience. Other features of the general procedures are described in table 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)
<b>Monthly data</b>		
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. <sup>1</sup>	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. <sup>2</sup>	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. <sup>2</sup>	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. <sup>2</sup>	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. <sup>2</sup>	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.
<b>Annual average data</b>		
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.

<sup>1</sup> 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.

<sup>2</sup> 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 1978<sup>1</sup>**

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) <sup>2</sup> .....	4,600	2,725,000	100
State and local .....	12,300	7,955,000	61

<sup>1</sup> 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.

<sup>2</sup> 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 <sup>1</sup> .....	186,560	21
Telephone communication....	698,980	72

<sup>1</sup> 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 <sup>1</sup>	Relative errors <sup>2</sup> (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 <sup>3</sup>	.1	—	—

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

<sup>2</sup> Relative errors relate to March 1971 data.

<sup>3</sup> 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 <sup>1</sup>	Relative errors <sup>2</sup> (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

<sup>1</sup> Assuming 12-month intervals between benchmark revisions.

<sup>2</sup> 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
<b>INDUSTRY DIVISION</b>		
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
<b>DETAILED INDUSTRIES: SIZE OF EMPLOYMENT ESTIMATES</b>		
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 non-financial corporations, in which there are no self-employed.

*Real compensation per hour* is compensation per hour adjusted to eliminate the effect of changes in the Consumer Price Index for All Urban Consumers (CPI-U).

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

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

### Notes on the data

For the private business sector and the nonfarm business sector, these indexes relate to the Gross Domestic Product less households and institutions, owner-occupied housing, and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the Gross Domestic Product of nonfinancial corporate business.

Manufacturing data have been revised to reflect revisions in the Federal Reserve Board Index of Industrial Production. Output data are supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis. Compensation and hour data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics.

## State and area unemployment data

(E table)

### FEDERAL-STATE COOPERATIVE PROGRAM

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

### ESTIMATING METHODS

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

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

Monthly employment and unemployment estimates in the remaining 40 States and 205 labor market areas are prepared in several stages.

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

**2. Preliminary estimate-Unemployment:** In the current month, the estimate of unemployment is an aggregate of the estimates for each of three building block categories: (1) Persons who were previously employed in industries covered by State UI laws; (2) those previously employed in industries not covered by these laws; and (3) those who were either entering the labor force of the first time or reentering after a period of separation. This is referred to below, as the UI-based estimate.

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

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

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

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

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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