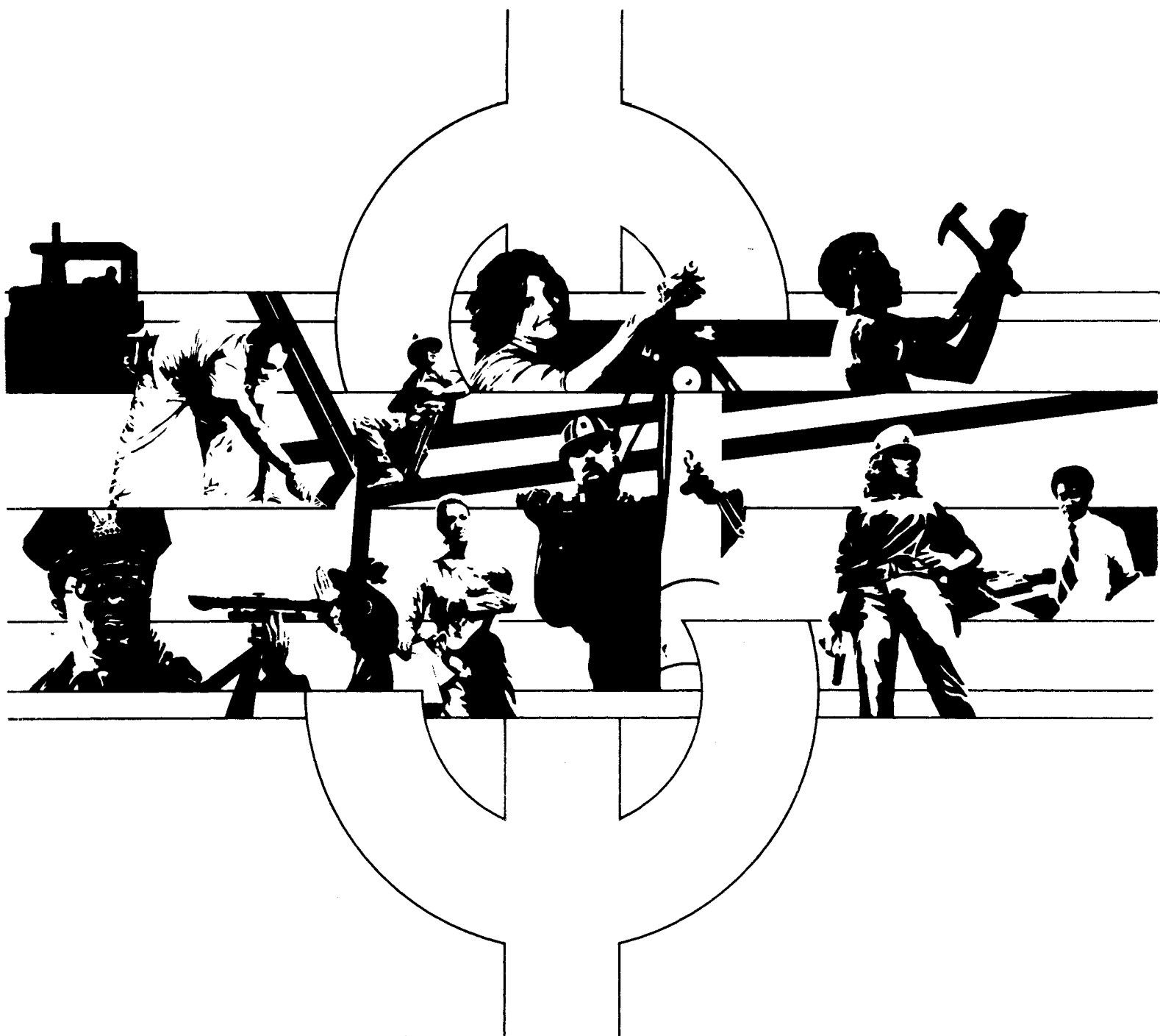


# Employment and Earnings

## December 1982



U.S. Department of Labor  
Bureau of Labor Statistics





**U.S. DEPARTMENT OF LABOR**  
Raymond J. Donovan, Secretary

BUREAU OF LABOR STATISTICS  
Janet L. Norwood, Commissioner

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Communications on editorial matters should be addressed to: Editors, Employment and Earnings, Bureau of Labor Statistics, Washington, D.C. 20212. Inquiries regarding the text and *Household Data* should be addressed to: Attention of Gloria P. Green, or phone: (202) 523-1944. Inquiries relating to *Establishment Data* and all other tables should be addressed to: Attention of Gloria P. Goings, or phone: (202) 523-1487. Send correspondence on circulation and subscription matters (including address changes) to the Superintendent of Documents.

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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, weekly earnings 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	June <sup>1</sup>
Revised historical national data adjusted to new benchmarks	Supplement <sup>2</sup>
Revised seasonally adjusted series	June <sup>3</sup>
State and area annual averages	May
Area definitions	May

### State and area unemployment data

Annual averages	June
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<sup>1</sup> The issue that introduces new benchmark varies. The June 1982 issue introduced March 1981 benchmarks.

<sup>2</sup> Month of publication of annual supplement varies. The latest supplement was published in June 1982.

<sup>3</sup> Issue varies. Latest revised data introduced June 1982.

# Employment and Earnings

Vol. 29 No. 12 December 1982

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

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# Employment and Unemployment Developments, November 1982

Unemployment increased further in November and the number of nonagricultural payroll jobs declined. The Nation's jobless rate rose to 10.8 percent from 10.4 percent in October.

Total employment—as measured by the monthly survey of households—was about unchanged in November at 99.0 million, following a large drop in the prior month. Nonfarm payroll employment—as measured by the monthly survey of establishments—fell by 165,000, with continued reductions in many of the manufacturing industries. Factory jobs have declined by 2.2 million since the onset of the recession.

## Unemployment

The number of unemployed persons reached 12.0 million in November, seasonally adjusted, up 440,000 from October, and the Nation's unemployment rate rose four-tenths of a percentage point to 10.8 percent. Virtually all of the over-the-month rise occurred among adult men and women. Since its pre-recession low of 7.2 percent in July 1981, the jobless rate has risen by more than 3½ percentage points, with each of the three major age-sex groups being substantially affected. Over this period, the jobless rate for adult men rose from 5.8 to 10.1 percent, that for adult women increased from 6.7 to 9.1 percent, while the teenage rate moved from 18.7 to 24.2 percent. All were at record high levels in November. (See table A-33.)

Among other major labor force groups, the jobless rate for white workers rose to a new high of 9.7 percent. The rates for blacks (20.2 percent) and Hispanics (15.7 percent) were about unchanged over the month. Among the major occupational groups, the jobless rate for blue-collar workers rose from 15.9 to 16.5 percent. The rate for white-collar workers, who have not been affected by the recession as much as blue-collar workers, increased from 5.1 to 5.6 percent. Sizeable increases were also noted in several industry groups. In particular, the jobless rate for workers in durable goods manufacturing rose sharply over the month to 17.1 percent; this compares with a July 1981 figure of 7.1 percent. (See tables A-35 and A-36.)

Well over half of the over-the-month increase in unemployment stemmed from persons reentering the labor force. However, persons who had lost their jobs

continued to account for the largest share of total unemployment—62 percent—up from about 50 percent in July 1981. (See table A-39.)

The number of long-term unemployed (those jobless for 15 weeks or longer) rose by nearly 400,000 to a level of 4.5 million in November. The average (mean) duration, at 17.2 weeks, was unchanged over the month, while the median duration of unemployment increased from 9.6 to 10.1 weeks. (See table A-37.)

## Total employment and the labor force

Total employment was about unchanged in November at 99.0 million, seasonally adjusted, following a decrease of 630,000 in the prior month. Since the onset of the recession, total employment has dropped by 1.8 million, with adult men accounting for the bulk of this decline. Employment of adult women has actually shown a small numerical increase over this same period, although not enough to keep pace with their population growth. The overall employment-population ratio edged down slightly over the month to 56.5 percent, 2 percentage points below the July 1981 figure.

The civilian labor force totaled 111.0 million in November, seasonally adjusted. Since November 1981, the labor force has risen by 1.7 million. Adult women and men increased by 1.1 million and 950,000, respectively. The number of teenage workers dropped over the year, primarily due to a declining population. The November labor force developments brought the overall labor force participation rate up 0.2 percentage point to 64.2 percent. (See table A-33.)

## Industry payroll employment

Nonagricultural payroll employment fell by 165,000 in November to 88.7 million, after seasonal adjustment. The number of nonfarm jobs has declined by 2.7 million since July 1981. As has been the case throughout the current recession, much of the over-the-month job loss occurred in the manufacturing industries, where employment dropped by 140,000. (See table B-4.)

Manufacturing job cutbacks were concentrated in durable goods, particularly in machinery, transportation equipment, primary metals, and fabricated metals.

Since July 1981, the number of jobs in these four industries has declined by 1.3 million. Within nondurable goods, several industries— including textile mill products, apparel, and rubber and plastics—registered over-the-month declines. The number of jobs in mining was also down from October. Construction employment was about unchanged, after declining almost continuously since January 1981.

In the service-producing sector, employment was little different from October, as a decline in trade was about offset by an increase in the services industry. Over the past 4 months, employment in trade has declined by 230,000.

#### Hours of work

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls, at 34.6 hours in November, seasonally adjusted, was down 0.1 hour over the month. The factory workweek edged up 0.1 hour to 38.9 hours, while factory overtime, at 2.3 hours, was unchanged from October. (See table C-6.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls declined 0.4 percent in November to 102.5 (1977 = 100). The manufacturing index, at 83.3 in November, fell 0.7

percent over the month and 16.4 percent from July 1981. (See table C-7.)

#### Hourly and weekly earnings

Average hourly earnings increased 0.3 percent in November, while average weekly earnings were about unchanged, seasonally adjusted. Before adjustment for seasonality, average hourly earnings edged up 1 cent to \$7.80, 33 cents above the year-earlier level. Average weekly earnings, at \$269.88, were down 43 cents over the month but were up \$7.68 over the year. (See tables C-1 and C-8.)

#### The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 151.1 (1977 = 100) in November, seasonally adjusted, 0.1 percent higher than in October. For the 12 months ended in November, the increase (before seasonal adjustment) was 5.5 percent. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements—fluctuations in overtime in manufacturing and interindustry employment shifts. In dollars of constant purchasing power, the HEI increased 1.1 percent during the 12-month period ended in October. (See table C-8.)

#### Changes in household data series

Next month, with the issuance of data for December, this publication will incorporate annual revisions in seasonally adjusted unemployment and other labor force series. With the release of data for January 1983 in February, the Bureau will publish, in addition to the traditional *civilian* series, new labor force series that include persons in the Armed Forces stationed in the United States. In addition, all occupational data will be coded according to the classification system developed for the 1980 census, which evolved from the 1980 Standard Occupational Classification system. This means that comparisons with previously published occupational data will be severely limited. Moreover, seasonal adjustment of occupational data will not be possible until several years of data become available. All data now presented for "black and other" will be converted to "black" only. Improvements will also be made in the estimation procedures, using newly available data from the 1980 census.

# HOUSEHOLD DATA HISTORICAL

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

(Numbers in thousands)

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agri-culture	Nonagri-cultural Industries	Number	Percent of labor force	
Annual averages										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953 <sup>1</sup> .....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960 <sup>1</sup> .....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962.....	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,272	85,959	61.3	82,771	78,678	3,463	75,215	4,093	4.9	54,315
1971.....	143,033	87,198	61.0	84,382	79,367	3,394	75,972	5,016	5.9	55,834
1972 <sup>1</sup> .....	146,574	89,484	61.1	87,034	82,153	3,484	78,669	4,882	5.6	57,091
1973 <sup>1</sup> .....	149,423	91,756	61.4	89,429	85,064	3,470	81,594	4,365	4.9	57,667
1974.....	152,349	94,179	61.8	91,989	86,794	3,515	83,279	5,156	5.6	58,171
1975.....	155,333	95,955	61.8	93,775	85,846	3,408	82,438	7,929	8.5	59,377
1976.....	158,294	98,302	62.1	96,158	88,752	3,331	85,421	7,406	7.7	59,991
1977.....	161,166	101,142	62.8	99,009	92,017	3,283	88,734	6,991	7.1	60,025
1978 <sup>1</sup> .....	164,027	104,368	63.6	102,251	96,048	3,387	92,661	6,202	6.1	59,659
1979.....	166,951	107,050	64.1	104,962	98,824	3,347	95,477	6,137	5.8	59,900
1980.....	169,848	109,042	64.2	106,940	99,303	3,364	95,938	7,637	7.1	60,806
1981.....	172,272	110,812	64.3	108,670	100,397	3,368	97,030	8,273	7.6	61,460
Monthly data, seasonally adjusted <sup>2</sup>										
<b>1981:</b>										
November.....	173,155	111,430	64.4	109,272	100,172	3,372	96,800	9,100	8.3	61,724
December.....	173,330	111,348	64.2	109,184	99,613	3,209	96,404	9,571	8.8	61,982
<b>1982:</b>										
January.....	173,495	111,038	64.0	108,879	99,581	3,411	96,170	9,298	8.5	62,456
February.....	173,657	111,333	64.1	109,165	99,590	3,373	96,217	9,575	8.8	62,324
March.....	173,843	111,521	64.2	109,346	99,492	3,349	96,144	9,854	9.0	62,321
April.....	174,020	111,824	64.3	109,648	99,340	3,309	96,032	10,307	9.4	62,197
May.....	174,201	112,841	64.8	110,666	100,117	3,488	96,629	10,549	9.5	61,360
June.....	174,364	112,364	64.4	110,191	99,764	3,357	96,406	10,427	9.5	61,999
July.....	174,544	112,702	64.6	110,522	99,732	3,460	96,272	10,790	9.8	61,882
August.....	174,707	112,840	64.6	110,644	99,839	3,435	96,404	10,805	9.8	61,867
September.....	174,889	113,178	64.7	110,980	99,720	3,368	96,352	11,260	10.1	61,710
October.....	175,069	112,832	64.5	110,644	99,093	3,426	95,667	11,551	10.4	62,237
November.....	175,238	113,199	64.6	111,019	99,032	3,470	95,563	11,987	10.8	62,039

<sup>1</sup> Not strictly comparable with prior years. For an explanation, see "Historic Comparability" under Household Data section of 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, 1972 to date

(Numbers in thousands)

Sex, year, and month	Total noninsti- tutional popula- tion	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of popula- tion	Total	Employed			Unemployed		
					Total	Agri- culture	Nonegr- cultural indus- tries	Number	Percent of labor force	
<b>MALES</b>										
Annual averages										
1972 <sup>1</sup> .....	70,241	55,961	79.7	53,555	50,896	2,849	48,047	2,659	5.0	14,280
1973 <sup>1</sup> .....	71,567	56,900	79.5	54,624	52,349	2,847	49,502	2,275	4.2	14,667
1974 .....	72,971	57,902	79.3	55,739	53,024	2,919	50,105	2,714	4.9	15,069
1975 .....	74,383	58,390	78.5	56,299	51,857	2,824	49,032	4,442	7.9	15,993
1976 .....	75,798	59,212	78.1	57,174	53,138	2,744	50,394	4,036	7.1	16,595
1977 .....	77,211	60,414	78.2	58,396	54,728	2,671	52,057	3,667	6.3	16,797
1978 <sup>1</sup> .....	78,569	61,613	78.4	59,620	56,479	2,718	53,761	3,142	5.3	16,956
1979 .....	79,968	62,676	78.4	60,726	57,607	2,686	54,921	3,120	5.1	17,293
1980 .....	81,341	63,396	77.9	61,453	57,186	2,709	54,477	4,267	6.9	17,945
1981 .....	82,476	63,939	77.5	61,974	57,397	2,700	54,697	4,577	7.4	18,537
Monthly data, seasonally adjusted <sup>2</sup>										
<b>1981:</b>										
November .....	82,895	64,158	77.4	62,184	57,051	2,668	54,383	5,133	8.3	18,737
December .....	82,978	64,283	77.5	62,303	56,725	2,590	54,135	5,578	9.0	18,696
<b>1982:</b>										
January .....	83,054	63,941	77.0	61,966	56,629	2,698	53,931	5,338	8.6	19,113
February .....	83,129	64,025	77.0	62,042	56,656	2,693	53,965	5,384	8.7	19,104
March .....	83,218	64,069	77.0	62,082	56,472	2,667	53,805	5,610	9.0	19,149
April .....	83,303	64,234	77.1	62,247	56,401	2,661	53,739	5,846	9.4	19,068
May .....	83,389	64,835	77.8	62,849	56,820	2,797	54,023	6,029	9.6	18,553
June .....	83,464	64,270	77.0	62,287	56,223	2,724	53,498	6,065	9.7	19,193
July .....	83,550	64,343	77.0	62,353	56,192	2,796	53,396	6,161	9.9	19,207
August .....	83,627	64,464	77.1	62,460	56,210	2,781	53,429	6,250	10.0	19,162
September .....	83,712	64,860	77.5	62,852	56,148	2,715	53,433	6,704	10.7	18,853
October .....	83,798	64,777	77.3	62,779	55,915	2,781	53,134	6,864	10.9	19,020
November .....	83,877	64,922	77.4	62,931	55,863	2,807	53,057	7,068	11.2	18,955
<b>FEMALES</b>										
Annual averages										
1972 <sup>1</sup> .....	76,333	33,522	43.9	33,479	31,257	635	30,622	2,222	6.6	42,811
1973 <sup>1</sup> .....	77,855	34,855	44.8	34,804	32,715	622	32,093	2,089	6.0	43,000
1974 .....	79,379	36,278	45.7	36,211	33,769	596	33,173	2,441	6.7	43,101
1975 .....	80,949	37,565	46.4	37,475	33,989	584	33,404	3,486	9.3	43,386
1976 .....	82,496	39,089	47.4	38,983	35,615	588	35,027	3,369	8.6	43,406
1977 .....	83,955	40,728	48.5	40,613	37,289	612	36,677	3,324	8.2	43,227
1978 <sup>1</sup> .....	85,459	42,755	50.0	42,631	39,569	665	38,900	3,061	7.2	42,703
1979 .....	86,983	44,375	51.0	44,235	41,217	661	40,556	3,018	6.8	42,608
1980 .....	88,507	45,646	51.6	45,487	42,117	656	41,461	3,370	7.4	42,861
1981 .....	89,796	46,873	52.2	46,696	43,000	667	42,333	3,696	7.9	42,922
Monthly data, seasonally adjusted <sup>2</sup>										
<b>1981:</b>										
November .....	90,259	47,272	52.4	47,088	43,121	704	42,417	3,967	8.4	42,987
December .....	90,352	47,066	52.1	46,881	42,888	619	42,269	3,993	8.5	43,286
<b>1982:</b>										
January .....	90,441	47,097	52.1	46,913	42,952	713	42,239	3,960	8.4	43,343
February .....	90,528	47,308	52.3	47,123	42,932	680	42,251	4,191	8.9	43,220
March .....	90,625	47,452	52.4	47,264	43,020	682	42,339	4,243	9.0	43,173
April .....	90,718	47,589	52.5	47,401	42,940	647	42,292	4,461	9.4	43,128
May .....	90,813	48,005	52.9	47,817	43,297	691	42,606	4,520	9.5	42,807
June .....	90,900	48,094	52.9	47,904	43,541	633	42,908	4,362	9.1	42,806
July .....	90,995	48,360	53.1	48,169	43,540	664	42,875	4,629	9.6	42,635
August .....	91,081	48,377	53.1	48,185	43,630	655	42,975	4,555	9.5	42,704
September .....	91,176	48,320	53.0	48,129	43,572	653	42,919	4,556	9.5	42,856
October .....	91,272	48,055	52.7	47,865	43,179	645	42,533	4,686	9.8	43,217
November .....	91,361	48,277	52.8	48,088	43,169	663	42,506	4,919	10.2	43,084

<sup>1</sup> Not strictly comparable with prior years. For an explanation, see "Historic Comparability" under Household Data section of 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

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

(Numbers in thousands)

Sex, age, and race	November 1982										
	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	64,358	76.7	62,367	55,707	6,660	10.7	19,519	367	5,027	1,494	12,631
16 to 21 years	7,851	63.6	7,244	5,505	1,739	24.0	4,497	11	4,038	23	425
16 to 19 years	4,406	54.9	4,173	3,037	1,136	27.2	3,619	4	3,317	10	288
16 to 17 years	1,624	42.2	1,613	1,122	490	30.4	2,227	3	2,129	2	92
18 to 19 years	2,782	66.7	2,561	1,915	646	25.2	1,392	1	1,187	8	195
20 to 64 years	58,098	88.8	56,339	50,903	5,436	9.6	7,305	167	1,707	1,082	4,349
20 to 24 years	9,263	85.0	8,486	7,015	1,471	17.3	1,637	19	1,217	43	357
25 to 54 years	41,659	94.1	40,679	37,111	3,569	8.8	2,611	98	476	598	1,439
25 to 29 years	9,696	94.2	9,302	8,150	1,152	12.4	600	14	265	57	263
30 to 34 years	8,817	95.0	8,553	7,815	739	8.6	462	13	125	83	241
35 to 39 years	7,470	96.3	7,274	6,640	633	8.7	290	13	43	82	152
40 to 44 years	5,856	94.6	5,768	5,340	428	7.4	334	19	25	111	179
45 to 49 years	4,974	92.6	4,945	4,618	326	6.6	399	21	13	119	246
50 to 54 years	4,846	90.2	4,838	4,547	291	6.0	526	17	4	146	358
55 to 64 years	7,175	70.1	7,174	6,777	397	5.5	3,058	50	14	440	2,553
55 to 59 years	4,365	81.1	4,364	4,084	279	6.4	1,016	22	10	224	750
60 to 64 years	2,810	57.9	2,810	2,693	118	4.2	2,042	28	5	216	1,793
65 years and over	1,854	17.7	1,854	1,767	87	4.7	8,595	196	3	402	7,994
65 to 69 years	1,062	27.0	1,062	1,014	48	4.5	2,867	70	2	106	2,689
70 years and over	793	12.2	793	753	39	4.9	5,727	126	1	296	5,305
<b>White</b>											
16 years and over	56,445	77.4	54,915	49,684	5,231	9.5	16,459	301	3,897	1,186	11,075
16 to 21 years	6,753	66.0	6,285	4,558	1,727	21.1	3,483	8	3,157	16	302
16 to 19 years	3,853	58.0	3,668	2,785	883	24.1	2,787	1	2,567	6	214
16 to 17 years	1,460	45.9	1,450	1,048	402	27.7	1,721	1	1,645	1	74
18 to 19 years	2,393	69.2	2,218	1,737	480	21.7	1,066	--	922	5	140
20 to 64 years	50,932	89.6	49,587	45,310	4,278	8.6	5,882	131	1,327	641	3,582
20 to 24 years	7,883	86.2	7,305	6,186	1,119	15.3	1,259	19	979	31	230
25 to 54 years	36,533	94.9	35,767	32,932	2,835	7.9	1,949	71	337	463	1,079
25 to 34 years	16,050	95.5	15,552	14,073	1,479	9.5	761	20	290	105	346
35 to 44 years	11,750	96.3	11,513	10,670	843	7.3	457	21	41	151	244
45 to 54 years	8,734	92.3	8,702	8,189	513	5.9	732	29	7	207	488
55 to 64 years	6,517	70.9	6,515	6,192	323	5.0	2,673	42	10	348	2,273
55 to 59 years	3,955	82.1	3,954	3,727	227	5.7	862	16	8	179	659
60 to 64 years	2,562	58.6	2,561	2,465	97	3.8	1,811	26	3	169	1,614
65 years and over	1,660	17.6	1,660	1,589	71	4.3	7,790	169	3	339	7,279
<b>Black and other</b>											
18 years and over	7,913	72.1	7,452	6,024	1,428	19.2	3,060	66	1,130	308	1,556
16 to 21 years	1,098	52.0	959	547	412	43.0	1,014	3	881	7	123
16 to 19 years	553	40.0	506	252	254	50.2	832	3	750	4	74
16 to 17 years	164	24.5	163	75	88	54.1	506	2	484	2	18
18 to 19 years	389	54.5	343	178	166	48.3	325	1	266	3	55
20 to 64 years	7,164	83.4	6,751	5,592	1,159	17.2	1,425	36	380	240	767
20 to 24 years	1,380	78.5	1,181	829	352	29.8	378	--	238	13	127
25 to 54 years	5,126	88.6	4,912	4,179	733	14.9	662	27	139	135	361
25 to 34 years	2,463	89.1	2,303	1,892	411	17.9	301	7	100	35	158
35 to 44 years	1,576	90.4	1,529	1,310	218	14.3	167	11	28	42	86
45 to 54 years	1,086	84.9	1,081	577	104	9.6	194	9	11	58	116
55 to 64 years	659	63.1	659	585	73	11.1	385	8	4	92	280
55 to 59 years	410	72.7	410	357	53	12.8	154	6	2	45	101
60 to 64 years	249	51.9	249	228	21	8.3	231	3	2	47	179
65 years and over	195	19.5	195	179	16	8.2	804	27	--	63	715

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

[Numbers in thousands]

Sex, age, and race	November 1982										
	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	48,677	53.3	48,488	43,672	4,816	9.9	42,684	31,273	4,808	1,043	5,560
16 to 21 years	6,810	56.5	6,746	5,439	1,307	19.4	5,249	1,054	3,841	15	339
16 to 19 years	3,945	50.5	3,922	3,052	870	22.2	3,865	467	3,174	10	214
16 to 17 years	1,492	39.9	1,491	1,128	363	24.3	2,243	78	2,084	1	80
18 to 19 years	2,453	60.2	2,431	1,923	508	20.9	1,621	389	1,089	9	134
20 to 64 years	43,535	63.6	43,369	39,467	3,902	9.0	24,867	20,549	1,627	467	2,224
20 to 24 years	7,615	70.6	7,524	6,495	1,028	13.7	3,173	1,863	1,001	15	295
25 to 54 years	30,943	67.4	30,869	28,269	2,600	8.4	14,948	13,032	607	254	1,055
25 to 29 years	7,367	70.7	7,318	6,556	762	10.4	3,056	2,564	283	23	187
30 to 34 years	6,426	67.8	6,407	5,833	575	9.0	3,053	2,690	135	32	197
35 to 39 years	5,497	68.6	5,492	5,048	444	8.1	2,511	2,195	90	43	183
40 to 44 years	4,491	69.5	4,489	4,149	340	7.6	1,972	1,755	50	32	135
45 to 49 years	3,715	65.3	3,714	3,468	246	6.6	1,976	1,765	30	47	134
50 to 54 years	3,448	59.2	3,448	3,215	233	6.8	2,379	2,063	20	77	220
55 to 64 years	4,977	42.5	4,977	4,704	273	5.5	6,746	5,654	20	198	875
55 to 59 years	3,037	50.2	3,037	2,859	178	5.9	3,008	2,585	13	102	308
60 to 64 years	1,939	34.2	1,939	1,845	95	4.9	3,737	3,069	6	95	567
65 years and over	1,197	7.9	1,197	1,153	44	3.7	13,952	10,257	8	566	3,121
65 to 69 years	736	15.0	736	708	28	3.8	4,178	3,295	5	86	792
70 years and over	461	4.5	461	445	16	3.5	9,774	6,963	3	480	2,329
<b>White</b>											
16 years and over	41,812	53.2	41,678	37,988	3,690	8.9	36,835	27,571	3,731	613	4,722
16 to 21 years	5,959	59.6	5,914	4,912	1,002	16.9	4,046	800	3,011	15	221
16 to 19 years	3,486	53.9	3,469	2,794	675	19.5	2,982	360	2,478	9	134
16 to 17 years	1,343	43.5	1,342	1,047	296	22.0	1,745	64	1,622	1	58
18 to 19 years	2,143	63.4	2,127	1,747	380	17.8	1,237	296	857	6	76
20 to 64 years	37,234	63.7	37,116	34,140	2,976	8.0	21,258	17,848	1,244	350	1,814
20 to 24 years	6,511	72.4	6,447	5,703	744	11.5	2,481	1,508	761	15	197
25 to 54 years	26,350	67.4	26,296	24,282	2,014	7.7	12,735	11,219	468	188	861
25 to 29 years	11,583	69.3	11,536	10,538	998	8.6	5,128	4,475	309	43	301
30 to 34 years	8,569	69.2	8,564	7,925	639	7.5	3,810	3,388	113	50	259
35 to 44 years	6,197	62.0	6,196	5,819	377	6.1	3,796	3,355	46	95	300
55 to 64 years	4,373	42.0	4,373	4,154	219	5.0	6,042	5,122	15	149	757
55 to 59 years	2,655	49.7	2,655	2,515	140	5.3	2,686	2,341	11	74	259
60 to 64 years	1,718	33.9	1,718	1,640	78	4.6	3,356	2,781	4	74	497
65 years and over	1,092	8.0	1,092	1,054	38	3.5	12,596	9,362	8	453	2,773
<b>Black and other</b>											
16 years and over	6,866	54.0	6,810	5,684	1,127	16.5	5,848	3,703	1,078	230	838
16 to 21 years	851	41.4	832	526	305	36.7	1,204	255	830	1	119
16 to 19 years	459	34.2	453	257	195	43.2	883	107	695	1	80
16 to 17 years	149	23.0	149	82	67	45.2	498	14	463	--	22
18 to 19 years	310	44.7	304	176	128	42.1	384	93	233	1	58
20 to 64 years	6,301	63.6	6,253	5,327	924	14.8	3,609	2,701	382	115	410
20 to 24 years	1,104	61.5	1,076	792	284	26.4	692	355	240	--	97
25 to 54 years	4,593	67.5	4,573	3,987	586	12.8	2,214	1,813	139	66	195
25 to 29 years	2,209	69.2	2,189	1,850	339	15.5	981	779	108	12	83
30 to 44 years	1,418	67.8	1,417	1,272	145	10.2	673	563	27	25	59
45 to 54 years	966	63.4	966	864	102	10.6	559	472	4	29	54
55 to 64 years	604	46.2	604	549	54	9.0	703	532	4	49	118
55 to 59 years	382	54.3	382	344	38	9.9	322	244	2	28	48
60 to 64 years	221	36.7	221	205	17	7.5	381	288	2	22	70
65 years and over	105	7.2	105	99	7	6.2	1,356	895	--	114	348

# HOUSEHOLD DATA

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982
<b>MALES</b>								
16 years and over	63,665	64,358	76.8	76.7	61,691	62,367	76.2	76.2
16 to 19 years	4,732	4,406	57.1	54.9	4,447	4,173	55.6	53.6
16 to 17 years	1,792	1,624	44.3	42.2	1,772	1,613	44.0	42.0
18 to 19 years	2,941	2,782	69.3	66.7	2,676	2,561	67.3	64.8
20 to 24 years	9,207	9,263	84.5	85.0	8,463	8,486	83.4	83.8
25 to 54 years	40,800	41,659	94.3	94.1	39,857	40,679	94.1	94.0
25 to 34 years	18,255	18,513	94.9	94.6	17,617	17,855	94.8	94.4
35 to 44 years	12,654	13,326	95.5	95.5	12,383	13,042	95.4	95.4
45 to 54 years	9,892	9,820	91.6	91.4	9,856	9,783	91.5	91.4
55 to 64 years	7,083	7,175	69.6	70.1	7,082	7,174	69.6	70.1
55 to 59 years	4,353	4,365	80.4	81.1	4,351	4,364	80.4	81.1
60 to 64 years	2,731	2,810	57.3	57.9	2,731	2,810	57.3	57.9
65 years and over	1,842	1,854	18.0	17.7	1,842	1,854	18.0	17.7
<b>White</b>								
16 years and over	56,151	56,445	77.6	77.4	54,634	54,915	77.1	76.9
16 to 19 years	4,187	3,853	60.5	58.0	3,964	3,668	59.2	56.8
16 to 17 years	1,636	1,460	48.5	45.9	1,619	1,450	48.3	45.7
18 to 19 years	2,552	2,393	71.9	69.2	2,345	2,218	70.2	67.5
20 to 24 years	7,900	7,883	85.6	86.2	7,351	7,305	84.7	85.3
25 to 54 years	35,932	36,533	95.1	94.9	35,188	35,767	95.0	94.8
25 to 34 years	15,937	16,050	95.9	95.5	15,449	15,552	95.8	95.3
35 to 44 years	11,148	11,750	96.1	96.3	10,923	11,513	96.0	96.2
45 to 54 years	8,847	8,734	92.5	92.3	8,816	8,702	92.5	92.2
55 to 64 years	6,437	6,517	70.3	70.9	6,436	6,515	70.3	70.9
55 to 59 years	3,940	3,955	81.0	82.1	3,939	3,954	81.0	82.1
60 to 64 years	2,496	2,562	58.1	58.6	2,496	2,561	58.1	58.6
65 years and over	1,696	1,660	18.3	17.6	1,696	1,660	18.3	17.6
<b>Black and other</b>								
16 years and over	7,514	7,913	71.3	72.1	7,057	7,452	70.0	70.9
16 to 19 years	545	553	39.9	40.0	484	506	37.1	37.8
16 to 17 years	156	164	23.2	24.5	153	163	22.8	24.3
18 to 19 years	389	389	56.1	54.5	331	343	52.1	51.3
20 to 24 years	1,307	1,380	78.5	78.5	1,111	1,181	75.7	75.8
25 to 54 years	4,869	5,126	88.4	88.6	4,669	4,912	87.9	88.1
25 to 34 years	2,318	2,463	88.6	89.1	2,168	2,303	87.9	88.5
35 to 44 years	1,506	1,576	91.3	90.4	1,460	1,529	91.0	90.1
45 to 54 years	1,045	1,086	83.9	84.9	1,040	1,081	83.9	84.8
55 to 64 years	647	659	63.1	63.1	646	659	63.1	63.1
55 to 59 years	412	410	74.5	72.7	412	410	74.5	72.7
60 to 64 years	234	249	49.8	51.9	234	249	49.8	51.9
65 years and over	147	195	15.0	19.5	147	195	15.0	19.5

HOUSEHOLD DATA

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982
<b>FEMALES</b>								
16 years and over	47,672	48,677	52.8	53.3	47,487	48,488	52.7	53.2
16 to 19 years	4,036	3,945	50.0	50.5	4,007	3,922	49.9	50.4
16 to 17 years	1,586	1,492	40.4	39.9	1,584	1,491	40.4	39.9
18 to 19 years	2,451	2,453	59.2	60.2	2,423	2,431	58.9	60.0
20 to 24 years	7,569	7,615	70.0	70.6	7,481	7,524	69.8	70.3
25 to 54 years	30,026	30,943	66.8	67.4	29,959	30,869	66.8	67.4
25 to 34 years	13,432	13,792	68.6	69.3	13,371	13,725	68.5	69.2
35 to 44 years	9,454	9,988	68.7	69.0	9,449	9,981	68.7	69.0
45 to 54 years	7,140	7,163	61.6	62.2	7,140	7,162	61.6	62.2
55 to 64 years	4,838	4,977	41.6	42.5	4,838	4,977	41.6	42.5
55 to 59 years	3,037	3,037	49.9	50.2	3,037	3,037	49.9	50.2
60 to 64 years	1,801	1,939	32.4	34.2	1,801	1,939	32.4	34.2
65 years and over	1,202	1,197	8.1	7.9	1,202	1,197	8.1	7.9
<b>White</b>								
16 years and over	40,967	41,812	52.6	53.2	40,835	41,678	52.5	53.1
16 to 19 years	3,564	3,486	53.4	53.9	3,544	3,469	53.2	53.8
16 to 17 years	1,451	1,343	44.8	43.5	1,450	1,342	44.8	43.5
18 to 19 years	2,113	2,143	61.5	63.4	2,094	2,127	61.2	63.2
20 to 24 years	6,506	6,511	71.8	72.4	6,443	6,447	71.6	72.2
25 to 54 years	25,587	26,350	66.6	67.4	25,538	26,296	66.6	67.4
25 to 34 years	11,340	11,583	68.6	69.3	11,297	11,536	68.5	69.2
35 to 44 years	8,064	8,569	68.2	69.2	8,060	8,564	68.2	69.2
45 to 54 years	6,183	6,197	61.4	62.0	6,182	6,196	61.4	62.0
55 to 64 years	4,242	4,373	40.9	42.0	4,242	4,373	40.9	42.0
55 to 59 years	2,663	2,655	49.4	49.7	2,663	2,655	49.4	49.7
60 to 64 years	1,579	1,718	31.7	33.9	1,579	1,718	31.7	33.9
65 years and over	1,068	1,092	8.0	8.0	1,068	1,092	8.0	8.0
<b>Black and other</b>								
16 years and over	6,705	6,866	54.4	54.0	6,652	6,810	54.2	53.8
16 to 19 years	472	459	34.0	34.2	463	453	33.6	33.9
16 to 17 years	135	149	19.7	23.0	134	149	19.7	23.0
18 to 19 years	337	310	47.9	44.7	329	304	47.3	44.1
20 to 24 years	1,063	1,104	60.7	61.5	1,037	1,076	60.1	60.9
25 to 54 years	4,440	4,593	68.2	67.5	4,421	4,573	68.1	67.4
25 to 34 years	2,091	2,209	68.7	69.2	2,075	2,189	68.5	69.0
35 to 44 years	1,390	1,418	71.4	67.8	1,389	1,417	71.4	67.8
45 to 54 years	958	966	63.1	63.4	958	966	63.1	63.4
55 to 64 years	596	604	46.8	46.2	596	604	46.8	46.2
55 to 59 years	374	382	53.8	54.3	374	382	53.8	54.3
60 to 64 years	222	221	38.3	36.7	222	221	38.3	36.7
65 years and over	134	105	9.5	7.2	134	105	9.5	7.2

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

[Numbers in thousands]

Sex and age	November 1982						Not in labor force	
	Civilian labor force							
	Total	Employed		Unemployed				Percent of labor force
		Total	Agriculture	Nonagricultural industries	Number			
<b>TOTAL</b>								
16 years and over .....	11,447	9,210	203	9,007	2,237	19.5	7,277	
16 to 19 years .....	782	383	19	364	400	51.1	1,450	
16 to 17 years .....	242	110	6	103	132	54.7	857	
18 to 19 years .....	541	273	13	261	268	49.5	592	
20 to 24 years .....	1,898	1,311	22	1,289	587	30.9	819	
25 to 54 years .....	7,481	6,344	113	6,231	1,137	15.2	2,220	
25 to 34 years .....	3,560	2,898	46	2,853	661	18.6	932	
35 to 44 years .....	2,296	1,985	33	1,951	311	13.5	646	
45 to 54 years .....	1,626	1,461	34	1,426	165	10.1	642	
55 to 64 years .....	1,020	924	29	895	96	9.4	922	
55 to 59 years .....	648	582	19	563	66	10.2	393	
60 to 64 years .....	371	342	11	331	30	8.0	528	
65 years and over .....	266	248	20	229	17	6.5	1,867	
<b>Males</b>								
16 years and over .....	5,885	4,646	176	4,470	1,239	21.0	2,463	
16 to 19 years .....	408	184	6	179	224	54.9	681	
16 to 17 years .....	122	50	--	50	71	58.8	425	
18 to 19 years .....	287	134	6	129	153	53.3	257	
20 to 24 years .....	983	670	20	650	314	31.9	255	
25 to 54 years .....	3,811	3,181	103	3,079	630	16.5	508	
25 to 34 years .....	1,794	1,432	40	1,392	363	20.2	214	
35 to 44 years .....	1,179	992	31	961	187	15.8	128	
45 to 54 years .....	838	757	31	725	81	9.6	166	
55 to 64 years .....	513	453	29	425	59	11.6	336	
55 to 59 years .....	325	280	19	261	46	14.0	131	
60 to 64 years .....	187	174	10	163	14	7.3	205	
65 years and over .....	169	157	19	139	11	6.8	683	
<b>Females</b>								
16 years and over .....	5,562	4,564	27	4,537	998	17.9	4,814	
16 to 19 years .....	374	199	13	185	176	46.9	768	
16 to 17 years .....	120	59	6	53	61	50.5	433	
18 to 19 years .....	254	139	7	132	115	45.2	335	
20 to 24 years .....	915	641	2	639	273	29.9	564	
25 to 54 years .....	3,670	3,163	10	3,152	507	13.8	1,712	
25 to 34 years .....	1,765	1,467	6	1,461	299	16.9	718	
35 to 44 years .....	1,116	992	2	990	124	11.1	518	
45 to 54 years .....	788	704	3	701	84	10.7	475	
55 to 64 years .....	507	471	--	470	36	7.2	586	
55 to 59 years .....	323	302	--	303	21	6.4	262	
60 to 64 years .....	184	168	1	168	16	8.6	324	
65 years and over .....	97	91	1	90	6	6.1	1,184	

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

[Numbers in thousands]

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982
<b>TOTAL</b>								
Total noninstitutional population	173,155	175,238	74,610	75,852	82,193	83,551	16,351	15,935
Total labor force	111,337	113,035	58,933	59,952	43,636	44,732	8,769	8,351
Percent of population	64.3	64.5	79.0	79.0	53.1	53.5	53.6	52.7
Civilian labor force	109,179	110,855	57,244	58,193	43,480	44,566	8,454	8,095
Employed	100,502	99,379	53,471	52,670	40,418	40,620	6,614	6,089
Agriculture	3,288	3,360	2,399	2,460	617	552	272	348
Nonagricultural industries	97,214	96,019	51,072	50,210	39,801	40,068	6,342	5,741
Unemployed	8,676	11,476	3,773	5,523	3,063	3,946	1,841	2,007
Percent of labor force	7.9	10.4	6.6	9.5	7.0	8.9	21.8	24.8
Not in labor force	61,818	62,203	15,678	15,900	38,558	38,819	7,582	7,484
<b>White</b>								
Total noninstitutional population	150,281	151,551	65,434	66,264	71,250	72,179	13,597	13,108
Total labor force	97,118	98,256	51,964	52,592	37,402	38,326	7,751	7,338
Percent of population	64.6	64.8	79.4	79.4	52.5	53.1	57.0	56.0
Civilian labor force	95,469	96,593	50,670	51,247	37,291	38,208	7,508	7,137
Employed	88,800	87,672	47,766	46,899	34,984	35,194	6,050	5,579
Agriculture	3,042	3,091	2,205	2,237	576	528	261	327
Nonagricultural industries	85,758	84,581	45,560	44,662	34,408	34,666	5,789	5,253
Unemployed	6,669	8,921	2,905	4,349	2,307	3,014	1,458	1,558
Percent of labor force	7.0	9.2	5.7	8.5	6.2	7.9	19.4	21.8
Not in labor force	53,162	53,294	13,469	13,672	33,847	33,854	5,846	5,769
<b>Black and other</b>								
Total noninstitutional population	22,874	23,687	9,177	9,588	10,944	11,372	2,754	2,727
Total labor force	14,219	14,778	6,969	7,359	6,233	6,406	1,017	1,013
Percent of population	62.2	62.4	75.9	76.8	57.0	56.3	36.9	37.1
Civilian labor force	13,710	14,262	6,574	6,946	6,189	6,358	947	958
Employed	11,703	11,707	5,705	5,771	5,433	5,426	564	509
Agriculture	246	269	154	223	41	25	11	21
Nonagricultural industries	11,456	11,439	5,511	5,549	5,392	5,402	553	488
Unemployed	2,007	2,555	868	1,175	756	931	383	449
Percent of labor force	14.6	17.9	13.2	16.5	12.2	14.6	40.4	46.8
Not in labor force	8,655	8,908	2,208	2,229	4,710	4,965	1,737	1,714

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## A-7. Employment status of the noninstitutional population 16 to 21 years of age by major activity, sex, and race

[Numbers in thousands]

Employment status and major activity	November 1982								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
<b>TOTAL</b>									
Total noninstitutional population .....	24,407	12,348	12,059	20,240	10,236	10,004	4,166	2,112	2,054
Total labor force .....	14,660	7,851	6,810	12,712	6,753	5,959	1,949	1,058	951
Percent of population .....	60.1	63.6	56.5	62.8	66.0	59.6	46.8	52.0	41.4
Civilian labor force .....	13,990	7,244	6,746	12,199	6,285	5,914	1,791	959	832
Employed .....	10,944	5,505	5,439	9,871	4,958	4,912	1,073	547	526
Agriculture .....	528	442	85	490	420	70	38	22	16
Nonagricultural industries .....	10,416	5,063	5,353	9,380	4,538	4,843	1,036	525	511
Unemployed .....	3,046	1,739	1,307	2,328	1,327	1,002	718	412	305
Looking for full-time work .....	1,898	1,123	774	1,407	834	572	491	289	202
Looking for part-time work .....	1,148	616	533	922	492	429	227	123	103
Percent of labor force .....	21.8	24.0	19.4	19.1	21.1	16.9	40.1	43.0	36.7
Not in labor force .....	9,746	4,497	5,249	7,529	3,483	4,046	2,218	1,014	1,204
Major activity: going to school									
Civilian labor force .....	4,661	2,316	2,345	4,141	2,055	2,086	520	261	259
Employed .....	3,523	1,689	1,834	3,252	1,557	1,696	271	133	138
Agriculture .....	170	143	27	161	141	20	9	2	7
Nonagricultural industries .....	3,353	1,547	1,806	3,092	1,416	1,676	261	131	130
Unemployed .....	1,138	627	511	888	498	390	250	128	121
Looking for full-time work .....	111	56	56	71	40	31	40	16	24
Looking for part-time work .....	1,027	571	456	818	459	359	209	112	97
Percent of labor force .....	24.4	27.1	21.8	21.5	24.3	18.7	48.0	49.2	46.8
Not in labor force .....	7,879	4,038	3,841	6,166	3,157	3,011	1,710	881	830
Major activity: other									
Civilian labor force .....	9,329	4,928	4,401	8,058	4,230	3,828	1,271	698	573
Employed .....	7,421	3,816	3,605	6,618	3,402	3,217	803	414	389
Agriculture .....	358	299	58	330	280	50	28	20	8
Nonagricultural industries .....	7,063	3,516	3,547	6,289	3,122	3,167	774	394	380
Unemployed .....	1,908	1,112	796	1,440	828	612	468	284	194
Looking for full-time work .....	1,786	1,068	719	1,336	795	541	451	273	178
Looking for part-time work .....	122	45	77	104	34	71	18	11	6
Percent of labor force .....	20.5	22.6	18.1	17.9	19.6	16.0	36.8	40.7	32.2
Not in labor force .....	1,868	459	1,409	1,360	326	1,035	507	134	374



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

(Numbers in thousands)

Sex, age, and race	November 1982								
	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	94,020	77,964	6,527	9,528	10.1	16,835	14,888	1,947	11.6
16 to 21 years	8,087	4,872	1,317	1,898	23.5	5,903	4,755	1,148	19.5
16 to 19 years	3,600	1,807	762	1,032	28.7	4,495	3,520	975	21.7
16 to 17 years	481	158	123	199	41.4	2,623	1,969	654	24.9
18 to 19 years	3,119	1,648	638	833	26.7	1,872	1,552	321	17.1
20 years and over	90,419	76,157	5,766	8,496	9.4	12,340	11,368	973	7.9
20 to 24 years	13,292	9,836	1,287	2,169	16.3	2,717	2,387	330	12.1
25 years and over	77,127	66,321	4,480	6,327	8.2	9,623	8,980	643	6.7
25 to 54 years	64,925	55,589	3,647	5,690	8.8	6,623	6,143	480	7.2
55 years and over	12,202	10,732	833	637	5.2	3,000	2,837	163	5.4
<b>Males, 16 years and over</b>	<b>57,012</b>	<b>48,069</b>	<b>3,146</b>	<b>5,757</b>	<b>10.2</b>	<b>5,355</b>	<b>4,493</b>	<b>862</b>	<b>16.1</b>
16 to 21 years	4,483	2,712	647	1,123	25.1	2,761	2,146	616	22.3
16 to 19 years	1,985	1,018	363	603	30.4	2,188	1,656	533	24.3
20 years and over	55,027	47,050	2,782	5,194	9.4	3,167	2,837	329	10.4
20 to 24 years	7,424	5,447	657	1,321	17.8	1,061	912	150	14.1
25 years and over	47,602	41,604	2,126	3,872	8.1	2,106	1,925	179	8.5
25 to 54 years	39,760	34,598	1,686	3,476	8.7	919	826	93	10.1
55 years and over	7,841	7,006	439	357	5.1	1,186	1,099	86	7.3
<b>Females, 16 years and over</b>	<b>37,008</b>	<b>29,895</b>	<b>3,382</b>	<b>3,731</b>	<b>10.1</b>	<b>11,480</b>	<b>10,395</b>	<b>1,085</b>	<b>9.5</b>
16 to 21 years	3,604	2,160	670	774	21.5	3,142	2,609	533	17.0
16 to 19 years	1,615	789	398	429	26.5	2,307	1,865	442	19.2
20 years and over	35,393	29,107	2,983	3,303	9.3	9,173	8,530	643	7.0
20 to 24 years	5,868	4,390	630	848	14.5	1,656	1,476	180	10.9
25 years and over	29,525	24,716	2,354	2,455	8.3	7,517	7,055	464	6.2
25 to 54 years	25,164	20,991	1,959	2,214	8.8	5,704	5,317	387	6.8
55 years and over	4,360	3,725	394	241	5.5	1,813	1,737	77	4.2
<b>White</b>									
<b>Males, 16 years and over</b>	<b>50,161</b>	<b>42,981</b>	<b>2,631</b>	<b>4,549</b>	<b>9.1</b>	<b>4,754</b>	<b>4,072</b>	<b>683</b>	<b>14.4</b>
16 to 21 years	3,819	2,449	536	834	21.8	2,466	1,973	492	20.0
16 to 19 years	1,714	953	310	451	26.3	1,953	1,522	432	22.1
20 years and over	48,447	42,028	2,321	4,098	8.5	2,801	2,550	251	9.0
20 to 24 years	6,355	4,820	536	998	15.7	950	829	121	12.7
25 years and over	42,091	37,207	1,785	3,099	7.4	1,851	1,721	131	7.1
25 to 54 years	34,983	30,796	1,417	2,770	7.9	784	719	66	8.4
55 years and over	7,108	6,412	367	329	4.6	1,066	1,002	65	6.1
<b>Females, 16 years and over</b>	<b>31,229</b>	<b>25,684</b>	<b>2,754</b>	<b>2,791</b>	<b>8.9</b>	<b>10,448</b>	<b>9,550</b>	<b>898</b>	<b>8.6</b>
16 to 21 years	3,091	1,961	558	572	18.5	2,823	2,394	429	15.2
16 to 19 years	1,389	728	341	320	23.0	2,081	1,725	355	17.1
20 years and over	29,841	24,956	2,413	2,472	8.3	8,368	7,825	543	6.5
20 to 24 years	4,967	3,860	506	601	12.1	1,481	1,337	143	9.7
25 years and over	24,874	21,096	1,908	1,871	7.5	6,887	6,487	400	5.8
25 to 54 years	21,043	17,779	1,587	1,677	8.0	5,252	4,916	337	6.4
55 years and over	3,831	3,317	321	194	5.1	1,634	1,571	63	3.9
<b>Black and other</b>									
<b>Males, 16 years and over</b>	<b>6,651</b>	<b>5,087</b>	<b>515</b>	<b>1,249</b>	<b>18.2</b>	<b>601</b>	<b>421</b>	<b>180</b>	<b>29.9</b>
16 to 21 years	663	263	111	289	43.6	296	172	123	41.7
16 to 19 years	271	65	53	152	56.3	235	134	101	43.1
20 years and over	6,580	5,022	461	1,096	16.7	366	288	78	21.4
20 to 24 years	1,069	626	120	323	30.2	111	82	29	25.9
25 years and over	5,511	4,395	340	773	14.0	254	205	50	19.7
25 to 54 years	4,778	3,802	269	706	14.8	135	107	28	20.7
55 years and over	733	594	71	67	9.1	119	98	22	18.5
<b>Females, 16 years and over</b>	<b>5,779</b>	<b>4,211</b>	<b>627</b>	<b>940</b>	<b>16.3</b>	<b>1,032</b>	<b>845</b>	<b>187</b>	<b>18.1</b>
16 to 21 years	513	199	112	202	39.4	319	215	103	32.5
16 to 19 years	227	60	58	109	48.0	226	139	86	38.3
20 years and over	5,552	4,151	570	831	15.0	806	705	100	12.5
20 to 24 years	901	530	124	247	27.5	175	138	37	21.1
25 years and over	4,651	3,621	446	583	12.5	631	568	64	10.1
25 to 54 years	4,121	3,213	372	536	13.0	452	401	50	11.1
55 years and over	530	409	74	47	8.9	179	166	14	7.8

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

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

[Numbers in thousands]

Family relationship	November 1982									
	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> .....	110,855	64.1	99,379	11,476	10.4	62,203	31,640	9,835	2,537	18,191
<b>Husbands</b> .....	39,629	79.8	36,908	2,721	6.9	10,002	156	261	876	8,709
With employed wife .....	22,090	91.9	20,734	1,356	6.1	1,955	52	140	277	1,486
With unemployed wife .....	1,958	93.7	1,578	380	19.4	132	7	9	28	88
With wife not in labor force .....	15,581	66.3	14,596	985	6.3	7,914	97	112	571	7,135
<b>Wives</b> .....	26,135	52.7	24,045	2,090	8.0	23,495	20,858	411	271	1,955
With employed husband .....	22,312	60.5	20,734	1,578	7.1	14,596	13,419	341	88	748
With unemployed husband .....	1,736	63.8	1,356	380	21.9	985	925	15	8	37
With husband not in labor force .....	2,087	20.9	1,955	132	6.3	7,914	6,515	55	175	1,169
<b>Relatives in married-couple families</b> .....	13,523	61.5	10,981	2,542	18.8	8,471	813	6,060	287	1,310
16 to 19 years .....	5,395	51.7	4,219	1,176	21.8	5,035	104	4,624	12	295
20 to 24 years .....	5,270	75.7	4,372	898	17.0	1,695	114	1,294	30	257
25 years and over .....	2,858	62.1	2,390	468	16.4	1,741	595	142	245	758
<b>Females who maintain families</b> .....	5,770	60.1	5,036	733	12.7	3,834	2,930	174	132	598
<b>Relatives in families maintained by females</b> .....	4,878	56.6	3,604	1,274	26.1	3,735	839	1,736	233	926
16 to 19 years .....	1,357	46.1	853	504	37.1	1,585	90	1,349	2	143
20 to 24 years .....	1,526	70.7	1,093	433	28.4	632	142	320	12	158
25 years and over .....	1,995	56.8	1,658	337	16.9	1,518	607	67	219	625
<b>Males who maintain families</b> .....	1,865	75.2	1,648	217	11.6	615	41	26	84	463
<b>Relatives in families maintained by males</b> .....	1,589	59.0	1,263	326	20.5	1,105	437	348	74	247
16 to 19 years .....	307	50.8	200	107	34.8	298	16	257	2	24
20 to 24 years .....	468	76.4	367	101	21.6	144	45	67	3	29
25 years and over .....	814	55.1	696	118	14.5	663	376	24	69	194
<b>Persons living alone</b> .....	10,427	53.9	9,657	770	7.4	8,913	4,853	278	467	3,316
Males .....	5,391	71.4	4,864	527	9.8	2,162	110	157	196	1,699
Females .....	5,036	42.7	4,793	243	4.8	6,751	4,743	120	270	1,618
<b>All others</b> .....	7,039	77.6	6,237	803	11.4	2,033	713	541	113	667

<sup>1</sup> The majority of these persons are living with nonrelatives. Also included are persons in married-couple families where the husband is in the Armed Forces, persons in secondary families, and some whose family status is unknown.

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

Marital status, race, and age	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982
	<b>Total, 16 years and over</b> .....	4,789	6,660	7.8	10.7	3,887	4,816	8.2
Married, spouse present .....	1,866	2,868	4.6	7.1	1,658	2,199	6.4	8.3
Widowed, divorced, or separated .....	536	791	9.7	13.9	818	921	8.7	9.8
Single (never married) .....	2,388	3,000	15.3	18.7	1,411	1,697	11.7	13.6
<b>White, 16 years and over</b> .....	3,729	5,231	6.8	9.5	2,940	3,690	7.2	8.9
Married, spouse present .....	1,536	2,434	4.2	6.6	1,375	1,855	5.9	7.8
Widowed, divorced, or separated .....	387	606	8.6	13.1	588	667	7.8	8.9
Single (never married) .....	1,806	2,191	13.5	16.2	976	1,168	9.6	11.3
<b>Black and other, 16 years and over</b> .....	1,060	1,428	15.0	19.2	947	1,127	14.2	16.5
Married, spouse present .....	330	434	8.7	11.1	283	344	10.2	12.1
Widowed, divorced, or separated .....	149	185	14.3	17.7	229	254	12.0	13.6
Single (never married) .....	581	809	26.0	32.3	435	529	22.0	25.1
<b>Total, 20 to 64 years of age</b> .....	3,725	5,436	6.7	9.6	3,020	3,902	7.1	9.0
Married, spouse present .....	1,794	2,781	4.6	7.1	1,591	2,082	6.3	8.1
Widowed, divorced, or separated .....	520	771	9.9	14.2	768	883	8.8	10.2
Single (never married) .....	1,411	1,883	12.5	15.7	661	937	7.5	10.6
<b>White, 20 to 64 years of age</b> .....	2,864	4,278	5.8	8.6	2,277	2,976	6.3	8.0
Married, spouse present .....	1,473	2,363	4.2	6.7	1,312	1,754	5.8	7.6
Widowed, divorced, or separated .....	376	589	8.8	13.3	552	634	8.0	9.2
Single (never married) .....	1,014	1,326	10.7	13.3	415	590	6.1	8.2
<b>Black and other, 20 to 64 years of age</b> .....	861	1,159	13.4	17.2	743	924	12.3	14.8
Married, spouse present .....	321	419	8.8	11.1	280	329	10.3	11.9
Widowed, divorced, or separated .....	144	182	14.5	18.5	216	250	11.9	13.9
Single (never married) .....	396	558	22.5	27.9	247	347	16.2	20.5

## A-11. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982
Total, 16 years and over	8,676	11,476	7.9	10.4	7.8	10.7	8.2	9.9
White-collar workers	2,274	3,060	4.1	5.4	2.8	4.1	5.1	6.4
Professional and technical	441	633	2.6	3.5	2.2	3.2	3.0	3.9
Managers and administrators, except farm	359	486	3.1	4.0	2.5	3.2	4.4	6.1
Sales workers	331	442	4.8	6.2	3.5	5.2	6.4	7.3
Clerical workers	1,143	1,499	5.8	7.5	4.4	7.4	6.1	7.5
Blue-collar workers	3,826	5,301	11.1	15.6	10.6	15.1	13.1	17.6
Craft and kindred workers	1,008	1,501	7.5	11.0	7.7	11.4	5.1	6.5
Carpenters and other construction craft workers	509	712	12.5	16.4	12.6	16.7	8.1	8.0
All other	499	789	5.3	8.5	5.4	8.7	4.6	6.3
Operatives, except transport	1,585	2,257	13.3	20.2	12.3	19.9	14.7	20.6
Transport equipment operatives	343	466	8.9	12.2	8.9	12.2	8.5	13.0
Nonfarm laborers	890	1,077	16.6	19.8	16.8	20.2	14.7	16.2
Construction laborers	240	294	24.6	28.5	24.5	28.5	(1)	(1)
All other	650	783	14.8	17.7	14.9	18.1	14.4	15.4
Service workers	1,446	1,705	9.6	11.0	9.5	11.6	9.6	10.5
Private household	50	85	4.3	7.0	(1)	(1)	4.2	7.0
All other	1,396	1,620	10.0	11.3	9.5	11.7	10.4	11.0
Farm workers	206	256	7.1	8.7	6.5	7.7	9.4	13.2
No previous work experience	925	1,155	--	--	--	--	--	--
16 to 19 years	662	862	--	--	--	--	--	--
20 to 24 years	166	168	--	--	--	--	--	--
25 years and over	96	125	--	--	--	--	--	--

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

## A-12. Unemployed persons by industry and sex

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982
Total, 16 years and over	100.0	100.0	7.9	10.4	7.8	10.7	8.2	9.9
Nonagricultural private wage and salary workers	74.7	78.1	8.0	11.0	8.1	11.6	8.0	10.2
Mining	.9	1.4	6.3	15.9	6.9	18.2	3.7	1.9
Construction	9.2	8.8	15.7	19.4	16.1	19.9	11.5	13.5
Manufacturing	23.8	27.4	9.0	14.2	8.0	13.3	11.0	16.0
Durable goods	14.4	18.9	9.0	16.4	8.6	15.8	10.0	17.9
Lumber and wood products	1.4	1.0	17.5	17.7	17.1	17.9	20.5	17.1
Furniture and fixtures	.7	.7	10.5	15.3	9.4	13.5	12.6	19.3
Stone, clay, and glass products	.6	.9	7.4	16.7	6.5	16.1	10.6	19.0
Primary metal industries	1.7	2.5	11.8	26.7	12.3	26.3	8.1	29.9
Fabricated metal products	1.8	2.2	10.4	18.2	10.1	18.1	11.4	18.3
Machinery, except electrical equipment	2.1	3.9	6.2	16.1	5.7	15.8	7.7	17.3
Electrical equipment	2.3	2.9	8.0	13.0	6.2	10.7	10.3	16.0
Transportation equipment	2.8	3.2	10.5	17.5	10.1	16.3	12.0	22.2
Automobiles	2.0	2.1	14.5	23.1	13.2	20.4	20.0	34.9
Other transportation equipment	.8	1.1	6.1	12.2	6.8	12.2	2.9	11.5
Instruments and related products	.2	.6	3.4	10.5	1.9	9.5	5.5	11.8
Other durable goods industries	.7	.9	8.5	12.7	8.2	7.2	9.3	19.5
Nondurable goods	9.4	8.5	9.0	11.0	6.8	8.8	12.0	14.1
Food and kindred products	2.4	2.2	11.1	13.1	8.7	11.0	16.5	17.3
Textile mill products	1.2	.7	12.8	10.6	12.0	10.2	13.5	11.2
Apparel and other textile products	1.9	1.8	12.1	16.0	9.3	14.5	12.8	16.4
Paper and allied products	.5	.5	5.4	7.4	3.7	6.9	11.4	9.2
Printing and publishing	.8	.9	4.2	6.6	2.4	6.5	6.4	6.7
Chemicals and allied products	.8	.8	5.5	7.9	3.6	6.0	9.6	12.1
Rubber and plastics products	1.0	.8	12.0	12.9	12.2	10.4	11.7	17.5
Other nondurable goods industries	.8	.8	10.9	14.0	8.3	8.4	14.7	21.2
Transportation and public utilities	3.4	4.0	5.0	7.9	5.5	8.2	3.7	6.9
Railroads and railway express	.3	.6	1.1	13.3	4.2	12.7	(1)	(1)
Other transportation	2.5	2.7	11.4	11.4	8.3	11.5	6.5	10.8
Communication and other public utilities	.6	.6	2.0	2.9	2.2	2.6	1.8	3.6
Wholesale and retail trade	20.1	19.2	8.5	10.4	7.5	9.5	9.6	11.4
Finance, insurance, and real estate	2.1	2.9	3.3	5.6	2.8	5.7	3.5	5.5
Service industries	15.2	14.3	6.8	8.1	7.3	9.0	6.5	7.5
Professional services	6.1	5.3	4.7	5.2	4.3	5.0	4.9	5.3
All other service industries	9.1	9.0	9.7	12.1	10.0	12.6	9.5	11.6
Agricultural wage and salary workers	2.9	2.9	15.7	17.8	14.5	16.7	20.0	22.3
All other classes of workers	11.7	9.0	3.5	3.9	3.4	3.7	4.5	4.2
No previous work experience	10.7	10.1	--	--	--	--	--	--

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

# HOUSEHOLD DATA

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed, in thousands.....	8,676	11,476	3,773	5,523	3,063	3,946	1,841	2,007	6,669	8,921	2,007	2,555
Job losers.....	4,553	7,029	2,730	4,449	1,364	2,657	459	484	3,531	5,546	1,023	1,483
On layoff.....	1,546	2,261	945	1,518	469	616	132	127	1,303	1,931	242	330
Other job losers.....	3,007	4,768	1,785	2,931	895	1,481	327	357	2,228	3,615	781	1,153
Job leavers.....	922	795	344	284	401	377	176	134	760	668	161	126
Reentrants.....	2,276	2,502	583	673	1,150	1,298	543	532	1,713	1,931	563	572
New entrants.....	925	1,149	116	118	147	175	663	857	665	775	260	378
<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.....	52.5	61.3	72.3	80.6	44.5	52.1	24.9	24.2	52.9	62.1	51.0	58.0
On layoff.....	17.8	19.7	25.0	27.5	15.3	15.6	7.1	6.4	19.5	21.6	12.1	12.9
Other job losers.....	34.7	41.6	47.3	53.1	29.2	37.5	17.8	17.8	33.4	40.5	38.9	45.1
Job leavers.....	10.6	6.9	9.1	5.1	13.1	9.6	9.6	6.7	11.4	7.5	8.0	4.9
Reentrants.....	26.2	21.8	15.5	12.2	37.5	32.9	29.5	26.5	25.7	21.6	28.1	22.4
New entrants.....	10.7	10.0	3.1	2.1	4.8	4.4	36.0	42.7	10.0	8.7	12.9	14.6
<b>UNEMPLOYMENT RATE</b>												
Total unemployment rate.....	7.9	10.4	6.6	9.5	7.0	8.9	21.8	24.8	7.0	9.2	14.6	17.9
Job loser rate <sup>1</sup> .....	4.2	6.3	4.8	7.6	3.2	4.7	5.5	6.0	3.7	5.7	7.5	10.8
Job leaver rate <sup>1</sup> .....	.8	.7	.6	.5	.9	.8	2.1	1.7	.8	.7	1.2	.9
Reentrant rate <sup>1</sup> .....	2.1	2.3	1.0	1.2	2.6	2.9	6.4	6.6	1.8	2.0	4.1	4.0
New entrant rate <sup>1</sup> .....	.8	1.0	.2	.2	.3	.4	7.8	10.6	.7	.8	1.9	2.6

<sup>1</sup> Unemployment rates are calculated as a percent of the civilian labor force.

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

(Percent distribution)

Reason, sex, and age	November 1982						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
<b>Total, 16 years and over.....</b>	<b>11,476</b>	<b>100.0</b>	<b>34.1</b>	<b>30.8</b>	<b>35.2</b>	<b>16.7</b>	<b>18.5</b>
Job losers.....	7,029	100.0	30.8	29.3	39.9	17.5	22.4
On layoff.....	2,261	100.0	44.3	26.8	28.9	13.4	15.5
Other job losers.....	4,768	100.0	24.4	30.5	45.0	19.4	25.6
Job leavers.....	795	100.0	32.3	36.2	31.6	17.6	13.9
Reentrants.....	2,502	100.0	41.9	33.8	24.3	12.8	11.5
New entrants.....	1,149	100.0	38.1	29.2	32.8	19.6	13.1
<b>Males, 20 years and over.....</b>	<b>5,523</b>	<b>100.0</b>	<b>29.4</b>	<b>30.1</b>	<b>40.5</b>	<b>17.1</b>	<b>23.3</b>
Job losers.....	4,449	100.0	29.4	29.3	41.3	17.2	24.1
On layoff.....	1,518	100.0	43.3	26.5	30.2	14.5	15.8
Other job losers.....	2,931	100.0	22.2	30.8	47.0	18.7	28.3
Job leavers.....	284	100.0	29.7	29.9	40.4	22.7	17.7
Reentrants.....	673	100.0	29.9	36.2	33.9	14.8	19.1
New entrants.....	118	100.0	28.0	24.4	47.6	13.3	34.3
<b>Females, 20 years and over.....</b>	<b>3,946</b>	<b>100.0</b>	<b>35.9</b>	<b>30.9</b>	<b>33.2</b>	<b>16.1</b>	<b>17.1</b>
Job losers.....	2,097	100.0	30.4	28.8	40.8	19.3	21.6
On layoff.....	616	100.0	43.4	27.0	29.6	12.4	17.1
Other job losers.....	1,481	100.0	24.9	29.5	45.5	22.1	23.4
Job leavers.....	377	100.0	31.1	37.0	31.8	16.7	15.1
Reentrants.....	1,298	100.0	46.2	32.3	21.6	10.9	10.7
New entrants.....	175	100.0	35.5	33.3	31.2	15.1	16.1
<b>Both sexes, 16 to 19 years.....</b>	<b>2,007</b>	<b>100.0</b>	<b>43.2</b>	<b>32.3</b>	<b>24.5</b>	<b>16.6</b>	<b>7.9</b>
Job losers.....	484	100.0	45.9	31.9	22.3	11.5	10.7
On layoff.....	127	100.0	60.3	29.3	10.4	5.5	4.9
Other job losers.....	357	100.0	40.7	32.8	26.5	13.7	12.8
Job leavers.....	134	100.0	40.8	47.1	12.1	9.6	2.5
Reentrants.....	532	100.0	46.7	34.3	19.0	15.1	3.9
New entrants.....	857	100.0	40.0	29.0	31.1	21.4	9.6

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

Sex, age, and race	November 1982								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	11,476	9,097	23.2	5.8	79.7	34.8	16.5	4.3	1.64
16 to 19 years .....	2,007	1,863	13.5	3.2	84.0	25.5	13.5	3.1	1.43
20 to 24 years .....	2,499	2,041	25.0	5.2	81.4	35.2	15.3	3.6	1.66
25 to 34 years .....	3,227	2,438	27.3	6.2	77.9	38.0	16.2	4.3	1.70
35 to 44 years .....	1,845	1,374	27.7	7.6	77.9	37.9	20.1	4.0	1.75
45 to 54 years .....	1,097	779	25.5	8.1	76.9	38.6	18.0	6.0	1.73
55 to 64 years .....	670	492	19.3	7.7	74.8	38.4	20.5	10.4	1.71
65 years and over .....	131	111	9.9	2.7	76.6	28.8	18.9	4.5	1.41
<b>Males, 16 years and over</b> .....	6,660	4,988	25.7	5.9	81.0	32.7	18.7	5.7	1.70
16 to 19 years .....	1,136	1,026	14.9	3.8	84.3	24.2	16.8	2.8	1.47
20 to 24 years .....	1,471	1,165	26.8	5.5	82.5	33.7	17.6	4.3	1.79
25 to 34 years .....	1,890	1,310	31.2	5.2	80.8	35.2	17.9	6.1	1.76
35 to 44 years .....	1,061	728	30.6	9.1	79.5	35.6	22.5	5.8	1.83
45 to 54 years .....	617	416	29.6	7.9	76.0	36.1	20.7	9.6	1.80
55 to 64 years .....	397	274	20.4	8.8	71.9	38.7	21.5	15.0	1.76
65 years and over .....	87	70	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Females, 16 years and over</b> .....	4,816	4,109	20.2	5.5	78.1	37.3	13.7	2.7	1.57
16 to 19 years .....	870	838	11.8	2.4	83.5	27.1	9.5	3.5	1.39
20 to 24 years .....	1,028	876	22.6	4.7	79.9	37.0	12.2	2.6	1.59
25 to 34 years .....	1,337	1,128	22.7	7.3	74.6	41.2	14.2	2.2	1.62
35 to 44 years .....	784	647	24.3	5.9	76.0	40.6	17.5	2.2	1.66
45 to 54 years .....	479	363	20.7	8.3	78.0	41.6	14.9	1.9	1.65
55 to 64 years .....	273	218	17.9	6.4	78.4	38.5	19.3	4.6	1.65
65 years and over .....	44	41	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>White, 16 years and over</b> .....	8,921	6,894	22.2	5.8	79.5	36.6	15.9	4.7	1.65
Males .....	5,231	3,786	24.7	6.0	80.8	34.2	18.0	6.4	1.70
Females .....	3,690	3,108	19.1	5.6	78.0	39.5	13.3	2.5	1.59
<b>Black and other, 16 years and over</b> .....	2,555	2,203	26.4	5.6	80.2	29.0	18.2	3.4	1.63
Males .....	1,428	1,202	28.8	5.8	81.6	28.0	21.0	3.5	1.69
Females .....	1,127	1,001	23.5	5.4	78.5	30.2	15.0	3.2	1.56

<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 sex, reason for unemployment, and jobsearch methods used

Sex and reason	November 1982								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	11,476	9,097	23.2	5.8	79.7	34.8	16.5	4.3	1.64
Job losers .....	7,029	4,734	29.8	6.6	81.0	36.9	18.0	4.7	1.77
Job leavers .....	795	802	21.4	6.9	79.6	39.2	13.7	3.5	1.64
Reentrants .....	2,502	2,420	14.9	4.7	77.6	33.2	14.4	4.5	1.49
New entrants .....	1,149	1,141	14.5	3.8	78.6	26.2	16.6	3.4	1.43
<b>Males, 16 years and over</b> .....	6,660	4,988	25.7	5.9	81.0	32.7	18.7	5.7	1.70
Job losers .....	4,789	3,149	30.1	6.5	80.4	34.9	19.5	6.2	1.78
Job leavers .....	351	363	22.0	5.5	85.1	38.8	14.6	5.0	1.71
Reentrants .....	955	911	18.0	5.3	81.4	27.9	16.5	6.0	1.55
New entrants .....	565	565	16.1	4.1	80.7	24.4	21.1	3.0	1.49
<b>Females, 16 years and over</b> .....	4,816	4,109	20.2	5.5	78.1	37.3	13.7	2.7	1.57
Job losers .....	2,241	1,585	29.3	6.8	82.2	40.9	15.0	1.6	1.76
Job leavers .....	444	440	20.9	8.0	74.8	39.3	13.2	2.3	1.59
Reentrants .....	1,547	1,508	13.1	4.2	75.3	36.4	13.2	3.5	1.46
New entrants .....	585	575	13.0	3.5	76.9	27.8	12.0	3.8	1.37

NOTE: See note, table A-15.

# HOUSEHOLD DATA

## A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982
Total, 16 years and over .....	8,676	11,476	100.0	100.0	6,947	9,528	100.0	100.0
Less than 5 weeks .....	3,757	3,908	43.3	34.1	2,784	2,957	40.1	31.0
5 to 14 weeks .....	2,816	3,530	32.5	30.8	2,269	2,873	32.7	30.2
5 to 10 weeks .....	2,060	2,468	23.7	21.5	1,686	1,974	24.3	20.7
11 to 14 weeks .....	756	1,062	8.7	9.3	583	899	8.4	9.4
15 weeks and over .....	2,104	4,038	24.2	35.2	1,894	3,699	27.3	38.8
15 to 26 weeks .....	1,066	1,914	12.3	16.7	939	1,687	13.5	17.7
27 weeks and over .....	1,037	2,124	12.0	18.5	954	2,012	13.7	21.1
27 to 51 weeks .....	497	1,060	5.7	9.2	441	1,007	6.3	10.6
52 weeks and over .....	541	1,063	6.2	9.3	513	1,006	7.4	10.6
Average (mean) duration, in weeks .....	12.9	16.9	--	--	14.1	18.4	--	--
Median duration, in weeks .....	6.5	9.5	--	--	7.1	10.5	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982
	November 1982										
Total, 16 years and over .....	11,476	3,908	3,530	1,914	2,124	16.9	9.5	43.3	34.1	24.2	35.2
16 to 21 years .....	3,046	1,260	981	505	300	12.8	7.6	48.6	41.4	17.6	26.4
16 to 19 years .....	2,007	867	648	333	159	11.9	7.3	50.3	43.2	17.5	24.5
20 to 24 years .....	2,499	895	792	413	399	15.8	8.8	42.8	35.8	22.1	32.5
25 to 34 years .....	3,227	1,004	1,041	542	640	17.4	9.9	41.4	31.1	24.7	36.6
35 to 44 years .....	1,845	565	564	285	431	19.2	11.0	41.0	30.6	30.2	38.8
45 to 54 years .....	1,097	314	306	174	303	20.9	11.0	39.8	28.6	30.8	43.5
55 to 64 years .....	670	204	158	143	166	20.9	12.9	37.3	30.4	31.8	46.1
65 years and over .....	131	59	21	25	26	15.6	7.4	50.8	44.7	22.6	38.9
<b>Males, 16 years and over .....</b>	<b>6,660</b>	<b>2,402</b>	<b>2,037</b>	<b>1,119</b>	<b>1,402</b>	<b>18.4</b>	<b>10.2</b>	<b>40.7</b>	<b>31.6</b>	<b>25.0</b>	<b>37.9</b>
16 to 21 years .....	1,739	701	566	268	204	13.7	7.8	46.9	40.3	16.6	27.2
16 to 19 years .....	1,136	477	375	172	113	12.8	7.4	50.0	42.0	15.9	25.0
20 to 24 years .....	1,471	475	474	249	273	17.5	9.9	36.6	32.3	24.4	35.5
25 to 34 years .....	1,890	523	601	314	451	19.5	10.8	38.7	27.7	25.8	40.5
35 to 44 years .....	1,061	284	336	160	261	20.8	12.3	35.6	26.8	35.2	41.6
45 to 54 years .....	617	181	154	94	189	22.2	12.4	41.2	29.3	32.7	45.8
55 to 64 years .....	357	123	87	87	99	21.6	13.0	41.8	31.1	22.7	47.0
65 years and over .....	87	38	10	23	16	16.9	8.1	(1)	43.9	(1)	44.2
<b>Females, 16 years and over .....</b>	<b>4,816</b>	<b>1,806</b>	<b>1,493</b>	<b>796</b>	<b>722</b>	<b>14.8</b>	<b>8.5</b>	<b>46.5</b>	<b>37.5</b>	<b>23.3</b>	<b>31.5</b>
16 to 21 years .....	1,307	559	415	237	96	11.5	7.4	50.7	42.8	18.8	25.5
16 to 19 years .....	870	391	273	161	46	10.7	7.1	50.6	44.9	19.4	23.7
20 to 24 years .....	1,028	420	319	164	126	13.4	7.2	51.8	40.8	18.9	28.2
25 to 34 years .....	1,337	481	439	228	189	14.4	8.6	44.8	35.9	23.4	31.2
35 to 44 years .....	784	281	228	105	170	17.2	9.4	46.7	35.9	25.0	35.0
45 to 54 years .....	479	133	152	80	115	19.3	10.4	38.2	27.7	28.6	40.6
55 to 64 years .....	273	80	71	56	66	19.9	12.8	31.9	29.4	42.5	44.7
65 years and over .....	44	21	11	2	10	13.1	7.1	(1)	(1)	(1)	(1)
<b>White, 16 years and over .....</b>	<b>8,921</b>	<b>3,055</b>	<b>2,823</b>	<b>1,475</b>	<b>1,568</b>	<b>16.2</b>	<b>9.3</b>	<b>44.4</b>	<b>34.2</b>	<b>22.8</b>	<b>34.1</b>
Males .....	5,231	1,649	1,621	898	1,063	18.0	10.1	42.1	31.5	23.1	37.5
Females .....	3,650	1,406	1,202	576	505	13.7	8.2	47.4	38.1	22.3	29.3
<b>Black and other, 16 years and over .....</b>	<b>2,555</b>	<b>853</b>	<b>706</b>	<b>440</b>	<b>556</b>	<b>19.3</b>	<b>10.2</b>	<b>39.5</b>	<b>33.4</b>	<b>29.2</b>	<b>39.0</b>
Males .....	1,428	453	416	220	340	20.1	10.6	35.7	31.7	31.7	39.2
Females .....	1,127	400	291	219	216	18.1	9.7	43.8	35.5	26.4	38.7
<b>Males, 16 years and over:</b>											
Married, spouse present .....	2,866	879	821	485	684	19.5	10.8	40.4	30.6	26.2	40.7
Widowed, divorced, or separated .....	791	220	249	133	189	20.9	11.8	36.4	27.8	32.4	40.8
Single (never married) .....	3,000	1,003	967	500	530	16.7	9.4	41.8	33.4	22.5	34.3
<b>Females, 16 years and over:</b>											
Married, spouse present .....	2,199	811	721	343	324	14.3	8.4	45.5	36.9	22.6	30.3
Widowed, divorced, or separated .....	921	319	270	134	198	17.2	9.4	42.6	34.6	28.1	36.1
Single (never married) .....	1,697	676	502	319	200	14.0	8.2	50.0	39.9	21.3	30.6

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

## A-19. Unemployed persons by occupation, industry, and duration of unemployment

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			Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982
	November 1982										
<b>OCCUPATION</b>											
White-collar workers .....	3,060	994	990	553	522	16.1	9.8	40.3	32.5	27.4	35.1
Professional and managerial .....	1,119	323	385	206	207	17.3	10.5	40.2	28.9	28.2	36.8
Sales workers .....	442	168	137	71	65	14.9	9.1	44.1	38.0	28.8	31.0
Clerical workers .....	1,499	504	468	276	250	15.7	9.5	39.3	33.6	26.4	35.1
Blue-collar workers .....	5,301	1,685	1,566	868	1,181	18.7	10.2	42.0	31.8	24.2	38.7
Craft and kindred workers .....	1,501	476	462	248	316	18.2	10.6	43.6	31.7	19.7	37.6
Operatives, except transport .....	2,257	731	623	366	537	18.8	10.1	42.4	32.4	25.3	40.0
Transport equipment operatives .....	466	124	144	77	122	21.8	11.3	42.0	26.5	26.8	42.7
Nonfarm laborers .....	1,077	355	338	177	207	17.7	9.8	39.7	33.0	26.4	35.6
Service workers .....	1,705	633	578	238	256	14.4	8.3	48.3	37.1	21.4	29.0
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	328	184	76	46	21	9.6	4.4	42.2	56.3	14.6	20.6
Construction .....	1,061	383	341	157	180	16.4	8.6	46.1	36.1	20.6	31.8
Manufacturing .....	3,153	949	888	517	799	19.6	10.9	41.5	30.1	26.1	41.7
Durable goods .....	2,172	600	591	391	589	20.7	12.8	39.4	27.6	27.2	45.2
Nondurable goods .....	982	348	297	126	210	17.3	8.5	44.9	35.5	24.5	34.2
Transportation and public utilities .....	516	165	140	101	110	19.7	11.3	40.8	31.9	30.4	41.0
Wholesale and retail trade .....	2,209	804	723	370	311	14.3	8.9	45.3	36.4	21.2	30.9
Finance and service industries .....	2,408	805	799	383	422	16.5	9.4	41.2	33.4	25.8	33.4
Public administration .....	262	76	89	42	55	19.4	10.2	35.9	29.1	31.9	36.9
No previous work experience .....	1,155	441	337	226	151	16.1	8.6	48.0	38.2	23.7	32.6

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

## A-20. Employed persons by industry, age, and sex

[In thousands]

Industry and age	Total		Males		Females	
	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982
<b>All industries</b> .....	100,502	99,379	56,902	55,707	43,601	43,672
16 to 19 years .....	6,614	6,089	3,431	3,037	3,183	3,052
16 to 17 years .....	2,571	2,251	1,340	1,122	1,231	1,128
18 to 19 years .....	4,043	3,838	2,091	1,915	1,952	1,923
20 to 24 years .....	13,997	13,510	7,313	7,015	6,684	6,495
25 to 54 years .....	65,461	65,379	37,524	37,111	27,937	28,269
25 to 34 years .....	28,631	28,353	16,313	15,965	12,318	12,388
35 to 44 years .....	20,599	21,177	11,752	11,980	8,847	9,197
45 to 54 years .....	16,231	15,848	9,458	9,166	6,773	6,683
55 to 64 years .....	11,476	11,481	6,841	6,777	4,636	4,704
55 to 59 years .....	7,109	6,944	4,204	4,084	2,905	2,859
60 to 64 years .....	4,367	4,537	2,636	2,693	1,731	1,845
65 years and over .....	2,954	2,920	1,794	1,767	1,160	1,153
<b>Nonagricultural industries</b> .....	97,214	96,019	54,280	52,968	42,934	43,051
16 to 19 years .....	6,342	5,741	3,208	2,758	3,134	2,983
16 to 17 years .....	2,446	2,100	1,235	996	1,212	1,104
18 to 19 years .....	3,896	3,641	1,973	1,762	1,922	1,879
20 to 24 years .....	13,584	13,077	6,961	6,659	6,623	6,418
25 to 54 years .....	63,702	63,579	36,184	35,679	27,518	27,900
25 to 34 years .....	27,945	27,634	15,784	15,374	12,161	12,260
35 to 44 years .....	20,051	20,601	11,346	11,534	8,706	9,067
45 to 54 years .....	15,706	15,344	9,055	8,771	6,650	6,573
55 to 64 years .....	10,929	10,996	6,402	6,368	4,527	4,628
55 to 59 years .....	6,818	6,681	3,978	3,871	2,840	2,810
60 to 64 years .....	4,111	4,315	2,424	2,498	1,687	1,817
65 years and over .....	2,657	2,626	1,524	1,504	1,133	1,123
<b>Agriculture</b> .....	3,288	3,360	2,622	2,739	666	620
16 to 19 years .....	272	348	223	280	49	68
16 to 17 years .....	124	150	105	127	20	24
18 to 19 years .....	148	197	118	153	30	44
20 to 24 years .....	414	433	352	356	62	77
25 to 54 years .....	1,759	1,801	1,338	1,431	421	369
25 to 34 years .....	686	720	530	591	156	129
35 to 44 years .....	548	576	406	446	142	130
45 to 54 years .....	525	505	402	394	122	110
55 to 64 years .....	547	485	439	409	108	76
55 to 59 years .....	291	262	227	214	64	49
60 to 64 years .....	256	223	212	195	44	27
65 years and over .....	296	294	270	264	26	30

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

(In thousands)

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982
<b>TOTAL</b> .....	100,502	99,379	53,471	52,670	40,418	40,620	3,431	3,037	3,183	3,052
<b>White-collar workers</b> .....	53,415	54,105	24,044	24,325	27,144	27,651	571	545	1,656	1,584
Professional and technical .....	16,830	17,298	9,163	9,283	7,535	7,886	66	46	66	83
Health workers .....	3,177	3,306	1,031	1,079	2,128	2,210	5	1	13	17
Teachers, except college .....	3,440	3,470	997	1,009	2,429	2,446	2	--	13	15
Other professional and technical .....	10,213	10,522	7,135	7,195	2,978	3,230	59	45	40	51
Managers and administrators, except farm .....	11,392	11,588	8,179	8,294	3,104	3,205	50	48	58	40
Salaried workers .....	9,496	9,734	6,757	6,934	2,634	2,716	46	45	59	40
Self-employed workers in retail trade .....	841	807	554	527	286	278	1	1	--	1
Self-employed workers, except retail trade .....	1,055	1,047	869	834	183	211	3	2	--	--
Sales workers .....	6,507	6,706	3,307	3,388	2,609	2,726	214	223	377	369
Retail trade .....	3,309	3,406	980	1,105	1,822	1,831	163	154	344	316
Other industries .....	3,198	3,300	2,326	2,283	787	894	51	70	33	53
Clerical workers .....	18,686	18,514	3,395	3,360	13,896	13,835	242	227	1,154	1,092
Stenographers, typists, and secretaries .....	4,915	4,946	59	80	4,609	4,593	9	6	238	268
Other clerical workers .....	13,771	13,568	3,336	3,280	9,287	9,242	233	221	916	924
<b>Blue-collar workers</b> .....	30,754	28,758	23,107	21,665	5,642	5,139	1,740	1,467	266	287
Craft and kindred workers .....	12,386	12,114	11,189	10,854	853	912	322	323	23	25
Carpenters .....	1,042	1,097	992	1,011	16	38	31	48	2	--
Construction craft workers, except carpenters .....	2,515	2,524	2,367	2,397	61	47	86	73	--	7
Mechanics and repairers .....	3,288	3,234	3,118	3,043	69	73	99	118	1	--
Metal craft workers .....	1,254	1,076	1,174	1,013	44	40	33	20	1	3
Blue-collar worker supervisors, not elsewhere classified .....	1,863	1,651	1,624	1,423	228	225	11	3	--	--
All other .....	2,425	2,533	1,913	1,966	434	490	60	62	18	15
Operatives, except transport .....	10,368	8,927	5,687	4,941	4,009	3,508	520	325	152	152
Durable goods manufacturing .....	4,472	3,649	2,795	2,238	1,491	1,287	148	80	40	44
Nondurable goods manufacturing .....	3,217	2,972	1,242	1,215	1,813	1,639	104	53	59	65
Other industries .....	2,678	2,307	1,651	1,488	706	582	268	192	54	44
Transport equipment operatives .....	3,513	3,345	3,060	2,938	316	285	130	102	7	20
Drivers, motor vehicles .....	3,019	2,911	2,600	2,545	296	259	117	87	6	20
All other .....	494	434	460	393	20	26	13	15	1	--
Nonfarm laborers .....	4,486	4,372	3,171	3,132	463	433	768	717	94	90
Construction .....	735	738	629	609	9	24	95	101	2	4
Manufacturing .....	993	794	762	607	140	136	85	43	6	8
Other industries .....	2,757	2,840	1,780	1,915	314	274	588	573	76	78
<b>Service workers</b> .....	13,632	13,840	4,309	4,476	7,174	7,423	925	806	1,224	1,135
Private household workers .....	1,107	1,125	13	29	864	860	10	14	219	223
Service workers, except private household .....	12,525	12,714	4,295	4,447	6,310	6,563	915	792	1,005	912
Food service workers .....	4,806	4,765	1,021	1,121	2,420	2,472	623	550	742	626
Protective service workers .....	1,482	1,621	1,308	1,406	151	183	22	23	1	9
All other .....	6,237	6,324	1,966	1,920	3,739	3,908	270	219	262	277
<b>Farm workers</b> .....	2,701	2,676	2,012	2,004	457	407	195	220	37	46
Farmers and farm managers .....	1,498	1,454	1,325	1,270	154	171	15	13	3	--
Farm laborers and supervisors .....	1,204	1,222	687	734	304	236	180	206	34	46
Paid workers .....	926	1,068	654	710	116	106	134	154	21	38
Unpaid family workers .....	278	214	33	24	187	130	45	52	13	8



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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982
<b>TOTAL</b>						
Total, 16 years and over (thousands)	100,502	99,379	56,902	55,707	43,601	43,672
Percent	100.0	100.0	100.0	100.0	100.0	100.0
<b>White-collar workers</b>						
Professional and technical	16.7	17.4	16.2	16.7	17.4	18.2
Managers and administrators, except farm	11.3	11.7	14.5	15.0	7.3	7.4
Sales workers	6.5	6.7	6.2	6.5	6.8	7.1
Clerical workers	18.6	18.6	6.4	6.4	34.5	34.2
<b>Blue-collar workers</b>						
Craft and kindred workers	12.3	12.2	20.2	20.1	2.0	2.1
Operatives, except transport	10.3	9.0	10.9	9.5	9.5	8.4
Transport equipment operatives	3.5	3.4	5.6	5.5	.7	.7
Nonfarm laborers	4.5	4.4	6.9	6.9	1.3	1.2
<b>Service workers</b>						
Private household workers	1.1	1.1	(1)	.1	2.5	2.5
Other service workers	12.5	12.8	9.2	9.4	16.8	17.1
<b>Farm workers</b>						
Farmers and farm managers	1.5	1.5	2.4	2.3	.4	.4
Farm laborers and supervisors	1.2	1.2	1.5	1.7	.8	.6
<b>White</b>						
Total, 16 years and over (thousands)	88,800	87,672	50,904	49,684	37,895	37,988
Percent	100.0	100.0	100.0	100.0	100.0	100.0
<b>White-collar workers</b>						
Professional and technical	17.1	17.8	16.6	17.2	17.7	18.5
Managers and administrators, except farm	12.1	12.5	15.4	15.9	7.8	8.0
Sales workers	6.9	7.2	6.6	6.9	7.4	7.6
Clerical workers	18.6	18.6	6.1	6.2	35.3	34.8
<b>Blue-collar workers</b>						
Craft and kindred workers	12.8	12.6	20.8	20.6	2.1	2.2
Operatives, except transport	9.7	8.5	10.4	9.1	8.7	7.7
Transport equipment operatives	3.4	3.2	5.4	5.2	.7	.7
Nonfarm laborers	4.2	4.1	6.4	6.3	1.3	1.2
<b>Service workers</b>						
Private household workers	.9	.9	(1)	.1	2.0	2.1
Other service workers	11.5	11.8	8.3	8.4	15.8	16.1
<b>Farm workers</b>						
Farmers and farm managers	1.7	1.6	2.6	2.5	.4	.4
Farm laborers and supervisors	1.2	1.2	1.5	1.6	.8	.7
<b>Black and other</b>						
Total, 16 years and over (thousands)	11,703	11,707	5,998	6,024	5,705	5,684
Percent	100.0	100.0	100.0	100.0	100.0	100.0
<b>White-collar workers</b>						
Professional and technical	14.3	14.8	13.0	13.1	15.7	16.6
Managers and administrators, except farm	5.4	5.5	6.8	7.0	3.9	3.9
Sales workers	3.2	3.2	3.1	3.0	3.3	3.4
Clerical workers	18.9	18.8	8.9	8.2	29.4	30.1
<b>Blue-collar workers</b>						
Craft and kindred workers	8.7	8.9	15.4	15.9	1.6	1.5
Operatives, except transport	14.9	12.8	15.0	12.8	14.9	12.9
Transport equipment operatives	4.3	4.4	7.7	7.7	.7	.8
Nonfarm laborers	6.3	6.7	11.3	11.8	1.1	1.3
<b>Service workers</b>						
Private household workers	2.8	2.7	(1)	.2	5.7	5.3
Other service workers	19.6	20.6	16.5	17.6	22.9	23.6
<b>Farm workers</b>						
Farmers and farm managers	1.5	1.7	2.4	2.6	.6	.6
Farm laborers and supervisors	.2	.2	.4	.3	.1	.1
Farm laborers and supervisors	1.3	1.5	2.0	2.3	.5	.5

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

# HOUSEHOLD DATA

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

[In thousands]

Age and sex	November 1982								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	88,327	1,254	15,668	71,404	7,338	354	1,516	1,615	229
16 to 19 years	5,626	289	334	5,004	99	15	259	24	64
16 to 17 years	2,044	193	91	1,760	49	8	96	14	40
18 to 19 years	3,583	96	243	3,244	51	8	163	10	25
20 to 24 years	12,726	128	1,348	11,250	333	19	314	99	20
25 to 34 years	25,838	189	4,482	21,167	1,733	63	383	312	24
35 to 44 years	18,636	157	3,986	14,493	1,856	110	232	302	42
45 to 54 years	13,761	154	3,122	10,484	1,506	78	162	302	41
55 to 64 years	9,689	209	2,060	7,420	1,258	49	112	347	26
55 to 59 years	5,950	95	1,324	4,531	697	35	76	168	19
60 to 64 years	3,739	114	736	2,890	561	15	37	179	7
65 years and over	2,051	129	337	1,586	554	21	53	229	12
<b>Males, 16 years and over</b>	<b>47,973</b>	<b>185</b>	<b>7,598</b>	<b>40,191</b>	<b>4,959</b>	<b>36</b>	<b>1,241</b>	<b>1,419</b>	<b>80</b>
16 to 19 years	2,682	65	127	2,489	65	11	199	24	56
16 to 17 years	960	43	32	866	31	5	74	15	37
18 to 19 years	1,721	23	95	1,604	34	6	125	10	19
20 to 24 years	6,452	28	595	5,828	203	4	251	92	13
25 to 34 years	14,249	30	2,102	12,118	1,120	5	315	271	5
35 to 44 years	10,312	10	1,940	8,362	1,219	3	192	255	--
45 to 54 years	7,706	14	1,612	6,080	1,060	5	135	258	1
55 to 64 years	5,462	12	1,037	4,413	901	5	99	307	3
55 to 59 years	3,348	5	665	2,678	518	5	65	145	4
60 to 64 years	2,114	8	371	1,735	382	1	34	162	--
65 years and over	1,111	26	184	901	392	1	49	212	3
<b>Females, 16 years and over</b>	<b>40,353</b>	<b>1,070</b>	<b>8,071</b>	<b>31,213</b>	<b>2,379</b>	<b>319</b>	<b>275</b>	<b>197</b>	<b>149</b>
16 to 19 years	2,945	223	207	2,515	34	4	60	--	8
16 to 17 years	1,084	150	59	874	18	3	22	--	2
18 to 19 years	1,861	73	148	1,640	16	2	38	--	6
20 to 24 years	6,274	101	752	5,421	130	14	62	8	7
25 to 34 years	11,589	159	2,380	9,049	613	58	68	41	19
35 to 44 years	8,324	147	2,045	6,131	637	106	40	47	43
45 to 54 years	6,055	141	1,510	4,404	446	72	27	44	40
55 to 64 years	4,226	196	1,023	3,007	357	44	13	40	23
55 to 59 years	2,602	91	659	1,853	179	30	11	23	15
60 to 64 years	1,625	106	364	1,154	178	14	2	17	8
65 years and over	941	103	153	685	162	20	4	17	9

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

[In thousands]

Industry	November 1982											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Agriculture	3,360	76	38	8	74	65	28	44	335	--	15	2,676
Mining	912	159	97	9	123	204	260	39	8	--	13	--
Construction	5,841	201	775	42	430	3,230	246	155	738	--	25	--
Manufacturing	19,484	2,666	1,660	500	2,559	3,660	6,621	616	794	--	408	--
Durable goods	11,407	1,839	944	174	1,501	2,295	3,649	292	498	--	216	--
Nondurable goods	8,076	827	716	327	1,057	1,365	2,972	324	296	--	192	--
Transportation and public utilities	6,547	653	726	79	1,446	1,354	156	1,474	456	--	203	--
Wholesale and retail trade	21,145	480	4,158	4,432	3,919	1,475	825	732	1,258	--	3,865	--
Wholesale trade	4,032	162	878	1,026	840	332	173	359	239	--	23	--
Retail trade	17,113	317	3,280	3,406	3,079	1,143	652	373	1,019	--	3,843	--
Finance, insurance, and real estate	6,262	435	1,228	1,367	2,721	168	10	4	58	--	271	--
Services	30,694	11,616	2,273	269	5,434	1,656	738	219	605	1,125	6,758	--
Private households	1,330	3	--	--	8	6	6	4	131	1,125	45	--
Other service industries	29,364	11,613	2,273	268	5,426	1,650	732	215	474	--	6,713	--
Public administration	5,136	1,012	632	--	1,808	301	44	63	122	--	1,155	--

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

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
			Total		Wage and salary workers <sup>1</sup>			
	Nov. 1981				Nov. 1982		Paid absences <sup>2</sup>	
			Nov. 1981	Nov. 1982			Nov. 1981	Nov. 1982
Total, 16 years and over . . . . .	3,652	3,718	3,581	3,569	1,732	1,712	1,410	1,373
Vacation . . . . .	1,247	1,368	1,229	1,329	903	939	224	254
Illness . . . . .	1,389	1,289	1,370	1,250	623	586	646	563
Bad weather . . . . .	76	76	70	42	--	--	--	--
Industrial dispute . . . . .	22	52	22	52	--	--	--	--
All other reasons . . . . .	519	932	891	895	206	187	540	556
Males, 16 years and over . . . . .	2,025	2,023	1,964	1,892	1,060	1,017	635	585
Vacation . . . . .	760	870	743	835	591	648	86	95
Illness . . . . .	760	649	744	617	373	296	323	266
All other reasons <sup>3</sup> . . . . .	506	504	477	439	95	73	226	224
Females, 16 years and over . . . . .	1,627	1,695	1,617	1,677	672	694	777	787
Vacation . . . . .	487	499	486	493	311	291	139	158
Illness . . . . .	629	639	626	633	250	290	323	297
All other reasons <sup>3</sup> . . . . .	511	557	506	551	111	113	315	333

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

<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."

NOTE: Estimates for "all other reasons" by pay status may be biased because of high response variance; data should be used with caution.

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

Hours of work	November 1982					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total, 16 years and over . . . . .	95,661	92,451	3,211	100.0	100.0	100.0
1-34 hours . . . . .	30,833	29,738	1,095	32.2	32.2	34.1
1-4 hours . . . . .	943	881	62	1.0	1.0	1.9
5-14 hours . . . . .	5,035	4,745	290	5.3	5.1	9.0
15-29 hours . . . . .	13,362	12,861	501	14.0	13.9	15.6
30-34 hours . . . . .	11,493	11,251	242	12.0	12.2	7.5
35 hours and over . . . . .	64,828	62,712	2,116	67.8	67.8	65.9
35-39 hours . . . . .	6,226	6,094	132	6.5	6.6	4.1
40 hours . . . . .	36,419	35,870	549	38.1	38.8	17.1
41 hours and over . . . . .	22,183	20,748	1,435	23.2	22.4	44.7
41 to 48 hours . . . . .	8,002	7,764	238	8.4	8.4	7.4
49 to 59 hours . . . . .	8,089	7,699	390	8.5	8.3	12.1
60 hours and over . . . . .	6,092	5,285	807	6.4	5.7	25.1
Average hours, total at work . . . . .	37.3	37.1	42.5	--	--	--
Average hours, workers on full-time schedules . . . . .	42.2	41.9	51.3	--	--	--

**HOUSEHOLD DATA**

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

[Numbers in thousands]

Reason for working less than 35 hours	November 1982					
	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> .....	30,833	12,556	18,278	29,738	12,154	17,585
<b>Economic reasons</b> .....	6,528	2,262	4,266	6,142	2,101	4,041
Slack work .....	3,497	1,957	1,500	3,221	1,840	1,381
Material shortages or repairs to plant and equipment .....	53	53	--	53	53	--
New job started during week .....	122	122	--	117	117	--
Job terminated during week .....	90	50	--	90	90	--
Could find only part-time work .....	2,766	--	2,766	2,660	--	2,660
<b>Other reasons</b> .....	24,308	10,296	14,012	23,596	10,052	13,544
Does not want, or unavailable for, full-time work .....	11,702	--	11,702	11,343	--	11,343
Vacation .....	1,125	1,125	--	1,112	1,112	--
Illness .....	1,440	1,294	146	1,404	1,271	133
Bad weather .....	449	449	--	300	300	--
Industrial dispute .....	8	8	--	8	8	--
Legal or religious holiday .....	6,152	6,152	--	6,145	6,145	--
Full time for this job .....	1,610	--	1,610	1,566	--	1,566
All other reasons .....	1,820	1,266	554	1,720	1,217	503
<b>Average hours:</b>						
Economic reasons .....	21.7	24.7	20.1	21.8	24.8	20.2
Other reasons .....	22.6	28.6	18.3	22.8	28.7	18.4
<b>Worked 30 to 34 hours:</b>						
Economic reasons .....	2,050	1,066	984	1,946	998	948
Other reasons .....	9,443	7,234	2,209	9,305	7,158	2,147

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

[Numbers in thousands]

Industry	November 1982								Average hours, total at work	Average hours, workers on full-time schedules
	Full- or part-time status									
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules						
				Total	40 hours or less	41 to 48 hours	49 hours or more			
<b>Total, 16 years and over</b> <sup>1</sup> .....	92,451	6,442	13,544	72,765	52,017	7,764	12,984	37.1	41.9	
<b>Wage and salary workers</b> .....	85,210	5,416	12,156	67,638	49,542	7,259	10,837	37.0	41.5	
Construction .....	4,491	445	212	3,834	2,953	339	542	37.3	40.3	
Manufacturing .....	18,425	1,052	593	16,780	12,561	2,054	2,165	39.9	41.5	
Durable goods .....	10,776	530	233	10,013	7,608	1,148	1,257	40.3	41.5	
Nondurable goods .....	7,649	522	360	6,767	4,954	906	907	39.4	41.6	
Transportation and public utilities .....	5,883	232	423	5,228	3,813	532	883	39.2	41.5	
Wholesale and retail trade .....	18,478	1,722	4,444	12,312	7,906	1,709	2,697	35.5	43.3	
Finance, insurance, and real estate .....	5,494	142	468	4,884	3,831	436	617	37.7	39.9	
Service industries .....	26,667	1,690	5,708	19,269	14,282	1,736	3,251	35.1	41.6	
Private households .....	1,222	267	615	340	216	48	76	21.6	44.7	
All other industries .....	25,445	1,423	5,093	18,929	14,066	1,688	3,175	35.7	41.5	
Public administration .....	4,946	98	300	4,548	3,713	341	494	36.7	38.3	
<b>Self-employed workers</b> .....	6,886	712	1,239	4,935	2,336	487	2,112	39.3	47.8	
Unpaid family workers .....	354	14	149	191	137	18	36	33.2	43.2	

<sup>1</sup> Includes mining, not shown separately.

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

[Numbers in thousands]

Sex, age, race, and marital status	November 1982							
	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	92,451	6,142	13,544	72,765	52,017	20,748	37.1	41.9
16 to 21 years	10,149	1,235	4,409	4,505	3,566	939	27.4	40.4
16 to 19 years	5,605	708	3,239	1,658	1,329	329	23.2	40.1
16 to 17 years	2,045	116	1,797	132	106	26	15.6	37.7
18 to 19 years	3,560	592	1,441	1,527	1,224	303	27.6	40.3
20 years and over	86,846	5,434	10,305	71,107	50,687	20,420	38.0	42.0
20 to 24 years	12,672	1,220	2,251	9,201	6,977	2,224	35.3	41.0
25 years and over	74,174	4,213	8,054	61,907	43,711	18,196	38.5	42.1
25 to 44 years	46,591	2,705	4,293	39,593	27,530	12,063	39.1	42.3
45 to 64 years	25,126	1,367	2,578	21,181	15,325	5,856	38.4	41.7
65 years and over	2,456	142	1,183	1,131	856	275	28.2	41.9
<b>Males, 16 years and over</b>	51,076	2,834	3,908	44,334	28,854	15,480	40.1	43.3
16 to 21 years	4,938	590	1,931	2,417	1,792	625	29.2	41.5
16 to 19 years	2,685	335	1,460	890	676	214	24.7	41.2
16 to 17 years	972	56	836	80	69	11	16.7	36.9
18 to 19 years	1,713	278	624	811	607	204	29.3	41.6
20 years and over	48,391	2,499	2,448	43,444	28,177	15,267	41.0	43.3
20 to 24 years	6,487	602	873	5,012	3,498	1,514	37.2	42.2
25 years and over	41,904	1,898	1,574	38,432	24,680	13,752	41.6	43.5
25 to 44 years	26,082	1,220	566	24,296	15,225	9,071	42.3	43.9
45 to 64 years	14,403	617	386	13,400	8,914	4,486	41.5	43.1
65 years and over	1,419	61	622	736	541	195	30.0	41.4
<b>Females, 16 years and over</b>	41,374	3,308	9,636	28,430	23,162	5,268	33.4	39.8
16 to 21 years	5,211	646	2,479	2,086	1,771	315	25.7	39.2
16 to 19 years	2,920	374	1,779	767	652	115	21.8	38.9
16 to 17 years	1,073	60	961	52	37	15	14.6	38.9
18 to 19 years	1,847	314	817	716	616	100	26.0	38.9
20 years and over	38,454	2,935	7,857	27,662	22,508	5,154	34.3	39.9
20 to 24 years	6,185	618	1,378	4,189	3,478	711	33.3	39.7
25 years and over	32,270	2,317	6,480	23,473	19,029	4,444	34.5	39.9
25 to 44 years	20,510	1,484	3,726	15,300	12,308	2,992	35.0	40.0
45 to 64 years	10,724	751	2,193	7,780	6,410	1,370	34.2	39.5
65 years and over	1,037	81	561	395	315	80	25.9	40.3
<b>RACE</b>								
<b>White</b>	81,453	5,085	12,389	63,979	44,732	19,247	37.2	42.1
Males	45,484	2,390	3,541	39,553	25,065	14,488	40.4	43.5
Females	35,969	2,695	8,849	24,425	19,666	4,759	33.2	39.9
<b>Black and other</b>	10,997	1,057	1,154	8,786	7,283	1,503	36.2	40.3
Males	5,592	444	367	4,781	3,789	992	38.0	41.1
Females	5,405	613	787	4,005	3,495	510	34.5	39.4
<b>MARITAL STATUS</b>								
<b>Males, 16 years and over:</b>								
Married, spouse present	34,585	1,352	1,152	32,081	20,360	11,721	41.9	43.5
Widowed, divorced, or separated	4,491	336	200	3,955	2,579	1,376	40.7	43.5
Single (never married)	12,000	1,146	2,557	8,297	5,913	2,384	35.0	42.3
<b>Females, 16 years and over:</b>								
Married, spouse present	22,923	1,712	5,623	15,588	12,908	2,680	33.2	39.5
Widowed, divorced, or separated	8,052	653	1,030	6,369	5,024	1,345	36.3	40.4
Single (never married)	10,399	944	2,983	6,472	5,229	1,243	31.6	40.0

# HOUSEHOLD DATA

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

[Numbers in thousands]

Occupation and sex	November 1932								
	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> .....	93,099	6,226	13,640	73,233	52,320	7,810	13,103	37.1	42.0
<b>White-collar workers</b> .....	52,254	1,954	7,725	42,575	29,389	4,351	8,835	37.9	42.2
Professional and technical .....	16,764	413	2,151	14,200	9,608	1,478	3,114	38.7	42.3
Managers and administrators, except farm .....	11,163	158	554	10,451	5,429	1,304	3,718	44.2	45.8
Sales workers .....	6,406	457	1,586	4,363	2,661	510	1,192	35.6	43.7
Clerical workers .....	17,921	925	3,434	13,562	11,693	1,059	810	34.1	38.7
<b>Blue-collar workers</b> .....	27,569	2,567	1,925	23,077	17,011	2,779	3,287	38.2	41.6
Craft and kindred workers .....	11,652	829	420	10,403	7,454	1,304	1,645	39.4	41.6
Operatives, except transport .....	8,569	884	459	7,226	5,671	851	704	35.2	41.0
Transport equipment operatives .....	3,183	270	302	2,611	1,592	353	666	40.1	44.3
Nonfarm laborers .....	4,165	564	744	2,837	2,293	272	272	33.3	40.5
<b>Service workers</b> .....	13,276	1,765	3,990	7,581	5,920	680	981	31.8	41.7
Private household .....	1,094	216	553	325	207	47	71	22.5	44.0
Other service workers .....	12,182	1,490	3,437	7,255	5,711	634	910	32.7	41.6
<b>Males, 16 years and over</b> .....	51,558	2,910	3,970	44,678	29,069	5,291	10,318	40.1	43.3
<b>White-collar workers</b> .....	24,118	546	1,627	21,945	12,685	2,558	6,702	42.2	44.5
Professional and technical .....	9,100	160	567	8,373	5,189	846	2,338	41.8	43.8
Managers and administrators, except farm .....	8,062	97	216	7,749	3,685	995	3,069	45.6	46.6
Sales workers .....	3,496	135	412	2,949	1,578	386	985	40.9	45.1
Clerical workers .....	3,460	156	432	2,872	2,230	332	310	36.9	40.3
<b>Blue-collar workers</b> .....	22,373	1,937	1,325	19,111	13,716	2,363	3,032	38.8	41.9
Craft and kindred workers .....	10,750	738	299	9,713	6,938	1,221	1,554	39.7	41.7
Operatives, except transport .....	5,075	440	213	4,422	3,281	570	571	39.4	41.8
Transport equipment operatives .....	2,889	232	183	2,474	1,490	330	654	41.2	44.6
Nonfarm laborers .....	3,660	528	631	2,501	2,007	241	253	33.3	40.6
<b>Service workers</b> .....	5,067	427	1,018	3,622	2,668	370	584	36.0	42.8
Private household .....	43	12	17	14	12	2	--	21.8	40.0
Other service workers .....	5,025	415	1,001	3,609	2,657	368	584	36.1	42.9
<b>Females, 16 years and over</b> .....	41,541	3,316	9,670	28,555	23,251	2,519	2,785	33.4	39.8
<b>White-collar workers</b> .....	28,136	1,407	6,098	20,631	16,705	1,793	2,133	34.2	39.6
Professional and technical .....	7,664	254	1,584	5,826	4,418	633	775	34.9	40.1
Managers and administrators, except farm .....	3,101	62	337	2,702	1,744	309	649	40.5	43.4
Sales workers .....	2,910	324	1,175	1,411	1,080	124	207	29.4	40.8
Clerical workers .....	14,462	769	3,002	10,691	9,465	726	500	33.5	38.3
<b>Blue-collar workers</b> .....	5,196	630	600	3,966	3,295	416	255	35.6	39.9
Craft and kindred workers .....	903	91	121	691	517	83	91	36.3	40.9
Operatives, except transport .....	3,494	444	246	2,804	2,391	280	133	36.4	39.6
Transport equipment operatives .....	294	38	119	137	102	23	12	28.8	40.3
Nonfarm laborers .....	505	56	114	335	286	30	19	33.1	39.7
<b>Service workers</b> .....	8,209	1,279	2,972	3,958	3,251	310	397	29.2	40.6
Private household .....	1,051	204	536	311	197	44	70	22.6	44.2
Other service workers .....	7,157	1,075	2,436	3,646	3,054	266	326	30.2	40.3

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

[Numbers in thousands]

Employment status	November 1982								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population .....	7,144	3,638	3,507	5,884	3,017	2,867	1,261	621	640
Civilian labor force .....	1,018	479	540	955	456	499	63	23	41
Employed .....	867	404	463	831	390	441	36	13	23
Agriculture .....	69	55	14	69	54	14	--	--	--
Nonagricultural industries .....	798	349	449	763	336	427	36	13	23
Unemployed .....	151	75	76	124	66	58	27	9	18
Unemployment rate .....	14.8	15.7	14.1	13.0	14.5	11.6	(1)	(1)	(1)
Not in labor force .....	6,126	3,159	2,967	4,928	2,560	2,368	1,197	598	599
Keeping house .....	28	7	21	20	5	15	9	2	7
Going to school .....	6,018	3,107	2,912	4,841	2,517	2,324	1,177	590	587
Unable to work .....	2	1	1	2	1	1	--	--	--
All other reasons .....	77	44	33	65	37	28	12	7	5

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

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

Class of worker and occupation	November 1982					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
<b>CLASS OF WORKER</b>						
<b>Total</b> .....	867	404	463	100.0	100.0	100.0
Nonagricultural industries .....	798	349	449	91.9	86.4	96.8
Wage and salary workers .....	704	286	418	81.1	70.8	90.1
Private household workers .....	338	67	271	38.9	16.6	58.4
Government workers .....	16	4	12	1.8	1.0	2.6
Other wage and salary workers .....	350	215	135	40.3	53.2	29.1
Self-employed workers .....	94	63	31	10.8	15.6	6.7
Unpaid family workers .....	1	--	--	.1	--	--
Agriculture .....	69	55	14	7.9	13.6	3.0
Wage and salary workers .....	42	34	8	4.8	8.4	1.7
Self-employed workers .....	6	4	2	.7	1.0	.4
Unpaid family workers .....	21	17	5	2.4	4.2	1.1
<b>OCCUPATION</b>						
<b>Total</b> .....	867	404	463	100.0	100.0	100.0
White-collar workers .....	248	163	85	28.6	40.1	18.4
Professional and technical .....	11	5	6	1.3	1.2	1.3
Managers and administrators, except farm .....	6	6	--	.7	1.5	--
Sales workers .....	186	134	52	21.4	33.0	11.2
Clerical workers .....	45	18	27	5.2	4.4	5.8
Blue-collar workers .....	112	98	14	12.9	24.1	3.0
Craft and kindred workers .....	5	2	3	.6	.5	.6
Operatives, except transport .....	10	4	6	1.2	1.0	1.3
Transport equipment operatives .....	2	2	1	.2	.5	.2
Nonfarm laborers .....	95	91	4	10.9	22.4	.9
Service workers .....	449	95	353	51.7	23.4	76.2
Private household workers .....	300	22	278	34.6	5.4	60.0
Other service workers .....	149	74	75	17.2	18.2	16.2
Farm workers .....	59	48	11	6.8	11.8	2.4
Farmers and farm managers .....	3	1	2	.3	.2	.4
Farm laborers and supervisors .....	56	47	9	6.5	11.6	1.9

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Employment status, sex, and age	1981		1982										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
<b>TOTAL</b>													
Total noninstitutional population <sup>1</sup> .....	173,155	173,330	173,495	173,657	173,843	174,020	174,201	174,364	174,544	174,707	174,889	175,069	175,238
Armed Forces <sup>1</sup> .....	2,158	2,164	2,159	2,168	2,175	2,176	2,175	2,173	2,180	2,196	2,198	2,188	2,180
Civilian noninstitutional population <sup>1</sup> .....	170,996	171,166	171,335	171,489	171,667	171,844	172,026	172,190	172,364	172,511	172,690	172,881	173,058
Civilian labor force .....	109,272	109,184	108,879	109,165	109,346	109,648	110,666	110,191	110,522	110,644	110,980	110,644	111,019
Percent of civilian population .....	63.9	63.8	63.5	63.7	63.7	63.8	64.3	64.0	64.1	64.1	64.3	64.0	64.2
Employed .....	100,172	99,613	99,581	99,590	99,492	99,340	100,117	99,764	99,732	99,839	99,720	99,093	99,032
Percent of total population .....	57.9	57.5	57.4	57.3	57.2	57.1	57.5	57.2	57.1	57.1	57.0	56.6	56.5
Agriculture .....	3,372	3,209	3,411	3,373	3,349	3,309	3,488	3,357	3,460	3,435	3,368	3,426	3,470
Nonagricultural industries .....	96,800	96,404	96,170	96,217	96,144	96,032	96,629	96,406	96,272	96,404	96,352	95,667	95,563
Unemployed .....	9,100	9,571	9,298	9,575	9,854	10,307	10,549	10,427	10,790	10,805	11,260	11,551	11,987
Unemployment rate .....	8.3	8.8	8.5	8.8	8.8	9.4	9.5	9.5	9.8	9.8	10.1	10.4	10.8
Not in labor force .....	61,724	61,962	62,456	62,324	62,321	62,197	61,360	61,999	61,842	61,867	61,710	62,237	62,039
<b>Males, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	74,610	74,714	74,810	74,906	75,015	75,121	75,227	75,323	75,429	75,531	75,640	75,749	75,852
Civilian noninstitutional population <sup>1</sup> .....	72,921	73,020	73,120	73,209	73,287	73,392	73,499	73,585	73,685	73,774	73,867	73,984	74,094
Civilian labor force .....	57,459	57,665	57,368	57,448	57,554	57,730	58,164	58,016	58,084	58,026	58,407	58,359	58,475
Percent of civilian population .....	78.8	79.0	78.5	78.5	78.5	78.7	79.1	78.8	78.8	78.7	79.1	78.9	78.9
Employed .....	53,354	53,122	53,047	53,097	53,006	52,588	53,260	52,985	52,996	52,887	52,828	52,626	52,555
Percent of total population .....	71.5	71.1	70.9	70.9	70.9	70.5	70.8	70.3	70.3	70.0	69.8	69.5	69.3
Agriculture .....	2,382	2,311	2,390	2,386	2,377	2,382	2,464	2,424	2,474	2,436	2,447	2,462	2,445
Nonagricultural industries .....	50,972	50,811	50,657	50,711	50,629	50,606	50,796	50,561	50,522	50,451	50,381	50,164	50,110
Unemployed .....	4,105	4,543	4,322	4,351	4,548	4,742	4,904	5,031	5,088	5,139	5,579	5,733	5,920
Unemployment rate .....	7.1	7.9	7.5	7.6	7.9	8.2	8.4	8.7	8.8	8.9	9.6	9.8	10.1
Not in labor force .....	15,462	15,355	15,752	15,761	15,733	15,662	15,335	15,569	15,601	15,748	15,460	15,625	15,619
<b>Females, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	82,193	82,306	82,415	82,523	82,640	82,753	82,868	82,976	83,091	83,201	83,320	83,438	83,551
Civilian noninstitutional population <sup>1</sup> .....	82,038	82,151	82,260	82,367	82,478	82,591	82,707	82,811	82,926	83,035	83,152	83,271	83,385
Civilian labor force .....	42,987	42,888	42,868	43,031	43,243	43,301	43,683	43,904	44,076	44,115	44,025	43,833	44,055
Percent of civilian population .....	52.4	52.2	52.1	52.2	52.4	52.4	52.8	53.0	53.2	53.1	52.9	52.6	52.8
Employed .....	39,878	39,713	39,764	39,744	39,807	39,715	40,075	40,350	40,392	40,490	40,369	40,046	40,044
Percent of total population .....	48.5	48.3	48.2	48.2	48.2	48.0	48.4	48.6	48.6	48.7	48.5	48.0	47.9
Agriculture .....	635	572	649	628	636	601	634	581	600	589	585	572	568
Nonagricultural industries .....	39,243	39,141	39,115	39,116	39,172	39,114	39,441	39,769	39,791	39,901	39,784	39,474	39,476
Unemployed .....	3,109	3,175	3,104	3,286	3,435	3,586	3,608	3,554	3,684	3,626	3,656	3,787	4,010
Unemployment rate .....	7.2	7.4	7.2	7.6	7.9	8.3	8.3	8.1	8.4	8.2	8.3	8.6	9.1
Not in labor force .....	39,051	39,263	39,392	39,336	39,235	39,290	39,024	38,907	38,850	38,920	39,127	39,438	39,330
<b>Both sexes, 16-19 years</b>													
Total noninstitutional population <sup>1</sup> .....	16,351	16,310	16,269	16,228	16,188	16,146	16,106	16,065	16,024	15,976	15,929	15,882	15,835
Civilian noninstitutional population <sup>1</sup> .....	16,037	15,955	15,955	15,943	15,902	15,861	15,820	15,794	15,753	15,702	15,671	15,625	15,579
Civilian labor force .....	8,826	8,631	8,643	8,686	8,549	8,616	8,819	8,271	8,362	8,503	8,548	8,452	8,490
Percent of civilian population .....	55.0	54.0	54.2	54.6	53.8	54.3	55.7	52.4	53.1	54.2	54.5	54.1	54.5
Employed .....	6,940	6,778	6,771	6,748	6,679	6,637	6,782	6,429	6,344	6,463	6,523	6,422	6,433
Percent of total population .....	42.4	41.6	41.6	41.6	41.3	41.1	42.1	40.0	39.6	40.5	41.0	40.4	40.6
Agriculture .....	355	326	373	359	336	326	390	353	386	411	336	393	456
Nonagricultural industries .....	6,585	6,452	6,398	6,389	6,343	6,311	6,392	6,076	5,958	6,052	6,187	6,029	5,977
Unemployed .....	1,886	1,853	1,872	1,938	1,870	1,979	2,037	1,842	2,018	2,040	2,025	2,030	2,057
Unemployment rate .....	21.4	21.5	21.7	22.3	21.9	23.0	23.1	22.3	24.1	24.0	23.7	24.0	24.2
Not in labor force .....	7,211	7,364	7,312	7,227	7,353	7,245	7,001	7,523	7,391	7,199	7,123	7,173	7,089

<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 status	1981		1982										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
<b>FULL TIME</b>													
Total, 16 years and over:													
Civilian labor force	53,607	93,856	93,129	93,421	93,860	93,890	94,619	93,984	94,348	94,404	94,690	94,941	95,137
Employed	86,062	85,729	85,324	85,523	85,505	85,269	85,903	85,112	85,406	85,337	85,091	84,955	84,934
Unemployed	7,545	8,127	7,805	7,897	8,355	8,601	8,717	8,873	8,942	9,067	9,599	9,987	10,203
Unemployment rate	8.1	8.7	8.4	8.5	8.9	9.2	9.2	9.4	9.5	9.6	10.1	10.5	10.7
<b>PART TIME</b>													
Total, 16 years and over:													
Civilian labor force	15,721	15,399	15,853	15,632	15,470	15,836	15,911	16,167	16,215	16,225	16,287	15,841	15,914
Employed	14,125	13,982	14,337	13,951	13,926	14,112	14,237	14,584	14,371	14,552	14,579	14,237	14,092
Unemployed	1,596	1,417	1,515	1,681	1,544	1,724	1,674	1,583	1,844	1,672	1,708	1,604	1,822
Unemployment rate	10.2	9.2	9.6	10.8	10.0	10.9	10.5	9.8	11.4	10.3	10.5	10.1	11.4

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]

Race, sex, and age	1981		1982										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
<b>WHITE</b>													
Total, 16 years and over:													
Civilian labor force	55,535	95,329	95,120	95,333	95,508	96,015	96,641	96,223	96,493	96,414	96,762	96,421	96,746
Employed	88,498	88,010	87,955	87,990	87,956	87,988	88,450	88,173	88,137	88,133	88,020	87,434	87,367
Unemployed	7,037	7,319	7,165	7,344	7,552	8,026	8,191	8,050	8,356	8,281	8,742	8,987	9,378
Unemployment rate	7.4	7.7	7.5	7.7	7.9	8.4	8.5	8.4	8.7	8.6	9.0	9.3	9.7
<b>Males, 20 years and over:</b>													
Civilian labor force	50,881	50,948	50,757	50,812	50,903	51,124	51,394	51,252	51,292	51,269	51,607	51,521	51,558
Employed	47,649	47,449	47,410	47,430	47,351	47,393	47,535	47,300	47,256	47,202	47,163	46,983	46,805
Unemployed	3,232	3,499	3,347	3,382	3,552	3,731	3,859	3,952	4,037	4,067	4,444	4,537	4,753
Unemployment rate	6.4	6.9	6.6	6.7	7.0	7.3	7.5	7.7	7.9	7.9	8.6	8.8	9.2
<b>Females, 20 years and over:</b>													
Civilian labor force	36,832	36,733	36,698	36,860	37,038	37,179	37,428	37,619	37,845	37,716	37,708	37,479	37,746
Employed	34,513	34,368	34,380	34,427	34,475	34,489	34,682	34,944	35,067	35,033	34,930	34,637	34,708
Unemployed	2,319	2,365	2,319	2,433	2,564	2,690	2,746	2,675	2,777	2,683	2,777	2,842	3,038
Unemployment rate	6.3	6.4	6.3	6.6	6.9	7.2	7.3	7.1	7.3	7.1	7.4	7.6	8.0
<b>Both sexes, 16 to 19 years:</b>													
Civilian labor force	7,822	7,648	7,665	7,662	7,567	7,712	7,819	7,352	7,356	7,429	7,447	7,422	7,441
Employed	6,336	6,193	6,166	6,133	6,130	6,106	6,233	5,929	5,814	5,899	5,927	5,314	5,954
Unemployed	1,486	1,455	1,499	1,529	1,437	1,606	1,586	1,423	1,542	1,530	1,520	1,608	1,587
Unemployment rate	19.0	19.0	19.6	20.0	19.0	20.8	20.3	19.4	21.0	20.6	20.4	21.7	21.3
<b>BLACK AND OTHER</b>													
Total, 16 years and over:													
Civilian labor force	13,757	13,773	13,704	13,857	13,810	13,768	14,097	13,947	14,027	14,232	14,282	14,306	14,307
Employed	11,661	11,610	11,632	11,653	11,515	11,446	11,669	11,560	11,594	11,738	11,687	11,659	11,652
Unemployed	2,096	2,163	2,072	2,204	2,294	2,322	2,429	2,387	2,433	2,494	2,595	2,647	2,656
Unemployment rate	15.2	15.7	15.1	15.9	16.6	16.9	17.2	17.1	17.3	17.5	18.2	18.5	18.6
<b>Males, 20 years and over:</b>													
Civilian labor force	6,555	6,614	6,563	6,649	6,620	6,704	6,759	6,762	6,784	6,797	6,876	6,899	6,968
Employed	5,694	5,647	5,630	5,688	5,622	5,667	5,709	5,688	5,720	5,703	5,662	5,641	5,754
Unemployed	901	967	933	961	998	1,037	1,050	1,075	1,063	1,093	1,213	1,258	1,214
Unemployment rate	13.7	14.6	14.2	14.5	15.1	15.5	15.5	15.9	15.7	16.1	17.6	18.2	17.4
<b>Females, 20 years and over:</b>													
Civilian labor force	6,147	6,163	6,152	6,163	6,199	6,145	6,324	6,273	6,247	6,370	6,341	6,365	6,316
Employed	5,359	5,355	5,388	5,338	5,321	5,248	5,407	5,387	5,350	5,474	5,436	5,415	5,346
Unemployed	788	808	764	826	878	897	917	887	897	896	905	949	970
Unemployment rate	12.8	13.1	12.4	13.4	14.2	14.6	14.5	14.1	14.4	14.1	14.3	14.9	15.4
<b>Both sexes, 16 to 19 years:</b>													
Civilian labor force	1,015	996	989	1,044	991	919	1,014	912	997	1,066	1,066	1,043	1,024
Employed	608	608	614	627	573	531	553	486	524	561	589	603	552
Unemployed	407	388	375	417	418	388	461	426	473	505	477	440	472
Unemployment rate	40.1	39.0	37.9	39.9	42.2	42.2	45.5	46.7	47.4	47.4	44.7	42.2	46.1

# HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[Unemployment rates]

Category	1981		1982										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	8.3	8.8	8.5	8.8	9.0	9.4	9.5	9.5	9.8	9.8	10.1	10.4	10.8
Males, 20 years and over .....	7.1	7.9	7.5	7.6	7.9	8.2	8.4	8.7	8.8	8.9	9.6	9.8	10.1
Females, 20 years and over .....	7.2	7.4	7.2	7.6	7.9	8.3	8.3	8.1	8.4	8.2	8.3	8.6	9.1
Both sexes, 16-19 years .....	21.4	21.5	21.7	22.3	21.9	23.0	23.1	22.3	24.1	24.0	23.7	24.0	24.2
White .....	7.4	7.7	7.5	7.7	7.9	8.4	8.5	8.4	8.7	8.6	9.0	9.3	9.7
Black and other .....	15.2	15.7	15.1	15.9	16.6	16.9	17.2	17.1	17.3	17.5	18.2	18.5	18.6
Married men, spouse present .....	5.2	5.7	5.3	5.3	5.5	6.0	6.1	6.5	6.6	6.7	7.3	7.6	7.7
Married women, spouse present .....	6.5	6.6	6.2	7.0	7.1	7.8	7.4	7.0	7.4	7.1	7.5	7.9	8.4
Women who maintain families .....	10.8	10.5	10.4	10.2	10.6	11.5	11.8	12.4	12.0	11.6	12.4	11.2	12.5
Full-time workers .....	8.1	8.7	8.4	8.5	8.9	9.2	9.2	9.4	9.5	9.6	10.1	10.5	10.7
Part-time workers .....	10.2	9.2	9.6	10.8	10.0	10.9	10.5	9.8	11.4	10.3	10.5	10.1	11.4
Unemployed 15 weeks and over <sup>1</sup> .....	2.2	2.2	2.2	2.5	2.7	2.7	3.0	3.3	3.2	3.3	3.5	3.8	4.1
Labor force time lost <sup>2</sup> .....	9.5	10.1	10.0	9.8	10.4	10.4	11.1	10.2	10.7	10.7	11.7	12.1	12.4
<b>OCCUPATION</b>													
White-collar workers .....	4.2	4.5	4.2	4.6	4.8	4.9	4.8	5.0	4.9	4.8	4.8	5.1	5.6
Professional and technical .....	2.7	3.4	2.9	3.1	3.2	3.2	3.3	3.3	3.3	3.1	3.2	3.5	3.8
Managers and administrators, except farm .....	3.0	3.1	2.7	3.1	3.0	3.3	3.5	3.8	3.7	3.8	3.6	3.6	3.9
Sales workers .....	5.0	4.9	4.5	4.8	5.8	5.6	5.2	5.8	5.4	5.5	5.4	6.1	6.3
Clerical workers .....	6.0	6.2	6.3	6.7	6.9	7.2	6.8	6.9	6.9	6.7	6.7	7.1	7.9
Blue-collar workers .....	11.8	12.7	12.5	12.5	12.9	13.7	13.5	13.9	14.4	14.2	15.6	15.9	16.5
Craft and kindred workers .....	8.5	9.3	9.0	8.4	9.1	9.6	9.4	10.3	10.9	10.6	11.4	10.9	12.2
Operatives, except transport .....	14.1	15.5	15.4	15.4	15.9	16.9	16.5	16.7	17.4	17.5	20.2	21.1	21.2
Transport equipment operatives .....	10.4	10.5	10.2	10.3	10.4	10.7	11.8	13.0	11.6	12.5	11.6	12.7	14.1
Nonfarm laborers .....	16.0	16.9	16.9	17.9	17.9	19.2	18.3	17.9	18.6	17.4	19.2	19.8	19.4
Service workers .....	9.7	9.6	9.2	9.8	10.2	11.1	11.3	9.9	10.5	10.6	10.7	10.6	11.2
Farm workers .....	6.2	6.4	6.9	4.9	5.4	5.8	8.3	7.2	6.1	6.9	5.1	6.6	7.7
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	8.4	9.1	8.8	9.0	9.5	9.9	9.9	10.0	10.2	10.1	10.7	11.1	11.5
Construction .....	17.8	18.1	18.7	18.1	17.9	19.4	18.8	19.2	20.3	20.3	22.6	23.0	21.9
Manufacturing .....	9.4	11.0	10.4	10.6	10.8	11.3	11.6	12.3	12.0	12.1	13.8	14.1	14.8
Durable goods .....	9.5	11.8	11.0	11.3	10.8	11.9	12.2	13.2	12.7	12.9	14.5	16.0	17.1
Nondurable goods .....	9.3	9.6	9.5	9.5	10.8	10.5	10.7	11.0	11.0	10.8	12.3	11.2	11.4
Transportation .....	5.5	6.0	6.4	5.9	5.6	7.0	6.5	6.9	6.1	7.0	6.9	8.1	8.7
Wholesale and retail trade .....	8.6	8.9	8.7	9.0	10.3	10.1	10.6	9.7	10.5	9.8	9.8	10.3	10.5
Finance and service industries .....	6.1	6.4	5.9	6.5	6.9	7.0	6.9	6.8	7.0	7.0	6.8	7.1	7.7
Government workers .....	5.2	5.0	4.8	5.2	4.9	5.3	5.0	4.6	4.6	4.6	4.9	4.8	5.2
Agricultural wage and salary workers .....	14.1	14.8	16.2	12.8	14.0	14.6	18.2	16.3	13.8	14.3	12.5	12.6	15.9

<sup>1</sup> Unemployment as a percent of the 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	1981		1982										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
<b>DURATION</b>													
Less than 5 weeks .....	3,852	4,037	3,852	3,789	3,825	3,958	3,874	3,543	3,990	3,923	4,038	3,920	3,972
5 to 14 weeks .....	2,882	3,016	3,068	3,052	3,078	3,304	3,320	3,458	3,161	3,304	3,595	3,517	3,595
15 weeks and over .....	2,364	2,372	2,399	2,724	2,954	3,015	3,286	3,673	3,580	3,631	3,870	4,153	4,547
15 to 26 weeks .....	1,229	1,189	1,210	1,445	1,605	1,508	1,634	1,826	1,792	1,810	1,856	1,927	2,221
27 weeks and over .....	1,135	1,183	1,190	1,278	1,349	1,507	1,652	1,847	1,788	1,821	2,014	2,226	2,326
Average (mean) duration, in weeks .....	13.1	12.8	13.5	14.1	13.9	14.2	14.6	16.5	15.6	16.2	16.6	17.2	17.2
Median duration, in weeks .....	6.9	6.7	7.2	7.3	7.6	8.5	9.0	9.8	8.3	8.2	9.5	9.6	10.1
<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 .....	42.3	42.8	41.3	39.6	38.8	38.5	37.0	33.2	37.2	36.1	35.1	33.8	32.8
5 to 14 weeks .....	31.7	32.0	32.9	31.9	31.2	32.1	31.7	32.4	29.5	30.4	31.3	30.3	29.7
15 weeks and over .....	26.0	25.2	25.7	28.5	30.0	29.3	31.4	34.4	33.4	33.4	33.6	35.8	37.5
15 to 26 weeks .....	13.5	12.6	13.0	15.1	16.3	14.7	15.6	17.1	16.7	16.7	16.1	16.6	18.3
27 weeks and over .....	12.5	12.6	12.8	13.4	13.7	14.7	15.8	17.3	16.7	16.8	17.5	19.2	19.2

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-38. Unemployment rates by sex and age, seasonally adjusted**

Sex and age	1981		1982										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
<b>Total, 16 years and over</b> .....	8.3	8.8	8.5	8.8	9.0	9.4	9.5	9.5	9.8	9.8	10.1	10.4	10.9
16 to 19 years .....	21.4	21.5	21.7	22.3	21.9	23.0	23.1	22.3	24.1	24.0	23.7	24.0	24.2
16 to 17 years .....	22.6	21.9	21.9	22.7	22.7	24.6	25.3	23.7	26.1	25.8	26.9	25.8	26.4
18 to 19 years .....	20.5	21.2	21.3	22.0	21.3	21.9	21.3	21.9	22.8	22.6	21.6	23.0	22.9
20 to 24 years .....	13.0	13.5	13.5	14.1	14.2	14.7	14.3	14.4	14.5	15.2	15.3	15.9	16.6
25 years and over .....	6.0	6.5	6.3	6.4	6.8	7.0	7.1	7.4	7.5	7.3	7.9	8.1	8.4
25 to 54 years .....	6.5	6.9	6.7	6.8	7.3	7.4	7.7	7.7	7.9	7.8	8.6	8.7	9.0
55 years and over .....	3.8	4.1	4.2	4.3	4.6	5.0	4.8	5.4	5.2	5.1	5.1	5.5	5.7
<b>Males, 16 years and over</b> .....	8.3	9.0	8.6	8.7	9.0	9.4	9.6	9.7	9.9	10.0	10.7	10.9	11.2
16 to 19 years .....	21.8	22.3	22.1	22.5	23.5	24.4	24.0	24.2	25.1	25.1	25.3	25.6	25.9
16 to 17 years .....	22.7	22.6	23.0	23.0	24.3	24.7	26.3	25.6	28.1	27.3	29.6	29.0	28.1
18 to 19 years .....	21.0	22.2	21.4	22.1	22.9	24.3	21.9	24.0	23.4	23.4	22.6	23.2	24.2
20 to 24 years .....	14.4	14.8	14.9	15.4	15.7	16.0	15.5	15.8	15.9	16.6	17.4	17.5	18.3
25 years and over .....	5.8	6.5	6.3	6.3	6.6	6.9	6.9	7.5	7.5	7.5	8.2	8.5	8.7
25 to 54 years .....	6.3	6.9	6.7	6.7	7.1	7.2	7.5	8.0	8.1	8.0	9.1	9.1	9.3
55 years and over .....	3.7	4.4	4.3	4.2	4.8	5.1	4.7	5.0	4.8	5.4	5.4	6.1	5.3
<b>Females, 16 years and over</b> .....	8.4	8.5	8.4	8.9	9.0	9.4	9.5	9.1	9.6	9.5	9.5	9.8	10.2
16 to 19 years .....	20.9	20.5	21.2	22.1	20.1	21.3	22.1	20.2	23.1	22.8	21.5	22.3	22.5
16 to 17 years .....	22.5	21.1	20.6	22.5	20.8	24.5	24.1	21.4	24.1	24.2	23.9	22.3	24.4
18 to 19 years .....	19.9	20.0	21.1	21.9	19.6	19.4	20.6	19.7	22.2	21.7	20.6	22.9	21.4
20 to 24 years .....	11.3	12.0	11.9	12.7	12.6	13.3	12.9	12.9	12.9	13.7	12.5	14.0	14.6
25 years and over .....	6.4	6.4	6.3	6.5	7.0	7.2	7.4	7.2	7.4	7.0	7.4	7.5	8.0
25 to 54 years .....	6.8	6.9	6.7	7.0	7.6	7.7	8.0	7.4	7.7	7.5	8.0	8.1	8.5
55 years and over .....	3.8	3.7	4.1	4.3	4.3	4.8	5.0	6.0	6.0	4.6	4.7	4.7	4.9

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

[Numbers in thousands]

Reason for unemployment	1981		1982										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
<b>NUMBER OF UNEMPLOYED</b>													
<b>Both sexes, 16 years and over:</b>													
Job losers .....	4,905	5,343	5,205	5,153	5,622	5,906	5,901	6,302	6,177	6,347	7,073	7,477	7,478
On layoff .....	1,826	2,042	1,860	1,740	1,828	1,946	1,969	2,071	2,079	2,180	2,669	2,572	2,587
Other job losers .....	3,079	3,301	3,345	3,413	3,794	3,959	3,932	4,231	4,098	4,167	4,404	4,905	4,891
Job leavers .....	916	923	835	964	885	937	874	813	813	806	767	796	784
Reentrants .....	2,339	2,244	2,079	2,277	2,249	2,365	2,438	2,372	2,528	2,440	2,415	2,217	2,569
New entrants .....	996	1,021	1,055	1,100	1,044	1,081	1,154	1,088	1,249	1,328	1,326	1,312	1,230
<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
Job losers .....	53.6	56.1	56.7	54.3	57.4	57.4	56.9	59.6	57.4	58.1	61.1	63.4	62.0
On layoff .....	19.9	21.4	20.3	18.3	18.7	18.9	19.0	19.6	19.3	20.0	23.0	21.8	21.4
Other job losers .....	33.6	34.6	36.5	35.9	38.7	38.5	37.9	40.0	38.1	38.2	38.0	41.6	40.6
Job leavers .....	10.0	9.7	9.1	10.2	9.0	8.4	7.7	7.7	7.5	7.4	6.6	6.7	6.5
Reentrants .....	25.5	23.5	22.7	24.0	22.9	23.0	23.5	22.4	23.5	22.3	20.8	18.8	21.3
New entrants .....	10.9	10.7	11.5	11.6	10.7	10.5	11.1	10.3	11.6	12.2	11.4	11.1	10.2
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	4.5	4.9	4.8	4.7	5.1	5.4	5.3	5.7	5.6	5.7	6.4	6.8	6.7
Job leavers .....	.8	.8	.8	.9	.8	.9	.8	.7	.7	.7	.7	.7	.7
Reentrants .....	2.1	2.1	1.9	2.1	2.1	2.2	2.2	2.2	2.3	2.2	2.2	2.0	2.3
New entrants .....	.9	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.2	1.1

**HOUSEHOLD DATA**  
**SEASONALLY ADJUSTED**

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

(In thousands)

Sex and age	1981		1982										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
<b>Total, 16 years and over</b> .....	100,172	99,613	99,581	99,590	99,492	99,340	100,117	99,764	99,732	99,839	99,720	99,093	99,032
16 to 19 years .....	6,940	6,778	6,771	6,748	6,679	6,637	6,782	6,429	6,344	6,463	6,523	6,422	6,433
16 to 17 years .....	2,768	2,703	2,705	2,690	2,642	2,610	2,629	2,389	2,342	2,397	2,438	2,429	2,441
18 to 19 years .....	4,192	4,075	4,066	4,058	4,037	4,027	4,153	4,040	3,998	4,066	4,103	3,990	3,980
20 to 24 years .....	13,970	13,935	13,816	13,788	13,811	13,730	13,820	13,778	13,723	13,642	13,593	13,464	13,477
25 years and over .....	79,202	78,881	78,960	79,045	78,578	78,973	75,905	79,598	79,696	79,784	79,587	79,204	79,074
25 to 54 years .....	64,868	64,567	64,722	64,853	64,648	64,670	65,069	65,197	65,345	65,483	64,980	64,922	64,759
55 years and over .....	14,337	14,314	14,238	14,192	14,299	14,298	14,449	14,379	14,392	14,327	14,610	14,272	14,313
<b>Males, 16 years and over</b> .....	57,051	56,725	56,629	56,658	56,472	56,401	56,820	56,223	56,192	56,210	56,148	55,915	55,863
16 to 19 years .....	3,697	3,603	3,582	3,561	3,466	3,412	3,560	3,238	3,196	3,323	3,320	3,289	3,308
16 to 17 years .....	1,495	1,448	1,446	1,439	1,387	1,365	1,417	1,237	1,174	1,244	1,222	1,227	1,271
18 to 19 years .....	2,208	2,155	2,136	2,123	2,079	2,047	2,143	1,999	1,988	2,079	2,112	2,063	2,024
20 to 24 years .....	7,373	7,380	7,321	7,288	7,246	7,208	7,281	7,194	7,237	7,175	7,097	7,125	7,077
25 years and over .....	45,940	45,709	45,686	45,786	45,762	45,782	45,567	45,838	45,764	45,744	45,717	45,486	45,467
25 to 54 years .....	37,364	37,052	37,127	37,235	37,173	37,194	37,351	37,227	37,189	37,269	37,059	37,005	36,938
55 years and over .....	8,590	8,608	8,582	8,523	8,578	8,591	8,641	8,629	8,576	8,463	8,662	8,475	8,504
<b>Females, 16 years and over</b> .....	43,121	42,888	42,952	42,932	43,020	42,940	43,297	43,541	43,540	43,630	43,572	43,179	43,169
16 to 19 years .....	3,243	3,175	3,189	3,187	3,213	3,225	3,222	3,191	3,148	3,140	3,203	3,133	3,125
16 to 17 years .....	1,273	1,255	1,259	1,251	1,255	1,225	1,212	1,152	1,168	1,153	1,216	1,202	1,170
18 to 19 years .....	1,984	1,925	1,931	1,944	1,966	2,007	2,009	2,028	1,975	1,992	1,991	1,927	1,956
20 to 24 years .....	6,597	6,555	6,495	6,500	6,565	6,523	6,539	6,584	6,486	6,467	6,496	6,339	6,400
25 years and over .....	33,262	33,172	33,274	33,259	33,216	33,192	33,542	33,760	33,932	34,040	33,870	33,718	33,607
25 to 54 years .....	27,504	27,415	27,595	27,618	27,475	27,476	27,718	27,970	28,155	28,214	27,921	27,917	27,821
55 years and over .....	5,747	5,724	5,701	5,635	5,721	5,707	5,808	5,750	5,816	5,863	5,548	5,797	5,809

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

(In thousands)

Sex and age	1981		1982										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
<b>Total, 16 years and over</b> .....	9,100	9,571	9,298	9,575	9,854	10,307	10,549	10,427	10,790	10,805	11,260	11,551	11,987
16 to 19 years .....	1,886	1,853	1,872	1,938	1,870	1,979	2,037	1,842	2,018	2,040	2,025	2,030	2,057
16 to 17 years .....	808	759	760	792	775	851	891	742	829	834	896	845	875
18 to 19 years .....	1,080	1,098	1,098	1,149	1,099	1,130	1,126	1,126	1,182	1,184	1,133	1,195	1,177
20 to 24 years .....	2,088	2,168	2,161	2,271	2,293	2,374	2,303	2,321	2,335	2,454	2,458	2,552	2,680
25 years and over .....	5,091	5,481	5,282	5,401	5,748	5,962	6,095	6,326	6,428	6,288	6,799	6,979	7,215
25 to 54 years .....	4,536	4,804	4,649	4,756	5,066	5,186	5,428	5,474	5,625	5,543	6,112	6,184	6,372
55 years and over .....	562	620	624	630	691	752	732	824	797	770	789	838	867
<b>Males, 16 years and over</b> .....	5,133	5,578	5,338	5,384	5,610	5,846	6,029	6,065	6,161	6,250	6,704	6,864	7,068
16 to 19 years .....	1,028	1,035	1,016	1,033	1,062	1,104	1,125	1,034	1,073	1,111	1,125	1,131	1,148
16 to 17 years .....	438	424	433	429	445	454	506	429	458	466	514	500	497
18 to 19 years .....	587	616	581	604	621	647	606	628	618	633	616	624	646
20 to 24 years .....	1,245	1,278	1,284	1,324	1,346	1,377	1,333	1,347	1,371	1,426	1,495	1,516	1,587
25 years and over .....	2,834	3,199	3,055	3,071	3,247	3,383	3,422	3,726	3,698	3,726	4,103	4,231	4,312
25 to 54 years .....	2,522	2,762	2,662	2,675	2,820	2,895	3,034	3,225	3,265	3,259	3,691	3,727	3,783
55 years and over .....	333	357	383	377	431	461	428	457	428	485	493	552	567
<b>Females, 16 years and over</b> .....	3,967	3,993	3,960	4,191	4,243	4,461	4,520	4,362	4,629	4,555	4,556	4,686	4,919
16 to 19 years .....	858	818	856	905	808	875	912	808	945	929	900	899	909
16 to 17 years .....	370	335	327	363	330	397	385	313	371	368	382	345	378
18 to 19 years .....	493	482	517	545	478	483	520	498	564	551	517	571	531
20 to 24 years .....	843	890	877	947	947	998	969	974	964	1,028	963	1,035	1,094
25 years and over .....	2,257	2,282	2,228	2,330	2,501	2,578	2,673	2,600	2,730	2,562	2,696	2,748	2,903
25 to 54 years .....	2,014	2,042	1,987	2,081	2,246	2,291	2,397	2,249	2,360	2,284	2,421	2,457	2,589
55 years and over .....	229	223	241	253	260	291	304	367	369	285	296	286	300

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Category	1981		1982										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
<b>CHARACTERISTIC</b>													
Total, 16 years and over .....	100,172	99,613	99,581	99,590	99,492	99,340	100,117	99,764	99,732	99,839	99,720	99,793	99,332
Married men, spouse present .....	38,553	38,342	38,234	38,255	38,181	38,142	38,312	38,354	38,213	38,184	38,041	37,390	37,598
Married women, spouse present .....	23,820	23,691	23,744	23,727	23,900	23,831	24,213	24,401	24,223	24,300	24,187	24,047	23,951
<b>OCCUPATION</b>													
White-collar workers .....	53,086	53,084	52,836	52,841	52,763	53,177	53,705	53,586	53,685	53,750	53,876	53,643	53,729
Professional and technical .....	16,657	16,774	16,803	16,612	16,659	16,644	16,818	17,053	17,292	17,023	16,901	17,049	17,093
Managers and administrators, except farm .....	11,461	11,424	11,091	11,253	11,311	11,501	11,541	11,504	11,355	11,613	11,649	11,605	11,635
Sales workers .....	6,418	6,450	6,520	6,544	6,637	6,603	6,587	6,547	6,567	6,677	6,507	6,595	6,633
Clerical workers .....	18,550	18,436	18,423	18,432	18,155	18,229	18,759	18,482	18,471	18,437	18,819	18,395	18,367
Blue-collar workers .....	30,683	30,344	30,203	30,309	30,416	29,924	29,926	29,716	29,609	29,465	29,143	29,147	28,685
Craft and kindred workers .....	12,411	12,446	12,370	12,454	12,511	12,492	12,316	12,207	12,229	12,342	12,253	12,164	12,150
Operatives, except transport .....	10,220	9,966	9,966	9,955	9,860	9,668	9,585	9,655	9,453	9,257	8,938	8,945	8,778
Transport equipment .....													
operatives .....	3,438	3,368	3,415	3,503	3,397	3,400	3,419	3,414	3,439	3,268	3,369	3,342	3,273
Nonfarm laborers .....	4,614	4,361	4,451	4,357	4,648	4,343	4,607	4,441	4,488	4,598	4,583	4,696	4,484
Service workers .....	13,670	13,639	13,709	13,612	13,526	13,555	13,738	13,791	13,634	13,926	14,029	13,725	13,871
Farm workers .....	2,802	2,660	2,817	2,787	2,710	2,623	2,731	2,660	2,750	2,711	2,714	2,710	2,761
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,436	1,352	1,377	1,426	1,416	1,423	1,541	1,431	1,530	1,568	1,538	1,608	1,599
Self-employed workers .....	1,641	1,602	1,674	1,596	1,644	1,664	1,698	1,676	1,674	1,613	1,562	1,616	1,625
Unpaid family workers .....	321	228	380	359	277	270	236	251	250	254	255	221	247
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	89,238	88,991	88,759	88,586	88,526	88,322	89,051	88,606	88,541	88,737	88,650	87,995	87,877
Government .....	15,397	15,585	15,578	15,527	15,492	15,453	15,422	15,635	15,443	15,569	15,691	15,420	15,498
Private industries .....	73,841	73,406	73,181	73,059	73,034	72,869	73,629	72,970	73,098	73,168	72,959	72,575	72,380
Private households .....	1,204	1,291	1,248	1,161	1,225	1,192	1,202	1,201	1,200	1,242	1,229	1,220	1,234
Other industries .....	72,637	72,115	71,932	71,898	71,809	71,677	72,427	71,770	71,898	71,927	71,730	71,355	71,145
Self-employed workers .....	7,141	7,057	6,971	7,055	7,126	7,264	7,269	7,319	7,268	7,352	7,478	7,333	7,353
Unpaid family workers .....	425	410	410	408	434	413	382	397	390	409	372	415	381
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries .....	91,323	90,922	90,125	90,892	90,548	90,596	91,282	91,020	90,501	90,508	91,054	90,220	90,238
Full-time schedules .....	73,915	73,360	72,803	73,028	72,649	72,335	73,036	72,662	72,430	72,112	71,700	71,215	71,408
Part-time for economic reasons .....	5,026	5,288	5,071	5,563	5,717	5,834	5,763	5,444	5,492	5,648	6,600	6,574	6,484
Usually work full-time .....	1,945	2,121	1,783	2,193	2,237	2,223	2,211	2,064	2,001	2,054	2,571	2,514	2,226
Usually work part-time .....	3,081	3,167	3,287	3,370	3,480	3,611	3,552	3,380	3,491	3,594	4,029	4,060	4,258
Part time for noneconomic reasons .....	12,382	12,274	12,251	12,300	12,183	12,427	12,483	12,914	12,579	12,748	12,754	12,431	12,346

<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	
Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	Nov. 1981	Nov. 1982	
<b>VETERANS</b>										
Total, 25 years and over .....	8,638	8,263	8,187	7,774	7,661	7,056	526	718	6.4	9.2
25 to 29 years .....	7,300	6,643	7,013	6,349	6,538	5,727	475	622	6.8	9.8
25 to 29 years .....	1,401	1,016	1,303	945	1,156	797	147	148	11.3	15.7
30 to 34 years .....	3,200	2,625	3,081	2,492	2,890	2,265	191	227	6.2	9.1
35 to 39 years .....	2,699	3,002	2,629	2,912	2,492	2,665	137	247	5.2	8.5
40 years and over .....	1,338	1,620	1,174	1,425	1,123	1,329	51	96	4.3	6.7
<b>NONVETERANS</b>										
Total, 25 to 39 years .....	17,564	19,042	16,640	18,035	15,511	16,240	1,129	1,795	6.8	10.0
25 to 29 years .....	7,968	8,399	7,493	7,910	6,876	6,979	617	931	8.2	11.8
30 to 34 years .....	5,666	6,333	5,413	6,007	5,101	5,459	312	508	5.8	8.5
35 to 39 years .....	3,930	4,310	3,734	4,118	3,534	3,762	200	356	5.4	8.6

NOTE: Vietnam-era veterans are males who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are males who have never served in the Armed Forces; published data are limited to those 25 to 39 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

# ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

**B-1. Employees on nonagricultural payrolls by industry division, 1930 to date**

(In thousands)

Year and month	Total	Goods-producing						Service-producing							
		Total	Mining	Construc- tion	Manufac- turing	Total	Transpor- tation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
								Total	Whole- sale trade	Retail trade			Total	Federal	State and local
<b>Annual averages</b>															
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
<b>1940-1949</b>															
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	5,251	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	3,175
1944.....	41,864	19,328	892	1,108	17,328	22,536	3,829	7,058	1,845	5,214	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	6,084	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	6,485	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
<b>1950-1959</b>															
1950.....	45,197	18,506	901	2,364	15,241	26,691	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098
1951.....	47,819	19,959	929	2,637	16,393	27,860	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,087
1952.....	48,793	20,198	898	2,668	16,632	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188
1953.....	50,202	21,074	866	2,659	17,549	29,128	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340
1954.....	48,990	19,751	791	2,646	16,314	29,239	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563
1955.....	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,610	2,298	6,240	6,914	2,187	4,727
1956.....	52,369	21,104	822	3,039	17,243	31,266	4,244	10,858	3,018	7,840	2,389	6,497	7,278	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>2</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
<b>1960-1969</b>															
1960.....	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083
1961.....	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315
1962.....	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963.....	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868
1964.....	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965.....	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966.....	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967.....	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968.....	67,897	23,737	606	3,350	19,781	44,160	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102
1969.....	70,384	24,361	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,758	9,437
<b>1970-1979</b>															
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.....	82,471	24,346	813	3,851	19,682	58,125	4,713	18,516	4,708	13,808	4,467	15,303	15,127	2,727	12,399
1978.....	86,697	25,585	851	4,229	20,505	61,113	4,923	19,542	4,969	14,573	4,724	16,252	15,672	2,753	12,919
1979.....	89,823	26,461	858	4,463	21,040	63,363	5,136	20,192	5,204	14,989	4,975	17,112	15,947	2,773	13,174
1980.....	90,406	25,658	1,027	4,346	20,285	64,748	5,146	20,310	5,275	15,035	5,160	17,890	16,241	2,866	13,375
1981.....	91,105	25,481	1,132	4,176	20,173	65,625	5,157	20,551	5,359	15,192	5,301	18,592	16,024	2,772	13,253
<b>Monthly data, seasonally adjusted</b>															
<b>1981:</b>															
November.....	90,996	25,176	1,202	4,071	19,903	65,820	5,150	20,623	5,375	15,248	5,324	18,815	15,908	2,749	13,159
December.....	90,642	24,908	1,206	4,026	19,676	65,734	5,128	20,524	5,357	15,167	5,331	18,834	15,917	2,756	13,161
<b>1982:</b>															
January.....	90,460	24,684	1,201	3,966	19,517	65,776	5,125	20,630	5,346	15,284	5,326	18,831	15,864	2,741	13,123
February.....	90,459	24,631	1,203	3,974	19,454	65,828	5,115	20,670	5,343	15,327	5,326	18,867	15,850	2,737	13,113
March.....	90,304	24,450	1,197	3,934	19,319	65,854	5,100	20,655	5,336	15,319	5,336	18,904	15,859	2,736	13,123
April.....	90,083	24,289	1,182	3,938	19,169	65,754	5,054	20,584	5,323	15,261	5,335	18,929	15,852	2,730	13,122
May.....	90,166	24,255	1,152	3,988	19,115	65,911	5,101	20,652	5,331	15,321	5,342	18,963	15,853	2,728	13,125
June.....	89,839	23,994	1,124	3,940	18,930	65,845	5,078	20,595	5,307	15,288	5,352	18,988	15,832	2,739	13,093
July.....	89,535	23,840	1,100	3,927	18,813	65,655	5,044	20,615	5,299	15,316	5,359	19,042	15,635	2,737	12,898
August.....	89,312	23,657	1,086	3,899	18,672	65,655	5,025	20,550	5,278	15,272	5,360	19,048	15,672	2,739	12,933
September.....	89,267	23,5													

# ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982 <sup>2</sup>	Nov. 1982 <sup>2</sup>	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982 <sup>2</sup>	Nov. 1982 <sup>2</sup>
-	<b>TOTAL</b>	91,884	91,765	89,523	89,536	89,451	-	-	-	-	-
-	<b>PRIVATE SECTOR</b>	75,884	75,628	74,129	73,706	73,482	61,565	61,311	59,869	59,493	59,277
-	<b>MINING</b>	1,196	1,203	1,084	1,066	1,052	880	885	772	755	745
10	<b>METAL MINING</b>	102.7	99.9	61.7	56.8	-	77.2	75.1	44.0	41.4	-
101	Iron ores	20.9	19.0	5.2	5.2	-	16.2	14.7	3.2	3.2	-
102	Copper ores	35.9	35.8	21.0	20.6	-	27.6	27.6	14.9	14.6	-
11, 12	<b>COAL MINING</b>	251.8	255.4	229.3	225.8	-	208.2	212.3	186.1	182.9	-
12	BITUMINOUS COAL AND LIGNITE MINING	248.3	251.9	225.9	222.5	-	205.0	209.1	183.1	180.0	-
13	<b>OIL AND GAS EXTRACTION</b>	719.6	728.2	674.9	664.4	-	501.2	507.0	450.7	442.8	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	274.2	276.6	291.4	289.6	-	118.4	119.2	130.8	130.3	-
138	Oil and gas field services	445.4	451.6	383.5	374.8	-	382.8	387.8	319.9	312.0	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b>	121.7	119.1	118.1	116.5	-	93.3	90.8	90.7	89.2	-
142	Crushed and broken stone	38.0	37.1	37.4	37.3	-	31.1	30.2	30.2	30.0	-
144	Sand and gravel	35.2	34.0	35.1	34.3	-	-	-	-	-	-
147	Chemical and fertilizer minerals	27.4	27.1	24.5	24.3	-	-	-	-	-	-
-	<b>CONSTRUCTION</b>	4,340	4,221	4,112	4,081	3,992	3,412	3,300	3,197	3,172	3,089
15	<b>GENERAL BUILDING CONTRACTORS</b>	1,111.0	1,074.8	1,004.7	997.6	-	846.9	813.3	749.3	744.7	-
152	Residential building construction	526.4	505.9	492.4	487.1	-	385.8	368.0	357.5	353.5	-
153	Operative builders	57.3	53.8	47.8	47.7	-	32.7	29.5	22.4	22.9	-
154	Nonresidential building construction	527.3	515.1	464.5	462.8	-	428.4	415.8	369.4	363.3	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b>	975.5	940.9	917.8	907.2	-	792.7	759.9	743.0	733.2	-
161	Highway and street construction	274.1	252.9	261.3	256.2	-	232.0	211.3	222.6	217.8	-
162	Heavy construction, except highway	701.4	688.0	656.5	651.0	-	560.7	548.6	520.4	515.4	-
17	<b>SPECIAL TRADE CONTRACTORS</b>	2,253.3	2,205.3	2,189.7	2,176.4	-	1,772.4	1,727.2	1,704.9	1,694.4	-
171	Plumbing, heating, air conditioning	530.2	523.2	498.8	496.7	-	393.7	387.1	362.4	361.4	-
172	Painting, paper hanging, decorating	142.1	136.7	143.0	139.1	-	118.5	113.7	120.0	115.9	-
173	Electrical work	420.5	416.5	402.5	402.1	-	326.4	322.5	307.9	308.2	-
174	Masonry, stonework, and plastering	331.3	324.6	317.3	317.3	-	282.6	275.5	267.7	268.5	-
175	Carpentering and flooring	119.8	115.5	115.6	113.8	-	88.9	84.9	86.0	84.9	-
176	Roofing and sheet metal work	167.3	166.8	165.0	165.5	-	136.4	135.9	132.4	132.6	-
-	<b>MANUFACTURING</b>	20,271	20,025	18,795	18,495	18,302	14,079	13,834	12,773	12,497	12,331
24, 25, 32-39	<b>DURABLE GOODS</b>	12,144	11,979	10,982	10,749	10,637	8,297	8,135	7,264	7,055	6,962
20-23, 26-31	<b>NONDURABLE GOODS</b>	8,127	8,046	7,813	7,746	7,665	5,782	5,699	5,509	5,442	5,369
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b>	654.5	625.1	634.9	623.9	617.4	542.3	517.1	524.9	514.2	507.2
241	Logging camps and logging contractors	86.2	82.9	85.0	82.7	-	68.8	65.3	67.4	64.9	-
242	Sawmills and planing mills	199.0	191.2	198.9	194.8	-	174.8	167.6	174.6	170.7	-
2421	Sawmills and planing mills, general	165.1	158.6	167.3	163.3	-	145.6	139.0	147.2	143.4	-
2428	Hardwood dimension and flooring	28.9	28.2	27.1	27.1	-	24.9	24.2	23.3	23.4	-
243	Millwork, plywood, and structural members	183.9	174.9	177.1	174.6	-	150.8	141.8	144.0	141.4	-
2431	Millwork	64.9	61.5	65.3	64.0	-	51.7	48.3	51.4	50.1	-
2434	Wood kitchen cabinets	45.0	42.3	40.2	39.5	-	35.7	33.1	31.4	30.4	-
2436	Hardwood veneer and plywood	24.6	23.7	21.7	21.2	-	21.7	20.8	18.8	18.4	-
2438	Softwood veneer and plywood	36.5	34.9	36.2	35.9	-	32.5	30.8	32.0	31.8	-
244	Wood containers	40.9	39.6	40.0	40.2	-	34.7	33.3	34.0	34.0	-
245	Wood buildings and mobile homes	64.6	62.2	61.5	59.6	-	46.5	43.8	45.1	43.9	-
2451	Mobile homes	46.9	45.3	46.7	45.1	-	35.4	33.5	35.8	34.5	-
249	Miscellaneous wood products	79.9	78.3	72.4	72.0	-	66.7	65.3	59.8	59.3	-
25	<b>FURNITURE AND FIXTURES</b>	473.9	467.4	441.3	438.5	438.2	381.0	373.7	348.9	345.9	345.3
251	Household furniture	299.6	295.6	273.5	272.6	-	250.1	245.6	225.4	224.0	-
2511	Wood household furniture	133.8	131.7	123.3	121.8	-	116.0	113.5	105.8	103.7	-
2512	Upholstered household furniture	89.7	88.8	83.1	83.1	-	72.9	72.0	67.1	67.2	-
2514	Metal household furniture	31.3	31.6	26.6	28.1	-	25.4	25.4	20.8	22.3	-
2515	Mattresses and bedspreads	30.7	29.5	28.9	28.2	-	23.6	22.5	21.8	21.1	-
252	Office furniture	55.6	55.7	54.9	53.6	-	43.7	43.5	42.1	41.1	-
253	Public building and related furniture	23.9	23.6	21.4	21.8	-	18.1	17.7	15.6	16.0	-
254	Partitions and fixtures	63.7	61.5	59.1	58.1	-	47.5	45.6	43.7	42.8	-
259	Miscellaneous furniture and fixtures	31.1	31.0	32.4	32.4	-	21.6	21.3	22.1	21.9	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	639.8	628.5	584.0	573.9	566.4	494.0	482.4	445.0	435.4	427.7
321	Flat glass	18.5	17.9	16.0	15.7	-	14.6	14.1	12.7	12.4	-
322	Glass and glassware, pressed or blown	121.6	115.8	111.0	108.7	-	103.3	101.5	93.3	91.2	-
3221	Glass containers	67.5	66.1	64.0	63.1	-	59.4	57.9	56.4	55.5	-
3229	Pressed and blown glass, nec	54.1	53.7	47.0	45.6	-	43.9	43.6	36.9	35.7	-
323	Products of purchased glass	44.5	43.8	40.6	39.8	-	29.7	28.9	27.0	25.2	-
324	Cement, hydraulic	30.0	30.4	29.0	28.2	-	23.8	24.3	22.8	22.3	-
325	Structural clay products	40.9	39.4	34.3	34.4	-	30.9	29.3	25.1	25.1	-
326	Pottery and related products	43.0	42.3	39.0	38.9	-	35.4	34.7	31.4	31.2	-
327	Concrete, gypsum, and plaster products	194.0	185.5	184.0	180.7	-	149.9	145.8	140.8	137.7	-
3271	Concrete block and brick	19.1	18.7	18.5	18.7	-	13.0	12.7	12.9	12.6	-
3272	Concrete products, nec	65.9	64.7	61.3	59.3	-	49.8	48.6	45.7	43.7	-
3273	Ready-mixed concrete	89.7	87.1	85.9	85.2	-	71.6	69.3	67.8	67.4	-
329	Misc. nonmetallic mineral products	135.1	133.5	117.8	115.7	-	96.3	94.2	82.1	80.1	-
3291	Abrasive products	27.6	27.6	23.8	23.4	-	18.5	18.4	14.7	14.4	-
3292	Asbestos products	15.7	15.5	14.0	13.6	-	12.0	11.8	10.5	10.2	-
3296	Mineral wool	29.2	28.7	27.1	27.1	-	-	-	-	-	-
33	<b>PRIMARY METAL INDUSTRIES</b>	1,102.2	1,081.0	870.4	830.2	810.2	842.3	820.7	642.2	605.1	590.6
331	Blast furnace and basic steel products	490.2	478.7	357.4	340.3	-	376.6	364.3	263.0	247.7	-
3312	Blast furnaces and steel mills	406.6	396.9	292.9	278.9	-	313.0	302.5	216.2	203.8	-
3317	Steel pipe and tubes	31.7	30.8	24.0	22.4	-	24.6	23.6	17.5	15.9	-
332	Iron and steel foundries	199.9	195.2	152.3	139.6	-	158.4	153.8	116.6	104.7	-
3321	Gray iron foundries	120.3	117.5	93.2	85.5	-	97.8	95.1	73.6	66.3	-
3322	Malleable iron foundries	15.8	15.1	11.9	10.6	-	12.1	11.5	8.7	7.5	-
3325	Steel foundries, nec	50.6	49.6	36.8	33.5	-	39.8	38.7	27.6	24.4	-
333	Primary nonferrous metals	69.0	67.8	55.9	53.4	-	51.5	50.2	39.9	38.1	-
3334	Primary aluminum	35.5	34.6	28.4	26.5	-	27.3	26.3	21.0	19.6	-
335	Nonferrous rolling and drawing	205.1	202.6	183.5	179.0	-	147.3	145.4	129.5	125.5	-
3351	Copper rolling and drawing	29.1	28.6	24.5	23.8	-	21.8	21.4	18.6	17.2	-
3353	Aluminum sheet, plate, and foil	33.8	33.1	29.5	29.6	-	26.2	25.5	22.9	22.9	-
3357	Nonferrous wire drawing and insulating	67.6	67.3	78.4	76.7	-	62.9	62.8	55.2	53.3	-
336	Nonferrous foundries	89.0	87.8	78.5	76.2	-	71.3	70.0	61.8	59.8	-
3361	Aluminum foundries	51.8	51.1	44.7	43.1	-	42.3	41.5	36.0	34.8	-
34	<b>FABRICATED METAL PRODUCTS</b>	1,591.8	1,570.4	1,424.9	1,394.3	1,384.6	1,169.7	1,149.6	1,027.8	1,002.4	998.2
341	Metal cans and shipping containers	68.7	67.8	67.4	64.1	-	58.3	57.4	57.2	53.9	-
3411	Metal cans	56.0	55.1	55.1	52.1	-	48.2	47.3	47.7	44.7	-
342	Cutlery, hand tools, and hardware	158.2	156.2	133.8	131.6	-	120.2	118.1	96.9	94.4	-
3423.5	Hand and edge tools, and hand saws and blades	55.0	54.4	43.8	43.1	-	41.9	41.4	31.8	30.9	-
3429	Hardware, nec	88.1	86.9	76.5	74.9	-	67.2	65.8	55.9	54.2	-
343	Plumbing and heating, except electric	70.2	65.4	66.8	66.9	-	50.7	49.5	46.8	46.9	-
3432	Plumbing fittings and brass goods	26.9	26.3	26.8	26.3	-	21.5	20.8	21.0	20.4	-
3433	Heating equipment, except electric	32.4	32.5	30.0	30.5	-	21.8	21.7	19.4	19.9	-
344	Fabricated structural metal products	507.7	501.2	456.5	451.2	-	345.7	339.8	307.6	304.5	-
3441	Fabricated structural metal	100.5	100.4	86.4	84.6	-	71.8	71.4	60.4	58.6	-
3442	Metal doors, sash, and trim	80.9	78.9	79.6	79.1	-	58.6	56.4	58.1	57.9	-
3443	Fabricated plate work (boiler shops)	148.7	146.6	127.9	125.4	-	90.0	88.3	75.8	75.0	-
3444	Sheet metal work	108.9	107.8	100.8	100.1	-	79.2	78.6	72.2	71.5	-
3446	Architectural metal work	30.4	29.8	28.2	28.5	-	21.1	20.7	19.3	19.8	-
345	Screw machine products, bolts, etc.	104.5	103.5	88.6	85.8	-	80.2	79.3	66.0	63.4	-
3451	Screw machine products	47.8	47.4	41.2	40.5	-	38.7	38.2	32.0	31.4	-
3452	Bolts, nuts, rivets, and washers	56.7	56.1	47.4	45.3	-	41.5	41.1	34.0	32.0	-
346	Metal forgings and stampings	256.3	245.6	225.0	214.5	-	202.9	196.7	176.1	166.7	-
3462	Iron and steel forgings	43.6	42.7	32.4	30.4	-	33.9	33.1	24.0	22.2	-
3465	Automotive stampings	94.8	91.6	86.4	80.4	-	78.6	75.7	72.4	66.7	-
3469	Metal stampings, nec	105.6	103.1	94.7	92.7	-	81.0	78.5	71.0	69.5	-
347	Metal services, nec	103.0	102.1	91.2	89.9	-	82.7	82.1	71.7	70.7	-
3471	Plating and polishing	70.2	69.5	62.9	62.2	-	57.4	57.1	50.8	50.3	-
3479	Metal coating and allied services	32.8	32.6	28.3	27.7	-	25.3	25.0	20.9	20.4	-
348	Ordnance and accessories, nec	70.1	70.3	71.9	71.8	-	44.1	44.7	45.6	46.4	-
3483	Ammunition, exc. for small arms, nec	26.6	26.9	27.7	27.9	-	16.5	17.2	17.5	17.8	-
349	Misc. fabricated metal products	253.1	250.3	223.7	218.5	-	184.9	182.0	159.9	155.5	-
3494	Valves and pipe fittings	103.7	103.8	90.8	88.6	-	70.3	70.1	59.5	58.0	-
3496	Misc. fabricated wire products	54.0	53.2	50.7	50.3	-	41.8	41.0	38.4	38.0	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2,525.1	2,510.0	2,206.2	2,138.0	2,109.2	1,593.2	1,577.6	1,308.6	1,246.4	1,224.5
351	Engines and turbines	136.2	135.1	108.3	105.9	-	88.1	87.2	65.3	63.3	-
3511	Turbines and turbine generator sets	45.7	45.5	41.8	41.7	-	24.4	24.4	22.7	22.5	-
3519	Internal combustion engines, nec	90.5	89.6	66.5	64.2	-	63.7	62.8	42.6	40.7	-
352	Farm and garden machinery	151.4	149.3	125.5	120.8	-	100.3	98.8	80.3	75.5	-
3523	Farm machinery and equipment	129.2	126.2	106.1	100.9	-	84.1	81.6	67.6	62.2	-
353	Construction and related machinery	409.2	408.4	310.0	284.9	-	268.3	267.1	185.9	161.7	-
3531	Construction machinery	144.9	143.5	106.4	89.9	-	95.4	93.9	62.2	45.0	-

See footnotes at end of table.

## ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>											
3532	Mining machinery .....	38.5	38.5	29.5	27.9	-	23.8	23.8	17.2	16.2	-
3533	Oil field machinery .....	124.7	126.4	90.8	86.7	-	86.7	88.3	58.6	55.2	-
3535	Conveyers and conveying equipment .....	35.1	35.0	31.7	30.2	-	19.7	19.5	16.8	15.7	-
3537	Industrial trucks and tractors .....	35.2	34.1	26.5	25.6	-	23.3	22.2	15.8	14.9	-
354	Metalworking machinery .....	364.5	361.0	306.8	297.0	-	263.9	259.9	212.3	204.5	-
3541	Machine tools, metal cutting types .....	78.8	76.5	57.1	53.7	-	50.8	49.0	33.5	31.2	-
3542	Machine tools, metal forming types .....	24.5	24.4	18.8	18.2	-	15.3	15.3	11.1	10.4	-
3544	Special dies, tools, jigs, and fixtures .....	137.5	136.4	125.6	123.8	-	109.0	107.9	97.1	95.5	-
3545	Machine tool accessories .....	68.9	65.0	58.2	56.0	-	48.5	48.5	38.2	36.6	-
3546	Power driven hand tools .....	30.4	30.3	25.5	24.4	-	23.3	23.1	18.5	17.6	-
355	Special industry machinery .....	195.6	194.8	175.5	171.8	-	124.1	122.7	106.6	103.6	-
3551	Food products machinery .....	43.1	42.8	40.8	40.3	-	27.5	27.2	25.9	25.9	-
3552	Textile machinery .....	25.3	25.4	21.8	21.4	-	17.4	17.3	14.4	14.2	-
3555	Printing trades machinery .....	38.7	38.9	37.9	37.2	-	24.3	24.3	22.3	21.7	-
356	General industrial machinery .....	320.5	318.1	268.2	260.1	-	207.1	205.3	166.0	159.0	-
3561	Pumps and pumping equipment .....	63.1	62.5	54.1	52.5	-	37.1	36.5	30.7	29.4	-
3562	Ball and roller bearings .....	55.3	55.1	44.2	41.9	-	42.4	42.1	32.5	30.7	-
3563	Air and gas compressors .....	31.7	31.6	27.8	27.1	-	18.5	18.8	15.0	14.4	-
3564	Blowers and fans .....	39.6	38.6	35.9	35.1	-	24.9	24.0	22.1	21.3	-
3566	Speed changers, drives, and gears .....	27.6	27.3	19.6	18.8	-	18.2	17.9	12.4	11.7	-
3568	Power transmission equipment, nec .....	23.0	22.9	17.8	17.3	-	16.3	16.2	11.8	11.3	-
357	Office and computing machines .....	475.0	478.1	494.3	492.2	-	191.3	192.4	192.4	190.1	-
3573	Electronic computing equipment .....	400.9	404.5	425.3	423.1	-	151.9	153.2	157.2	155.3	-
358	Refrigeration and service machinery .....	176.6	173.2	157.4	152.6	-	123.9	120.7	106.4	102.5	-
3585	Refrigeration and heating equipment .....	120.9	117.2	103.7	99.4	-	85.7	82.4	71.3	67.7	-
359	Misc. machinery, except electrical .....	295.9	292.0	260.2	252.7	-	227.1	223.5	193.4	186.2	-
3592	Carburetors, pistons, rings, valves .....	38.2	36.9	34.8	32.1	-	30.6	29.4	26.9	24.4	-
3599	Machinery, except electrical, nec .....	257.7	255.1	225.4	220.6	-	196.5	194.1	166.5	161.8	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b> .....	<b>2,113.3</b>	<b>2,086.8</b>	<b>2,001.0</b>	<b>1,981.3</b>	<b>1,975.3</b>	<b>1,323.1</b>	<b>1,293.8</b>	<b>1,206.6</b>	<b>1,190.4</b>	<b>1,185.3</b>
361	Electric distributing equipment .....	122.4	121.5	106.2	105.8	-	87.0	86.0	74.5	73.8	-
3612	Transformers .....	55.0	54.4	47.6	46.8	-	39.0	38.4	34.1	33.1	-
3613	Switchgear and switchboard apparatus .....	67.4	67.1	58.6	59.0	-	48.0	47.6	40.4	40.7	-
362	Electrical industrial apparatus .....	241.8	236.1	202.9	196.9	-	171.5	166.9	139.7	134.9	-
3621	Motors and generators .....	125.1	122.0	103.2	100.6	-	95.9	93.1	77.7	75.5	-
3622	Industrial controls .....	71.9	69.8	62.3	61.3	-	43.7	42.4	36.9	36.3	-
363	Household appliances .....	162.4	145.3	143.3	140.9	-	127.7	114.7	110.9	108.5	-
3632	Household refrigerators and freezers .....	32.5	27.8	27.9	27.0	-	26.1	21.6	21.8	20.9	-
3633	Household laundry equipment .....	21.5	19.1	19.0	18.9	-	16.6	14.2	14.1	14.2	-
3634	Electric housewares and fans .....	53.3	51.4	48.4	48.0	-	43.0	40.8	37.5	37.1	-
364	Electric lighting and wiring equipment .....	202.8	201.0	184.7	182.9	-	148.8	146.9	134.4	132.9	-
3641	Electric lamps .....	33.1	32.9	30.5	30.5	-	28.9	28.8	26.6	26.7	-
3643	Current-carrying wiring devices .....	83.5	83.3	76.7	75.6	-	56.1	55.7	50.4	49.3	-
3644	Noncurrent-carrying wiring devices .....	20.8	20.7	17.8	17.6	-	15.0	15.0	12.9	12.6	-
3645	Residential lighting fixtures .....	24.6	24.1	22.3	22.6	-	18.7	18.2	16.8	17.3	-
365	Radio and TV receiving equipment .....	110.3	107.7	94.0	92.6	-	78.5	76.0	64.7	63.6	-
3651	Radio and TV receiving sets .....	84.1	82.6	73.0	71.3	-	57.8	56.6	49.4	48.0	-
366	Communication equipment .....	554.7	554.8	555.0	555.0	-	268.6	266.6	255.3	255.8	-
3661	Telephone and telegraph apparatus .....	152.1	149.1	138.8	137.8	-	101.5	98.6	87.9	86.3	-
3662	Radio and TV communication equipment .....	402.6	405.7	416.2	417.5	-	167.1	168.0	167.4	169.5	-
367	Electronic components and accessories .....	567.6	566.2	571.2	565.3	-	332.1	329.1	324.2	319.4	-
3671-3	Electronic tubes .....	44.2	43.5	43.7	43.3	-	26.9	26.2	26.6	26.3	-
3674	Semiconductors and related devices .....	224.8	225.0	232.0	230.5	-	91.8	90.5	92.3	91.4	-
3679	Electronic components, nec .....	225.8	225.7	228.4	225.3	-	157.5	157.5	155.2	152.5	-
369	Misc. electrical equipment and supplies .....	151.3	150.2	143.7	141.9	-	108.9	107.6	102.9	101.5	-
3691	Storage batteries .....	30.9	31.2	29.6	29.4	-	24.3	24.5	23.0	23.0	-
3694	Engine electrical equipment .....	62.4	61.1	56.4	55.7	-	48.4	47.2	44.1	43.4	-
37	<b>TRANSPORTATION EQUIPMENT</b> .....	<b>1,888.9</b>	<b>1,857.0</b>	<b>1,727.4</b>	<b>1,688.5</b>	<b>1,662.6</b>	<b>1,208.2</b>	<b>1,182.1</b>	<b>1,076.3</b>	<b>1,042.2</b>	<b>1,017.3</b>
371	Motor vehicles and equipment .....	793.9	765.2	708.1	677.2	-	592.4	567.3	523.4	495.9	-
3711	Motor vehicles and car bodies .....	359.7	341.1	318.3	306.0	-	254.8	238.5	225.3	214.4	-
3713	Truck and bus bodies .....	36.9	35.6	31.6	28.8	-	28.0	26.9	23.9	21.1	-
3714	Motor vehicle parts and accessories .....	365.3	358.3	331.5	315.6	-	285.3	279.1	255.1	241.2	-
3715	Truck trailers .....	27.0	25.5	21.5	21.4	-	20.6	19.2	15.1	15.1	-
372	Aircraft and parts .....	640.1	637.4	602.1	599.3	-	337.8	334.9	302.0	299.3	-
3721	Aircraft .....	341.1	339.2	317.9	316.6	-	164.7	162.4	141.7	140.9	-
3724	Aircraft engines and engine parts .....	159.3	155.1	150.1	149.4	-	91.3	91.3	84.3	83.2	-
3728	Aircraft equipment, nec .....	139.7	139.1	134.1	133.3	-	81.8	81.2	76.0	75.2	-
373	Ship and boat building and repairing .....	223.8	225.6	203.1	196.5	-	170.1	173.1	154.9	150.4	-
3731	Ship building and repairing .....	179.8	182.8	167.4	163.8	-	133.6	137.6	126.0	122.3	-
3732	Boat building and repairing .....	44.0	42.8	35.7	34.7	-	36.5	35.5	28.9	28.1	-
374	Railroad equipment .....	50.8	48.9	35.3	33.3	-	34.0	32.2	21.9	20.5	-
376	Guided missiles, space vehicles, parts .....	124.5	124.5	128.6	128.7	-	37.0	37.4	39.7	40.4	-
3761	Guided missiles and space vehicles .....	97.6	97.8	101.7	101.8	-	26.9	27.3	30.0	30.6	-

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>				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
379	Miscellaneous transportation equipment . . . . .	38.0	38.0	39.8	40.1	-	24.4	24.7	27.2	27.6	-
3792	Travel trailers and campers . . . . .	17.2	16.4	16.6	16.6	-	13.3	12.6	12.9	12.6	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS . . . . .</b>	<b>729.6</b>	<b>727.6</b>	<b>699.8</b>	<b>691.4</b>	<b>689.0</b>	<b>426.7</b>	<b>424.8</b>	<b>398.6</b>	<b>390.1</b>	<b>388.7</b>
381	Engineering and scientific instruments . . . . .	78.5	78.4	74.2	73.9	-	37.6	37.4	34.0	33.9	-
382	Measuring and controlling devices . . . . .	259.9	257.9	241.0	236.7	-	161.9	160.3	144.9	141.3	-
3822	Environmental controls . . . . .	47.6	45.6	41.9	40.4	-	31.4	29.7	27.1	26.1	-
3823	Process control instruments . . . . .	62.1	62.2	55.3	55.1	-	32.5	32.4	27.6	27.4	-
3825	Instruments to measure electricity . . . . .	104.3	104.2	102.9	101.8	-	66.1	66.4	62.4	61.3	-
383	Optical instruments and lenses . . . . .	33.1	33.1	32.1	32.1	-	18.6	18.5	17.3	17.5	-
384	Medical instruments and supplies . . . . .	161.3	162.0	160.3	159.4	-	100.5	100.9	97.7	97.1	-
3841	Surgical and medical instruments . . . . .	76.1	76.5	78.3	77.7	-	45.6	45.6	45.0	44.5	-
3842	Surgical appliances and supplies . . . . .	69.1	69.3	67.1	67.0	-	45.0	45.3	43.8	43.9	-
385	Ophthalmic goods . . . . .	39.1	38.4	35.4	34.1	-	27.5	27.3	24.1	23.2	-
386	Photographic equipment and supplies . . . . .	137.3	138.3	138.1	136.8	-	65.6	66.3	67.3	64.3	-
387	Watches, clocks, and watchcases . . . . .	20.4	19.5	18.7	18.4	-	15.0	14.1	13.3	12.7	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES . . . . .</b>	<b>425.0</b>	<b>421.5</b>	<b>391.9</b>	<b>385.3</b>	<b>384.0</b>	<b>316.0</b>	<b>313.2</b>	<b>284.9</b>	<b>282.4</b>	<b>277.4</b>
391	Jewelry, silverware, and plated ware . . . . .	60.3	60.8	59.6	61.2	-	43.4	43.7	42.2	43.7	-
3911	Jewelry, precious metal . . . . .	39.5	40.3	38.3	35.4	-	28.0	28.6	27.1	28.0	-
393	Musical instruments . . . . .	21.7	21.2	19.1	19.2	-	17.4	17.1	15.1	15.1	-
394	Toys and sporting goods . . . . .	123.8	120.8	109.0	105.4	-	94.7	92.4	80.7	77.7	-
3942, 4	Dolls, games, toys, and children's vehicles . . . . .	65.9	62.6	56.2	53.6	-	49.5	46.7	40.4	39.4	-
3949	Sporting and athletic goods, nec . . . . .	57.9	58.2	52.8	51.8	-	45.2	45.7	40.3	39.3	-
395	Pens, pencils, office and art supplies . . . . .	37.7	37.3	33.8	32.9	-	26.8	26.6	23.2	22.3	-
396	Costume jewelry and notions . . . . .	47.0	47.4	41.6	42.7	-	36.1	36.4	32.2	33.1	-
3961	Costume jewelry . . . . .	24.9	25.7	22.9	23.4	-	19.4	20.1	18.2	18.6	-
399	Miscellaneous manufactures . . . . .	134.5	134.0	128.8	127.9	-	97.6	97.0	91.5	90.5	-
3993	Signs and advertising displays . . . . .	47.3	47.4	46.0	45.3	-	34.3	34.3	32.6	32.0	-
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS . . . . .</b>	<b>1,719.4</b>	<b>1,680.8</b>	<b>1,732.9</b>	<b>1,702.5</b>	<b>1,656.1</b>	<b>1,197.6</b>	<b>1,161.1</b>	<b>1,215.7</b>	<b>1,186.5</b>	<b>1,140.6</b>
201	Meat products . . . . .	353.9	354.9	343.1	340.3	-	296.0	297.5	286.4	283.6	-
2011	Meat packing plants . . . . .	154.2	153.8	144.5	142.3	-	126.7	126.8	118.5	116.3	-
2013	Sausages and other prepared meats . . . . .	69.7	70.2	65.3	68.0	-	52.0	52.5	51.3	49.7	-
2016	Poultry dressing plants . . . . .	116.1	116.6	115.7	116.6	-	105.3	105.9	104.6	105.7	-
202	Dairy products . . . . .	168.4	167.2	168.5	166.2	-	93.0	91.8	95.0	92.6	-
2022	Cheese, natural and processed . . . . .	34.7	34.5	34.9	34.7	-	26.5	26.1	26.6	26.4	-
2026	Fluid milk . . . . .	55.6	54.9	53.4	52.9	-	42.8	42.2	42.4	41.8	-
203	Preserved fruits and vegetables . . . . .	266.1	235.7	307.1	271.5	-	224.2	195.4	264.7	229.5	-
2032	Canned specialties . . . . .	26.3	25.7	27.7	26.9	-	20.2	19.4	20.9	20.2	-
2033	Canned fruits and vegetables . . . . .	103.3	80.1	140.5	103.9	-	88.2	65.8	123.8	88.3	-
2037	Frozen fruits and vegetables . . . . .	55.0	51.6	60.0	55.3	-	48.0	45.4	53.8	52.0	-
204	Grain mill products . . . . .	140.8	139.2	137.1	137.7	-	97.2	95.7	93.2	93.8	-
2041	Flour and other grain mill products . . . . .	26.5	26.4	26.7	26.6	-	16.2	16.1	16.4	16.7	-
2048	Prepared feeds, nec . . . . .	53.6	53.4	52.0	52.4	-	35.0	34.6	33.1	33.6	-
205	Bakery products . . . . .	219.5	219.5	218.5	218.0	-	128.1	128.2	128.6	129.3	-
2051	Bread, cake, and related products . . . . .	176.8	176.6	176.0	175.3	-	93.8	94.0	94.3	93.8	-
2052	Cookies and crackers . . . . .	42.7	42.9	42.5	42.7	-	34.3	34.2	34.3	34.5	-
206	Sugar and confectionery products . . . . .	122.9	120.2	108.7	121.8	-	97.2	94.9	84.6	96.8	-
2061-3	Cane and beet sugar . . . . .	40.8	37.7	29.2	38.8	-	32.4	29.5	22.1	31.0	-
2065	Confectionery products . . . . .	62.1	62.6	58.1	61.6	-	51.2	51.9	47.7	50.9	-
207	Fats and oils . . . . .	44.2	45.1	42.2	43.8	-	33.3	34.1	31.5	33.2	-
208	Beverages . . . . .	233.8	233.3	235.4	232.9	-	101.2	100.1	101.9	100.5	-
2082	Malt beverages . . . . .	48.7	48.7	47.7	46.4	-	30.8	30.7	30.4	29.5	-
2086	Bottled and canned soft drinks . . . . .	137.1	137.3	140.8	138.9	-	44.4	44.4	46.0	44.8	-
209	Misc. foods and kindred products . . . . .	169.8	165.7	172.3	170.3	-	127.4	123.4	129.8	128.2	-
21	<b>TOBACCO MANUFACTURES . . . . .</b>	<b>75.0</b>	<b>73.1</b>	<b>68.3</b>	<b>67.9</b>	<b>64.4</b>	<b>59.6</b>	<b>57.8</b>	<b>54.1</b>	<b>53.7</b>	<b>49.8</b>
211	Cigarettes . . . . .	46.6	47.4	44.3	44.3	-	35.3	36.2	33.7	33.6	-
22	<b>TEXTILE MILL PRODUCTS . . . . .</b>	<b>816.4</b>	<b>809.1</b>	<b>739.9</b>	<b>737.2</b>	<b>729.8</b>	<b>706.0</b>	<b>697.6</b>	<b>634.7</b>	<b>633.0</b>	<b>626.3</b>
221	Weaving mills, cotton . . . . .	139.0	139.5	120.1	121.1	-	123.6	124.1	105.6	106.8	-
222	Weaving mills, synthetics . . . . .	108.5	105.3	95.2	94.0	-	97.1	97.7	84.8	83.7	-
223	Weaving and finishing mills, wool . . . . .	18.5	18.4	15.8	15.6	-	15.5	15.3	13.1	13.0	-
224	Narrow fabric mills . . . . .	24.1	23.8	22.2	22.2	-	21.3	20.8	19.2	19.1	-
225	Knitting mills . . . . .	217.4	212.9	206.4	205.7	-	187.9	183.5	178.6	177.6	-
2251	Women's hosiery, except socks . . . . .	31.9	32.0	31.1	30.8	-	28.6	28.6	27.9	27.6	-
2252	Hosiery, nec . . . . .	33.2	32.6	31.3	31.1	-	30.2	29.7	28.3	28.2	-
2253	Knit outerwear mills . . . . .	73.9	72.9	71.7	72.7	-	62.6	61.8	61.8	62.7	-
2254	Knit underwear mills . . . . .	29.6	29.4	28.2	27.9	-	25.6	25.2	23.8	23.4	-

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>				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
<b>TEXTILE MILL PRODUCTS—Continued</b>											
2257	Circular knit fabric mills	27.9	25.8	24.8	24.6	-	23.5	21.6	20.7	20.5	-
226	Textile finishing, except wool	70.6	70.1	64.0	64.1	-	59.0	58.2	52.6	52.9	-
2261	Finishing plants, cotton	29.8	29.7	26.6	27.2	-	24.6	24.2	21.6	22.4	-
2262	Finishing plants, synthetics	26.8	26.7	23.7	23.5	-	22.4	22.3	19.6	19.5	-
227	Floor covering mills	52.5	51.7	47.3	47.2	-	42.1	41.1	37.1	37.1	-
228	Yarn and thread mills	119.7	118.7	110.1	109.7	-	107.5	106.3	97.9	97.9	-
2281	Yarn mills, except wool	80.5	80.1	75.9	76.6	-	73.4	72.7	68.6	69.2	-
2282	Throwing and winding mills	19.9	15.7	18.0	17.7	-	17.6	17.4	15.8	15.5	-
229	Miscellaneous textile goods	66.1	64.7	58.8	57.6	-	52.0	50.6	45.8	44.9	-
	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	<b>1,257.9</b>	<b>1,243.5</b>	<b>1,160.0</b>	<b>1,157.4</b>	<b>1,142.4</b>	<b>1,071.1</b>	<b>1,057.2</b>	<b>982.2</b>	<b>977.2</b>	<b>963.5</b>
23	Men's and boys' suits and coats	77.7	78.6	74.2	72.2	-	67.8	68.3	65.0	63.0	-
232	Men's and boys' furnishings	351.3	349.4	325.0	324.5	-	299.8	297.9	275.9	275.7	-
2321	Men's and boys' shirts and nightwear	99.4	97.8	90.6	90.5	-	85.7	84.0	77.4	77.1	-
2327	Men's and boys' separate trousers	71.2	72.4	66.3	66.4	-	62.1	63.0	57.6	57.5	-
2328	Men's and boys' work clothing	100.3	100.0	95.0	95.6	-	82.8	83.0	79.0	79.8	-
233	Women's and misses' outerwear	409.5	401.8	374.9	376.4	-	352.1	345.4	320.1	320.4	-
2331	Women's and misses' blouses and waists	62.9	62.3	59.6	60.2	-	54.7	54.2	51.3	51.7	-
2335	Women's and misses' dresses	136.1	133.2	126.6	126.0	-	119.7	117.3	110.1	103.7	-
2337	Women's and misses' suits and coats	62.8	55.2	55.8	56.1	-	53.7	50.3	47.7	47.6	-
2339	Women's and misses' outerwear, nec.	147.7	147.1	132.9	134.1	-	124.0	123.6	111.0	112.4	-
234	Women's and children's undergarments	93.2	92.3	85.9	86.0	-	79.5	78.8	72.8	72.6	-
2341	Women's and children's underwear	74.7	73.9	71.0	70.9	-	65.1	64.5	61.6	61.2	-
2342	Brassieres and allied garments	18.5	18.4	14.9	15.1	-	14.4	14.3	11.2	11.4	-
236	Children's outerwear	63.9	63.9	58.6	59.3	-	53.8	54.2	49.6	50.3	-
2361	Children's dresses and blouses	27.5	27.6	25.5	26.0	-	24.3	24.6	22.8	23.2	-
238	Misc. apparel and accessories	58.8	57.2	52.1	51.8	-	49.9	48.2	43.7	43.2	-
239	Misc. fabricated textile products	180.5	177.5	167.7	165.7	-	148.3	144.9	137.2	134.6	-
2391	Curtains and draperies	28.5	28.1	25.8	25.5	-	23.8	23.5	21.0	20.8	-
2392	House furnishings, nec.	51.6	51.6	47.9	48.7	-	42.4	42.6	40.0	40.5	-
2396	Automotive and apparel trimmings	31.0	28.9	28.2	26.2	-	25.8	23.4	23.1	21.0	-
	<b>PAPER AND ALLIED PRODUCTS</b>	<b>666.4</b>	<b>681.1</b>	<b>659.0</b>	<b>649.8</b>	<b>650.7</b>	<b>516.0</b>	<b>511.9</b>	<b>494.0</b>	<b>484.2</b>	<b>485.5</b>
26	Paper and pulp mills	201.4	201.6	195.2	192.7	-	151.2	151.6	147.6	144.7	-
262	Paper mills, except building paper	173.7	173.9	169.1	166.8	-	129.1	129.4	126.5	124.0	-
263	Paperboard mills	62.7	61.6	60.2	57.2	-	49.3	48.5	46.8	44.0	-
264	Misc. converted paper products	220.4	217.9	212.3	205.7	-	161.4	159.3	154.1	151.4	-
2641	Paper coating and glazing	55.7	56.2	54.9	54.4	-	35.7	36.0	34.8	34.3	-
2642	Envelopes	25.4	25.5	24.7	24.5	-	19.8	19.9	19.0	18.8	-
2643	Bags, except textile bags	50.4	50.4	48.6	48.9	-	39.2	39.2	37.9	38.1	-
265	Paperboard containers and boxes	201.9	200.0	191.3	190.2	-	154.1	152.5	145.5	144.1	-
2651	Folding paperboard boxes	43.2	43.1	42.1	41.7	-	33.6	33.4	32.8	32.5	-
2653	Corrugated and solid fiber boxes	103.6	102.3	97.4	97.4	-	76.4	75.4	72.0	71.6	-
2654	Sanitary food containers	24.6	24.2	24.0	23.6	-	19.9	19.5	19.2	18.8	-
	<b>PRINTING AND PUBLISHING</b>	<b>1,274.5</b>	<b>1,279.4</b>	<b>1,265.4</b>	<b>1,267.7</b>	<b>1,269.7</b>	<b>700.5</b>	<b>703.0</b>	<b>693.5</b>	<b>694.4</b>	<b>694.7</b>
27	Newspapers	425.4	426.9	423.3	424.2	-	162.5	163.0	160.6	161.9	-
272	Periodicals	58.1	55.3	100.3	101.0	-	19.8	20.1	21.7	21.3	-
273	Books	97.2	58.6	94.9	54.1	-	47.7	49.2	47.0	46.3	-
2731	Book publishing	69.0	69.8	67.3	67.1	-	24.9	25.8	24.9	24.8	-
2732	Book printing	28.2	28.8	27.6	27.0	-	22.8	23.4	22.1	21.5	-
274	Miscellaneous publishing	47.7	48.3	48.2	48.5	-	24.9	25.7	24.8	25.5	-
275	Commercial printing	422.1	422.9	416.1	418.0	-	310.1	311.0	305.7	306.8	-
2751	Commercial printing, letterpress	157.0	156.6	151.3	151.6	-	115.9	115.4	112.6	112.6	-
2752	Commercial printing, lithographic	242.4	245.3	242.5	244.2	-	176.3	177.2	175.4	176.5	-
276	Manifold business forms	49.5	45.6	48.8	49.0	-	34.5	34.7	34.3	34.2	-
278	Blankbooks and bookbinding	63.3	62.7	62.6	61.7	-	51.7	50.7	50.9	50.1	-
279	Printing trade services	45.0	45.2	45.0	45.6	-	33.1	33.2	33.2	34.0	-
	<b>CHEMICALS AND ALLIED PRODUCTS</b>	<b>1,104.4</b>	<b>1,100.1</b>	<b>1,066.0</b>	<b>1,058.0</b>	<b>1,058.9</b>	<b>623.3</b>	<b>617.8</b>	<b>592.7</b>	<b>585.1</b>	<b>589.0</b>
28	Industrial inorganic chemicals	158.6	155.3	151.5	150.2	-	86.4	86.7	80.3	79.0	-
281	Industrial inorganic chemicals, nec.	104.1	104.3	99.9	99.1	-	56.5	56.7	53.5	52.5	-
282	Plastics materials and synthetics	192.6	189.4	179.7	178.6	-	126.3	123.1	116.1	115.4	-
2821	Plastics materials and resins	78.1	78.3	73.0	73.2	-	45.9	44.4	42.6	42.5	-
2824	Organic fibers, noncellulosic	81.7	81.4	75.8	74.9	-	57.2	57.0	52.8	52.4	-
283	Drugs	200.3	199.9	195.4	195.4	-	99.9	99.4	96.9	96.6	-
2834	Pharmaceutical preparations	158.3	157.9	156.7	157.2	-	77.5	76.9	74.9	74.7	-
284	Soap, cleaners, and toilet goods	146.6	146.6	148.3	144.9	-	92.5	91.9	94.2	91.2	-
2841	Soap and other detergents	44.1	44.3	45.3	45.2	-	29.2	29.0	29.7	29.5	-
2844	Toilet preparations	63.2	63.4	63.5	60.8	-	42.1	42.0	43.1	40.5	-
2842, 3	Polishing, sanitation, and finishing preparations	39.3	38.9	39.5	38.9	-	21.2	20.9	21.4	21.2	-
285	Paints and allied products	63.1	61.1	59.7	58.9	-	30.9	29.6	29.0	28.3	-
286	Industrial organic chemicals	179.2	179.3	172.5	171.6	-	89.8	89.8	86.9	86.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>											
2865	Cyclic crudes and intermediates .....	37.8	37.5	35.2	34.7	-	23.4	23.2	21.6	21.4	-
2861.9	Gum, wood, and industrial organic chemicals, nec .....	141.4	141.8	137.3	136.9	-	66.4	66.6	65.3	64.8	-
287	Agricultural chemicals .....	69.7	70.2	64.2	64.1	-	43.3	43.5	38.2	38.1	-
289	Miscellaneous chemical products .....	94.3	94.3	91.1	90.3	-	54.2	53.8	51.1	50.3	-
<b>PETROLEUM AND COAL PRODUCTS</b> .....											
29		216.8	215.9	211.4	209.4	206.3	134.5	133.0	128.0	127.0	125.5
291	Petroleum refining .....	175.0	175.3	170.4	168.9	-	104.7	104.3	98.7	98.1	-
295	Paving and roofing materials .....	29.6	28.5	29.3	28.8	-	22.4	21.3	22.3	21.8	-
<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....											
30		740.0	730.5	700.8	689.1	681.0	572.1	562.3	538.8	527.8	521.6
301	Tires and inner tubes .....	106.6	106.7	101.2	95.6	-	73.9	74.1	72.4	71.4	-
302	Rubber and plastics footwear .....	20.5	22.6	21.1	21.5	-	17.9	19.9	18.3	18.3	-
303.4	Reclaimed rubber, and rubber and plastics hose and belting .....	24.0	23.2	19.9	19.4	-	17.0	16.3	13.7	13.4	-
306	Fabricated rubber products, nec .....	105.7	103.4	95.3	92.8	-	82.5	80.0	72.6	70.4	-
307	Miscellaneous plastics products .....	483.2	474.6	463.3	455.8	-	380.8	372.0	361.8	354.3	-
<b>LEATHER AND LEATHER PRODUCTS</b> .....											
31		235.8	232.4	209.4	207.1	206.0	200.8	197.5	175.5	173.1	172.1
311	Leather tanning and finishing .....	21.1	19.8	18.2	17.9	-	17.8	16.5	15.0	14.7	-
314	Footwear, except rubber .....	142.5	140.9	129.3	127.6	-	123.4	122.0	110.5	108.7	-
3143	Men's footwear, except athletic .....	58.3	58.1	50.3	49.8	-	50.2	50.0	41.4	40.8	-
3144	Women's footwear, except athletic .....	51.4	50.5	49.0	48.2	-	44.4	43.8	43.2	42.3	-
316	Luggage .....	14.3	14.4	12.4	12.4	-	11.1	11.3	9.0	9.0	-
317	Handbags and personal leather goods .....	31.9	31.2	26.8	26.4	-	26.2	25.5	21.9	21.6	-
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....											
		5,208	5,188	5,076	5,054	5,044	4,318	4,296	4,197	4,172	4,167
<b>RAILROAD TRANSPORTATION</b> .....											
40		493.2	483.1	425.2	418.0	-	-	-	-	-	-
4011	Class I railroads <sup>2</sup> .....	454.1	445.6	391.6	385.5	-	-	-	-	-	-
<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....											
41		289.8	287.3	294.3	254.9	-	269.7	267.5	275.6	275.9	-
411	Local and suburban transportation .....	82.8	82.0	85.4	65.2	-	75.3	74.7	78.8	78.4	-
412	Taxis .....	46.3	46.5	43.5	43.5	-	-	-	-	43.5	-
413	Intercity highway transportation .....	37.7	36.9	38.5	36.5	-	34.5	33.8	35.7	33.6	-
415	School buses .....	103.9	103.5	108.3	110.6	-	-	-	-	-	-
<b>TRUCKING AND WAREHOUSING</b> .....											
42		1,268.0	1,266.0	1,219.1	1,219.8	-	1,106.2	1,104.3	1,060.6	1,060.5	-
421.3	Trucking and trucking terminals .....	1,175.5	1,172.4	1,133.7	1,128.6	-	1,027.6	1,024.7	988.9	983.1	-
422	Public warehousing .....	92.5	93.6	85.4	91.2	-	78.6	79.6	71.7	77.4	-
<b>WATER TRANSPORTATION</b> .....											
44		214.5	212.9	193.9	167.6	-	-	-	-	-	-
<b>TRANSPORTATION BY AIR</b> .....											
45		451.3	447.6	443.0	440.7	-	-	-	-	-	-
451.2	Air transportation .....	399.9	396.7	391.1	385.8	-	-	-	-	-	-
<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....											
46		22.0	22.1	22.3	22.2	-	15.2	15.2	15.4	15.4	-
<b>TRANSPORTATION SERVICES</b> .....											
47		219.5	217.5	223.3	223.7	-	-	-	-	-	-
<b>COMMUNICATION</b> .....											
48		1,393.8	1,394.7	1,382.8	1,377.9	-	1,039.3	1,040.2	1,049.6	1,044.6	-
481	Telephone communication .....	1,078.9	1,078.8	1,052.1	1,045.7	-	781.5	780.7	776.4	770.1	-
483	Radio and television broadcasting .....	209.5	210.9	218.2	218.1	-	170.0	171.4	178.1	178.0	-
<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....											
49		855.7	856.3	872.1	865.5	-	699.8	700.5	703.4	699.4	-
491	Electric services .....	406.7	407.1	417.3	417.9	-	328.5	328.9	330.9	330.8	-
492	Gas production and distribution .....	174.7	175.1	179.4	178.2	-	141.7	141.7	143.9	142.6	-
493	Combination utility services .....	199.5	199.5	197.8	197.0	-	165.0	165.4	162.0	160.7	-
495	Sanitary services .....	51.5	51.3	54.2	53.3	-	45.4	45.3	47.5	46.7	-
<b>WHOLESALE AND RETAIL TRADE</b> .....											
		20,731	20,683	20,573	20,519	20,636	18,138	18,280	17,961	17,918	18,026
<b>WHOLESALE TRADE</b> .....											
50,51		5,400	5,398	5,277	5,272	5,253	4,392	4,387	4,257	4,253	4,236
<b>WHOLESALE TRADE - DURABLE GOODS</b> .....											
50		3,194	3,193	3,098	3,086	-	2,588	2,585	2,481	2,468	-
501	Motor vehicles and automotive equipment .....	414.8	412.1	412.6	412.5	-	335.3	332.8	331.9	331.9	-
502	Furniture and home furnishing .....	118.9	120.5	117.3	116.4	-	97.2	98.9	97.5	97.7	-
503	Lumber and construction materials .....	188.4	187.7	182.9	182.6	-	155.0	154.6	149.2	148.9	-
504	Sporting goods, toys, and hobby goods .....	71.8	72.0	72.3	72.4	-	57.4	57.6	58.4	58.4	-
505	Metals and minerals, except petroleum .....	152.4	151.4	134.5	133.1	-	122.4	121.4	106.0	104.7	-
506	Electrical goods .....	436.7	439.7	432.6	430.8	-	351.2	354.8	345.9	343.1	-
507	Hardware, plumbing, and heating equipment .....	243.4	242.6	236.0	236.6	-	198.0	197.3	190.0	190.7	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
<b>WHOLESALE TRADE-DURABLE GOODS—</b>											
<b>Continued</b>											
508	Machinery, equipment, and supplies .....	1,363.3	1,366.0	1,334.4	1,326.0	-	1,099.1	1,098.0	1,058.6	1,049.3	-
509	Miscellaneous durable goods .....	204.0	200.9	175.3	175.9	-	171.9	169.2	144.6	143.2	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> ..	2,206	2,205	2,179	2,166	-	1,804	1,802	1,776	1,735	-
511	Paper and paper products .....	155.7	157.0	158.0	158.2	-	125.7	126.8	127.2	127.3	-
512	Drugs, proprietaries, and sundries .....	151.4	152.0	153.9	154.7	-	126.0	128.6	129.9	130.4	-
513	Apparel, piece goods, and notions .....	169.3	169.9	169.8	171.2	-	133.1	133.8	132.5	134.0	-
514	Groceries and related products.....	667.2	666.0	653.0	650.6	-	573.7	572.7	560.8	558.2	-
516	Chemicals and allied products .....	133.5	134.1	136.2	135.9	-	96.2	95.8	96.4	96.1	-
517	Petroleum and petroleum products .....	233.2	232.5	229.2	227.4	-	175.5	174.8	171.4	170.4	-
518	Beer, wine, and distilled beverages .....	141.1	142.9	145.6	145.0	-	118.1	119.4	121.2	120.4	-
519	Miscellaneous nondurable goods .....	359.5	357.6	396.8	398.0	-	323.9	322.8	323.8	325.1	-
52-59	<b>RETAIL TRADE</b> .....	15,331	15,465	15,296	15,247	15,383	13,746	13,893	13,704	13,665	13,790
52	<b>BUILDING MATERIALS AND GARDEN</b>										
	<b>SUPPLIES</b> .....	607.6	599.5	590.7	593.0	-	511.7	504.7	497.2	499.5	-
521	Lumber and other building materials .....	317.6	312.4	309.7	309.5	-	268.7	263.6	261.4	261.1	-
525	Hardware stores .....	149.6	145.4	145.7	147.0	-	127.3	127.4	124.3	125.5	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	2,262.2	2,356.1	2,207.0	2,238.3	-	2,061.6	2,157.3	2,048.3	2,077.4	-
531	Department stores .....	1,900.9	1,983.9	1,854.0	1,882.7	-	1,735.9	1,820.6	1,729.7	1,757.7	-
533	Variety stores .....	232.3	237.2	220.8	222.9	-	215.5	220.5	203.9	205.1	-
539	Misc. general merchandise stores .....	129.0	135.0	132.2	132.7	-	110.2	116.2	114.7	114.6	-
54	<b>FOOD STORES</b> .....	2,447.3	2,474.1	2,475.5	2,477.6	-	2,274.9	2,295.2	2,295.8	2,298.9	-
541	Grocery stores .....	2,148.0	2,166.4	2,175.4	2,178.1	-	2,003.0	2,017.7	2,024.2	2,028.5	-
542	Meat markets and freezer provisioners .....	54.8	55.9	55.6	54.8	-	-	-	-	-	-
546	Retail bakeries .....	127.9	128.6	127.6	129.0	-	117.9	118.5	117.2	118.3	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE</b>										
	<b>STATIONS</b> .....	1,652.9	1,642.9	1,643.7	1,634.4	-	1,402.0	1,391.5	1,384.4	1,376.0	-
551.2	New and used car dealers .....	747.5	740.8	736.2	734.9	-	611.5	605.2	603.6	602.3	-
553	Auto and home supply stores .....	272.1	272.0	276.7	275.5	-	236.9	235.5	237.9	237.0	-
554	Gasoline service stations .....	556.5	555.6	550.3	544.2	-	487.7	487.7	478.8	473.1	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	966.4	998.3	956.7	960.6	-	826.2	856.9	810.0	814.8	-
561	Men's and boys' clothing and furnishings .....	128.0	131.3	123.7	124.9	-	108.9	112.3	104.3	105.9	-
562	Women's ready-to-wear stores .....	351.3	365.3	344.7	346.6	-	304.7	315.9	295.7	297.9	-
565	Family clothing stores .....	177.7	187.0	176.5	176.6	-	155.5	164.5	153.6	153.6	-
566	Shoe stores .....	203.6	207.7	209.5	207.4	-	166.5	170.6	169.2	167.3	-
57	<b>FURNITURE AND HOME FURNISHINGS</b>										
	<b>STORES</b> .....	603.8	609.9	586.5	589.9	-	498.9	505.6	482.4	486.5	-
571	Furniture and home furnishings stores .....	373.8	374.7	360.3	362.0	-	309.6	310.7	297.2	298.7	-
572	Household appliance stores .....	80.6	82.6	76.8	79.1	-	68.5	70.1	67.1	67.2	-
573	Radio, television, and music stores .....	149.4	152.6	147.4	148.8	-	120.8	124.8	119.1	120.6	-
58	<b>EATING AND DRINKING PLACES</b> .....	4,792.0	4,758.1	4,668.4	4,768.1	-	4,420.5	4,384.2	4,474.9	4,582.6	-
59	<b>MISCELLANEOUS RETAIL</b> .....	1,998.3	2,046.5	1,967.2	1,965.2	-	1,749.9	1,797.3	1,710.1	1,723.9	-
591	Drug stores and proprietary stores .....	503.6	509.4	493.8	452.9	-	454.1	460.6	441.1	440.0	-
592	Liquor stores .....	136.6	138.0	134.5	135.0	-	-	-	-	-	-
594	Miscellaneous shopping goods stores.....	634.9	655.2	641.6	645.1	-	547.2	571.2	548.0	555.7	-
596	Nonstore retailers .....	286.7	299.2	275.1	280.5	-	266.1	278.5	254.7	260.2	-
598	Fuel and ice dealers .....	103.8	105.0	100.2	102.6	-	86.5	87.8	82.5	85.0	-
599	Retail stores, nec. ....	269.8	273.2	259.6	261.6	-	226.4	228.9	217.3	219.1	-
-	<b>FINANCE, INSURANCE, AND REAL</b>										
	<b>ESTATE</b> <sup>3</sup> .....	5,314	5,308	5,367	5,347	5,348	4,010	3,999	4,014	3,993	3,984
60	<b>BANKING</b> .....	1,633.0	1,638.9	1,647.2	1,642.4	-	1,245.9	1,248.2	1,232.2	1,228.0	-
602	Commercial and stock savings banks .....	1,487.9	1,493.5	1,501.4	1,456.1	-	1,129.2	1,131.5	1,116.0	1,111.6	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	582.4	581.6	585.8	587.0	-	441.7	441.1	441.7	442.5	-
612	Savings and loan associations .....	265.1	267.0	274.5	276.2	-	200.8	202.5	209.2	210.7	-
614	Personal credit institutions .....	200.4	198.6	192.5	192.0	-	154.9	153.4	146.4	145.8	-
62	<b>SECURITY, COMMODITY BROKERS, AND</b>										
	<b>SERVICES</b> .....	268.2	270.5	278.3	280.5	-	-	-	-	-	-
621	Security brokers and dealers .....	221.8	223.6	231.9	234.2	-	-	-	-	-	-
63	<b>INSURANCE CARRIERS</b> .....	1,227.2	1,226.5	1,220.7	1,220.0	-	846.0	844.3	831.8	830.5	-
631	Life insurance .....	538.2	538.6	539.5	538.7	-	334.2	334.7	331.1	330.5	-

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>					
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	
	<b>INSURANCE CARRIERS—Continued</b>											
632	Medical service and health insurance .....	141.6	141.4	140.7	141.6	-	111.9	112.0	111.8	112.7	-	
633	Fire, marine, and casualty insurance .....	473.8	474.0	468.9	468.0	-	342.5	341.4	333.9	332.0	-	
64	<b>INSURANCE AGENTS, BROKERS, AND SERVICE</b>	469.0	470.1	476.0	477.3	-	-	-	-	-	-	
65	<b>REAL ESTATE</b>	992.1	979.2	1,008.5	985.2	-	-	-	-	-	-	
651	Real estate operators and lessors .....	471.0	466.8	490.2	481.1	-	-	-	-	-	-	
653	Real estate agents and managers .....	373.9	370.6	376.8	370.6	-	-	-	-	-	-	
655	Subdividers and developers .....	127.8	122.8	123.7	120.4	-	-	-	-	-	-	
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC.</b>	19.2	19.2	19.1	19.0	-	-	-	-	-	-	
67	<b>HOLDING AND OTHER INVESTMENT OFFICES.</b>	122.4	122.2	131.4	131.4	-	-	-	-	-	-	
-	<b>SERVICES</b>	18,824	18,800	19,122	19,144	19,108	16,748	16,717	16,954	16,975	16,935	
70	<b>HOTELS AND OTHER LODGING PLACES</b>	1,106.7	1,073.8	1,119.0	1,071.7	-	-	-	-	-	-	
701	Hotels, motels, and tourist courts .....	1,073.8	1,042.9	1,075.3	1,038.3	-	980.9	951.8	982.9	950.6	-	
72	<b>PERSONAL SERVICES</b>	907.1	908.7	917.2	922.1	-	-	-	-	-	-	
721	Laundry, cleaning, and garment services .....	352.8	354.3	348.7	350.1	-	315.2	316.7	310.6	311.8	-	
723	Beauty shops .....	286.2	286.6	297.7	297.7	-	264.6	263.9	274.8	275.3	-	
726	Funeral service and crematories .....	71.1	70.9	74.7	74.1	-	-	-	-	-	-	
73	<b>BUSINESS SERVICES</b>	3,337.6	3,329.3	3,322.8	3,331.4	-	2,918.0	2,913.9	2,895.2	2,905.7	-	
731	Advertising .....	155.3	156.0	159.5	158.6	-	119.4	120.4	122.2	121.5	-	
732	Credit reporting and collection .....	75.8	75.6	75.8	76.1	-	-	-	-	-	-	
733	Mailing, reproduction, stenographic .....	133.6	134.0	131.5	133.0	-	-	-	-	-	-	
734	Services to buildings .....	522.6	522.2	537.9	537.0	-	474.7	475.0	489.3	488.9	-	
736	Personnel supply services .....	625.1	603.8	565.2	556.8	-	-	-	-	-	-	
737	Computer and data processing services .....	345.1	348.4	356.9	359.8	-	282.1	285.5	292.2	294.4	-	
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b>	575.8	578.2	582.8	581.1	-	491.6	492.3	491.7	491.3	-	
753	Automotive repair shops .....	356.3	356.8	363.7	362.9	-	301.5	301.0	303.5	303.4	-	
76	<b>MISCELLANEOUS REPAIR SERVICES</b>	301.5	299.9	292.4	292.9	-	255.0	253.5	246.2	247.3	-	
78	<b>MOTION PICTURES</b>	217.2	217.0	214.8	206.8	-	187.4	185.7	184.6	176.7	-	
781	Motion picture production and services .....	85.2	85.7	77.2	78.6	-	69.7	72.7	62.1	63.2	-	
783	Motion picture theaters .....	121.0	116.2	127.2	117.7	-	-	-	-	-	-	
79	<b>AMUSEMENT AND RECREATION SERVICES</b>	750.7	725.6	657.8	605.2	-	676.7	651.3	614.0	622.0	-	
80	<b>HEALTH SERVICES</b>	5,635.9	5,654.2	5,822.0	5,835.2	-	5,046.3	5,058.9	5,215.8	5,222.7	-	
801	Offices of physicians .....	797.3	798.1	827.7	831.3	-	656.3	653.7	678.3	680.1	-	
802	Offices of dentists .....	367.1	371.6	387.8	391.2	-	324.5	329.5	343.9	346.1	-	
805	Nursing and personal care facilities .....	1,040.6	1,044.0	1,076.4	1,078.1	-	942.1	944.1	974.8	975.5	-	
806	Hospitals .....	2,945.4	2,952.3	3,022.3	3,023.4	-	2,702.1	2,707.4	2,775.3	2,773.8	-	
81	<b>LEGAL SERVICES</b>	541.2	545.3	571.0	574.0	-	460.4	462.3	482.2	483.1	-	
82	<b>EDUCATIONAL SERVICES</b>	1,264.1	1,282.9	1,135.8	1,274.1	-	-	-	-	-	-	
821	Elementary and secondary schools .....	312.3	316.8	301.1	314.8	-	-	-	-	-	-	
822	Colleges and universities .....	830.2	843.2	714.3	828.2	-	-	-	-	-	-	
83	<b>SOCIAL SERVICES</b>	1,148.8	1,155.2	1,195.3	1,198.2	-	-	-	-	-	-	
86	<b>MEMBERSHIP ORGANIZATIONS</b>	1,526.5	1,531.1	1,524.2	1,534.9	-	-	-	-	-	-	
89	<b>MISCELLANEOUS SERVICES</b>	1,048.8	1,048.2	1,053.1	1,052.8	-	868.5	868.0	856.5	857.3	-	
891	Engineering and architectural services .....	572.6	572.2	566.0	562.9	-	479.0	478.5	463.9	461.0	-	
893	Accounting, auditing, and bookkeeping .....	336.0	335.7	351.7	354.2	-	271.8	271.9	279.3	282.7	-	
-	<b>GOVERNMENT</b>	16,000	16,137	15,394	15,830	15,969	-	-	-	-	-	
-	<b>FEDERAL GOVERNMENT<sup>4</sup></b>	2,737	2,729	2,704	2,704	2,707	-	-	-	-	-	
-	Executive, by agency <sup>5</sup> .....	2,683.3	2,675.6	( <sup>6</sup> )	( <sup>6</sup> )	-	-	-	-	-	-	
-	Department of Defense .....	914.8	921.6	( <sup>6</sup> )	( <sup>6</sup> )	-	-	-	-	-	-	
-	Postal Service .....	665.0	663.2	( <sup>6</sup> )	( <sup>6</sup> )	-	-	-	-	-	-	
-	Other executive agencies .....	1,103.5	1,090.8	( <sup>6</sup> )	( <sup>6</sup> )	-	-	-	-	-	-	
-	Legislative .....	38.4	38.5	( <sup>6</sup> )	( <sup>6</sup> )	-	-	-	-	-	-	
-	Judicial .....	15.3	15.2	( <sup>6</sup> )	( <sup>6</sup> )	-	-	-	-	-	-	

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>				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982 <sup>p</sup>	Nov. 1982 <sup>p</sup>	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982 <sup>p</sup>	Nov. 1982 <sup>p</sup>
	<b>FEDERAL GOVERNMENT—Continued</b>										
	Federal Government, by industry										
—	Manufacturing activities	132.9	134.3	130.0	136.6	—	—	—	—	—	—
3731	Shipbuilding and repairing	78.9	80.0	76.1	82.0	—	—	—	—	—	—
—	Transportation and public utilities, except										
—	Postal Service	42.9	43.3	41.4	41.8	—	—	—	—	—	—
—	Services	390.6	385.4	394.1	388.4	—	—	—	—	—	—
806	Federal government hospitals	230.0	230.2	232.3	231.4	—	—	—	—	—	—
—	<b>STATE AND LOCAL GOVERNMENT</b>	13,263	13,408	12,690	13,126	13,262	—	—	—	—	—
—	State government	3,699.7	3,712.5	3,498.6	3,642.8	—	—	—	—	—	—
806	State government hospitals	518.8	520.0	512.7	513.4	—	—	—	—	—	—
82	State education	1,497.7	1,517.3	1,317.1	1,464.2	—	—	—	—	—	—
—	General administration including executive, legislative, and judicial functions	1,048.0	1,042.7	1,039.9	1,029.1	—	—	—	—	—	—
—	Local government	9,563.0	9,655.7	9,191.8	9,483.1	—	—	—	—	—	—
—	Transportation and public utilities	571.2	576.7	585.9	583.8	—	—	—	—	—	—
806	Local government hospitals	631.6	632.9	649.0	645.6	—	—	—	—	—	—
82	Local education	5,311.6	5,435.0	4,821.6	5,200.6	—	—	—	—	—	—
—	General administration including executive, legislative, and judicial functions	2,746.1	2,745.0	2,823.3	2,756.2	—	—	—	—	—	—

<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> Data for September, October, and November 1982 are estimated by the Bureau of Labor Statistics.

<sup>5</sup> Prepared by the Office of Personnel Management. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies. Final estimates for September and preliminary estimates for October are not available. — Data not available. p = preliminary.

NOTE: Data from April 1981 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustment" in the Explanatory Notes of this publication.



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1981	Sept. 1981	July 1982	Aug. 1982	Sept. 1982
-	<b>TOTAL</b> .....	38,411	39,089	38,407	38,533	39,333
-	<b>PRIVATE SECTOR</b> .....	31,460	31,675	31,363	31,440	31,530
-	<b>MINING</b> .....	137	136	138	138	134
10	<b>METAL MINING</b> .....	10.0	9.5	5.8	5.7	5.6
11, 12	<b>COAL MINING</b> .....	11.4	11.5	11.5	11.4	11.3
13	<b>OIL AND GAS EXTRACTION</b> .....	105.0	104.8	111.3	110.6	103.0
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	66.7	66.1	71.6	72.1	70.4
138	Oil and gas field services .....	38.3	38.7	39.7	38.5	37.6
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	10.2	10.1	9.7	9.8	9.4
142	Crushed and broken stone .....	2.8	2.8	2.7	2.8	2.7
144	Sand and gravel .....	3.2	3.2	3.2	3.2	3.1
-	<b>CONSTRUCTION</b> .....	391	387	387	387	383
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	131.1	128.0	122.7	122.2	121.6
152	Residential building construction .....	75.7	73.2	70.5	70.3	59.5
153	Operative builders .....	14.5	14.5	13.5	13.5	13.9
154	Nonresidential building construction .....	40.9	40.3	38.7	38.4	38.2
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	67.2	66.3	66.4	67.9	55.9
161	Highway and street construction .....	19.2	18.7	16.1	16.5	15.0
162	Heavy construction, except highway .....	48.0	47.6	50.3	51.4	49.9
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	192.5	192.2	198.1	197.3	195.9
171	Plumbing, heating, air conditioning .....	52.2	52.0	52.8	52.6	51.9
172	Painting, paper hanging, decorating .....	11.9	12.1	12.4	12.1	12.1
173	Electrical work .....	36.8	36.6	38.2	38.3	37.7
174	Masonry, stonework, and plastering .....	21.8	22.2	21.6	21.4	21.5
175	Carpentering and flooring .....	14.1	14.1	13.9	13.7	13.7
176	Roofing and sheet metal work .....	12.6	12.5	12.6	12.7	12.9
-	<b>MANUFACTURING</b> .....	6,445	6,454	5,906	6,007	6,026
24, 25, 32-39	<b>DURABLE GOODS</b> .....	3,061	3,092	2,822	2,813	2,820
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	3,384	3,402	3,084	3,194	3,206
	<b>DURABLE GOODS</b>					
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	104.2	102.7	91.4	92.2	92.7
241	Logging camps and logging contractors .....	5.6	5.6	5.8	6.0	5.7
242	Sawmills and planing mills .....	20.3	19.9	17.8	18.0	18.5
2421	Sawmills and planing mills, general .....	14.5	14.1	12.4	12.6	13.0
243	Millwork, plywood, and structural members .....	41.3	40.2	35.3	35.5	35.6
244	Wood containers .....	6.5	6.9	6.7	6.6	6.6
245	Wood buildings and mobile homes .....	8.9	8.8	7.4	7.4	7.4
249	Miscellaneous wood products .....	21.2	21.3	18.4	18.7	18.9
25	<b>FURNITURE AND FIXTURES</b> .....	141.7	142.8	126.1	130.4	131.5
251	Household furniture .....	58.3	58.9	84.8	87.8	89.2
2511	Wood household furniture .....	41.7	42.2	36.3	38.1	38.9
2512	Upholstered household furniture .....	32.2	32.2	28.1	28.9	29.0
2515	Mattresses and bedsprings .....	8.7	8.6	7.6	7.8	7.7
252	Office furniture .....	14.3	14.5	13.4	13.7	13.6
253	Public building and related furniture .....	5.5	5.5	5.2	5.2	4.9
254	Partitions and fixtures .....	11.0	11.1	10.1	10.6	10.5
259	Miscellaneous furniture and fixtures .....	12.6	12.8	12.6	13.1	13.3
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	128.3	128.1	115.6	114.7	115.4
322	Glass and glassware, pressed or blown .....	41.5	41.2	36.8	36.5	36.7
3221	Glass containers .....	23.6	23.1	21.7	21.8	21.5
3229	Pressed and blown glass, nec .....	17.9	18.1	15.1	14.7	15.2
323	Products of purchased glass .....	12.9	13.1	12.1	11.8	11.8
324	Cement, hydraulic .....	1.9	1.8	1.7	1.7	1.7
325	Structural clay products .....	6.5	6.5	5.6	5.6	5.6
326	Pottery and related products .....	15.2	15.6	13.2	13.5	13.9
327	Concrete, gypsum, and plaster products .....	15.2	15.0	14.8	14.7	14.8
329	Misc. nonmetallic mineral products .....	31.8	31.7	28.1	27.6	27.7
33	<b>PRIMARY METAL INDUSTRIES</b> .....	125.5	125.2	104.2	102.0	100.6
331	Blast furnace and basic steel products .....	42.6	41.6	30.0	29.2	28.2
3312	Blast furnaces and steel mills .....	31.8	30.9	21.4	21.0	20.0
332	Iron and steel foundries .....	17.6	18.3	15.6	14.7	14.3

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Aug. 1981	Sept. 1981	July 1982	Aug. 1982	Sept. 1982
<b>PRIMARY METAL INDUSTRIES—Continued</b>						
3321	Gray iron foundries .....	8.8	8.7	6.9	6.8	6.7
3322	Malleable iron foundries .....	1.1	1.1	1.0	.9	.9
3325	Steel foundries, nec .....	4.5	4.5	3.9	3.9	3.6
333	Primary nonferrous metals .....	5.2	5.0	4.2	4.1	3.8
3334	Primary aluminum .....	2.4	2.2	1.7	1.7	1.6
335	Nonferrous rolling and drawing .....	38.7	39.0	34.6	33.9	34.4
3351	Copper rolling and drawing .....	3.5	3.6	3.0	3.0	3.0
3353	Aluminum sheet, plate, and foil .....	4.1	3.9	3.2	3.1	3.1
3357	Nonferrous wire drawing and insulating .....	23.0	23.8	21.3	20.7	20.9
336	Nonferrous foundries .....	15.5	15.6	14.4	14.7	14.7
3361	Aluminum foundries .....	8.1	8.2	7.6	7.8	7.7
34	<b>FABRICATED METAL PRODUCTS</b> .....	338.0	342.6	298.7	300.7	302.2
341	Metal cans and shipping containers .....	12.8	12.7	11.6	11.7	11.4
3411	Metal cans .....	11.0	10.9	9.8	9.9	9.6
342	Cutlery, hand tools, and hardware .....	53.8	54.9	45.4	45.2	45.3
3423, 5	Hand and edge tools, and hand saws and blades .....	15.5	15.6	12.6	12.7	12.7
3429	Hardware, nec .....	31.5	32.5	26.7	26.3	26.5
343	Plumbing and heating, except electric .....	17.2	17.5	16.2	16.1	16.8
344	Fabricated structural metal products .....	73.6	73.6	67.6	67.4	67.3
3441	Fabricated structural metal .....	7.8	7.9	6.9	6.9	6.8
3442	Metal doors, sash, and trim .....	21.7	21.6	20.6	20.8	20.8
3443	Fabricated plate work (boiler shops) .....	18.8	18.8	17.1	16.9	16.7
3444	Sheet metal work .....	15.5	15.6	14.4	14.3	14.5
345	Screw machine products, bolts, etc. ....	23.5	23.8	20.5	20.2	20.0
3451	Screw machine products .....	11.3	11.6	10.2	10.0	10.0
3452	Bolts, nuts, rivets, and washers .....	12.2	12.2	10.3	10.2	10.0
346	Metal forgings and stampings .....	52.5	54.5	43.2	45.2	46.0
3462	Iron and steel forgings .....	4.3	4.1	3.3	3.4	3.3
3465	Automotive stampings .....	13.6	14.4	12.3	11.9	12.5
3469	Metal stampings, nec .....	32.1	33.3	25.3	27.6	28.0
347	Metal services, nec .....	24.1	24.5	20.8	21.6	21.6
3471	Plating and polishing .....	17.6	17.8	15.1	16.0	16.1
3479	Metal coating and allied services .....	6.5	6.7	5.7	5.6	5.5
348	Ordnance and accessories, nec .....	19.5	19.6	20.2	20.0	20.2
349	Misc. fabricated metal products .....	61.0	61.5	53.2	53.3	53.6
3494	Valves and pipe fittings .....	23.5	23.4	20.2	20.2	20.1
3496	Misc. fabricated wire products .....	14.4	14.7	13.1	13.4	13.5
35	<b>MACHINERY, EXCEPT ELECTRICAL</b> .....	511.2	516.5	480.7	473.1	473.8
351	Engines and turbines .....	23.9	24.7	20.0	20.7	20.9
3511	Turbines and turbine generator sets .....	6.5	6.5	6.3	6.2	6.1
3519	Internal combustion engines, nec .....	17.4	18.2	13.7	14.5	14.8
352	Farm and garden machinery .....	24.9	24.9	19.8	20.2	21.0
3523	Farm machinery and equipment .....	19.0	18.7	15.3	14.9	15.3
353	Construction and related machinery .....	53.8	54.0	47.1	45.2	43.1
3531	Construction machinery .....	15.4	15.7	12.9	12.4	12.1
3533	Oil field machinery .....	17.9	18.1	16.6	15.8	14.5
354	Metalworking machinery .....	59.0	58.6	49.1	48.1	48.7
3541	Machine tools, metal cutting types .....	10.6	10.6	8.1	8.0	7.7
3544	Special dies, tools, jigs, and fixtures .....	16.9	16.7	14.6	14.6	14.3
3545	Machine tool accessories .....	13.8	13.6	11.7	11.5	11.2
355	Special industry machinery .....	29.9	29.5	26.9	26.8	26.5
3551	Food products machinery .....	5.7	5.5	5.2	5.3	5.3
3552	Textile machinery .....	5.0	5.0	4.3	4.2	4.2
3555	Printing trades machinery .....	6.7	6.5	7.1	7.1	7.1
356	General industrial machinery .....	63.3	63.8	55.9	54.1	52.9
3561	Pumps and pumping equipment .....	11.7	11.8	10.4	10.1	9.9
3562	Ball and roller bearings .....	13.6	13.8	12.3	11.5	11.2
357	Office and computing machines .....	170.3	172.5	183.0	181.8	183.1
3573	Electronic computing equipment .....	143.7	145.4	157.0	156.7	157.2
358	Refrigeration and service machinery .....	37.0	38.3	34.1	32.5	33.5
3585	Refrigeration and heating equipment .....	24.9	25.9	22.6	21.0	21.5
359	Misc. machinery, except electrical .....	49.1	50.2	44.8	43.7	44.1
3599	Machinery, except electrical, nec .....	35.2	40.1	36.1	35.1	35.3
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b> .....	855.1	907.1	846.8	845.9	844.8
361	Electric distributing equipment .....	46.0	47.4	40.3	40.3	41.1
3612	Transformers .....	19.4	20.4	17.4	17.5	17.8
3613	Switchgear and switchboard apparatus .....	26.6	27.0	22.9	22.8	23.3
362	Electrical industrial apparatus .....	51.5	52.2	78.4	76.6	75.1
3621	Motors and generators .....	50.2	50.8	41.5	40.5	40.3
3622	Industrial controls .....	28.9	29.0	26.7	26.1	24.9
363	Household appliances .....	58.7	62.0	50.1	49.3	51.1
3632	Household refrigerators and freezers .....	8.2	9.9	7.5	7.1	6.8
3633	Household laundry equipment .....	4.9	4.4	4.0	3.2	3.5
3634	Electric housewares and fans .....	25.5	30.7	23.9	25.7	27.3
364	Electric lighting and wiring equipment .....	51.5	51.6	80.6	82.4	82.5
3641	Electric lamps .....	19.7	19.8	18.4	19.3	18.5

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1981	Sept. 1981	July 1982	Aug. 1982	Sept. 1982
<b>ELECTRIC AND ELECTRONIC EQUIPMENT—Continued</b>						
3643	Current-carrying wiring devices .....	41.0	40.8	35.2	36.5	36.5
365	Radio and TV receiving equipment .....	56.9	58.6	48.2	48.4	49.4
3651	Radio and TV receiving sets .....	42.5	43.6	36.9	37.1	37.1
366	Communication equipment .....	211.9	212.7	205.7	208.2	207.1
3661	Telephone and telegraph apparatus .....	74.1	74.5	68.1	66.9	66.1
3662	Radio and TV communication equipment .....	137.8	138.2	141.6	141.3	141.0
367	Electronic components and accessories .....	284.6	287.1	285.8	286.0	282.8
3671-3	Electronic tubes .....	16.4	16.5	16.0	16.0	16.1
3674	Semiconductors and related devices .....	102.8	102.5	107.8	107.2	105.2
3679	Electronic components, nec. ....	116.6	118.6	118.6	119.6	119.6
369	Misc. electrical equipment and supplies .....	54.0	55.5	53.7	54.7	55.7
3694	Engine electrical equipment .....	23.5	24.6	24.0	24.7	25.0
<b>TRANSPORTATION EQUIPMENT</b>						
37	Motor vehicles and equipment .....	368.8	315.2	286.0	278.2	282.4
371	Motor vehicles and equipment .....	109.9	115.2	100.8	96.6	102.1
3711	Motor vehicles and car bodies .....	38.1	41.1	34.6	32.5	35.1
3713	Truck and bus bodies .....	4.1	4.3	3.4	3.0	3.4
3714	Motor vehicle parts and accessories .....	64.7	66.1	59.3	58.1	59.3
372	Aircraft and parts .....	124.7	125.8	117.5	114.2	115.4
3721	Aircraft .....	65.8	69.7	64.7	63.2	63.5
3724	Aircraft engines and engine parts .....	27.5	28.7	25.5	24.6	25.5
3728	Aircraft equipment, nec. ....	27.0	27.4	27.3	26.4	26.4
373	Ship and boat building and repairing .....	26.0	25.8	23.1	22.8	22.6
3731	Ship building and repairing .....	19.7	19.4	17.1	16.7	16.5
374	Railroad equipment .....	5.7	5.8	4.0	4.0	3.9
376	Guided missiles, space vehicles, parts .....	28.1	28.2	29.5	29.6	29.6
3761	Guided missiles and space vehicles .....	22.9	23.0	24.2	24.3	24.3
379	Miscellaneous transportation equipment .....	7.4	7.5	6.9	6.9	7.1
<b>INSTRUMENTS AND RELATED PRODUCTS</b>						
38	Engineering and scientific instruments .....	312.7	311.9	298.8	297.4	295.0
381	Engineering and scientific instruments .....	24.7	24.6	24.0	23.8	23.1
382	Measuring and controlling devices .....	112.1	112.5	102.9	101.8	101.2
3822	Environmental controls .....	24.3	24.4	20.5	20.3	20.3
3823	Process control instruments .....	21.1	21.2	18.9	18.4	17.8
3825	Instruments to measure electricity .....	48.4	48.0	47.5	47.2	46.7
383	Optical instruments and lenses .....	11.7	11.9	11.7	11.4	11.4
384	Medical instruments and supplies .....	87.0	87.0	86.5	87.0	87.6
3841	Surgical and medical instruments .....	42.9	42.6	43.4	43.2	43.4
3842	Surgical appliances and supplies .....	36.3	36.5	35.5	36.3	36.9
385	Ophthalmic goods .....	24.4	23.9	21.7	21.6	21.2
386	Photographic equipment and supplies .....	40.7	39.7	41.7	40.8	40.0
387	Watches, clocks, and watchcases .....	12.1	12.3	10.3	11.0	11.5
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>						
39	Jewelry, silverware, and plated ware .....	195.4	199.6	173.3	178.1	180.8
391	Jewelry, silverware, and plated ware .....	24.9	26.8	24.1	25.8	26.6
393	Musical instruments .....	5.8	9.6	8.6	8.6	8.6
394	Toys and sporting goods .....	64.4	66.0	56.2	56.7	57.9
3942, 4	Dolls, games, toys, and children's vehicles .....	36.4	37.3	30.1	31.5	32.6
3949	Sporting and athletic goods, nec. ....	28.0	28.7	26.1	25.2	25.3
395	Pens, pencils, office and art supplies .....	20.5	20.7	18.1	18.0	17.7
396	Costume jewelry and notions .....	26.8	27.0	21.5	23.2	23.5
399	Miscellaneous manufactures .....	49.0	49.5	44.8	45.8	46.5
<b>NONDURABLE GOODS</b>						
<b>FOOD AND KINDRED PRODUCTS</b>						
20	Meat products .....	548.1	550.4	504.5	540.2	544.3
201	Meat products .....	117.4	117.5	113.5	114.4	114.6
2011	Meat packing plants .....	29.3	29.0	26.2	26.5	26.7
2013	Sausages and other prepared meats .....	21.1	21.2	21.1	21.0	21.2
2016	Poultry dressing plants .....	60.9	61.0	59.4	59.9	60.0
202	Dairy products .....	37.5	37.2	37.6	37.3	36.5
2026	Fluid milk .....	16.8	16.5	16.4	16.2	15.8
203	Preserved fruits and vegetables .....	140.3	141.1	109.6	138.7	140.4
2032	Canned specialties .....	9.9	10.6	8.1	9.4	10.1
2033	Canned fruits and vegetables .....	70.9	66.1	41.0	66.9	64.6
2037	Frozen fruits and vegetables .....	23.1	26.4	23.2	25.4	29.6
204	Grain mill products .....	29.7	30.2	28.1	28.8	28.7
205	Bakery products .....	57.6	58.5	58.9	58.5	59.0
2051	Bread, cake, and related products .....	38.5	38.6	39.4	39.1	39.0
2052	Cookies and crackers .....	19.1	19.9	19.5	19.4	20.0
206	Sugar and confectionery products .....	42.1	44.1	37.7	41.9	44.8
207	Fats and oils .....	5.7	5.8	5.8	5.8	5.8
208	Beverages .....	43.2	43.0	43.5	43.1	43.0
2082	Malt beverages .....	8.2	7.9	8.2	8.1	7.8
2086	Bottled and canned soft drinks .....	19.2	19.1	20.1	19.9	19.6
209	Misc. foods and kindred products .....	74.6	73.0	69.8	71.7	71.5
<b>TOBACCO MANUFACTURES</b>						
21	Cigarettes .....	27.6	28.5	20.9	24.8	24.8
211	Cigarettes .....	15.1	14.6	14.6	13.8	13.4

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1981	Sept. 1981	July 1982	Aug. 1982	Sept. 1982
22	<b>TEXTILE MILL PRODUCTS</b>	395.2	397.2	346.7	353.1	354.9
221	Weaving mills, cotton	61.2	61.4	52.2	51.9	52.2
222	Weaving mills, synthetics	46.5	47.0	37.4	38.5	39.1
223	Weaving and finishing mills, wool	7.2	7.2	6.1	6.1	6.3
224	Narrow fabric mills	14.6	14.8	11.8	13.1	12.9
225	Knitting mills	141.6	141.9	130.7	133.5	134.1
2251	Women's hosiery, except socks	25.0	24.9	23.9	24.1	24.3
2252	Hosiery, nec	23.9	24.0	22.3	22.4	22.3
2253	Knit outerwear mills	52.0	52.5	48.4	50.2	50.2
2254	Knit underwear mills	21.5	21.7	20.0	20.7	20.9
2257	Circular knit fabric mills	11.3	11.1	9.3	9.2	9.5
226	Textile finishing, except wool	21.5	21.9	19.8	20.0	19.7
2261	Finishing plants, cotton	9.9	10.1	9.4	9.4	9.2
2262	Finishing plants, synthetic	5.9	5.9	5.2	5.3	5.0
227	Floor covering mills	22.8	22.9	20.0	20.0	20.3
228	Yarn and thread mills	60.4	60.5	52.2	53.5	54.0
2281	Yarn mills, except wool	38.7	38.6	34.2	35.3	35.5
2282	Throwing and winding mills	11.8	11.8	9.5	9.9	10.2
229	Miscellaneous textile goods	19.4	19.6	16.5	16.5	16.3
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,015.7	1,024.8	875.6	926.7	934.5
231	Men's and boys' suits and coats	60.3	60.6	54.0	56.5	57.6
232	Men's and boys' furnishings	298.4	297.9	265.1	272.7	274.1
2321	Men's and boys' shirts and nightwear	65.7	66.3	78.5	79.2	79.1
2327	Men's and boys' separate trousers	60.9	59.4	54.7	55.9	55.5
2328	Men's and boys' work clothing	64.7	64.7	75.1	77.7	79.4
233	Women's and misses' outerwear	351.1	354.0	279.4	315.1	316.5
2331	Women's and misses' blouses and waists	55.8	55.9	43.9	53.5	52.9
2335	Women's and misses' dresses	120.6	122.1	95.9	107.1	108.4
2337	Women's and misses' suits and coats	54.0	54.3	41.7	45.2	44.9
2339	Women's and misses' outerwear, nec	120.7	121.7	97.9	109.3	110.3
234	Women's and children's undergarments	79.0	80.7	71.4	72.7	74.1
2341	Women's and children's underwear	63.9	65.5	59.1	60.9	62.4
2342	Brassieres and allied garments	15.1	15.2	12.3	11.8	11.7
236	Children's outerwear	53.7	54.8	52.4	50.9	50.6
2361	Children's dresses and blouses	23.5	24.2	22.6	22.9	22.7
238	Misc. apparel and accessories	44.9	44.7	36.7	40.1	39.7
239	Misc. fabricated textile products	111.9	115.4	100.9	103.2	106.4
2391	Curtains and draperies	22.0	22.3	18.0	18.6	19.1
2392	House furnishings, nec	31.4	32.5	28.8	30.7	31.6
2396	Automotive and apparel trimmings	14.5	15.8	13.4	13.6	14.3
26	<b>PAPER AND ALLIED PRODUCTS</b>	164.2	164.0	151.9	152.5	151.9
261, 266	Paper and pulp mills	28.8	28.5	27.5	27.2	26.6
262	Paper mills, except building paper	25.9	25.6	24.8	24.5	24.0
263	Paperboard mills	6.1	6.0	5.4	5.4	5.3
264	Misc. converted paper products	79.8	79.8	74.3	74.6	74.4
265	Paperboard containers and boxes	49.5	49.7	44.7	45.3	45.6
27	<b>PRINTING AND PUBLISHING</b>	507.8	509.2	512.8	512.9	513.9
271	Newspapers	162.2	162.1	166.0	164.5	164.7
272	Periodicals	57.3	57.7	59.5	59.6	59.3
273	Books	52.9	52.2	52.1	51.7	50.5
274	Miscellaneous publishing	26.0	25.7	27.2	27.4	27.1
275	Commercial printing	151.7	133.6	130.6	132.0	133.7
2751	Commercial printing, letterpress	51.9	53.0	50.4	50.7	51.9
2752	Commercial printing, lithographic	73.2	74.1	74.2	75.3	75.8
276	Manifold business forms	16.0	15.9	15.7	15.7	15.9
278	Blankbooks and bookbinding	34.6	34.5	33.9	34.0	34.1
279	Printing trade services	11.5	11.8	12.8	12.7	13.0
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	265.6	266.6	280.5	280.6	278.5
281	Industrial inorganic chemicals	24.2	24.0	24.4	24.3	23.9
2819	Industrial inorganic chemicals, nec	16.3	16.2	16.3	16.2	16.0
282	Plastics materials and synthetics	42.9	43.0	40.1	39.5	38.8
2821	Plastics materials and resins	11.7	11.6	11.0	11.0	10.8
2824	Organic fibers, noncellulosic	22.0	22.4	21.1	20.6	20.5
283	Drugs	65.7	66.2	66.2	66.4	65.7
2834	Pharmaceutical preparations	72.2	72.4	71.7	72.0	71.6
284	Soap, cleaners, and toilet goods	60.0	60.7	59.6	60.7	60.5
2841	Soap and other detergents	10.1	10.1	10.0	10.4	10.2
2844	Toilet preparations	37.4	38.1	37.4	37.7	37.5
285	Paints and allied products	12.4	12.2	11.6	11.6	11.5
286	Industrial organic chemicals	28.2	28.4	27.8	27.6	27.7
2861,9	Gum, wood, and industrial organic chemicals, nec	23.4	23.6	23.4	23.2	23.3
287	Agricultural chemicals	10.8	10.7	10.3	9.9	9.9
289	Miscellaneous chemical products	21.4	21.4	20.5	20.6	20.5

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1981	Sept. 1981	July 1982	Aug. 1982	Sept. 1982
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	32.3	31.9	32.4	32.2	32.3
291	Petroleum refining .....	27.0	26.6	27.2	27.1	27.2
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	264.8	266.9	240.6	244.7	245.5
301	Tires and inner tubes .....	10.4	10.1	9.0	9.0	9.2
302	Rubber and plastics footwear .....	13.7	13.8	13.0	12.8	12.7
303,4	Reclaimed rubber, and rubber and plastics hose and belting .....	7.2	7.1	5.0	4.9	5.0
306	Fabricated rubber products, nec .....	37.1	37.5	32.6	33.4	33.2
307	Miscellaneous plastics products .....	156.4	158.4	181.0	184.6	185.4
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	143.0	142.1	118.4	126.6	125.2
311	Leather tanning and finishing .....	3.0	3.0	2.6	2.7	2.6
314	Footwear, except rubber .....	97.2	95.5	80.1	86.4	85.5
3143	Men's footwear, except athletic .....	36.9	36.8	28.9	31.4	31.1
3144	Women's footwear, except athletic .....	37.5	35.7	32.2	34.4	33.9
316	Luggage .....	7.8	7.9	7.1	6.9	6.6
317	Handbags and personal leather goods .....	21.1	21.5	16.8	17.9	17.8
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	1,333	1,362	1,322	1,319	1,344
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	41.6	78.8	49.5	47.1	84.5
411	Local and suburban transportation .....	14.9	16.1	15.8	16.5	16.8
412	Taxicabs .....	6.2	6.8	6.3	6.1	6.5
413	Intercity highway transportation .....	4.8	5.0	4.9	4.9	5.0
415	School buses .....	12.8	47.6	19.3	16.3	52.6
42	<b>TRUCKING AND WAREHOUSING</b> .....	155.0	155.1	154.3	154.4	153.4
421,3	Trucking and trucking terminals .....	137.7	136.9	137.9	137.2	136.0
422	Public warehousing .....	17.3	18.2	16.4	17.2	17.4
44	<b>WATER TRANSPORTATION</b> .....	25.4	24.7	25.8	25.3	24.5
45	<b>TRANSPORTATION BY AIR</b> .....	152.6	149.7	146.3	146.6	146.7
451,2	Air transportation .....	143.5	140.6	136.5	136.8	136.9
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	3.3	3.3	3.3	3.2	3.0
47	<b>TRANSPORTATION SERVICES</b> .....	108.5	108.0	115.9	116.8	115.9
48	<b>COMMUNICATION</b> .....	652.9	652.2	628.8	627.9	622.3
481	Telephone communication .....	557.4	555.7	523.8	522.8	516.0
483	Radio and television broadcasting .....	67.6	66.1	72.8	72.7	72.9
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....	167.6	165.1	174.2	174.4	171.1
491	Electric services .....	77.7	77.4	82.4	82.5	81.9
492	Gas production and distribution .....	40.4	39.2	41.1	41.2	40.0
493	Combination utility services .....	37.9	37.0	38.4	38.6	37.5
495	Sanitary services .....	6.4	6.5	6.8	6.6	6.5
-	<b>WHOLESALE AND RETAIL TRADE</b> .....	8,992	9,094	9,079	9,077	9,132
50,51	<b>WHOLESALE TRADE</b> .....	1,398	1,409	1,396	1,393	1,398
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	776	776	771	770	767
501	Motor vehicles and automotive equipment .....	88.5	89.2	90.5	90.3	89.7
502	Furniture and home furnishings .....	44.4	45.4	45.6	46.3	46.3
503	Lumber and construction materials .....	36.8	36.7	37.0	37.1	37.3
504	Sporting goods, toys, and hobby goods .....	24.0	24.4	24.2	24.2	24.6
505	Metals and minerals, except petroleum .....	29.6	29.6	27.1	26.8	26.4
506	Electrical goods .....	126.7	126.6	127.1	127.7	127.5
507	Hardware, plumbing, and heating equipment .....	66.1	65.7	64.2	64.1	64.1
508	Machinery, equipment, and supplies .....	312.1	316.6	311.7	309.7	307.4
509	Miscellaneous durable goods .....	47.7	47.9	43.5	43.6	43.7
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> .....	622	633	625	623	631
511	Paper and paper products .....	48.8	48.6	51.0	51.4	51.7
512	Drugs, proprietaries, and sundries .....	65.0	65.2	68.2	68.1	68.6
513	Apparel, piece goods, and notions .....	63.5	63.8	65.2	64.7	65.2
514	Groceries and related products .....	160.8	160.0	155.1	148.8	150.3
516	Chemicals and allied products .....	35.8	36.1	37.9	38.1	38.3
517	Petroleum and petroleum products .....	55.3	55.3	56.0	56.2	55.7
518	Beer, wine, and distilled beverages .....	22.2	22.1	22.2	22.0	22.1
519	Miscellaneous nondurable goods .....	117.8	121.9	120.9	121.9	124.1

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1981	Sept. 1981	July 1982	Aug. 1982	Sept. 1982
52-59	<b>RETAIL TRADE</b> .....	7,594	7,685	7,683	7,684	7,734
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	159.6	160.1	155.0	155.5	156.2
521	Lumber and other building materials .....	64.6	64.6	63.4	63.3	62.9
525	Hardware stores .....	55.7	55.9	54.9	55.5	55.3
53	<b>GENERAL MERCHANDISE STORES</b> .....	1,438.3	1,454.9	1,481.0	1,476.2	1,499.5
531	Department stores .....	1,175.8	1,191.7	1,224.6	1,219.9	1,231.8
533	Variety stores .....	178.5	175.0	168.8	168.2	159.0
539	Misc. general merchandise stores .....	84.0	84.2	87.6	88.1	87.7
54	<b>FOOD STORES</b> .....	1,048.0	1,055.5	1,072.2	1,077.4	1,087.1
541	Grocery stores .....	879.8	886.8	900.0	903.7	912.0
542	Meat markets and freezer provisioners .....	17.4	16.7	17.1	17.0	17.4
546	Retail bakeries .....	78.8	80.7	78.9	80.3	82.0
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	312.3	310.8	320.5	319.9	318.6
551,2	New and used car dealers .....	111.2	111.5	109.1	108.6	108.4
553	Auto and home supply stores .....	48.6	48.8	50.7	50.5	50.8
554	Gasoline service stations .....	136.7	135.4	144.0	145.0	144.3
56	<b>APPAREL AND ACCESSORY STORES</b> .....	658.5	666.8	662.9	670.3	670.1
561	Men's and boys' clothing and furnishings .....	55.8	56.3	56.0	55.3	56.2
562	Women's ready-to-wear stores .....	303.4	308.8	305.9	309.3	309.0
565	Family clothing stores .....	134.7	135.5	132.0	134.9	133.7
566	Shoe stores .....	86.1	86.9	89.6	90.9	89.4
57	<b>FURNITURE AND HOME FURNISHING STORES</b> .....	202.8	203.8	202.4	203.6	205.2
571	Furniture and home furnishings stores .....	136.2	136.6	133.2	132.7	134.2
572	Household appliance stores .....	21.5	21.4	23.3	23.3	23.2
573	Radio, television, and music stores .....	45.1	45.8	45.9	47.6	47.8
58	<b>EATING AND DRINKING PLACES</b> .....	2,724.9	2,755.9	2,721.4	2,707.8	2,719.2
59	<b>MISCELLANEOUS RETAIL</b> .....	1,049.4	1,077.0	1,067.1	1,072.9	1,089.2
591	Drug stores and proprietary stores .....	313.7	315.4	312.2	313.0	314.6
592	Liquor stores .....	36.5	37.1	37.2	36.4	36.9
594	Miscellaneous shopping goods stores .....	367.0	382.2	381.7	385.2	394.3
596	Nonstore retailers .....	156.7	166.8	161.5	165.0	169.9
598	Fuel and ice dealers .....	22.9	23.2	23.8	24.0	23.3
599	Retail stores, nec .....	111.1	131.0	129.0	127.7	129.2
-	<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,190	3,172	3,231	3,227	3,205
60	<b>BANKING</b> .....	1,169.8	1,160.9	1,182.1	1,180.2	1,169.8
602	Commercial and stock savings banks .....	1,075.6	1,067.5	1,066.8	1,084.9	1,075.3
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	401.9	400.4	409.4	409.7	408.9
612	Savings and loan associations .....	156.3	195.9	205.9	206.6	205.9
614	Personal credit institutions .....	132.3	131.5	128.0	127.6	127.7
62	<b>SECURITY, COMMODITY BROKERS, AND SERVICES</b> .....	113.5	114.2	123.1	122.4	121.5
621	Security brokers and dealers .....	93.2	94.1	102.1	101.5	100.7
63	<b>INSURANCE CARRIERS</b> .....	755.4	750.7	746.2	744.6	740.1
631	Life insurance .....	304.7	302.8	301.6	301.2	299.3
632	Medical service and health insurance .....	102.9	102.2	101.6	101.4	101.1
633	Fire, marine, and casualty insurance .....	297.8	295.9	295.2	294.3	291.8
64	<b>INSURANCE AGENTS, BROKERS, AND SERVICE</b> .....	255.3	294.4	304.1	303.3	301.6
65	<b>REAL ESTATE</b> .....	378.2	374.7	385.7	385.5	382.5
651	Real estate operators and lessors .....	150.8	150.3	161.5	162.3	160.7
653	Real estate agents and managers .....	176.8	175.4	176.4	175.1	174.3
655	Subdividers and developers .....	36.0	34.8	35.2	35.4	34.9
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC.</b> .....	11.6	11.6	11.7	11.6	11.5
67	<b>HOLDING AND OTHER INVESTMENT OFFICES</b> .....	65.0	65.2	68.9	69.4	69.5
-	<b>SERVICES</b> .....	10,972	11,030	11,300	11,285	11,366
70	<b>HOTELS AND OTHER LODGING PLACES</b> .....	673.8	627.4	656.4	666.4	614.4
701	Hotels, motels, and tourist courts .....	630.4	604.2	617.0	623.6	591.2

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1981	Sept. 1981	July 1982	Aug. 1982	Sept. 1982
72	<b>PERSONAL SERVICES</b> .....	616.7	623.9	629.3	625.5	636.3
721	Laundry, cleaning, and garment services .....	221.5	222.6	220.5	219.0	219.8
723	Beauty shops .....	251.9	256.2	264.3	263.7	265.3
726	Funeral service and crematories .....	15.6	19.5	21.0	20.7	21.2
73	<b>BUSINESS SERVICES</b> .....	1,436.3	1,442.4	1,438.2	1,438.7	1,441.1
731	Advertising .....	74.2	73.8	78.6	78.8	79.3
732	Credit reporting and collection .....	54.0	53.7	54.5	53.9	53.9
733	Mailing, reproduction, stenographic .....	62.6	63.9	64.7	62.8	64.5
734	Services to buildings .....	157.6	201.9	206.4	205.9	236.2
736	Personnel supply services .....	387.6	381.0	346.8	345.2	345.2
737	Computer and data processing services .....	159.1	161.3	169.1	168.2	169.8
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	95.6	94.6	100.9	102.0	101.1
753	Automotive repair shops .....	44.6	43.8	50.3	50.9	50.3
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	58.6	56.2	59.2	58.6	58.0
78	<b>MOTION PICTURES</b> .....	50.0	67.9	90.9	89.1	34.4
781	Motion picture production and services .....	25.6	26.7	26.7	26.2	25.9
783	Motion picture theaters .....	58.2	54.8	58.2	57.0	52.4
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	343.0	327.6	354.4	389.0	357.8
80	<b>HEALTH SERVICES</b> .....	4,560.8	4,564.4	4,733.0	4,742.0	4,741.0
801	Offices of physicians .....	620.0	619.7	642.0	648.2	647.2
802	Offices of dentists .....	308.3	308.1	332.8	329.8	331.4
805	Nursing and personal care facilities .....	921.7	922.3	950.4	953.7	954.6
806	Hospitals .....	2,368.5	2,370.3	2,445.6	2,445.6	2,441.8
81	<b>LEGAL SERVICES</b> .....	382.6	375.1	403.7	402.3	402.4
82	<b>EDUCATIONAL SERVICES</b> .....	508.0	590.8	532.7	522.9	621.2
821	Elementary and secondary schools .....	161.4	183.9	168.4	163.1	198.5
822	Colleges and universities .....	282.5	341.4	298.0	293.4	354.9
83	<b>SOCIAL SERVICES</b> .....	834.3	853.4	854.6	854.7	896.7
89	<b>MISCELLANEOUS SERVICES</b> .....	351.8	348.8	361.6	360.4	357.5
891	Engineering and architectural services .....	127.8	125.1	130.5	129.3	127.3
893	Accounting, auditing, and bookkeeping .....	161.1	161.5	169.6	170.0	171.5
-	<b>GOVERNMENT</b> .....	6,951	7,414	7,044	7,093	7,743
-	<b>FEDERAL GOVERNMENT</b> .....	890	666	1,164	1,264	1,326
-	<b>STATE AND LOCAL GOVERNMENT</b> .....	6,061	6,548	5,880	5,829	6,417
-	State government .....	1,537.3	1,607.7	1,466.7	1,484.4	1,563.1
-	Hospitals .....	328.4	326.9	320.5	318.9	217.4
-	State education .....	538.8	622.7	516.9	514.6	614.4
-	General administration including executive, legislative, and judicial functions .....	445.7	437.7	434.5	433.7	420.9
-	Local government .....	4,523.9	4,939.9	4,393.1	4,344.1	4,853.6
-	Transportation and public utilities .....	95.1	94.8	57.3	97.2	97.6
-	Hospitals .....	511.4	512.1	529.7	529.8	528.7
-	Local education .....	2,647.4	3,184.3	2,498.1	2,460.3	3,062.7
-	General administration including executive, legislative, and judicial functions .....	1,036.4	951.9	1,058.1	1,042.5	973.1

# 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	1981		1982										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. P	Nov. P
<b>TOTAL</b> .....	50,996	90,642	90,460	90,459	90,304	90,083	90,166	89,839	89,535	89,312	89,267	88,878	88,715
<b>GOODS-PRODUCING</b> .....	25,176	24,908	24,664	24,631	24,450	24,289	24,255	23,994	23,840	23,657	23,530	23,242	23,086
<b>MINING</b> .....	1,202	1,206	1,201	1,203	1,197	1,182	1,152	1,124	1,100	1,086	1,075	1,065	1,051
<b>CONSTRUCTION</b> .....	4,071	4,026	3,966	3,974	3,934	3,938	3,988	3,940	3,927	3,899	3,883	3,354	3,850
<b>MANUFACTURING</b> .....	19,903	19,676	19,517	19,454	19,319	19,169	19,115	18,930	18,813	18,672	18,572	18,323	18,185
<b>DURABLE GOODS</b> .....	11,901	11,724	11,622	11,575	11,490	11,375	11,332	11,203	11,133	10,993	10,900	10,653	10,563
Lumber and wood products .....	628	615	607	611	607	615	617	615	614	614	616	612	616
Furniture and fixtures .....	462	457	452	449	448	443	443	442	439	443	439	433	433
Stone, clay, and glass products .....	620	610	596	596	590	584	586	580	579	574	571	564	559
Primary metal industries .....	1,082	1,053	1,038	1,024	1,007	976	945	926	906	889	865	831	811
Fabricated metal products .....	1,553	1,529	1,515	1,505	1,496	1,481	1,472	1,452	1,446	1,427	1,414	1,380	1,370
Machinery, except electrical .....	2,511	2,486	2,459	2,446	2,419	2,389	2,377	2,322	2,274	2,230	2,208	2,142	2,109
Electric and electronic equipment .....	2,077	2,049	2,055	2,048	2,038	2,034	2,034	2,026	2,018	2,011	1,995	1,959	1,965
Transportation equipment .....	1,830	1,791	1,777	1,778	1,774	1,748	1,755	1,745	1,759	1,719	1,709	1,662	1,638
Instruments and related products .....	727	725	720	718	716	713	713	708	708	702	701	692	688
Miscellaneous manufacturing ind. ....	411	409	403	400	397	392	390	387	390	384	382	378	374
<b>NONDURABLE GOODS</b> .....	8,002	7,952	7,855	7,875	7,829	7,754	7,783	7,727	7,680	7,679	7,672	7,660	7,622
Food and kindred products .....	1,664	1,661	1,657	1,663	1,658	1,643	1,652	1,637	1,643	1,628	1,629	1,647	1,640
Tobacco manufactures .....	69	68	69	68	68	67	67	67	65	65	63	62	61
Textile mill products .....	804	794	780	777	760	773	759	741	741	737	735	735	725
Apparel and other textile products .....	1,235	1,222	1,201	1,201	1,186	1,165	1,165	1,161	1,126	1,145	1,143	1,143	1,134
Paper and allied products .....	681	677	674	670	668	664	661	658	657	653	657	649	650
Printing and publishing .....	1,276	1,276	1,275	1,276	1,278	1,274	1,274	1,269	1,267	1,269	1,269	1,269	1,266
Chemicals and allied products .....	1,103	1,100	1,055	1,093	1,088	1,082	1,079	1,073	1,068	1,070	1,066	1,050	1,062
Petroleum and coal products .....	215	214	210	208	207	206	207	205	205	205	209	208	205
Rubber and misc. plastic products .....	725	716	712	708	703	706	708	704	700	699	694	683	676
Leather and leather products .....	230	224	222	215	213	214	211	212	208	208	207	204	203
<b>SERVICE-PRODUCING</b> .....	65,820	65,734	65,776	65,828	65,854	65,754	65,911	65,845	65,695	65,655	65,737	65,636	65,629
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	5,150	5,128	5,125	5,115	5,100	5,094	5,101	5,078	5,044	5,025	5,031	5,009	5,009
<b>WHOLESALE AND RETAIL TRADE</b> .....	20,623	20,524	20,630	20,670	20,655	20,584	20,652	20,595	20,615	20,550	20,492	20,437	20,388
<b>WHOLESALE TRADE</b> .....	5,375	5,357	5,346	5,343	5,336	5,323	5,331	5,307	5,299	5,278	5,272	5,251	5,232
<b>RETAIL TRADE</b> .....	15,248	15,167	15,284	15,327	15,319	15,261	15,321	15,288	15,316	15,272	15,220	15,186	15,156
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	5,324	5,331	5,326	5,326	5,336	5,335	5,342	5,352	5,359	5,360	5,367	5,358	5,364
<b>SERVICES</b> .....	18,815	18,834	18,831	18,867	18,904	18,929	18,963	18,988	19,042	19,048	19,084	19,087	19,127
<b>GOVERNMENT</b> .....	15,908	15,917	15,864	15,850	15,859	15,852	15,853	15,832	15,635	15,672	15,763	15,745	15,741
<b>FEDERAL</b> .....	2,749	2,756	2,741	2,737	2,736	2,730	2,728	2,739	2,737	2,739	2,734	2,723	2,726
<b>STATE AND LOCAL</b> .....	13,159	13,161	13,123	13,113	13,123	13,122	13,125	13,093	12,898	12,933	13,029	13,022	13,015

<sup>1</sup> Data for September, October, and November 1982 are estimated by the Bureau of Labor Statistics.

p = preliminary.



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

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

[In thousands]

Industry division and group	1981					1982							
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
<b>TOTAL</b> .....	39,187	39,198	39,139	39,098	39,689	39,147	39,150	39,093	39,181	39,195	39,180	39,287	39,438
<b>GOODS-PRODUCING</b> .....	6,909	6,871	6,814	6,759	6,712	6,692	6,650	6,601	6,593	6,536	6,502	6,480	6,439
<b>MINING</b> .....	135	137	138	141	140	141	142	143	141	138	135	134	133
<b>CONSTRUCTION</b> .....	382	381	381	381	384	382	382	384	383	381	379	379	378
<b>MANUFACTURING</b> .....	6,392	6,353	6,295	6,237	6,186	6,169	6,126	6,074	6,069	6,017	5,988	5,957	5,928
<b>DURABLE GOODS</b> .....	3,074	3,050	3,008	2,972	2,957	2,942	2,922	2,894	2,891	2,865	2,860	2,834	2,804
Lumber and wood products .....	100	98	95	94	93	92	91	91	91	91	91	91	91
Furniture and fixtures .....	142	142	139	137	136	135	133	133	133	133	131	132	131
Stone, clay, and glass products .....	126	126	123	122	120	120	119	117	117	115	116	114	114
Primary metal industries .....	125	122	119	116	113	112	110	107	107	105	105	103	100
Fabricated metal products .....	340	333	326	320	317	315	313	309	308	307	304	304	300
Machinery, except electrical .....	520	520	517	511	507	505	503	500	499	493	485	480	477
Electric and electronic equipment .....	905	898	884	874	880	876	870	867	869	860	859	855	842
Transportation equipment .....	312	308	304	298	296	295	293	287	286	284	288	282	279
Instruments and related products .....	312	311	310	309	307	306	304	303	303	301	301	297	296
Miscellaneous manufacturing ind. ....	192	192	191	191	188	186	184	180	178	176	180	176	174
<b>NONDURABLE GOODS</b> .....	3,318	3,303	3,287	3,265	3,231	3,227	3,204	3,180	3,178	3,152	3,128	3,133	3,124
Food and kindred products .....	492	499	501	500	496	499	499	491	495	490	498	490	485
Tobacco manufactures .....	25	25	25	25	25	24	24	24	24	24	24	23	22
Textile mill products .....	394	388	383	378	370	368	362	367	362	353	355	352	352
Apparel and other textile products .....	1,012	1,004	998	988	971	971	958	939	938	935	905	922	923
Paper and allied products .....	163	160	158	158	157	157	156	155	154	151	152	151	151
Printing and publishing .....	512	513	513	515	516	518	518	518	519	517	515	515	516
Chemicals and allied products .....	285	285	285	285	284	284	283	282	281	280	278	279	277
Petroleum and coal products .....	32	32	32	32	32	33	33	32	32	31	31	31	31
Rubber and misc. plastics products .....	263	258	254	250	247	245	244	245	247	245	246	246	242
Leather and leather products .....	140	139	138	134	133	128	127	127	126	126	124	124	123
<b>SERVICE-PRODUCING</b> .....	32,278	32,327	32,325	32,339	32,377	32,455	32,500	32,492	32,588	32,659	32,678	32,807	32,999
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	1,355	1,355	1,351	1,358	1,338	1,339	1,339	1,342	1,348	1,341	1,335	1,334	1,336
<b>WHOLESALE AND RETAIL TRADE</b> .....	9,057	9,066	9,049	9,022	9,084	9,129	9,130	9,118	9,156	9,124	9,164	9,127	9,091
<b>WHOLESALE TRADE</b> .....	1,406	1,407	1,412	1,408	1,405	1,408	1,409	1,411	1,410	1,406	1,403	1,397	1,395
<b>RETAIL TRADE</b> .....	7,651	7,659	7,637	7,614	7,679	7,721	7,721	7,707	7,746	7,718	7,761	7,730	7,696
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,182	3,183	3,186	3,189	3,185	3,185	3,190	3,194	3,202	3,211	3,209	3,211	3,215
<b>SERVICES</b> .....	11,028	11,086	11,113	11,135	11,151	11,192	11,216	11,229	11,255	11,265	11,300	11,308	11,366
<b>GOVERNMENT</b> .....	7,656	7,637	7,626	7,635	7,619	7,610	7,625	7,609	7,627	7,718	7,670	7,827	7,991
<b>FEDERAL</b> .....	880	876	874	881	877	875	876	873	876	1,014	1,137	1,248	1,348
<b>STATE AND LOCAL</b> .....	6,776	6,761	6,752	6,754	6,742	6,735	6,749	6,736	6,751	6,704	6,533	6,579	6,643

# ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

## B-6. Production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

[In thousands]

Industry division and group	1981					1982							
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. <sup>P</sup>	Nov. P
<b>TOTAL PRIVATE</b> .....	60,775	60,401	60,248	60,282	60,132	59,923	60,025	59,759	59,670	59,388	59,303	58,935	58,762
<b>GOODS-PRODUCING</b> .....	17,754	17,478	17,251	17,225	17,073	16,922	16,917	16,686	16,564	16,414	16,308	16,046	15,915
<b>MINING</b> .....	882	883	875	876	871	863	835	805	782	770	763	753	743
<b>CONSTRUCTION</b> .....	3,155	3,107	3,035	3,059	3,023	3,017	3,074	3,029	3,022	2,997	2,979	2,953	2,950
<b>MANUFACTURING</b> .....	13,717	13,488	13,341	13,290	13,179	13,042	13,008	12,852	12,760	12,647	12,566	12,340	12,222
<b>DURABLE GOODS</b> .....	8,061	7,885	7,793	7,759	7,685	7,576	7,553	7,443	7,388	7,272	7,191	6,982	6,896
Lumber and wood products .....	516	503	497	502	497	507	507	506	505	506	507	504	507
Furniture and fixtures .....	369	364	359	356	353	350	350	349	346	350	346	341	341
Stone, clay, and glass products .....	475	465	452	452	446	441	444	438	438	435	433	426	421
Primary metal industries .....	821	795	780	770	756	727	702	686	669	657	638	607	591
Fabricated metal products .....	1,133	1,110	1,096	1,089	1,081	1,069	1,063	1,046	1,043	1,027	1,017	990	983
Machinery, except electrical .....	1,576	1,552	1,526	1,514	1,490	1,460	1,454	1,408	1,366	1,328	1,309	1,249	1,223
Electric and electronic equipment .....	1,285	1,257	1,266	1,258	1,248	1,241	1,240	1,233	1,221	1,215	1,202	1,182	1,177
Transportation equipment .....	1,159	1,115	1,102	1,108	1,109	1,086	1,098	1,089	1,112	1,075	1,064	1,020	996
Instruments and related products .....	424	423	420	418	415	411	412	407	406	402	399	391	388
Miscellaneous manufacturing ind. ....	303	301	295	292	290	284	283	281	282	277	276	272	269
<b>NONDURABLE GOODS</b> .....	5,656	5,603	5,548	5,531	5,494	5,466	5,455	5,409	5,372	5,375	5,375	5,358	5,326
Food and kindred products .....	1,144	1,140	1,135	1,142	1,138	1,125	1,133	1,121	1,129	1,115	1,116	1,131	1,124
Tobacco manufactures .....	54	53	54	53	53	52	52	52	51	51	49	48	46
Textile mill products .....	693	683	670	667	651	662	650	633	634	630	631	631	622
Apparel and other textile products .....	1,049	1,036	1,018	1,018	1,006	987	985	982	949	967	966	964	956
Paper and allied products .....	511	506	504	501	499	496	493	489	489	487	492	483	485
Printing and publishing .....	700	700	699	699	701	698	699	696	694	695	695	695	692
Chemicals and allied products .....	621	616	612	605	605	602	600	595	591	593	592	587	591
Petroleum and coal products .....	132	131	125	124	124	123	123	122	122	122	126	125	125
Rubber and misc. plastics products .....	557	548	544	538	534	541	543	542	541	540	535	524	516
Leather and leather products .....	195	190	187	180	179	180	177	177	172	175	173	170	169
<b>SERVICE-PRODUCING</b> .....	43,021	42,923	42,957	43,057	43,059	43,001	43,108	43,073	43,106	42,974	42,995	42,889	42,847
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,261	4,241	4,241	4,232	4,217	4,209	4,212	4,194	4,165	4,142	4,155	4,131	4,134
<b>WHOLESALE AND RETAIL TRADE</b> .....	18,016	17,920	18,011	18,061	18,051	17,996	18,065	18,014	18,037	17,941	17,889	17,833	17,761
<b>WHOLESALE TRADE</b> .....	4,367	4,348	4,332	4,327	4,317	4,301	4,309	4,287	4,282	4,260	4,253	4,236	4,215
<b>RETAIL TRADE</b> .....	13,649	13,572	13,679	13,734	13,734	13,695	13,756	13,727	13,755	13,681	13,636	13,597	13,546
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4,013	4,014	4,007	4,003	4,004	3,999	3,998	4,012	4,013	4,006	4,014	4,001	4,000
<b>SERVICES</b> .....	16,731	16,748	16,738	16,761	16,787	16,797	16,833	16,853	16,891	16,885	16,937	16,924	16,952

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

p = preliminary.

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

Time span	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span	1980.....	53.8	48.9	49.2	29.0	32.8	29.6	35.2	64.0	61.0	62.6	59.4	54.6
	1981.....	56.7	48.7	51.1	68.3	65.3	54.0	59.9	50.3	50.3	34.7	28.2	31.2
	1982.....	32.5	42.5	35.8	40.9	51.1	32.0	43.5	37.6	43.0	27.2p	34.4p	
Over 3-month span	1980.....	50.0	47.0	35.2	28.8	23.1	28.2	34.1	51.6	69.1	67.2	64.2	58.9
	1981.....	53.5	52.2	60.2	70.2	70.4	65.9	59.4	57.0	40.1	30.6	26.3	23.4
	1982.....	28.0	31.2	33.6	37.1	35.8	35.8	27.7	31.7	28.2p	28.5p		
Over 6-month span	1980.....	39.8	34.1	29.3	23.1	26.6	28.8	35.8	44.1	59.1	71.2	64.0	61.0
	1981.....	64.8	65.9	67.2	67.7	67.2	67.5	51.3	39.0	33.9	30.1	27.7	24.2
	1982.....	21.8	27.4	27.4	29.8	28.8	30.1	24.2p	21.2p				
Over 12-month span	1980.....	30.9	32.3	32.8	33.9	31.7	32.3	31.7	33.9	33.9	39.5	50.8	62.6
	1981.....	73.9	71.0	70.4	62.1	50.0	43.3	35.2	33.6	31.5	27.2	27.7	25.8
	1982.....	23.1	23.1	21.2	18.8p	20.2p							

<sup>1</sup> Number of employees, seasonally adjusted for 1, 3, and 6 month spans, on payrolls of 186 private nonagricultural industries.  
p = preliminary.

NOTE: Figures are the percent of industries with employment rising. (Half of the unchanged components are counted as rising.) Data are centered within the spans.

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and areas	Total			Mining			Construction			Manufacturing		
	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P
<b>1 ALABAMA</b> .....	1,355.4	1,312.5	1,315.3	16.9	15.8	15.9	66.2	63.1	63.7	361.4	333.1	328.0
2 Birmingham .....	343.9	332.6	333.3	8.8	8.3	8.2	19.0	18.7	18.5	58.5	50.2	48.7
3 Huntsville .....	124.1	126.0	126.1	(1)	(1)	(1)	4.0	4.0	3.9	37.4	38.0	37.9
4 Mobile .....	152.9	145.5	146.1	(1)	(1)	(1)	10.2	9.2	9.3	31.3	27.4	27.0
5 Montgomery .....	106.8	104.3	103.6	(1)	(1)	(1)	6.0	5.8	5.8	16.4	14.9	14.7
6 Tuscaloosa .....	51.5	49.3	50.4	2.7	2.7	2.7	2.4	1.9	2.1	8.1	7.7	7.6
<b>7 ALASKA</b> .....	182.8	197.7	191.7	7.5	8.3	7.9	15.5	18.1	17.5	10.5	12.1	8.9
<b>8 ARIZONA</b> .....	1,050.2	1,023.1	1,033.0	25.1	15.1	15.3	68.1	59.2	60.3	160.7	150.0	149.6
9 Phoenix .....	662.1	647.9	654.5	.4	.5	.5	46.9	39.6	40.4	116.9	109.0	108.1
10 Tucson .....	191.6	190.0	191.1	7.6	4.1	3.9	11.8	11.1	11.4	24.4	24.8	24.9
<b>11 ARKANSAS</b> .....	748.8	731.6	732.3	6.1	5.7	5.7	34.4	31.1	30.5	211.5	194.6	193.9
12 Fayetteville—Springdale .....	67.6	64.8	64.9	(1)	(1)	(1)	2.7	2.7	2.6	20.4	17.5	17.4
13 Fort Smith .....	68.7	65.2	65.0	1.2	1.2	1.2	2.6	2.2	2.2	21.9	19.8	19.8
14 Little Rock—North Little Rock .....	180.1	180.1	179.6	(1)	(1)	(1)	9.0	9.5	9.3	29.4	26.3	26.2
15 Pine Bluff .....	32.0	30.9	30.8	(1)	(1)	(1)	1.9	2.0	1.9	6.3	5.4	5.5
<b>16 CALIFORNIA</b> .....	10,127.6	9,957.1	9,955.6	49.1	47.2	47.2	440.6	370.0	361.0	2,025.2	1,943.9	1,914.9
17 Anaheim—Santa Ana—Garden Grove .....	870.1	853.1	857.5	2.8	2.9	2.6	49.8	42.1	41.4	224.4	214.9	213.3
18 Bakersfield .....	137.3	133.9	134.8	14.3	14.3	14.3	7.1	6.0	5.9	10.2	9.5	9.4
19 Fresno .....	184.1	182.8	183.1	1.0	1.0	1.0	10.0	8.7	8.6	24.1	23.9	24.3
20 Los Angeles—Long Beach .....	3,658.1	3,570.7	3,590.5	14.7	14.1	14.1	122.4	102.0	101.3	918.2	853.1	849.6
21 Modesto .....	91.5	95.1	90.7	.1	.1	.1	5.3	4.8	4.8	20.9	25.5	21.1
22 Oxnard—Simi Valley—Ventura .....	161.6	159.0	160.4	3.0	3.0	2.9	7.4	6.2	6.2	26.6	26.6	26.6
23 Riverside—San Bernardino—Ontario .....	442.7	431.7	435.0	2.1	1.6	1.5	23.8	21.9	21.9	65.8	58.5	58.2
24 Sacramento .....	410.9	408.4	405.4	.7	.7	.7	18.3	16.9	16.2	27.5	29.5	27.6
25 Salinas—Seaside—Monterey .....	91.5	90.7	91.2	.4	.4	.4	3.3	3.4	3.4	8.9	9.9	9.9
26 San Diego .....	659.9	651.3	651.2	.6	.5	.6	34.5	28.1	28.1	102.9	104.4	103.8
27 San Francisco—Oakland .....	1,555.8	1,575.5	1,582.8	4.3	4.4	4.4	76.6	75.0	74.6	201.2	191.1	189.1
28 San Jose .....	694.7	699.9	700.8	.1	.1	.1	23.8	23.0	23.1	248.8	258.0	252.7
29 Santa Barbara—Santa Maria—Lompoc .....	124.3	122.9	124.3	1.6	1.4	1.4	5.0	4.5	4.4	17.9	19.0	18.7
30 Santa Rosa .....	97.1	96.4	97.2	.5	.5	.5	5.8	4.9	4.9	15.8	16.3	16.2
31 Stockton .....	125.1	124.3	123.5	.1	.1	.1	5.8	5.7	5.6	22.6	24.8	22.2
32 Vallejo—Fairfield—Napa .....	103.3	100.8	103.2	.5	.5	.5	5.2	4.8	4.9	11.5	11.4	10.8
<b>33 COLORADO</b> .....	1,295.2	1,279.6	1,285.4	43.6	40.3	38.2	76.4	77.3	76.8	187.4	175.6	176.2
34 Denver—Boulder .....	830.9	823.5	825.2	26.9	27.8	27.1	44.4	45.7	45.1	129.9	122.9	122.2
<b>35 CONNECTICUT</b> .....	1,442.2	1,415.4	1,416.5	(2)	(2)	(2)	55.0	54.0	53.9	433.8	398.5	395.6
36 Bridgeport .....	172.1	167.9	167.3	(2)	(2)	(2)	4.6	4.9	4.9	65.2	62.0	60.8
37 Hartford .....	399.9	397.0	398.9	(2)	(2)	(2)	12.7	12.5	12.5	94.7	89.6	88.8
38 New Britain .....	63.5	60.0	59.9	(2)	(2)	(2)	2.6	2.6	2.7	28.7	25.1	24.8
39 New Haven—West Haven .....	191.3	189.9	190.9	(2)	(2)	(2)	6.7	7.0	6.7	41.3	39.5	39.9
40 Stamford .....	112.7	113.0	112.1	(2)	(2)	(2)	5.9	5.9	5.6	31.9	30.7	30.6
41 Waterbury .....	88.5	88.1	87.5	(2)	(2)	(2)	2.8	3.3	3.1	32.4	30.2	29.7
<b>42 DELAWARE</b> .....	260.4	258.9	258.6	(1)	(1)	(1)	14.9	14.6	14.6	71.5	69.6	69.3
43 Wilmington .....	230.4	223.7	224.9	(1)	(1)	(1)	15.1	14.7	15.0	65.4	62.2	61.8
<b>44 DISTRICT OF COLUMBIA</b> .....	605.5	604.7	602.9	(1)	(1)	(1)	12.0	12.0	12.0	14.1	14.5	14.3
45 Washington SMSA .....	1,593.9	1,591.6	1,592.1	(1)	(1)	(1)	76.1	69.4	70.5	58.3	61.6	61.4
<b>46 FLORIDA</b> .....	3,731.4	3,726.4	3,757.0	10.9	9.5	9.4	287.3	250.8	246.9	468.6	445.3	445.2
47 Daytona Beach .....	79.1	76.8	77.5	-	-	-	5.2	4.1	3.9	8.6	8.3	8.5
48 Fort Lauderdale—Hollywood .....	355.6	341.8	340.6	(1)	(1)	(1)	28.8	24.6	24.1	41.2	37.9	37.7
49 Fort Myers—Cape Coral .....	71.0	71.5	71.9	(1)	(1)	(1)	8.7	8.2	8.4	3.9	4.2	4.3
50 Gainesville .....	70.4	67.1	67.2	(1)	(1)	(1)	3.3	2.9	3.0	4.5	4.3	4.3
51 Jacksonville .....	302.1	302.6	301.6	(1)	(1)	(1)	18.3	17.9	17.9	34.5	32.7	31.1
52 Lakeland—Winter Haven .....	120.4	109.3	112.1	5.9	4.0	3.9	10.2	7.5	7.5	21.7	17.7	19.4
53 Melbourne—Titusville—Cocoa .....	106.5	104.5	104.6	(1)	(1)	(1)	6.3	5.7	5.5	24.4	23.9	23.6
54 Miami .....	740.1	720.2	721.0	(1)	(1)	(1)	39.0	33.7	33.6	98.4	95.8	95.9
55 Orlando .....	297.7	298.9	300.1	(1)	(1)	(1)	20.6	19.6	19.1	38.6	37.1	36.9
56 Pensacola .....	95.5	99.1	99.3	(1)	(1)	(1)	7.0	6.4	6.8	12.5	12.1	12.1
57 Sarasota .....	72.0	71.1	72.1	(1)	(1)	(1)	7.3	6.2	6.2	6.2	5.8	5.8
58 Tallahassee .....	76.9	75.0	75.8	(1)	(1)	(1)	3.3	3.6	3.7	2.9	2.9	2.9
59 Tampa—St. Petersburg .....	571.8	564.5	565.5	(1)	(1)	(1)	41.9	36.5	36.2	79.5	76.2	76.1
60 West Palm Beach—Boca Raton .....	221.1	214.3	216.0	(1)	(1)	(1)	20.6	16.9	16.5	28.7	27.7	27.5

See footnotes at end of table.

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	
71.7	66.6	68.3	273.6	271.8	270.6	59.2	59.1	59.0	213.7	214.3	215.8	292.7	288.7	294.0	1
29.7	27.6	28.3	81.3	81.2	81.0	22.9	22.7	22.7	69.3	71.3	71.5	54.4	52.6	54.4	2
2.6	2.6	2.6	22.3	22.8	22.7	3.6	3.5	3.5	19.3	20.0	19.9	34.9	35.1	35.6	3
10.2	9.5	9.7	37.0	35.5	35.5	7.3	7.1	7.2	30.2	30.7	30.7	26.7	26.1	26.7	4
4.5	4.4	4.4	23.4	23.1	23.0	6.3	6.3	6.3	21.0	21.3	21.0	29.2	28.5	28.4	5
1.7	1.7	1.7	10.0	9.7	9.7	1.7	1.7	1.7	6.6	6.5	6.4	18.3	17.4	18.5	6
18.0	19.8	18.7	32.3	34.8	34.5	8.7	9.5	9.3	32.4	34.3	33.5	57.9	60.8	61.4	7
54.5	54.7	54.8	256.4	257.1	258.9	62.3	61.7	61.7	217.5	220.2	222.2	205.6	205.1	210.2	8
33.4	34.0	34.0	171.1	170.5	172.3	48.2	47.4	47.5	142.7	144.4	146.8	102.5	102.5	104.9	9
9.0	8.8	8.8	42.5	43.6	43.3	9.0	9.1	9.1	42.1	42.4	42.7	45.2	46.1	47.0	10
44.9	44.0	44.8	161.8	162.7	161.4	32.1	33.1	33.0	117.4	119.4	118.4	140.6	141.0	144.6	11
3.9	4.2	4.3	16.6	16.9	17.0	2.3	2.3	2.3	10.1	9.8	9.7	11.6	11.4	11.6	12
3.6	3.3	3.2	14.5	13.5	13.8	2.6	2.6	2.6	12.0	12.1	12.0	10.3	10.1	10.2	13
13.5	13.5	13.6	42.3	42.8	42.6	12.7	13.1	13.0	36.0	37.6	37.3	37.2	37.3	37.6	14
3.9	3.6	3.5	6.4	6.4	6.3	1.3	1.4	1.4	5.3	5.5	5.6	6.9	6.6	6.6	15
556.3	555.4	549.1	2,345.9	2,344.9	2,332.5	652.8	658.2	655.0	2,300.9	2,352.1	2,349.5	1,756.8	1,685.4	1,746.4	16
30.2	29.2	29.1	212.7	217.5	217.3	62.4	61.2	61.1	183.6	188.6	188.4	104.2	96.7	104.3	17
8.0	7.5	7.4	34.6	34.2	34.2	5.3	5.3	5.4	25.2	25.5	25.5	32.6	31.6	32.7	18
11.0	10.9	10.7	48.7	49.0	48.6	11.6	11.8	11.8	37.9	38.3	37.9	39.8	39.2	40.2	19
200.6	199.5	195.0	826.8	833.2	837.1	242.0	239.8	239.7	868.9	884.9	886.9	464.5	444.1	466.8	20
4.0	3.9	3.9	22.7	22.2	22.3	3.6	3.6	3.6	17.9	18.2	18.0	17.0	16.8	16.9	21
7.1	7.0	7.0	38.4	39.5	39.1	8.5	8.5	8.5	32.7	32.5	32.6	37.9	35.7	37.5	22
26.5	25.8	25.7	109.4	109.9	110.0	19.9	19.8	19.8	94.1	95.5	96.8	101.1	98.7	101.1	23
22.9	21.7	21.7	96.4	95.7	95.4	22.9	22.5	22.4	78.5	78.4	77.6	143.7	143.0	143.8	24
5.0	4.9	4.8	24.0	24.2	23.9	4.4	4.4	4.4	20.5	20.6	20.5	25.0	22.9	23.9	25
29.7	29.3	29.0	152.0	149.9	148.7	41.2	40.7	40.7	157.3	160.6	160.3	141.7	137.8	140.0	26
131.4	127.3	126.6	367.7	366.1	367.1	152.3	152.8	152.9	377.8	384.6	386.3	284.5	274.2	281.8	27
23.1	22.1	21.9	130.9	133.6	134.0	28.8	28.3	28.3	160.6	161.3	163.6	78.6	73.5	77.1	28
5.5	5.4	5.4	29.4	29.3	29.3	5.9	6.0	6.0	34.3	34.9	34.9	24.7	22.4	24.2	29
5.0	4.9	4.9	23.6	23.7	23.8	6.0	6.0	6.0	20.3	20.7	20.7	20.1	19.4	20.2	30
8.4	8.2	7.9	29.9	28.2	29.7	5.3	5.4	5.4	25.6	25.4	25.4	27.4	26.5	27.2	31
4.6	4.6	4.5	22.7	23.0	22.8	3.5	3.4	3.4	20.5	20.1	20.7	34.8	33.0	35.6	32
82.8	80.6	80.6	313.4	317.1	317.9	80.0	82.5	82.5	266.1	272.6	272.1	245.6	233.5	241.2	33
57.8	56.4	56.4	195.9	196.6	197.2	57.0	59.0	59.1	180.1	182.6	182.5	138.9	132.5	135.7	34
61.6	61.2	61.2	303.6	310.1	309.2	112.5	116.2	116.0	292.5	301.4	301.9	183.2	174.0	178.7	35
6.1	6.2	6.2	35.4	34.9	35.1	7.8	7.8	7.8	36.2	35.9	36.1	16.8	16.2	16.4	36
14.7	14.6	14.8	85.0	86.0	86.3	61.3	63.8	63.6	76.4	77.3	78.5	55.1	53.2	54.4	37
3.3	3.4	3.4	10.4	10.5	10.3	1.9	1.9	1.9	10.1	10.5	10.4	6.5	6.0	6.4	38
15.8	15.7	15.8	41.0	41.1	41.6	11.1	11.6	11.3	50.4	50.9	51.1	25.0	24.1	24.5	39
4.6	4.7	4.8	25.5	26.2	26.0	8.4	8.6	8.5	26.1	26.6	26.3	10.3	10.3	10.3	40
3.1	3.2	3.1	15.9	16.5	16.6	3.8	3.9	3.9	19.0	19.8	19.5	11.5	11.2	11.6	41
12.3	11.7	11.7	56.3	57.6	56.7	12.9	12.8	12.7	48.6	49.4	49.3	43.9	43.1	44.3	42
12.0	11.4	11.3	47.2	46.4	46.5	12.0	12.0	11.9	43.8	43.9	43.9	34.9	33.2	34.4	43
26.5	26.7	26.6	64.1	64.1	63.9	34.0	33.9	33.6	188.4	188.6	188.8	266.4	264.9	263.7	44
72.2	73.7	73.8	311.4	315.3	316.2	91.5	92.8	91.9	449.7	455.6	451.1	534.7	523.2	527.2	45
227.4	230.9	231.2	978.3	1,006.1	1,021.3	274.6	276.7	279.0	870.0	911.8	921.6	614.3	595.3	602.4	46
3.2	3.2	3.3	22.1	22.2	22.0	4.8	4.7	4.8	20.5	20.8	20.9	14.7	13.5	14.1	47
17.7	17.6	17.5	102.7	98.5	97.8	31.6	30.7	30.3	85.6	84.3	85.1	48.0	48.2	48.1	48
4.3	4.5	4.4	19.9	19.9	19.9	6.5	6.7	6.7	16.4	16.2	16.2	11.9	11.8	12.0	49
1.6	1.7	1.7	15.1	14.2	14.0	3.2	3.2	3.2	14.3	13.8	14.1	28.4	27.0	26.9	50
24.7	25.3	25.3	78.5	78.5	78.7	28.0	28.0	27.9	64.4	65.6	66.0	53.7	54.6	54.7	51
5.3	5.0	5.0	29.6	27.4	28.7	6.7	6.9	6.9	24.0	23.7	23.8	17.0	17.1	16.9	52
4.6	4.6	4.6	22.4	21.7	22.2	4.4	4.1	4.2	26.2	25.8	26.0	18.2	18.7	18.5	53
72.7	70.9	70.7	196.3	190.1	191.5	57.6	55.6	55.4	181.8	178.6	178.3	94.3	95.5	95.6	54
15.0	15.5	15.5	78.6	79.0	79.5	20.5	20.5	20.6	80.8	83.2	83.5	43.6	44.0	45.0	55
4.8	4.8	4.6	24.1	24.4	24.6	4.4	4.6	4.6	20.9	21.7	21.4	25.8	25.1	25.2	56
3.2	3.2	3.3	21.3	21.4	21.9	5.8	5.8	5.9	18.3	18.3	18.5	9.9	10.4	10.5	57
3.0	3.1	3.1	15.7	15.3	15.4	3.5	3.5	3.4	13.9	14.3	14.9	34.6	32.3	32.4	58
32.2	32.9	33.0	157.5	155.6	155.8	41.3	42.0	41.9	136.6	136.5	136.8	82.8	84.8	85.7	59
9.5	10.3	10.4	57.7	55.6	55.5	18.6	17.4	17.7	54.6	52.7	54.0	31.4	33.7	34.4	60

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and areas	Total			Mining			Construction			Manufacturing		
	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P
<b>1 GEORGIA</b> .....	2,192.3	2,149.9	2,158.3	7.8	7.9	7.8	102.4	97.9	97.3	521.0	494.4	491.5
2 Albany.....	44.8	44.1	44.2	(1)	(1)	(1)	2.1	2.4	2.4	12.1	11.8	11.9
3 Atlanta.....	955.3	996.2	1,000.3	(1)	(1)	(1)	45.1	44.5	44.9	148.3	140.4	140.8
4 Augusta.....	123.1	122.5	122.6	(1)	(1)	(1)	5.2	5.3	5.2	36.1	33.6	33.5
5 Columbus.....	81.2	77.0	77.9	(1)	(1)	(1)	5.1	4.4	4.7	21.8	18.9	18.9
6 Macon.....	58.3	97.9	97.8	(1)	(1)	(1)	3.8	3.5	3.3	17.3	17.3	17.1
7 Savannah.....	89.8	87.9	87.6	(1)	(1)	(1)	4.9	4.8	4.6	17.0	16.1	16.2
<b>8 HAWAII</b> .....	400.1	393.4	397.5	-	-	-	21.8	18.3	17.9	21.7	22.5	21.2
9 Honolulu.....	329.2	321.2	325.7	-	-	-	18.1	14.4	14.1	15.8	16.5	15.4
<b>10 IDAHO</b> .....	333.1	317.0	314.8	5.4	3.3	3.5	17.7	14.5	14.2	54.2	50.6	48.7
11 Boise City <sup>2</sup> .....	78.2	75.5	75.8	(1)	(1)	(1)	6.0	4.8	4.5	8.9	8.9	9.2
<b>12 ILLINOIS</b> .....	4,784.9	4,600.8	4,583.6	29.1	28.0	27.7	188.1	168.7	169.2	1,127.8	1,004.8	971.9
13 Bloomington—Normal.....	52.5	49.2	50.3	(2)	(2)	(2)	1.8	1.8	1.7	7.2	5.7	5.7
14 Champaign—Urbana—Rantoul.....	75.4	74.9	76.7	(2)	(2)	(2)	1.8	1.3	1.2	7.9	7.6	7.5
15 Chicago—Gary.....	3,487.4	3,374.5	(*)	4.4	4.1	(*)	124.1	118.5	(*)	854.9	769.2	(*)
16 Chicago SMSA <sup>1</sup> .....	3,240.3	3,149.2	3,144.9	4.3	4.0	4.0	108.8	104.7	104.8	767.4	695.0	689.4
17 Davenport—Rock Island—Moline.....	162.5	151.1	147.7	(2)	(2)	(2)	8.0	7.7	7.7	49.1	40.1	36.7
18 Decatur.....	55.7	52.2	49.9	(2)	(2)	(2)	2.5	2.3	2.3	20.1	17.2	14.7
19 Kankakee.....	32.9	31.9	31.4	(2)	(2)	(2)	1.8	1.6	1.4	8.1	7.6	7.4
20 Peoria.....	149.1	135.2	123.2	(2)	(2)	(2)	7.2	7.5	7.2	48.5	36.3	24.5
21 Rockford.....	117.7	108.2	107.7	(2)	(2)	(2)	3.8	3.7	3.7	49.5	42.1	37.3
22 Springfield.....	87.5	87.4	86.9	(2)	(2)	(2)	4.3	4.2	4.1	6.3	6.2	5.6
<b>23 INDIANA</b> .....	2,124.0	2,030.3	2,011.0	9.9	8.9	8.7	94.1	85.2	84.3	652.9	588.3	570.1
24 Anderson.....	45.9	42.8	42.3	(1)	(1)	(1)	1.1	1.1	1.1	19.9	17.5	17.0
25 Elkhart.....	67.9	65.6	(*)	(1)	(1)	(1)	2.2	1.9	(*)	34.5	33.0	(*)
26 Evansville.....	126.5	123.1	122.6	2.9	2.4	2.4	7.4	6.9	6.7	34.8	32.6	32.0
27 Fort Wayne.....	172.1	163.2	(*)	(1)	(1)	(1)	8.1	7.2	(*)	52.8	47.6	(*)
28 Gary—Hammond—East Chicago <sup>2</sup> .....	247.1	233.0	(*)	(1)	(1)	(1)	15.3	13.8	(*)	87.5	75.7	(*)
29 Indianapolis.....	533.6	515.7	(*)	(1)	(1)	(1)	23.8	22.1	(*)	122.4	111.7	(*)
30 Lafayette—West Lafayette.....	59.1	57.7	(*)	(1)	(1)	(1)	3.0	2.4	(*)	11.2	10.4	(*)
31 Muncie.....	49.2	46.5	(*)	(1)	(1)	(1)	1.4	1.2	(*)	12.1	10.6	(*)
32 South Bend.....	106.9	103.1	(*)	(1)	(1)	(1)	4.4	3.7	(*)	30.7	29.0	(*)
33 Terre Haute.....	61.8	56.6	56.4	1.5	1.3	1.3	3.3	2.5	2.4	14.8	13.0	12.7
<b>34 IOWA</b> .....	1,058.3	1,049.5	1,050.2	2.1	2.0	2.0	48.6	44.0	43.0	236.1	206.6	202.5
35 Cedar Rapids.....	81.3	75.2	75.8	(1)	(1)	(1)	3.5	3.2	3.1	25.8	22.2	22.1
36 Des Moines.....	176.8	169.3	169.9	(1)	(1)	(1)	6.5	5.6	5.4	23.1	20.2	20.0
37 Dubuque.....	41.5	37.3	37.2	(1)	(1)	(1)	1.3	1.2	1.1	14.0	9.9	9.9
38 Sioux City.....	50.0	47.7	48.4	(1)	(1)	(1)	2.1	1.6	1.6	9.5	8.2	8.7
39 Waterloo—Cedar Falls.....	64.7	60.3	59.7	(1)	(1)	(1)	2.2	2.2	2.2	22.7	19.1	18.4
<b>40 KANSAS</b> .....	953.1	918.9	919.9	19.7	17.3	17.4	42.0	37.3	37.3	186.9	161.1	159.2
41 Lawrence.....	29.0	28.0	28.3	(2)	(2)	(2)	1.0	.8	.8	4.6	4.4	4.3
42 Topeka.....	85.3	82.8	82.7	.2	.2	.2	3.2	2.9	2.8	9.7	8.6	8.5
43 Wichita.....	208.2	193.9	194.7	3.8	3.6	3.7	10.0	9.2	9.2	63.3	51.0	51.5
<b>44 KENTUCKY</b> .....	1,208.7	1,146.8	1,148.6	54.3	50.4	49.8	53.1	46.1	46.1	275.0	243.6	241.4
45 Lexington—Fayette.....	147.0	141.4	143.9	(1)	(1)	(1)	5.9	4.9	5.0	29.3	26.2	26.8
46 Louisville.....	384.1	364.6	363.8	(1)	(1)	(1)	18.6	17.0	16.8	98.0	81.4	78.6
47 Owensboro.....	31.2	27.7	27.7	1.2	.8	.8	1.7	1.2	1.3	6.6	5.7	5.7
<b>48 LOUISIANA</b> .....	1,649.4	1,611.2	1,614.4	99.2	97.4	97.0	142.8	131.0	131.3	222.8	197.1	197.3
49 Alexandria.....	54.0	54.6	54.8	(1)	(1)	(1)	3.9	4.0	3.9	5.6	5.6	5.6
50 Baton Rouge.....	209.2	205.1	206.9	1.2	1.3	1.3	25.8	18.6	19.0	26.7	24.8	24.7
51 Lafayette.....	93.0	98.1	98.3	18.6	20.0	19.4	5.8	6.0	6.0	5.0	5.4	5.4
52 Lake Charles.....	71.7	63.7	63.7	2.5	2.3	2.2	10.6	5.6	5.5	13.3	10.8	10.7
53 Monroe.....	50.2	49.6	49.0	.7	.6	.6	3.4	3.5	3.6	7.8	6.6	6.4
54 New Orleans.....	521.1	508.2	508.1	20.9	21.5	21.5	30.3	30.3	29.9	53.0	47.2	47.0
55 Shreveport.....	152.7	147.8	146.9	8.5	6.1	6.2	8.1	8.2	7.9	29.0	25.3	25.2
<b>56 MAINE</b> .....	419.1	414.1	413.3	(1)	(1)	(1)	18.6	18.6	18.6	112.2	108.5	107.2
57 Lewiston—Auburn.....	34.7	33.8	33.8	(1)	(1)	(1)	1.4	1.3	1.4	11.6	10.7	10.6
58 Portland.....	94.5	95.5	97.2	(1)	(1)	(1)	3.8	4.1	4.1	17.7	17.1	17.1
<b>59 MARYLAND</b> .....	1,708.3	1,669.9	1,680.7	(1)	(1)	(1)	96.2	82.7	83.5	231.1	209.2	208.4
60 Baltimore SMSA.....	555.3	932.1	939.5	(1)	(1)	(1)	44.3	36.6	36.7	155.3	139.0	137.0
61 Baltimore City <sup>2</sup> .....	444.3	431.4	433.9	(1)	(1)	(1)	17.5	13.2	13.2	62.7	58.0	57.1

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			
JCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	JCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	
144.4	141.5	140.4	504.9	495.5	456.8	113.9	116.0	115.9	361.7	368.1	368.9	436.1	428.7	439.7	1
2.3	2.2	2.2	9.3	9.4	5.4	2.0	2.1	2.1	6.3	5.9	5.9	10.7	10.3	10.3	2
90.1	89.4	89.3	270.0	273.9	275.5	67.3	68.2	68.0	211.8	220.3	220.4	162.6	159.6	161.5	3
4.4	4.5	4.5	22.6	23.7	23.8	4.4	4.7	4.6	18.2	18.3	18.5	32.3	32.4	32.4	4
3.3	3.2	3.1	15.9	15.4	15.3	5.4	5.5	5.4	11.4	11.3	10.9	18.5	18.4	19.5	5
4.6	4.4	4.4	20.1	20.7	20.6	6.3	6.0	6.1	17.3	16.8	16.9	28.9	29.2	29.5	6
9.0	7.9	7.6	22.2	22.0	21.9	4.1	4.2	4.2	16.4	16.4	16.5	16.3	16.5	16.6	7
31.2	30.4	30.1	104.8	105.0	104.5	32.1	31.8	31.8	100.5	101.2	101.8	88.0	84.2	90.2	8
26.0	25.3	25.0	87.0	87.2	86.9	27.5	27.4	27.4	80.1	80.2	80.6	74.7	70.2	76.3	9
20.0	19.2	19.0	82.0	79.4	79.1	23.0	22.6	22.6	60.6	59.2	58.5	70.2	68.2	69.2	10
5.2	5.0	4.9	19.7	19.5	19.8	8.0	7.6	7.6	14.4	14.8	14.5	16.0	14.8	15.3	11
284.3	271.4	271.6	1,103.4	1,075.8	1,077.9	315.7	316.6	314.7	963.9	972.3	975.9	772.6	763.2	774.7	12
3.1	3.0	3.0	12.5	11.9	12.0	7.7	7.9	7.9	8.3	8.4	8.4	11.9	10.5	11.6	13
2.6	2.6	2.6	19.7	19.4	19.5	2.5	2.4	2.4	11.7	11.5	11.5	33.2	30.1	32.0	14
212.3	204.8	(*)	818.0	801.6	(*)	253.6	250.1	(*)	739.1	750.4	(*)	481.0	475.8	(*)	15
197.6	190.9	190.4	766.9	751.8	752.6	244.5	241.2	240.4	701.3	710.5	710.1	449.5	451.1	453.2	16
6.9	6.6	6.7	40.5	39.4	35.4	7.1	7.1	7.1	24.8	24.1	24.0	26.1	26.1	26.1	17
5.2	5.2	4.8	11.6	11.4	11.6	2.7	2.6	2.6	8.7	8.6	8.6	4.9	4.9	5.3	18
1.4	1.4	1.4	7.0	6.7	6.7	1.1	1.1	1.1	6.5	6.2	6.2	7.0	7.3	7.2	19
7.9	7.8	7.8	34.9	33.7	33.5	7.1	7.0	7.0	25.9	25.5	25.8	17.6	17.4	17.4	20
4.4	4.2	4.3	24.8	23.5	27.9	4.2	4.2	4.0	18.6	18.6	18.5	12.4	11.9	12.0	21
4.8	4.5	4.6	18.9	18.7	18.9	6.7	6.5	6.5	18.4	18.2	18.1	28.1	29.1	29.1	22
103.4	98.7	98.2	470.8	462.5	461.8	101.4	99.6	99.5	344.0	348.9	347.0	347.5	337.8	341.3	23
1.3	1.1	1.1	9.4	9.1	9.0	1.6	1.6	1.6	7.2	7.3	7.3	5.4	5.1	5.2	24
2.1	2.0	(*)	13.1	12.8	(*)	2.1	2.1	(*)	9.0	9.0	(*)	4.9	4.8	(*)	25
7.1	7.0	6.9	31.4	31.5	31.6	4.7	4.7	4.6	25.6	25.6	25.7	12.6	12.4	12.7	26
11.0	10.3	(*)	42.3	40.8	(*)	10.5	10.5	(*)	29.4	28.8	(*)	18.0	18.0	(*)	27
14.7	13.6	(*)	51.1	51.1	(*)	9.1	9.0	(*)	37.9	38.3	(*)	31.5	31.5	(*)	28
31.2	30.0	(*)	133.2	131.1	(*)	38.6	38.2	(*)	97.8	99.6	(*)	86.6	84.0	(*)	29
1.4	1.4	(*)	11.3	11.4	(*)	2.5	2.5	(*)	9.4	9.5	(*)	20.3	20.1	(*)	30
2.1	2.0	(*)	12.4	12.1	(*)	1.5	1.4	(*)	8.4	8.5	(*)	11.3	10.7	(*)	31
4.6	4.3	(*)	25.5	24.8	(*)	5.2	5.2	(*)	23.6	23.8	(*)	12.9	12.3	(*)	32
3.4	3.1	3.1	14.9	13.4	13.3	2.0	1.8	1.8	9.6	9.3	9.4	12.3	12.2	12.4	33
53.7	50.7	50.7	274.3	267.6	266.8	59.2	59.4	59.2	211.5	211.5	212.6	212.7	207.6	213.5	34
3.7	3.7	3.6	18.8	17.6	17.7	4.3	4.1	4.1	16.0	15.6	16.1	9.2	8.8	9.1	35
11.1	11.1	11.1	46.0	44.2	44.6	22.0	22.7	22.6	41.3	39.7	39.4	26.8	25.8	26.8	36
1.6	1.5	1.6	9.2	8.8	8.9	1.3	1.3	1.3	10.3	10.9	10.8	3.6	3.5	3.6	37
3.8	3.8	3.7	12.9	12.8	12.8	2.8	2.7	2.6	12.7	12.7	12.8	6.2	6.0	6.2	38
2.3	2.3	2.2	13.6	13.3	13.3	2.1	2.0	2.0	11.0	10.9	10.8	10.9	10.4	10.7	39
63.5	62.6	62.7	229.4	225.1	225.3	47.9	47.6	48.0	175.2	179.9	179.9	188.5	188.0	190.1	40
1.5	1.4	1.4	5.5	5.6	5.6	.8	.8	.8	4.3	4.2	4.4	11.3	10.8	11.0	41
8.5	8.2	8.2	18.5	18.1	18.0	5.9	5.8	5.8	17.7	17.7	17.8	21.6	21.3	21.4	42
10.2	10.7	10.5	47.9	45.2	45.1	9.7	9.9	10.0	40.3	40.4	40.3	23.0	23.9	24.4	43
67.7	65.3	65.4	257.8	249.4	250.4	51.3	51.3	51.8	217.7	213.2	215.1	231.8	227.5	228.6	44
7.5	7.5	7.5	32.4	31.7	32.0	7.1	6.7	6.7	30.7	31.1	32.5	34.1	33.3	33.4	45
23.3	22.1	21.9	87.7	87.1	86.3	24.3	23.9	24.3	76.9	78.8	78.9	55.3	54.2	54.9	46
2.3	2.3	2.3	7.1	6.2	6.3	1.3	1.3	1.3	6.2	5.5	5.4	4.8	4.7	4.6	47
133.1	129.9	129.8	375.2	369.6	369.3	75.0	76.1	76.2	291.8	298.7	298.2	309.5	311.4	315.3	48
2.4	2.4	2.4	11.8	11.9	12.1	2.9	3.0	3.0	11.4	11.7	11.7	16.0	16.0	16.1	49
11.2	11.0	11.1	47.1	47.5	48.5	12.3	12.6	12.6	35.9	37.5	37.7	49.0	51.4	52.0	50
7.1	7.8	7.9	24.3	25.5	25.5	3.4	3.5	3.3	17.8	19.1	19.3	11.0	10.8	11.5	51
4.5	4.8	4.9	15.3	15.5	15.5	3.0	2.8	3.0	11.1	10.9	11.0	11.4	11.0	10.9	52
2.5	2.5	2.5	13.3	12.6	12.5	3.9	3.9	3.9	8.9	9.2	9.0	9.7	10.7	10.5	53
55.9	54.1	53.2	131.5	128.4	127.9	31.2	30.9	30.8	116.5	114.9	115.6	81.8	80.9	82.2	54
9.1	9.1	9.1	35.4	34.2	33.5	7.1	7.2	7.2	29.7	32.2	31.6	25.8	25.5	26.2	55
18.5	18.5	18.2	89.0	89.7	88.1	17.2	18.0	18.0	79.9	81.0	79.3	83.7	79.8	83.9	56
1.2	1.2	1.2	8.0	8.3	8.2	1.8	1.7	1.7	7.6	7.7	7.7	3.1	2.9	3.0	57
5.8	5.9	5.9	25.6	26.2	26.6	7.6	8.4	8.4	21.0	22.1	22.0	13.0	11.7	13.1	58
86.2	82.9	84.0	407.7	415.0	414.0	93.3	95.2	94.3	380.0	387.5	382.7	413.8	397.4	413.8	59
57.7	53.8	54.7	223.5	232.2	231.9	57.7	58.1	57.7	201.7	204.5	203.7	215.1	207.9	217.8	60
39.1	37.1	36.9	96.4	97.3	97.0	38.6	38.9	38.5	107.6	107.5	108.5	82.4	79.4	82.7	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 areas	Total			Mining			Construction			Manufacturing		
	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P
<b>1 MASSACHUSETTS</b> .....	2,668.1	2,619.3	2,621.8	(1)	(1)	(1)	84.8	85.0	84.1	671.4	625.5	617.0
2 Boston .....	1,481.2	1,478.3	1,490.5	(1)	(1)	(1)	46.6	47.0	46.2	294.8	287.5	283.0
3 Brockton .....	57.3	56.2	56.6	(1)	(1)	(1)	1.6	1.5	1.5	12.3	11.8	11.4
4 Fall River .....	53.5	53.6	53.0	(1)	(1)	(1)	1.5	1.3	1.3	20.2	19.6	19.3
5 Lawrence—Haverhill .....	115.2	111.0	111.3	(1)	(1)	(1)	3.1	3.0	3.1	46.2	41.9	41.7
6 Lowell .....	79.4	79.5	80.3	(1)	(1)	(1)	2.9	3.1	3.0	29.2	29.9	29.9
7 New Bedford .....	64.5	62.1	62.1	(1)	(1)	(1)	1.7	1.6	1.5	25.9	24.7	24.1
8 Springfield—Chicopee—Holyoke .....	237.1	230.6	230.8	(1)	(1)	(1)	6.4	6.1	6.0	64.2	59.4	58.4
9 Worcester .....	167.2	162.2	164.1	(1)	(1)	(1)	5.2	5.5	5.7	48.1	42.5	41.5
<b>10 MICHIGAN</b> .....	3,404.2	3,222.4	3,208.9	12.0	8.8	8.3	110.0	91.4	94.3	974.3	886.9	837.6
11 Ann Arbor .....	138.4	131.5	129.2	(1)	(1)	(1)	2.3	1.8	1.8	38.0	35.9	29.3
12 Battle Creek .....	€3.2	60.7	60.3	(1)	(1)	(1)	1.6	1.8	1.9	20.0	17.5	17.0
13 Bay City .....	34.8	33.9	34.2	(1)	(1)	(1)	1.1	1.0	1.0	9.1	8.3	8.5
14 Benton Harbor .....	60.4	56.6	56.5	(1)	(1)	(1)	1.9	1.5	1.4	21.5	18.9	18.4
15 Detroit .....	1,635.3	1,541.4	1,541.3	1.1	1.0	1.0	49.0	39.9	43.8	465.2	418.1	396.5
16 Flint .....	189.1	179.2	173.9	(1)	(1)	(1)	6.1	4.5	4.7	71.9	64.2	59.1
17 Grand Rapids .....	273.2	266.1	266.5	(1)	(1)	(1)	11.8	11.1	10.9	90.9	86.9	86.3
18 Jackson .....	50.3	47.7	46.9	(1)	(1)	(1)	1.2	.9	.9	14.0	12.8	11.8
19 Kalamazoo—Portage .....	111.3	108.2	107.3	(1)	(1)	(1)	4.4	4.0	4.0	32.4	30.7	29.8
20 Lansing—East Lansing .....	198.6	184.3	190.6	(1)	(1)	(1)	5.5	3.8	3.7	42.7	38.6	38.3
21 Muskegon—Norton Shores—Muskegon Hts. ....	59.7	58.2	57.0	(1)	(1)	(1)	2.1	2.0	1.9	20.1	19.2	18.4
22 Saginaw .....	83.1	82.1	80.6	(1)	(1)	(1)	2.3	2.4	2.3	28.5	25.9	24.7
<b>23 MINNESOTA</b> .....	1,782.6	1,714.9	1,712.1	16.2	6.4	6.7	76.3	71.2	69.8	366.4	352.5	344.8
24 Duluth—Superior .....	55.3	54.3	54.3	(1)	(1)	(1)	1.9	1.8	1.8	7.5	5.6	5.6
25 Minneapolis—St. Paul .....	1,097.0	1,058.8	1,063.5	(1)	(1)	(1)	41.8	38.0	37.5	243.6	231.1	229.9
26 Rochester .....	51.7	51.2	50.4	(2)	(2)	(2)	1.8	2.2	2.3	10.5	10.2	9.3
27 St. Cloud .....	55.9	53.4	53.5	(1)	(1)	(1)	3.5	3.5	3.5	11.5	11.0	11.1
<b>28 MISSISSIPPI</b> .....	626.1	795.9	796.2	12.9	12.5	12.4	42.3	40.2	39.7	222.9	205.2	201.9
29 Jackson .....	148.6	145.5	145.6	2.1	2.0	1.9	5.9	5.5	5.5	19.1	17.2	16.6
<b>30 MISSOURI</b> .....	1,985.3	1,968.7	1,960.9	7.5	7.4	7.3	92.9	96.7	95.7	430.2	407.3	403.9
31 Kansas City .....	620.8	593.8	593.8	.5	.4	.4	22.1	21.1	21.2	115.3	107.1	107.2
32 St. Joseph .....	35.5	34.7	34.5	(2)	(2)	(2)	2.0	1.7	1.8	7.9	8.0	7.9
33 St. Louis .....	997.3	974.3	978.5	3.6	3.3	3.2	44.8	48.4	48.5	231.3	216.8	216.9
34 Springfield .....	89.2	86.9	86.5	(2)	(2)	(2)	3.4	3.5	3.4	18.6	16.9	16.4
<b>35 MONTANA</b> .....	291.5	283.0	280.3	11.9	10.1	9.5	14.7	14.2	13.2	24.4	21.5	22.1
36 Billings .....	49.6	49.6	49.5	(1)	(1)	(1)	2.7	2.6	2.4	4.7	4.1	4.4
37 Great Falls .....	29.7	29.6	29.4	(1)	(1)	(1)	1.4	1.8	1.6	1.5	1.3	1.3
<b>38 NEBRASKA</b> .....	632.2	612.7	611.7	1.8	1.6	1.5	26.6	25.1	25.0	96.1	82.3	82.2
39 Lincoln .....	99.8	98.2	97.9	(2)	(2)	(2)	3.3	3.0	3.0	13.1	11.9	12.1
40 Omaha .....	267.4	257.9	257.5	(2)	(2)	(2)	10.1	9.5	9.5	36.0	32.6	32.1
<b>41 NEVADA</b> .....	422.4	417.6	416.3	8.0	7.1	7.0	25.6	23.7	23.4	20.8	19.5	19.5
42 Las Vegas .....	234.3	230.9	230.7	.6	.5	.5	14.8	14.0	13.9	7.6	7.1	7.1
43 Reno .....	117.5	117.5	117.4	.7	.8	.8	6.3	5.9	5.7	8.6	7.9	7.9
<b>44 NEW HAMPSHIRE</b> .....	399.4	398.0	393.6	(2)	(2)	(2)	22.7	24.3	24.0	117.4	112.4	111.2
45 Manchester .....	75.8	76.7	76.7	(2)	(2)	(2)	3.3	3.2	3.1	17.4	17.4	17.4
46 Nashua .....	€8.4	68.5	68.7	(2)	(2)	(2)	2.9	2.9	2.9	31.5	30.2	30.2
<b>47 NEW JERSEY</b> .....	3,105.5	3,070.1	3,066.1	2.5	2.4	2.4	119.2	117.6	117.1	777.2	724.4	718.5
48 Atlantic City .....	95.0	104.1	102.2	-	-	-	5.7	6.3	6.4	8.1	6.8	6.8
49 Camden .....	347.3	343.7	345.0	.1	.1	.1	14.1	13.9	14.2	72.0	66.0	66.1
50 Hackensack .....	400.5	387.2	391.6	(1)	(1)	(1)	16.2	14.8	15.1	109.4	104.7	104.1
51 Jersey City .....	227.1	217.9	218.7	-	-	-	5.5	5.9	5.8	68.9	61.6	61.5
52 Long Branch—Asbury Park .....	168.2	169.6	168.8	(1)	(1)	(1)	7.4	6.7	6.8	25.3	23.8	23.6
53 New Brunswick—Perth Amboy—Sayreville .....	296.1	285.1	286.7	(1)	(1)	(1)	11.9	11.4	11.3	91.9	83.0	81.7
54 Newark .....	950.4	935.6	942.9	.9	.8	.8	33.3	33.1	32.6	245.1	229.0	229.5
55 Paterson—Clifton—Passaic .....	192.5	184.1	184.9	(1)	(1)	(1)	7.0	6.3	6.1	67.8	64.7	64.2
56 Trenton .....	163.3	156.9	158.5	(1)	(1)	(1)	3.7	3.8	3.8	33.9	29.0	28.5
57 Vineland—Millville—Bridgeton .....	54.4	51.6	51.4	(1)	(1)	(1)	2.1	1.7	1.6	17.9	16.2	15.6
<b>58 NEW MEXICO</b> .....	478.6	477.9	477.6	31.4	26.4	26.1	34.2	31.9	31.8	34.6	33.3	33.4
59 Albuquerque .....	190.2	192.3	191.8	(1)	(1)	(1)	12.0	12.2	12.2	17.8	17.1	17.1
60 Las Cruces .....	30.9	30.9	32.0	-	-	-	1.7	1.8	1.8	3.0	3.1	3.1

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			
OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	
120.4	118.7	118.3	579.0	586.7	577.1	164.7	169.7	167.0	675.6	678.3	690.9	372.2	355.4	367.4	1
71.0	70.2	69.7	320.7	324.3	325.2	113.4	117.5	116.2	447.3	452.9	465.0	187.4	178.9	185.2	2
3.4	3.4	3.5	15.2	15.4	15.3	2.2	2.2	2.2	10.7	10.8	11.2	11.9	11.1	11.5	3
1.8	1.9	1.9	11.4	12.0	11.9	2.8	3.0	3.0	9.1	9.9	9.5	6.7	5.9	6.1	4
4.9	4.9	4.9	22.2	22.6	22.8	4.4	4.4	4.3	18.9	19.5	19.3	15.5	14.7	15.2	5
3.4	3.2	3.4	16.7	16.7	16.6	2.2	2.2	2.2	13.3	13.6	13.6	11.7	10.8	11.6	6
2.4	2.2	2.2	12.9	12.9	12.7	2.0	2.0	2.0	10.3	10.7	10.7	9.3	8.0	8.9	7
9.4	9.0	8.9	48.5	48.8	48.4	13.4	13.7	13.5	48.9	50.4	49.6	46.3	43.2	46.0	8
7.7	7.9	7.8	36.4	36.7	37.2	10.0	10.6	10.4	36.7	36.5	38.0	23.1	22.5	23.5	9
143.7	135.1	134.3	716.2	690.2	688.9	152.8	151.3	150.5	664.4	667.5	666.7	630.7	591.0	628.2	10
3.4	3.4	3.3	19.9	19.6	19.5	3.9	3.8	3.7	24.2	24.9	24.8	46.6	42.1	46.7	11
2.3	2.2	2.2	10.9	10.7	10.7	4.3	4.3	4.2	11.8	12.0	12.0	12.2	12.2	12.2	12
1.7	1.7	1.7	8.6	9.1	9.2	1.4	1.3	1.3	7.3	7.5	7.3	5.4	5.0	5.1	13
2.2	2.0	2.1	11.7	11.5	11.5	2.0	1.9	1.9	12.4	12.0	12.4	8.7	8.7	8.9	14
76.1	71.2	71.4	359.8	348.9	349.0	87.8	87.4	86.6	353.1	349.6	349.2	243.3	225.3	243.8	15
6.0	6.2	6.2	40.0	38.8	38.2	6.4	6.3	6.3	29.7	29.2	29.7	29.0	30.0	29.6	16
11.2	11.0	11.0	64.5	64.9	64.6	10.9	10.8	10.8	52.6	50.8	52.5	31.3	30.5	30.4	17
5.0	5.1	5.1	10.4	9.5	9.5	1.6	1.6	1.6	9.7	9.8	9.8	8.3	7.9	8.2	18
4.3	4.1	4.1	22.6	22.6	22.4	4.1	4.0	4.0	22.3	22.0	22.0	21.3	20.8	21.1	19
5.5	5.6	5.6	35.9	36.1	36.3	9.3	9.2	9.3	31.1	32.8	32.6	68.6	58.3	64.9	20
3.1	3.1	3.1	12.0	11.8	11.7	1.4	1.4	1.4	10.5	10.5	10.3	10.5	10.2	10.2	21
4.9	4.7	4.7	18.3	18.7	18.5	4.0	3.9	3.9	14.4	15.4	15.3	10.7	11.1	11.3	22
99.0	93.7	93.5	442.4	432.8	425.8	98.1	98.1	97.0	388.5	393.0	392.3	295.7	267.2	282.2	23
6.3	5.0	4.9	15.2	15.1	14.8	2.3	2.1	2.1	14.0	13.7	13.3	12.1	10.9	11.8	24
62.6	59.7	60.1	271.8	264.1	261.2	72.7	72.8	72.2	248.6	252.1	252.6	155.8	140.9	150.0	25
2.0	1.9	1.9	10.5	10.2	10.2	1.5	1.5	1.5	20.1	20.5	20.5	5.4	4.7	4.7	26
3.3	3.1	3.0	13.7	13.3	13.2	1.9	1.9	1.9	10.5	10.0	10.0	11.6	10.6	10.8	27
41.7	40.2	41.0	163.5	163.0	162.5	33.2	32.9	32.9	122.5	120.4	122.0	187.1	181.6	183.7	28
10.1	10.1	10.1	35.0	34.7	34.7	11.2	11.0	11.0	30.8	30.3	30.9	34.4	34.7	34.9	29
138.7	136.3	135.7	468.9	468.4	464.7	108.7	109.4	108.3	410.7	421.8	418.0	331.7	321.4	327.3	30
52.2	48.8	49.2	160.4	151.8	150.6	44.6	43.9	43.7	134.1	132.7	130.0	91.6	88.0	91.5	31
2.1	2.1	2.1	8.6	8.6	8.6	1.9	2.0	1.9	6.7	6.5	6.3	6.3	5.8	5.9	32
72.3	69.3	69.3	228.3	226.6	227.1	57.3	56.8	56.7	225.3	227.0	226.3	134.4	126.1	130.5	33
7.1	7.3	7.2	24.2	23.8	23.7	3.5	3.5	3.5	20.3	20.1	20.3	12.1	11.8	12.0	34
22.6	22.2	22.2	75.6	78.1	77.0	12.8	12.5	12.1	57.8	57.0	56.5	71.8	67.5	67.8	35
4.7	4.5	4.5	16.0	16.8	16.3	2.4	2.5	2.5	11.6	11.4	11.3	7.5	7.7	8.1	36
2.0	2.1	2.1	9.8	9.9	9.9	2.1	2.1	2.0	7.2	7.3	7.3	5.7	5.1	5.2	37
46.5	43.2	43.0	164.7	160.9	161.8	41.2	41.2	41.1	123.6	124.7	124.0	131.7	133.7	133.1	38
7.4	6.8	6.9	22.7	22.3	22.4	7.0	6.9	6.9	17.6	17.3	17.5	28.7	29.9	29.2	39
24.6	22.9	22.8	67.4	65.5	65.8	23.8	23.9	23.9	62.0	61.1	61.0	43.5	42.4	42.4	40
25.4	25.3	25.2	85.8	86.3	86.3	18.6	17.8	17.7	180.3	180.3	179.7	57.9	57.6	57.5	41
14.0	13.9	13.8	48.9	48.7	48.7	10.6	10.2	10.2	110.8	109.2	109.3	27.0	27.3	27.2	42
8.2	8.0	8.0	26.1	26.5	26.6	6.2	5.8	5.7	45.1	46.4	46.5	16.3	16.2	16.2	43
14.7	14.8	14.8	90.8	90.5	89.0	20.7	20.7	20.8	77.1	79.6	77.5	56.0	55.7	56.3	44
4.8	4.8	4.8	20.1	20.3	20.4	6.3	6.3	6.3	15.6	16.1	16.1	8.3	8.6	8.6	45
2.1	2.2	2.2	14.0	14.7	14.8	2.0	2.1	2.0	10.5	11.0	11.0	5.4	5.4	5.6	46
195.5	191.3	191.4	696.1	702.6	695.9	161.7	164.0	163.7	638.1	661.9	655.9	519.2	505.9	521.2	47
4.0	3.9	3.9	19.1	20.0	18.6	5.0	4.7	4.8	40.9	46.9	46.1	16.1	15.5	15.6	48
15.7	15.2	15.1	90.0	89.7	90.0	17.4	17.5	17.5	72.1	75.0	74.7	66.1	66.3	67.3	49
20.7	20.0	20.2	116.3	110.8	111.3	17.8	18.2	18.2	78.4	79.6	81.3	41.7	39.1	41.4	50
25.2	24.1	24.3	46.0	45.5	45.9	8.5	8.5	8.6	32.8	32.7	32.9	40.1	39.6	39.7	51
6.8	6.9	6.8	41.4	44.4	43.9	7.9	8.0	7.8	43.5	45.9	45.0	35.8	33.9	34.9	52
24.0	24.4	24.6	68.2	67.2	68.0	11.6	11.6	11.5	43.3	45.9	45.8	45.3	41.6	43.8	53
75.5	74.8	75.2	182.2	179.6	181.4	65.5	66.6	66.7	207.6	207.6	208.8	143.3	144.1	147.9	54
6.6	6.0	5.9	41.6	38.8	39.4	9.0	8.8	8.9	34.5	34.8	34.8	25.9	24.7	25.6	55
5.3	5.2	5.3	24.3	23.6	24.1	8.5	8.7	8.6	42.6	40.5	41.9	45.1	46.1	46.3	56
3.3	3.0	3.0	8.9	8.8	8.8	2.5	2.6	2.6	8.8	8.7	8.8	10.9	10.6	11.0	57
29.3	29.1	29.2	108.5	111.7	111.6	21.5	22.3	22.2	92.9	96.8	96.1	126.2	126.4	127.2	58
11.9	11.6	11.6	48.6	49.5	49.2	10.9	11.1	11.0	46.1	47.6	48.0	42.9	43.2	42.7	59
1.2	1.3	1.2	5.6	5.8	5.9	1.3	1.2	1.2	4.2	3.9	4.1	13.9	13.8	14.7	60

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and areas	Total			Mining			Construction			Manufacturing		
	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P
<b>1 NEW YORK</b> .....	7,344.8	7,250.8	7,283.4	6.6	6.4	6.4	228.5	220.2	221.1	1,444.1	1,377.2	1,359.8
2 Albany—Schenectady—Troy.....	339.2	336.0	336.8	(1)	(1)	(1)	10.2	10.0	9.5	55.2	51.8	51.1
3 Binghamton.....	115.7	117.0	117.8	(1)	(1)	(1)	4.0	3.9	3.8	43.9	41.9	41.7
4 Buffalo.....	496.9	472.0	471.6	(1)	(1)	(1)	17.7	15.8	15.6	128.7	112.6	108.5
5 Elmira.....	37.1	33.9	34.2	(1)	(1)	(1)	1.2	1.2	1.3	11.4	8.7	8.4
8 Monroe County <sup>2</sup> .....	347.0	341.0	345.3	(1)	(1)	(1)	10.8	10.2	9.9	139.1	138.1	136.2
7 Nassau—Suffolk.....	926.7	928.8	935.1	(1)	(1)	(1)	37.0	35.9	36.0	168.6	165.1	165.0
8 New York—Northeastern New Jersey.....	6,815.0	6,747.0	(*)	2.3	2.2	(*)	216.7	210.8	(*)	1,331.5	1,268.5	(*)
9 New York and Nassau—Suffolk <sup>2</sup> .....	4,752.4	4,738.4	4,761.1	1.9	1.8	1.8	142.9	138.8	141.1	748.4	724.6	719.4
10 New York SMSA <sup>2</sup> .....	3,825.7	3,809.5	3,825.9	1.7	1.6	1.6	105.8	103.0	105.0	579.8	559.5	554.5
11 New York City <sup>1,3</sup> .....	3,371.0	3,357.0	3,373.9	1.4	1.4	1.3	85.4	82.5	84.4	487.9	470.9	467.9
12 Poughkeepsie.....	101.9	102.3	102.9	(1)	(1)	(1)	2.9	2.9	2.7	33.1	34.0	33.7
13 Rochester.....	426.1	417.0	421.8	(1)	(1)	(1)	12.9	12.2	11.8	160.7	158.0	156.0
14 Rockland County <sup>2</sup> .....	82.5	82.9	82.9	(1)	(1)	(1)	2.9	3.0	3.1	16.0	15.4	15.4
15 Syracuse.....	261.0	255.2	257.0	(1)	(1)	(1)	10.3	10.5	10.2	59.3	56.0	54.9
16 Utica—Rome.....	115.2	112.5	113.1	(1)	(1)	(1)	2.8	2.9	2.9	30.1	27.4	26.9
17 Westchester County <sup>2,3</sup> .....	359.8	356.9	356.4	(1)	(1)	(1)	16.7	16.7	16.8	74.6	71.9	69.9
<b>18 NORTH CAROLINA</b> .....	2,467.2	2,344.3	2,350.0	4.7	4.7	4.6	116.7	105.2	104.2	818.2	773.7	767.6
19 Asheville.....	72.5	71.9	71.0	(1)	(1)	(1)	3.3	3.0	2.8	21.8	20.6	20.4
20 Charlotte—Gastonia.....	342.1	331.6	331.8	(1)	(1)	(1)	18.9	17.4	17.2	95.1	91.2	90.9
21 Greensboro—Winston-Salem—High Pt.....	393.5	380.7	381.7	(1)	(1)	(1)	17.5	15.7	15.6	148.9	140.5	139.4
22 Raleigh—Durham.....	276.9	275.2	278.2	(1)	(1)	(1)	14.0	12.9	12.8	45.7	44.5	44.4
<b>23 NORTH DAKOTA</b> .....	256.5	254.0	255.1	11.7	9.6	9.3	18.1	18.2	17.9	16.4	15.6	15.1
24 Fargo—Moorhead.....	63.3	61.8	63.7	(2)	(2)	(2)	3.5	3.4	3.4	4.8	4.8	4.8
<b>25 OHIO</b> .....	4,363.4	4,217.3	4,209.1	31.8	32.7	32.2	166.2	153.7	153.5	1,232.0	1,114.0	1,090.5
26 Akron.....	263.2	255.7	255.2	(*)	(*)	(*)	8.6	7.9	8.0	76.1	69.6	69.0
27 Canton.....	158.9	153.3	152.4	(*)	(*)	(*)	5.7	5.4	5.4	56.0	49.8	48.8
28 Cincinnati.....	577.9	588.9	588.3	(*)	(*)	(*)	23.5	22.2	22.2	158.4	151.1	150.6
29 Cleveland.....	885.3	856.9	855.1	(*)	(*)	(*)	29.6	27.5	27.7	248.7	227.7	223.0
30 Columbus.....	515.4	505.4	512.5	(*)	(*)	(*)	19.4	18.1	17.9	93.6	88.3	88.2
31 Dayton.....	356.9	348.0	347.8	(*)	(*)	(*)	12.3	11.5	11.5	98.1	89.7	87.7
32 Toledo.....	295.3	287.5	289.0	(*)	(*)	(*)	12.6	11.0	11.2	74.1	69.1	67.2
33 Youngstown—Warren.....	201.6	187.4	186.9	(*)	(*)	(*)	6.9	6.3	6.1	68.8	55.1	54.9
<b>34 OKLAHOMA</b> .....	1,212.8	1,203.3	1,196.6	100.3	90.7	87.1	53.9	57.4	55.2	201.8	172.9	173.3
35 Enid.....	26.9	25.7	25.6	3.2	2.7	2.5	1.3	1.3	1.4	3.0	2.2	2.2
36 Lawton.....	29.8	29.4	30.0	(1)	(1)	(1)	1.3	1.5	1.5	3.2	3.1	3.1
37 Oklahoma City.....	430.5	445.9	446.0	27.9	29.0	29.1	22.1	23.0	22.2	57.1	51.2	53.1
38 Tulsa.....	324.5	323.7	321.5	27.2	28.4	28.2	16.2	17.2	16.8	69.2	59.8	59.1
<b>39 OREGON</b> .....	1,023.0	975.3	973.8	2.5	2.6	2.4	37.4	33.1	30.5	204.9	197.8	192.2
40 Eugene—Springfield.....	100.7	94.3	95.1	(1)	(1)	(1)	3.8	2.9	2.7	18.1	18.0	17.1
41 Jackson County.....	—	—	—	—	—	—	—	—	—	7.0	6.5	6.5
42 Portland.....	544.6	518.4	(*)	(1)	(1)	(*)	21.7	19.5	(*)	107.4	99.9	(*)
43 Salem.....	89.7	90.4	88.4	(1)	(1)	(1)	3.3	3.1	3.0	16.2	17.6	15.8
<b>44 PENNSYLVANIA</b> .....	4,733.8	4,487.0	4,486.7	50.0	43.4	42.8	195.6	171.0	168.2	1,295.6	1,139.5	1,119.0
45 Allentown—Bethlehem—Easton.....	265.5	250.0	248.5	(1)	(1)	(1)	8.6	7.4	7.2	104.0	92.1	91.3
46 Altoona.....	49.9	48.4	46.2	(1)	(1)	(1)	2.1	2.2	2.2	12.9	12.1	11.3
47 Delaware Valley <sup>1,2</sup> .....	1,561.5	1,537.0	1,545.3	(1)	(1)	(1)	61.2	56.3	54.8	357.1	330.0	326.8
48 Erie.....	111.5	104.9	104.2	(1)	(1)	(1)	3.4	3.2	3.2	41.3	38.1	36.8
49 Harrisburg.....	226.4	223.5	222.5	(1)	(1)	(1)	8.3	7.5	7.2	41.4	40.0	39.3
50 Johnstown.....	82.7	75.5	74.9	8.4	6.7	6.6	3.0	2.3	2.3	16.7	13.7	13.0
51 Lancaster.....	155.9	148.5	149.0	(1)	(1)	(1)	6.5	6.2	6.3	59.7	55.4	54.3
52 Northeast Pennsylvania.....	240.3	227.7	229.4	1.2	1.1	1.0	12.1	9.8	10.2	68.4	62.0	62.3
53 Philadelphia SMSA.....	1,907.4	1,880.7	1,889.6	(1)	(1)	(1)	75.6	70.2	68.9	429.4	395.9	392.6
54 Philadelphia City <sup>2</sup> .....	752.6	753.6	757.4	(1)	(1)	(1)	19.8	18.9	18.3	130.4	119.9	120.0
55 Pittsburgh.....	547.6	864.7	859.5	9.7	9.0	9.5	50.9	44.2	43.3	233.5	180.0	175.6
56 Reading.....	142.2	134.5	134.5	(1)	(1)	(1)	5.4	3.9	3.8	54.2	51.0	49.9
57 Williamsport.....	46.5	44.6	44.8	(1)	(1)	(1)	1.3	1.4	1.4	15.9	14.5	14.7
58 York.....	158.5	149.2	147.1	(1)	(1)	(1)	7.0	6.6	6.6	66.6	59.4	57.4
<b>59 RHODE ISLAND</b> .....	406.1	394.7	394.6	(1)	(1)	(1)	13.3	12.5	12.6	127.8	118.8	119.0
60 Providence—Warwick—Pawtucket.....	412.9	398.6	398.5	(1)	(1)	(1)	13.5	12.4	12.5	141.8	131.3	131.3
<b>61 SOUTH CAROLINA</b> .....	1,201.0	1,173.8	1,180.1	(1)	(1)	(1)	71.1	65.7	65.6	386.7	358.6	356.5
62 Charleston—North Charleston.....	153.0	153.1	153.0	(1)	(1)	(1)	9.7	10.5	10.5	20.8	18.6	17.7
63 Columbia.....	181.0	177.6	178.8	(1)	(1)	(1)	8.7	8.5	8.8	27.1	25.1	25.1
64 Greenville—Spartanburg.....	268.2	260.2	259.1	(1)	(1)	(1)	16.6	15.0	14.2	101.4	94.1	93.7

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	
432.1	427.0	425.1	1,477.1	1,469.0	1,471.5	658.2	672.9	670.9	1,812.4	1,821.9	1,837.0	1,285.6	1,256.3	1,291.2	1
15.7	15.3	15.2	68.6	68.6	68.1	15.9	16.2	16.1	74.6	75.3	76.4	98.9	98.9	100.3	2
4.7	4.7	4.7	21.2	21.4	21.5	4.2	4.2	4.1	19.6	19.5	19.6	22.0	21.2	22.3	3
26.7	25.4	25.2	110.3	109.5	109.5	22.4	22.5	22.5	107.9	106.6	107.2	83.3	79.7	83.1	4
1.3	1.3	1.3	8.7	8.6	8.7	1.2	1.1	1.1	7.2	7.0	7.3	6.2	5.8	6.1	5
10.3	10.2	10.2	60.6	60.2	62.3	14.2	14.6	14.4	72.2	71.4	73.1	39.7	36.2	39.1	6
41.8	43.6	43.8	240.2	243.6	243.3	52.9	53.0	52.7	217.1	225.3	224.5	169.1	162.4	169.9	7
472.1	466.8	(*)	1,413.5	1,395.1	(*)	664.1	678.2	(*)	1,669.6	1,698.3	(*)	1,049.3	1,027.1	(*)	8
320.1	318.1	317.9	959.2	952.8	955.6	551.7	564.6	563.1	1,275.1	1,296.5	1,304.4	753.1	741.0	757.8	9
278.3	274.5	274.1	718.9	709.2	712.4	498.8	511.6	510.3	1,058.2	1,071.5	1,080.1	584.1	578.6	588.0	10
254.6	251.1	250.7	613.3	604.1	607.1	476.2	488.7	487.7	945.4	956.7	965.1	506.7	501.6	509.7	11
2.9	2.9	2.9	16.5	16.9	16.8	2.9	3.0	3.0	19.7	19.6	20.0	23.9	23.0	23.7	12
12.8	12.6	12.6	78.5	78.6	80.6	15.7	16.1	16.0	84.4	83.7	85.2	61.1	55.7	59.6	13
3.4	3.4	3.4	18.0	18.3	18.2	2.7	2.8	2.8	18.5	19.0	19.2	21.0	21.0	20.9	14
14.5	14.7	14.7	57.2	56.8	56.7	16.3	16.6	16.6	55.6	54.9	56.1	47.7	45.7	47.7	15
4.0	4.1	4.0	22.6	23.0	22.8	5.6	5.6	5.6	21.6	21.4	22.0	28.6	28.2	28.9	16
19.7	19.4	19.4	84.6	83.8	84.0	19.4	19.5	19.4	91.5	92.9	93.0	53.2	52.6	54.0	17
118.3	115.8	116.1	476.8	470.7	473.1	98.2	99.1	99.5	355.9	364.7	365.7	418.3	410.4	419.2	18
3.7	3.5	3.5	16.0	16.3	16.2	2.4	2.4	2.3	13.1	13.6	13.3	12.2	12.5	12.5	19
31.9	31.0	31.0	82.1	79.0	78.6	21.5	21.6	21.5	55.0	54.9	55.5	37.6	36.5	37.1	20
21.5	21.1	21.3	78.2	77.0	77.6	19.0	18.9	18.9	60.8	61.2	61.0	47.6	46.3	47.9	21
13.5	14.3	14.3	53.7	52.7	53.1	15.9	15.8	15.6	60.1	59.8	60.9	77.0	75.2	77.1	22
17.4	16.8	17.1	66.7	67.5	67.0	11.8	12.0	12.0	52.9	54.9	55.0	61.5	59.4	61.7	23
4.0	3.7	3.8	18.8	19.2	19.1	3.9	3.9	3.9	14.7	14.3	15.2	13.6	12.5	13.5	24
221.2	213.6	212.9	953.0	941.5	937.1	206.0	206.9	206.1	870.0	904.1	901.3	683.2	650.8	675.5	25
14.1	13.5	13.4	58.0	58.5	58.2	9.1	9.2	9.2	52.6	54.0	53.4	44.1	42.3	43.4	26
7.2	6.9	7.0	33.2	33.8	33.4	6.3	6.6	6.5	30.3	31.2	31.1	18.8	18.1	18.7	27
33.5	32.7	32.5	140.4	138.2	137.9	32.6	32.3	32.2	125.9	132.0	130.4	83.3	79.9	81.9	28
45.9	44.3	44.2	200.0	196.3	196.2	47.9	48.0	47.6	194.8	199.4	200.0	117.1	112.5	115.2	29
24.7	23.7	23.6	122.1	121.5	122.1	39.8	41.5	41.5	111.1	114.3	115.3	104.0	97.0	103.0	30
13.4	13.1	13.0	73.6	72.7	72.7	13.7	14.1	14.0	75.6	78.8	79.0	69.8	67.7	69.4	31
19.4	15.1	19.0	66.8	65.3	65.4	10.5	10.8	10.8	65.1	67.3	68.0	46.2	44.3	46.8	32
9.4	9.0	9.0	43.9	44.0	43.5	7.2	7.4	7.3	39.3	41.1	40.4	25.3	23.6	24.8	33
68.5	67.5	67.7	284.7	292.0	290.4	58.9	61.8	61.9	203.6	217.5	214.4	241.1	243.5	246.6	34
2.7	2.8	2.7	7.2	7.1	7.1	1.2	1.2	1.2	4.5	4.6	4.6	3.8	3.8	3.9	35
1.3	1.4	1.4	7.4	7.2	7.2	1.2	1.3	1.3	4.8	4.6	4.6	10.6	10.3	10.9	36
24.5	25.4	25.5	107.2	112.4	111.4	26.4	28.2	28.0	73.7	80.1	79.5	91.6	96.6	97.2	37
23.7	24.2	24.2	74.0	74.5	74.4	16.0	16.2	16.0	64.7	67.6	67.0	35.5	35.4	35.8	38
60.1	56.5	56.6	254.9	246.8	245.4	67.2	64.2	64.0	191.6	186.5	185.2	204.4	187.8	197.5	39
4.8	4.7	4.8	25.3	23.9	23.5	5.4	5.3	5.2	19.6	19.7	19.6	23.7	19.8	22.2	40
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41
36.8	35.3	(*)	142.2	139.4	(*)	45.0	44.4	(*)	111.8	104.9	(*)	79.7	75.0	(*)	42
2.8	2.8	2.8	19.1	18.7	18.1	5.7	5.6	5.5	16.0	15.9	16.1	26.6	26.7	27.1	43
260.5	243.7	240.8	997.2	962.1	963.6	240.0	241.6	240.2	1,026.8	1,023.1	1,028.2	668.1	662.6	683.9	44
14.1	13.5	13.5	53.0	50.1	50.1	9.7	9.5	9.5	47.0	48.0	47.4	29.1	29.4	29.5	45
6.2	5.9	5.1	10.7	10.5	10.1	1.5	1.5	1.5	9.0	8.7	8.8	7.5	7.5	7.2	46
82.2	77.8	78.2	333.2	324.7	329.8	111.8	113.1	112.9	419.1	412.3	418.1	196.9	222.8	224.7	47
5.0	4.5	4.5	21.5	21.4	21.3	4.8	4.8	4.8	23.2	22.3	22.5	12.3	10.6	11.1	48
16.8	16.2	16.0	45.2	44.6	44.6	12.7	12.8	12.9	41.4	43.2	42.1	60.6	59.2	60.4	49
4.9	4.7	4.8	15.6	15.1	14.8	4.1	4.0	4.0	15.8	16.0	15.9	14.2	13.0	13.5	50
6.6	5.9	5.7	34.0	33.6	34.2	6.0	6.0	6.0	28.0	28.6	28.8	15.1	12.8	13.7	51
13.1	12.5	12.5	50.3	48.2	48.7	9.9	10.6	10.5	47.9	49.6	49.8	37.4	33.9	34.4	52
97.3	93.0	93.3	423.1	414.4	419.7	129.1	130.6	130.3	490.1	487.4	492.8	262.8	289.2	292.0	53
51.7	48.6	48.9	145.1	139.8	142.7	66.3	65.6	65.6	228.4	219.3	224.3	110.9	141.5	137.6	54
55.8	50.6	50.3	212.1	207.6	206.4	46.1	47.1	46.7	223.4	220.5	221.0	116.1	105.7	106.7	55
6.5	6.6	6.6	28.7	26.6	26.6	6.5	6.4	6.3	24.0	24.2	24.5	16.9	15.8	16.8	56
2.3	2.1	2.2	10.0	9.7	9.7	2.2	2.2	2.1	8.3	8.5	8.4	6.5	6.2	6.3	57
7.6	7.4	7.2	33.4	32.8	32.6	4.1	3.9	3.9	22.1	22.5	22.1	17.7	16.6	17.3	58
13.4	13.5	13.4	82.7	79.9	79.4	21.0	21.2	21.3	89.6	91.2	91.2	58.3	57.6	57.7	59
13.3	13.3	13.3	81.9	78.9	78.3	20.9	21.1	21.0	85.6	87.0	87.2	55.9	54.6	54.9	60
53.9	54.2	54.3	232.5	238.6	237.5	50.2	52.3	52.1	169.9	175.5	176.5	236.7	228.9	237.6	61
8.9	8.7	8.9	33.4	33.8	33.4	6.7	7.2	7.1	26.5	28.7	28.9	47.0	45.6	46.5	62
9.5	9.8	9.7	37.3	36.9	36.7	14.4	14.8	14.9	28.5	27.9	27.9	55.5	54.6	55.7	63
10.1	9.2	9.2	55.0	55.1	55.0	10.1	10.4	10.4	38.8	40.0	39.9	36.2	36.4	36.7	64

# 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 areas	Total			Mining			Contract Construction			Manufacturing		
	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P
<b>1 SOUTH DAKOTA</b> .....	237.7	232.6	233.1	3.0	1.5	2.7	10.8	9.3	9.1	26.1	25.1	24.8
<b>2 Sioux Falls</b> .....	54.9	55.0	55.5	(2)	(2)	(2)	2.6	2.9	3.0	7.4	7.2	7.1
<b>3 TENNESSEE</b> .....	1,756.3	1,709.0	1,706.1	10.6	11.2	11.2	79.9	82.3	82.1	511.6	476.3	470.6
<b>4 Chattanooga</b> .....	169.0	164.9	164.4	1.1	1.4	1.3	5.9	6.0	6.0	48.9	45.5	44.9
<b>5 Knoxville</b> .....	202.6	202.4	202.3	1.6	1.5	1.5	10.2	9.2	9.1	51.2	48.0	47.5
<b>6 Memphis</b> .....	359.4	350.1	349.4	.2	.2	.2	14.2	14.0	13.7	58.7	54.2	54.0
<b>7 Nashville—Davidson</b> .....	363.5	348.4	349.2	(1)	(1)	(1)	17.1	16.7	16.6	83.6	75.9	75.2
<b>8 TEXAS</b> .....	6,244.7	6,211.0	6,196.3	301.2	287.4	282.5	436.3	440.3	438.8	1,118.1	1,025.2	1,011.4
<b>9 Dallas—Fort Worth</b> .....	1,530.9	1,554.4	1,555.7	31.0	33.4	33.0	78.9	83.6	82.6	331.2	311.9	310.9
<b>10 Houston</b> .....	1,582.9	1,533.2	1,532.8	103.3	93.2	93.3	151.9	140.0	140.9	266.2	243.9	241.3
<b>11 San Antonio</b> .....	413.0	411.5	412.4	3.3	3.5	3.4	26.8	27.5	27.4	52.4	48.7	48.5
<b>12 UTAH</b> .....	567.9	564.6	563.8	21.4	18.3	18.2	30.1	28.1	28.0	91.1	87.5	86.5
<b>13 Salt Lake City—Ogden</b> .....	397.8	394.6	394.3	8.1	6.0	5.9	19.8	17.7	17.6	62.1	60.0	59.6
<b>14 VERMONT</b> .....	204.2	203.5	204.5	.7	.6	.6	11.6	11.5	11.4	50.7	49.2	48.9
<b>15 Burlington<sup>1,2</sup></b> .....	60.6	59.9	60.5	-	-	-	-	-	-	15.9	15.5	15.5
<b>16 Springfield<sup>1,3</sup></b> .....	14.6	14.0	14.1	-	-	-	-	-	-	6.1	5.2	5.2
<b>17 VIRGINIA</b> .....	2,175.4	2,172.3	2,172.2	23.6	22.0	21.7	116.5	108.2	107.7	411.9	400.5	399.1
<b>18 Bristol</b> .....	27.3	27.3	26.9	(1)	(1)	(1)	.9	.7	.7	9.3	8.9	8.5
<b>19 Lynchburg</b> .....	71.0	68.8	68.1	(1)	(1)	(1)	2.8	2.7	2.6	28.9	26.6	26.6
<b>20 Newport News—Hampton</b> .....	151.7	155.6	155.0	(1)	(1)	(1)	6.7	6.4	6.2	33.9	36.3	36.6
<b>21 Norfolk—Virginia Beach—Portsmouth</b> .....	291.3	292.1	292.9	(1)	(1)	(1)	17.5	17.5	17.6	30.0	28.6	28.4
<b>22 Northern Virginia<sup>1,4</sup></b> .....	466.7	473.8	476.1	.4	.4	.4	28.6	26.6	26.6	20.3	21.9	22.1
<b>23 Petersberg—Colonial Hgts.—Hopewell</b> .....	44.8	45.3	45.0	(1)	(1)	(1)	1.8	2.1	2.2	10.3	9.8	9.1
<b>24 Richmond</b> .....	327.3	328.5	327.9	.3	.3	.2	17.7	17.1	17.0	56.3	54.0	54.2
<b>25 Roanoke</b> .....	101.8	101.9	101.3	.2	.2	.1	4.5	4.6	4.6	20.6	20.1	19.8
<b>26 WASHINGTON</b> .....	1,556.0	1,574.9	1,566.3	3.2	3.0	3.0	87.9	78.2	76.5	303.5	292.2	288.0
<b>27 Seattle—Everett</b> .....	771.8	(*)	(*)	(1)	(*)	(*)	37.6	(*)	(*)	166.6	(*)	(*)
<b>28 Spokane</b> .....	125.6	(*)	(*)	(1)	(*)	(*)	5.8	(*)	(*)	15.8	(*)	(*)
<b>29 Tacoma</b> .....	140.1	(*)	(*)	(1)	(*)	(*)	7.0	(*)	(*)	21.6	(*)	(*)
<b>30 WEST VIRGINIA</b> .....	636.9	598.5	596.8	67.0	55.2	52.4	29.8	25.6	25.1	111.5	97.5	96.4
<b>31 Charleston</b> .....	111.3	108.5	108.2	6.8	5.7	5.6	6.0	5.0	4.9	16.7	16.2	16.1
<b>32 Huntington—Ashland</b> .....	103.5	97.6	97.6	1.2	1.2	1.2	5.1	4.2	4.2	24.8	21.5	21.0
<b>33 Parkersburg—Marietta</b> .....	58.7	57.1	56.5	1.4	1.4	1.4	3.3	3.0	3.0	16.5	15.4	15.0
<b>34 Wheeling</b> .....	64.3	61.4	61.1	4.4	4.7	4.3	2.8	2.4	2.3	11.9	9.2	8.9
<b>35 WISCONSIN</b> .....	1,943.4	1,882.6	1,875.3	2.2	2.1	2.1	64.9	55.5	55.7	539.7	503.8	489.0
<b>36 Appleton—Oeshkosh</b> .....	127.2	121.1	122.3	(1)	(1)	(1)	5.0	4.7	4.5	47.4	43.8	43.0
<b>37 Eau Claire</b> .....	45.5	47.8	48.0	(1)	(1)	(1)	1.8	1.2	1.2	9.0	8.7	8.5
<b>38 Green Bay</b> .....	80.2	80.0	80.0	(1)	(1)	(1)	3.2	3.3	3.4	22.4	22.0	21.8
<b>39 Janesville—Beloit</b> .....	49.4	49.2	49.3	(1)	(1)	(1)	1.2	1.1	1.2	17.4	17.4	17.2
<b>40 Kenosha</b> .....	37.7	43.1	42.4	(1)	(1)	(1)	1.5	1.5	1.6	12.0	17.6	17.0
<b>41 La Crosse</b> .....	46.5	45.7	45.7	(1)	(1)	(1)	1.6	1.1	1.0	10.4	10.1	9.9
<b>42 Madison</b> .....	175.3	170.8	171.8	(1)	(1)	(1)	6.5	5.1	5.2	20.9	19.8	19.2
<b>43 Milwaukee</b> .....	663.5	626.0	627.7	(1)	(1)	(1)	18.8	15.6	15.3	195.0	167.2	165.8
<b>44 Racine</b> .....	66.7	61.7	61.3	(1)	(1)	(1)	1.5	1.7	1.6	27.3	23.0	22.6
<b>45 WYOMING</b> .....	221.1	218.2	215.8	39.6	39.6	39.6	19.6	18.0	17.4	12.2	10.1	10.7
<b>46 Casper</b> .....	41.2	38.1	37.4	8.0	5.9	5.7	3.5	4.5	4.5	2.1	1.3	1.2
<b>47 Cheyenne</b> .....	31.1	29.9	29.8	(1)	(1)	(1)	1.9	1.6	1.7	1.4	1.4	1.4
<b>48 PUERTO RICO</b> .....	656.2	613.1	624.5	.8	.7	.6	29.3	20.5	21.4	151.7	138.7	140.0
<b>49 Caguas</b> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>50 Mayaguez</b> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>51 Ponce</b> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>52 San Juan</b> .....	(*)	(*)	(*)	(1)	(1)	(1)	20.9	14.7	15.1	(*)	(*)	(*)
<b>53 VIRGIN ISLANDS</b> .....	36.0	34.7	34.6	(2)	(2)	(2)	3.6	3.2	3.1	2.9	2.6	2.6

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

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

<sup>3</sup> Revised to 1981 benchmark; not strictly comparable with previously published data.

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

<sup>5</sup> Subarea Baltimore Standard Metropolitan Statistical Area.

<sup>6</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

<sup>7</sup> Subarea of New York—Northeastern New Jersey.

<sup>8</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>9</sup> Area included in New York and Nassau—Suffolk combined SMSA's.

<sup>10</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>11</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, Philadelphia Counties, Pennsylvania.

<sup>12</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

<sup>13</sup> Total includes data for industry divisions not shown separately.

<sup>14</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			
OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	
12.9	12.8	12.9	64.6	63.5	62.0	11.4	11.7	11.7	52.2	51.9	51.8	56.7	56.8	58.1	1
4.5	4.5	4.4	15.8	15.4	15.6	3.5	3.7	3.7	14.2	14.4	14.7	6.9	6.9	7.0	2
85.8	82.1	82.6	374.2	363.7	362.5	77.8	76.0	75.9	312.8	325.9	327.1	303.6	291.5	294.1	3
7.7	7.3	7.2	34.1	34.0	33.9	9.8	9.8	9.8	29.3	27.9	28.1	32.2	33.0	33.2	4
8.3	7.7	8.0	44.2	44.3	44.1	8.5	9.0	9.0	33.7	37.0	36.4	44.9	45.7	46.7	5
27.5	26.0	25.9	96.5	95.0	95.2	20.1	20.2	20.2	75.8	78.0	77.5	64.4	62.5	62.7	6
20.6	19.1	19.0	78.8	79.1	78.7	24.6	23.7	23.7	78.2	74.7	76.6	60.6	59.2	59.4	7
391.1	383.9	383.3	1,542.0	1,572.8	1,572.0	349.3	359.0	358.2	1,106.6	1,137.2	1,137.9	1,000.1	1,005.2	1,012.2	8
99.4	96.4	96.4	405.1	420.7	422.1	116.3	120.5	120.1	285.7	306.0	307.2	183.3	181.9	183.4	9
109.1	106.4	106.1	382.2	371.0	371.1	93.3	98.1	97.7	307.6	309.5	308.4	169.3	171.1	174.0	10
19.3	18.8	18.8	103.5	103.8	102.9	27.3	28.2	28.3	85.3	85.9	86.5	95.1	95.1	96.6	11
35.2	36.9	36.5	132.2	130.9	130.2	26.4	27.1	27.1	106.0	111.4	111.6	125.7	124.5	125.6	12
27.4	28.7	28.5	98.5	96.6	96.6	21.3	22.0	22.0	71.3	75.4	75.1	89.3	88.2	89.1	13
8.7	8.7	8.7	43.0	44.0	43.8	8.2	8.3	8.2	43.9	45.6	45.4	37.4	35.6	37.5	14
2.4	2.4	2.4	12.6	12.7	12.7	-	-	-	12.4	12.8	12.8	-	-	-	15
.6	.7	.7	2.2	2.3	2.3	-	-	-	2.6	2.7	2.7	-	-	-	16
118.0	117.2	116.2	471.1	477.1	479.7	106.5	107.6	106.3	418.9	430.0	428.9	509.0	509.8	512.6	17
1.1	1.2	1.2	6.5	7.1	7.1	.9	.9	.9	3.5	3.7	3.6	5.2	4.8	4.8	18
2.7	2.6	2.6	12.0	12.4	12.3	3.3	3.3	3.3	11.0	11.4	11.0	10.2	9.7	9.8	19
5.0	5.3	5.3	29.4	30.1	30.2	4.8	4.9	4.8	31.5	32.6	32.0	40.3	40.1	40.0	20
19.8	20.0	20.1	71.5	71.6	71.6	15.0	15.1	15.1	58.6	62.0	60.6	78.9	77.3	79.5	21
31.6	32.0	32.0	112.6	114.8	114.8	29.2	29.5	29.4	125.0	128.3	128.8	119.0	120.3	122.1	22
1.3	1.2	1.2	8.8	9.3	9.4	1.2	1.2	1.3	6.9	7.4	7.4	14.6	14.3	14.5	23
19.9	19.7	19.7	76.0	77.7	77.8	26.1	26.2	26.0	60.1	62.1	61.4	71.0	71.5	71.7	24
9.7	9.8	9.5	24.9	25.4	25.5	6.1	6.0	5.9	20.8	20.9	20.9	15.1	15.0	15.0	25
89.2	87.8	86.7	387.3	387.6	383.4	91.9	91.9	91.2	317.7	326.9	321.5	318.3	307.3	316.0	26
51.0	(*)	(*)	186.7	(*)	(*)	57.7	(*)	(*)	156.2	(*)	(*)	116.0	(*)	(*)	27
8.0	(*)	(*)	35.7	(*)	(*)	7.7	(*)	(*)	30.7	(*)	(*)	21.9	(*)	(*)	28
6.3	(*)	(*)	33.4	(*)	(*)	6.9	(*)	(*)	32.3	(*)	(*)	32.6	(*)	(*)	29
42.3	41.2	40.8	132.3	129.4	129.4	22.0	21.9	21.8	102.6	102.5	102.8	129.4	125.3	128.1	30
9.4	9.3	9.2	26.4	26.1	26.2	5.1	5.1	5.0	20.9	21.4	21.3	19.9	19.6	19.7	31
9.8	8.9	8.8	24.5	24.0	24.1	3.7	3.5	3.5	15.5	15.9	15.7	18.9	18.3	19.1	32
2.4	2.4	2.4	12.9	13.1	12.8	2.1	2.0	2.0	10.3	10.1	10.2	9.8	9.7	9.7	33
3.6	3.6	3.6	15.2	15.3	15.2	2.8	2.8	2.8	13.9	14.2	14.4	9.6	9.2	9.5	34
93.0	87.8	88.5	442.1	434.5	435.6	96.5	97.6	97.5	381.1	389.4	388.9	323.8	311.9	318.0	35
4.4	4.2	4.3	26.9	25.3	26.2	5.6	5.8	5.7	21.7	22.0	22.0	16.2	15.4	16.5	36
2.7	2.7	2.7	13.2	12.9	13.0	1.7	1.7	1.7	10.1	9.8	9.8	11.1	10.9	11.1	37
6.0	6.2	6.2	20.1	20.2	19.9	2.6	2.6	2.6	15.7	15.8	16.0	10.2	9.9	10.0	38
2.2	2.6	2.5	11.0	10.8	10.7	1.4	1.4	1.4	9.1	9.1	9.3	6.9	6.8	7.0	39
1.4	1.3	1.3	8.4	8.1	8.1	1.0	1.0	1.0	7.8	7.7	7.6	5.7	5.9	5.9	40
2.2	1.9	1.9	12.1	12.1	12.2	1.1	1.1	1.1	11.3	12.1	12.2	7.8	7.3	7.5	41
6.4	6.5	6.5	37.6	37.5	38.1	13.5	13.7	13.6	33.6	33.9	34.5	56.9	54.4	54.8	42
34.6	33.1	33.0	142.7	138.9	138.9	40.6	40.9	40.9	148.6	150.4	151.5	83.3	79.9	82.3	43
2.3	2.4	2.4	13.4	13.0	13.1	2.3	2.3	2.3	11.1	11.2	11.1	8.7	8.1	8.2	44
17.7	16.9	17.1	49.9	48.7	48.0	7.5	7.4	7.4	31.2	32.5	30.5	43.4	45.0	45.1	45
2.8	2.4	2.5	10.9	9.7	9.7	1.8	1.8	1.8	5.8	5.2	5.1	6.3	7.3	6.9	46
4.5	3.9	3.6	7.2	7.5	7.5	1.6	1.5	1.5	5.6	5.2	5.0	8.9	8.8	9.1	47
15.9	14.0	14.6	109.8	102.0	102.4	27.9	27.7	27.6	86.2	82.1	83.4	234.5	227.6	234.4	48
(*)	(*)	(*)	4.9	4.4	4.5	(*)	(*)	(*)	(*)	(*)	(*)	9.6	9.4	9.7	49
(*)	(*)	(*)	5.5	5.2	5.3	(*)	(*)	(*)	(*)	(*)	(*)	13.3	13.4	13.6	50
(*)	(*)	(*)	7.2	6.6	6.7	(*)	(*)	(*)	6.5	6.5	6.6	17.1	17.3	18.0	51
12.2	11.1	11.8	70.2	64.9	64.9	21.4	21.0	21.0	60.2	57.8	58.8	121.7	118.9	121.3	52
2.0	2.0	2.0	7.2	6.7	6.7	1.6	1.6	1.6	5.4	5.2	5.3	13.3	13.4	13.3	53

## ESTABLISHMENT DATA HISTORICAL HOURS AND EARNINGS

**C-1. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls by industry division, 1961 to date**

Year and month	Average												Hourly earnings excl. overtime
	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	
	Total private <sup>1</sup>			Mining			Construction			Manufacturing			
1961.....	\$82.60	38.6	\$2.14	\$105.92	40.5	\$2.64	\$118.08	35.9	\$3.20	\$92.34	39.8	\$2.32	\$2.25
1962.....	85.91	38.7	2.22	110.70	41.0	2.70	122.47	37.0	3.31	96.56	40.4	2.39	2.31
1963.....	88.46	38.8	2.28	114.40	41.6	2.75	127.19	37.3	3.41	99.23	40.5	2.45	2.37
1964.....	91.33	38.7	2.36	117.74	41.9	2.81	132.06	37.2	3.55	102.97	40.7	2.53	2.43
1965.....	95.45	38.8	2.46	123.52	42.3	2.92	138.38	37.4	3.73	107.53	41.2	2.61	2.50
1966.....	98.82	38.6	2.56	130.24	42.7	3.05	146.26	37.6	3.89	112.19	41.4	2.71	2.59
1967.....	101.84	38.0	2.68	135.89	42.6	3.19	154.95	37.7	4.11	114.49	40.6	2.82	2.71
1968.....	107.73	37.8	2.85	142.71	42.6	3.35	164.49	37.3	4.41	122.51	40.7	3.01	2.88
1969.....	114.61	37.7	3.04	154.80	43.0	3.60	181.54	37.9	4.79	129.51	40.6	3.19	3.05
1970.....	119.83	37.1	3.23	164.40	42.7	3.85	195.45	37.3	5.24	133.33	39.8	3.35	3.23
1971.....	127.31	36.9	3.45	172.14	42.4	4.06	211.67	37.2	5.69	142.44	39.9	3.57	3.45
1972.....	136.90	37.0	3.70	189.14	42.6	4.44	221.19	36.5	6.06	154.71	40.5	3.82	3.66
1973.....	145.39	36.9	3.94	201.40	42.4	4.75	235.89	36.8	6.41	165.46	40.7	4.09	3.91
1974.....	154.76	36.5	4.24	219.14	41.9	5.23	249.25	35.6	6.81	176.80	40.0	4.29	4.25
1975.....	163.53	36.1	4.53	249.31	41.9	5.95	266.08	36.4	7.31	190.79	39.5	4.83	4.67
1976.....	175.45	36.1	4.86	273.90	42.4	6.46	283.73	36.8	7.71	209.32	40.1	5.22	5.02
1977.....	189.00	36.0	5.25	301.20	43.4	6.94	295.65	36.5	8.13	228.90	40.3	5.68	5.44
1978.....	203.70	35.8	5.69	332.88	43.4	7.67	318.69	36.8	8.66	249.27	40.4	5.17	5.91
1979.....	219.91	35.7	6.16	365.07	43.0	8.49	342.99	37.0	9.27	269.34	40.2	6.70	6.43
1980.....	235.10	35.3	6.66	397.06	43.3	9.17	367.78	37.0	9.94	288.62	39.7	7.27	7.02
1981.....	255.20	35.2	7.25	439.19	43.7	10.05	398.52	36.9	10.80	318.00	39.8	7.99	7.72
<b>1981:</b>													
November..	262.20	35.1	7.47	461.32	44.4	10.39	414.78	37.1	11.18	325.54	39.7	8.20	7.94
December..	262.24	35.2	7.45	466.37	44.8	10.41	417.75	37.1	11.26	329.97	39.9	8.27	8.00
<b>1982:</b>													
January...	255.95	33.9	7.55	456.89	42.9	10.65	385.95	33.3	11.59	312.38	37.1	8.42	8.17
February...	262.39	34.8	7.54	463.03	43.6	10.62	406.39	35.9	11.32	326.93	39.2	8.34	8.10
March.....	261.99	34.7	7.55	465.16	43.8	10.62	419.21	37.0	11.33	327.27	39.1	8.37	8.13
April.....	262.27	34.6	7.58	454.76	42.7	10.65	415.44	36.7	11.32	325.85	38.7	8.42	8.19
May.....	265.52	34.8	7.43	454.12	42.6	10.66	425.75	37.5	11.46	329.55	39.0	8.45	8.22
June.....	267.40	35.0	7.44	463.10	42.8	10.82	427.88	37.5	11.41	334.05	39.3	8.50	8.25
July.....	265.98	35.2	7.67	463.68	42.5	10.91	438.14	38.0	11.53	332.60	38.9	8.55	8.31
August....	271.04	35.2	7.70	463.43	42.4	10.93	436.16	37.6	11.60	331.89	39.0	8.51	8.26
September..	270.05	34.8	7.76	462.58	41.9	11.04	430.99	36.9	11.68	334.15	38.9	8.59	8.33
October..P	270.31	34.7	7.79	460.32	42.0	10.96	439.33	37.2	11.81	333.84	39.0	8.56	8.31
November..P	269.88	34.6	7.80	456.09	41.5	10.99	423.18	36.2	11.69	337.90	39.2	8.62	8.36
	Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			
1961.....	-	-	-	\$67.41	38.3	\$1.76	\$77.12	36.9	\$2.09	-	-	-	-
1962.....	-	-	-	69.91	38.2	1.83	80.94	37.3	2.17	-	-	-	-
1963.....	-	-	-	72.01	38.1	1.89	84.38	37.5	2.25	-	-	-	-
1964.....	\$118.78	41.1	\$2.89	74.55	37.9	1.97	85.79	37.3	2.30	\$70.03	36.1	\$1.94	-
1965.....	125.14	41.3	3.03	76.91	37.7	2.04	88.91	37.2	2.39	73.60	35.9	2.05	-
1966.....	128.13	41.2	3.11	79.39	37.1	2.14	92.13	37.3	2.47	77.04	35.5	2.17	-
1967.....	130.82	40.5	3.23	82.35	36.6	2.25	95.72	37.1	2.58	80.38	35.1	2.29	-
1968.....	138.85	40.6	3.42	87.30	36.1	2.41	101.75	37.0	2.75	83.97	34.7	2.42	-
1969.....	147.74	40.7	3.63	91.39	35.7	2.56	108.70	37.1	2.93	90.57	34.7	2.61	-
1970.....	155.93	40.5	3.85	96.02	35.3	2.72	112.67	36.7	3.07	95.65	34.4	2.81	-
1971.....	168.82	40.1	4.21	101.39	35.1	2.88	117.85	35.6	3.22	103.06	33.9	3.04	-
1972.....	187.86	40.4	4.65	106.45	34.9	3.05	122.98	36.6	3.36	110.85	33.9	3.27	-
1973.....	203.31	40.5	5.02	111.76	34.6	3.23	129.20	35.6	3.53	117.29	33.8	3.47	-
1974.....	217.48	40.2	5.41	119.02	34.2	3.48	137.61	36.5	3.77	126.09	33.6	3.75	-
1975.....	233.44	39.7	5.88	125.45	33.9	3.73	148.19	36.5	4.06	134.67	33.5	4.02	-
1976.....	256.71	39.8	6.45	133.79	33.7	3.97	155.43	36.4	4.27	143.52	33.3	4.31	-
1977.....	278.90	39.9	6.99	142.52	33.3	4.28	165.26	36.4	4.54	153.45	33.0	4.65	-
1978.....	302.80	40.0	7.57	153.64	32.9	4.67	178.00	35.4	4.89	163.67	32.8	4.99	-
1979.....	325.58	39.9	8.16	164.96	32.6	5.06	190.77	36.2	5.27	175.27	32.7	5.36	-
1980.....	351.25	39.6	8.87	176.46	32.2	5.48	209.60	36.2	5.79	190.71	32.6	5.85	-
1981.....	382.18	39.4	9.70	190.95	32.2	5.93	229.05	36.3	6.31	208.97	32.6	6.41	-
<b>1981:</b>													
November..	393.96	39.2	10.65	192.68	31.9	6.04	236.02	36.2	6.52	216.78	32.5	6.67	-
December..	395.36	39.3	10.66	194.45	32.3	6.02	234.21	36.2	6.47	217.12	32.6	6.66	-
<b>1982:</b>													
January...	388.85	38.5	10.10	191.89	31.1	6.17	237.47	36.2	6.56	219.32	32.3	6.79	-
February...	397.10	39.2	10.13	194.66	31.6	6.16	239.64	36.2	6.62	220.68	32.5	6.79	-
March.....	392.73	39.0	10.07	194.66	31.6	6.16	239.22	36.3	6.59	220.03	32.5	6.77	-
April.....	393.43	38.8	10.14	195.91	31.7	6.18	240.37	36.2	6.64	221.33	32.5	6.81	-
May.....	394.60	38.8	10.17	157.78	31.9	6.20	245.75	36.3	6.77	222.63	32.5	6.85	-
June.....	399.84	39.2	10.20	199.02	32.1	6.20	242.23	36.1	6.71	224.35	32.8	6.84	-
July.....	403.37	39.2	10.29	202.45	32.6	6.21	245.44	36.2	6.78	227.40	33.1	6.87	-
August....	409.90	39.3	10.43	202.77	32.6	6.22	249.38	36.3	6.87	227.70	33.0	6.90	-
September..	405.85	38.8	10.46	200.95	32.1	6.26	249.09	36.1	6.90	228.57	32.7	6.99	-
October..F	405.19	38.7	10.47	200.97	31.9	6.30	251.95	36.2	6.96	229.83	32.6	7.05	-
November..P	406.07	38.6	10.52	200.66	31.8	6.31	253.06	36.1	7.01	229.78	32.5	7.07	-

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

p = preliminary.

NOTE: Data from April 1981 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustment" in the Explanatory Notes of this publication.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
-	<b>TOTAL PRIVATE</b> .....	\$261.18	\$262.20	\$270.05	\$270.31	\$269.88	\$7.42	\$7.47	\$7.76	\$7.79	\$7.80
-	<b>MINING</b> .....	456.13	461.32	462.56	460.32	456.09	10.25	10.39	11.04	10.95	10.99
10	<b>METAL MINING</b> .....	474.74	486.01	448.57	454.43	-	12.08	12.12	12.53	12.45	-
101	Iron ores .....	470.87	504.32	527.41	498.00	-	12.59	12.80	13.42	13.28	-
102	Copper ores .....	503.89	505.93	480.74	454.98	-	12.26	12.25	13.28	12.89	-
11, 12	<b>COAL MINING</b> .....	520.88	522.06	500.35	503.76	-	12.17	12.43	13.03	12.95	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	522.16	522.49	502.27	505.70	-	12.20	12.47	13.08	13.00	-
13	<b>OIL AND GAS EXTRACTION</b> .....	443.55	449.57	462.16	455.88	-	9.58	9.71	10.60	10.48	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	452.77	461.20	522.70	457.63	-	10.91	11.06	12.27	12.02	-
138	Oil and gas field services .....	440.72	446.00	438.35	438.23	-	9.22	9.35	9.94	9.87	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	370.20	365.51	395.49	394.42	-	8.53	8.52	9.05	9.13	-
142	Crushed and broken stone .....	355.88	355.53	386.30	386.04	-	8.20	8.22	8.72	8.72	-
-	<b>CONSTRUCTION</b> .....	419.62	414.78	430.55	439.33	423.18	11.16	11.18	11.68	11.81	11.69
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	365.38	365.10	385.14	389.12	-	10.12	10.14	10.61	10.69	-
152	Residential building construction .....	334.65	334.55	354.40	352.99	-	9.27	9.33	9.79	9.86	-
153	Operative builders .....	303.81	293.23	313.04	311.08	-	8.51	8.26	8.37	8.34	-
154	Nonresidential building construction .....	405.90	403.33	420.06	428.41	-	11.00	10.96	11.54	11.61	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	439.27	442.13	463.91	470.34	-	10.74	10.89	11.54	11.70	-
161	Highway and street construction .....	408.63	391.38	430.15	435.42	-	10.04	9.76	10.39	10.62	-
162	Heavy construction, except highway .....	452.92	461.86	478.39	485.18	-	11.02	11.32	12.05	12.16	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	434.08	422.80	437.83	447.07	-	11.86	11.81	12.23	12.35	-
171	Plumbing, heating, air conditioning .....	443.87	434.90	457.28	466.49	-	11.90	11.85	12.46	12.55	-
172	Painting, paper hanging, decorating .....	378.77	361.18	379.16	379.27	-	10.73	10.53	10.99	10.93	-
173	Electrical work .....	506.72	488.93	505.63	525.80	-	13.37	13.25	13.74	13.91	-
174	Masonry, stonework, and plastering .....	390.72	385.58	410.39	412.46	-	11.26	11.34	11.93	11.99	-
175	Carpentering and flooring .....	373.47	361.80	382.16	388.58	-	10.58	10.61	11.34	11.37	-
176	Roofing and sheet metal work .....	354.65	359.84	362.54	365.56	-	10.37	10.43	10.79	11.11	-
-	<b>MANUFACTURING</b> .....	323.95	325.54	334.15	333.84	337.90	8.16	8.20	8.59	8.56	8.62
24, 25, 32-39	<b>DURABLE GOODS</b> .....	350.07	351.68	357.24	357.90	362.22	8.73	8.77	9.16	9.13	9.17
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	286.60	288.56	304.19	301.86	305.74	7.33	7.38	7.84	7.80	7.88
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	271.22	269.93	258.76	293.37	292.97	7.10	7.16	7.70	7.62	7.59
241	Logging camps and logging contractors .....	367.61	365.19	418.31	419.09	-	9.45	9.56	10.59	10.53	-
242	Sawmills and planing mills .....	278.31	272.25	304.19	296.05	-	7.21	7.26	7.84	7.75	-
2421	Sawmills and planing mills, general .....	291.83	285.74	320.93	312.15	-	7.58	7.64	8.25	8.15	-
2426	Hardwood dimension and flooring .....	200.46	200.20	206.66	207.13	-	5.14	5.20	5.34	5.38	-
243	Millwork, plywood, and structural members .....	260.63	261.80	291.75	283.44	-	6.95	7.00	7.50	7.42	-
2431	Millwork .....	271.74	276.14	296.40	292.92	-	7.17	7.21	7.60	7.53	-
2434	Wood kitchen cabinets .....	230.11	236.43	253.34	253.80	-	6.27	6.39	6.72	6.75	-
2435	Hardwood veneer and plywood .....	218.50	215.95	225.41	224.91	-	5.49	5.58	5.87	5.95	-
2436	Softwood veneer and plywood .....	303.36	298.78	370.00	338.63	-	8.45	8.44	9.25	9.03	-
244	Wood containers .....	208.67	210.86	215.83	211.80	-	5.42	5.52	5.65	5.53	-
245	Wood buildings and mobile homes .....	230.40	229.91	248.05	249.29	-	6.49	6.55	6.65	6.63	-
2451	Mobile homes .....	226.40	225.98	245.43	246.84	-	6.45	6.42	6.58	6.60	-
249	Miscellaneous wood products .....	238.79	241.35	247.40	248.29	-	6.03	6.11	6.36	6.35	-
25	<b>FURNITURE AND FIXTURES</b> .....	233.92	230.51	241.66	244.98	246.77	6.06	6.05	6.41	6.43	6.46
251	Household furniture .....	213.56	210.00	219.48	222.43	-	5.62	5.60	5.90	5.90	-
2511	Wood household furniture .....	200.85	199.43	157.64	203.79	-	5.19	5.18	5.40	5.42	-
2512	Upholstered household furniture .....	223.43	216.48	230.84	234.10	-	5.99	5.98	6.29	6.31	-
2514	Metal household furniture .....	231.21	229.88	252.00	246.76	-	5.99	5.94	6.30	6.20	-
2515	Mattresses and bedsprings .....	219.75	215.14	253.44	244.94	-	6.19	6.20	6.60	6.62	-
252	Office furniture .....	262.35	263.16	256.93	257.93	-	6.51	6.53	7.02	6.99	-
253	Public building and related furniture .....	271.26	271.95	283.18	288.25	-	6.85	6.85	6.84	7.31	-
254	Partitions and fixtures .....	279.69	276.10	310.08	309.68	-	7.19	7.19	7.85	7.84	-
259	Miscellaneous furniture and fixtures .....	274.51	273.53	277.14	283.29	-	6.88	6.96	7.07	7.10	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
-	<b>TOTAL PRIVATE</b> .....	35.2	35.1	34.8	34.7	34.6	-	-	-	-	-
-	<b>MINING</b> .....	44.5	44.4	41.9	42.0	41.5	-	-	-	-	-
10	<b>METAL MINING</b> .....	39.3	40.1	35.8	36.5	-	-	-	-	-	-
101	Iron ores .....	37.4	35.4	39.3	37.5	-	-	-	-	-	-
102	Copper ores .....	41.1	41.3	36.2	38.4	-	-	-	-	-	-
11, 12	<b>COAL MINING</b> .....	42.8	42.0	38.4	38.9	-	-	-	-	-	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	42.8	41.9	38.4	38.9	-	-	-	-	-	-
13	<b>OIL AND GAS EXTRACTION</b> .....	46.3	46.3	43.6	43.5	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	41.5	41.7	42.6	41.4	-	-	-	-	-	-
138	Oil and gas field services .....	47.8	47.7	44.1	44.4	-	-	-	-	-	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	43.4	42.9	43.7	43.2	-	-	-	-	-	-
142	Crushed and broken stone .....	43.4	43.3	44.3	44.5	-	-	-	-	-	-
-	<b>CONSTRUCTION</b> .....	37.6	37.1	36.9	37.2	36.2	-	-	-	-	-
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	36.5	36.4	36.3	36.4	-	-	-	-	-	-
152	Residential building construction .....	36.1	35.9	36.2	35.8	-	-	-	-	-	-
153	Operative builders .....	35.7	35.5	37.4	37.3	-	-	-	-	-	-
154	Nonresidential building construction .....	36.9	36.8	36.4	36.9	-	-	-	-	-	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	40.9	40.6	40.2	40.2	-	-	-	-	-	-
161	Highway and street construction .....	40.7	40.1	41.4	41.0	-	-	-	-	-	-
162	Heavy construction, except highway .....	41.1	40.8	39.7	39.9	-	-	-	-	-	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	36.6	35.8	35.8	36.2	-	-	-	-	-	-
171	Plumbing, heating, air conditioning .....	37.3	36.7	36.7	37.3	-	-	-	-	-	-
172	Painting, paper hanging, decorating .....	35.3	34.3	34.5	34.7	-	-	-	-	-	-
173	Electrical work .....	37.9	36.9	36.8	37.8	-	-	-	-	-	-
174	Masonry, stonework, and plastering .....	34.7	34.0	34.4	34.4	-	-	-	-	-	-
175	Carpentering and flooring .....	35.3	34.1	33.7	34.0	-	-	-	-	-	-
176	Roofing and sheet metal work .....	34.2	34.5	33.6	33.3	-	-	-	-	-	-
-	<b>MANUFACTURING</b> .....	39.7	39.7	38.9	39.0	39.2	2.8	2.6	2.5	2.3	2.4
24, 25, 32-39	<b>DURABLE GOODS</b> .....	40.1	40.1	39.0	39.2	39.5	2.7	2.5	2.2	2.1	2.2
20-23, 28-31	<b>NONDURABLE GOODS</b> .....	39.1	39.1	38.8	38.7	38.8	2.9	2.8	2.9	2.7	2.7
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	38.2	37.7	38.8	38.5	38.6	2.4	2.2	2.6	2.4	-
241	Logging camps and logging contractors .....	38.9	36.2	39.5	35.8	-	3.9	3.7	3.4	3.1	-
242	Sawmills and planing mills .....	38.6	37.5	38.8	38.2	-	2.7	2.5	3.2	3.0	-
2421	Sawmills and planing mills, general .....	38.5	37.4	38.9	38.3	-	2.9	2.7	3.4	3.2	-
2426	Hardwood dimension and flooring .....	39.0	38.5	38.7	38.5	-	2.2	2.1	2.2	2.1	-
243	Millwork, plywood, and structural members .....	37.5	37.4	38.9	38.2	-	1.6	1.5	2.2	2.0	-
2431	Millwork .....	37.9	38.3	39.0	38.9	-	1.2	1.1	1.5	1.6	-
2434	Wood kitchen cabinets .....	36.7	37.0	37.7	37.6	-	1.1	1.3	1.4	1.2	-
2435	Hardwood veneer and plywood .....	35.8	36.7	38.4	37.8	-	2.6	2.2	2.2	2.2	-
2436	Softwood veneer and plywood .....	35.9	35.4	40.0	37.5	-	2.0	1.9	3.8	2.9	-
244	Wood containers .....	38.5	38.2	38.2	38.3	-	2.2	2.2	2.1	1.9	-
245	Wood buildings and mobile homes .....	35.5	35.1	37.3	37.6	-	1.0	.8	1.5	1.6	-
2451	Mobile homes .....	35.1	35.2	37.3	37.4	-	.8	.7	1.6	1.6	-
249	Miscellaneous wood products .....	39.6	39.5	38.9	39.1	-	2.5	2.4	2.0	2.1	-
25	<b>FURNITURE AND FIXTURES</b> .....	38.6	38.1	37.7	38.1	38.2	2.0	1.5	1.7	1.7	-
251	Household furniture .....	38.0	37.5	37.2	37.7	-	1.6	1.3	1.4	1.4	-
2511	Wood household furniture .....	38.7	38.5	36.6	37.6	-	2.0	1.6	1.5	1.5	-
2512	Upholstered household furniture .....	37.3	36.2	36.7	37.1	-	1.2	.9	.8	1.0	-
2514	Metal household furniture .....	38.6	38.7	40.0	39.8	-	1.8	1.7	2.3	1.9	-
2515	Mattresses and bedspings .....	35.5	34.7	38.4	37.0	-	1.3	1.0	1.7	1.3	-
252	Office furniture .....	40.3	40.3	36.6	36.9	-	2.9	2.5	1.6	1.6	-
253	Public building and related furniture .....	39.6	39.7	41.4	40.8	-	2.4	1.7	3.1	3.3	-
254	Partitions and fixtures .....	38.9	38.4	39.5	39.5	-	2.7	1.9	2.8	2.5	-
259	Miscellaneous furniture and fixtures .....	39.9	39.3	39.2	39.9	-	1.7	1.1	1.8	1.8	-

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				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	\$344.25	\$345.87	\$365.72	\$365.81	\$364.99	\$8.50	\$8.54	\$9.03	\$9.01	\$8.99
321	Flat glass	463.68	467.60	516.43	474.71	-	11.04	11.16	12.18	11.55	-
322	Glass and glassware, pressed or blown	365.65	367.11	383.20	386.07	-	8.94	9.02	9.58	9.58	-
3221	Glass containers	388.22	384.34	399.00	404.78	-	9.40	9.42	10.00	9.97	-
3229	Pressed and blown glass, nec	335.72	343.55	358.90	356.21	-	8.31	8.49	8.95	8.95	-
323	Products of purchased glass	310.13	302.54	334.49	335.75	-	7.62	7.64	8.30	8.11	-
324	Cement, hydraulic	506.62	528.28	529.17	514.11	-	12.12	12.43	12.69	12.57	-
325	Structural clay products	279.39	277.20	284.40	284.62	-	6.95	6.93	7.11	7.08	-
326	Pottery and related products	264.52	270.28	284.23	284.59	-	6.80	6.86	7.46	7.45	-
327	Concrete, gypsum, and plaster products	345.20	341.09	368.68	372.56	-	8.44	8.36	8.82	8.88	-
3271	Concrete block and brick	326.69	314.16	337.19	348.92	-	7.51	7.48	7.86	7.93	-
3272	Concrete products, nec	313.50	310.50	331.01	324.53	-	7.50	7.50	7.90	7.82	-
3273	Ready-mixed concrete	372.24	366.56	398.52	408.78	-	9.40	9.21	9.72	9.95	-
329	Misc. nonmetallic mineral products	335.60	340.57	351.95	353.63	-	8.39	8.43	8.91	8.93	-
3291	Abrasive products	325.60	328.64	316.32	331.13	-	8.14	8.18	8.69	8.76	-
3292	Asbestos products	342.26	330.33	353.23	344.65	-	8.43	8.47	8.92	8.86	-
33	<b>PRIMARY METAL INDUSTRIES</b>	435.51	440.67	438.52	432.05	443.91	10.97	11.10	11.54	11.43	11.53
331	Blast furnace and basic steel products	499.48	510.90	510.64	494.31	-	12.84	13.10	13.69	13.58	-
3312	Blast furnaces and steel mills	516.85	526.30	533.50	513.72	-	13.39	13.67	14.38	14.27	-
3317	Steel pipe and tubes	418.82	430.55	393.35	408.58	-	10.24	10.46	10.66	10.64	-
332	Iron and steel foundries	354.49	356.71	353.69	349.75	-	9.16	9.17	9.69	9.53	-
3321	Gray iron foundries	357.50	362.39	363.95	355.57	-	9.31	9.34	9.89	9.61	-
3322	Malleable iron foundries	364.93	370.02	353.63	370.13	-	9.81	9.92	10.34	10.31	-
3325	Steel foundries, nec	347.11	343.09	334.80	333.70	-	8.81	8.73	9.30	9.40	-
333	Primary nonferrous metals	511.28	517.92	543.78	536.22	-	12.44	12.48	13.46	13.24	-
3334	Primary aluminum	544.07	537.95	560.95	573.27	-	13.11	13.25	14.38	14.12	-
335	Nonferrous rolling and drawing	406.13	408.46	414.96	416.00	-	9.81	9.89	10.40	10.40	-
3351	Copper rolling and drawing	351.88	348.02	350.61	342.11	-	8.52	8.53	8.99	8.84	-
3353	Aluminum sheet, plate, and foil	527.07	538.48	559.55	554.29	-	12.67	12.70	14.13	13.72	-
3357	Nonferrous wire drawing and insulating	376.41	378.11	360.33	379.69	-	9.07	9.15	9.58	9.54	-
336	Nonferrous foundries	326.42	328.03	328.04	331.27	-	8.12	8.16	8.61	8.56	-
3361	Aluminum foundries	335.30	336.91	337.69	335.34	-	8.32	8.36	8.84	8.71	-
34	<b>FABRICATED METAL PRODUCTS</b>	337.28	337.64	346.21	346.04	350.56	8.39	8.42	8.90	8.85	8.92
341	Metal cans and shipping containers	478.66	487.45	514.03	457.62	-	11.08	11.18	12.01	11.82	-
3411	Metal cans	499.10	509.08	535.68	521.42	-	11.50	11.57	12.40	12.24	-
342	Cutlery, hand tools, and hardware	313.63	312.64	318.27	323.31	-	7.94	7.94	8.31	8.29	-
3423, 5	Hand and edge tools, and hand saws and blades	296.29	299.81	298.62	311.20	-	7.52	7.59	7.90	8.00	-
3429	Hardware, nec	327.81	323.40	332.54	333.45	-	8.32	8.25	8.66	8.55	-
343	Plumbing and heating, except electric	295.11	291.39	306.82	316.76	-	7.49	7.51	7.99	8.06	-
3432	Plumbing fittings and brass goods	280.53	274.18	286.48	294.91	-	7.12	7.14	7.66	7.70	-
3433	Heating equipment, except electric	293.53	292.04	314.73	324.77	-	7.45	7.45	8.07	8.15	-
344	Fabricated structural metal products	333.73	335.76	342.13	343.57	-	8.22	8.27	8.75	8.72	-
3441	Fabricated structural metal	359.87	353.87	364.40	368.34	-	8.63	8.61	9.11	9.14	-
3442	Metal doors, sash, and trim	257.01	259.90	259.57	265.49	-	6.59	6.63	6.69	6.79	-
3443	Fabricated plate work (boiler shops)	370.72	378.07	384.07	382.01	-	9.02	9.11	9.95	9.77	-
3444	Sheet metal work	330.37	331.14	344.96	343.54	-	8.28	8.32	8.96	8.90	-
3446	Architectural metal work	313.80	327.47	353.42	355.83	-	7.71	7.76	8.62	8.70	-
345	Screw machine products, bolts, etc.	318.39	318.39	314.06	313.73	-	7.94	7.94	8.20	8.17	-
3451	Screw machine products	293.27	295.14	291.08	291.85	-	7.35	7.36	7.62	7.62	-
3452	Bolts, nuts, rivets, and washers	341.74	341.30	335.62	335.82	-	8.48	8.49	8.74	8.70	-
346	Metal forgings and stampings	380.33	378.02	365.54	381.97	-	9.58	9.57	10.04	9.87	-
3462	Iron and steel forgings	402.51	415.90	410.28	419.33	-	10.19	10.32	10.97	10.92	-
3465	Automotive stampings	459.20	444.48	453.55	443.48	-	11.48	11.31	11.75	11.43	-
3469	Metal stampings, nec	294.62	297.44	306.87	308.05	-	7.44	7.53	7.95	7.96	-
347	Metal services, nec	263.21	262.64	273.66	276.76	-	6.63	6.70	7.04	7.17	-
3471	Plating and polishing	263.61	261.19	268.11	272.52	-	6.64	6.68	6.91	7.06	-
3479	Metal coating and allied services	262.68	265.56	287.04	288.32	-	6.60	6.74	7.36	7.45	-
348	Ordnance and accessories, nec	343.20	345.20	361.65	367.08	-	8.58	8.63	9.18	9.20	-
3483	Ammunition, exc. for small arms, nec	305.37	311.65	337.39	342.59	-	7.81	7.87	8.52	8.48	-
349	Misc. fabricated metal products	316.01	316.79	318.82	321.64	-	7.94	8.02	8.39	8.42	-
3494	Valves and pipe fittings	338.89	340.15	336.28	336.14	-	8.43	8.50	8.92	8.94	-
3496	Misc. fabricated wire products	267.44	265.10	280.14	284.06	-	6.84	6.90	7.22	7.34	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	367.93	372.28	367.54	366.52	369.18	9.04	9.08	9.40	9.35	9.37
351	Engines and turbines	445.04	443.77	452.40	448.52	-	11.21	11.15	11.60	11.53	-
3511	Turbines and turbine generator sets	420.21	428.70	443.05	450.24	-	10.35	10.33	11.16	11.20	-
3519	Internal combustion engines, nec	453.92	445.26	457.02	446.91	-	11.55	11.49	11.84	11.73	-
352	Farm and garden machinery	394.22	391.45	413.29	405.72	-	9.93	9.91	10.57	10.35	-
3523	Farm machinery and equipment	411.77	409.22	431.40	425.49	-	10.32	10.36	11.09	10.91	-
353	Construction and related machinery	408.29	415.45	359.47	355.51	-	9.91	9.94	10.43	10.22	-

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				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982 <sup>F</sup>	Nov. 1982 <sup>F</sup>	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982 <sup>F</sup>	Nov. 1982 <sup>F</sup>
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	40.5	40.5	40.5	40.6	40.6	3.9	3.6	3.8	3.6	-
321	Flat glass	42.0	41.9	42.4	41.1	-	3.4	3.0	4.4	3.1	-
322	Glass and glassware, pressed or blown	40.9	40.7	40.0	40.3	-	4.3	4.2	4.6	3.7	-
3221	Glass containers	41.5	40.8	39.5	40.6	-	5.1	5.0	5.3	4.5	-
3229	Pressed and blown glass, nec	40.4	40.5	40.1	35.8	-	3.3	3.2	3.5	2.4	-
323	Products of purchased glass	40.7	39.6	40.3	41.4	-	3.1	2.4	3.3	3.2	-
324	Cement, hydraulic	41.8	42.5	41.7	40.9	-	3.1	2.8	2.4	2.3	-
325	Structural clay products	40.2	40.0	40.0	40.2	-	3.0	2.9	2.5	2.7	-
326	Pottery and related products	38.9	39.4	38.1	36.2	-	2.2	2.1	1.6	1.9	-
327	Concrete, gypsum, and plaster products	40.9	40.8	41.8	42.0	-	4.8	4.6	5.1	5.3	-
3271	Concrete block and brick	43.5	42.0	42.9	44.0	-	4.7	4.5	5.0	5.3	-
3272	Concrete products, nec	41.8	41.4	41.9	41.5	-	4.7	4.5	4.7	4.2	-
3273	Ready-mixed concrete	39.6	39.8	41.0	41.5	-	4.9	4.7	5.3	5.7	-
329	Misc. nonmetallic mineral products	40.0	40.4	39.5	39.6	-	3.0	3.0	2.7	2.3	-
3291	Abrasive products	40.0	40.2	36.4	37.8	-	2.6	2.4	1.3	1.6	-
3292	Asbestos products	40.6	39.0	39.6	38.9	-	2.6	2.2	2.3	2.0	-
33	<b>PRIMARY METAL INDUSTRIES</b>	39.7	39.7	38.0	37.8	38.5	2.6	2.4	2.1	1.8	-
331	Blast furnace and basic steel products	38.9	39.0	37.3	36.4	-	2.2	1.9	1.5	1.3	-
3312	Blast furnaces and steel mills	38.6	38.5	37.1	36.0	-	2.1	1.8	1.4	1.3	-
3317	Steel pipe and tubes	40.9	41.2	36.9	38.4	-	2.8	2.6	2.0	1.9	-
332	Iron and steel foundries	38.7	38.9	36.5	36.7	-	2.4	2.3	1.6	1.2	-
3321	Gray iron foundries	38.4	38.8	36.8	37.0	-	2.4	2.4	1.8	1.7	-
3322	Malleable iron foundries	37.2	37.3	34.2	35.5	-	2.0	1.8	1.1	1.2	-
3325	Steel foundries, nec	39.4	39.3	36.0	35.5	-	2.7	2.3	1.0	1.0	-
333	Primary nonferrous metals	41.1	41.5	40.4	40.5	-	3.1	3.0	3.2	2.5	-
3334	Primary aluminum	41.5	40.6	40.4	40.6	-	3.3	3.1	3.9	2.8	-
335	Nonferrous rolling and drawing	41.4	41.3	39.9	40.0	-	3.8	3.5	3.5	2.8	-
3351	Copper rolling and drawing	41.3	40.8	39.0	38.7	-	4.1	3.4	2.5	1.8	-
3353	Aluminum sheet, plate and foil	41.6	42.4	39.6	40.4	-	4.2	4.0	6.6	4.4	-
3357	Nonferrous wire drawing and insulating	41.5	41.4	39.7	25.8	-	4.1	3.8	2.6	2.3	-
336	Nonferrous foundries	40.2	40.2	38.1	38.7	-	2.5	2.3	1.8	1.9	-
3361	Aluminum foundries	40.3	40.3	38.2	38.5	-	2.6	2.5	1.8	1.8	-
34	<b>FABRICATED METAL PRODUCTS</b>	40.2	40.1	38.9	39.1	39.3	2.7	2.4	2.0	1.9	-
341	Metal cans and shipping containers	43.2	43.6	42.8	42.1	-	4.1	4.1	4.4	3.9	-
3411	Metal cans	43.4	44.0	43.2	42.6	-	4.1	4.1	4.5	3.1	-
342	Cutlery, hand tools, and hardware	39.5	39.4	38.3	39.0	-	2.1	1.7	1.4	1.4	-
3423, 5	Hand and edge tools, and hand saws and blades	39.4	39.5	37.8	38.9	-	1.9	1.8	1.3	1.4	-
3429	Hardware, nec	39.4	39.2	38.4	39.0	-	2.1	1.5	1.4	1.3	-
343	Plumbing and heating, except electric	39.4	38.8	38.4	39.3	-	1.7	1.4	1.4	1.4	-
3432	Plumbing fittings and brass goods	39.4	38.4	37.4	38.3	-	1.4	1.0	1.2	.9	-
3433	Heating equipment, except electric	39.4	39.2	39.0	35.8	-	1.8	1.7	1.6	1.9	-
344	Fabricated structural metal products	40.6	40.6	39.1	39.4	-	2.9	2.7	2.2	2.2	-
3441	Fabricated structural metal	41.7	41.1	40.0	40.3	-	3.2	2.9	2.7	2.8	-
3442	Metal doors, sash, and trim	39.0	39.2	38.8	39.1	-	2.2	2.2	2.1	2.0	-
3443	Fabricated plate work (boiler shops)	41.1	41.5	38.6	39.1	-	3.3	3.3	1.9	2.2	-
3444	Sheet metal work	39.9	39.8	38.5	38.6	-	2.7	2.4	2.1	1.9	-
3446	Architectural metal work	40.7	42.2	41.0	40.9	-	2.1	2.4	2.2	2.3	-
345	Screw machine products, bolts, etc.	40.1	40.1	38.3	38.4	-	2.8	2.4	1.4	1.4	-
3451	Screw machine products	39.9	40.1	38.2	38.3	-	2.8	2.5	1.3	1.5	-
3452	Bolts, nuts, rivets, and washers	40.3	40.2	38.4	38.3	-	2.8	2.3	1.5	1.3	-
346	Metal forgings and stampings	39.7	39.5	38.4	38.7	-	2.6	2.2	1.8	1.6	-
3462	Iron and steel forgings	39.5	40.3	37.4	38.4	-	2.5	2.7	1.6	1.4	-
3465	Automotive stampings	40.0	39.3	38.6	38.8	-	3.0	1.9	1.9	1.4	-
3469	Metal stampings, nec	39.6	39.5	38.6	38.7	-	2.3	2.2	1.8	1.7	-
347	Metal services, nec	39.7	39.2	38.9	38.6	-	2.6	2.4	2.4	2.3	-
3471	Plating and polishing	39.7	39.1	38.8	38.6	-	2.9	2.5	2.2	2.2	-
3479	Metal coating and allied services	39.8	39.4	39.0	38.7	-	2.0	2.0	2.8	2.4	-
348	Ordnance and accessories, nec	40.0	40.0	39.4	39.9	-	2.7	2.6	2.1	2.1	-
3483	Ammunition, exc. for small arms, nec	39.1	39.6	39.6	40.4	-	2.5	2.3	1.9	1.7	-
349	Misc. fabricated metal products	39.8	39.5	38.0	38.2	-	2.7	2.4	1.6	1.4	-
3494	Valves and pipe fittings	40.2	40.1	37.7	37.6	-	3.0	2.7	1.3	1.1	-
3496	Misc. fabricated wire products	39.1	39.0	38.8	38.7	-	2.2	1.9	1.5	1.6	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	40.7	41.0	39.1	39.2	39.4	3.1	3.0	1.9	1.9	-
351	Engines and turbines	39.7	39.8	39.0	38.9	-	2.5	2.0	1.4	1.6	-
3511	Turbines and turbine generator sets	40.6	41.5	39.7	40.2	-	3.8	3.7	3.0	3.3	-
3519	Internal combustion engines, nec	39.3	39.1	38.6	38.1	-	2.0	1.4	.6	.6	-
352	Farm and garden machinery	39.7	39.5	39.1	39.2	-	2.7	1.9	2.3	2.5	-
3523	Farm machinery and equipment	39.9	39.5	38.9	39.0	-	3.0	2.1	2.5	2.8	-
353	Construction and related machinery	41.2	41.8	38.3	38.7	-	3.4	3.5	1.5	1.4	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1961	Nov. 1961	Sept. 1962	Oct. 1962 <sup>F</sup>	Nov. 1962 <sup>P</sup>	Oct. 1961	Nov. 1961	Sept. 1962	Oct. 1962 <sup>F</sup>	Nov. 1962 <sup>P</sup>
		<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>									
3531	Construction machinery	\$440.75	\$445.28	\$437.75	\$409.42	-	\$11.13	\$11.16	\$11.55	\$10.85	-
3532	Mining machinery	387.00	396.79	402.52	358.66	-	10.00	10.02	10.52	10.36	-
3533	Oil field machinery	427.50	438.26	404.29	416.57	-	9.50	9.59	10.34	10.53	-
3535	Conveyers and conveying equipment	335.87	337.05	335.16	337.54	-	8.59	8.49	8.82	8.79	-
3537	Industrial trucks and tractors	330.80	333.45	335.59	345.27	-	8.57	8.55	9.07	9.11	-
354	Metalworking machinery	374.42	375.55	372.45	371.11	-	9.11	9.19	9.55	9.54	-
3541	Machine tools, metal cutting types	385.22	394.25	369.31	361.35	-	9.35	9.50	9.77	9.90	-
3542	Machine tools, metal forming types	371.33	383.57	367.89	363.23	-	9.67	9.76	9.97	9.93	-
3544	Special dies, tools, jigs, and fixtures	401.52	406.55	404.80	402.00	-	9.56	9.63	10.12	10.05	-
3545	Machine tool accessories	338.52	339.65	327.12	331.47	-	8.40	8.47	8.77	8.70	-
3546	Power driven hand tools	291.91	298.05	295.81	289.92	-	7.39	7.47	7.47	7.55	-
355	Special industry machinery	341.01	348.05	353.46	363.09	-	8.42	8.49	9.04	9.10	-
3551	Food products machinery	344.66	355.77	373.32	383.26	-	8.77	8.85	9.38	9.44	-
3552	Textile machinery	271.04	276.98	269.51	273.89	-	6.81	6.89	7.13	7.17	-
3555	Printing trades machinery	359.92	368.03	366.83	386.38	-	8.59	8.68	9.43	9.47	-
356	General industrial machinery	362.30	368.63	356.90	360.68	-	8.99	9.04	9.27	9.32	-
3561	Pumps and pumping equipment	366.51	373.06	363.28	365.53	-	9.14	9.28	9.56	9.67	-
3562	Ball and roller bearings	366.03	365.09	356.31	356.89	-	8.82	8.83	8.93	8.90	-
3563	Air and gas compressors	404.46	399.07	354.49	406.50	-	9.63	9.57	10.30	10.38	-
3564	Blowers and fans	333.23	336.15	343.96	340.17	-	8.31	8.30	8.73	8.70	-
3566	Speed changers, drives, and gears	391.15	395.20	339.65	355.88	-	9.73	9.71	9.76	9.75	-
3568	Power transmission equipment, nec	333.68	348.02	336.45	345.33	-	8.41	8.53	9.02	9.16	-
357	Office and computing machines	316.71	321.66	331.69	330.89	-	7.65	7.70	8.09	8.15	-
3573	Electronic computing equipment	319.01	324.10	330.01	329.66	-	7.65	7.68	8.01	8.08	-
358	Refrigeration and service machinery	334.51	337.40	336.78	337.04	-	8.28	8.29	8.68	8.52	-
3585	Refrigeration and heating equipment	330.22	334.67	348.81	347.10	-	8.36	8.43	8.99	8.90	-
359	Misc. machinery, except electrical	349.80	353.10	350.87	350.35	-	8.68	8.74	9.09	9.10	-
3592	Carburetors, pistons, rings, valves	403.52	417.20	391.58	396.90	-	10.19	10.43	10.47	10.50	-
3599	Machinery, except electrical, nec	341.38	343.00	344.16	343.15	-	8.45	8.49	8.87	8.89	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	311.22	311.63	322.43	326.09	\$331.41	7.80	7.83	8.31	8.34	\$8.39
361	Electric distributing equipment	306.48	306.13	321.98	316.16	-	7.72	7.75	8.32	8.32	-
3612	Transformers	303.06	299.02	327.02	318.40	-	7.52	7.57	8.30	8.27	-
3613	Switchgear and switchboard apparatus	310.08	312.05	317.75	314.34	-	7.89	7.90	8.34	8.35	-
362	Electrical industrial apparatus	321.20	323.61	313.22	323.25	-	7.99	8.07	8.42	8.44	-
3621	Motors and generators	315.97	320.39	315.55	328.50	-	7.86	7.95	8.37	8.38	-
3622	Industrial controls	319.20	322.79	308.63	310.88	-	8.02	8.09	8.23	8.29	-
363	Household appliances	296.44	271.08	312.66	312.58	-	7.66	7.53	8.10	8.14	-
3632	Household refrigerators and freezers	343.80	297.37	377.60	347.76	-	9.00	8.93	9.44	9.45	-
3633	Household laundry equipment	346.14	312.56	372.24	377.80	-	9.28	9.22	9.77	9.89	-
3634	Electric housewares and fans	236.34	235.22	247.81	256.75	-	6.06	6.19	6.42	6.50	-
364	Electric lighting and wiring equipment	287.23	290.21	303.40	306.54	-	7.29	7.31	7.86	7.84	-
3641	Electric lamps	336.60	338.25	355.27	372.50	-	8.25	8.25	9.04	9.13	-
3643	Current-carrying wiring devices	272.65	276.61	274.05	279.90	-	5.92	6.95	7.25	7.27	-
3644	Noncurrent-carrying wiring devices	294.32	296.65	257.11	308.32	-	7.47	7.51	8.03	8.05	-
3645	Residential lighting fixtures	218.31	216.55	231.64	233.01	-	5.70	5.79	5.97	5.99	-
365	Radio and TV receiving equipment	288.95	293.78	292.23	294.51	-	7.26	7.40	7.67	7.61	-
3651	Radio and TV receiving sets	296.60	302.54	287.15	301.64	-	7.49	7.64	7.74	7.84	-
366	Communication equipment	369.46	370.68	396.40	397.39	-	9.10	9.13	9.91	9.91	-
3661	Telephone and telegraph apparatus	395.91	393.01	410.41	406.61	-	9.68	9.68	10.39	10.32	-
3662	Radio and TV communication equipment	353.50	357.28	386.33	351.88	-	8.75	8.80	9.66	9.70	-
367	Electronic components and accessories	267.58	271.48	283.19	290.03	-	6.74	6.77	7.28	7.38	-
3671-3	Electronic tubes	337.39	344.21	371.97	372.53	-	8.52	8.52	9.23	9.29	-
3674	Semiconductors and related devices	309.91	311.08	322.62	327.71	-	7.69	7.70	8.23	8.35	-
3679	Electronic components, nec	250.97	256.14	264.32	275.20	-	6.29	6.34	6.76	6.88	-
369	Misc. electrical equipment and supplies	355.72	355.59	335.48	337.19	-	8.74	8.78	8.58	8.58	-
3691	Storage batteries	377.16	370.39	370.95	380.16	-	8.98	8.99	9.58	9.63	-
3694	Engine electrical equipment	382.97	380.83	329.75	331.57	-	9.72	9.74	8.57	8.59	-
37	<b>TRANSPORTATION EQUIPMENT</b>	440.34	438.19	443.58	456.12	464.22	10.74	10.74	11.24	11.29	11.35
371	Motor vehicles and equipment	464.94	454.18	452.40	464.40	-	11.34	11.27	11.69	11.61	-
3711	Motor vehicles and car bodies	532.51	515.57	484.15	520.10	-	12.77	12.73	12.98	12.97	-
3713	Truck and bus bodies	370.47	370.46	381.23	335.89	-	9.17	9.08	9.39	8.76	-
3714	Motor vehicle parts and accessories	428.74	423.96	441.86	438.98	-	10.56	10.52	11.13	10.92	-
3715	Truck trailers	298.29	302.24	307.64	312.53	-	7.59	7.73	7.97	8.16	-
372	Aircraft and parts	436.70	450.19	463.58	479.91	-	10.70	10.77	11.40	11.62	-
3721	Aircraft	458.97	469.83	488.40	508.82	-	11.14	11.24	12.00	12.35	-
3724	Aircraft engines and engine parts	431.32	437.38	454.26	466.26	-	10.81	10.72	11.30	11.40	-
3728	Aircraft equipment, nec	408.24	423.29	430.97	442.89	-	9.72	9.89	10.41	10.51	-
373	Ship and boat building and repairing	387.20	387.66	394.62	402.40	-	9.33	9.46	9.94	10.02	-
3731	Shipbuilding and repairing	409.78	407.06	418.08	-	-	9.78	9.88	10.40	-	-
3732	Boat building and repairing	304.36	315.15	292.53	303.38	-	7.59	7.82	7.78	7.88	-
374	Railroad equipment	438.20	435.37	435.66	438.48	-	11.15	11.05	11.47	11.60	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982F	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982F	Nov. 1982P
	<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>										
3531	Construction machinery	39.6	39.9	37.9	37.7	-	1.8	1.8	1.0	1.2	-
3532	Mining machinery	38.7	39.6	38.3	38.5	-	2.0	2.1	.9	.8	-
3533	Oil field machinery	45.0	45.7	39.1	39.6	-	6.1	6.2	1.8	1.8	-
3535	Conveyers and conveying equipment	39.1	39.7	38.0	38.4	-	2.6	3.0	1.8	1.4	-
3537	Industrial trucks and tractors	38.6	39.0	37.0	37.9	-	2.1	2.3	1.6	1.2	-
354	Metalworking machinery	41.1	41.3	39.0	38.9	-	3.9	3.8	2.2	2.2	-
3541	Machine tools, metal cutting types	41.2	41.5	37.8	36.5	-	4.1	4.0	1.3	1.2	-
3542	Machine tools, metal forming types	38.4	39.3	36.9	36.4	-	2.6	3.1	1.0	.9	-
3544	Special dies, tools, jigs, and fixtures	42.0	42.2	40.0	40.0	-	4.7	4.6	3.2	3.1	-
3545	Machine tool accessories	40.3	40.1	37.3	38.1	-	3.2	3.0	1.0	1.2	-
3546	Power driven hand tools	39.5	39.9	39.6	38.4	-	2.2	2.1	2.4	2.3	-
355	Special industry machinery	40.5	41.0	39.1	39.9	-	2.7	2.7	2.1	2.1	-
3551	Food products machinery	39.3	40.2	39.8	40.6	-	2.1	2.2	2.0	2.3	-
3552	Textile machinery	39.8	40.2	37.8	38.2	-	1.7	2.0	1.3	1.5	-
3555	Printing trades machinery	41.9	42.4	38.9	40.6	-	3.4	3.5	2.4	2.5	-
356	General industrial machinery	40.3	40.8	38.5	38.7	-	2.8	2.8	1.7	1.5	-
3561	Pumps and pumping equipment	40.1	40.2	38.0	37.8	-	2.8	2.8	1.4	1.1	-
3562	Ball and roller bearings	41.5	41.8	39.9	40.1	-	3.2	3.1	2.0	1.9	-
3563	Air and gas compressors	42.0	41.7	38.3	39.2	-	3.8	3.3	2.6	2.0	-
3564	Blowers and fans	40.1	40.5	35.4	35.1	-	3.3	3.2	1.7	1.6	-
3566	Speed changers, drives, and gears	40.2	40.7	34.8	36.5	-	2.7	2.7	.7	.8	-
3568	Power transmission equipment, nec	39.7	40.8	37.3	37.7	-	1.8	2.1	1.5	.9	-
357	Office and computing machines	41.4	41.8	41.0	40.6	-	3.0	3.1	2.2	2.0	-
3573	Electronic computing equipment	41.7	42.2	41.2	40.8	-	3.3	3.4	2.5	2.2	-
358	Refrigeration and service machinery	40.4	40.7	38.8	39.1	-	2.1	2.1	1.5	1.6	-
3585	Refrigeration and heating equipment	39.5	39.7	38.8	39.0	-	2.0	1.7	1.2	1.4	-
359	Misc. machinery, except electrical	40.3	40.4	38.6	38.5	-	3.4	3.2	1.9	1.9	-
3592	Carburetors, pistons, rings, valves	39.6	40.0	37.4	37.8	-	1.8	1.7	1.5	1.4	-
3599	Machinery, except electrical, nec	40.4	40.4	38.8	38.6	-	3.7	3.4	2.0	2.0	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	39.9	39.8	38.8	39.1	39.5	2.2	2.1	1.8	1.8	-
361	Electric distributing equipment	39.7	39.5	38.7	38.0	-	2.4	2.2	2.0	1.6	-
3612	Transformers	40.3	39.5	39.4	38.5	-	2.5	2.2	2.6	1.8	-
3613	Switchgear and switchboard apparatus	39.3	39.5	38.1	37.6	-	2.3	2.2	1.4	1.4	-
362	Electrical industrial apparatus	40.2	40.1	37.2	38.3	-	2.4	2.2	1.4	1.4	-
3621	Motors and generators	40.2	40.3	37.7	39.2	-	2.4	2.2	1.5	1.5	-
3622	Industrial controls	39.8	39.9	37.5	37.5	-	2.3	2.1	1.4	1.3	-
363	Household appliances	38.7	36.0	38.6	38.4	-	1.7	1.3	1.4	1.7	-
3632	Household refrigerators and freezers	38.2	33.2	40.0	36.8	-	1.1	.5	1.2	1.2	-
3633	Household laundry equipment	37.3	33.9	38.1	38.2	-	.9	.3	.4	.8	-
3634	Electric housewares and fans	39.0	38.0	38.6	38.5	-	2.2	1.6	1.9	2.1	-
364	Electric lighting and wiring equipment	39.4	39.7	38.6	39.1	-	2.1	2.1	1.5	1.5	-
3641	Electric lamps	40.8	41.0	38.3	40.8	-	1.9	2.0	1.4	1.6	-
3643	Current-carrying wiring devices	39.4	39.8	37.8	38.5	-	2.6	2.4	1.5	1.6	-
3644	Noncurrent-carrying wiring devices	39.4	39.5	37.0	38.3	-	2.1	2.6	1.2	1.4	-
3645	Residential lighting fixtures	38.3	37.4	38.8	38.9	-	1.5	1.4	1.5	1.5	-
365	Radio and TV receiving equipment	39.8	39.7	38.1	38.7	-	1.5	1.3	1.7	1.2	-
3651	Radio and TV receiving sets	39.6	39.6	37.1	38.5	-	1.6	1.6	1.0	1.0	-
366	Communication equipment	40.6	40.6	40.0	40.1	-	2.5	2.6	2.2	2.1	-
3661	Telephone and telegraph apparatus	40.9	40.6	39.5	39.4	-	2.8	2.8	2.0	1.7	-
3662	Radio and TV communication equipment	40.4	40.6	40.2	40.4	-	2.3	2.5	2.2	2.3	-
367	Electronic components and accessories	39.7	40.1	38.9	39.3	-	2.3	2.3	2.0	2.0	-
3671-3	Electronic tubes	39.6	40.4	40.3	40.1	-	2.0	2.0	1.9	1.7	-
3674	Semiconductors and related devices	40.3	40.4	39.2	39.2	-	2.4	2.3	2.4	2.3	-
3679	Electronic components, nec	39.9	40.4	39.1	40.0	-	2.3	2.5	1.9	2.1	-
369	Misc. electrical equipment and supplies	40.7	40.5	39.1	39.3	-	2.4	2.0	1.7	1.7	-
3691	Storage batteries	42.0	41.2	38.7	39.6	-	3.1	2.4	2.5	2.4	-
3694	Engine electrical equipment	39.4	39.1	38.5	38.6	-	1.8	1.4	1.5	1.3	-
37	<b>TRANSPORTATION EQUIPMENT</b>	41.0	40.8	39.5	40.4	40.9	3.0	2.8	2.6	2.6	-
371	Motor vehicles and equipment	41.0	40.3	38.7	40.0	-	2.8	2.1	2.2	1.9	-
3711	Motor vehicles and car bodies	41.7	40.5	37.3	40.1	-	3.0	2.1	2.0	2.2	-
3713	Truck and bus bodies	40.4	40.8	40.6	38.8	-	3.0	2.7	1.7	.4	-
3714	Motor vehicle parts and accessories	40.6	40.3	39.7	40.2	-	2.6	2.1	2.5	1.9	-
3715	Truck trailers	39.3	39.1	38.6	38.3	-	2.2	1.5	.9	1.3	-
372	Aircraft and parts	41.0	41.8	40.7	41.3	-	3.4	3.5	3.3	3.5	-
3721	Aircraft	41.2	41.8	40.7	41.2	-	2.9	3.0	2.8	2.9	-
3724	Aircraft engines and engine parts	39.9	40.8	40.2	40.9	-	3.3	3.7	3.7	4.0	-
3728	Aircraft equipment, nec	42.0	42.8	41.4	42.1	-	4.3	4.4	3.7	3.9	-
373	Ship and boat building and repairing	41.5	41.0	39.7	40.2	-	3.4	3.4	2.8	3.0	-
3731	Ship building and repairing	41.9	41.2	40.2	-	-	3.4	3.4	3.2	-	-
3732	Boat building and repairing	40.1	40.3	37.6	38.5	-	3.1	3.4	1.3	2.0	-
374	Railroad equipment	39.3	39.4	38.0	37.8	-	2.6	2.3	1.5	1.6	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
	<b>TRANSPORTATION EQUIPMENT—Continued</b>										
376	Guided missiles, space vehicles, parts .....	\$418.37	\$434.89	\$450.55	\$458.06	-	\$10.33	\$10.53	\$11.07	\$11.31	-
3761	Guided missiles and space vehicles .....	430.54	447.64	466.16	473.21	-	10.71	10.87	11.26	11.57	-
379	Miscellaneous transportation equipment .....	324.41	332.05	365.51	359.91	-	8.03	8.26	9.23	9.30	-
3792	Travel trailers and campers .....	279.80	263.90	283.87	256.48	-	7.23	7.23	7.82	7.97	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> .....	307.04	313.34	335.91	334.11	\$340.75	7.60	7.68	8.44	8.48	\$8.54
381	Engineering and scientific instruments .....	328.02	331.68	345.66	349.00	-	8.02	8.07	8.62	9.65	-
382	Measuring and controlling devices .....	305.78	311.60	345.93	347.10	-	7.55	7.60	8.78	8.90	-
3822	Environmental controls .....	274.45	279.74	300.67	297.66	-	7.11	7.10	7.83	7.88	-
3823	Process control instruments .....	323.51	336.61	327.46	322.48	-	7.63	7.81	8.29	8.29	-
3825	Instruments to measure electricity .....	317.56	320.74	358.93	358.38	-	7.88	7.90	9.85	10.06	-
383	Optical instruments and lenses .....	321.50	334.95	356.00	345.63	-	8.16	8.25	8.79	8.75	-
384	Medical instruments and supplies .....	262.42	270.12	275.97	276.36	-	6.61	6.77	7.04	7.05	-
3841	Surgical and medical instruments .....	263.06	273.10	275.56	273.77	-	6.56	6.76	7.06	7.13	-
3842	Surgical appliances and supplies .....	262.52	268.49	276.28	272.30	-	6.68	6.78	7.03	7.90	-
385	Ophthalmic goods .....	226.69	230.66	241.56	233.23	-	5.71	5.81	6.10	6.17	-
386	Photographic equipment and supplies .....	415.80	418.62	440.75	435.93	-	9.90	9.92	10.75	10.73	-
387	Watches, clocks, and watchcases .....	229.50	231.06	238.76	242.53	-	5.81	5.88	6.06	6.14	-
39	<b>MISCELLANEOUS MANUFACTURING</b>										
	<b>INDUSTRIES</b>	237.77	241.35	250.51	253.24	256.50	6.05	6.11	6.49	6.51	6.56
391	Jewelry, silverware, and plated ware .....	262.02	268.52	263.50	274.13	-	6.60	6.63	6.88	6.94	-
3911	Jewelry, precious metal .....	265.16	271.75	263.15	272.30	-	6.73	6.76	6.98	7.00	-
393	Musical instruments .....	232.76	237.12	244.86	260.95	-	6.03	6.08	6.60	6.54	-
394	Toys and sporting goods .....	222.61	224.19	237.16	232.48	-	5.65	5.69	6.05	6.07	-
3942, 4	Dolls, games, toys, and children's vehicles .....	203.70	206.12	219.43	214.68	-	5.25	5.34	5.67	5.62	-
3949	Sporting and athletic goods, nec .....	243.41	242.41	254.87	249.33	-	6.07	6.03	6.42	6.51	-
395	Pens, pencils, office and art supplies .....	246.98	256.85	267.70	269.05	-	6.19	6.28	6.76	6.76	-
396	Costume jewelry and notions .....	202.79	208.68	210.43	211.14	-	5.16	5.23	5.48	5.47	-
3961	Costume jewelry .....	184.99	193.03	200.07	196.10	-	4.78	4.85	5.13	5.12	-
399	Miscellaneous manufactures .....	252.85	253.22	267.33	271.52	-	6.50	6.56	6.98	6.98	-
3993	Signs and advertising displays .....	275.18	275.41	296.04	301.07	-	7.02	7.08	7.63	7.70	-
	<b>NONDURABLE GOODS</b>										
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	296.65	302.88	315.61	312.04	317.60	7.51	7.61	7.91	7.86	8.00
201	Meat products .....	294.00	304.00	296.29	296.16	-	7.50	7.60	7.52	7.46	-
2011	Meat packing plants .....	377.15	390.64	370.12	375.62	-	9.11	9.17	8.94	8.88	-
2013	Sausages and other prepared meats .....	345.05	350.76	358.70	354.82	-	8.78	8.88	8.99	8.96	-
2016	Poultry dressing plants .....	179.22	186.00	192.18	190.32	-	4.87	5.00	5.18	5.13	-
202	Dairy products .....	311.81	323.75	343.62	334.53	-	7.68	7.82	8.30	8.26	-
2022	Cheese, natural and processed .....	285.32	298.62	311.66	306.13	-	7.26	7.41	7.89	7.89	-
2026	Fluid milk .....	327.98	340.23	361.22	350.24	-	7.98	8.12	8.58	8.46	-
203	Preserved fruits and vegetables .....	251.90	249.72	280.70	265.10	-	6.56	6.52	7.00	6.90	-
2032	Canned specialties .....	335.79	336.80	364.99	355.06	-	7.58	7.62	8.41	8.20	-
2033	Canned fruits and vegetables .....	241.98	233.36	278.11	262.48	-	6.47	6.29	6.85	6.80	-
2037	Frozen fruits and vegetables .....	237.86	238.64	278.12	252.70	-	6.36	6.33	6.80	6.43	-
204	Grain mill products .....	361.66	363.38	400.09	400.64	-	8.45	8.51	9.24	9.21	-
2041	Flour and other grain mill products .....	379.85	378.16	420.63	417.90	-	8.46	8.46	9.41	9.37	-
2048	Prepared feeds, nec .....	294.29	297.30	316.39	313.04	-	6.86	6.93	7.29	7.28	-
205	Bakery products .....	305.98	308.99	327.85	324.42	-	8.01	8.11	8.56	8.55	-
2051	Bread, cake, and related products .....	305.42	311.58	329.57	323.63	-	8.08	8.21	8.65	8.63	-
2052	Cookies and crackers .....	306.54	301.82	326.69	326.82	-	7.82	7.86	8.34	8.38	-
206	Sugar and confectionery products .....	294.94	293.35	313.60	316.92	-	7.09	7.19	7.84	7.60	-
2061-3	Cane and beet sugar .....	346.54	351.85	385.95	375.16	-	7.77	8.07	9.30	8.30	-
2065	Confectionery products .....	252.73	246.63	264.32	268.49	-	6.35	6.34	6.83	6.78	-
207	Fats and oils .....	334.96	343.77	364.56	357.52	-	7.90	7.76	8.40	8.20	-
208	Beverages .....	367.49	379.76	401.94	392.80	-	9.28	9.40	9.90	9.82	-
2082	Malt beverages .....	529.05	553.41	569.68	544.48	-	12.81	12.90	13.39	13.28	-
2086	Bottled and canned soft drinks .....	262.48	268.50	295.20	286.99	-	6.80	6.92	7.38	7.34	-
209	Misc. foods and kindred products .....	248.52	252.50	258.75	256.73	-	6.54	6.68	6.90	6.92	-
21	<b>TOBACCO MANUFACTURES</b> .....	341.60	350.75	379.93	376.66	393.72	8.67	9.04	9.57	9.56	10.20
211	Cigarettes .....	447.83	445.50	480.64	475.01	-	11.14	11.25	12.23	12.37	-
22	<b>TEXTILE MILL PRODUCTS</b> .....	225.37	224.62	223.85	228.14	231.47	5.72	5.73	5.86	5.88	5.92
221	Weaving mills, cotton .....	241.38	235.99	230.12	236.76	-	5.96	5.97	6.04	6.06	-
222	Weaving mills, synthetics .....	251.71	250.71	233.74	247.33	-	6.08	6.10	6.20	6.23	-
223	Weaving and finishing mills, wool .....	236.34	242.13	227.30	233.36	-	5.85	5.92	6.16	6.19	-
224	Narrow fabric mills .....	201.37	208.43	218.23	214.86	-	5.19	5.29	5.61	5.61	-
225	Knitting mills .....	197.40	197.78	204.17	204.92	-	5.25	5.26	5.43	5.45	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours					
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	
	<b>TRANSPORTATION EQUIPMENT—Continued</b>											
376	Guided missiles, space vehicles, parts .....	40.5	41.3	40.7	40.5	-	3.0	3.2	3.0	3.4	-	
3761	Guided missiles and space vehicles .....	40.2	41.2	41.4	40.9	-	2.8	2.9	3.2	3.6	-	
379	Miscellaneous transportation equipment .....	40.4	40.2	39.6	38.7	-	2.3	2.6	3.5	2.5	-	
3792	Travel trailers and campers .....	38.7	36.5	36.3	37.2	-	2.0	1.0	1.4	1.9	-	
	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	40.4	40.8	39.8	39.4	39.9	2.2	2.3	1.6	1.5	-	
381	Engineering and scientific instruments .....	40.9	41.1	40.1	40.3	-	2.7	2.7	2.0	2.2	-	
382	Measuring and controlling devices .....	40.5	41.0	39.4	39.0	-	2.1	2.1	1.0	1.0	-	
3822	Environmental controls .....	38.6	39.4	38.4	37.8	-	1.4	1.4	.8	.8	-	
3823	Process control instruments .....	42.4	43.1	39.5	38.9	-	3.1	3.1	1.5	1.0	-	
3825	Instruments to measure electricity .....	40.3	40.6	40.5	39.6	-	1.9	1.9	.9	.9	-	
383	Optical instruments and lenses .....	39.4	40.6	40.5	39.5	-	2.0	2.4	2.0	1.6	-	
384	Medical instruments and supplies .....	39.7	39.9	39.2	38.2	-	2.3	2.3	1.9	1.6	-	
3841	Surgical and medical instruments .....	40.1	40.4	39.6	39.3	-	2.3	2.3	2.2	1.9	-	
3842	Surgical appliances and supplies .....	39.3	39.6	39.3	38.9	-	2.4	2.6	1.9	1.5	-	
385	Ophthalmic goods .....	39.7	39.7	39.6	37.8	-	1.3	1.4	1.7	1.0	-	
386	Photographic equipment and supplies .....	42.0	42.2	41.0	41.0	-	2.8	2.7	2.0	2.2	-	
387	Watches, clocks, and watchcases .....	39.5	39.3	39.4	39.5	-	2.0	1.6	2.3	2.2	-	
	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>	39.3	39.5	38.6	38.9	39.1	2.2	2.3	1.8	1.9	-	
391	Jewelry, silverware, and plated ware .....	39.7	40.5	38.3	39.5	-	3.0	3.3	1.7	2.4	-	
3911	Jewelry, precious metal .....	39.4	40.2	37.7	38.9	-	3.2	3.7	1.8	2.4	-	
393	Musical instruments .....	38.6	39.0	37.1	39.9	-	1.6	1.4	.6	1.5	-	
394	Toys and sporting goods .....	39.4	39.4	39.2	38.3	-	2.2	2.0	1.6	1.4	-	
3942, 4	Dolls, games, toys, and children's vehicles .....	38.8	38.6	38.7	38.2	-	1.7	1.7	1.2	1.1	-	
3949	Sporting and athletic goods, nec .....	40.1	40.2	39.7	38.3	-	2.6	2.3	2.1	1.7	-	
395	Pens, pencils, office and art supplies .....	39.9	40.9	39.6	39.8	-	1.9	2.3	1.6	1.2	-	
396	Costume jewelry and notions .....	39.3	39.9	38.4	38.6	-	2.3	3.3	2.7	2.5	-	
3961	Costume jewelry .....	38.7	39.8	39.0	38.3	-	2.0	4.1	3.9	3.1	-	
399	Miscellaneous manufactures .....	38.9	38.6	38.3	38.9	-	2.0	1.8	1.9	2.0	-	
3993	Signs and advertising displays .....	39.2	38.9	38.8	39.1	-	2.5	2.2	2.0	2.1	-	
	<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS</b>	39.5	39.8	39.9	39.7	39.7	3.7	3.8	4.2	3.8	-	
201	Meat products .....	39.2	40.0	39.4	39.7	-	3.5	4.2	3.5	3.6	-	
2011	Meat packing plants .....	41.4	42.6	41.4	42.3	-	4.5	5.6	4.8	4.7	-	
2013	Sausages and other prepared meats .....	39.3	39.5	39.9	39.6	-	3.5	3.7	3.4	3.4	-	
2016	Poultry dressing plants .....	36.8	37.2	37.1	37.1	-	2.3	2.8	2.4	2.7	-	
202	Dairy products .....	40.6	41.4	41.4	40.5	-	3.4	3.8	4.3	3.5	-	
2022	Cheese, natural and processed .....	39.3	40.3	39.5	38.8	-	2.9	3.5	3.7	3.0	-	
2026	Fluid milk .....	41.1	41.9	42.1	41.4	-	3.8	4.2	4.7	3.9	-	
203	Preserved fruits and vegetables .....	38.4	38.3	40.1	39.0	-	3.3	2.8	5.4	4.4	-	
2032	Canned specialties .....	44.3	44.2	43.4	43.3	-	4.6	4.9	6.1	7.3	-	
2033	Canned fruits and vegetables .....	37.4	37.1	40.6	38.6	-	3.4	2.6	6.1	4.6	-	
2037	Frozen fruits and vegetables .....	37.4	37.7	40.9	39.3	-	3.4	2.6	6.5	4.3	-	
204	Grain mill products .....	42.8	42.7	43.3	43.5	-	5.7	5.2	6.1	5.9	-	
2041	Flour and other grain mill products .....	44.9	44.7	44.7	44.6	-	5.6	5.2	7.1	6.9	-	
2048	Prepared feeds, nec .....	42.9	42.9	43.4	43.0	-	5.7	5.5	6.0	5.5	-	
205	Bakery products .....	38.2	38.1	38.3	37.9	-	3.0	3.0	3.1	2.9	-	
2051	Bread, cake, and related products .....	37.8	38.0	38.1	37.5	-	3.1	3.4	3.3	2.9	-	
2052	Cookies and crackers .....	39.2	38.4	39.1	39.0	-	2.7	2.1	2.7	2.3	-	
206	Sugar and confectionery products .....	41.6	40.8	40.0	41.7	-	4.3	3.5	5.4	4.2	-	
2061-3	Cane and beet sugar .....	44.6	43.6	41.5	42.2	-	6.7	5.4	5.2	7.2	-	
2065	Confectionery products .....	39.8	38.9	38.7	39.6	-	3.2	2.7	2.4	2.5	-	
207	Fats and oils .....	42.4	44.3	43.4	43.6	-	5.7	6.6	5.7	5.5	-	
208	Beverages .....	39.6	40.4	40.6	40.0	-	3.8	3.9	4.0	3.5	-	
2082	Malt beverages .....	41.3	42.9	42.5	41.0	-	6.2	6.7	5.4	4.6	-	
2086	Bottled and canned soft drinks .....	38.6	38.8	40.0	39.1	-	2.9	3.0	3.3	2.7	-	
209	Misc. foods and kindred products .....	38.0	37.8	37.5	37.1	-	3.2	3.2	3.1	2.8	-	
	<b>TOBACCO MANUFACTURES</b>	39.4	38.8	39.7	39.4	38.6	1.9	2.2	1.8	2.2	-	
211	Cigarettes .....	40.2	39.6	39.3	38.4	-	2.5	2.7	1.9	1.8	-	
	<b>TEXTILE MILL PRODUCTS</b>	39.4	39.2	38.2	38.8	39.1	2.8	2.8	2.3	2.5	-	
221	Weaving mills, cotton .....	40.5	40.2	38.1	39.4	-	3.1	3.1	2.5	2.8	-	
222	Weaving mills, synthetics .....	41.4	41.1	37.7	39.7	-	3.8	3.6	2.0	2.3	-	
223	Weaving and finishing mills, wool .....	40.4	40.9	36.9	37.7	-	4.0	4.2	2.8	2.8	-	
224	Narrow fabric mills .....	38.8	38.9	38.9	38.3	-	2.4	2.8	1.6	1.5	-	
225	Knitting mills .....	37.6	37.6	37.6	37.6	-	2.1	2.0	2.2	2.3	-	

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982F	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982F	Nov. 1982P
<b>TEXTILE MILL PRODUCTS—Continued</b>											
2251	Women's hosiery, except socks	\$185.87	\$193.17	\$203.68	\$201.02	-	\$5.01	\$5.07	\$5.36	\$5.29	-
2252	Hosiery, nec	186.24	180.31	191.05	200.75	-	4.94	4.94	5.22	5.27	-
2253	Knit outerwear mills	195.43	194.91	196.65	196.84	-	5.17	5.17	5.23	5.32	-
2254	Knit underwear mills	181.22	179.99	183.37	187.76	-	5.02	5.07	5.18	5.23	-
2257	Circular knit fabric mills	230.68	234.24	248.46	236.00	-	5.93	5.93	6.06	6.71	-
226	Textile finishing, except wool	245.01	247.23	247.10	246.25	-	6.11	6.15	6.24	6.25	-
2261	Finishing plants, cotton	246.23	244.77	248.58	244.53	-	6.11	6.15	6.23	6.27	-
2262	Finishing plants, synthetics	257.35	263.57	249.72	254.28	-	6.37	6.46	6.52	6.52	-
227	Floor covering mills	227.35	225.38	231.55	237.37	-	5.92	5.90	6.03	6.04	-
228	Yarn and thread mills	208.50	203.68	210.48	212.52	-	5.36	5.36	5.51	5.52	-
2281	Yarn mills, except wool	209.28	203.36	211.85	212.94	-	5.38	5.38	5.46	5.46	-
2282	Throwing and winding mills	200.34	196.61	203.25	197.84	-	5.15	5.12	5.42	5.45	-
229	Miscellaneous textile goods	257.26	257.07	267.71	265.32	-	6.29	6.27	6.61	6.60	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	180.79	180.43	182.52	183.56	\$184.45	5.05	5.04	5.20	5.20	\$5.24
231	Men's and boys' suits and coats	212.58	214.33	208.49	211.32	-	5.84	5.84	5.94	6.09	-
232	Men's and boys' furnishings	168.17	168.60	171.00	170.65	-	4.62	4.65	4.79	4.78	-
2321	Men's and boys' shirts and nightwear	163.99	166.35	163.22	162.62	-	4.53	4.57	4.65	4.52	-
2327	Men's and boys' separate trousers	171.34	175.01	170.72	173.50	-	4.72	4.73	4.85	4.86	-
2328	Men's and boys' work clothing	165.13	166.35	173.63	172.31	-	4.51	4.57	4.77	4.76	-
233	Women's and misses' outerwear	169.68	168.67	169.76	171.31	-	5.02	5.02	5.16	5.16	-
2331	Women's and misses' blouses and waists	160.95	160.35	162.93	166.60	-	4.72	4.73	4.75	4.76	-
2335	Women's and misses' dresses	169.11	166.02	167.38	170.77	-	5.14	5.14	5.28	5.32	-
2337	Women's and misses' suits and coats	181.91	183.26	183.61	181.90	-	5.58	5.52	5.72	5.72	-
2339	Women's and misses' outerwear, nec	169.53	167.95	168.84	169.32	-	4.83	4.84	5.01	4.98	-
234	Women's and children's undergarments	167.99	168.63	169.22	174.65	-	4.59	4.62	4.74	4.76	-
2341	Women's and children's underwear	165.88	166.08	167.65	172.96	-	4.52	4.55	4.67	4.70	-
2342	Brassieres and allied garments	177.38	175.82	179.40	183.09	-	4.90	4.94	5.17	5.10	-
236	Children's outerwear	167.40	169.82	164.85	166.95	-	4.65	4.64	4.67	4.68	-
2361	Children's dresses and blouses	166.06	165.24	159.51	169.42	-	4.60	4.59	4.61	4.68	-
238	Misc. apparel and accessories	187.13	190.38	186.54	190.94	-	4.99	5.01	5.24	5.26	-
239	Misc. fabricated textile products	225.97	223.30	234.69	231.55	-	5.90	5.80	6.08	6.03	-
2391	Curtains and draperies	160.38	160.92	178.26	168.48	-	4.48	4.47	4.63	4.80	-
2392	House furnishing, nec	197.39	198.66	205.93	208.28	-	5.01	5.06	5.24	5.22	-
2396	Automotive and apparel trimmings	403.22	393.57	405.73	405.67	-	10.26	10.04	10.43	10.27	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	373.97	376.05	401.57	396.98	403.20	8.82	8.89	9.63	9.52	9.60
261, 2.6	Paper and pulp mills	462.65	462.17	504.83	491.19	-	10.42	10.48	11.37	11.24	-
262	Paper mills, except building paper	465.30	466.82	511.43	456.16	-	10.34	10.42	11.34	11.20	-
263	Paperboard mills	459.39	462.61	474.57	468.95	-	10.37	10.49	11.67	11.41	-
264	Misc. converted paper products	318.20	322.64	338.58	337.77	-	7.78	7.85	8.36	8.34	-
2641	Paper coating and glazing	376.58	384.07	392.47	357.63	-	8.84	8.87	9.48	9.49	-
2642	Envelopes	290.97	295.71	305.60	310.64	-	7.22	7.23	7.64	7.67	-
2643	Bags, except textile bags	300.94	306.27	321.81	319.39	-	7.34	7.38	7.83	7.79	-
265	Paperboard containers and boxes	317.54	316.11	340.66	341.12	-	7.67	7.71	8.37	8.32	-
2651	Folding paperboard boxes	320.80	324.50	341.78	343.54	-	7.73	7.81	8.46	8.42	-
2653	Corrugated and solid fiber boxes	338.10	331.28	367.84	363.27	-	8.05	8.08	8.80	8.67	-
2654	Sanitary food containers	295.92	303.26	314.03	320.40	-	7.20	7.29	7.91	7.99	-
27	<b>PRINTING AND PUBLISHING</b>	312.48	314.07	331.08	328.56	331.82	8.40	8.42	8.90	8.88	8.92
271	Newspapers	286.24	287.24	300.16	295.48	-	8.57	8.60	8.96	8.90	-
272	Periodicals	292.06	300.55	336.50	342.75	-	7.83	8.09	9.07	9.14	-
273	Books	296.29	298.36	321.26	323.19	-	7.88	7.79	8.41	8.55	-
2731	Book publishing	276.35	284.64	303.75	295.65	-	7.53	7.55	8.10	8.10	-
2732	Book printing	317.24	313.15	341.25	355.39	-	8.24	8.05	8.75	9.02	-
274	Miscellaneous publishing	277.97	273.92	296.75	293.02	-	7.70	7.63	8.13	8.05	-
275	Commercial printing	336.59	335.72	356.43	352.13	-	8.72	8.72	9.21	9.17	-
2751	Commercial printing, letterpress	314.11	311.33	336.98	329.08	-	8.18	8.15	8.73	8.66	-
2752	Commercial printing, lithographic	347.53	345.66	363.39	360.91	-	8.98	8.96	9.39	9.35	-
276	Manifold business forms	334.06	342.31	341.50	351.65	-	8.31	8.39	8.87	8.88	-
278	Blankbooks and bookbinding	244.22	249.48	261.59	261.13	-	6.41	6.43	6.83	6.89	-
279	Printing trade services	392.70	356.66	410.58	407.86	-	10.28	10.36	10.72	10.79	-
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	388.86	391.67	420.24	417.79	422.30	9.37	9.42	10.20	10.24	10.25
281	Industrial inorganic chemicals	431.55	438.84	456.92	453.66	-	10.50	10.60	11.31	11.37	-
2819	Industrial inorganic chemicals, nec	432.72	438.54	456.46	455.17	-	10.58	10.67	11.44	11.57	-
282	Plastics materials and synthetics	381.47	386.32	424.96	413.70	-	9.17	9.22	10.24	10.24	-
2821	Plastics materials and resins	426.70	431.00	464.36	457.88	-	10.04	10.07	11.03	11.26	-
2824	Organic fibers, noncellulosic	357.79	361.57	402.11	387.29	-	8.58	8.65	9.76	9.78	-
283	Drugs	351.88	360.26	379.76	384.29	-	8.52	8.66	9.24	9.35	-
2834	Pharmaceutical preparations	332.10	341.12	362.39	366.02	-	8.20	8.32	8.97	9.06	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982F	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
		<b>TEXTILE MILL PRODUCTS—Continued</b>									
2251	Women's hosiery, except socks	37.1	38.1	38.0	38.0	-	2.2	2.4	2.3	2.0	-
2252	Hosiery, nec	37.7	36.5	36.6	38.1	-	2.0	1.6	1.8	2.3	-
2253	Knit outerwear mills	37.8	37.7	37.6	37.0	-	2.4	2.0	2.2	2.3	-
2254	Knit underwear mills	36.1	35.5	35.4	35.5	-	1.2	1.2	1.3	1.3	-
2257	Circular knit fabric mills	38.9	35.5	41.0	35.6	-	2.4	2.8	3.5	3.5	-
226	Textile finishing, except wool	40.1	40.2	39.6	39.4	-	3.2	3.5	2.5	2.9	-
2261	Finishing plants, cotton	40.3	39.8	39.9	39.0	-	3.0	3.0	2.2	2.5	-
2262	Finishing plants, synthetics	40.4	40.8	38.3	39.0	-	3.5	4.3	2.7	2.3	-
227	Floor covering mills	38.4	38.2	38.4	39.3	-	2.3	1.9	2.1	2.3	-
228	Yarn and thread mills	38.9	38.0	38.2	38.5	-	2.5	2.2	2.6	2.5	-
2281	Yarn mills, except wool	38.9	37.8	38.8	39.0	-	2.5	2.1	2.8	2.5	-
2282	Throwing and winding mills	38.9	38.4	37.5	36.3	-	3.0	2.7	2.2	1.8	-
229	Miscellaneous textile goods	40.9	41.0	40.5	40.2	-	3.5	3.3	2.7	2.6	-
<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>											
23	Men's and boys' suits and coats	35.8	35.8	35.1	35.3	35.2	1.2	1.2	1.0	1.1	-
231	Men's and boys' suits and coats	36.4	36.7	35.1	34.7	-	.8	.9	.7	.6	-
232	Men's and boys' furnishings	36.4	36.3	35.7	35.7	-	.9	1.0	.9	.9	-
2321	Men's and boys' shirts and nightwear	36.2	36.4	35.1	35.2	-	.9	1.0	1.0	1.1	-
2327	Men's and boys' separate trousers	36.3	37.0	35.2	35.7	-	.9	1.0	.9	.9	-
2328	Men's and boys' work clothing	37.5	36.4	36.4	36.2	-	1.0	1.0	1.2	.0	-
233	Women's and misses' outerwear	33.8	32.6	32.9	33.2	-	1.0	.9	.9	1.0	-
2331	Women's and misses' blouses and waists	34.1	33.9	34.3	35.0	-	.9	.8	1.1	1.2	-
2335	Women's and misses' dresses	32.9	32.3	31.7	32.1	-	1.0	.9	.7	.8	-
2337	Women's and misses' suits and coats	32.6	32.2	32.1	31.8	-	.8	1.0	.9	.8	-
2339	Women's and misses' outerwear, nec	35.1	34.7	33.7	34.0	-	1.1	1.0	.8	1.0	-
234	Women's and children's undergarments	36.6	36.5	35.7	36.7	-	1.6	1.5	.9	1.3	-
2341	Women's and children's underwear	36.7	36.5	35.5	36.8	-	1.7	1.6	1.0	1.4	-
2342	Brassieres and allied garments	36.2	36.4	34.7	35.9	-	1.3	1.2	.6	.8	-
236	Children's outerwear	36.0	36.6	35.3	36.1	-	1.4	.9	.9	1.3	-
2361	Children's dresses and blouses	36.1	36.0	34.6	36.2	-	1.5	1.3	.8	1.3	-
238	Misc. apparel and accessories	37.5	38.0	35.6	36.3	-	1.8	1.7	1.2	1.5	-
239	Misc. fabricated textile products	38.3	38.5	38.6	38.4	-	2.0	1.8	1.8	1.9	-
2391	Curtains and draperies	35.8	36.0	38.5	35.1	-	.8	.9	1.6	1.1	-
2392	House furnishings, nec	39.4	39.3	39.3	39.9	-	2.6	2.8	2.6	2.9	-
2396	Automotive and apparel trimmings	39.3	39.2	38.9	39.5	-	2.0	.8	2.1	1.9	-
<b>PAPER AND ALLIED PRODUCTS</b>											
26	Paper and pulp mills	42.4	42.3	41.7	41.7	42.0	4.4	4.2	4.6	4.2	-
261, 2, 6	Paper mills, except building paper	44.4	44.1	44.4	43.7	-	6.0	6.0	7.0	6.0	-
262	Paper mills, except building paper	45.0	44.8	45.1	44.3	-	6.3	6.2	7.3	6.1	-
263	Paperboard mills	44.3	44.1	40.7	41.1	-	7.1	6.6	7.2	6.4	-
264	Misc. converted paper products	40.9	41.1	40.5	40.5	-	2.9	2.9	2.7	2.6	-
2641	Paper coating and glazing	42.6	43.3	41.4	41.9	-	3.0	3.3	2.7	2.4	-
2642	Envelopes	40.3	40.9	40.0	40.5	-	2.7	2.7	2.2	2.2	-
2643	Bags, except textile bags	41.0	41.5	41.1	41.0	-	3.3	3.3	3.1	3.1	-
265	Paperboard containers and boxes	41.4	41.0	40.7	41.0	-	3.4	3.0	3.5	3.3	-
2651	Folding paperboard boxes	41.5	41.6	40.4	40.8	-	3.5	3.3	3.1	3.0	-
2653	Corrugated and solid fiber boxes	42.0	41.0	41.8	41.9	-	3.9	3.2	4.3	4.1	-
2654	Sanitary food containers	41.1	41.6	39.7	40.1	-	2.5	2.4	2.5	2.4	-
<b>PRINTING AND PUBLISHING</b>											
27	Newspapers	37.2	37.3	37.2	37.0	37.2	2.6	2.6	2.5	2.4	-
271	Newspapers	33.4	33.4	33.5	33.2	-	1.8	1.6	1.6	1.4	-
272	Periodicals	37.3	37.2	37.1	37.5	-	2.7	2.4	2.5	2.8	-
273	Books	37.6	38.3	38.2	37.8	-	2.2	2.3	2.1	2.5	-
2731	Book publishing	36.7	37.7	37.5	36.5	-	.8	1.1	1.1	1.1	-
2732	Book printing	38.5	38.9	39.0	38.4	-	3.7	3.6	3.3	4.2	-
274	Miscellaneous publishing	36.1	35.9	36.5	36.4	-	1.7	1.4	1.4	1.5	-
275	Commercial printing	38.6	38.5	38.7	38.4	-	3.2	3.1	3.1	2.9	-
2751	Commercial printing, letterpress	38.4	38.2	38.6	38.0	-	2.6	2.6	3.0	2.6	-
2752	Commercial printing, lithographic	38.7	38.6	38.7	38.6	-	3.5	3.3	3.1	2.9	-
276	Manifold business forms	40.2	40.8	38.5	39.6	-	3.3	3.4	2.2	2.3	-
278	Blankbooks and bookbinding	38.1	38.8	38.3	37.9	-	1.7	1.5	1.7	1.4	-
279	Printing trade service	38.2	38.5	38.3	37.8	-	3.6	3.4	3.8	3.5	-
<b>CHEMICALS AND ALLIED PRODUCTS</b>											
28	Industrial inorganic chemicals	41.5	41.6	41.2	40.8	41.2	3.3	3.1	3.1	2.7	-
281	Industrial inorganic chemicals	41.1	41.4	40.4	39.9	-	3.4	3.4	3.6	3.0	-
2819	Industrial inorganic chemicals, nec	40.9	41.1	39.9	39.6	-	3.3	3.3	3.7	3.2	-
282	Plastics materials and synthetics	41.6	41.9	41.5	40.4	-	3.3	2.9	2.9	2.5	-
2821	Plastics materials and resins	42.5	42.8	42.1	41.4	-	4.3	3.9	4.1	3.3	-
2824	Organic fibers, noncellulosic	41.7	41.8	41.2	39.6	-	2.8	2.3	1.8	1.5	-
283	Drugs	41.3	41.6	41.1	41.1	-	2.8	2.9	2.9	2.7	-
2834	Pharmaceutical preparations	40.5	41.0	40.4	40.4	-	2.8	2.9	2.9	2.7	-

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				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982 <sup>2</sup>	Nov. 1982 <sup>2</sup>	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982 <sup>2</sup>	Nov. 1982 <sup>2</sup>
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	\$346.63	\$352.00	\$376.99	\$384.99	-	\$8.58	\$8.67	\$9.24	\$9.39	-
2841	Soap and other detergents .....	469.69	479.40	513.65	521.94	-	11.13	11.28	11.89	12.11	-
2844	Toilet preparations .....	261.80	262.58	288.95	295.46	-	6.73	6.75	7.39	7.48	-
2842, 3	Polishing, sanitation, and finishing preparations .....	345.17	353.50	364.90	383.45	-	8.46	8.58	8.90	8.93	-
285	Paints and allied products .....	326.82	320.72	354.82	351.55	-	8.15	8.14	8.96	8.90	-
286	Industrial organic chemicals .....	480.82	473.19	517.23	510.34	-	11.13	11.03	12.17	12.18	-
2865	Cyclic crudes and intermediates .....	453.88	444.51	477.43	482.30	-	10.58	10.41	11.56	11.85	-
2861, 9	Gum, wood, and industrial organic chemicals, nec .....	490.16	483.75	530.24	519.44	-	11.32	11.25	12.36	12.28	-
287	Agricultural chemicals .....	391.00	390.22	419.84	414.39	-	9.20	9.16	10.02	9.89	-
289	Miscellaneous chemical products .....	358.39	364.42	380.55	379.89	-	8.72	8.76	9.35	9.38	-
	<b>PETROLEUM AND COAL PRODUCTS</b> .....	494.36	499.10	572.95	547.18	\$556.70	11.47	11.58	12.62	12.55	\$12.71
291	Petroleum refining .....	529.05	535.41	617.38	587.77	-	12.19	12.28	13.48	13.45	-
295	Paving and roofing materials .....	389.10	377.24	446.49	425.28	-	9.07	9.09	9.77	9.60	-
	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	293.46	291.67	307.30	304.17	308.48	7.30	7.31	7.76	7.72	7.79
301	Tires and inner tubes .....	476.01	463.49	481.39	468.80	-	11.47	11.36	11.77	11.72	-
302	Rubber and plastics footwear .....	182.09	181.67	189.07	157.37	-	4.83	4.91	5.11	5.10	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting .....	326.82	315.59	325.22	324.01	-	8.03	8.05	8.05	8.02	-
306	Fabricated rubber products, nec .....	276.58	277.49	289.69	287.39	-	6.88	6.92	7.39	7.35	-
307	Miscellaneous plastics products .....	264.80	265.07	281.95	278.64	-	6.62	6.66	7.12	7.09	-
	<b>LEATHER AND LEATHER PRODUCTS</b> .....	186.80	187.03	192.06	189.19	192.42	5.09	5.11	5.41	5.39	5.39
311	Leather tanning and finishing .....	262.19	260.55	277.42	281.69	-	6.74	6.75	7.15	7.26	-
314	Footwear, except rubber .....	177.25	178.33	182.70	178.05	-	4.91	4.94	5.22	5.16	-
3143	Men's footwear, except athletic .....	191.21	187.31	193.83	187.53	-	5.14	5.16	5.46	5.42	-
3144	Women's footwear, except athletic .....	166.47	169.92	176.47	171.86	-	4.77	4.80	5.13	5.04	-
316	Luggage .....	206.22	205.33	210.50	208.76	-	5.47	5.49	5.88	6.14	-
317	Handbags and personal leather goods .....	180.38	180.00	175.73	173.89	-	4.81	4.80	4.95	4.94	-
	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	388.65	393.96	405.85	405.19	406.07	9.94	10.05	10.46	10.47	10.52
	<b>RAILROAD TRANSPORTATION:</b>										
4011	Class I railroads <sup>2</sup> .....	453.05	457.50	465.92	-	-	10.61	10.79	11.59	-	-
	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	229.83	231.17	240.70	244.37	-	6.74	6.88	7.25	7.23	-
411	Local and suburban transportation .....	295.94	298.80	307.71	312.05	-	7.38	7.47	7.81	7.88	-
413	Intercity highway transportation .....	386.60	396.01	442.65	-	-	10.65	10.82	12.33	-	-
	<b>TRUCKING AND WAREHOUSING</b> .....	389.32	391.02	398.66	394.34	-	10.06	10.13	10.36	10.35	-
421, 3	Trucking and trucking terminals .....	399.64	400.28	406.66	403.56	-	10.30	10.37	10.59	10.62	-
422	Public warehousing .....	260.06	273.29	290.72	278.98	-	6.88	7.08	7.36	7.03	-
	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	498.74	500.87	567.24	554.98	-	11.68	11.73	13.04	13.12	-
	<b>COMMUNICATION</b> .....	397.79	402.40	415.15	414.49	-	10.02	10.06	10.51	10.52	-
481	Telephone communication .....	418.40	422.34	441.29	441.38	-	10.46	10.48	11.06	11.09	-
4817	Switchboard operating employees <sup>3</sup> .....	289.85	302.23	316.65	331.20	-	8.55	8.66	9.43	9.60	-
4818	Line construction employees <sup>4</sup> .....	524.29	525.92	548.27	545.98	-	11.97	11.98	12.84	12.88	-
483	Radio and television broadcasting .....	316.30	323.09	330.22	323.36	-	8.39	8.48	8.69	8.60	-
	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....	422.69	429.53	449.90	458.16	-	10.21	10.35	10.92	11.04	-
491	Electric services .....	429.93	434.30	459.68	466.77	-	10.31	10.44	11.05	11.14	-
492	Gas production and distribution .....	387.32	385.78	401.36	411.86	-	9.47	9.53	9.91	10.07	-
493	Combination utility services .....	477.25	490.31	516.25	523.32	-	11.50	11.73	12.50	12.61	-
495	Sanitary services .....	329.99	333.29	361.50	369.46	-	7.99	8.07	8.69	8.86	-
	<b>WHOLESALE AND RETAIL TRADE</b> .....	192.32	192.68	200.95	200.97	200.66	6.01	6.04	6.26	6.30	6.31
	<b>WHOLESALE TRADE</b> .....	298.38	300.69	312.58	314.55	314.93	7.73	7.79	8.14	8.17	8.18
	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	301.86	303.42	313.12	314.67	-	7.74	7.80	8.07	8.11	-
501	Motor vehicles and automotive equipment .....	269.47	270.94	279.21	279.57	-	7.11	7.13	7.29	7.31	-
502	Furniture and home furnishings .....	267.38	268.91	280.50	282.00	-	7.13	7.19	7.50	7.48	-
503	Lumber and construction materials .....	314.82	313.21	311.59	313.53	-	7.97	7.99	8.01	8.06	-
504	Sporting goods, toys, and hobby goods .....	307.31	306.12	324.42	323.57	-	8.13	8.12	8.56	8.56	-

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				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	40.4	40.6	40.8	41.0	-	2.9	2.7	3.1	2.9	-
2841	Soap and other detergents .....	42.2	42.5	43.2	43.1	-	3.9	3.6	4.7	4.4	-
2844	Toilet preparations .....	38.9	38.9	39.1	39.5	-	2.4	2.2	2.1	2.1	-
2842, 3	Polishing, sanitation, and finishing preparations .....	40.8	41.2	41.0	40.7	-	2.6	2.7	3.0	2.5	-
285	Paints and allied products .....	40.1	39.4	39.6	39.5	-	2.2	1.5	2.1	1.7	-
286	Industrial organic chemicals .....	43.2	42.9	42.5	41.9	-	4.2	3.7	3.3	2.8	-
2865	Cyclic crudes and intermediates .....	42.9	42.7	41.3	40.7	-	3.8	3.1	3.0	2.5	-
2861, 9	Gum, wood, and industrial organic chemicals, nec .....	43.3	43.0	42.9	42.3	-	4.3	3.9	3.4	2.9	-
287	Agricultural chemicals .....	42.5	42.6	41.9	41.9	-	4.1	4.0	3.7	3.3	-
289	Miscellaneous chemical products .....	41.1	41.6	40.7	40.5	-	3.1	3.0	2.8	2.6	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	43.1	43.1	45.4	43.6	43.8	4.0	4.1	4.5	4.3	-
291	Petroleum refining .....	43.4	43.6	45.8	43.7	-	3.8	4.1	3.8	3.4	-
295	Paving and roofing materials .....	42.9	41.5	45.7	44.3	-	5.9	5.0	8.1	5.8	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	40.2	39.9	39.6	39.4	39.6	3.0	2.6	2.8	2.4	-
301	Tires and inner tubes .....	41.5	40.8	40.9	40.0	-	3.4	2.4	2.9	2.3	-
302	Rubber and plastics footwear .....	37.7	37.0	37.0	36.7	-	1.8	1.5	1.1	1.7	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting .....	40.7	39.7	40.4	40.4	-	2.9	1.8	2.6	1.7	-
306	Fabricated rubber products, nec .....	40.2	40.1	39.2	39.1	-	2.6	2.4	2.4	2.1	-
307	Miscellaneous plastics products .....	40.0	39.8	39.6	39.3	-	3.1	2.8	2.9	2.7	-
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	36.7	36.6	35.5	35.1	35.7	1.3	1.3	1.2	1.1	-
311	Leather tanning and finishing .....	38.9	38.6	38.8	38.8	-	2.3	2.4	1.9	2.3	-
314	Footwear, except rubber .....	36.1	36.1	35.0	34.7	-	1.0	.9	1.1	.9	-
3143	Men's footwear, except athletic .....	37.2	36.3	35.5	34.6	-	1.1	.9	.7	.4	-
3144	Women's footwear, except athletic .....	34.9	35.4	34.4	34.1	-	.8	.9	1.4	1.2	-
316	Luggage .....	37.7	37.4	35.8	34.0	-	1.2	1.5	1.6	1.5	-
317	Handbags and personal leather goods .....	37.5	37.5	35.5	35.2	-	2.2	1.8	1.0	1.2	-
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	39.1	39.2	38.8	38.7	38.6	-	-	-	-	-
4011	<b>RAILROAD TRANSPORTATION:</b> Class I railroads <sup>2</sup> .....	42.7	42.4	40.2	-	-	-	-	-	-	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	34.1	33.6	33.2	33.8	-	-	-	-	-	-
411	Local and suburban transportation .....	40.1	40.0	39.4	39.6	-	-	-	-	-	-
413	Intercity highway transportation .....	36.3	36.6	35.9	-	-	-	-	-	-	-
42	<b>TRUCKING AND WAREHOUSING</b> .....	38.7	38.6	38.5	38.1	-	-	-	-	-	-
421, 3	Trucking and trucking terminals .....	38.8	38.6	38.4	38.0	-	-	-	-	-	-
422	Public warehousing .....	37.8	38.6	39.5	39.4	-	-	-	-	-	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	42.7	42.7	43.5	42.3	-	-	-	-	-	-
48	<b>COMMUNICATION</b> .....	39.7	40.0	39.5	39.4	-	-	-	-	-	-
481	Telephone communication .....	40.0	40.3	39.9	39.8	-	-	-	-	-	-
4817	Switchboard operating employees <sup>3</sup> .....	33.9	34.9	33.6	34.5	-	-	-	-	-	-
4818	Line construction employees <sup>4</sup> .....	43.8	43.9	42.7	42.7	-	-	-	-	-	-
483	Radio and television broadcasting .....	37.7	36.1	38.0	37.6	-	-	-	-	-	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....	41.4	41.5	41.2	41.5	-	-	-	-	-	-
491	Electric services .....	41.7	41.6	41.6	41.9	-	-	-	-	-	-
492	Gas production and distribution .....	40.9	40.9	40.5	40.9	-	-	-	-	-	-
493	Combination utility services .....	41.5	41.8	41.3	41.5	-	-	-	-	-	-
495	Sanitary services .....	41.3	41.3	41.6	41.7	-	-	-	-	-	-
-	<b>WHOLESALE AND RETAIL TRADE</b> .....	32.0	31.9	32.1	31.9	31.8	-	-	-	-	-
50, 51	<b>WHOLESALE TRADE</b> .....	38.6	38.6	38.4	38.5	38.5	-	-	-	-	-
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	39.0	38.9	38.8	38.8	-	-	-	-	-	-
501	Motor vehicles and automotive equipment .....	37.9	38.0	38.3	38.3	-	-	-	-	-	-
502	Furniture and home furnishings .....	37.5	37.4	37.4	37.7	-	-	-	-	-	-
503	Lumber and construction materials .....	39.5	39.2	38.9	38.9	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods .....	37.8	37.7	37.9	37.8	-	-	-	-	-	-

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				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
<b>WHOLESALE TRADE-DURABLE GOODS—Continued</b>											
505	Metals and minerals, except petroleum .....	\$351.35	\$352.04	\$350.49	\$354.64	-	\$8.85	\$8.89	\$9.01	\$9.07	-
506	Electrical goods .....	324.18	326.09	338.82	340.95	-	8.27	8.34	8.71	8.72	-
507	Hardware, plumbing, and heating equipment .....	278.25	278.31	291.04	292.22	-	7.19	7.21	7.54	7.59	-
508	Machinery, equipment, and supplies .....	312.44	315.19	325.75	327.27	-	7.93	8.02	8.31	8.37	-
509	Miscellaneous durable goods .....	246.38	246.45	251.08	253.72	-	6.35	6.42	6.66	6.73	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> .....	294.90	297.58	312.68	313.50	-	7.72	7.79	8.25	8.25	-
511	Paper and paper products .....	319.68	316.46	327.59	329.36	-	8.64	8.53	8.83	8.83	-
512	Drugs, proprietaries, and sundries .....	306.27	310.90	338.83	336.90	-	8.30	8.38	8.87	9.13	-
513	Apparel, piece goods, and notions .....	256.13	255.13	279.56	287.21	-	6.83	6.86	7.67	7.70	-
514	Groceries and related products .....	297.61	301.85	316.23	318.14	-	7.71	7.82	8.30	8.35	-
516	Chemicals and allied products .....	352.42	360.59	372.88	370.76	-	9.13	9.28	9.66	9.63	-
517	Petroleum and petroleum products .....	364.59	367.88	397.94	388.51	-	9.23	9.29	9.85	9.81	-
518	Beer, wine, and distilled beverages .....	335.62	339.46	349.93	354.90	-	9.12	9.20	9.64	9.75	-
519	Miscellaneous nondurable goods .....	244.22	244.48	252.97	255.56	-	6.36	6.40	6.71	6.69	-
52-59	<b>RETAIL TRADE</b> .....	157.64	158.54	166.70	165.39	\$165.43	5.29	5.32	5.52	5.55	\$5.57
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	213.23	213.85	219.35	217.87	-	5.81	5.86	6.11	6.12	-
521	Lumber and other building materials .....	233.47	232.03	231.73	231.31	-	6.08	6.09	6.28	6.32	-
525	Hardware stores .....	173.23	175.08	180.69	180.30	-	5.11	5.18	5.33	5.35	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	150.28	149.41	160.19	159.98	-	5.20	5.17	5.43	5.46	-
531	Department stores .....	155.19	154.08	166.11	165.86	-	5.37	5.35	5.65	5.68	-
533	Variety stores .....	122.55	122.93	125.16	123.43	-	4.27	4.21	4.20	4.17	-
539	Misc. general merchandise stores .....	124.12	125.11	130.96	131.81	-	4.28	4.27	4.38	4.35	-
54	<b>FOOD STORES</b> .....	210.45	212.19	227.49	223.92	-	6.90	6.98	7.41	7.39	-
541	Grocery stores .....	219.20	221.96	237.62	232.86	-	7.14	7.23	7.69	7.66	-
546	Retail bakeries .....	140.06	139.08	145.58	144.21	-	4.88	4.88	5.02	5.05	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	227.77	229.13	234.24	234.12	-	6.09	6.11	6.28	6.26	-
551, 2	New and used car dealers .....	267.78	270.72	276.32	275.53	-	7.01	7.05	7.31	7.27	-
553	Auto and home supply stores .....	228.00	230.68	238.14	236.56	-	5.70	5.71	5.88	5.87	-
554	Gasoline service stations .....	172.04	171.91	177.76	179.63	-	4.86	4.87	5.05	5.06	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	134.05	134.14	136.71	137.83	-	4.72	4.74	4.90	4.94	-
561	Men's and boys' clothing and furnishings .....	165.36	164.47	168.91	170.63	-	5.30	5.34	5.52	5.54	-
562	Women's ready-to-wear stores .....	119.41	118.63	122.93	122.55	-	4.39	4.41	4.57	4.59	-
565	Family clothing stores .....	129.46	130.85	137.97	136.71	-	4.64	4.69	4.91	4.90	-
566	Shoe stores .....	141.22	141.93	140.72	144.52	-	4.99	4.98	5.08	5.18	-
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	208.98	210.02	215.69	214.66	-	6.04	6.07	6.27	6.24	-
571	Furniture and home furnishings stores .....	207.95	209.07	215.51	214.15	-	6.01	6.06	6.32	6.28	-
572	Household appliance stores .....	217.27	219.83	233.95	232.67	-	6.19	6.21	6.59	6.61	-
573	Radio, television, and music stores .....	208.12	207.09	206.31	204.83	-	6.05	6.02	5.98	5.92	-
58	<b>EATING AND DRINKING PLACES<sup>5</sup></b> .....	103.48	103.86	110.29	107.53	-	3.98	4.01	4.10	4.12	-
59	<b>MISCELLANEOUS RETAIL</b> .....	161.93	162.97	168.33	169.26	-	5.19	5.19	5.43	5.46	-
591	Drug stores and proprietary stores .....	141.98	143.56	151.26	146.72	-	4.93	4.93	5.18	5.20	-
594	Miscellaneous shopping goods stores .....	147.26	147.44	148.90	149.70	-	4.86	4.85	4.98	4.99	-
596	Nonstore retailers .....	189.95	190.52	207.17	208.08	-	5.67	5.62	6.24	6.23	-
598	Fuel and ice dealers .....	274.56	278.46	268.53	278.92	-	7.04	7.14	7.18	7.34	-
599	Retail stores, nec .....	170.30	172.20	180.18	180.28	-	5.24	5.25	5.51	5.53	-
-	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>6</sup></b> .....	232.77	236.02	249.09	251.95	253.06	6.43	6.52	6.90	6.96	7.01
60	<b>BANKING</b> .....	200.39	202.38	215.12	217.18	-	5.49	5.56	5.91	5.95	-
602	Commercial and stock savings banks .....	197.47	199.11	209.51	212.28	-	5.41	5.47	5.74	5.80	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	209.19	212.13	220.83	224.36	-	5.70	5.78	6.05	6.13	-
612	Savings and loan associations .....	192.77	195.12	200.07	203.19	-	5.34	5.39	5.62	5.65	-
614	Personal credit institutions .....	210.73	214.23	224.56	229.03	-	5.68	5.79	6.08	6.19	-
63	<b>INSURANCE CARRIERS</b> .....	269.31	273.02	286.81	287.93	-	7.22	7.30	7.71	7.74	-
631	Life insurance .....	284.24	286.11	289.01	290.94	-	7.60	7.65	7.79	7.80	-
632	Medical service and health insurance .....	253.46	260.06	271.93	273.39	-	6.67	6.79	7.31	7.31	-
633	Fire, marine, and casualty insurance .....	259.04	263.47	289.45	289.38	-	7.02	7.14	7.76	7.80	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982 <sup>P</sup>	Nov. 1982 <sup>P</sup>	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982 <sup>P</sup>	Nov. 1982 <sup>P</sup>
	<b>WHOLESALE TRADE-DURABLE GOODS—Continued</b>										
505	Metals and minerals, except petroleum .....	39.7	35.6	38.9	35.1	-	-	-	-	-	-
506	Electrical goods .....	39.2	39.1	38.9	39.1	-	-	-	-	-	-
507	Hardware, plumbing, and heating equipment .....	38.7	38.6	38.6	38.5	-	-	-	-	-	-
508	Machinery, equipment, and supplies .....	39.4	39.3	39.2	39.1	-	-	-	-	-	-
509	Miscellaneous durable goods .....	38.8	38.7	37.7	37.7	-	-	-	-	-	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> ..	38.2	38.2	37.9	38.0	-	-	-	-	-	-
511	Paper and paper products .....	37.0	37.1	37.1	37.3	-	-	-	-	-	-
512	Drugs, proprietaries, and sundries .....	36.9	37.1	38.2	38.5	-	-	-	-	-	-
513	Apparel, piece goods, and notions .....	37.5	36.9	36.5	37.3	-	-	-	-	-	-
514	Groceries and related products .....	38.6	38.6	38.1	38.1	-	-	-	-	-	-
516	Chemicals and allied products .....	38.6	38.9	38.6	38.5	-	-	-	-	-	-
517	Petroleum and petroleum products .....	39.5	39.6	40.4	39.4	-	-	-	-	-	-
518	Beer, wine, and distilled beverages .....	36.8	36.9	36.3	36.4	-	-	-	-	-	-
519	Miscellaneous nondurable goods .....	38.4	38.2	37.7	38.2	-	-	-	-	-	-
52-59	<b>RETAIL TRADE</b> .....	29.8	25.8	30.2	25.8	29.7	-	-	-	-	-
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	36.7	36.5	35.9	35.6	-	-	-	-	-	-
521	Lumber and other building materials .....	38.4	38.1	36.9	36.6	-	-	-	-	-	-
525	Hardware stores .....	33.9	33.8	33.9	33.7	-	-	-	-	-	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	28.9	28.9	29.5	29.3	-	-	-	-	-	-
531	Department stores .....	28.9	28.8	29.4	29.2	-	-	-	-	-	-
533	Variety stores .....	28.7	29.2	29.8	29.6	-	-	-	-	-	-
539	Misc. general merchandise stores .....	29.0	25.3	29.9	30.3	-	-	-	-	-	-
54	<b>FOOD STORES</b> .....	30.5	30.4	30.7	30.3	-	-	-	-	-	-
541	Grocery stores .....	30.7	30.7	30.9	30.4	-	-	-	-	-	-
546	Retail bakeries .....	28.7	28.5	29.0	28.5	-	-	-	-	-	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	37.4	37.5	37.3	37.4	-	-	-	-	-	-
551, 2	New and used car dealers .....	38.2	38.4	37.8	37.9	-	-	-	-	-	-
553	Auto and home supply stores .....	40.0	40.4	40.5	40.3	-	-	-	-	-	-
554	Gasoline service stations .....	35.4	35.3	35.2	35.5	-	-	-	-	-	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	28.4	28.3	27.9	27.9	-	-	-	-	-	-
561	Men's and boys' clothing and furnishings .....	31.2	30.8	30.6	30.8	-	-	-	-	-	-
562	Women's ready-to-wear stores .....	27.2	26.9	26.9	26.7	-	-	-	-	-	-
565	Family clothing stores .....	27.9	27.9	28.1	27.9	-	-	-	-	-	-
566	Shoe stores .....	28.3	28.5	27.7	27.9	-	-	-	-	-	-
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	34.6	34.6	34.4	34.4	-	-	-	-	-	-
571	Furniture and home furnishings stores .....	34.6	34.5	34.1	34.1	-	-	-	-	-	-
572	Household appliance stores .....	35.1	35.4	35.5	35.2	-	-	-	-	-	-
573	Radio, television, and music stores .....	34.4	34.4	34.5	34.6	-	-	-	-	-	-
58	<b>EATING AND DRINKING PLACES</b> .....	26.0	25.9	26.9	26.1	-	-	-	-	-	-
59	<b>MISCELLANEOUS RETAIL</b> .....	31.2	31.4	31.0	31.0	-	-	-	-	-	-
591	Drug stores and proprietary stores .....	28.8	29.2	29.2	28.6	-	-	-	-	-	-
594	Miscellaneous shopping goods stores .....	30.3	30.4	29.9	30.0	-	-	-	-	-	-
596	Nonstore retailers .....	33.5	33.9	33.2	33.4	-	-	-	-	-	-
598	Fuel and ice dealers .....	39.0	35.0	37.4	38.0	-	-	-	-	-	-
599	Retail stores, nec .....	32.5	32.8	32.7	32.6	-	-	-	-	-	-
-	<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	36.2	36.2	36.1	36.2	36.1	-	-	-	-	-
60	<b>BANKING</b> .....	36.5	36.4	36.4	36.5	-	-	-	-	-	-
602	Commercial and stock savings banks .....	36.5	36.4	36.5	36.6	-	-	-	-	-	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	36.7	36.7	36.5	36.6	-	-	-	-	-	-
612	Savings and loan associations .....	36.1	36.2	35.6	35.9	-	-	-	-	-	-
614	Personal credit institutions .....	37.1	37.0	37.0	37.0	-	-	-	-	-	-
63	<b>INSURANCE CARRIERS</b> .....	37.3	37.4	37.2	37.2	-	-	-	-	-	-
631	Life insurance .....	37.4	37.4	37.1	37.3	-	-	-	-	-	-
632	Medical service and health insurance .....	38.0	38.3	37.2	37.4	-	-	-	-	-	-
633	Fire, marine, and casualty insurance .....	36.9	36.9	37.3	37.1	-	-	-	-	-	-

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				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
-	<b>SERVICES</b> .....	\$213.85	\$216.78	\$228.57	\$229.83	\$229.78	\$6.58	\$6.67	\$6.99	\$7.05	\$7.07
	<b>HOTELS AND OTHER LODGING PLACES:</b>										
701	Hotels, motels, and tourist courts <sup>2</sup> .....	152.21	152.89	154.03	153.38	-	4.91	4.98	5.05	4.98	-
	<b>PERSONAL SERVICES:</b>										
721	Laundry, cleaning, and garment services .....	165.43	164.64	172.64	175.24	-	4.88	4.90	5.20	5.20	-
723	Beauty shops <sup>3</sup> .....	140.70	142.80	154.04	152.06	-	4.69	4.76	5.33	5.28	-
	<b>BUSINESS SERVICES</b> .....										
73	Advertising .....	215.49	219.07	231.46	232.82	-	6.61	6.72	7.10	7.12	-
731	Advertising .....	313.11	322.70	331.92	332.64	-	8.67	9.09	9.22	9.24	-
734	Services to buildings .....	148.23	152.01	157.45	157.79	-	5.49	5.63	5.81	5.78	-
737	Computer and data processing services .....	307.43	307.53	329.64	325.88	-	8.22	8.30	8.68	8.69	-
	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....										
75	Automotive repair shops .....	249.38	248.62	254.02	254.55	-	6.58	6.60	6.72	6.77	-
753	Automotive repair shops .....	276.75	276.51	281.25	283.53	-	7.06	7.09	7.23	7.27	-
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	301.86	302.64	312.09	310.46	-	7.76	7.80	8.17	8.17	-
	<b>MOTION PICTURES</b> .....										
78	Motion picture production and services .....	243.63	254.82	227.75	234.79	-	8.99	9.30	8.53	8.86	-
781	Motion picture production and services .....	482.79	489.34	475.97	471.61	-	12.54	12.81	12.46	12.61	-
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	186.03	191.14	188.63	184.84	-	6.16	6.35	6.33	6.33	-
	<b>HEALTH SERVICES</b> .....										
80	Offices of physicians .....	212.88	215.17	235.43	234.25	-	6.53	6.58	7.07	7.12	-
801	Offices of physicians .....	212.16	213.73	222.01	220.25	-	6.63	6.70	6.81	6.97	-
802	Offices of dentists .....	182.90	185.48	193.01	195.11	-	6.44	6.45	6.82	6.87	-
805	Nursing and personal care facilities .....	142.14	144.14	155.67	153.66	-	4.60	4.62	4.88	4.90	-
806	Hospitals .....	239.33	241.37	267.11	266.94	-	7.06	7.12	7.72	7.76	-
81	<b>LEGAL SERVICES</b> .....	281.47	290.34	299.78	303.90	-	8.23	8.44	8.74	8.85	-
	<b>MISCELLANEOUS SERVICES</b> .....										
89	Engineering and architectural services .....	367.10	374.52	399.38	402.74	-	9.61	9.83	10.32	10.38	-
891	Engineering and architectural services .....	404.15	412.51	438.06	443.19	-	10.31	10.55	11.09	11.22	-
893	Accounting, auditing, and bookkeeping .....	303.06	308.47	328.48	327.56	-	8.06	8.27	8.69	8.62	-

<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 non-supervisory 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.

- Data not available.

p = preliminary.

NOTE: Data from April 1981 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustment" in the Explanatory Notes of this publication.

**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				
		Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
-	<b>SERVICES</b> .....	32.5	32.5	32.7	32.6	32.5	-	-	-	-	-
701	<b>HOTELS AND OTHER LODGING PLACES:</b> Hotels, motels, and tourist courts <sup>5</sup> .....	31.0	30.7	30.5	30.8	-	-	-	-	-	
721	<b>PERSONAL SERVICES:</b> Laundry, cleaning, and garment services .....	33.9	33.6	33.2	33.7	-	-	-	-	-	
723	Beauty shops <sup>5</sup> .....	30.0	30.0	28.9	28.8	-	-	-	-	-	
73	<b>BUSINESS SERVICES</b> .....	32.6	32.6	32.6	32.7	-	-	-	-	-	
731	Advertising .....	35.3	35.5	36.0	36.0	-	-	-	-	-	
734	Services to buildings .....	27.0	27.0	27.1	27.3	-	-	-	-	-	
737	Computer and data processing services .....	37.4	37.1	38.0	37.5	-	-	-	-	-	
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	37.9	37.7	37.8	37.6	-	-	-	-	-	
753	Automotive repair shops .....	39.2	39.0	38.9	39.0	-	-	-	-	-	
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	38.9	38.8	38.2	38.0	-	-	-	-	-	
78	<b>MOTION PICTURES</b> .....	27.1	27.4	26.7	26.5	-	-	-	-	-	
781	Motion picture production and services .....	38.5	38.2	38.2	37.4	-	-	-	-	-	
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	30.2	30.1	29.8	29.2	-	-	-	-	-	
80	<b>HEALTH SERVICES</b> .....	32.6	32.7	33.3	32.9	-	-	-	-	-	
801	Offices of physicians .....	32.0	31.9	32.6	31.6	-	-	-	-	-	
802	Offices of dentists .....	28.4	28.4	28.3	28.4	-	-	-	-	-	
805	Nursing and personal care facilities .....	30.9	31.2	31.9	31.4	-	-	-	-	-	
806	Hospitals .....	33.9	33.9	34.6	34.4	-	-	-	-	-	
81	<b>LEGAL SERVICES</b> .....	34.2	34.4	34.3	34.3	-	-	-	-	-	
89	<b>MISCELLANEOUS SERVICES</b> .....	38.2	38.1	38.7	38.8	-	-	-	-	-	
891	Engineering and architectural services .....	39.2	39.1	39.5	39.5	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping .....	37.6	37.3	37.8	38.0	-	-	-	-	-	

# ESTABLISHMENT DATA HOURS AND EARNINGS

## C-3. Average hourly earnings excluding overtime of production workers on manufacturing payrolls by industry

Major industry group	Average hourly earnings excluding overtime <sup>1</sup>				
	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
<b>MANUFACTURING</b> .....	\$7.89	\$7.94	\$8.33	\$8.31	\$8.36
<b>DURABLE GOODS</b> .....	8.44	8.50	8.91	8.90	8.92
Lumber and wood products .....	6.85	6.96	7.45	7.38	-
Furniture and fixtures .....	5.91	5.93	6.27	6.29	-
Stone, clay, and glass products .....	8.12	8.17	8.63	8.63	-
Primary metal industries .....	10.62	10.77	11.23	11.16	-
Fabricated metal products .....	8.11	8.18	8.68	8.64	-
Machinery, except electrical .....	8.70	8.76	9.18	9.14	-
Electric and electronic equipment .....	7.59	7.62	8.12	8.16	-
Transportation equipment .....	10.36	10.39	10.88	10.94	-
Instruments and related products .....	7.40	7.48	8.27	8.32	-
Miscellaneous manufacturing industries .....	5.89	5.94	6.34	6.36	-
<b>NONDURABLE GOODS</b> .....	7.07	7.12	7.56	7.54	7.62
Food and kindred products .....	7.17	7.27	7.51	7.50	-
Tobacco manufactures .....	8.46	8.79	9.35	9.31	-
Textile mill products .....	5.52	5.54	5.69	5.70	-
Apparel and other textile products .....	4.96	4.96	5.13	5.12	-
Paper and allied products .....	8.38	8.47	9.12	9.07	-
Printing and publishing .....	8.11	8.14	8.61	8.61	-
Chemicals and allied products .....	9.02	9.08	9.83	9.91	-
Petroleum and coal products .....	10.96	11.06	12.02	12.01	-
Rubber and misc. plastics products .....	7.03	7.08	7.50	7.48	-
Leather and leather products .....	5.00	5.02	5.32	5.30	-

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

p=preliminary.

## C-4. Gross average weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry division, in current and constant (1977) dollars

Industry	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
<b>TOTAL PRIVATE:</b>					
Current dollars .....	\$261.18	\$262.20	\$270.05	\$270.31	\$269.68
Constant (1977) dollars .....	169.49	165.71	167.42	167.06	-
<b>MINING:</b>					
Current dollars .....	456.13	461.32	462.58	460.32	\$456.09
Constant (1977) dollars .....	256.00	258.59	286.78	284.50	-
<b>CONSTRUCTION:</b>					
Current dollars .....	419.62	414.78	430.99	439.33	\$423.18
Constant (1977) dollars .....	272.30	268.47	267.20	271.53	-
<b>MANUFACTURING:</b>					
Current dollars .....	323.95	325.54	334.15	333.84	\$337.50
Constant (1977) dollars .....	210.22	210.71	207.16	206.33	-
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>					
Current dollars .....	388.65	393.96	405.85	405.19	\$406.07
Constant (1977) dollars .....	252.21	254.99	251.61	250.43	-
<b>WHOLESALE AND RETAIL TRADE:</b>					
Current dollars .....	192.32	192.68	200.95	200.97	\$200.66
Constant (1977) dollars .....	124.80	124.71	124.58	124.21	-
<b>FINANCE, INSURANCE, AND REAL ESTATE:</b>					
Current dollars .....	232.77	236.02	249.09	251.95	\$253.06
Constant (1977) dollars .....	151.05	152.76	154.43	155.72	-
<b>SERVICES:</b>					
Current dollars .....	213.85	216.78	228.57	229.83	\$229.78
Constant (1977) dollars .....	138.77	140.31	141.70	142.05	-

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

p=preliminary.

## ESTABLISHMENT DATA HOURS AND EARNINGS

### C-5. 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

(1977=100)

Industry division and group	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
	Hours				
<b>TOTAL PRIVATE</b> .....	109.0	108.3	105.0	104.0	103.4
<b>GOODS-PRODUCING</b> .....	102.6	100.4	91.5	90.0	89.5
<b>MINING</b> .....	146.2	146.5	120.7	118.3	115.4
<b>CONSTRUCTION</b> .....	116.1	110.8	107.0	106.9	101.3
<b>MANUFACTURING</b> .....	97.9	96.2	87.1	85.4	84.8
<b>DURABLE GOODS</b> .....	97.6	95.7	83.2	81.2	80.8
Lumber and wood products.....	84.3	79.3	82.9	80.6	78.7
Furniture and fixtures.....	98.6	95.6	82.3	88.4	88.4
Stone, clay, and glass products.....	91.0	89.9	81.9	80.4	78.5
Primary metal industries.....	87.8	85.6	64.2	60.2	59.8
Fabricated metal products.....	95.7	93.8	81.4	79.9	79.5
Machinery, except electrical.....	109.7	109.5	86.6	82.7	81.7
Electric and electronic equipment.....	105.9	103.2	93.9	93.5	93.8
Transportation equipment.....	90.3	88.0	77.5	76.7	75.5
Instruments and related products.....	113.1	113.5	103.8	100.8	101.6
Miscellaneous manufacturing industries.....	95.6	95.2	84.7	84.6	83.7
<b>NONDURABLE GOODS</b> .....	98.4	97.0	93.0	91.6	90.8
Food and kindred products.....	102.0	99.6	104.6	101.6	97.5
Tobacco manufactures.....	108.9	103.9	99.4	98.1	89.2
Textile mill products.....	87.0	85.6	75.9	76.7	76.5
Apparel and other textile products.....	95.6	94.2	85.8	85.8	84.5
Paper and allied products.....	96.5	97.4	92.8	90.8	91.8
Printing and publishing.....	106.8	107.6	105.7	105.4	106.0
Chemicals and allied products.....	100.6	100.1	95.0	92.9	94.4
Petroleum and coal products.....	103.4	102.1	103.7	98.6	98.1
Rubber and misc. plastics products.....	100.4	97.9	93.3	90.8	90.2
Leather and leather products.....	91.5	89.6	77.2	75.4	76.3
<b>SERVICE-PRODUCING</b> .....	112.5	112.7	112.5	111.8	111.6
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	105.5	105.3	101.7	100.8	100.5
<b>WHOLESALE AND RETAIL TRADE</b> .....	106.8	107.5	106.2	105.1	105.4
<b>WHOLESALE TRADE</b> .....	112.8	112.6	106.7	108.8	108.5
<b>RETAIL TRADE</b> .....	104.5	105.5	105.2	103.7	104.2
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	117.4	117.1	117.0	116.7	116.4
<b>SERVICES</b> .....	120.6	120.3	122.7	122.3	121.7

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

p-preliminary.



# ESTABLISHMENT DATA HOURS AND EARNINGS

## C-5. 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

(1977=100)

Industry division and group	Oct. 1981	Nov. 1981	Sept. 1982	Oct. 1982P	Nov. 1982P
	Payrolls				
TOTAL PRIVATE .....	154.2	154.1	155.4	154.4	153.7
GOODS-PRODUCING .....	148.0	145.4	139.1	136.9	134.6
MINING .....	215.9	219.3	191.9	166.9	182.7
CONSTRUCTION .....	159.9	152.9	154.2	155.8	146.2
MANUFACTURING .....	140.8	139.0	131.9	128.8	128.7
DURABLE GOODS .....	140.6	138.5	125.7	122.4	122.2
Lumber and wood products .....	117.5	111.5	125.2	120.4	118.7
Furniture and fixtures .....	137.5	133.4	130.4	130.9	131.5
Stone, clay, and glass products .....	133.2	130.6	127.3	124.7	122.0
Primary metal industries .....	130.0	128.3	100.0	93.0	93.1
Fabricated metal products .....	135.9	133.8	122.7	119.7	120.6
Machinery, except electrical .....	158.5	158.9	130.0	123.5	122.3
Electric and electronic equipment .....	153.3	149.9	144.9	144.7	146.0
Transportation equipment .....	133.1	129.6	119.6	118.9	118.2
Instruments and related products .....	162.4	164.8	165.6	161.6	164.0
Miscellaneous manufacturing industries .....	132.6	133.4	126.1	126.3	125.6
NONDURABLE GOODS .....	141.1	140.0	142.9	140.0	140.1
Food and kindred products .....	142.6	141.1	153.9	148.7	145.1
Tobacco manufactures .....	170.4	169.6	171.7	169.3	164.2
Textile mill products .....	124.8	123.1	111.5	113.2	113.7
Apparel and other textile products .....	133.1	131.0	123.2	123.1	122.1
Paper and allied products .....	145.7	145.2	149.9	145.0	147.6
Printing and publishing .....	146.6	147.9	153.7	153.0	154.5
Chemicals and allied products .....	146.6	146.5	150.6	147.9	150.4
Petroleum and coal products .....	151.5	151.0	167.1	158.1	159.2
Rubber and misc. plastics products .....	141.6	138.5	139.9	135.4	135.6
Leather and leather products .....	129.2	126.9	115.8	112.7	114.1
SERVICE-PRODUCING .....	158.5	160.3	166.9	166.8	167.1
TRANSPORTATION AND PUBLIC UTILITIES .....	150.0	151.4	152.1	150.9	151.3
WHOLESALE AND RETAIL TRADE .....	150.0	151.8	155.5	154.7	155.6
WHOLESALE TRADE .....	161.8	162.8	164.2	164.8	164.5
RETAIL TRADE .....	143.6	145.8	150.8	149.3	150.6
FINANCE, INSURANCE, AND REAL ESTATE .....	166.2	168.1	177.6	178.7	179.6
SERVICES .....	170.5	172.5	184.4	185.3	185.0

## ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

**C-6. Average weekly hours of production or nonsupervisory workers<sup>1</sup> on private<sup>2</sup> nonagricultural payrolls  
by industry division and major manufacturing group, seasonally adjusted**

Industry	1981				1982								
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. p	Nov. P
<b>TOTAL PRIVATE</b> .....	35.1	35.0	34.4	35.0	34.9	34.9	35.0	34.9	34.9	34.8	34.8	34.7	34.6
<b>MINING</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>CONSTRUCTION</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>MANUFACTURING</b> .....	39.3	39.1	37.6	39.4	39.0	39.0	39.1	39.2	39.2	39.0	38.8	38.8	38.9
<i>Overtime hours</i> .....	2.5	2.4	2.3	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.3	2.3	2.3
<b>DURABLE GOODS</b> .....	39.7	39.5	38.2	39.8	39.5	39.5	39.6	39.7	39.7	39.4	38.9	39.0	39.1
<i>Overtime hours</i> .....	2.4	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.1	2.0	2.1
Lumber and wood products .....	37.7	37.7	35.0	37.9	37.6	37.6	38.5	38.7	38.6	38.2	38.5	38.1	38.6
Furniture and fixtures .....	37.6	37.9	33.6	37.7	37.3	37.4	37.5	37.8	37.6	37.9	37.4	37.5	37.7
Stone, clay, and glass products .....	40.1	39.7	38.6	40.1	40.0	40.0	40.2	40.4	40.6	40.3	40.2	40.2	40.2
Primary metal industries .....	39.6	39.2	38.3	35.4	38.8	38.5	38.5	38.9	38.9	38.8	37.8	38.0	38.4
Fabricated metal products .....	39.7	39.5	38.1	39.7	39.5	39.4	39.5	39.4	39.5	39.2	38.8	38.9	38.9
Machinery, except electrical .....	40.7	40.4	39.3	40.7	40.2	40.1	39.8	39.6	39.8	39.5	39.0	39.3	39.0
Electric and electronic equipment .....	39.4	39.5	38.3	35.8	39.4	39.3	39.4	39.5	39.8	39.3	38.8	39.0	39.1
Transportation equipment .....	40.4	39.7	39.0	40.5	40.4	41.1	41.1	41.6	41.0	40.5	39.8	40.0	40.5
Instruments and related products .....	40.2	39.9	39.0	39.9	39.9	39.9	40.2	40.2	40.1	40.1	39.8	39.3	39.3
Miscellaneous manufacturing and .....	39.0	38.5	37.3	38.6	38.6	38.5	38.7	38.6	38.7	38.6	38.3	38.5	38.6
<b>NONDURABLE GOODS</b> .....	38.7	38.6	36.8	38.9	38.5	38.4	38.5	38.6	38.6	38.5	38.6	38.5	38.5
<i>Overtime hours</i> .....	2.7	2.6	2.5	2.6	2.5	2.6	2.5	2.5	2.6	2.6	2.6	2.6	2.6
Food and kindred products .....	39.5	39.8	39.1	40.2	39.5	39.4	39.4	39.5	39.5	39.1	39.4	39.7	39.4
Tobacco manufactures .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Textile mill products .....	38.7	37.8	32.3	38.3	37.6	37.7	37.9	37.8	37.7	38.2	38.1	38.3	38.6
Apparel and other textile products .....	35.5	35.1	31.4	35.5	35.0	34.7	34.8	35.1	35.2	35.0	35.2	35.0	34.9
Paper and allied products .....	42.0	41.8	41.3	42.3	41.8	42.1	41.8	42.0	41.9	41.7	41.5	41.7	41.7
Printing and publishing .....	37.1	37.1	36.9	37.4	37.1	37.1	36.8	37.1	37.0	36.8	37.0	36.9	37.0
Chemicals and allied products .....	41.2	41.3	41.0	41.2	40.7	40.7	41.0	41.0	40.9	40.9	41.2	40.8	40.8
Petroleum and coal products .....	42.5	42.7	44.3	43.5	43.5	44.0	44.1	44.1	43.3	43.9	44.0	42.7	43.2
Rubber and misc. plastics products .....	39.6	39.4	37.9	40.0	39.6	39.8	39.9	40.1	40.2	39.7	39.6	39.1	39.3
Leather and leather products .....	36.5	36.1	34.1	35.6	35.8	35.6	35.6	35.7	36.1	36.0	35.7	35.0	35.6
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>WHOLESALE AND RETAIL TRADE</b> .....	32.1	32.0	31.7	32.0	31.9	31.8	32.0	31.9	31.9	31.9	32.1	31.9	31.8
<b>WHOLESALE TRADE</b> .....	38.5	38.4	38.1	38.5	38.4	38.3	38.5	38.6	38.5	38.5	38.4	38.3	38.4
<b>RETAIL TRADE</b> .....	30.0	29.9	29.7	29.9	29.8	29.8	30.0	29.8	29.9	29.9	30.1	29.9	29.8
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>SERVICES</b> .....	32.6	32.6	32.5	32.6	32.6	32.7	32.7	32.7	32.6	32.6	32.8	32.7	32.6

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

p preliminary.

<sup>2</sup> This series is not published seasonally adjusted since the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

# ESTABLISHMENT DATA SEASONALLY ADJUSTED

## C-7. Indexes of aggregate weekly hours of production or nonsupervisory workers' on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

(1977=100)

Industry division and group	1981		1982										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. <sup>p</sup>	Nov. <sup>p</sup>
<b>TOTAL PRIVATE</b> .....	107.3	106.3	104.3	106.2	105.6	105.2	105.7	104.9	104.8	104.1	103.9	102.9	102.5
<b>GOODS-PRODUCING</b> .....	98.4	96.3	91.4	95.6	93.9	93.0	93.3	91.9	91.4	90.0	88.7	87.3	86.7
<b>MINING</b> .....	145.0	145.5	141.6	143.7	142.6	138.4	133.6	128.2	125.1	121.4	118.6	115.5	114.1
<b>CONSTRUCTION</b> .....	106.9	104.2	96.8	102.9	101.1	100.9	104.5	101.0	101.9	100.5	98.3	97.4	97.6
<b>MANUFACTURING</b> .....	54.6	92.5	88.0	91.9	90.3	89.3	89.2	88.4	87.8	86.5	85.5	83.9	83.3
<b>DURABLE GOODS</b> .....	54.0	91.4	87.3	90.6	89.1	87.8	87.8	86.7	86.1	84.1	82.2	80.0	79.3
Lumber and wood products .....	79.2	77.2	70.9	77.5	76.1	77.6	79.5	79.8	79.4	78.7	79.5	78.2	79.7
Furniture and fixtures .....	93.1	92.6	80.9	90.0	88.3	87.8	88.1	88.5	87.3	89.0	86.8	85.8	85.3
Stone, clay, and glass products .....	86.6	83.9	79.3	82.4	81.1	80.2	81.1	80.4	80.8	79.7	79.1	77.9	76.9
Primary metal industries .....	85.4	81.9	78.5	79.7	77.1	73.6	71.0	70.1	68.4	67.0	63.4	60.6	59.6
Fabricated metal products .....	91.6	89.3	85.1	88.1	87.0	85.8	85.5	84.0	83.9	82.0	80.4	78.5	77.9
Machinery, except electrical .....	108.7	106.2	101.6	104.4	101.5	99.2	98.0	94.4	92.1	88.9	86.5	83.1	80.8
Electric and electronic equipment .....	101.5	99.6	97.2	100.4	98.6	97.8	96.0	97.7	97.5	95.8	93.5	92.4	92.3
Transportation equipment .....	85.4	80.7	78.3	81.8	81.7	81.4	82.3	82.6	83.1	79.4	77.2	74.4	73.5
Instruments and related products .....	111.7	110.6	107.3	105.3	108.5	107.4	108.5	107.2	106.7	105.6	104.0	100.7	99.9
Miscellaneous manufacturing ind .....	91.0	89.3	84.8	86.8	86.2	84.2	84.4	83.6	84.1	82.4	81.4	80.7	80.0
<b>NONDURABLE GOODS</b> .....	55.4	94.1	89.0	93.8	92.0	91.4	91.4	91.0	90.3	90.0	90.3	89.8	89.3
Food and kindred products .....	57.3	97.7	95.6	98.9	96.8	95.5	96.2	95.4	96.1	93.9	94.7	96.7	95.4
Tobacco manufactures .....	54.6	92.1	93.6	94.6	93.6	89.6	88.7	91.6	89.8	90.7	88.1	85.2	79.9
Textile mill products .....	83.9	80.7	67.7	75.9	76.5	78.0	77.0	74.8	74.7	75.2	75.2	75.6	75.1
Apparel and other textile products .....	52.7	90.5	79.6	90.0	87.7	85.3	85.3	85.8	83.2	84.3	84.6	84.0	83.1
Paper and allied products .....	96.6	95.2	93.7	95.4	93.9	94.0	92.8	92.5	92.2	91.4	91.9	90.7	91.0
Printing and publishing .....	106.5	106.5	105.8	107.2	106.7	106.2	105.5	105.9	105.3	104.9	105.5	105.2	105.0
Chemicals and allied products .....	99.5	98.9	97.6	97.6	96.4	95.3	95.7	94.9	94.0	94.3	94.9	93.2	93.8
Petroleum and coal products .....	100.0	99.7	98.7	96.1	96.1	96.5	96.7	95.9	94.2	95.5	98.8	95.2	96.3
Rubber and misc. plastics products .....	96.3	94.3	90.0	94.0	92.3	94.0	94.6	94.9	95.0	93.6	92.5	89.5	88.6
Leather and leather products .....	88.3	85.1	79.1	79.5	79.5	79.5	78.1	78.4	77.0	78.1	76.6	73.8	74.6
<b>SERVICE-PRODUCING</b> .....	112.2	111.8	111.4	112.1	112.0	111.9	112.5	112.1	112.2	111.8	112.3	111.6	111.2
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	104.4	103.6	102.8	103.7	103.3	102.8	102.6	102.2	101.5	101.2	100.7	99.9	99.7
<b>WHOLESALE AND RETAIL TRADE</b> .....	106.3	105.4	105.2	106.3	105.9	105.5	106.5	105.8	106.1	105.5	105.6	104.7	104.1
<b>WHOLESALE TRADE</b> .....	111.8	111.0	109.7	110.7	110.2	109.5	110.3	110.0	109.6	109.0	108.6	107.8	107.6
<b>RETAIL TRADE</b> .....	104.3	103.3	103.4	104.6	104.2	103.9	105.1	104.2	104.7	104.2	104.5	103.5	102.8
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	117.4	117.4	116.9	116.8	117.1	117.0	117.9	117.4	117.4	117.2	117.4	117.0	116.7
<b>SERVICES</b> .....	120.6	120.8	120.3	120.9	121.1	121.5	121.8	121.9	121.8	121.8	122.9	122.4	122.2

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

p=preliminary.

## ESTABLISHMENT DATA SEASONALLY ADJUSTED

**C-8. Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, seasonally adjusted**

Industry	1981			1982									
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. <sup>p</sup>	Nov. <sup>p</sup>
<b>Hourly Earnings Index<sup>2</sup> (1977=100)</b>													
TOTAL PRIVATE (In current dollars).....	143.0	143.5	144.9	145.0	145.4	146.3	147.7	148.1	148.9	149.9	150.1	150.8	151.0
MINING <sup>3</sup> .....	153.4	153.4	156.2	156.0	156.0	156.5	156.8	159.6	161.3	161.5	163.2	162.1	162.8
CONSTRUCTION.....	135.7	136.6	139.9	137.9	138.1	138.7	139.9	139.7	140.6	140.7	140.4	142.1	140.5
MANUFACTURING.....	146.4	146.9	148.9	145.1	149.9	150.8	151.8	152.5	153.3	154.2	154.7	154.6	155.3
TRANSPORTATION AND PUBLIC UTILITIES.....	143.5	144.3	145.5	146.0	146.3	146.9	148.2	149.1	148.9	150.3	149.9	150.9	151.2
WHOLESALE AND RETAIL TRADE.....	141.3	141.7	142.1	142.5	142.8	143.7	145.1	145.2	145.7	146.5	146.8	147.6	147.9
FINANCE, INSURANCE, AND REAL ESTATE.....	142.6	142.0	143.1	143.3	143.8	144.9	148.0	147.2	148.6	150.6	151.3	152.6	152.8
SERVICES.....	142.2	142.6	143.4	143.7	143.9	145.1	146.5	147.3	148.7	149.7	149.7	150.9	150.3
TOTAL PRIVATE (In 1977 dollars) <sup>4</sup> .....	92.3	92.3	92.9	92.8	93.3	93.7	93.7	93.1	93.0	93.2	93.2	93.1	-
<b>Average hourly earnings</b>													
TOTAL PRIVATE.....	\$7.45	\$7.46	\$7.52	\$7.53	\$7.54	\$7.59	\$7.65	\$7.67	\$7.71	\$7.74	\$7.72	\$7.76	\$7.78
MINING.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
CONSTRUCTION.....	\$11.14	\$11.22	\$11.52	\$11.34	\$11.39	\$11.43	\$11.54	\$11.51	\$11.56	\$11.58	\$11.56	\$11.79	\$11.64
MANUFACTURING.....	8.20	8.20	8.38	8.34	8.37	8.44	8.48	8.52	8.56	8.57	8.56	8.56	8.62
TRANSPORTATION AND PUBLIC UTILITIES.....	9.57	10.02	10.09	10.13	10.15	10.18	10.24	10.30	10.30	10.40	10.37	10.42	10.44
WHOLESALE AND RETAIL TRADE.....	6.06	6.08	6.09	6.10	6.12	6.16	6.20	6.22	6.23	6.26	6.25	6.32	6.33
FINANCE, INSURANCE, AND REAL ESTATE.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
SERVICES.....	\$6.63	\$6.65	\$6.71	\$6.72	\$6.72	\$6.80	\$6.85	\$6.90	\$6.96	\$7.00	\$7.01	\$7.04	\$7.03
<b>Average weekly earnings</b>													
TOTAL PRIVATE:													
Current dollars.....	261.50	261.10	258.69	263.55	263.15	264.89	267.75	267.68	269.08	269.35	268.66	265.27	269.19
1977 dollars <sup>4</sup> .....	168.82	167.91	165.93	168.62	168.90	169.65	169.89	168.14	167.97	167.61	166.87	166.32	

<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 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.

<sup>4</sup> The deflator for these series is derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

<sup>5</sup> See footnote 2, table C-6.

p=preliminary.

**C-9. Hours of wage and salary workers<sup>1</sup> in nonagricultural establishments by industry division**

Industry division	Billions of hours (Annual rate) <sup>2</sup>			Percent change		
	September 1982	October P1982	November P1982	Nov. 1981 to Nov. 1982	Sept. 1982 to Oct. 1982	Oct. 1982 to Nov. 1982
TOTAL.....	165,598	164,463	163,277	-3.3	-0.7	-0.7
PRIVATE SECTOR.....	134,870	133,801	133,175	-3.9	-0.8	-0.5
MINING.....	2,344	2,312	2,272	-18.1	-1.4	-1.7
CONSTRUCTION.....	7,296	7,313	7,325	-7.7	0.2	0.2
MANUFACTURING.....	37,824	37,358	37,037	-9.3	-1.2	-0.9
DURABLE GOODS.....	22,304	21,866	21,644	-12.1	-2.0	-1.0
NONDURABLE GOODS.....	15,520	15,491	15,392	-5.1	-0.2	-0.6
TRANSPORTATION AND PUBLIC UTILITIES.....	10,157	10,102	10,034	-4.3	-0.5	-0.7
WHOLESALE AND RETAIL TRADE.....	34,453	34,124	34,889	-1.6	-1.0	-0.7
FINANCE, INSURANCE, AND REAL ESTATE.....	10,134	10,082	10,091	0.5	-0.5	0.1
SERVICES.....	32,663	32,511	32,527	1.6	-0.5	0.0
GOVERNMENT.....	30,728	30,662	30,102	-0.4	-0.2	-1.8

<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-10. Indexes of output and compensation per hour, unit costs, and prices,  
private business sector, seasonally adjusted**

[1967 = 100]

Item	Annual average		Quarterly indexes										
	1980	1981	1980				1981				1982		
			I	II	III	IV	I	II	III	IV	I	II	III
<b>BUSINESS SECTOR:</b>													
Output per hour of all persons . . . .	98.9	100.7	99.3	98.2	98.9	99.3	100.7	100.7	101.0	100.2	100.0	100.3	r101.4
Output . . . . .	106.2	108.9	107.9	104.7	105.3	107.0	109.1	109.1	109.6	107.8	106.3	106.4	r106.9
Hours . . . . .	107.4	108.2	108.7	106.6	106.5	107.7	108.3	108.3	108.5	107.5	106.3	106.1	r105.4
Compensation per hour . . . . .	131.4	144.1	126.7	130.0	133.1	136.1	140.0	142.5	145.6	148.2	150.9	153.4	155.7
Real compensation per hour . . . . .	96.7	96.0	97.0	96.4	96.9	96.2	96.2	96.4	95.7	95.6	96.5	97.1	96.8
Unit labor costs . . . . .	132.9	143.1	127.6	132.3	134.7	137.0	139.0	141.5	144.2	147.9	150.9	152.9	r153.6
Unit nonlabor payments . . . . .	119.3	135.2	116.0	116.2	120.6	124.6	131.8	133.4	137.4	138.3	136.4	137.0	r140.1
Implicit price deflator . . . . .	128.3	140.4	123.7	126.9	129.9	132.8	136.5	138.8	141.9	144.6	146.0	147.5	r149.0
<b>NONFARM BUSINESS SECTOR:</b>													
Output per hour of all persons . . . .	98.5	99.9	98.7	97.6	98.4	99.2	100.4	100.0	100.0	99.1	99.2	99.4	r100.4
Output . . . . .	106.3	108.6	107.9	104.6	105.3	107.3	109.2	109.0	109.1	107.1	106.0	106.1	r106.4
Hours . . . . .	108.0	108.7	109.3	107.2	107.0	108.2	108.8	109.0	109.1	108.1	106.8	106.7	r106.0
Compensation per hour . . . . .	130.9	143.6	126.2	129.3	132.6	135.7	139.5	142.0	145.1	147.7	150.4	152.7	155.1
Real compensation per hour . . . . .	96.3	95.7	96.6	96.0	96.5	95.9	96.0	96.0	95.4	95.3	96.3	96.6	96.4
Unit labor costs . . . . .	133.0	143.8	127.8	132.5	134.7	136.8	139.0	141.9	145.1	149.0	151.6	153.5	r154.5
Unit nonlabor payments . . . . .	119.1	134.8	115.2	116.7	120.3	124.4	131.5	132.8	136.7	138.4	136.7	137.2	r140.3
Implicit price deflator . . . . .	128.3	140.8	123.6	127.2	129.9	132.7	136.5	138.9	142.3	145.5	146.6	148.1	r149.8
<b>MANUFACTURING:</b>													
Output per hour of all persons . . . .	101.7	104.5	102.6	100.4	100.3	103.6	105.2	105.0	105.0	102.8	102.1	102.3	r104.2
Output . . . . .	103.6	105.9	107.8	101.6	99.9	105.0	106.7	107.5	107.4	102.0	98.2	97.0	r96.6
Hours . . . . .	101.8	101.3	105.1	101.1	99.6	101.3	101.5	102.4	102.3	99.2	96.2	94.8	r92.8
Compensation per hour . . . . .	132.8	146.4	127.1	130.9	135.2	138.4	142.6	144.9	147.3	150.7	154.7	157.6	r160.0
Real compensation per hour . . . . .	97.7	97.5	97.3	97.1	98.5	97.8	98.0	97.9	96.8	97.2	99.0	99.7	r99.4
Unit labor costs . . . . .	130.6	140.0	123.9	130.3	134.9	133.6	135.5	138.0	140.3	146.6	151.5	154.0	r153.6
<b>DURABLE GOODS</b>													
Output per hour of all persons . . . .	100.3	103.4	101.2	99.2	98.3	102.2	104.2	104.0	103.7	101.5	100.3	100.5	r102.3
Output . . . . .	103.5	106.1	108.9	101.4	98.8	104.9	107.0	108.2	107.8	101.6	96.8	95.2	r94.2
Hours . . . . .	103.2	102.6	107.6	102.2	100.4	102.7	102.7	104.0	103.9	100.0	96.5	94.7	r92.1
Compensation per hour . . . . .	132.6	146.5	126.6	130.4	135.0	138.5	142.7	144.7	147.2	151.0	154.8	157.7	r160.5
Real compensation per hour . . . . .	97.5	97.6	96.9	96.8	98.3	97.9	98.2	97.9	96.7	97.4	99.1	99.8	r99.7
Unit labor costs . . . . .	132.2	141.6	125.1	131.4	137.3	135.6	137.0	139.2	142.0	148.7	154.3	156.9	r156.9
<b>NONDURABLE GOODS</b>													
Output per hour of all persons . . . .	104.0	106.2	104.7	102.3	103.2	105.8	106.7	106.5	107.0	104.6	104.9	105.1	r106.8
Output . . . . .	103.7	105.6	106.2	101.8	101.5	105.1	106.4	106.5	106.9	102.6	100.4	99.6	r100.2
Hours . . . . .	99.7	99.4	101.5	99.5	98.4	99.3	99.7	99.9	99.8	98.1	95.7	94.8	r93.8
Compensation per hour . . . . .	132.8	145.6	127.2	131.3	135.4	137.6	141.8	144.4	146.7	149.6	154.3	157.5	159.4
Real compensation per hour . . . . .	97.7	97.0	97.3	97.4	98.6	97.2	97.5	97.7	96.5	96.5	98.8	99.7	r99.1
Unit labor costs . . . . .	127.7	137.1	121.5	128.4	131.2	130.1	132.9	135.6	137.1	143.1	147.2	150.0	r149.2
<b>NONFINANCIAL CORPORATIONS:</b>													
Output per all-employee hour . . . .	r100.3	r102.0	r100.2	r99.3	r100.6	r101.1	r102.3	r102.2	r102.2	r101.6	r101.6	r102.3	p103.5
Output . . . . .	108.1	110.7	109.8	106.5	107.1	109.0	111.0	111.1	111.5	109.4	107.9	107.8	p108.0
Hours . . . . .	r107.8	r108.5	r109.6	r107.2	r106.5	r107.8	r108.5	r108.8	r109.1	r107.7	r106.2	r105.3	p104.3
Compensation per hour . . . . .	r130.9	r143.5	r126.1	r129.3	r132.6	r135.6	r139.6	r141.9	r144.8	r147.7	r150.7	r153.0	p155.2
Real compensation per hour . . . . .	r96.2	r95.6	r96.5	r95.9	r96.6	r95.8	r96.0	r96.0	r95.2	r95.3	r96.5	r96.8	p96.4
Total unit costs . . . . .	131.0	143.4	125.0	130.4	132.9	135.8	138.3	141.7	144.7	149.1	151.8	153.8	p154.8
Unit labor costs . . . . .	130.5	140.6	125.8	130.2	131.9	134.1	136.5	138.9	141.7	145.4	148.3	149.5	p150.0
Unit nonlabor costs . . . . .	132.5	151.4	122.7	131.0	135.7	140.7	143.4	149.6	153.1	159.6	161.8	166.0	p168.5
Unit profits . . . . .	87.9	101.6	91.1	81.9	87.8	90.5	104.7	98.8	105.2	97.6	86.1	82.3	p88.7
Implicit price deflator . . . . .	126.1	138.6	121.1	124.8	127.7	130.6	134.5	136.8	140.2	143.2	144.3	145.6	p147.2

p=preliminary.  
r=revised.

**PRODUCTIVITY  
SEASONALLY ADJUSTED**

**C-11. 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					
	1981 I	1981 II	1981 III	1981 IV	1982 I	1982 II	1980 II	1980 III	1980 IV	1981 I	1981 II	1981 III
	to 1981 II	to 1981 III	to 1981 IV	to 1982 I	to 1982 II	to 1982 III	to 1981 II	to 1981 III	to 1981 IV	to 1982 I	to 1982 II	to 1982 III
<b>BUSINESS SECTOR:</b>												
Output per hour of all persons .....	0.0	1.1	-2.9	-1.0	1.4	r4.2	2.5	2.2	0.9	-0.7	-0.4	r0.4
Output .....	-0.1	1.9	-6.4	-5.5	0.6	r1.7	4.1	4.1	0.7	-2.6	-2.4	-2.5
Hours .....	-0.1	0.8	-3.6	-4.5	-0.8	r-2.4	1.6	1.9	-0.2	-1.9	r-2.1	r-2.8
Compensation per hour .....	7.5	9.0	7.4	7.3	6.9	r6.1	9.7	9.4	8.9	7.8	7.6	6.9
Real compensation per hour .....	0.5	-2.6	-0.4	3.9	2.2	r-1.4	-0.1	-1.3	-0.6	0.3	0.8	1.1
Unit labor costs .....	7.5	7.8	10.6	8.4	5.5	r1.8	6.9	7.1	7.9	8.6	8.1	r6.5
Unit nonlabor payments .....	4.9	12.5	2.9	-5.4	1.7	r9.3	14.8	13.9	11.0	3.5	2.7	r2.0
Implicit price deflator .....	6.6	9.3	8.0	3.8	4.3	r4.1	9.4	9.2	8.9	6.9	6.3	r5.0
<b>NONFARM BUSINESS SECTOR:</b>												
Output per hour of all persons .....	-1.3	-0.3	-3.5	0.6	0.8	r4.0	2.5	1.6	-0.1	-1.1	-0.6	r0.4
Output .....	-0.8	0.3	-7.1	-4.2	0.6	r1.2	4.2	3.6	-0.2	-3.0	-2.6	r-2.4
Hours .....	0.5	0.6	-3.7	-4.7	-0.1	r-2.7	1.6	2.0	-0.1	-1.9	-2.0	r-2.8
Compensation per hour .....	7.1	9.0	7.3	7.7	6.1	6.6	9.8	9.4	8.8	7.8	7.5	6.9
Real compensation per hour .....	0.1	-2.6	-0.5	4.3	1.4	-0.9	0.0	-1.2	-0.6	0.3	0.6	1.1
Unit labor costs .....	8.6	9.3	11.2	7.1	5.2	r2.6	7.1	7.7	8.9	9.0	8.2	r6.5
Unit nonlabor payments .....	4.0	12.1	5.1	-4.6	1.3	r9.5	13.8	13.6	11.2	4.0	3.3	r2.7
Implicit price deflator .....	7.1	10.2	9.2	3.3	4.0	r4.7	9.2	9.6	9.6	7.4	6.6	r5.3
<b>MANUFACTURING:</b>												
Output per hour of all persons .....	-0.7	-0.1	-8.2	-2.4	0.8	r7.3	4.5	4.7	-0.8	-2.9	-2.5	-0.8
Output .....	2.8	-0.4	-18.7	-13.8	-5.1	r1.5	5.8	7.5	-2.9	-8.0	-9.8	r-10.0
Hours .....	3.6	-0.3	-11.4	-11.7	-5.9	r-8.1	1.2	2.7	-2.1	-5.2	-7.4	r-9.3
Compensation per hour .....	6.6	6.8	9.6	11.1	7.8	r6.2	10.7	8.9	8.9	8.5	8.8	8.7
Real compensation per hour .....	-0.4	-4.6	1.6	7.6	3.1	r-1.3	0.9	-1.7	-0.6	1.0	1.8	r2.7
Unit labor costs .....	7.3	6.8	19.4	13.9	6.9	r-1.0	5.9	4.0	9.8	11.7	11.6	r9.5
<b>DURABLE GOODS</b>												
Output per hour of all persons .....	-0.7	-1.3	-8.0	-4.9	0.9	r7.4	4.8	5.4	-0.6	-3.8	-3.4	r-1.3
Output .....	4.5	-1.6	-21.1	-17.5	-6.4	r-4.2	6.7	9.1	-3.2	-9.5	-12.0	r-12.6
Hours .....	5.3	-0.3	-14.2	-13.2	-7.2	r-10.7	1.8	3.5	-2.6	-6.0	-8.9	r-11.4
Compensation per hour .....	5.7	6.9	10.9	10.3	7.7	r7.4	11.0	9.0	9.1	8.4	8.9	r9.1
Real compensation per hour .....	-1.2	-4.5	2.9	6.8	2.9	r-0.2	1.1	-1.6	-0.4	0.9	1.9	r3.1
Unit labor costs .....	6.5	8.3	20.5	15.9	6.7	r0.0	5.9	3.4	9.7	12.7	12.7	r10.5
<b>NONDURABLE GOODS</b>												
Output per hour of all persons .....	-0.7	1.8	-8.8	1.1	0.7	r7.0	4.2	3.7	-1.1	-1.7	-1.4	r-0.2
Output .....	0.3	1.4	-15.1	-8.3	-3.2	r2.5	4.6	5.3	-2.4	-5.6	-6.5	r-6.2
Hours .....	1.0	-0.4	-6.9	-9.3	-3.9	r-4.2	0.4	1.5	-1.2	-4.0	-5.2	-6.1
Compensation per hour .....	7.6	6.5	8.2	13.2	8.5	r4.8	10.0	8.4	8.7	8.8	9.1	8.6
Real compensation per hour .....	0.6	-4.8	0.3	9.6	3.8	r-2.6	0.2	-2.2	-0.7	1.3	2.1	2.7
Unit labor costs .....	8.3	4.6	18.5	12.0	7.8	r-2.0	5.6	4.5	10.0	10.8	10.6	r8.8
<b>NONFINANCIAL CORPORATIONS:</b>												
Output per all-employee hour .....	-0.4	r0.2	r-2.4	r0.3	r2.7	p4.6	2.9	r1.6	r0.5	r-0.6	r0.2	p1.3
Output .....	0.6	1.5	-7.5	-5.2	-0.4	p0.6	4.4	4.1	0.3	-2.7	-3.0	p-3.2
Hours .....	r1.0	1.2	r-5.1	r-5.5	r-3.1	p-3.8	r1.5	2.4	r-0.1	r-2.2	r-3.1	p-4.4
Compensation per hour .....	r6.8	r8.4	r8.2	r8.4	r6.2	p5.9	9.8	9.2	r8.9	r8.0	r7.8	p7.2
Real compensation per hour .....	-0.1	r-3.1	r0.3	r5.0	r1.6	p-1.6	r0.0	-1.4	-0.5	r0.5	r0.9	p1.3
Total unit costs .....	10.2	8.6	12.8	7.4	5.4	p2.6	8.7	8.9	9.8	9.7	8.5	p7.0
Unit labor costs .....	7.3	8.2	10.9	8.1	3.4	p1.2	6.7	7.5	8.4	8.6	7.6	p5.8
Unit nonlabor costs .....	18.5	9.8	17.8	5.7	10.7	p6.4	14.2	12.9	13.4	12.8	10.9	p10.1
Unit profits .....	-20.8	28.4	-25.9	-39.4	-16.7	p35.4	20.7	19.7	7.9	-17.8	-16.7	p-15.6
Implicit price deflator .....	7.1	10.2	8.9	3.0	3.8	p4.6	9.6	9.7	9.6	7.3	6.4	p5.0

p=preliminary.  
r=revised.

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

**C-12. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P
<b>ALABAMA</b> .....	\$284.71	\$285.52	\$289.52	40.1	39.6	40.1	\$7.10	\$7.21	\$7.22
Birmingham .....	311.26	288.67	297.20	39.5	37.2	38.9	7.88	7.76	7.64
Mobile .....	369.41	396.16	392.88	41.0	42.1	42.2	9.01	9.41	9.31
<b>ALASKA</b> .....	487.56	448.23	(*)	38.3	34.4	(*)	12.73	13.03	(*)
<b>ARIZONA</b> .....	325.12	337.42	335.23	39.6	38.3	38.4	8.21	8.81	8.73
<b>ARKANSAS</b> .....	251.86	263.25	265.95	39.6	39.0	39.4	6.36	6.75	6.75
Fayetteville—Springdale .....	225.98	238.85	235.13	39.3	38.9	38.8	5.75	6.14	6.06
Fort Smith .....	255.57	260.13	270.97	39.5	37.7	38.6	6.47	6.90	7.02
Little Rock—North Little Rock .....	293.33	303.41	311.26	39.8	39.2	39.6	7.37	7.74	7.86
Pine Bluff .....	318.48	372.20	361.42	41.2	40.5	40.7	7.73	9.19	8.88
<b>CALIFORNIA</b> .....	347.90	366.21	366.37	39.4	39.0	39.1	8.83	9.39	9.37
<b>COLORADO</b> .....	328.28	339.23	339.77	39.6	39.4	39.6	8.29	8.61	8.58
Denver—Boulder .....	328.99	350.46	352.44	39.4	39.6	39.6	8.35	8.85	8.90
<b>CONNECTICUT</b> .....	321.31	334.43	336.04	41.3	40.1	40.1	7.78	8.34	8.38
Bridgeport .....	339.20	352.00	351.82	42.4	40.6	40.3	8.00	8.67	8.73
Hartford .....	336.61	359.48	365.89	40.9	40.3	40.7	8.23	8.92	8.99
New Britain .....	332.06	342.50	340.80	42.3	40.2	40.0	7.85	8.52	8.52
New Haven—West Haven .....	300.60	319.87	318.67	39.5	39.2	39.1	7.61	8.16	8.15
Stamford .....	300.12	315.99	325.22	41.0	40.1	40.4	7.32	7.88	8.05
Waterbury .....	273.19	283.11	280.76	41.9	40.1	39.6	6.52	7.06	7.09
<b>DELAWARE</b> .....	323.92	334.85	337.98	38.7	38.4	39.3	8.37	8.72	8.60
Wilmington .....	376.71	387.87	392.31	39.2	36.8	38.2	9.61	10.54	10.27
<b>DISTRICT OF COLUMBIA:</b> Washington SMSA .....	357.19	373.01	376.89	39.6	39.1	39.3	9.02	9.54	9.59
<b>FLORIDA</b> .....	265.87	280.74	285.44	40.4	39.1	39.7	6.68	7.18	7.19
Fort Lauderdale—Hollywood .....	259.78	267.15	272.45	41.3	39.0	39.6	6.29	6.85	6.88
Jacksonville .....	326.06	320.62	324.26	42.4	39.1	39.4	7.69	8.20	8.23
Lakeland—Winter Haven .....	305.70	310.37	285.29	42.4	41.0	39.9	7.21	7.57	7.15
Miami .....	232.78	235.38	238.00	41.2	39.1	39.8	5.65	6.02	5.98
Orlando .....	297.77	311.20	315.97	42.6	40.0	40.2	6.99	7.78	7.86
Pensacola .....	328.68	367.84	364.69	41.5	41.8	39.9	7.92	8.80	9.14
Tampa—St. Petersburg .....	266.53	284.78	281.40	39.9	40.8	40.2	6.68	6.98	7.00
West Palm Beach—Boca Raton .....	289.07	299.03	306.47	40.6	40.3	40.7	7.12	7.42	7.53
<b>GEORGIA</b> .....	262.28	265.67	271.72	39.8	39.3	39.9	6.59	6.76	6.81
Atlanta .....	315.99	299.26	319.56	40.1	36.9	39.5	7.88	8.11	8.09
Savannah .....	344.86	391.61	386.61	41.3	44.3	43.1	8.35	8.84	8.97
<b>HAWAII</b> .....	306.54	313.81	319.61	39.3	37.9	38.6	7.80	8.28	8.28
Honolulu .....	301.06	310.79	316.01	38.4	37.4	37.8	7.84	8.31	8.36
<b>IDAHO</b> .....	293.59	340.86	314.39	35.5	38.0	36.9	8.27	8.97	8.52
Boise City .....	294.28	323.00	324.02	39.5	38.0	38.3	7.45	8.50	8.46
<b>ILLINOIS</b> .....	363.60	370.67	365.82	40.0	39.1	39.0	9.09	9.48	9.38
Bloomington—Normal .....	325.78	334.73	328.30	38.6	37.4	36.6	8.44	8.95	8.97
Champaign—Urbana—Rantoul .....	318.20	344.27	337.44	38.9	38.9	38.0	8.18	8.85	8.88
Chicago SMSA .....	333.04	357.20	358.56	39.6	38.7	38.6	8.41	9.23	9.29
Davenport—Rock Island—Moline .....	449.65	463.49	452.38	39.1	38.4	38.5	11.50	12.07	11.75
Decatur .....	442.09	465.66	451.63	39.9	39.8	38.8	11.08	11.70	11.64
Kankakee .....	290.40	306.16	310.90	36.9	37.2	37.1	7.87	8.23	8.38
Peoria .....	482.21	476.63	465.73	39.3	37.5	38.3	12.27	12.71	12.16
Rockford .....	375.35	389.21	377.20	40.8	40.5	40.0	9.20	9.61	9.43
Springfield .....	408.65	456.37	477.12	40.5	41.3	43.1	10.09	11.05	11.07
<b>INDIANA</b> .....	377.94	384.16	380.44	39.7	39.2	38.9	9.52	9.80	9.78
Gary—Hammond—East Chicago .....	490.59	(*)	(*)	39.5	(*)	(*)	12.42	(*)	(*)
Indianapolis .....	385.16	(*)	(*)	40.5	(*)	(*)	9.51	(*)	(*)
<b>IOWA</b> .....	391.44	399.99	391.88	39.7	39.1	38.8	9.86	10.23	10.10
Cedar Rapids .....	397.54	402.59	408.44	40.4	39.9	40.4	9.84	10.09	10.11
Des Moines .....	404.53	458.14	429.66	38.6	40.4	39.6	10.48	11.34	10.85

See footnotes at end of table.

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

**C-12. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P
<b>IOWA—Continued</b>									
Dubuque .....	\$441.14	\$421.83	\$428.53	39.6	38.7	39.9	\$11.14	\$10.90	\$10.74
Sioux City .....	288.39	386.78	364.05	37.6	41.5	38.2	7.67	9.32	9.53
Waterloo—Cedar Falls .....	505.18	497.58	515.65	38.8	37.3	38.8	13.02	13.34	13.29
<b>KANSAS</b>	338.18	356.61	356.69	40.5	39.8	39.5	8.35	8.96	9.03
Topeka .....	372.88	367.30	339.85	39.5	39.2	36.9	9.44	9.37	9.21
Wichita .....	370.96	385.83	403.57	40.9	39.9	39.8	9.07	9.67	10.14
<b>KENTUCKY</b>	314.70	329.26	331.50	38.9	38.6	39.0	8.09	8.53	8.50
Lexington—Fayette .....	325.51	379.20	394.61	39.6	40.6	39.9	8.22	9.34	9.89
Louisville .....	381.68	390.06	387.11	39.8	39.6	39.3	9.59	9.85	9.85
<b>LOUISIANA</b>	371.08	379.06	377.20	42.8	39.2	40.0	8.67	9.67	9.43
Baton Rouge .....	464.83	457.02	462.92	43.0	39.5	40.5	10.81	11.57	11.43
New Orleans .....	357.93	348.94	361.92	41.0	37.2	39.0	8.73	9.38	9.28
Shreveport .....	336.88	353.51	328.94	41.9	39.9	39.3	8.04	8.86	8.37
<b>MAINE</b>	276.89	298.75	294.52	40.6	40.1	39.8	6.82	7.45	7.40
Lewiston—Auburn .....	208.52	229.36	229.46	36.6	38.1	38.5	5.70	6.02	5.96
Portland .....	264.40	280.74	284.10	40.0	38.3	38.6	6.61	7.33	7.36
<b>MARYLAND</b>	338.24	344.47	354.42	39.7	39.1	39.6	8.52	8.81	8.95
Baltimore .....	357.46	371.33	382.04	40.3	39.8	40.3	8.87	9.33	9.48
<b>MASSACHUSETTS</b>	280.45	299.93	299.52	39.5	38.7	38.4	7.10	7.75	7.80
Boston .....	305.71	326.17	321.26	39.6	38.6	38.2	7.72	8.45	8.41
Brockton .....	232.46	239.15	235.21	39.4	37.9	37.1	5.90	6.31	6.34
Fall River .....	215.18	210.02	209.68	37.1	35.9	34.6	5.80	5.85	6.06
Lawrence—Haverhill .....	257.65	307.68	305.36	39.9	38.8	38.8	7.46	7.93	7.87
Lowell .....	256.71	259.91	271.40	39.8	36.3	37.8	6.45	7.16	7.18
New Bedford .....	228.12	259.82	245.35	35.7	37.6	34.9	6.39	6.91	7.03
Springfield—Chilcopee—Holyoke .....	290.58	306.88	310.84	41.1	39.7	39.8	7.07	7.73	7.81
Worcester .....	289.64	300.67	302.10	39.3	38.4	38.0	7.37	7.83	7.95
<b>MICHIGAN</b>	438.41	432.23	440.81	40.3	38.1	39.7	10.88	11.33	11.10
Ann Arbor .....	474.77	485.77	472.38	41.5	39.7	41.3	11.43	12.25	11.45
Battle Creek .....	431.22	441.01	446.87	40.4	37.4	38.1	10.68	11.78	11.72
Bay City .....	375.82	405.92	382.34	40.8	41.9	40.2	9.22	9.70	9.51
Detroit .....	465.11	471.14	466.88	40.5	39.7	39.9	11.48	11.87	11.69
Flint .....	533.79	464.55	509.49	42.1	35.2	39.5	12.68	13.18	12.91
Grand Rapids .....	362.12	353.27	363.76	40.2	37.3	39.0	9.01	9.47	9.32
Jackson .....	461.19	379.62	396.73	42.4	38.9	41.1	9.45	9.77	9.66
Kalamazoo—Portage .....	394.55	391.40	405.23	39.2	38.0	39.5	10.07	10.30	10.25
Lansing—East Lansing .....	513.83	423.33	486.94	40.5	34.3	39.4	12.68	12.36	12.36
Muskegon—Norton Shores—Muskegon Heights .....	364.47	375.73	384.75	40.0	38.6	38.8	9.11	9.73	9.91
Saginaw .....	489.39	472.27	496.30	38.9	36.1	39.2	12.59	13.10	12.68
<b>MINNESOTA</b>	337.66	353.47	358.80	39.4	38.8	39.0	8.57	9.11	9.20
Duluth—Superior .....	341.82	341.97	338.30	39.7	34.3	34.0	8.61	9.97	9.95
Minneapolis—St. Paul .....	355.15	376.74	378.69	39.2	39.0	39.0	9.06	9.66	9.71
St. Cloud .....	258.11	269.19	273.50	36.2	34.6	35.2	7.13	7.78	7.77
<b>MISSISSIPPI</b>	240.73	248.58	255.82	39.4	38.6	39.6	6.11	6.44	6.46
Jackson .....	261.09	268.27	277.61	39.8	38.6	39.1	6.56	6.95	7.10
<b>MISSOURI</b>	311.63	328.79	331.27	39.1	38.5	38.7	7.97	8.54	8.56
Kansas City .....	359.99	372.66	371.33	39.3	38.9	38.4	9.16	9.58	9.67
St. Joseph .....	288.25	299.85	303.24	38.9	38.1	38.0	7.41	7.87	7.98
St. Louis .....	357.90	376.53	384.94	39.2	38.5	39.2	9.13	9.78	9.82
Springfield .....	290.31	297.89	304.50	38.3	39.3	39.7	7.58	7.58	7.67
<b>MONTANA</b>	372.65	409.42	395.60	40.2	40.1	39.6	9.27	10.21	9.99
<b>NEBRASKA</b>	325.95	347.94	337.90	41.0	40.6	39.8	7.95	8.57	8.49
Lincoln .....	300.89	349.67	331.87	37.8	40.1	38.5	7.96	8.72	8.62
Omaha .....	335.81	358.16	355.12	39.6	39.1	38.6	8.48	9.16	9.20
<b>NEVADA</b>	344.42	329.49	341.51	38.1	37.4	38.2	9.04	8.81	8.94
Las Vegas .....	473.61	422.41	(*)	39.9	39.7	(*)	11.87	10.64	(*)

See footnotes at end of table.



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

**C-12. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P
<b>NEW HAMPSHIRE</b>	\$258.46	\$276.28	\$283.54	39.4	39.3	39.6	\$6.56	\$7.03	\$7.16
Manchester	239.37	265.58	262.68	39.0	40.3	39.5	6.13	6.59	6.65
Nashua	290.66	314.76	333.04	39.6	39.1	39.6	7.34	8.05	8.41
<b>NEW JERSEY</b>	332.25	348.40	352.55	40.7	40.0	40.2	8.16	8.71	8.77
Atlantic City	276.09	263.93	280.13	39.5	38.7	39.4	6.98	6.82	7.11
Camden?	313.89	354.51	367.03	38.7	39.0	40.2	8.10	9.09	9.13
Hackensack?	296.54	306.52	310.44	40.9	39.5	39.8	7.24	7.76	7.80
Jersey City?	305.95	334.84	335.20	39.9	40.1	40.0	7.66	8.35	8.38
New Brunswick—Perth Amboy—Sayreville?	395.06	398.52	394.54	42.4	40.5	40.3	9.31	9.84	9.79
Newark?	341.69	353.82	358.80	41.0	39.8	40.0	8.33	8.89	8.97
Paterson—Clifton—Passaic?	317.35	316.61	320.62	41.5	38.8	39.1	7.64	8.16	8.20
Trenton	329.69	334.07	341.82	38.8	38.8	39.2	8.50	8.61	8.72
<b>NEW MEXICO</b>	262.87	287.12	295.71	38.6	38.8	39.8	6.81	7.40	7.43
Albuquerque	271.36	315.36	317.21	38.6	38.6	39.8	7.03	8.17	7.97
<b>NEW YORK</b>	310.83	324.24	(*)	39.0	38.6	(*)	7.97	8.40	(*)
Albany—Schenectady—Troy	332.33	347.90	(*)	39.8	39.4	(*)	8.35	8.83	(*)
Binghamton	298.49	297.60	(*)	41.4	40.0	(*)	7.21	7.44	(*)
Buffalo	404.24	423.55	(*)	39.4	39.4	(*)	10.26	10.75	(*)
Elmira	309.50	339.55	(*)	40.3	39.3	(*)	7.68	8.64	(*)
Monroe County?	416.98	442.13	(*)	40.8	40.6	(*)	10.22	10.89	(*)
Nassau—Suffolk?	305.20	325.51	(*)	40.0	39.6	(*)	7.63	8.22	(*)
New York—Northeastern New Jersey	(*)	310.95	(*)	(*)	81.4	(*)	(*)	3.82	(*)
New York and Nassau—Suffolk?	272.95	286.04	(*)	37.7	37.1	(*)	7.24	7.71	(*)
New York SMSA?	264.15	275.18	(*)	37.1	36.4	(*)	7.12	7.56	(*)
New York City	259.78	270.05	(*)	36.9	36.2	(*)	7.04	7.46	(*)
Poughkeepsie	326.56	330.54	(*)	42.8	42.0	(*)	7.63	7.87	(*)
Rochester	387.73	413.70	(*)	40.6	40.4	(*)	9.55	10.24	(*)
Rockland County	312.78	330.40	(*)	40.1	39.1	(*)	7.80	8.45	(*)
Syracuse	344.69	362.60	(*)	40.6	40.2	(*)	8.49	9.02	(*)
Utica—Rome	300.00	296.32	(*)	40.0	37.7	(*)	7.50	7.86	(*)
Westchester County?	288.04	300.44	(*)	37.8	37.0	(*)	7.62	8.12	(*)
<b>NORTH CAROLINA</b>	240.07	242.44	246.02	39.1	38.0	38.5	6.14	6.38	6.39
Asheville	233.83	242.35	245.23	39.7	38.9	39.3	5.89	6.23	6.24
Charlotte—Gastonia	241.38	246.40	252.20	39.7	38.5	39.1	6.08	6.40	6.45
Greensboro—Winston-Salem—High Point	265.59	267.07	268.91	39.0	37.3	37.4	6.81	7.16	7.19
Raleigh—Durham	273.62	295.14	295.96	39.2	39.3	39.2	6.98	7.51	7.55
<b>NORTH DAKOTA</b>	277.93	289.55	283.88	39.2	37.8	37.7	7.09	7.66	7.53
Fargo—Moorhead	283.48	309.21	274.18	39.1	38.7	35.7	7.25	7.99	7.68
<b>OHIO</b>	353.50	410.66	404.59	40.4	40.3	39.9	9.74	10.19	10.14
Akron	397.99	406.31	407.95	41.2	41.0	41.0	9.66	9.91	9.95
Canton	396.21	407.93	409.77	39.7	39.3	39.1	9.98	10.38	10.48
Cincinnati	365.89	391.23	384.40	40.7	40.5	40.0	8.99	9.66	9.61
Cleveland	400.08	406.30	400.07	40.7	39.6	39.3	9.83	10.26	10.18
Columbus	356.61	376.91	378.65	39.8	39.8	39.9	8.96	9.47	9.49
Dayton	409.36	401.58	394.00	41.1	39.8	39.4	9.96	10.09	10.00
Toledo	419.22	453.70	452.92	41.1	41.7	41.4	10.20	10.88	10.94
Youngstown—Warren	460.88	464.13	458.57	39.8	39.5	39.6	11.58	11.75	11.58
<b>OKLAHOMA</b>	333.32	344.36	349.38	39.4	39.4	39.3	8.46	8.74	8.89
Oklahoma City	354.77	356.40	366.76	38.9	39.6	39.1	9.12	9.00	9.38
Tulsa	355.12	382.00	383.36	40.4	39.3	39.4	8.79	9.72	9.73
<b>OREGON</b>	360.47	395.30	(*)	37.2	39.1	(*)	9.69	10.11	(*)
Eugene—Springfield	372.37	406.36	(*)	37.2	39.3	(*)	10.01	10.34	(*)
Jackson County	334.69	370.92	(*)	36.3	38.2	(*)	9.22	9.71	(*)
Portland	377.64	(*)	(*)	38.3	(*)	(*)	9.86	(*)	(*)
Salem	290.23	300.95	(*)	34.8	37.2	(*)	8.34	8.09	(*)
<b>PENNSYLVANIA</b>	328.44	327.35	329.18	39.1	37.8	38.1	8.40	8.66	8.64
Allentown—Bethlehem—Easton	343.20	319.80	318.20	39.0	37.1	37.0	8.80	8.62	8.60
Altoona	281.64	282.94	278.98	38.9	38.6	37.7	7.24	7.33	7.40
Delaware Valley?	337.79	344.66	348.29	39.6	38.0	38.4	8.53	9.07	9.07
Erie	361.88	368.28	371.97	41.5	39.9	40.3	8.72	9.73	9.23
Harrisburg	301.48	310.84	324.09	38.9	38.0	39.0	7.75	8.18	8.31
Johnstown	334.13	293.41	265.46	37.5	34.6	33.1	8.91	8.48	8.02

See footnotes at end of table.

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

**C-12. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P
<b>PENNSYLVANIA—Continued</b>									
Lancaster .....	\$288.86	\$298.32	\$304.98	39.3	38.1	38.9	\$7.35	\$7.83	\$7.84
Northeast Pennsylvania .....	243.85	256.23	253.71	37.4	36.5	36.4	6.52	7.02	6.97
Philadelphia SMSA .....	340.23	346.47	351.40	39.7	38.2	38.7	8.57	9.07	9.08
Pittsburgh .....	402.16	393.39	393.72	39.7	36.8	36.9	10.13	10.69	10.67
Reading .....	312.42	307.18	315.63	39.2	36.7	37.8	7.97	8.37	8.35
Williamsport .....	315.14	313.17	323.56	40.5	39.0	39.7	7.88	8.03	8.15
York .....	312.98	320.39	307.97	41.4	40.3	40.1	7.56	7.95	7.68
<b>RHODE ISLAND</b>									
Providence—Warwick—Pawtucket .....	244.14	252.22	254.51	39.0	38.1	38.1	6.26	6.62	6.68
.....	243.20	251.94	252.50	39.1	38.7	38.2	6.22	6.51	6.61
<b>SOUTH CAROLINA</b>									
.....	257.35	260.35	263.70	40.4	38.4	39.3	6.37	6.78	6.71
Charleston—North Charleston .....	265.49	294.06	280.74	38.2	39.0	38.3	6.95	7.54	7.33
Columbia .....	242.35	247.87	247.04	39.6	37.9	38.3	6.12	6.54	6.45
Greenville—Spartanburg .....	252.94	249.62	249.10	40.6	38.7	38.8	6.23	6.45	6.42
<b>SOUTH DAKOTA</b>									
.....	294.35	274.23	297.98	40.6	38.3	41.1	7.25	7.16	7.25
Sioux Falls .....	444.71	318.45	415.36	43.9	36.9	47.2	10.13	8.63	8.80
<b>TENNESSEE</b>									
.....	272.12	283.14	281.46	39.9	39.0	39.2	6.82	7.26	7.18
Chattanooga .....	267.15	281.47	278.80	40.6	39.7	40.0	6.58	7.09	6.97
Knoxville .....	295.10	326.09	318.24	39.2	39.1	39.0	7.63	8.34	8.16
Memphis .....	309.32	304.98	296.05	40.7	39.2	38.2	7.60	7.78	7.75
Nashville—Davidson .....	307.09	318.40	316.81	41.0	40.0	39.8	7.49	7.96	7.96
<b>TEXAS</b>									
.....	335.37	349.34	348.07	41.2	40.2	40.1	8.14	8.69	8.68
Dallas—Fort Worth .....	316.71	327.92	333.60	40.5	39.7	40.0	7.82	8.26	8.34
Houston .....	433.84	434.92	431.59	44.0	41.5	41.3	9.86	10.48	10.45
San Antonio .....	245.40	245.50	240.15	40.9	38.6	37.7	6.00	6.36	6.37
<b>UTAH</b>									
.....	319.20	328.14	327.66	39.9	38.2	38.1	8.00	8.59	8.60
Salt Lake City—Ogden .....	311.18	326.37	331.96	40.1	38.9	39.1	7.76	8.39	8.49
<b>VERMONT</b>									
.....	279.30	294.71	297.00	39.9	39.4	39.6	7.00	7.48	7.50
Burlington .....	305.44	340.29	339.06	41.5	40.9	40.9	7.36	8.32	8.29
Springfield .....	305.63	297.59	305.76	39.9	38.3	39.0	7.67	7.77	7.84
<b>VIRGINIA</b>									
.....	280.59	289.48	284.10	39.8	38.7	38.6	7.05	7.48	7.36
Bristol .....	230.14	243.91	246.86	37.0	36.9	36.9	6.22	6.61	6.69
Lynchburg .....	272.40	267.25	263.25	40.0	37.8	37.5	6.81	7.07	7.02
Norfolk—Virginia Beach—Portsmouth .....	293.22	315.88	316.52	40.5	41.4	41.0	7.24	7.63	7.72
Northern Virginia <sup>1</sup> .....	310.72	325.62	323.19	41.1	40.2	39.9	7.56	8.10	8.10
Petersburg—Colonial Heights—Hopewell .....	355.10	386.72	384.48	39.9	40.2	40.6	9.00	9.62	9.47
Richmond .....	365.31	364.02	358.51	41.0	39.1	38.8	8.91	9.31	9.24
Roanoke .....	266.49	264.26	270.47	40.5	39.5	39.6	6.58	6.69	6.83
<b>WASHINGTON</b>									
.....	417.79	445.70	(*)	38.9	39.2	(*)	10.74	11.37	(*)
Seattle—Everett .....	440.03	(*)	(*)	39.5	(*)	(*)	11.14	(*)	(*)
<b>WEST VIRGINIA</b>									
.....	346.72	363.66	366.32	39.4	38.0	38.0	8.80	9.57	9.64
Charleston .....	431.57	452.09	452.18	42.9	41.4	40.7	10.06	10.92	11.11
Huntington—Ashland .....	395.26	393.02	396.34	38.3	35.6	36.8	10.32	11.04	10.77
Parkersburg—Martetta .....	387.03	411.59	424.91	40.4	39.5	40.7	9.58	10.42	10.44
Wheeling .....	392.78	389.18	405.53	39.2	37.1	36.9	10.02	10.49	10.99
<b>WISCONSIN</b>									
.....	358.32	371.72	375.53	39.9	39.7	39.5	8.98	9.36	9.51
Appleton—Oshkosh .....	355.11	363.93	371.41	41.3	41.0	41.6	8.60	8.88	8.93
Eau Claire .....	351.09	362.85	371.47	40.9	40.1	39.9	8.58	9.06	9.31
Green Bay .....	369.85	412.95	422.46	40.9	42.8	41.9	9.04	9.66	10.09
Janesville—Beloit .....	370.80	384.38	394.44	40.3	38.9	39.9	9.21	9.87	9.90
Kenosha .....	362.87	466.94	500.37	37.8	40.8	41.3	9.59	11.45	12.12
La Crosse .....	316.03	334.12	340.41	39.6	39.0	38.8	7.97	8.57	8.76
Madison .....	341.97	352.98	358.62	39.6	39.0	38.2	8.64	9.06	9.38
Milwaukee .....	395.88	415.74	412.67	39.6	39.3	39.0	9.99	10.59	10.57
Racine .....	390.09	399.48	406.18	40.1	39.4	39.9	9.73	10.14	10.18
<b>WYOMING</b>									
.....	315.20	300.00	300.56	40.0	35.8	36.3	7.88	8.38	8.28

See footnotes at end of table.

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

**C-12. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P	OCT. 1981	SEP. 1982	OCT. 1982P
<b>VIRGIN ISLANDS</b> .....	\$362.47	\$430.43	\$420.04	40.5	43.0	42.6	\$8.95	\$10.01	\$9.86

<sup>1</sup> Revised to 1981 benchmark; not strictly comparable with previously published data.  
<sup>2</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.  
<sup>3</sup> Subarea of New York—Northeastern New Jersey.  
<sup>4</sup> Subarea of Rochester Standard Metropolitan Statistical Area.  
<sup>5</sup> Area included in New York and Nassau—Suffolk combined SMSA's.  
<sup>6</sup> Subarea of New York Standard Metropolitan Statistical Area.  
<sup>7</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical

Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.  
<sup>8</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.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	OCT. 1981	SEPT. 1982	OCT. 1982P	OCT. 1981	SEPT. 1982	OCT. 1982P	OCT. 1981	SEPT. 1982	OCT. 1982P
<b>ALABAMA</b>	1,686.0	1,694.8	1,723.2	176.5	245.9	258.5	10.5	14.5	15.0
Birmingham	377.4	381.4	387.7	39.4	56.9	60.5	10.4	14.9	15.6
Huntsville	144.7	148.7	151.2	13.6	17.8	18.6	9.4	12.0	12.3
Mobile	190.5	191.2	193.3	18.8	28.6	29.0	9.9	14.9	15.0
Montgomery	122.5	121.3	122.1	11.5	14.1	14.6	9.4	11.7	11.9
Tuscaloosa	54.7	53.1	54.9	4.9	6.0	6.5	8.9	11.3	11.9
<b>ALASKA</b>	195.9	204.6	200.4	16.9	15.9	17.3	8.6	7.8	8.7
<b>ARIZONA</b>	1,278.3	1,340.7	1,353.8	78.1	143.9	142.4	6.1	10.7	10.5
Phoenix	781.6	812.8	822.2	39.2	69.1	69.3	5.0	8.5	8.4
Tucson	232.2	248.9	250.7	12.2	25.4	25.8	5.3	10.2	10.3
<b>ARKANSAS</b>	1,047.0	1,045.1	1,055.4	84.6	99.6	101.4	8.1	9.5	9.6
Fayetteville-Springdale	82.8	82.3	82.6	3.8	6.1	5.7	4.6	7.4	6.9
Fort Smith	89.5	86.4	87.2	8.2	9.1	9.4	9.2	10.5	10.8
Little Rock—North Little Rock	198.8	200.5	202.1	14.0	16.2	16.2	7.1	8.1	8.0
Pine Bluff	41.8	41.3	41.3	3.8	4.6	4.4	9.2	11.2	10.6
<b>CALIFORNIA*</b>	11,873.0	12,203.5	12,273.8	911.1	1,178.2	1,267.6	7.7	9.7	10.3
Anaheim—Santa Ana—Garden Grove	1,173.3	1,199.6	1,227.9	57.8	92.0	98.1	4.9	7.7	8.0
Bakersfield	198.5	204.6	208.8	18.9	25.6	28.1	9.5	12.5	13.4
Fresno	273.7	335.2	289.1	31.4	34.4	38.8	11.5	10.3	13.4
Los Angeles—Long Beach	3,740.0	3,781.0	3,746.0	282.0	356.0	384.0	7.5	9.4	10.2
Modesto	139.7	147.9	147.3	17.3	19.3	22.1	12.4	13.1	15.0
Oxnard—Simi Valley—Ventura	251.7	261.3	268.7	22.4	31.4	34.3	8.9	12.0	12.8
Riverside—San Bernardino—Ontario	612.6	631.5	650.3	55.2	81.8	87.5	9.0	12.9	13.5
Sacramento	499.0	512.7	516.9	44.1	52.3	56.3	8.8	10.2	10.9
Salinas—Seaside—Monterey	138.7	144.4	146.5	11.2	12.8	13.8	8.1	8.9	9.4
San Diego	804.2	823.0	838.3	61.8	85.3	89.5	7.7	10.4	10.7
San Francisco—Oakland	1,704.1	1,742.7	1,784.0	101.9	139.8	149.7	6.0	8.0	8.4
San Jose	792.7	820.0	836.2	49.7	60.6	65.9	6.3	7.4	7.9
Santa Barbara—Santa Maria—Lompoc	154.6	158.3	162.6	9.6	12.0	13.2	6.2	7.6	8.1
Santa Rosa	143.4	147.9	151.5	11.0	14.0	14.6	7.7	9.4	9.7
Stockton	176.8	188.7	189.0	21.0	22.1	24.4	11.9	11.7	12.9
Vallejo—Fairfield—Napa	137.0	139.2	144.2	11.5	14.1	15.3	8.4	10.1	10.6
<b>COLORADO</b>	1,546.9	1,587.8	1,590.4	80.2	121.5	130.0	5.2	7.6	8.2
Denver—Boulder	918.8	939.4	939.4	43.3	64.5	69.3	4.7	6.9	7.4
<b>CONNECTICUT</b>	1,585.1	1,598.7	1,600.6	91.3	103.1	110.8	5.8	6.5	6.9
Bridgeport	192.8	194.4	194.7	11.4	14.8	16.1	5.9	7.6	8.3
Hartford	382.8	389.0	389.7	20.9	24.6	25.3	5.5	6.3	6.5
New Britain	74.4	73.2	73.5	4.9	6.2	6.7	6.6	8.4	9.1
New Haven—West Haven	198.6	200.1	201.8	12.2	12.4	13.8	6.1	6.2	6.8
Stamford	121.7	124.0	122.9	4.4	4.3	4.7	3.6	3.5	3.8
Waterbury	105.6	108.6	108.2	6.9	8.9	9.6	6.5	8.2	8.8
<b>DELAWARE</b>	289.3	292.1	290.5	21.0	23.2	22.2	7.3	7.9	7.6
Wilmington	256.2	254.0	254.5	17.9	21.4	20.4	7.0	8.4	8.0
<b>DISTRICT OF COLUMBIA</b>	306.8	318.1	319.7	27.6	35.0	35.6	9.0	11.0	11.1
Washington SMSA	1,683.2	1,709.0	1,710.5	86.9	100.0	99.9	5.2	5.8	5.8
<b>FLORIDA*</b>	4,625.2	4,937.2	4,988.7	363.8	406.2	458.8	7.9	8.2	9.2
Daytona Beach	110.1	115.0	117.7	8.0	7.0	9.1	7.3	6.1	7.7
Fort Lauderdale—Hollywood	487.8	513.4	515.6	30.7	35.9	42.0	6.3	7.0	8.1
Fort Myers—Cape Coral	96.8	106.3	108.1	6.3	8.3	9.6	6.5	7.8	8.9
Gainesville	82.6	84.2	84.6	4.7	3.7	4.3	5.7	4.4	5.1
Jacksonville	353.0	378.0	379.1	28.5	25.6	28.1	8.1	6.8	7.4
Lakeland—Winter Haven	151.7	153.0	160.2	22.8	26.6	27.7	15.1	17.4	17.3
Melbourne—Titusville—Cocoa	126.3	132.6	133.1	11.3	10.4	11.3	7.9	7.9	8.5
Miami	835.9	893.5	900.1	63.3	79.2	87.2	7.6	8.9	9.7
Orlando	374.7	402.0	407.2	29.9	26.7	32.0	8.0	6.6	7.9
Pensacola	125.0	134.0	136.9	9.1	8.6	11.8	7.3	6.5	8.7
Sarasota	79.9	87.4	87.9	4.9	6.6	6.2	6.2	7.5	7.1
Tallahassee	89.3	93.9	95.3	4.4	4.0	4.9	4.9	4.2	5.1
Tampa—St. Petersburg	719.2	774.4	780.6	50.4	56.4	64.4	7.0	7.3	8.2
West Palm Beach—Boca Raton	278.1	298.3	304.0	22.2	28.0	32.5	8.0	9.4	10.7

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	OCT. 1981	SEPT. 1982	OCT. 1982P	OCT. 1981	SEPT. 1982	OCT. 1982P	OCT. 1981	SEPT. 1982	OCT. 1982P
<b>GEORGIA</b> .....	2,627.3	2,679.1	2,683.0	169.2	202.5	208.5	6.4	7.6	7.8
Albany .....	53.6	55.3	55.3	4.1	5.1	5.1	7.7	9.2	9.3
Atlanta .....	1,074.3	1,113.0	1,115.3	58.5	70.2	72.3	5.4	6.3	6.5
Augusta .....	133.0	140.5	139.1	10.3	14.7	13.2	7.7	10.4	9.5
Columbus <sup>1</sup> .....	90.1	87.8	89.0	7.8	8.2	8.7	8.7	9.4	9.8
Macon .....	106.9	110.2	109.9	6.9	7.5	7.8	6.4	6.8	7.1
Savannah .....	98.6	100.2	100.2	5.8	7.5	8.1	5.9	7.5	8.1
<b>HAWAII</b> .....	446.6	445.2	456.5	25.1	35.1	35.6	5.6	7.9	7.8
Honolulu .....	344.3	339.3	348.8	18.1	24.3	24.9	5.3	7.1	7.1
<b>IDAHO</b> .....	432.8	444.4	446.1	28.0	34.3	35.7	6.5	7.7	8.0
Boise City .....	87.4	91.5	90.7	4.7	5.6	5.9	5.4	6.1	6.6
<b>ILLINOIS<sup>2</sup></b> .....	5,633.5	5,640.9	5,565.8	461.7	683.2	666.6	8.2	12.1	12.0
Bloomington—Normal .....	64.3	62.5	61.8	3.2	5.5	5.4	5.0	8.7	8.8
Champaign—Urbana—Rantoul .....	89.7	86.2	86.9	5.0	6.4	6.3	5.6	7.4	7.2
Chicago .....	3,531.1	3,539.1	3,483.6	282.4	402.0	384.9	8.0	11.4	11.0
Davenport—Rock Island—Moline <sup>1</sup> .....	190.0	191.9	191.7	16.7	31.7	31.9	8.8	16.5	16.6
Decatur .....	62.7	63.2	63.5	7.1	10.5	10.7	11.3	16.6	16.8
Kankakee .....	42.1	42.1	41.0	5.8	7.2	7.1	13.9	17.2	17.4
Peoria .....	176.2	174.8	175.0	13.1	28.2	29.5	7.4	16.1	16.9
Rockford .....	137.4	137.2	136.8	12.5	22.8	28.1	9.1	16.7	20.5
Springfield .....	99.9	100.6	98.8	6.2	7.7	7.9	6.2	7.7	7.9
<b>INDIANA</b> .....	2,612.8	2,598.9	2,605.8	249.6	297.1	309.8	9.6	11.4	11.9
Anderson .....	56.3	53.8	54.2	7.1	7.0	7.8	12.6	13.0	14.3
Elkhart .....	66.5	65.7	65.9	6.0	6.3	6.4	9.0	9.5	9.7
Evansville <sup>1</sup> .....	148.2	148.3	149.0	13.4	14.2	14.7	9.0	9.6	9.8
Fort Wayne .....	192.1	191.8	190.0	18.4	24.7	22.9	9.6	12.9	12.0
Gary—Hammond—East Chicago .....	293.3	293.4	295.7	35.5	45.8	50.4	12.1	15.6	17.0
Indianapolis .....	610.0	609.5	612.1	48.9	55.2	57.8	8.0	9.1	9.4
Lafayette—West Lafayette .....	64.7	65.4	66.0	4.5	5.5	5.7	7.0	8.4	8.7
Muncie .....	58.4	56.8	56.9	7.2	7.4	7.8	12.3	13.1	13.7
South Bend .....	134.7	134.9	134.2	10.9	13.1	12.2	8.1	9.7	9.1
Terre Haute .....	79.8	76.1	76.0	7.5	8.7	8.5	9.4	11.4	11.2
<b>IOWA</b> .....	1,426.4	1,372.2	1,390.9	84.2	105.7	109.0	5.9	7.7	7.8
Cedar Rapids .....	85.8	80.8	82.6	6.0	8.2	8.6	7.0	10.2	10.4
Des Moines .....	181.1	173.2	176.1	11.5	13.4	13.8	6.3	7.8	7.8
Dubuque .....	44.7	41.6	42.2	4.9	5.7	5.9	11.0	13.7	14.0
Sioux City <sup>1</sup> .....	53.4	54.8	53.8	3.9	4.3	4.0	7.1	7.8	7.4
Waterloo—Cedar Falls .....	67.9	64.3	64.6	5.0	6.7	6.8	7.3	10.4	10.5
<b>KANSAS</b> .....	1,193.9	1,177.8	1,186.1	48.7	83.1	82.8	4.1	7.1	7.0
Lawrence .....	35.7	34.1	34.9	1.6	1.7	1.8	4.6	4.9	5.2
Topeka .....	95.3	92.4	93.3	5.5	6.7	6.8	5.8	7.2	7.2
Wichita .....	228.2	225.7	227.3	9.2	24.5	23.4	4.0	10.8	10.3
<b>KENTUCKY</b> .....	1,679.6	1,718.4	1,729.2	117.3	184.2	183.5	7.0	10.7	10.6
Lexington—Fayette .....	183.8	188.7	192.6	8.2	11.7	11.9	4.4	6.2	6.2
Louisville <sup>1</sup> .....	429.5	437.9	440.5	33.8	48.9	51.1	7.9	11.2	11.6
Owensboro .....	43.6	42.3	41.9	3.0	4.3	3.9	6.8	10.2	9.3
<b>LOUISIANA</b> .....	1,889.7	1,925.7	1,913.7	151.5	214.3	208.4	8.0	11.1	10.9
Alexandria .....	74.1	75.9	75.4	7.2	8.5	8.2	9.8	11.3	10.9
Baton Rouge .....	230.8	231.4	231.7	17.1	23.5	22.7	7.4	10.2	9.8
Lafayette .....	94.6	101.9	100.7	4.2	6.3	6.4	4.4	6.2	6.3
Lake Charles .....	82.3	78.2	77.7	7.0	11.7	11.4	8.6	15.0	14.6
Monroe .....	56.6	56.6	55.8	5.6	7.1	6.9	9.8	12.5	12.4
New Orleans .....	516.4	513.7	509.9	39.8	52.7	50.1	7.7	10.3	9.8
Shreveport .....	164.8	162.9	162.1	13.0	17.1	17.0	7.9	10.5	10.5
<b>MAINE</b> .....	505.8	533.9	510.6	31.5	40.0	38.4	6.2	7.5	7.5
Lewiston—Auburn .....	37.6	37.7	37.3	2.3	3.3	3.1	6.1	8.7	8.3
Portland .....	91.6	93.4	94.5	4.4	5.3	5.2	4.8	5.7	5.5
<b>MARYLAND</b> .....	2,159.4	2,178.9	2,181.4	153.5	177.6	174.1	7.1	8.1	8.0
Baltimore .....	1,078.9	1,085.7	1,090.5	88.6	105.6	102.3	8.2	9.7	9.4

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	OCT. 1981	SEPT. 1982	OCT. 1982P	OCT. 1981	SEPT. 1982	OCT. 1982P	OCT. 1981	SEPT. 1982	OCT. 1982P
<b>MASSACHUSETTS<sup>1</sup></b> .....	3,032.3	3,064.2	3,042.8	204.7	225.8	220.3	6.7	7.4	7.2
Boston .....	1,466.2	1,481.5	1,479.0	92.3	94.5	90.4	6.3	6.4	6.1
Brookton .....	84.4	82.9	82.3	6.7	7.6	6.7	8.0	9.2	8.2
Fall River <sup>2</sup> .....	75.9	77.5	75.8	6.8	7.7	7.5	8.9	9.9	9.9
Lawrence—Haverhill <sup>1</sup> .....	150.9	146.3	147.8	10.8	12.8	13.1	7.2	8.7	8.9
Lowell .....	133.5	133.5	133.9	9.4	10.0	9.7	7.0	7.5	7.3
New Bedford .....	87.8	85.0	84.7	8.0	9.4	9.4	9.1	11.1	11.1
Springfield—Chicopee—Holyoke .....	288.4	296.5	293.6	19.3	21.5	19.8	6.7	7.2	6.7
Worcester .....	206.7	206.3	208.2	12.6	17.1	17.7	6.1	8.3	8.5
<b>MICHIGAN<sup>2</sup></b> .....	4,344.1	4,306.6	4,278.7	503.9	624.4	636.7	11.6	14.5	14.9
Ann Arbor .....	145.3	144.2	140.7	11.1	15.3	15.4	7.7	10.6	11.0
Battle Creek .....	80.8	83.4	81.7	8.2	13.4	12.4	10.1	16.0	15.1
Bay City .....	54.2	54.6	55.0	6.5	7.7	7.9	12.0	14.1	14.3
Detroit .....	2,007.3	1,979.6	1,967.9	250.5	300.3	309.1	12.5	15.2	15.7
Flint .....	226.8	225.4	225.8	32.1	40.2	46.6	14.1	17.8	20.6
Grand Rapids .....	332.9	331.7	329.8	31.1	36.4	35.3	9.3	11.0	10.7
Jackson .....	66.5	66.5	66.0	7.3	10.4	10.8	10.9	15.6	16.4
Kalamazoo—Portage .....	140.5	141.5	139.2	11.3	15.2	14.3	8.0	10.7	10.3
Lansing—East Lansing .....	250.6	242.6	245.3	23.6	28.9	26.9	9.4	11.9	11.0
Muskegon—Norton Shores—Muskegon Heights .....	78.2	81.3	79.7	9.5	14.0	14.0	12.2	17.2	17.5
Saginaw .....	103.2	102.9	101.5	14.2	14.5	14.9	13.7	14.1	14.7
<b>MINNESOTA</b> .....	2,157.5	2,172.8	2,166.7	102.1	155.7	165.5	4.7	7.2	7.6
Duluth—Superior <sup>1</sup> .....	113.4	114.8	114.5	9.5	21.4	22.3	8.3	18.6	19.4
Minneapolis—St. Paul .....	1,171.8	1,160.8	1,169.0	48.3	75.0	79.0	4.1	6.5	6.8
Rochester .....	58.1	58.6	58.7	2.4	3.0	3.5	4.2	5.2	6.0
St. Cloud .....	75.0	77.8	77.2	5.1	6.2	6.6	6.8	8.0	8.5
<b>MISSISSIPPI</b> .....	1,061.9	1,064.8	1,064.7	81.1	130.1	129.7	7.6	12.2	12.2
Jackson .....	160.9	159.2	159.1	9.5	13.7	13.6	5.9	8.6	8.5
<b>MISSOURI</b> .....	2,326.4	2,339.4	2,303.6	168.9	208.1	199.5	7.3	8.9	8.7
Kansas City <sup>1</sup> .....	686.6	669.5	661.4	51.4	57.6	52.7	7.5	8.6	8.0
St. Joseph .....	43.8	44.4	43.4	3.8	4.6	4.4	8.6	10.4	10.2
St. Louis <sup>1</sup> .....	1,116.3	1,122.3	1,107.1	89.6	110.4	105.4	8.0	9.8	9.5
Springfield .....	109.0	110.0	108.3	6.0	8.3	8.4	5.5	7.5	7.7
<b>MONTANA</b> .....	382.1	385.7	385.3	21.7	28.9	32.0	5.7	7.5	8.3
Billings .....	59.3	60.9	61.3	2.2	3.6	3.6	3.7	5.9	5.9
Great Falls .....	34.5	35.2	35.5	2.0	2.7	2.9	5.8	7.7	8.3
<b>NEBRASKA</b> .....	778.2	773.1	774.1	29.6	41.8	43.7	3.8	5.4	5.6
Lincoln .....	111.0	111.2	111.4	4.0	5.3	5.5	3.6	4.8	4.9
Omaha <sup>1</sup> .....	283.6	280.9	281.8	14.8	19.7	20.3	5.2	7.0	7.2
<b>NEVADA</b> .....	470.6	486.1	487.2	30.8	50.4	53.4	6.6	10.4	11.0
Las Vegas .....	262.4	270.5	271.7	19.6	31.5	33.2	7.5	11.6	12.2
Reno .....	129.1	133.7	134.0	6.3	10.8	11.4	4.9	8.1	8.5
<b>NEW HAMPSHIRE</b> .....	482.8	484.3	481.3	20.9	30.5	34.1	4.3	6.3	7.1
Manchester .....	84.0	84.6	84.8	3.9	5.4	5.8	4.6	6.4	6.8
Nashua .....	83.9	83.5	84.1	3.6	5.3	5.9	4.3	6.3	7.0
<b>NEW JERSEY</b> .....	3,581.5	3,595.8	3,636.3	229.8	307.9	300.1	6.4	8.6	8.3
Atlantic City .....	116.7	120.7	121.0	10.2	10.7	11.4	8.7	8.9	9.4
Jersey City .....	242.3	243.4	245.6	22.3	31.6	31.1	9.2	13.0	12.7
Long Branch—Asbury Park .....	241.7	250.2	250.3	16.2	20.4	20.4	6.7	8.2	8.1
New Brunswick—Perth Amboy—Sayreville .....	332.1	331.0	335.9	18.0	28.1	26.8	5.4	8.5	8.0
Newark .....	965.6	972.3	990.4	60.4	82.1	78.3	6.3	8.4	7.9
Paterson—Clifton—Passaic .....	207.4	206.4	208.6	15.0	22.2	21.1	7.2	10.7	10.1
Trenton .....	157.7	156.8	159.7	8.1	12.8	11.8	5.2	8.2	7.4
Vineland—Millville—Bridgeton .....	58.3	59.3	58.8	6.2	8.9	8.3	10.7	15.1	14.0
<b>NEW MEXICO</b> .....	584.3	606.9	612.7	42.0	60.2	63.7	7.2	9.9	10.4
Albuquerque .....	212.5	223.3	224.9	15.7	19.0	20.8	7.4	8.5	9.2
Las Cruces .....	37.2	38.4	40.5	2.7	3.9	4.0	7.3	10.1	10.0

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	OCT. 1981	SEPT. 1982	OCT. 1982P	OCT. 1981	SEPT. 1982	OCT. 1982P	OCT. 1981	SEPT. 1982	OCT. 1982P
<b>NEW YORK<sup>1</sup></b> .....	7,935.6	7,900.6	7,947.0	534.0	666.6	716.0	6.7	8.4	9.0
Albany—Schenectady—Troy .....	371.5	371.9	373.4	17.1	25.8	26.7	4.6	6.9	7.1
Binghamton <sup>1</sup> .....	139.2	140.6	141.5	6.9	10.9	11.6	5.0	7.8	8.2
Buffalo .....	552.5	547.0	551.9	42.4	69.5	75.3	7.7	12.7	13.6
Elmira .....	39.1	38.1	38.5	2.4	4.8	5.0	6.1	12.6	13.0
Nassau-Suffolk .....	1,298.3	1,312.6	1,314.2	59.8	87.8	86.5	4.6	6.7	6.6
New York .....	3,638.6	3,589.6	3,617.8	303.3	309.6	340.5	8.3	8.6	9.4
New York City <sup>2</sup> .....	3,026.0	2,975.0	3,002.0	281.0	274.0	305.0	9.3	9.2	10.1
Poughkeepsie .....	110.9	112.2	113.0	4.7	6.9	7.4	4.2	6.1	6.5
Rochester .....	473.0	471.4	478.5	21.9	35.4	38.9	4.6	7.5	8.1
Syracuse .....	298.4	296.2	298.9	15.7	24.1	25.4	5.3	8.1	8.5
Utica—Rome .....	133.5	134.2	135.2	7.1	11.5	12.7	5.3	8.6	9.4
<b>NORTH CAROLINA</b> .....	2,924.4	2,959.7	2,965.0	172.7	257.7	276.3	5.9	8.7	9.3
Asheville .....	89.5	92.2	91.3	5.2	6.9	7.2	5.8	7.4	7.9
Charlotte—Gastonia .....	374.3	379.8	383.7	17.6	26.6	29.7	4.7	7.0	7.7
Greensboro—Winston-Salem—High Point .....	447.3	454.9	459.7	23.8	36.3	39.8	5.3	8.0	8.7
Raleigh—Durham .....	313.9	318.9	323.1	10.8	14.9	15.6	3.4	4.7	4.8
<b>NORTH DAKOTA</b> .....	313.9	317.1	308.3	11.5	15.3	17.0	3.7	4.8	5.5
Fargo—Moorehead <sup>1</sup> .....	73.1	71.5	72.5	2.9	3.3	3.5	3.9	4.6	4.9
<b>OHIO<sup>1</sup></b> .....	5,083.8	5,121.7	5,162.9	503.6	629.2	680.8	9.9	12.3	13.2
Akron .....	302.2	305.7	306.5	28.6	36.0	37.8	9.4	11.8	12.3
Canton .....	187.0	192.6	196.3	17.5	26.2	31.3	9.4	13.6	15.9
Cincinnati <sup>1</sup> .....	678.9	690.0	696.1	62.8	70.6	77.6	9.2	10.2	11.1
Cleveland .....	923.6	926.4	936.9	79.9	98.7	111.4	8.7	10.7	11.9
Columbus .....	565.5	566.5	574.0	46.3	49.7	51.1	8.2	8.8	8.9
Dayton .....	389.7	394.7	396.9	33.3	42.9	45.7	8.5	10.9	11.5
Toledo <sup>1</sup> .....	370.6	368.8	374.6	41.6	45.0	49.1	11.2	12.2	13.1
Youngstown—Warren .....	230.2	238.6	241.0	25.3	45.0	47.5	11.0	18.8	19.7
<b>OKLAHOMA</b> .....	1,474.3	1,477.5	1,458.7	52.6	89.3	91.3	3.6	6.0	6.3
Enid .....	30.5	29.2	28.7	.9	1.9	1.8	3.1	6.4	6.4
Lawton .....	35.1	33.8	34.1	1.5	1.8	1.9	4.3	5.2	5.5
Oklahoma City .....	456.4	467.5	459.9	14.1	23.8	22.4	3.1	5.1	4.9
Tulsa .....	365.5	361.9	355.3	13.6	24.9	24.9	3.7	6.9	7.0
<b>OREGON</b> .....	1,335.6	1,310.4	1,305.1	127.8	131.7	134.7	9.6	10.0	10.3
Eugene—Springfield .....	140.0	131.4	132.5	16.7	14.5	15.0	11.9	11.0	11.3
Portland <sup>1</sup> .....	651.2	645.2	645.6	51.6	63.0	64.6	7.9	9.8	10.0
Salem .....	127.9	131.8	128.2	10.0	10.1	10.6	7.8	7.7	8.3
<b>PENNSYLVANIA<sup>1</sup></b> .....	5,525.7	5,493.2	5,539.3	474.9	601.4	620.5	8.6	10.9	11.2
Allentown—Bethlehem—Easton <sup>1</sup> .....	314.1	309.2	310.8	24.7	32.7	34.5	7.9	10.6	11.1
Altoona .....	58.4	57.1	56.8	6.7	6.1	7.7	11.5	10.6	13.5
Erie .....	126.2	125.5	126.4	11.4	15.7	16.8	9.0	12.5	13.3
Harrisburg .....	238.5	239.5	240.5	15.0	14.8	15.5	6.3	6.2	6.4
Johnstown .....	107.0	104.6	107.4	13.3	17.6	20.0	12.5	16.8	18.6
Lancaster .....	186.8	185.2	186.7	10.0	12.3	12.8	5.4	6.6	6.9
Northeast Pennsylvania .....	289.3	283.9	288.1	28.0	30.5	31.2	9.7	10.8	10.8
Philadelphia <sup>1</sup> .....	2,206.8	2,184.6	2,210.3	181.5	184.7	184.6	8.2	8.5	8.4
Pittsburgh .....	1,044.5	1,043.1	1,045.7	77.9	144.7	145.4	7.5	13.9	13.9
Reading .....	162.0	158.4	160.2	12.3	14.2	15.3	7.6	9.0	9.6
Williamsport .....	53.9	52.4	53.1	6.5	6.1	6.1	12.1	11.6	11.5
York .....	182.3	182.4	184.1	13.6	19.4	20.1	7.5	10.6	10.9
<b>RHODE ISLAND</b> .....	479.2	484.2	484.7	31.2	41.8	43.9	6.5	8.6	9.1
Providence—Warwick—Pawtucket <sup>1</sup> .....	475.0	476.2	477.4	31.5	42.9	44.4	6.6	9.0	9.3
<b>SOUTH CAROLINA</b> .....	1,424.6	1,471.9	1,479.7	117.3	157.2	159.3	8.2	10.7	10.8
Charleston—North Charleston .....	172.4	181.2	183.1	13.2	16.4	16.3	7.7	9.0	8.9
Columbia .....	188.3	193.2	196.3	11.2	14.0	14.2	5.9	7.2	7.2
Greenville—Spartanburg .....	286.0	295.4	296.7	21.4	30.1	30.4	7.5	10.2	10.3
<b>SOUTH DAKOTA</b> .....	336.3	328.7	323.4	15.0	15.2	16.2	4.5	4.6	5.0
Sioux Falls .....	63.3	62.2	62.9	2.9	2.6	2.8	4.6	4.2	4.4
<b>TENNESSEE</b> .....	2,129.8	2,150.4	2,167.7	178.1	235.0	243.2	8.4	10.9	11.2
Chattanooga <sup>1</sup> .....	199.6	205.7	207.6	17.1	22.9	24.9	8.6	11.1	12.0
Knoxville .....	226.9	233.4	234.8	15.6	18.4	18.9	6.9	7.9	8.0
Memphis <sup>1</sup> .....	412.7	415.7	417.0	35.0	39.5	39.4	8.5	9.5	9.5
Nashville—Davidson .....	432.1	431.0	434.9	26.6	34.7	35.5	6.1	8.0	8.2

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	OCT. 1981	SEPT. 1982	OCT. 1982P	OCT. 1981	SEPT. 1982	OCT. 1982P	OCT. 1981	SEPT. 1982	OCT. 1982P
<b>TEXAS</b> <sup>1</sup> .....	7,146.7	7,311.4	7,320.7	332.4	587.4	554.9	4.7	8.0	7.6
Dallas—Fort Worth .....	1,677.2	1,739.5	1,742.5	71.3	111.0	102.0	4.3	6.4	5.9
Houston .....	1,705.2	1,726.9	1,733.2	68.5	143.0	138.4	4.0	8.3	8.0
San Antonio .....	461.0	470.1	470.5	26.5	37.1	33.9	5.7	7.9	7.2
<b>UTAH</b> .....	657.9	682.0	675.5	40.8	52.8	54.2	6.2	7.7	8.0
Salt Lake City—Ogden .....	431.9	441.3	440.1	26.2	33.8	35.1	6.1	7.7	8.0
<b>VERMONT</b> .....	261.0	274.2	274.3	12.9	15.6	16.5	4.9	5.7	6.0
<b>VIRGINIA</b> .....	2,604.8	2,641.2	2,643.2	146.1	194.2	205.8	5.6	7.4	7.8
Lynchburg .....	75.3	76.5	75.3	4.0	7.1	6.7	5.3	9.3	8.9
Newport News—Hampton .....	166.9	172.4	172.4	9.8	11.2	12.0	5.9	6.5	7.0
Norfolk—Virginia Beach—Portsmouth <sup>1</sup> .....	335.1	342.1	344.0	20.3	25.2	26.6	6.0	7.4	7.7
Petersburg—Colonial Heights—Hopewell .....	57.9	59.7	60.0	4.2	5.3	6.1	7.2	8.9	10.2
Richmond .....	333.1	340.4	339.7	13.7	19.4	19.9	4.1	5.7	5.9
Roanoke .....	110.4	110.7	111.2	7.4	7.5	8.7	6.7	6.8	7.9
<b>WASHINGTON</b> .....	1,989.5	2,024.3	2,040.0	186.5	225.7	233.1	9.4	11.1	11.4
Seattle—Everett .....	866.1	889.7	897.4	71.2	93.2	93.9	8.2	10.5	10.5
Spokane .....	149.9	148.3	150.8	14.6	17.5	17.6	9.7	11.8	11.7
Tacoma .....	175.7	189.0	186.9	17.6	23.1	23.4	10.0	12.2	12.5
<b>WEST VIRGINIA</b> .....	772.9	784.8	784.2	65.6	109.6	120.0	8.5	14.0	15.3
Charleston .....	124.8	126.0	125.0	8.7	12.2	13.6	7.0	9.7	10.9
Huntington—Ashland <sup>1</sup> .....	124.8	126.5	126.6	11.3	17.5	18.6	9.1	13.8	14.7
Parkersburg—Marietta <sup>1</sup> .....	73.4	74.9	74.3	6.8	9.4	10.1	9.2	12.6	13.6
Wheeling <sup>1</sup> .....	82.6	82.4	83.4	8.4	11.4	12.7	10.2	13.8	15.3
<b>WISCONSIN</b> .....	2,376.6	2,484.3	2,476.3	165.9	255.2	260.0	7.0	10.3	10.5
Appleton—Oshkosh .....	148.5	153.9	154.2	9.1	15.6	15.2	6.2	10.1	9.9
Eau Claire .....	58.7	60.7	60.7	3.7	5.2	5.2	6.2	8.6	8.6
Green Bay .....	91.2	97.0	96.6	6.2	8.8	8.6	6.8	9.1	8.9
Janesville—Beloit .....	70.7	72.7	74.7	9.3	9.1	11.0	13.1	12.5	14.8
Kenosha .....	56.7	63.6	61.9	8.8	6.9	6.2	15.5	10.9	10.0
La Crosse .....	49.4	51.4	51.5	3.1	4.1	4.2	6.3	8.0	8.2
Madison .....	187.1	192.8	193.9	8.6	12.0	12.4	4.6	6.2	6.4
Milwaukee .....	717.7	743.0	745.8	47.2	86.4	87.7	6.6	11.6	11.8
Racine .....	86.1	87.2	86.7	8.3	12.4	12.5	9.6	14.2	14.4
<b>WYOMING</b> .....	252.6	257.8	253.4	9.2	14.0	16.1	3.6	5.4	6.3

<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.)

becomes available. Data refer to place of residence.

p = preliminary.

N.A. = not available.

NOTE: Estimates for 1981 have been benchmarked to 1981 Current Population Survey annual averages. Except in the 10 States and 2 areas designated by footnote 2, estimates for 1982 are provisional and will be revised when new benchmark information

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 Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The report "Employment and Unemployment in States and Local Areas" is published monthly through GPO and is available on microfiche only on a subscription basis.



# Explanatory Notes

## 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 60,000 households, representing 629 areas in 1,148 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 earnings, and average weekly earnings 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 day of the 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 definitions and coverage, sources of information, methods of collection, and estimating procedures. Sampling variability and response errors are additional reasons for discrepancies. The major factors which have a differential effect on levels and trends of the two series are as follows.

#### Employment

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

*Multiple jobholding.* The household approach provides information on the work status of the population without duplication, since each

person is classified as employed, unemployed, or not in the labor force. Employed persons holding more than one job are counted only once and are classified according to the job at which they worked the greatest number of hours during the survey week. In the figures based on establishment reports, 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.

#### 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, production or nonsupervisory 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.

#### Earnings

The household survey measures median earnings of wage and salary workers in all occupations and industries in both the private and public sectors. Data refer to the usual earnings received from the worker's sole or primary job. Data from the establishment survey generally refer to mean earnings of production and related workers in mining and manufacturing, construction workers in construction, and nonsupervisory employees in private service-producing industries. For a comprehensive discussion of the household survey earnings series, see "Technical Description of the Quarterly Data on Weekly Earnings from the Current Population Survey," BLS Bulletin 2113.

### 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, 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 (some workers in agriculture, domestic services, and religious organizations, and self employed and unpaid family workers). 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 \$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*.

*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 Census from its censuses or annual sample survey 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 the 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 the 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, however, obtained from the Department of Defense.

Each month about 60,000 occupied units are eligible for interview. About 2,500 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 or 5 percent. In addition to the 60,000 occupied units, there are 11,000 sample units in an average month which are visited but found to be vacant or otherwise not to be enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from 1 month to the next and one-half to be common with the same month a year earlier.

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.

Over the period November 1978 to April 1979 the sample was again enlarged by 9,000 households. These supplementary households were added to the 56,000 household sample in January 1980.

Beginning in May 1981, the sample size was cut by about 6,000 occupied housing units. The reduction did not affect the ability to

publish reliable State and local estimates and had practically no effect on the reliability of national estimates.

Beginning in January 1982, the sample was expanded by about 100 households in 15 counties. The expanded sample provides sufficient coverage of counties added to 7 of the 30 largest SMSA's redefined in 1973. The additional sample had practically no effect on the reliability of national or State estimates.

## 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 home housework, and painting or repairing own home) or volunteer work for religious, charitable, and similar organizations.

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

Duration of unemployment represents the length of time (through the current survey week) during which persons classified as unemployed had been continuously looking for work. For persons on layoff, duration of unemployment represents the number of full weeks since the termination of their most recent employment. A period of 2 weeks or more during which a person was employed or ceased looking for work is considered to break the continuity of the present period of seeking work. 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 a public or private employment agency or to an employer directly, seeking assistance from friends or relatives, placing or answering ads, or utilizing some "other" method. Examples of the "other" category include being on a union or professional register, obtaining assistance from a community organization, or waiting at a designated pick-up point.

The *civilian labor force* comprises the total of all civilians classified as employed or unemployed in accordance with the criteria described

above. The "total labor force" also includes members of the Armed Forces stationed either in the United States or abroad.

The *unemployment rate* represents the number unemployed as a percent of the civilian labor force. This measure can also be computed for groups within the labor force classified by sex, age, marital status, race, occupation, industry, 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.

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

Persons who worked 35 hours or more in the survey week are designated as working "full time," correspondingly 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 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 a 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 the peak season. Persons on full-time schedules include, in addition to those working 35 hours or more, those who worked from 1 to 34 hours for noneconomic reasons and usually work full time.

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.

*White and black and other* are terms used to describe the race of workers. The "black-and-other category," includes all persons who identified themselves in the enumeration process to be other than white. At the time of the 1980 Census of Population, 83 percent of the black-and-other civilian noninstitutional population 16 years and over were black; the remainder were primarily American Indians, Alaskan Natives, and Asians and Pacific Islanders. 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 of other Hispanic origin or descent.

*Major activity: going to school and major activity: other* are terms used to describe whether the activity of young persons during the reference week is primarily one of going to school or not. Statistics on major activity are published every month in table A-7 for 16- to 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.

The *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 in-

teragency 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.

*Usual weekly earnings* data are provided from responses to the question "How much does . . . USUALLY earn per week at this job before deductions?" Included are any overtime pay, commissions, or tips usually received. Data refer to the sole or primary job of wage and salary workers. The term "usual" is as perceived by the respondent. If the respondent asks for a definition of "usual," interviewers are instructed to define the term as more than half the weeks worked during the past 4 or 5 months.

A *household* consists of all persons—related family members and all unrelated persons—who occupy a housing unit. A house, an apartment, a group of rooms, or a single room are regarded as a housing unit when occupied or intended for occupancy as separate living quarters.

A *householder* is the person (or one of the persons) in whose name the housing unit is owned or rented. The term is never applied to either husbands or wives in married-couple families but only to persons in families maintained by either men or women without a spouse.

*Family* refers to a group of two or more persons residing together who are related by blood, marriage, or adoption; all such persons are considered as members of one family even though they may include a "subfamily," that is, a married couple or a parent-child group related by blood or marriage to the householder and sharing the living quarters. The counts of families used in this volume refer to primary families only, that is, all persons in the household who are related to the householder. Families are classified either as married-couple families or as those maintained by women or men without spouses. Data on the earnings of families exclude all those in which there is no wage or salary earner or in which the husband, wife, or other persons maintaining the family is either self-employed or in the Armed Forces.

## 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. A detailed discussion of this and other definitional changes introduced at that time including estimates of 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*.

### Noncomparability of labor force levels

Before the changes introduced in 1967, the labor force data were not comparable for three earlier periods: (1) Beginning in 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 in 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 in 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 in 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- to 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 was to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households had race determined by the household respondent and seven-eighths of the sample households had race determined by interviewer observation. It was not until January 1980 that the entire sample had race determined by the household respondent. The new procedure had no significant effect on the estimates.

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 "Change in the Estimation Procedure for the Current Population Survey beginning in January 1979" in the February 1979 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.

Beginning in January 1982, the second-stage ratio adjustment methodology was changed in the CPS estimation procedure. The new procedure is described in the *Estimating Methods* section. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in "Revisions in the Current Population Survey in January 1982" in the February 1982 issue of *Employment and Earnings*. In addition, current population estimates used in the second-stage estimation procedure are derived from information obtained from the 1980 census, rather than the 1970 census.

This change caused substantial increases in total population and estimates of persons in all labor force categories. Rates on labor force characteristics, however, remained virtually unchanged. Some 30,000 labor force series were adjusted back to 1970 to avoid major breaks in series. The adjustment procedure used is also described in the February 1982 article referenced above. The revisions did not, however, smooth out the breaks in series occurring between 1972 and 1979 that are described above, and data users should make allowances for them in making certain data comparisons.

#### **Changes in the 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. The purpose of this review, the most comprehensive since the 1940 census, was to reduce the size of larger 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 650,000 in operatives to an increase of 570,000 in service workers, much of which resulted from a shift between these two groups; the nonfarm laborers group increased by 420,000, and changes in other groups amounted to 220,000 or less.

An additional major group was created by splitting the operatives category into two: Operatives, except transport, and transport equipment operatives. Separate data for these two groups first became available in January 1972. At the same time, several changes in titles, as well as in order of 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 occupational 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 8 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 noncontiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated with the existing design. A coverage improvement sample, composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 60,000 new construction house units, 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. In January 1980 another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added to the existing sample. A sample reduction of about 6,000 units was implemented in May 1981. In January 1982, about 100 occupied units were added to provide sufficient coverage in counties added to SMSA's which were redefined in 1973.

Table A provides a description of some aspects of the CPS sample design in use during the different data collection periods. For a more detailed account of the history of the CPS sample design, see *The Current Population Survey: Design and Methodology*, Technical Paper No. 40, Bureau of the Census, U.S. Department of Commerce, 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. 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 and 1980 expansions, almost all sample persons within the 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 4 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 survey 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 629 sample areas is 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 second, 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 proportions in the categories described below are adjusted to the distribution of independent current estimates of the civilian noninstitutional population in the same categories. The second-stage ratio estimate is performed in order to increase the reliability of the estimates and is carried out in two 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 of the adjustment is applied to all sample persons and is a weighting to nationwide independent population estimates of the civilian noninstitutional population 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 the State population and of the national age-sex-race categories will be virtually equal to the independent population estimates. This second stage adjustment procedure incorporates changes instituted in January 1982. The nature of these changes is discussed in detail in "Revisions in the

**Table A. Characteristics of the CPS sample**

Time period	Number of sample areas	Households eligible		Households visited not eligible
		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 .....	<sup>1</sup> 330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963 .....	<sup>2</sup> 333	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 Dec. 1979 .....	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981 .....	629	62,200	2,800	12,000
May 1981 to present .....	629	57,800	2,500	11,000

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

Current Population Survey Beginning in January 1982" in the February 1982 issue of *Employment and Earnings*.

The 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, 1980 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, use 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.

Beginning with the January 1982 estimates, the independent national controls used for the age-sex-race groups in the final step of the second-stage ratio adjustment are prepared by carrying forward the April 1, 1980, total population by age, race, and sex, taking account of the subsequent aging of the population, fertility, mortality, and net immigration, and then subtracting the estimate for the institutional population and Armed Forces. The April 1, 1980, total population was computed by adding together the resident population, consistent with that published for the 1980 census in *Advance Reports*, Series PHC80-V, and the Armed Forces overseas, as compiled from Department of Defense reports.

Data on births and deaths between April 1, 1980, and the estimate date are based on tabulation of vital statistics for the resident population made by the National Center for Health Statistics and data on deaths of military personnel overseas from the Department of Defense. Estimates of net civilian immigration are based on data provided by the Immigration and Naturalization Service, the Department of Defense, the Office of Personnel Management, and the Puerto Rico Planning Board. The civilian noninstitutional population for the estimate date is derived by subtracting the Armed Forces and the institutional population from the total population including Armed Forces overseas. The institutional population is computed by applying institutional proportions derived from the 1970 census to the total population, including Armed Forces overseas for the estimate date. All computations described above are performed in cells defined by single year of age, race, and sex. The independent national controls totals are then obtained by collapsing these cells into broader age groups for the population 16 years and older.

**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 quantify 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, Bureau of the Census, U.S. Department of Commerce.

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 varies 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. Bailar, *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 combined 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 1980 census.

Additional information on nonsampling error in the CPS appears in the paper, "An Error Profile: Employment as Measured by the Current Population Survey," by Camilla Brooks and Barbara 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, April 1973; and in the *The Current Population Survey, Design and Methodology*, Technical Paper No. 40, Bureau of the Census, U.S. Department of Commerce. This last document includes a comprehensive and up-to-date discussion of various sources of error, 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 enable 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 sample design, and an estimate and its estimated error were calculated from each sample, then:

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 one standard error below the estimate to one standard error above the estimate would include the average result of all possible samples.

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 volume reflect the sample design and estimation procedures in effect prior to the expansions for State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Second, 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 B and C show approximate standard errors for major employment status characteristics for monthly estimates and for changes for consecutive months. These standard errors are applicable to the level of the estimates in recent months.

Tables D through H provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table I contains factors for use with table H 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 J contains factors for use with tables D, F, H, and I 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 1956-66 period they should be multiplied by 1.22. Table K provides generalized standard errors for quarterly estimates of persons and families for use with the CPS earnings data.

*Standard errors for estimated totals.* Tables D and E 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 in a given month 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 D 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 68 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 the first column of table E 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, the quarterly average base is less than 60,000, or the annual average base is less than 35,000.

Tables F and G show 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 H and the factors in table I. First obtain the standard error from table H for the specific percentage and base. The generalized standard error is then calculated

**Table B. Standard errors for major employment status categories**

(In thousands)

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
Total, 16 years and over:		
Civilian labor force .....	208	161
Employed .....	229	175
Unemployed .....	122	123
Males, 20 years and over:		
Civilian labor force .....	113	95
Employed .....	131	114
Unemployed .....	84	85
Females, 20 years and over:		
Civilian labor force .....	167	124
Employed .....	168	128
Unemployed .....	71	74
Both sexes, 16-19 years:		
Civilian labor force .....	80	85
Employed .....	85	94
Unemployed .....	58	72
Black and other, 16 years and over:		
Civilian labor force .....	73	56
Employed .....	84	63
Unemployed .....	59	62
Males, 20 years and over:		
Civilian labor force .....	40	34
Employed .....	49	43
Unemployed .....	40	42
Females, 20 years and over:		
Civilian labor force .....	62	48
Employed .....	62	48
Unemployed .....	36	40
Both sexes, 16-19 years:		
Civilian labor force .....	33	37
Employed .....	31	36
Unemployed .....	28	30



by multiplying the standard error from table H by the appropriate factor from table I. 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 in a given month 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 H (0.09 percentage point). The appropriate factor from table I for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error on the estimated 3.6 percent is then approximately  $0.09 \times 1.26 = 0.1$  percentage point.

*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 percentages 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 J 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 J to obtain the approximate standard error for the average or change.

*Illustration.* For example, suppose that one is interested in the year-to-year change of a monthly unemployment rate. Let us assume 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 F (0.11 percentage point). The appropriate factor then from table J is 1.40. The approximate standard error on the change of 0.8 percent is then given by  $0.11 \times 1.40 = 0.15$  percentage point.

The approximate standard error of levels involving year-to-year change of quarterly estimates pertaining to CPS earnings data for persons and families may be obtained by using table K in conjunction with the following formula:

$$\text{Standard error of year-to-year change} = \sqrt{\left(\frac{\text{Standard error}}{X}\right)^2 + \left(\frac{\text{Standard error}}{Y}\right)^2 - 2(P)\left(\frac{\text{Standard error}}{X}\right)\left(\frac{\text{Standard error}}{Y}\right)}$$

where X is the estimate for one quarter and Y is the estimate for another quarter. The coefficient, P, is a measure of the correlation between the estimates X and Y resulting from the presence of some of the same respondents in the sample for each estimate. For consecutive year-to-year changes of quarterly estimates, the values of P are .30 for persons (total, white, and black) and .35 for families (total, white, and black). The respective values for estimates of Hispanics are .45 and .55.

*Illustration:*

Assume that in a given quarter the number of women employed as full-time wage and salary workers was 27,000,000 and in the same quarter a year later their number had increased to 29,000,000. Using linear interpolation in the eighth column of table K, the standard error of an estimate of 27,000,000 is 216,000; for 29,000,000 it is 221,000. Using the above formula, the standard error of the 2,000,000, year-to-year change is:

$$\sqrt{(216,000)^2 + (221,000)^2 - 2(.30)(216,000)(221,000)}$$

or about 259,000.

**Table C. Standard errors for unemployment rates by 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) .....	0.12	0.12	<b>OCCUPATION</b>		
Males, 20 years and over .....	.15	.15	Blue-collar workers—Continued		
Females, 20 years and over .....	.17	.18	Craft and kindred workers .....	0.33	0.37
Both sexes, 16-19 years .....	.57	.67	Operatives, except transport .....	.44	.50
White workers .....	.12	.12	Transport equipment operatives .....	.70	.77
Black (and other) workers .....	.46	.49	Nonfarm laborers .....	.71	.81
Married men, spouse present .....	.15	.16	Service workers .....	.32	.36
Married women, spouse present .....	.21	.23	Farm workers .....	.54	.62
Full-time workers .....	.12	.13	<b>INDUSTRY</b>		
Part-time workers .....	.32	.40	Nonagricultural private wage and		
Unemployed 15 weeks and over .....	.06	.07	salary workers .....	.13	.13
<b>OCCUPATION</b>			Construction .....	.59	.70
White-collar workers .....	.12	.13	Manufacturing .....	.27	.30
Professional and technical .....	.18	.20	Durable goods .....	.37	.41
Managers and administrators,			Nondurable goods .....	.39	.45
except farm .....	.20	.23	Transportation and public utilities .....	.38	.42
Sales workers .....	.36	.41	Wholesale and retail trade .....	.26	.29
Clerical workers .....	.23	.25	Finance and service industries .....	.17	.19
Blue-collar workers .....	.24	.26	Government workers .....	.20	.23
			Agricultural wage and salary workers .....	1.07	1.26

**Table D. Standard errors for estimates of monthly level**

(In thousands)

Estimated monthly level	Characteristic <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, or 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 E. Standard errors for estimates of month-to-month change**

(In thousands)

Estimated monthly level	Characteristic <sup>1</sup>							
	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	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 D.

<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 F. Standard errors for unemployment rates**

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	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	.96	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 G. Standard errors for month-to-month change in unemployment rates**

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	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 H. Standard errors for 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 the factors in table I to obtain the approximate standard error for a specific characteristic.

**Table I. Factors to be used with Table H to compute approximate standard errors for percentages and month-to-month change in percentages**

Characteristic	Factor		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 J. Factors to be used with Tables, D, F, H, and I to compute the approximate standard errors for levels, rates, and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages and change in yearly averages**

Characteristic	Factors				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or males .....	1.30	0.89	0.80	0.72	0.70
Females or teenagers (16-19 years) .....	1.30	.83	.80	.58	.70
Part time .....	1.40	.74	.80	.46	.70
Labor force data other than agricultural employment data and unemployment data:					
Total or white .....	1.30	.88	.88	.67	.70
Black and other or teenagers (16-19 years) .....	1.30	.82	.88	.57	.70
Part time .....	1.40	.74	.88	.46	.60
Unemployment:					
Total .....	1.40	.76	.88	.50	.65
Part time .....	1.40	.69	.88	.39	.54

**Table K. Standard errors for estimates of quarterly level**

(In thousands)

Estimated quarterly level	Characteristic								
	Total			Males				Females	
	Part-time workers	Total or full-time workers		Part-time workers	Total or full-time workers			Total, full-time, or part-time workers	
		Total or white	Black		Total	White	Black	Total or white	Black
10 .....	5	5	5	5	5	5	5	5	5
50 .....	11	12	12	11	12	12	12	11	11
75 .....	13	15	15	13	15	15	15	13	13
100 .....	15	17	17	15	17	17	17	15	15
150 .....	19	21	21	19	21	21	21	19	19
200 .....	22	24	24	22	24	24	24	22	21
250 .....	24	27	27	24	27	27	27	24	24
300 .....	26	30	30	26	30	30	29	26	26
500 .....	34	38	38	34	38	38	37	34	33
750 .....	42	47	46	42	47	47	45	42	41
1,000 .....	48	54	53	48	54	54	50	48	46
1,500 .....	59	66	63	59	66	66	59	59	56
2,000 .....	68	76	72	68	76	76	65	68	63
2,500 .....	76	85	79	75	84	84	69	75	69
3,000 .....	83	93	85	82	92	92	71	82	74
5,000 .....	107	119	100	105	117	116	64	105	85
7,500 .....	130	145	107	127	140	138	-	127	-
10,000 .....	149	165	102	144	157	155	-	145	-
15,000 .....	180	198	-	187	183	179	-	173	-
20,000 .....	205*	224	-	192	199	193	-	195	-
25,000 .....	226	244	-	207	209	199	-	211	-
30,000 .....	224	261	-	219	212	198	-	224	-
40,000 .....	273	286	-	236	201	174	-	242	-
50,000 .....	296	301	-	-	-	-	-	-	-
75,000 .....	331	304	-	-	-	-	-	-	-
100,000 .....	343	255	-	-	-	-	-	-	-

# Establishment Data (B and C tables)

## COLLECTION

Payroll reports provide current information on wage and salary employment, hours, and earnings in nonagricultural establishments, by industry and geographic location.

### Federal-State cooperation

Under cooperative arrangements, responding establishments report employment, hours, and earnings data to State agencies. State agencies mail the forms to the establishments and examine the returns for consistency, accuracy, and completeness. The States use the reported data to prepare State and area series and also send the reported data to the BLS (Washington Office) for use in preparing the national series. This avoids a duplicate reporting burden on establishments, and together with the use of similar estimating techniques at the national and State levels, promotes increased comparability between estimates.

### Shuttle schedules

Form BLS 790—Report on Employment, Payroll, and Hours is the name of the data collection schedule. 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 total number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, employment, payroll, and hours of production and related workers or nonsupervisory workers for pay period which includes the 12th of the month.

## CONCEPTS

### Industrial classification

Establishments reporting on Form BLS 790 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. Since January 1980, this information is collected on a supplement to the quarterly unemployment insurance tax reports filed by employers. 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, and earnings for the Nation and for States and areas are classified in accordance with the 1972 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget. The BLS tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sector.

### 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, on 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 on layoff, on leave without pay, on strike for the entire period, or who were hired but have not yet reported 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 private service-producing industries.

*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, trucking, hauling, maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., power plant), record-keeping, and other services closely associated with the above production operation.

*Construction workers* include the following employees in the construction division: Working supervisors, qualified craft workers, mechanics, apprentices, helpers, laborers, etc., engaged in new work, alterations, demolition, repair, maintenance, etc., whether working at the site of construction or working in shops or yards at jobs (such as precutting and preassembling) ordinarily performed by members of the construction trades.

*Nonsupervisory employees* include employees (not above the working supervisory level) such as office and clerical workers, repairers, salespersons, operators, drivers, physicians, lawyers, accountants, nurses, social workers, research aides, teachers, drafters, photographers, beauticians, musicians, restaurant workers, custodial workers, attendants, line installers and repairers, laborers, janitors, guards, and 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, vacations, and for sick leave when pay is received directly from the firm.

*Overtime hours* covers 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 do 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 estimates are derived by multiplying average weekly hours estimates by average hourly earnings estimates. 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 or her holiday pay plus straight-time pay for hours worked that day, no overtime hours would be reported.

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

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

"Real" earnings, or earnings in constant dollars, are calculated from the earnings averages for the current month using a deflator derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPJ-W).

*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. 537-40). 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 average of the 12 monthly figures for 1977. For basic industries, 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 industry aggregation, hour and payroll aggregates are the sum of the component aggregates.

*Indexes of diffusion of changes in number of employees on nonagricultural payrolls.* These indexes measure the percent of industries which posted increases in employment over the specified time span. The indexes are calculated from 186 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*.

## ESTIMATING METHODS

The principal features of the procedure used to estimate employment for the establishment 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 L.

### 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 in table L, may be a whole industry or a size stratum, a region stratum, or a size stratum of a region within an industry.

### Benchmark adjustments

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

**Table L. Summary of methods for computing industry statistics on employment, hours, and earnings**

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-employee 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.
<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
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 by 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.

<sup>1</sup> The estimates result from multiplying the product shown by bias adjustment factors to compensate for the underrepresentation of newly formed enterprises in the sample and other bias sources.

<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 compensate 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.



various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1981 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by States agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonagricultural payrolls 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 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 1981 benchmark adjustment is shown in table M.

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 which a high proportion of total employment is concentrated in relatively few establishments, a large percent 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

**Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1981**

Industry division	Benchmark, March 1981	Estimate, March 1981	Percent difference
Total .....	90,371,000	90,720,000	-0.4
Mining .....	1,107,000	1,084,000	2.1
Construction .....	3,934,000	4,048,000	-2.9
Manufacturing .....	20,085,000	20,016,000	-4
Transportation and public utilities .....	5,102,000	5,095,000	.1
Wholesale and retail trade .....	20,096,000	20,290,000	-1.0
Finance, insurance, and real estate .....	5,239,000	5,263,000	-.5
Services .....	18,340,000	18,287,000	.3
Government .....	16,468,000	16,493,000	-2

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 fluctuation 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 statistics program, with its 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 the reference period, 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 N 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.

### 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

**Table N. Approximate size and coverage of BLS employment and payrolls sample, March 1981<sup>1</sup>**

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total .....	177,500	35,740,500	40
Mining .....	2,400	387,000	35
Construction .....	17,300	677,000	17
Manufacturing .....	45,000	10,951,000	55
Transportation and public utilities:			
Railroad transportation (ICC) .....	37	459,500	92
Other transportation and public utilities .....	8,100	2,717,000	53
Wholesale and retail trade .....	43,900	3,398,000	17
Finance, insurance, and real estate .....	12,200	1,950,000	37
Services .....	28,700	3,787,000	21
Government:			
Federal <sup>2</sup> .....	4,900	2,769,000	100
State and local .....	15,000	8,645,000	63

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

<sup>2</sup> National estimates of Federal employment by agency are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 4,900 reports covering about 60 percent of employment in Federal establishments.

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

The hours and earnings estimates for basic estimating 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 O and for individual industries with the specified number of employees in table P. 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.

**Table O. Average benchmark 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>	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment .....	0.3	-	-
Total private .....	.3	0.1	0.2
Mining .....	1.3	.5	.5
Construction .....	2.2	.2	.3
Manufacturing .....	.4	.1	.1
Durable goods .....	.4	.1	.1
Nondurable goods .....	.5	.1	.1
Transportation and public utilities .....	.4	.7	.4
Trade .....	.5	.1	.2
Wholesale .....	.7	.2	.3
Retail .....	.6	.2	.2
Finance, insurance, and real estate .....	.5	.2	.4
Services .....	.7	.4	.8
Government <sup>3</sup> .....	.5	-	-

<sup>1</sup> The average percent revision in employment for the following benchmarks: 1971, 1974, 1978, 1979, 1980 and 1981.

<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, prior to the March 1979 revision, samples for State and local government benchmarked to a quinquennial census of government conducted by the Bureau of the Census.

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 P.

**Table P. 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.

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table Q 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 0.1 of an hour for weekly hours and 1 cent for hourly earnings.

#### STATISTICS FOR STATES AND AREAS

State and area employment, hours, and earnings data are collected and prepared by State agencies in cooperation with BLS.

**Table Q. Errors of preliminary employment estimates**

Category	Root-mean-square error of—	
	Monthly level	Month-to-month change
INDUSTRY DIVISIONS		
Total nonagricultural employment .....	84,000	72,000
Goods-producing .....	39,000	34,000
Mining .....	5,000	5,000
Construction .....	18,000	16,000
Manufacturing .....	31,000	28,000
Durable two-digit industries .....	6,300	5,700
Nondurable two-digit industries .....	4,200	3,900
Service-producing .....	63,000	57,000
Transportation and public utilities .....	13,000	14,000
Wholesale and retail trade .....	30,000	27,000
Finance, insurance, and real estate .....	8,000	7,000
Services .....	31,000	25,000
Government .....	50,000	38,000

NOTE: Division level data are based on differences from January 1976 through December 1981. Two-digit industry data are based on differences from January 1981 through February 1982.

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 in a summary volume published annually by the BLS.

## PRODUCTIVITY DATA

Tables C-9, C-10, and C-11 are compiled by the Bureau of Labor Statistics from establishment data and from estimates of compensation and gross national product supplied by the U.S. Department of Commerce and the Federal Reserve Board.

### Definitions

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

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

*Compensation per hour* includes wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. The data also include an estimate of wages, salaries, and sup-

plementary payments for the self-employed, except for nonfinancial corporations, in which there are no self-employed.

*Real compensation per hour* is compensation per hour adjusted to eliminate the effect of changes in the Consumer Price Index 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 household 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 the 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 hours data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics.

# State and Area Unemployment Data (D 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 of determining eligibility of an area for benefits under Federal programs such as the Comprehensive Employment and Training Act, the Public Works Employment Act, and the Public Workers 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 areas and New York City, are sufficiently reliable to be used directly from the CPS. For a description of the CPS concepts see "Household Data," above.

Monthly employment and unemployment estimates in the remaining 40 States and 214 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 residences as used in the CPS. Factors for adjusting from place of work to place of residence have been developed for the major categories of employ-

ment 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 unemployment insurance (UI) laws; (2) those previously employed in industries not covered by these laws; and (3) those who were entering the labor force for 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 employment 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 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 of 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 6 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 of the geographic areas in the LMA's exhausts 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 the 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 third-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 CPS annual averages.

## Seasonal Adjustment

Over the course of a year, the size of the Nation's labor force, the levels of employment and unemployment, and other measures of labor market activity undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting these statistics from month to month. These adjustments make it easier to observe the cyclical and other nonseasonal movements in the series. In evaluating 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 are also 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 program used for these series are based on 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 method is given in the publication, *The X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

Beginning in January 1980, the BLS introduced two major modifications in the seasonal adjustment methodology for data from the household survey. First, the data are being seasonally adjusted with a new procedure called X-11 ARIMA, which was developed at Statistics Canada as an extension of the existing standard X-11 method. A detailed description of the procedure appears in *The X-11 ARIMA Seasonal Adjustment Method*, by Estela Bee Dagum, Statistics Canada Catalogue No. 12-564-E, February 1980. The X-11 procedure was originally developed at the Bureau of the Census and had been used by the BLS to seasonally adjust labor force series since 1973. Tests have shown that use of the X-11 ARIMA procedure,

which essentially place more emphasis on recent data, provides better seasonal adjustments than does the X-11 method alone.

The second change is that seasonal factors are now being calculated for use during the first 6 months of the year rather than for the entire year. In July of each year, the BLS will calculate and publish (in *Employment and Earnings*) a new set of seasonal factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years will continued to be made once a year, at the beginning of each calendar year. However, as a result of the revisions to the estimates for 1970-81 based on 1980 census population counts, revisions to seasonally adjusted series in early 1982 were carried back to 1970.

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 official 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 data for selected labor force series based on the experience through December 1981, new seasonal adjustment factors to be used to calculate the overall unemployment rate for the first 6 months of 1982, and a description of the current seasonal adjustment methodology are published in the February 1982 issue of *Employment and Earnings*. Revised seasonally adjusted data covering the 1970-81 revision period for a broader range of labor force series also appear in the February 1982 issue of this publication. Many additional series, which are either components or aggregates of the series presented, are available from the BLS upon request.

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 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 :

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# U.S. Department of Labor Bureau of Labor Statistics

<b>REGION I - BOSTON</b> John Fitzgerald Kennedy Federal Bldg Government Center - Room 1607 A Boston, Mass. 02107	<b>REGION II - NEW YORK</b> Supt. 340 1575 Broadway New York, N.Y. 10016	<b>REGION III - PHILADELPHIA</b> P.O. Box 13309 Philadelphia, Pa. 19101	<b>REGION IV - ATLANTA</b> Suite 530 1371 Peachtree Street, N.E. Atlanta, Ga. 30367
<b>REGION V - CHICAGO</b> 9th Floor 230 N. Dearborn Street Chicago, Ill. 60604	<b>REGION VI - DALLAS</b> 2nd Floor 555 Griffin Square Dallas, Tex. 75202	<b>REGION VII - KANSAS CITY</b> 35th Floor 1111 Walnut Street Kansas City, Mo. 64106	<b>REGION IX - SAN FRANCISCO</b> Box 36017 450 Golden Gate Avenue San Francisco, Calif. 94102

## COOPERATING STATE AGENCIES

### Current Employment Statistics Program (CES) and State and Local Area Unemployment Statistics Program (SLAUS)

BLS Region	State Agency
IV ALABAMA	Research and Statistics Div., Department of Industrial Relations, Industrial Relations Building, Room 427, Montgomery 36130
X ALASKA	Employment Security Division, Department of Labor, P.O. Box 37000, Juneau 99802
IX ARIZONA	Department of Economic Security, P.O. Box 6133, Phoenix 85005
VI ARKANSAS	Employment Security Division, Department of Labor, P.O. Box 2983, Employment Security Building, Little Rock 72203
IX CALIFORNIA	Employment Data and Research Div., Employment Development Department, P.O. Box 1679, Sacramento 95808 (CES)
VIII CALIFORNIA	Division of Employment and Training, 1278 Linton Street, Berkeley 94703
I CONNECTICUT	Employment Security Division, Labor Department, 200 Folly Brook Boulevard, Wetherfield 06109
II DELAWARE	Department of Labor, University Plaza Office Complex, Bldg. D, Chapman Rd., Route 273, Newark 19713
III DIST. OF COL.	Division of Labor Market Information, Research and Analysis, Department of Employment Services, 500 G Street, N.W., Room 411, Washington 20001
IV FLORIDA	Bureau of Research and Analysis, Department of Labor and Employment Security, Caldwell Building, Tallahassee 32301
IX GEORGIA	Department of Labor, 253 Washington Street, N.W., Atlanta 30334
IX HAWAII	Department of Labor and Human Resources, 1111 Ala Moana Boulevard, Honolulu 96813
X IDAHO	Department of Employment Security, P.O. Box 17707
V ILLINOIS	Bureau of Employment Security, 1500 South Dearborn Street, 15th Floor, Chicago 60605
V INDIANA	Employment Security Division, Department of Labor, Indiana 46204
VI IOWA	Department of Job Service, 600 East 10th Street, Des Moines 50319
VII KANSAS	Division of Employment, Department of Labor, 100 North 14th Street, Topeka 66603
IV KENTUCKY	Department of Labor Relations, 101 Market Street, 10th West, Frankfort 40621
VI LOUISIANA	Department of Labor, 1000 Keybank Building, 1000 Poydras Street, New Orleans 70112
I MAINE	Division of Employment Security, 100 State Street, Augusta 04430
III MARYLAND	Research and Analysis Division, Department of Labor, 1208 North Eutaw Street, Baltimore 21201
I MASSACHUSETTS	Division of Employment Security, 100 State Street, Boston, Commonwealth Center, Boston 02114
V MICHIGAN	Research and Statistics Division, Department of Labor, 1330 Woodward Avenue, Detroit 48202
V MINNESOTA	Department of Economic Security, 500 North 5th Street, Room 831, St. Paul 55104
IV MISSISSIPPI	Employment Security Department, P.O. Box 100, Jackson 39201
VII MISSOURI	Div. of Employment Security, Department of Labor and Industrial Relations, P.O. Box 59, Jefferson City 65101
VIII MONTANA	Employment Security Division, Department of Labor, P.O. Box 1728, Helena 59601
VI NEBRASKA	Division of Employment Security, Department of Labor, 1000 East 10th Street, Lincoln 68502
IX NEVADA	Employment Security Department, 1000 North Las Vegas Blvd., Las Vegas 89102
I NEW HAMPSHIRE	Department of Employment Security, 1000 Massachusetts Street, Concord 03301
II NEW JERSEY	Division of Planning and Administration, Department of Labor, 1000 State Street, Room 202, Trenton 08625
VI NEW MEXICO	Employment Security Department, Department of Labor, P.O. Box 1928, Albuquerque 87103
II NEW YORK	Division of Research and Statistics, Department of Labor, 1000 Empire Building 12, Albany 12201
IX NORTH CAROLINA	Labor Market Information, State Department of Labor, 1000 Commerce Center, P.O. Box 75903, Raleigh 27611
VIII NORTH DAKOTA	Employment Security Department, 1117 Washington, Bismarck 58505
V OHIO	Division of Research and Statistics, Department of Labor Services, 143 S. Front St., Columbus 43216
VI OKLAHOMA	Research and Planning Department, Department of Labor, 1400 W. Rogers Memorial Office Building, Oklahoma City 73107
X OREGON	Employment Division, Department of Human Resources, 875 Union Street, S.E., Salem 97311
III PENNSYLVANIA	Research and Statistics Division, Department of Labor and Industrial Relations, 500 and Fourth Streets, Harrisburg 17121
II PUERTO RICO	Department of Labor, 474 Bulevar de las Americas, San Juan 00917
I RHODE ISLAND	Department of Employment Security, 100 State Street, Providence 02901
IV SOUTH CAROLINA	Employment Security Department, P.O. Box 6078, Columbia 29216
VIII SOUTH DAKOTA	Department of Labor, P.O. Box 100, Rapid City 57709
IV TENNESSEE	Department of Employment Security, 186 Commerce Building, North, Room 819, Nashville 37219
VI TEXAS	Employment Commission, 1011 Fidelity Building, Austin 78701
VIII UTAH	Department of Employment Security, 1000 East 10th Street, Salt Lake City 84111
I VERMONT	Department of Employment and Training, P.O. Box 488, Montpelier 05602
III VIRGINIA	Division of Research and Statistics, Department of Labor and Industry, P.O. Box 12064, Richmond 23241 (CES) Employment Security Division, P.O. Box 1358, Richmond 23211 (SLAUS)
II VIRGIN ISLANDS	Division of Employment Security, P.O. Box 1017, St. Thomas 00804 (CES)
X WASHINGTON	Employment Security Department, 1014 1st Street, Olympia 98504
III WEST VIRGINIA	Div. of Labor and Consumer Services, Department of Employment Security, 117 California Avenue, Charleston 25305
V WISCONSIN	Bureau of Research and Statistics, Department of Labor and Human Relations, P.O. Box 7944, Madison 53707
VIII WYOMING	Employment Security Department, P.O. Box 1700, Cheyenne 82001