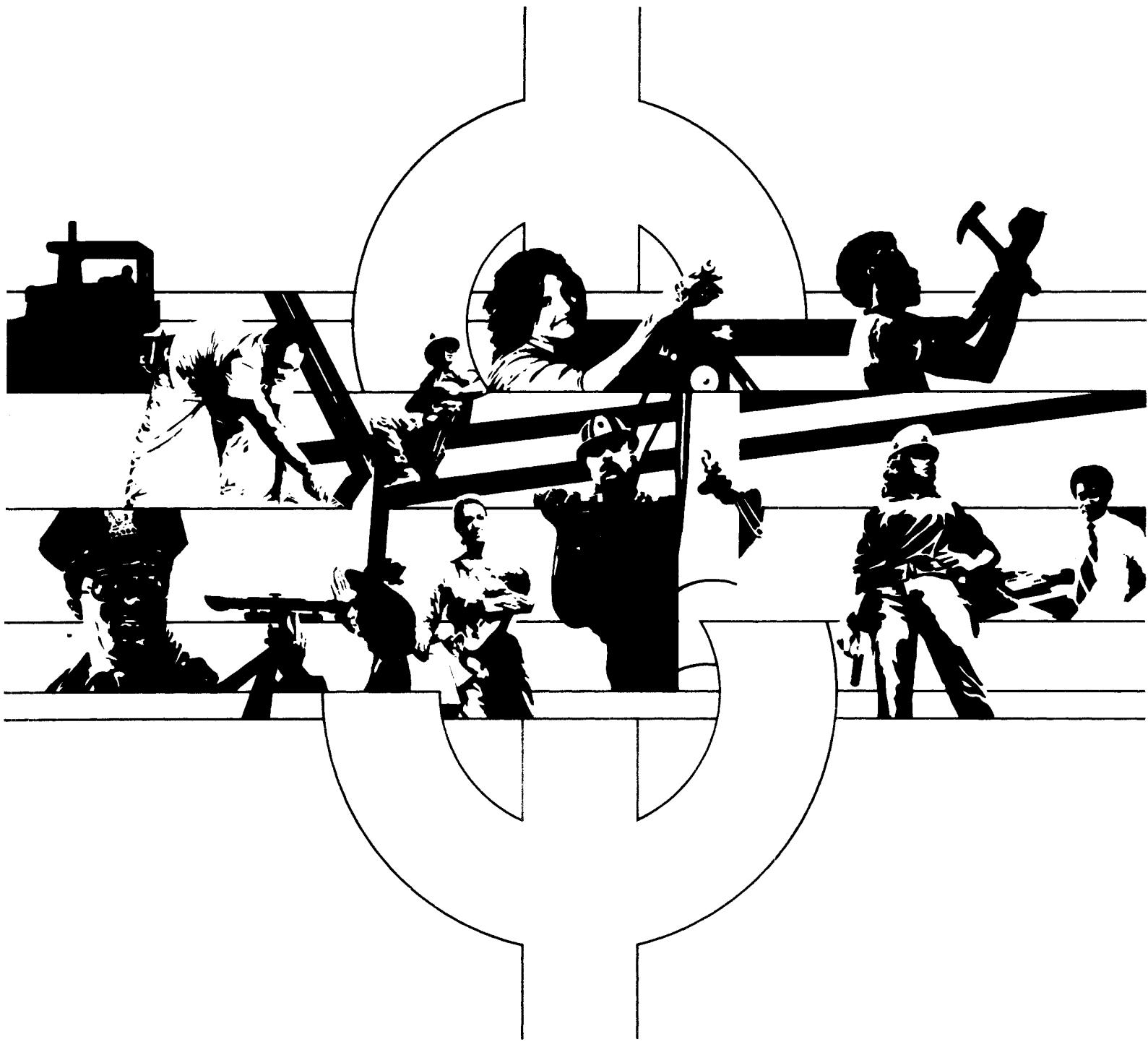


Employment and Earnings

November 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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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

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Industry detail (final)	Mar.
Women employment detail (final)	Mar.
National data adjusted to new benchmarks	June ¹
Revised historical national data adjusted to new benchmarks	Supplement ²
Revised seasonally adjusted series	June ³
State and area annual averages	May
Area definitions	May

State and area unemployment data

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

² Month of publication of annual supplement varies. The latest supplement was published in June 1982.

³ Issue varies. Latest revised data introduced June 1982.

Employment and Earnings

Vol. 29 No. 11 November 1982

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

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Employment and Unemployment Developments, October 1982

Unemployment rose in October and employment declined after adjustment for seasonality. The Nation's unemployment rate increased from 10.1 to 10.4 percent over the month and was substantially above the July 1981 pre-recession low of 7.2 percent.

Total employment—as measured by the monthly survey of households—fell by 630,000 in October to 99.1 million. Nonfarm payroll employment—as measured by the monthly survey of establishments—dropped by 265,000 to 88.9 million, as job losses continued in durable goods manufacturing.

Unemployment

The number of unemployed persons rose by 290,000 in October to 11.6 million, seasonally adjusted, following an increase of 450,000 in the previous month. Since July 1981, unemployment has risen by 3.7 million, with virtually all of the increase occurring among persons laid off or permanently separated from their jobs. Persons who have lost their jobs now account for over 63 percent of total unemployment, compared with about 50 percent in July a year ago. (See tables A-33 and A-39.)

The overall unemployment rate, at 10.4 percent in October, was 0.3 percentage point higher than in September. The rate has increased fairly steadily over the past 15 months from a pre-recession low of 7.2 percent. Nearly all of the October rise in joblessness occurred among adult men and women, whose rates reached 9.8 and 8.6 percent, respectively; the rate for teenagers was about unchanged at 24.0 percent. The increase for adult workers was reflected in higher unemployment rates for married men (7.6 percent), married women (7.9 percent), and full-time workers (10.5 percent). Among race-ethnic groups, the unemployment rate for white workers rose to 9.3 percent, while rates for Hispanics and blacks, at 15.2 and 20.2 percent, respectively, remained at record levels. Virtually every worker group has posted substantial increases in unemployment from their pre-recession levels. (See tables A-33, A-35, and A-36.)

The average (mean) duration of unemployment rose over the month to 17.2 weeks, as the number of long-term unemployed (those jobless 15 weeks or more) continued to increase. Median duration was about un-

changed at 9.6 weeks, after rising in September. (See table A-37.)

The number of nonfarm workers on part-time schedules for economic reasons held about steady at 6.6 million in October, following a sharp rise in September. This number was 2.2 million above the July 1981 level. (See table A-42.)

Total employment and the labor force

Total employment dropped by 630,000 in October to 99.1 million, seasonally adjusted. Since July 1981, employment has dropped by 1.8 million, and the proportion of the population employed, at 56.6 percent in October, has declined by almost 2 full percentage points. Declines in the ratio occurred among all three major age-sex groups but were sharpest among adult men and teenagers.

The civilian labor force declined by 340,000 in October to 110.6 million, seasonally adjusted, following an increase of the same magnitude a month earlier. Over the year, the labor force expanded by 1.5 million persons, with adult women accounting for 1.0 million of the gain and adult men another 850,000. A labor force decrease for teenagers of 375,000 stemmed primarily from a declining population. (See table A-33.)

Industry payroll employment

Nonagricultural payroll employment declined by 265,000 in October to 88.9 million, after seasonal adjustment. Since July 1981, the number of nonfarm jobs has fallen by 2.5 million. Most of the over-the-month cutbacks were in the goods-producing sector, especially in the durable goods manufacturing industries where employment dropped by 200,000. (See table B-4.)

Among the durable goods industries, the most sizable losses occurred in the five major metal and metal-using industries—machinery, primary metals, fabricated metals, transportation equipment, and electrical equipment. Within nondurable goods, several industries registered small employment declines. Manufacturing employment was down 230,000 over the month and 2.0 million since July 1981. Jobs in mining and construction also continued to decline.

Employment in the service-producing sector was little different from September, as changes among the component industries were generally small and offsetting. There was, however, a continued reduction in trade, where job losses have totaled 180,000 in the past 3 months.

Hours of work

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls, at 34.7 hours in October, seasonally adjusted, edged down 0.1 hour over the month. The factory workweek was unchanged at 38.7 hours, after having dropped by half an hour between July and September. Factory overtime was down 0.1 hour to 2.2 hours in October. (See table C-6.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls declined 0.6 percent in October to 103.2 (1977 = 100). The manufacturing index dropped 1.8 percent over the month to 83.9 and has declined by 16 percent since July 1981. (See table C-7.)

Hourly and weekly earnings

Average hourly earnings increased 0.4 percent in October, while average weekly earnings edged up by 0.1 percent, seasonally adjusted. Before adjustment for seasonality, average hourly earnings rose 2 cents to \$7.78, 36 cents above the year-earlier level. Average weekly earnings, at \$270.74, were up 69 cents over the month and \$9.56 over the year. (See tables C-1 and C-8.)

The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 150.6 (1977 = 100) in October, seasonally adjusted, 0.4 percent higher than in September. For the 12 months ended in October, the increase (before seasonal adjustment) was 6.1 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 1.2 percent during the 12-month period ended in September. (See table C-8.)

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 noninsti- tutional popula- tion	Total labor force		Civilian labor force					Not in labor force	
				Total	Employed		Unemployed			
		Number	Percent of popula- tion		Total	Agri- culture	Nonagri- cultural indus- ties	Number	Percent of labor force	
Annual averages										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,143	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	59.5	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	7,150	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953 ¹	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	59.4	55,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	51.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	50.6	66,929	64,071	5,947	53,123	2,859	4.3	45,335
1958.....	116,363	70,275	50.4	67,639	63,036	5,585	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	50.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960 ²	119,759	72,142	50.2	69,628	65,778	5,458	50,313	3,852	5.5	47,617
1961.....	121,343	73,031	50.2	70,459	65,746	5,200	50,546	4,714	6.7	48,312
1962.....	122,981	73,442	50.7	70,614	66,702	4,944	51,759	3,911	5.5	49,539
1963.....	125,154	74,571	50.5	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	50.6	73,091	69,305	4,523	54,782	3,786	5.2	51,394
1965.....	129,236	77,178	50.7	74,455	71,088	4,361	55,725	3,366	4.5	52,058
1966.....	131,180	78,893	50.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	50.6	77,347	74,372	3,844	71,527	2,975	3.8	52,527
1968.....	135,562	82,272	50.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	51.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,272	85,959	51.3	82,771	78,678	3,463	75,215	4,093	4.9	54,315
1971.....	143,033	87,198	51.3	84,382	79,367	3,394	75,972	5,016	5.9	55,834
1972 ²	146,574	89,484	51.1	87,034	82,153	3,484	78,669	4,882	5.6	57,091
1973 ¹	149,423	91,756	51.4	89,429	85,064	3,470	81,594	4,365	4.9	57,667
1974.....	152,349	94,179	51.9	91,949	86,794	3,515	83,279	5,156	5.6	58,171
1975.....	155,333	95,955	51.3	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	62.9	99,009	92,017	3,283	88,734	6,991	7.1	60,025
1978 ²	164,027	104,368	63.5	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	109,670	100,397	3,368	97,030	8,273	7.6	61,460
Monthly data, seasonally adjusted ³										
1981:										
October..	172,966	111,170	64.3	109,012	100,343	3,378	96,965	8,669	8.0	61,797
November..	173,155	111,430	64.4	109,272	100,172	3,372	95,803	9,100	8.3	61,724
December..	173,330	111,348	64.2	109,184	99,613	3,209	95,404	9,571	8.8	61,982
1982:										
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	54.1	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	95,144	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	54.8	110,666	100,117	3,488	96,629	10,549	9.5	61,350
June.....	174,364	112,364	64.4	113,191	99,764	3,357	96,436	10,427	9.5	61,999
July.....	174,544	112,702	64.5	113,522	99,732	3,460	96,272	10,790	9.8	61,842
August...	174,707	112,840	64.5	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

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

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

**HOUSEHOLD DATA
HISTORICAL**

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1972 to date

(Numbers in thousands)

Sex, year, and month	Total nonin- stitutional popula- tion	Total labor force		Civilian labor force						Not in labor force
				Total	Employed			Unemployed		
		Number	Percent of popula- tion		Total	Agri- culture	Nonagri- cultural indus- ties	Number	Percent of labor force	
MALES										
1972 ¹	70,241	55,961	79.7	53,555	50,896	2,849	48,047	2,659	5.0	14,280
1973 ¹	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	2,924	49,032	4,442	7.9	15,993
1976.....	75,798	59,212	78.1	57,174	53,138	2,744	53,334	4,036	7.1	16,585
1977.....	77,211	60,414	78.2	59,396	54,728	2,671	52,057	3,667	6.3	16,797
1978.....	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	73.4	60,726	57,607	2,685	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
<i>Annual averages</i>										
1981:										
October..	82,807	64,040	77.3	62,064	57,266	2,715	54,551	4,798	7.7	18,767
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
1982:										
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	56,658	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	77.3	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	77.3	62,353	56,192	2,795	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
<i>Annual averages</i>										
1981:										
1982:										
January..	76,333	33,522	43.9	33,479	31,257	635	30,622	2,222	6.6	42,811
February..	77,855	34,855	44.8	34,804	32,715	622	32,093	2,089	6.0	43,000
March....	79,379	36,278	45.7	36,211	33,769	595	33,173	2,441	6.7	43,101
April....	80,949	37,565	46.4	37,475	33,989	584	33,404	3,486	9.3	43,336
May.....	82,496	39,089	47.3	38,983	35,615	588	35,027	3,369	8.6	43,406
June....	83,955	40,728	43.5	40,613	37,289	612	36,677	3,324	8.2	43,227
July....	85,459	42,755	50.0	42,631	39,569	669	33,900	3,061	7.2	42,703
August...	86,983	44,375	51.0	44,235	41,217	661	40,556	3,018	6.8	42,608
September.	88,507	45,646	51.6	45,487	42,117	656	41,461	3,370	7.4	42,861
October..	89,796	46,873	52.2	46,596	43,000	667	42,333	3,696	7.9	42,922
<i>Monthly data, seasonally adjusted²</i>										
1981:										
1982:										
October..	90,159	47,129	52.3	46,948	43,077	663	42,414	3,871	8.2	43,030
November..	90,259	47,272	52.3	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
1983:										
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	43,123
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	42,855
October..	91,272	48,055	52.7	47,865	43,179	645	42,533	4,686	9.9	43,217

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

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

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	October 1932										
	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	
					Number	Percent of labor force					
MALES											
16 years and over	64,373	76.3	62,375	56,203	6,172	9.9	19,424	378	4,921	1,431	12,694
16 to 21 years	7,846	63.4	7,237	5,666	1,571	21.7	4,535	7	3,988	22	518
16 to 19 years	4,415	54.9	4,182	3,147	1,035	24.7	3,633	--	3,277	9	348
16 to 17 years	1,625	42.0	1,613	1,165	449	27.8	2,241	--	2,140	--	100
18 to 19 years	2,790	66.7	2,567	1,981	586	22.8	1,393	--	1,136	10	248
20 to 64 years	58,112	89.0	56,347	51,296	5,052	9.0	7,205	198	1,644	1,067	4,297
20 to 24 years	9,283	85.2	8,503	7,123	1,380	15.2	1,619	13	1,174	44	387
25 to 54 years	41,626	94.2	40,543	37,346	3,298	9.1	2,558	112	462	594	1,339
25 to 29 years	9,671	94.1	9,276	8,191	1,086	11.7	506	17	268	61	251
30 to 34 years	8,844	95.5	8,579	7,869	710	8.3	421	11	106	84	220
35 to 39 years	7,441	96.3	7,244	6,706	538	7.4	288	20	43	63	151
40 to 44 years	5,835	94.7	5,746	5,367	379	5.5	330	19	25	104	181
45 to 49 years	4,990	93.0	4,961	4,669	291	5.9	378	28	15	129	207
50 to 54 years	4,845	90.1	4,837	4,544	293	5.1	535	18	6	153	358
55 to 64 years	7,203	70.4	7,201	6,827	374	5.2	3,028	72	8	428	2,520
55 to 59 years	4,402	81.3	4,401	4,157	243	5.5	981	33	6	200	743
60 to 64 years	2,801	57.3	2,300	2,670	130	4.7	2,047	39	2	229	1,777
65 years and over	1,846	17.7	1,846	1,760	85	4.6	8,586	181	--	355	8,049
65 to 69 years	1,045	26.5	1,045	995	50	4.8	2,882	44	--	95	2,743
70 years and over	801	12.3	301	765	36	4.4	5,704	137	--	261	5,306
White											
16 years and over	56,523	77.5	54,987	50,232	4,755	8.6	15,395	294	3,843	1,147	11,102
16 to 21 years	6,742	65.5	6,272	5,086	1,186	18.9	3,541	7	3,149	16	368
16 to 19 years	3,870	58.0	3,685	2,873	812	22.0	2,333	--	2,544	8	252
16 to 17 years	1,466	45.9	1,457	1,084	373	25.6	1,730	1	1,645	--	34
18 to 19 years	2,404	69.1	2,228	1,789	439	19.7	1,073	--	899	8	168
20 to 64 years	50,981	89.8	49,531	45,756	3,875	7.8	5,810	142	1,298	842	3,529
20 to 24 years	7,890	86.2	7,310	6,310	1,000	13.7	1,263	12	963	32	255
25 to 54 years	36,567	95.1	35,799	33,229	2,569	7.2	1,883	79	332	457	1,015
25 to 34 years	16,096	95.7	15,597	14,210	1,387	8.9	721	19	288	104	310
35 to 44 years	11,710	96.3	11,473	10,780	693	6.0	451	26	32	139	254
45 to 54 years	8,760	92.5	8,729	8,239	489	5.6	711	34	12	215	450
55 to 64 years	6,524	71.0	6,523	6,217	306	4.7	2,655	51	3	353	2,258
55 to 59 years	3,979	82.5	3,978	3,777	201	5.1	841	27	3	167	644
60 to 64 years	2,545	58.2	2,544	2,439	105	4.1	1,825	24	--	186	1,614
65 years and over	1,671	17.7	1,571	1,603	58	4.1	7,772	152	1	297	7,321
Black and other											
16 years and over	7,850	72.1	7,388	5,971	1,417	19.2	3,039	84	1,078	284	1,592
16 to 21 years	1,104	52.5	965	580	385	39.9	934	--	838	7	150
16 to 19 years	545	39.6	497	274	223	44.8	830	--	733	2	96
16 to 17 years	159	23.9	158	81	76	48.3	511	--	495	--	15
18 to 19 years	386	54.7	339	193	147	43.2	320	--	237	2	80
20 to 64 years	7,131	83.6	6,716	5,540	1,177	17.5	1,394	55	346	225	768
20 to 24 years	1,393	79.7	1,193	813	380	31.9	356	1	211	12	132
25 to 54 years	5,060	88.2	4,845	4,117	729	15.0	576	33	130	139	374
25 to 34 years	2,419	86.9	2,259	1,850	409	18.1	396	9	85	41	171
35 to 44 years	1,566	90.4	1,517	1,293	225	14.8	157	13	37	29	88
45 to 54 years	1,074	84.2	1,069	974	95	8.9	202	11	8	67	115
55 to 64 years	678	65.2	578	611	68	10.0	353	21	5	75	262
55 to 59 years	422	75.1	422	380	42	10.0	140	6	3	32	99
60 to 64 years	256	53.5	256	230	25	10.0	222	15	2	43	163
65 years and over	175	17.6	175	157	17	10.0	815	29	--	58	728

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	October 1932										
	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	
					Number	Percent of labor force					
FEMALES											
16 years and over	48,582	53.2	48,392	43,522	4,771	9.9	42,639	31,151	4,792	964	5,793
16 to 21 years	6,838	56.6	6,774	5,435	1,338	19.8	5,253	1,340	3,845	18	350
16 to 19 years	3,947	50.4	3,924	3,036	889	22.6	3,386	465	3,160	11	250
16 to 17 years	1,472	39.2	1,471	1,152	319	21.7	2,278	105	2,105	2	66
18 to 19 years	2,475	60.5	2,453	1,883	570	23.2	1,608	360	1,055	9	183
20 to 64 years	43,404	63.5	43,237	39,399	3,839	8.9	24,313	20,471	1,626	433	2,392
20 to 24 years	7,558	70.0	7,466	6,439	1,027	13.8	3,234	1,893	1,017	19	306
25 to 54 years	30,923	67.5	30,848	28,270	2,577	8.4	14,884	12,986	589	236	1,073
25 to 29 years	7,353	70.7	7,304	6,520	783	10.7	3,353	2,544	256	23	230
30 to 34 years	6,443	68.1	6,425	5,807	618	9.6	3,023	2,594	145	26	159
35 to 39 years	5,488	68.8	5,483	5,094	389	7.1	2,490	2,204	94	44	149
40 to 44 years	4,455	69.2	4,453	4,122	332	7.4	1,982	1,756	47	35	145
45 to 49 years	3,736	65.7	3,736	3,499	237	5.3	1,349	1,734	29	45	171
50 to 54 years	3,448	59.1	3,447	3,228	220	6.4	2,388	2,084	19	63	222
55 to 64 years	4,924	42.0	4,924	4,689	234	4.8	6,794	5,592	20	179	1,003
55 to 59 years	3,012	49.8	3,012	2,844	169	5.6	3,336	2,553	12	84	387
60 to 64 years	1,911	33.7	1,911	1,846	66	3.4	3,758	3,039	8	95	616
65 years and over	1,231	8.1	1,231	1,187	43	3.5	13,890	10,215	5	520	3,151
65 to 69 years	769	15.7	769	736	33	4.3	4,142	3,229	4	84	825
70 years and over	461	4.5	461	452	10	2.1	9,748	6,986	--	436	2,327
White											
16 years and over	41,626	53.0	41,492	37,913	3,579	9.6	36,974	27,618	3,687	793	4,876
16 to 21 years	5,985	59.5	5,941	4,935	1,006	15.9	4,052	813	2,981	16	242
16 to 19 years	3,496	54.0	3,479	2,791	689	19.8	2,981	362	2,432	10	173
16 to 17 years	1,343	43.4	1,343	1,077	266	19.8	1,754	89	1,604	2	59
18 to 19 years	2,152	63.7	2,137	1,714	423	19.8	1,228	273	829	8	119
20 to 64 years	37,026	63.3	36,908	34,054	2,853	7.7	21,446	17,912	1,250	346	1,939
20 to 24 years	6,443	71.3	6,379	5,673	705	11.1	2,588	1,563	799	17	209
25 to 54 years	26,268	67.3	26,214	24,258	1,956	7.5	12,752	11,269	437	179	866
25 to 34 years	11,556	69.3	11,508	10,507	1,001	8.7	5,128	4,484	290	41	313
35 to 44 years	8,493	68.8	8,488	7,906	581	6.9	3,345	3,439	104	60	242
45 to 54 years	6,219	62.2	6,213	5,844	374	5.0	3,779	3,346	44	79	311
55 to 64 years	4,316	41.4	4,316	4,124	192	4.4	6,107	5,380	15	149	863
55 to 59 years	2,625	49.1	2,625	2,484	141	5.4	2,724	2,318	9	65	333
60 to 64 years	1,691	33.3	1,691	1,640	51	3.0	3,393	2,762	7	84	530
65 years and over	1,105	8.1	1,105	1,068	37	3.3	12,546	9,344	5	437	2,750
Black and other											
16 years and over	6,956	54.3	6,901	5,709	1,192	17.3	5,715	3,533	1,105	171	907
16 to 21 years	852	41.5	833	500	333	39.9	1,201	227	865	1	108
16 to 19 years	452	33.3	445	245	200	44.9	905	103	728	1	72
16 to 17 years	129	19.7	128	75	53	41.5	525	16	501	--	8
18 to 19 years	323	46.0	317	170	147	46.3	330	87	227	1	64
20 to 64 years	6,379	64.8	6,330	5,345	985	15.6	3,456	2,559	376	87	483
20 to 24 years	1,115	63.3	1,087	766	321	29.5	647	330	220	1	96
25 to 54 years	4,655	68.5	4,635	4,012	621	13.4	2,132	1,717	152	55	207
25 to 34 years	2,240	70.3	2,221	1,821	400	13.0	947	754	111	8	75
35 to 44 years	1,449	69.3	1,448	1,309	139	9.6	627	521	37	18	50
45 to 54 years	966	63.4	966	883	82	8.5	558	442	4	30	82
55 to 64 years	608	47.0	508	566	42	7.0	587	512	4	31	140
55 to 59 years	387	55.4	387	360	28	7.2	312	235	3	20	54
60 to 64 years	221	37.0	221	206	15	6.6	375	277	2	11	86
65 years and over	126	8.5	126	119	7	5.3	1,345	971	--	83	392

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	
	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
MALES								
16 years and over	63,785	64,373	77.0	75.8	51,808	62,375	76.5	76.3
16 to 19 years	4,736	4,415	57.0	54.9	4,467	4,182	55.6	53.5
16 to 17 years	1,833	1,625	45.2	42.0	1,814	1,614	44.9	41.9
18 to 19 years	2,903	2,790	68.4	65.7	2,653	2,567	66.4	64.8
20 to 24 years	9,280	9,233	85.2	85.2	8,521	8,503	84.1	84.0
25 to 54 years	40,743	41,626	94.3	94.2	39,797	41,643	94.2	94.1
25 to 34 years	18,263	18,515	95.1	94.7	17,624	17,855	95.0	94.6
35 to 44 years	12,601	13,276	95.5	95.6	12,330	12,990	95.4	95.5
45 to 64 years	9,879	9,835	91.4	91.5	9,842	9,798	91.3	91.5
65 to 64 years	7,098	7,203	59.8	70.4	7,097	7,201	59.8	70.4
65 to 69 years	4,378	4,402	80.8	81.8	4,377	4,401	80.8	81.8
60 to 64 years	2,720	2,801	57.2	57.8	2,719	2,803	57.2	57.8
65 years and over	1,928	1,846	18.8	17.7	1,928	1,846	18.8	17.7
White								
16 years and over	56,302	56,523	77.8	77.5	54,779	54,987	77.3	77.0
16 to 19 years	4,226	3,870	60.9	58.0	4,015	3,685	59.6	56.8
16 to 17 years	1,694	1,466	49.9	45.9	1,678	1,457	49.7	45.7
18 to 19 years	2,532	2,404	71.3	69.1	2,337	2,228	69.6	67.5
20 to 24 years	7,975	7,990	86.3	86.2	7,414	7,310	85.4	85.3
25 to 54 years	35,889	36,357	95.1	95.1	35,140	35,799	95.0	95.0
25 to 34 years	15,964	16,396	96.0	95.7	15,472	15,597	95.9	95.6
35 to 44 years	11,082	11,710	96.0	96.3	10,856	11,473	95.9	96.2
45 to 64 years	8,844	8,750	92.3	92.5	8,812	8,729	92.2	92.5
65 to 64 years	6,448	6,524	70.5	71.0	6,446	6,523	70.5	71.0
65 to 69 years	3,957	3,979	81.6	82.6	3,956	3,978	81.6	82.6
60 to 64 years	2,490	2,545	58.0	58.2	2,490	2,544	58.0	58.2
65 years and over	1,764	1,671	19.0	17.7	1,764	1,671	19.0	17.7
Black and other								
16 years and over	7,483	7,850	71.5	72.1	7,029	7,388	70.3	70.9
16 to 19 years	510	545	37.4	39.6	452	497	34.7	37.4
16 to 17 years	139	159	20.8	23.8	136	158	20.5	23.6
18 to 19 years	371	336	53.5	54.7	316	339	49.4	51.5
20 to 24 years	1,305	1,393	79.4	79.7	1,107	1,193	76.5	77.0
25 to 54 years	4,854	5,360	89.0	88.2	4,657	4,845	88.6	87.8
25 to 34 years	2,299	2,419	89.2	88.8	2,153	2,258	88.5	88.1
35 to 44 years	1,519	1,565	92.2	90.4	1,474	1,517	92.0	90.1
45 to 64 years	1,035	1,074	84.4	84.2	1,030	1,069	84.3	84.1
65 to 64 years	650	578	63.2	65.2	650	678	63.2	65.1
65 to 69 years	421	422	74.4	75.1	421	422	74.4	75.1
60 to 64 years	229	256	49.4	53.5	229	256	49.4	53.5
65 years and over	164	175	16.9	17.6	164	175	16.9	17.6

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	
	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
FEMALES								
16 years and over	47,617	48,532	52.8	53.2	47,436	48,392	52.7	53.1
16 to 19 years	4,041	3,947	50.0	50.4	4,014	3,924	49.8	50.2
16 to 17 years	1,521	1,472	38.6	39.2	1,520	1,471	38.6	39.2
18 to 19 years	2,520	2,475	60.8	60.6	2,494	2,453	60.5	60.4
20 to 24 years	7,669	7,558	71.0	70.0	7,581	7,466	70.7	69.8
25 to 54 years	29,842	30,923	66.5	67.5	29,777	30,848	66.5	67.5
25 to 34 years	13,362	13,796	68.4	69.4	13,303	13,729	68.3	69.3
35 to 44 years	9,342	9,942	68.2	69.0	9,336	9,936	68.2	69.0
45 to 54 years	7,138	7,134	61.5	62.4	7,137	7,183	61.5	62.4
55 to 64 years	4,867	4,924	41.8	42.0	4,867	4,924	41.8	42.0
55 to 59 years	3,085	3,012	50.7	49.8	3,085	3,012	50.7	49.8
60 to 64 years	1,781	1,911	32.1	33.7	1,781	1,911	32.1	33.7
65 years and over	1,198	1,231	8.1	8.1	1,198	1,231	8.1	8.1
White								
16 years and over	40,913	41,525	52.5	53.0	40,783	41,492	52.5	52.9
16 to 19 years	3,555	3,496	53.0	54.0	3,536	3,479	52.9	53.9
16 to 17 years	1,379	1,343	42.5	43.4	1,378	1,343	42.4	43.4
18 to 19 years	2,176	2,152	63.0	63.7	2,158	2,137	62.8	63.5
20 to 24 years	6,574	6,443	72.5	71.3	6,511	6,379	72.3	71.1
25 to 54 years	25,437	26,268	66.3	67.3	25,389	26,214	66.3	67.3
25 to 34 years	11,234	11,556	68.1	69.3	11,191	11,508	68.1	69.2
35 to 44 years	8,010	8,493	68.1	68.8	8,006	8,488	68.1	68.8
45 to 54 years	6,193	6,219	61.4	62.2	6,192	6,218	61.4	62.2
55 to 64 years	4,277	4,316	41.2	41.4	4,277	4,316	41.2	41.4
55 to 59 years	2,730	2,625	50.5	49.1	2,730	2,625	50.5	49.1
60 to 64 years	1,547	1,591	31.1	33.3	1,547	1,691	31.1	33.3
65 years and over	1,070	1,105	8.0	8.1	1,070	1,105	8.0	8.1
Black and other								
16 years and over	6,703	6,956	54.5	54.9	6,653	6,901	54.4	54.7
16 to 19 years	486	452	35.2	33.3	478	445	34.8	33.0
16 to 17 years	142	129	20.5	19.7	142	128	20.5	19.7
18 to 19 years	344	323	49.9	46.0	336	317	49.4	45.5
20 to 24 years	1,095	1,115	63.1	63.3	1,070	1,087	62.5	62.7
25 to 54 years	4,405	4,655	67.8	68.6	4,388	4,635	67.7	68.5
25 to 34 years	2,128	2,240	69.6	70.3	2,112	2,221	69.4	70.1
35 to 44 years	1,332	1,449	68.8	69.8	1,331	1,448	68.8	69.3
45 to 54 years	945	965	62.8	63.4	945	965	62.8	63.4
55 to 64 years	590	608	46.7	47.0	590	608	46.7	47.0
55 to 59 years	355	387	51.7	55.4	355	387	51.7	55.4
60 to 64 years	234	221	40.6	37.0	234	221	40.6	37.0
65 years and over	128	126	9.0	8.6	128	126	9.0	8.6

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

[Numbers in thousands]

Sex and age	October 1932						Not in labor force
	Civilian labor force						
	Total	Employed		Unemployed			
		Total	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
TOTAL							
16 years and over	11,462	9,182	157	9,025	2,280	19.9	7,230
16 to 19 years	760	380	15	365	381	50.1	1,477
16 to 17 years	216	106	3	102	110	51.0	887
18 to 19 years	544	274	11	263	271	49.7	590
20 to 24 years	1,928	1,282	18	1,265	645	33.5	785
25 to 54 years	7,474	6,321	82	6,239	1,152	15.4	2,200
25 to 34 years	3,541	2,349	26	2,823	692	19.5	936
35 to 44 years	2,313	1,995	24	1,971	318	13.7	617
45 to 54 years	1,615	1,477	32	1,444	143	8.8	647
55 to 64 years	1,042	359	29	930	83	7.9	898
55 to 59 years	660	611	19	592	50	7.5	381
60 to 64 years	381	343	11	338	33	8.7	517
65 years and over	259	240	14	226	19	7.3	1,869
Males							
16 years and over	5,825	4,509	134	4,475	1,215	20.9	2,508
16 to 19 years	397	196	11	185	201	50.6	695
16 to 17 years	116	53	3	43	63	54.3	432
18 to 19 years	281	144	7	136	138	49.1	263
20 to 24 years	997	657	15	643	339	34.0	238
25 to 54 years	3,755	3,148	71	3,077	606	16.1	552
25 to 34 years	1,755	1,411	23	1,388	343	19.5	246
35 to 44 years	1,172	981	20	961	191	16.3	130
45 to 54 years	828	756	28	727	73	8.8	176
55 to 64 years	531	475	27	448	56	10.5	318
55 to 59 years	337	302	18	284	35	10.4	120
60 to 64 years	193	173	10	164	21	10.9	198
65 years and over	146	133	11	122	13	8.9	704
Females							
16 years and over	5,637	4,573	23	4,550	1,065	18.9	4,722
16 to 19 years	363	184	4	180	180	49.5	782
16 to 17 years	100	53	--	53	47	46.8	455
18 to 19 years	263	130	4	127	133	50.5	327
20 to 24 years	931	625	3	622	306	32.9	547
25 to 54 years	3,719	3,173	11	3,162	546	18.7	1,648
25 to 34 years	1,786	1,438	3	1,435	349	19.5	690
35 to 44 years	1,141	1,013	4	1,010	127	11.2	487
45 to 54 years	791	721	4	717	70	8.8	471
55 to 64 years	511	484	2	482	27	5.3	580
55 to 59 years	323	309	1	308	15	4.6	261
60 to 64 years	188	175	1	174	12	6.6	319
65 years and over	113	107	3	104	6	4.9	1,165

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

[Numbers in thousands]

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
TOTAL								
Total noninstitutional population	172,966	175,069	74,502	75,749	82,374	83,438	16,390	15,892
Total labor force	111,401	112,955	59,048	59,958	43,575	44,635	8,778	8,363
Percent of population	54.4	64.5	79.3	79.2	53.1	53.5	53.6	52.7
Civilian labor force	109,234	110,767	57,391	53,193	43,422	44,468	8,481	8,106
Employed	101,328	99,825	53,920	53,056	40,333	40,586	6,778	6,182
Agriculture	3,577	3,618	2,540	2,592	671	638	366	389
Nonagricultural industries	97,451	96,207	51,380	50,465	39,559	39,948	6,411	5,794
Unemployed	8,216	10,942	3,421	5,137	3,392	3,882	1,703	1,924
Percent of labor force	7.5	9.9	6.0	8.8	7.1	8.7	20.1	23.7
Not in labor force	61,565	62,114	15,454	15,791	38,499	38,803	7,613	7,519
White								
Total noninstitutional population	150,215	151,508	65,435	65,235	71,154	72,123	13,647	13,150
Total labor force	97,215	98,149	52,076	52,652	37,358	38,131	7,781	7,366
Percent of population	64.7	64.8	79.6	79.5	52.5	52.9	57.0	56.0
Civilian labor force	95,552	96,479	50,764	51,302	37,247	38,013	7,550	7,164
Employed	89,397	88,145	48,155	47,359	34,981	35,122	6,260	5,663
Agriculture	3,333	3,376	2,336	2,409	539	.598	357	369
Nonagricultural industries	85,064	84,768	45,819	44,950	34,342	34,525	5,903	5,294
Unemployed	6,165	8,334	2,609	3,943	2,265	2,890	1,290	1,501
Percent of labor force	5.5	8.6	5.1	7.7	5.1	7.6	17.1	20.9
Not in labor force	53,001	53,359	13,330	13,582	33,806	33,992	5,865	5,734
Black and other								
Total noninstitutional population	22,750	23,561	9,097	9,514	10,913	11,315	2,744	2,732
Total labor force	14,186	14,807	6,973	7,306	6,217	6,505	996	997
Percent of population	52.4	62.8	76.6	76.3	57.0	57.5	36.3	36.5
Civilian labor force	13,682	14,288	6,577	5,891	6,175	6,456	930	942
Employed	11,631	11,680	5,765	5,697	5,349	5,464	517	519
Agriculture	244	242	203	192	32	40	9	19
Nonagricultural industries	11,387	11,438	5,561	5,515	5,317	5,423	508	500
Unemployed	2,051	2,608	813	1,194	826	992	413	423
Percent of labor force	15.0	18.3	12.4	17.3	13.4	15.4	44.4	44.9
Not in labor force	9,554	8,754	2,124	2,209	4,593	4,811	1,747	1,735

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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	October 1932								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	24,471	12,381	12,091	20,320	10,282	10,037	4,152	2,098	2,053
Total labor force	14,684	7,846	6,838	12,727	5,782	5,985	1,957	1,134	852
Percent of population	60.0	53.4	56.6	62.6	65.6	59.6	47.1	52.6	41.5
Civilian labor force	14,011	7,237	6,774	12,212	6,272	5,941	1,798	955	833
Employed	11,101	5,666	5,435	10,021	5,086	4,935	1,080	580	500
Agriculture	582	430	101	532	460	92	30	21	9
Nonagricultural industries	10,519	5,185	5,334	9,459	4,626	4,883	1,050	559	491
Unemployed	2,909	1,571	1,338	2,191	1,186	1,036	718	385	333
Looking for full-time work	1,833	1,041	842	1,358	760	608	515	280	234
Looking for part-time work	1,027	530	496	823	425	398	203	105	98
Percent of labor force	20.3	21.7	19.8	17.9	18.9	16.9	39.9	39.9	39.9
Not in labor force	9,733	4,535	5,253	7,533	3,541	4,052	2,195	994	1,201
Major activity: going to school									
Civilian labor force	4,555	2,324	2,241	4,039	2,057	2,022	476	258	218
Employed	3,535	1,773	1,762	3,261	1,627	1,634	273	146	128
Agriculture	183	148	35	175	149	28	6	--	7
Nonagricultural industries	3,352	1,625	1,727	3,035	1,479	1,606	267	146	121
Unemployed	1,030	552	479	823	439	388	203	112	93
Looking for full-time work	89	53	36	55	41	25	23	12	11
Looking for part-time work	941	498	443	751	399	363	180	100	80
Percent of labor force	22.5	23.7	21.4	20.2	21.3	19.2	42.6	43.5	41.4
Not in labor force	7,833	3,988	3,845	6,130	3,149	2,981	1,703	838	865
Major activity: other									
Civilian labor force	9,445	4,912	4,533	8,123	4,205	3,918	1,322	708	615
Employed	7,566	3,893	3,673	6,750	3,459	3,301	807	434	372
Agriculture	339	332	67	375	311	64	23	21	2
Nonagricultural industries	7,157	3,561	3,607	6,384	3,147	3,237	783	413	370
Unemployed	1,879	1,019	860	1,354	746	618	515	273	242
Looking for full-time work	1,733	987	806	1,302	719	582	492	268	224
Looking for part-time work	85	32	54	52	27	35	24	5	18
Percent of labor force	19.9	20.8	19.0	16.8	17.7	15.8	39.0	38.6	39.4
Not in labor force	1,955	547	1,408	1,453	391	1,071	493	155	336

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

[Numbers in thousands]

Sex, age, and race	October 1982								
	Full-time labor force					Part-time labor force			
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time ¹	Unemployed (looking for part-time work)	
		Full- time schedules ¹	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
Both sexes, 16 years and over.....	94,205	78,651	6,407	9,147	9.7	16,562	14,767	1,795	10.8
16 to 21 years	8,336	5,173	1,274	1,883	22.6	5,674	4,648	1,027	18.1
16 to 19 years	3,790	1,983	773	1,034	27.3	4,316	3,426	893	20.6
16 to 17 years	548	203	145	196	35.7	2,537	1,965	572	22.5
18 to 19 years	3,242	1,775	628	838	25.9	1,779	1,461	318	17.9
20 years and over	90,415	75,633	5,633	8,113	9.3	12,246	11,341	906	7.4
20 to 24 years	13,430	10,057	1,224	2,149	16.0	2,539	2,281	258	10.2
25 years and over	76,984	66,611	4,409	5,964	7.7	9,707	9,060	648	6.7
25 to 54 years	64,849	55,845	3,615	5,389	8.3	6,642	6,155	487	7.3
55 years and over	12,135	10,767	794	576	4.7	3,066	2,905	161	5.3
Males, 16 years and over	57,145	48,575	3,115	5,455	9.5	5,230	4,513	717	13.7
16 to 21 years	4,559	2,871	647	1,041	22.8	2,678	2,148	530	19.8
16 to 19 years	2,091	1,123	398	570	27.3	2,091	1,626	465	22.2
20 years and over	55,054	47,451	2,718	4,885	8.9	3,139	2,887	252	8.0
20 to 24 years	7,450	5,572	614	1,263	17.0	1,053	936	117	11.1
25 years and over	47,604	41,873	2,104	3,622	7.6	2,086	1,951	135	6.5
25 to 54 years	39,768	34,844	1,687	3,238	8.1	875	815	60	6.9
55 years and over	7,836	7,035	416	385	4.9	1,212	1,136	75	6.2
Females, 16 years and over	37,060	30,075	3,291	3,692	10.0	11,332	10,254	1,078	9.5
16 to 21 years	3,777	2,308	628	842	22.3	2,996	2,500	496	16.6
16 to 19 years	1,699	860	376	464	27.3	2,225	1,800	425	19.1
20 years and over	35,361	29,215	2,916	3,228	9.1	9,107	8,454	654	7.2
20 to 24 years	5,980	4,484	610	886	14.8	1,486	1,345	141	9.5
25 years and over	29,380	24,732	2,306	2,342	8.0	7,622	7,109	512	6.7
25 to 54 years	25,081	21,001	1,929	2,151	8.5	5,767	5,340	426	7.4
55 years and over	4,299	3,731	377	191	4.4	1,855	1,768	86	4.6
White									
Males, 16 years and over	50,300	43,540	2,583	4,176	8.3	4,687	4,108	579	12.4
16 to 21 years	3,867	2,580	527	760	19.7	2,404	1,979	425	17.7
16 to 19 years	1,808	1,032	335	442	24.4	1,876	1,506	371	19.7
20 years and over	48,491	42,508	2,248	3,735	7.7	2,811	2,603	208	7.4
20 to 24 years	6,371	4,968	501	902	14.2	939	841	97	10.4
25 years and over	42,120	37,580	1,747	2,832	6.7	1,872	1,761	111	5.9
25 to 54 years	35,029	31,114	1,393	2,521	7.2	768	721	48	6.3
55 years and over	7,090	6,426	354	311	4.4	1,103	1,040	63	5.7
Females, 16 years and over	31,164	25,820	2,662	2,682	8.6	10,327	9,431	896	8.7
16 to 21 years	3,228	2,098	523	608	18.8	2,712	2,314	398	14.7
16 to 19 years	1,459	795	322	341	23.4	2,323	1,673	347	17.2
20 years and over	29,705	25,024	2,341	2,341	7.9	8,307	7,758	549	6.6
20 to 24 years	5,064	3,952	505	607	12.0	1,315	1,217	98	7.5
25 years and over	24,641	21,072	1,836	1,734	7.0	5,993	6,542	452	6.5
25 to 54 years	20,885	17,760	1,545	1,580	7.5	5,329	4,952	376	7.1
55 years and over	3,756	3,312	291	154	4.1	1,665	1,589	75	4.5
Black and other									
Males, 16 years and over	6,845	5,034	532	1,279	18.7	542	404	138	25.5
16 to 21 years	691	292	119	280	40.5	274	169	105	38.4
16 to 19 years	282	91	63	128	45.4	215	120	95	44.1
20 years and over	6,563	4,943	469	1,150	17.5	328	284	43	13.3
20 to 24 years	1,079	504	114	361	33.4	114	95	19	17.0
25 years and over	5,484	4,339	357	790	14.4	213	189	25	11.7
25 to 54 years	4,739	3,730	294	716	15.1	105	93	13	12.4
55 years and over	745	609	62	74	9.9	108	96	12	11.1
Females, 16 years and over	5,895	4,255	629	1,010	17.1	1,005	823	182	18.1
16 to 21 years	549	210	105	234	42.7	284	186	98	34.6
16 to 19 years	240	64	54	123	51.1	205	128	77	37.8
20 years and over	5,656	4,193	575	888	15.7	800	696	104	13.0
20 to 24 years	916	533	105	278	30.4	171	128	43	25.1
25 years and over	4,739	3,661	470	610	12.9	629	568	61	9.7
25 to 54 years	4,196	3,242	384	571	13.6	438	388	50	11.4
55 years and over	543	419	87	39	7.2	191	180	11	5.8

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

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

(Numbers in thousands)

Family relationship	October 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					
Total, 16 years and over.....	110,767	64.1	99,825	10,942	9.9	62,114	31,529	9,712	2,395	18,477
Husbands.....	39,987	80.1	37,431	2,556	6.4	9,957	148	245	831	8,733
With employed wife.....	22,263	92.0	21,014	1,249	5.6	1,927	56	139	267	1,465
With unemployed wife.....	1,930	93.7	1,571	359	18.6	130	3	10	36	82
With wife not in labor force.....	15,794	66.7	14,846	948	6.0	7,901	89	96	528	7,187
Wives.....	26,250	52.6	24,190	2,060	7.8	23,694	20,931	403	270	2,090
With employed husband.....	22,585	60.3	21,014	1,571	7.0	14,846	13,582	321	99	844
With unemployed husband.....	1,609	62.9	1,249	359	22.3	948	861	31	14	41
With husband not in labor force.....	2,057	20.7	1,927	130	6.3	7,901	6,488	51	157	1,205
Relatives in married-couple families.....	13,610	61.2	11,132	2,478	18.2	8,616	872	6,119	273	1,352
18 to 19 years.....	5,447	51.6	4,274	1,174	21.5	5,100	112	4,653	12	324
20 to 24 years.....	5,298	75.2	4,427	871	16.4	1,750	125	1,337	34	254
25 years and over.....	2,865	61.9	2,431	433	15.1	1,766	635	129	227	774
Females who maintain families.....	5,812	60.7	5,128	684	11.8	3,766	2,887	159	103	617
Relatives in families maintained by females.....	4,801	56.5	3,605	1,196	24.9	3,689	793	1,659	238	1,000
18 to 19 years.....	1,278	45.1	845	433	33.9	1,558	75	1,306	5	171
20 to 24 years.....	1,537	71.4	1,115	423	27.5	617	124	303	16	173
25 years and over.....	1,986	56.7	1,645	340	17.1	1,514	594	50	217	656
Males who maintain families.....	1,778	74.5	1,611	168	9.4	607	31	34	70	472
Relatives in families maintained by males.....	1,525	60.9	1,203	322	21.1	981	386	288	62	244
18 to 19 years.....	321	55.8	216	104	32.6	254	10	206	1	36
20 to 24 years.....	425	76.2	337	88	20.8	133	29	59	1	43
25 years and over.....	779	56.7	650	130	16.7	594	347	23	60	165
Persons living alone.....	10,419	53.9	9,709	711	6.8	8,924	4,899	247	455	3,324
Males.....	5,400	71.5	4,923	476	8.8	2,157	126	138	199	1,695
Females.....	5,020	42.6	4,785	235	4.7	6,767	4,773	109	256	1,629
All others ¹	6,585	77.8	5,816	767	11.6	1,880	582	558	93	645

¹ 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	
	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
Total, 16 years and over.....	4,279	6,172	6.9	9.3	3,937	4,771	8.3	9.9
Married, spouse present.....	1,642	2,690	4.3	6.6	1,622	2,135	6.2	8.0
Widowed, divorced, or separated.....	439	726	8.9	13.1	786	881	8.4	9.5
Single (never married).....	2,148	2,756	13.3	17.4	1,529	1,754	12.6	14.1
White, 16 years and over.....	3,287	4,755	6.0	8.6	2,878	3,579	7.1	8.6
Married, spouse present.....	1,342	2,227	3.6	6.0	1,357	1,795	5.8	7.5
Widowed, divorced, or separated.....	330	536	7.3	11.8	578	617	7.7	8.3
Single (never married).....	1,615	1,992	12.1	14.8	943	1,167	9.4	11.4
Black and other, 16 years and over.....	992	1,417	14.1	19.2	1,059	1,192	15.9	17.3
Married, spouse present.....	300	463	8.0	11.7	265	340	9.7	11.7
Widowed, divorced, or separated.....	159	189	15.1	18.8	208	264	11.4	14.2
Single (never married).....	533	764	24.2	31.7	586	588	27.9	27.6
Total, 20 to 64 years of age.....	3,360	5,052	6.1	9.0	3,038	3,839	7.2	8.9
Married, spouse present.....	1,586	2,606	4.1	6.6	1,546	2,049	6.1	7.9
Widowed, divorced, or separated.....	466	707	8.3	13.3	740	839	8.6	9.8
Single (never married).....	1,308	1,738	11.7	18.8	751	951	9.0	10.8
White, 20 to 64 years of age.....	2,567	3,875	5.2	7.8	2,226	2,853	6.2	7.7
Married, spouse present.....	1,295	2,157	3.7	6.1	1,290	1,716	5.7	7.4
Widowed, divorced, or separated.....	319	521	7.5	12.0	539	581	7.9	8.6
Single (never married).....	953	1,197	10.1	12.2	397	555	5.9	7.9
Black and other, 20 to 64 years of age.....	794	1,177	12.4	17.5	813	985	13.4	15.6
Married, spouse present.....	291	449	8.0	11.7	257	332	9.6	11.7
Widowed, divorced, or separated.....	147	185	14.7	19.3	200	258	11.5	14.4
Single (never married).....	356	541	20.3	28.2	355	395	21.7	23.0

A-11. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
Total, 16 years and over	3,216	10,942	7.5	9.9	6.9	9.9	8.3	9.9
White-collar workers	2,377	3,003	4.3	5.3	2.7	4.1	5.6	6.3
Professional and technical	469	653	2.7	3.7	2.2	3.4	3.4	3.9
Managers and administrators, except farm	330	434	2.3	3.6	2.2	3.2	4.2	4.7
Sales workers	314	413	4.7	5.9	3.2	4.9	6.3	7.1
Clerical workers	1,264	1,504	6.4	7.5	4.9	7.2	6.7	7.6
Blue-collar workers	3,350	4,896	9.7	14.3	9.2	13.7	12.0	16.9
Craft and kindred workers	965	1,285	7.2	9.5	7.3	9.7	5.8	7.2
Carpenters and other construction craft workers	498	589	11.7	13.9	11.8	13.9	9.0	13.3
All other	467	696	5.1	7.5	5.0	7.6	5.4	6.6
Operatives, except transport	1,337	2,176	11.5	19.3	10.5	19.2	13.1	19.4
Transport equipment operatives	255	397	6.5	10.5	6.8	10.5	4.6	9.7
Nonfarm laborers	753	1,038	14.4	18.2	14.3	18.4	15.2	16.7
Construction laborers	204	299	20.6	27.7	20.0	27.2	(1)	(1)
All other	549	739	13.0	15.0	12.8	16.1	13.8	15.4
Service workers	1,400	1,645	9.4	10.7	9.2	10.9	9.5	10.5
Private household	85	55	7.5	4.8	(1)	(1)	7.4	4.6
All other	1,315	1,590	9.3	11.2	9.2	10.9	9.8	11.4
Farm workers	165	175	5.3	5.7	4.7	4.7	7.9	10.3
No previous work experience	914	1,223	--	--	--	--	--	--
16 to 19 years	620	859	--	--	--	--	--	--
20 to 24 years	171	225	--	--	--	--	--	--
25 years and over	123	140	--	--	--	--	--	--

¹ 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	
	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
Total, 16 years and over	100.0	100.0	7.5	9.9	6.9	9.9	8.3	9.9
Nonagricultural private wage and salary workers	74.4	77.4	7.5	10.4	7.2	10.8	8.2	10.0
Mining	1.0	1.8	6.7	18.0	6.5	20.8	7.7	2.6
Construction	8.7	8.6	13.9	13.3	14.1	18.3	11.4	18.9
Manufacturing	22.7	26.8	8.0	13.2	7.0	12.6	10.2	14.4
Durable goods	13.4	17.8	7.8	14.8	7.2	14.5	9.4	15.5
Lumber and wood products .....	.9	1.0	10.3	15.4	10.9	16.4	10.7	10.4
Furniture and fixtures .....	.8	1.0	10.5	18.4	8.4	17.0	15.5	21.7
Stone, clay, and glass products .....	.7	.8	8.5	14.7	7.8	13.9	11.9	18.9
Primary metal industries	1.7	2.3	10.9	23.8	11.1	24.1	9.8	21.9
Fabricated metal products	2.1	1.9	11.2	15.1	10.3	16.5	14.2	14.8
Machinery, except electrical equipment	1.9	3.7	5.1	14.5	5.1	14.4	5.1	14.7
Electrical equipment	2.0	2.8	6.5	11.9	4.7	9.7	8.7	14.8
Transportation equipment	2.1	2.9	7.3	15.2	7.0	13.7	8.9	21.5
Automobiles	1.5	1.7	10.2	18.8	9.1	16.1	16.0	31.2
Other transportation equipment .....	.5	1.2	4.4	11.8	4.8	11.4	3.1	13.6
Instruments and related products .....	.5	.5	5.5	9.3	1.7	9.4	10.4	9.1
Other durable goods industries .....	.3	.8	9.2	10.9	8.2	9.3	10.7	13.2
Nondurable goods	9.3	9.0	8.4	10.9	6.5	9.1	10.9	13.4
Food and kindred products	2.6	1.9	10.7	10.9	8.8	10.6	14.8	11.5
Textile mill products	1.2	1.0	12.4	13.7	7.9	12.1	16.3	15.4
Apparel and other textile products	1.7	1.9	10.1	15.7	8.1	12.2	10.6	16.7
Paper and allied products .....	.7	.6	7.5	8.6	6.0	8.0	13.3	11.4
Printing and publishing	1.3	1.1	5.1	7.5	4.3	7.5	6.2	7.5
Chemicals and allied products .....	.7	.9	4.3	7.7	3.6	6.4	7.8	11.0
Rubber and plastics products .....	.8	.9	8.5	14.1	8.3	12.0	8.8	17.7
Other nondurable goods industries .....	.6	.7	7.3	11.7	6.1	6.4	10.2	17.9
Transportation and public utilities	3.0	3.7	4.1	7.0	4.4	7.3	3.4	6.1
Railroads and railway express .....	.2	.5	3.5	11.1	3.2	11.9	(1)	(1)
Other transportation	1.9	2.6	5.3	12.2	6.3	10.1	3.9	10.5
Communication and other public utilities .....	.9	.6	2.5	2.6	2.3	2.4	2.9	3.1
Wholesale and retail trade	20.0	19.0	8.1	9.9	6.7	8.6	9.6	11.4
Finance, insurance, and real estate	2.6	2.7	3.8	5.0	3.1	4.7	4.2	5.2
Service industries	16.5	14.8	7.1	8.0	6.8	8.3	7.3	7.8
Professional services	7.2	5.9	5.3	5.5	3.7	4.7	6.1	5.8
All other service industries	9.3	8.9	9.7	11.4	9.5	11.5	9.8	11.4
Agricultural wage and salary workers	2.6	2.0	12.2	11.5	10.4	10.0	19.1	17.0
All other classes of workers	11.9	9.5	3.7	3.9	3.3	3.6	4.3	4.3
No previous work experience	11.1	11.2	--	--	--	--	--	--

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

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
NUMBER OF UNEMPLOYED												
Total unemployed, in thousands.....	8,216	10,942	3,421	5,137	3,092	3,882	1,703	1,924	6,165	8,334	2,351	2,698
Job losers.....	3,976	6,523	2,392	4,080	1,187	1,982	397	458	3,028	5,082	948	1,438
On layoff.....	1,198	1,942	725	1,268	385	581	87	93	973	1,659	225	283
Other job losers.....	2,778	4,573	1,656	2,812	802	1,401	310	365	2,055	3,423	723	1,155
Job leavers.....	1,037	847	313	285	513	412	204	150	842	656	195	191
Reentrants.....	2,292	2,357	606	636	1,202	1,261	484	460	1,679	1,776	613	581
New entrants.....	911	1,213	105	136	189	226	617	856	617	820	295	398
PERCENT DISTRIBUTION												
Total unemployed.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers.....	48.4	59.5	59.9	79.4	38.4	51.1	23.3	23.8	49.1	61.0	46.3	55.1
On layoff.....	14.6	17.7	21.2	24.7	12.4	15.0	5.1	4.8	15.8	19.9	11.0	10.9
Other job losers.....	33.8	41.3	48.7	54.7	26.0	35.1	18.2	19.0	33.3	41.1	35.3	44.3
Job leavers.....	12.6	7.7	9.3	5.6	15.5	10.5	12.0	7.8	13.7	7.9	9.5	7.3
Reentrants.....	27.9	21.5	17.7	12.4	38.9	32.5	28.3	23.9	27.2	21.3	29.9	22.3
New entrants.....	11.1	11.1	3.1	2.6	6.1	5.8	36.3	44.5	10.0	9.8	14.4	15.3
UNEMPLOYMENT RATE												
Total unemployment rate.....	7.5	9.9	6.0	8.8	7.1	8.7	20.1	23.7	6.5	8.6	15.0	18.3
Job loser rate ¹	3.6	5.9	4.2	7.0	2.7	4.5	4.7	5.6	3.2	5.2	6.9	10.1
Job leaver rate ¹.....	.9	.3	.5	.5	1.2	.9	2.4	1.9	.9	.7	1.4	1.3
Reentrant rate ¹	2.1	2.1	1.1	1.1	2.8	2.8	5.7	5.7	1.8	1.8	4.5	4.1
New entrant rate ¹.....	.8	1.1	.2	.2	.4	.5	7.3	10.6	.6	.8	2.2	2.8

¹ 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	October 1982						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
Total, 16 years and over.....	10,942	100.0	35.1	30.1	34.8	15.8	19.0
Job losers.....	6,523	100.0	31.0	29.2	39.8	16.5	23.3
On layoff.....	1,932	100.0	39.7	28.7	31.6	13.9	17.8
Other job losers.....	4,578	100.0	27.3	29.4	43.3	17.7	25.6
Job leavers.....	847	100.0	37.5	37.4	25.1	12.7	12.4
Reentrants.....	2,357	100.0	43.8	30.6	25.6	12.9	12.7
New entrants.....	1,213	100.0	39.0	28.7	32.3	19.4	12.9
Males, 20 years and over.....	5,137	100.0	29.5	29.0	41.6	17.0	24.6
Job losers.....	4,080	100.0	27.9	28.6	43.5	17.5	26.0
On layoff.....	1,258	100.0	37.2	28.9	33.9	14.8	19.1
Other job losers.....	2,812	100.0	23.7	28.4	47.9	18.7	29.1
Job leavers.....	295	100.0	28.3	33.6	33.0	16.4	16.7
Reentrants.....	635	100.0	39.0	23.9	32.1	13.9	18.2
New entrants.....	135	100.0	34.4	23.7	44.9	16.5	28.4
Females, 20 years and over.....	3,882	100.0	38.1	31.1	30.8	14.0	16.8
Job losers.....	1,982	100.0	33.3	30.4	36.3	15.6	20.7
On layoff.....	581	100.0	40.9	29.1	30.0	13.0	17.1
Other job losers.....	1,401	100.0	30.1	31.0	38.9	16.6	22.2
Job leavers.....	412	100.0	41.6	34.2	24.2	11.0	13.2
Reentrants.....	1,261	100.0	45.0	30.7	24.2	12.2	12.0
New entrants.....	226	100.0	35.3	33.3	31.4	14.9	16.5
Both sexes, 16 to 19 years.....	1,924	100.0	44.4	31.1	24.6	16.3	8.3
Job losers.....	458	100.0	48.7	29.7	21.6	12.2	9.5
On layoff.....	93	100.0	66.5	23.3	10.1	7.0	3.1
Other job losers.....	365	100.0	44.1	31.3	24.6	13.5	11.1
Job leavers.....	153	100.0	43.7	43.9	12.4	10.2	2.3
Reentrants.....	450	100.0	47.1	32.7	20.2	13.4	6.8
New entrants.....	856	100.0	40.7	29.7	30.6	21.1	9.5

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

Sex, age, and race	October 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		
Total, 16 years and over.....	10,942	8,905	23.7	6.1	78.9	34.4	15.5	4.6	1.63	
16 to 19 years	1,924	1,320	16.5	3.8	82.7	27.0	14.5	3.2	1.48	
20 to 24 years	2,407	2,024	24.1	6.2	82.0	33.3	16.7	3.1	1.65	
25 to 34 years	3,197	2,472	26.7	5.6	77.2	39.6	15.5	4.8	1.69	
35 to 44 years	1,638	1,249	26.7	9.4	77.5	36.3	13.5	5.3	1.69	
45 to 54 years	1,040	783	26.7	7.2	73.3	35.4	17.1	6.9	1.68	
55 to 64 years	608	453	22.5	6.2	73.3	34.4	17.7	8.2	1.62	
65 years and over	129	104	22.1	3.8	73.1	23.1	10.6	9.6	1.42	
Males, 16 years and over.....	6,172	4,778	26.2	5.9	79.7	32.0	17.1	5.7	1.67	
16 to 19 years	1,035	954	19.3	3.2	83.4	25.8	15.8	2.9	1.51	
20 to 24 years	1,380	1,140	25.4	6.3	81.3	31.4	19.3	3.6	1.67	
25 to 34 years	1,796	1,276	29.7	5.3	78.8	38.0	19.0	6.2	1.77	
35 to 44 years	918	652	29.6	9.2	76.8	33.1	12.4	7.8	1.69	
45 to 54 years	584	410	30.7	7.8	72.7	32.9	17.8	11.0	1.73	
55 to 64 years	374	272	24.3	6.3	80.1	27.9	15.1	9.2	1.63	
65 years and over	85	73	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
Females, 16 years and over.....	4,771	4,127	20.8	6.2	78.0	37.2	13.6	3.2	1.59	
16 to 19 years	889	855	13.4	4.4	81.9	28.4	13.0	3.5	1.45	
20 to 24 years	1,027	884	22.3	6.0	82.8	35.9	13.5	2.6	1.63	
25 to 34 years	1,401	1,195	23.5	6.0	75.6	41.4	11.7	3.3	1.62	
35 to 44 years	720	597	23.5	9.7	78.2	39.9	14.6	2.5	1.68	
45 to 54 years	456	373	22.0	6.4	73.7	40.2	16.1	2.4	1.61	
55 to 64 years	234	181	20.4	6.1	63.0	44.2	21.5	6.6	1.62	
65 years and over	43	31	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
Whites, 16 years and over.....	8,334	6,595	22.8	6.4	78.5	37.0	16.3	4.4	1.65	
Males	4,755	3,542	25.9	6.4	79.4	34.1	18.0	5.9	1.70	
Females	3,579	3,053	19.1	6.3	77.6	40.4	14.4	2.7	1.60	
Black and other, 16 years and over.....	2,608	2,310	26.4	5.2	79.8	27.1	13.0	5.1	1.57	
Males	1,417	1,236	26.9	4.4	80.3	25.2	14.3	5.3	1.58	
Females	1,192	1,073	25.7	6.0	79.2	28.2	11.6	4.9	1.56	

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

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

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

Sex and reason	October 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		
Total, 16 years and over.....	10,942	8,905	23.7	6.1	78.9	34.4	15.5	4.6	1.63	
Job losers	6,520	4,573	23.6	6.9	79.2	35.7	16.6	5.4	1.74	
Job leavers	847	857	22.6	7.1	80.4	35.7	11.9	2.1	1.60	
Reentrants	2,357	2,262	16.0	5.1	76.3	33.3	14.3	4.9	1.50	
New entrants	1,218	1,208	16.5	3.9	81.5	27.1	16.1	2.6	1.48	
Males, 16 years and over.....	6,172	4,778	26.2	5.9	79.7	32.0	17.1	5.7	1.67	
Job losers	4,370	3,024	30.6	6.5	79.8	33.4	17.4	6.7	1.74	
Job leavers	341	342	21.3	4.1	83.3	33.0	11.7	2.6	1.61	
Reentrants	892	847	17.5	5.5	76.0	33.0	16.9	6.5	1.52	
New entrants	569	565	19.1	4.2	82.3	24.1	18.6	1.4	1.50	
Females, 16 years and over.....	4,771	4,127	20.8	6.2	78.0	37.2	13.6	3.2	1.59	
Job losers	2,150	1,554	27.9	7.5	78.1	42.9	14.9	3.0	1.74	
Job leavers	506	514	23.7	9.1	78.5	34.2	12.1	1.8	1.60	
Reentrants	1,466	1,415	15.1	4.8	76.4	35.5	12.7	4.0	1.48	
New entrants	649	643	14.2	3.7	80.7	29.5	13.8	3.6	1.46	

NOTE: See note, table A-15.

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A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
Total, 16 years and over	8,216	10,942	100.0	100.0	6,537	9,147	100.0	100.0
Less than 5 weeks	3,611	3,846	43.9	35.1	2,575	2,965	40.9	32.4
5 to 14 weeks	2,510	3,232	30.6	30.1	1,965	2,699	30.1	29.5
5 to 10 weeks	1,947	2,456	23.7	22.4	1,437	1,976	22.9	21.6
11 to 14 weeks	563	836	6.9	7.5	458	723	7.2	7.9
15 weeks and over	2,095	3,804	25.5	34.8	1,896	3,483	29.0	38.1
15 to 26 weeks	1,042	1,727	12.7	15.8	920	1,550	14.1	16.9
27 weeks and over	1,053	2,077	12.8	19.0	976	1,933	14.9	21.1
27 to 51 weeks	467	1,044	5.7	9.5	440	986	6.7	10.8
52 weeks and over	586	1,033	7.1	9.4	535	947	8.2	10.4
Average (mean) duration, in weeks	13.3	16.9	--	--	14.7	18.2	--	--
Median duration, in weeks	6.2	8.8	--	--	7.0	9.8	--	--

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			Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
	October 1982								Oct. 1981	Oct. 1982	
Total, 16 years and over	10,942	3,846	3,292	1,727	2,077	16.9	8.9	43.9	35.1	25.5	34.8
16 to 21 years	2,909	1,217	932	446	314	12.5	6.3	48.0	41.8	19.1	26.1
16 to 19 years	1,924	854	598	313	159	11.5	6.3	50.5	44.4	17.2	24.6
20 to 24 years	2,407	855	784	344	424	15.6	8.2	43.8	35.5	26.4	31.9
25 to 34 years	3,197	1,114	956	524	603	17.2	8.9	43.1	34.8	26.0	35.3
35 to 44 years	1,638	477	511	256	395	20.3	10.6	40.4	29.1	31.1	39.7
45 to 54 years	1,040	326	264	169	281	20.5	11.0	39.5	31.8	29.7	43.2
55 to 64 years	608	181	146	105	176	22.3	13.3	35.3	29.8	32.6	46.2
65 years and over	129	39	34	16	39	22.4	11.2	55.7	30.5	19.0	42.8
Males, 16 years and over	6,172	1,956	1,803	1,039	1,374	18.3	10.0	40.6	31.7	29.4	39.1
16 to 21 years	1,571	613	497	251	210	14.0	7.4	44.7	39.1	21.9	29.3
16 to 19 years	1,035	443	315	167	109	12.5	6.7	48.6	42.8	19.6	26.8
20 to 24 years	1,380	416	459	212	283	17.7	9.4	39.5	30.2	30.3	35.8
25 to 34 years	1,796	558	515	324	398	19.1	10.2	40.7	31.1	29.0	40.2
35 to 44 years	918	245	266	157	249	22.0	12.0	32.3	26.8	38.8	44.3
45 to 54 years	584	156	126	105	187	23.2	15.3	38.8	28.4	36.4	49.9
55 to 64 years	374	107	83	66	117	24.4	14.5	36.0	28.6	34.1	49.1
65 years and over	85	21	27	7	30	24.3	12.5	(1)	24.3	(1)	43.7
Females, 16 years and over	4,771	1,890	1,490	688	704	14.3	7.4	47.6	39.6	21.2	29.2
16 to 21 years	1,338	603	436	195	104	10.9	6.1	51.4	45.1	16.1	22.4
16 to 19 years	889	410	283	146	50	10.2	5.9	52.5	46.2	14.7	22.0
20 to 24 years	1,027	433	315	132	141	12.8	6.5	49.3	42.7	21.5	26.6
25 to 34 years	1,401	555	441	200	205	14.6	7.5	45.7	39.7	22.9	28.9
35 to 44 years	720	231	245	98	146	17.3	9.6	48.1	32.1	24.0	33.9
45 to 54 years	456	160	138	64	94	17.0	8.8	40.2	35.1	22.6	34.7
55 to 64 years	234	74	62	38	59	19.3	10.5	34.5	31.8	30.7	41.6
65 years and over	43	13	7	9	9	18.5	7.2	(1)	(1)	(1)	(1)
White, 16 years and over	8,334	2,950	2,592	1,318	1,464	15.9	8.6	44.9	35.5	23.9	33.4
Males	4,755	1,503	1,445	817	990	17.9	9.8	42.0	31.6	27.8	38.0
Females	3,579	1,457	1,147	501	474	13.3	7.1	48.3	40.7	19.5	27.3
Black and other, 16 years and over	2,608	887	700	409	613	20.0	9.5	41.0	34.0	30.3	39.2
Males	1,417	454	357	223	383	22.3	10.6	36.1	32.0	34.9	42.8
Females	1,192	433	343	186	230	17.3	8.4	45.6	36.3	26.0	34.9
Males, 16 years and over:											
Married, spouse present	2,690	803	749	482	557	20.0	11.2	41.2	29.8	30.4	42.3
Widowed, divorced, or separated	726	215	203	101	207	22.8	13.5	36.1	29.6	34.3	42.5
Single (never married)	2,756	939	851	455	510	16.9	8.9	41.2	34.1	27.5	35.0
Females, 16 years and over:											
Married, spouse present	2,135	843	715	264	307	13.9	7.5	49.8	39.8	19.7	26.7
Widowed, divorced, or separated	881	309	262	123	187	17.5	8.5	45.1	35.1	25.5	35.2
Single (never married)	1,754	732	513	300	210	13.2	6.8	46.5	41.7	20.7	29.1

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

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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			Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
	October 1982										
OCCUPATION											
White-collar workers	3,003	1,071	929	458	546	16.3	9.8	41.2	35.6	24.3	33.4
Professional and managerial	1,087	355	339	188	204	17.2	9.5	36.9	32.7	25.3	36.1
Sales workers	413	129	139	63	82	17.4	9.9	42.9	31.3	19.2	35.0
Clerical workers	1,504	586	451	207	250	15.3	8.0	43.5	39.0	24.9	31.1
Blue-collar workers	4,896	1,545	1,462	799	1,089	18.5	9.7	43.3	31.6	27.6	39.6
Craft and kindred workers	1,285	417	368	233	257	18.2	9.8	44.1	32.5	27.1	38.9
Operatives, except transport	2,176	747	602	335	493	18.3	9.5	44.6	34.3	26.8	38.0
Transport equipment operatives	397	93	109	78	117	23.5	14.2	38.8	23.5	34.2	49.0
Nonfarm laborers	1,038	283	384	153	213	17.6	9.5	41.4	27.8	27.7	35.3
Service workers	1,645	671	496	213	265	14.7	7.0	50.1	40.8	23.8	29.0
INDUSTRY¹											
Agriculture	216	86	77	31	22	13.1	5.9	59.3	39.6	13.5	24.5
Construction	973	311	304	172	187	17.0	9.6	49.6	31.9	24.3	36.9
Manufacturing	2,933	895	840	454	743	19.5	10.4	42.7	30.5	27.8	40.3
Durable goods	1,952	525	551	323	552	21.1	12.2	39.0	26.9	33.2	44.8
Non durable goods	981	369	289	131	191	16.3	8.2	48.1	37.7	24.2	32.8
Transportation and public utilities	453	111	163	72	107	22.4	11.5	37.2	24.4	31.1	39.5
Wholesale and retail trade	2,091	797	658	311	325	14.5	7.9	45.5	38.1	22.1	30.4
Finance and service industries	2,375	923	711	328	414	15.9	7.8	42.8	38.9	25.7	31.2
Public administration	261	97	65	42	58	18.5	8.9	36.4	37.0	34.7	33.1
No previous work experience	1,223	480	349	237	157	15.4	7.9	41.7	39.3	25.6	32.2

¹ Includes wage and salary workers only.

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

(In thousands)

Industry and age	Total		Males		Females	
	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
All industries						
16 to 19 years	101,028	99,825	57,529	56,233	43,498	43,622
16 to 17 years	5,778	6,182	3,610	3,147	3,168	3,036
18 to 19 years	2,653	2,318	1,456	1,165	1,197	1,152
20 to 24 years	4,124	3,865	2,153	1,981	1,971	1,883
25 to 54 years	14,166	13,562	7,440	7,123	6,726	6,439
25 to 54 years	65,513	65,615	37,737	37,346	27,776	28,270
25 to 34 years	29,667	28,387	16,459	16,059	12,208	12,328
35 to 44 years	20,587	21,288	11,803	12,073	8,779	9,215
45 to 54 years	16,259	15,940	9,471	9,213	6,789	6,727
55 to 64 years	11,561	11,517	5,877	6,827	4,684	4,689
55 to 59 years	7,193	7,001	4,236	4,157	2,957	2,844
60 to 64 years	4,368	4,516	2,641	2,670	1,727	1,846
65 years and over	3,010	2,948	1,866	1,760	1,144	1,187
Nonagricultural industries						
16 to 19 years	97,451	96,207	54,685	53,293	42,765	42,914
16 to 17 years	5,411	5,794	3,305	2,828	3,106	2,966
18 to 19 years	2,470	2,156	1,303	1,035	1,167	1,121
20 to 24 years	3,941	3,638	2,002	1,794	1,939	1,845
25 to 54 years	13,685	13,082	7,037	6,721	6,649	6,361
25 to 54 years	63,656	63,706	35,330	35,864	27,326	27,840
25 to 34 years	27,894	27,600	15,850	15,426	12,043	12,174
35 to 44 years	23,037	20,709	11,412	11,628	8,626	9,081
45 to 54 years	15,724	15,396	9,068	8,810	6,657	6,586
55 to 64 years	10,994	10,987	5,418	6,395	4,575	4,592
55 to 59 years	6,859	6,699	3,985	3,925	2,884	2,775
60 to 64 years	4,125	4,288	2,434	2,471	1,691	1,817
65 years and over	2,703	2,638	1,595	1,483	1,109	1,155
Agriculture						
16 to 19 years	3,577	3,618	2,844	2,910	733	708
16 to 17 years	366	389	304	319	62	70
18 to 19 years	183	162	153	131	30	31
20 to 24 years	183	227	151	188	32	39
25 to 54 years	480	480	404	402	77	79
25 to 54 years	1,357	1,910	1,407	1,481	450	429
25 to 34 years	773	787	608	633	165	154
35 to 44 years	550	579	396	445	153	134
45 to 54 years	535	544	403	403	132	141
55 to 64 years	557	530	453	432	109	98
55 to 59 years	324	302	251	233	73	69
60 to 64 years	243	228	207	199	36	28
65 years and over	306	310	271	277	35	33

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

(In thousands)

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 18-19 years		Females, 18-19 years	
	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
TOTAL	101,028	99,825	53,920	53,055	49,330	49,585	3,610	3,147	3,168	3,036
White-collar workers	53,387	53,867	24,140	24,185	25,991	27,509	624	569	1,632	1,605
Professional and technical	15,813	17,219	9,137	9,259	7,524	7,789	79	57	73	114
Health workers	3,172	3,284	1,039	1,048	2,116	2,229	11	--	8	3
Teachers, except college	3,447	3,473	993	1,013	2,434	2,438	9	--	11	22
Other professional and technical	10,194	10,462	7,105	7,198	2,974	3,122	59	57	54	84
Managers and administrators, except farm	11,646	11,628	8,410	8,281	3,117	3,236	57	63	62	49
Salaried workers	9,627	9,721	6,880	6,915	2,640	2,701	50	57	58	49
Self-employed workers in retail trade	823	865	541	563	271	300	3	1	5	1
Self-employed workers, except retail trade	1,199	1,041	989	802	205	235	5	4	--	1
Sales workers	6,391	6,588	3,251	3,398	2,554	2,581	212	225	375	385
Retail trade	3,239	3,278	1,003	1,108	1,725	1,684	163	156	348	330
Other industries	3,153	3,310	2,248	2,290	829	897	49	69	27	55
Clerical workers	13,535	18,432	3,342	3,247	13,796	13,904	276	223	1,122	1,058
Stenographers, typists, and secretaries	4,984	4,930	71	78	4,677	4,604	8	6	227	245
Other clerical workers	13,552	13,502	3,271	3,173	9,119	9,300	268	217	895	813
Blue-collar workers	31,212	29,389	23,507	22,404	5,617	5,245	1,801	1,467	287	274
Craft and kindred workers	12,513	12,213	11,376	11,046	742	854	368	283	24	29
Carpenters	1,059	1,097	1,008	1,044	11	14	37	38	4	--
Construction craft workers, except carpenters	2,695	2,553	2,540	2,453	52	48	101	50	4	2
Mechanics and repairers	3,303	3,274	3,124	3,073	60	81	120	120	--	1
Metal craft workers	1,241	1,113	1,173	1,066	37	26	30	20	1	1
Blue-collar worker supervisors, not elsewhere classified	1,738	1,627	1,548	1,434	180	188	7	3	3	2
All other	2,473	2,548	1,984	1,976	492	497	75	52	12	24
Operatives, except transport	10,599	9,124	5,795	5,091	4,114	3,579	515	302	175	151
Durable goods manufacturing	4,613	3,755	2,890	2,287	1,537	1,373	150	57	40	38
Nondurable goods manufacturing	3,357	2,994	1,267	1,246	1,912	1,636	106	45	72	66
Other industries	2,624	2,375	1,637	1,558	665	570	259	200	62	49
Transport equipment operatives	3,632	3,395	3,149	2,953	340	304	136	116	7	22
Drivers, motor vehicles	3,107	2,961	2,673	2,568	315	276	113	96	5	23
All other	525	434	476	385	24	29	23	20	2	--
Nonfarm laborers	4,471	4,658	3,189	3,314	420	506	781	766	82	72
Construction	788	783	675	651	13	16	97	118	5	--
Manufacturing	934	863	755	653	134	148	88	50	7	7
Other industries	2,698	3,012	1,758	2,006	275	343	596	598	69	56
Service workers	13,488	13,693	4,161	4,366	7,213	7,355	917	856	1,231	1,116
Private household workers	1,035	1,091	30	24	809	868	6	12	189	188
Service workers, except private household	12,454	12,602	4,131	4,342	5,801	6,487	911	843	1,012	929
Food service workers	4,877	4,825	975	1,159	2,514	2,441	642	585	747	641
Protective service workers	1,429	1,535	1,265	1,352	144	157	16	17	3	9
All other	5,143	6,242	1,891	1,831	3,743	3,889	253	241	262	279
Farm workers	2,941	2,875	2,112	2,102	513	477	268	256	48	40
Farmers and farm managers	1,553	1,491	1,355	1,289	173	185	22	16	2	1
Farm laborers and supervisors	1,388	1,384	757	813	340	293	246	240	46	38
Paid workers	1,131	1,142	717	770	149	143	203	193	31	35
Unpaid family workers	288	241	39	43	191	149	43	46	14	3

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
TOTAL						
Total, 16 years and over (thousands)	131,028	99,825	57,529	56,203	43,498	43,622
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	52.8	54.0	43.0	44.0	65.8	66.7
Professional and technical	16.6	17.2	15.3	16.6	17.5	18.1
Managers and administrators, except farm	11.5	11.6	14.7	14.8	7.3	7.5
Sales workers	6.3	6.6	5.0	6.4	6.7	6.8
Clerical workers	18.3	18.5	6.3	6.2	34.3	34.3
Blue-collar workers	30.9	29.4	44.0	42.5	13.6	12.7
Craft and kindred workers	12.4	12.2	20.4	20.2	1.8	2.0
Operatives, except transport	10.5	9.1	11.3	9.6	9.9	8.6
Transport equipment operatives	3.6	3.4	5.7	5.5	.8	.7
Nonfarm laborers	4.4	4.7	5.9	7.3	1.2	1.3
Service workers	13.4	13.7	8.8	9.3	19.3	19.4
Private household workers	1.0	1.1	.1	.1	2.3	2.4
Other service workers	12.3	12.6	9.8	9.2	17.0	17.0
Farm workers	2.9	2.9	4.1	4.2	1.3	1.2
Farmers and farm managers	1.5	1.5	2.4	2.3	.4	.4
Farm laborers and supervisors	1.4	1.4	1.7	1.9	.9	.8
White						
Total, 16 years and over (thousands)	89,397	88,145	51,492	50,232	37,905	37,913
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	54.4	55.6	44.5	45.6	67.8	69.8
Professional and technical	16.9	17.7	16.4	17.1	17.6	18.4
Managers and administrators, except farm	12.3	12.4	15.6	15.8	7.7	8.0
Sales workers	6.7	7.1	6.4	6.9	7.2	7.3
Clerical workers	18.4	18.4	6.0	5.9	35.2	35.0
Blue-collar workers	30.3	28.9	43.2	41.6	12.8	12.0
Craft and kindred workers	12.8	12.7	23.9	20.7	1.8	2.1
Operatives, except transport	9.8	8.5	10.4	9.1	9.0	7.8
Transport equipment operatives	3.4	3.3	5.4	5.3	.8	.8
Nonfarm laborers	4.2	4.3	6.4	6.6	1.1	1.3
Service workers	12.2	12.5	8.0	8.3	18.0	18.0
Private household workers .....	.8	.9	.1	(1)	1.9	2.0
Other service workers	11.4	11.6	8.0	8.3	16.1	16.0
Farm workers	3.1	3.1	4.3	4.4	1.4	1.3
Farmers and farm managers	1.7	1.7	2.6	2.6	.4	.5
Farm laborers and supervisors	1.4	1.4	1.7	1.9	1.0	.8
Black and other						
Total, 16 years and over (thousands)	11,631	11,680	6,037	5,971	5,593	5,709
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	41.2	41.6	39.9	30.7	52.2	53.0
Professional and technical	14.4	14.0	12.6	12.1	16.4	15.9
Managers and administrators, except farm	5.8	5.7	6.9	7.0	4.5	4.4
Sales workers	3.1	3.2	2.9	2.9	3.4	3.4
Clerical workers	17.9	18.7	8.5	8.6	28.0	29.4
Blue-collar workers	35.5	33.7	51.0	49.4	18.8	17.2
Craft and kindred workers	8.9	8.8	15.9	15.7	1.2	1.6
Operatives, except transport	15.5	13.8	15.5	13.8	15.4	13.7
Transport equipment operatives	4.8	4.0	8.5	7.2	.8	.7
Nonfarm laborers	6.4	7.1	11.1	12.7	1.4	1.2
Service workers	21.9	23.2	15.7	17.6	28.5	29.1
Private household workers	2.6	2.8	.2	.2	5.3	5.5
Other service workers	19.2	20.4	15.5	17.4	23.2	23.6
Farm workers	1.5	1.5	2.4	2.3	.4	.7
Farmers and farm managers3	.2	.4	.3	.1	.1
Farm laborers and supervisors	1.2	1.3	2.0	2.0	.3	.6

¹ Less than 0.05 percent.

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

[In thousands]

Age and sex	October 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	88,414	1,226	15,559	71,628	7,399	394	1,667	1,692	259
16 to 19 years	5,673	269	333	5,071	96	24	297	39	53
16 to 17 years	2,096	192	76	1,828	52	8	105	23	33
18 to 19 years	3,577	77	257	3,243	45	16	191	16	20
20 to 24 years	12,722	137	1,348	11,237	339	21	345	108	27
25 to 34 years	25,802	178	4,376	21,247	1,735	64	425	328	34
35 to 44 years	18,720	148	4,028	14,545	1,982	106	240	293	46
45 to 54 years	13,808	143	3,062	10,602	1,503	85	171	322	51
55 to 64 years	9,625	204	2,073	7,348	1,295	67	132	365	32
55 to 59 years	5,952	103	1,313	4,539	707	40	89	190	23
60 to 64 years	3,673	104	760	2,809	588	27	43	175	10
65 years and over	2,064	147	339	1,578	549	26	57	237	15
Males, 16 years and over	48,282	185	7,542	40,554	4,970	41	1,342	1,477	91
16 to 19 years	2,757	78	137	2,542	53	18	232	38	49
16 to 17 years	1,002	60	21	920	27	5	76	22	33
18 to 19 years	1,754	18	115	1,621	27	13	155	16	16
20 to 24 years	6,498	20	606	5,871	216	8	282	98	22
25 to 34 years	14,281	30	2,081	12,170	1,142	2	348	282	3
35 to 44 years	10,415	12	1,946	8,457	1,212	1	192	250	2
45 to 54 years	7,776	5	1,544	6,227	1,027	7	129	273	1
55 to 64 years	5,446	16	1,052	4,378	946	4	106	320	6
55 to 59 years	3,390	11	670	2,709	532	2	69	160	4
60 to 64 years	2,055	5	382	1,668	414	1	37	160	2
65 years and over	1,110	22	178	909	373	1	52	217	8
Females, 16 years and over	40,132	1,040	8,017	31,075	2,430	353	325	216	168
16 to 19 years	2,917	191	197	2,529	43	6	65	1	4
16 to 17 years	1,094	131	55	907	25	3	29	2	1
18 to 19 years	1,823	59	142	1,622	18	4	36	--	4
20 to 24 years	6,224	116	742	5,366	123	13	63	11	5
25 to 34 years	11,520	143	2,296	9,076	593	61	78	45	31
35 to 44 years	8,306	136	2,082	6,088	670	105	47	43	44
45 to 54 years	6,032	137	1,519	4,376	476	78	42	49	50
55 to 64 years	4,180	188	1,021	2,971	349	64	26	46	25
55 to 59 years	2,562	90	643	1,829	175	38	20	31	18
60 to 64 years	1,618	98	379	1,141	174	26	6	15	8
65 years and over	954	124	161	669	176	25	5	20	7

A-24. Employed persons by industry and occupation

[In thousands]

Industry	October 1982											
	White-collar workers					Blue-collar workers				Service workers		
	Total employed	Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	Farm workers
Agriculture	3,618	104	23	9	80	62	17	83	353	--	9	2,875
Mining	937	151	106	13	134	210	259	31	20	--	14	--
Construction	5,842	233	746	30	383	3,221	276	164	783	--	24	--
Manufacturing	19,780	2,629	1,660	516	2,551	3,733	6,748	667	963	--	413	--
Durable goods	11,561	1,835	960	174	1,491	2,364	3,755	294	496	--	224	--
Nondurable goods	8,219	324	700	342	1,059	1,370	2,994	374	368	--	189	--
Transportation and public utilities	6,582	677	739	70	1,421	1,391	152	1,470	465	--	196	--
Wholesale and retail trade	21,047	510	4,179	4,283	3,821	1,441	862	709	1,334	--	3,907	--
Wholesale trade	4,065	189	853	1,005	823	329	205	352	272	--	36	--
Retail trade	16,982	321	3,326	3,278	2,998	1,111	657	357	1,062	--	3,871	--
Finance, insurance, and real estate	6,232	380	1,236	1,396	2,722	147	3	3	78	--	268	--
Services	30,710	11,544	2,304	273	5,513	1,725	763	217	623	1,091	6,658	--
Private households	1,304	12	--	--	11	4	1	4	138	1,091	42	--
Other service industries	29,406	11,532	2,304	271	5,502	1,721	762	213	485	--	6,616	--
Public administration	5,076	1,006	631	--	1,801	283	52	51	140	--	1,113	--

HOUSEHOLD DATA

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 ¹			
					Paid absence ²		Unpaid absence ²	
	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
Total, 16 years and over	4,473	4,459	4,345	4,372	2,349	2,363	1,472	1,423
Vacation	2,090	2,156	2,056	2,135	1,571	1,600	325	337
Illness	1,362	1,221	1,331	1,196	597	550	625	539
Bad weather	120	58	97	37	--	--	--	--
Industrial dispute	46	55	46	55	--	--	--	--
All other reasons	855	959	815	938	181	214	521	547
Males, 16 years and over	2,542	2,357	2,442	2,295	1,418	1,318	679	633
Vacation	1,222	1,234	1,195	1,190	954	943	126	127
Illness	731	646	711	622	352	291	303	259
All other reasons ³	588	517	536	494	122	79	250	247
Females, 16 years and over	1,931	2,093	1,903	2,076	932	1,045	792	791
Vacation	868	952	861	946	537	652	199	211
Illness	631	576	620	574	245	258	322	280
All other reasons ³	432	565	421	555	90	135	272	300

¹Excludes private household workers.

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

²Pay 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	October 1992					
	Thousands of persons			Percent distribution		
	All industries	Nonagri-cultural industries	Agri-culture	All industries	Nonagri-cultural industries	Agri-culture
Total, 16 years and over	95,366	91,834	3,531	100.0	100.0	100.0
1-34 hours	27,884	26,857	1,927	29.2	29.2	29.1
1-4 hours	381	823	59	.9	.9	1.7
5-14 hours	5,030	4,737	292	5.3	5.2	8.3
15-29 hours	12,402	11,945	457	13.0	13.0	12.9
30-34 hours	9,571	9,352	219	10.0	10.2	6.2
35 hours and over	67,482	64,978	2,504	70.8	70.8	70.9
35-39 hours	6,825	6,683	142	7.2	7.3	4.0
40 hours	37,589	37,134	555	39.5	40.4	15.7
41 hours and over	22,958	21,161	1,837	24.1	23.0	51.2
41 to 48 hours	8,418	8,158	260	8.8	8.9	7.4
49 to 59 hours	3,035	7,574	461	8.4	8.2	13.1
60 hours and over	6,515	5,429	1,086	6.8	5.9	30.8
Average hours, total at work	37.8	37.5	45.3	--	--	--
Average hours, workers on full-time schedules	42.7	42.3	54.2	--	--	--

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	October 1982					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over.....	27,884	10,035	17,829	26,857	9,751	17,105
Economic reasons	6,407	2,359	4,043	6,073	2,232	3,841
Slack work	3,540	2,050	1,490	3,301	1,929	1,372
Material shortages or repairs to plant and equipment	57	57	--	57	57	--
New job started during week	169	159	--	168	158	--
Job terminated during week	84	34	--	79	79	--
Could find only part-time work	2,558	--	2,558	2,470	--	2,470
Other reasons	21,476	7,695	13,781	20,783	7,519	13,264
Does not want, or unavailable for, full-time work	11,552	--	11,552	11,143	--	11,143
Vacation	1,119	1,119	--	1,108	1,108	--
Illness	1,552	1,394	153	1,505	1,372	133
Bad weather	322	322	--	244	244	--
Industrial dispute	6	5	--	6	6	--
Legal or religious holiday	3,625	3,625	--	3,616	3,616	--
Full time for this job	1,546	--	1,546	1,501	--	1,501
All other reasons	1,754	1,230	524	1,661	1,174	487
Average hours:						
Economic reasons	21.8	24.5	29.3	21.9	24.7	20.3
Other reasons	21.9	28.2	18.4	22.1	28.3	18.5
Worked 30 to 34 hours:						
Economic reasons	2,061	1,105	955	1,974	1,063	911
Other reasons	7,510	5,312	2,193	7,378	5,282	2,136

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

[Numbers in thousands]

Industry	October 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		
Total, 16 years and over ¹	91,834	6,073	13,264	72,497	51,336	8,158	13,003	37.5	42.3
Wage and salary workers	84,584	5,343	11,873	67,358	49,024	7,641	10,703	37.4	41.8
Construction	4,496	434	199	3,893	2,939	410	544	38.3	41.2
Manufacturing	18,562	1,078	595	16,839	12,713	2,203	1,973	39.8	41.4
Durable goods	10,833	512	239	10,137	7,805	1,206	1,126	40.1	41.2
Non durable goods	7,674	566	356	6,752	4,908	997	847	39.4	41.7
Transportation and public utilities	5,826	255	383	5,138	3,657	608	923	40.2	42.6
Wholesale and retail trade	18,275	1,678	4,249	12,349	7,960	1,783	2,606	35.7	43.2
Finance, insurance, and real estate	5,392	129	553	4,710	3,693	397	520	37.7	40.2
Service industries	26,356	1,670	5,593	19,093	13,986	1,792	3,315	35.5	42.0
Private households	1,133	252	591	340	207	41	92	22.3	45.5
All other industries	25,173	1,418	5,002	18,753	13,779	1,751	3,223	36.1	41.9
Public administration	4,818	94	291	4,433	3,593	324	516	38.1	39.9
Self-employed workers	6,857	703	1,211	4,943	2,207	493	2,243	40.0	48.6
Unpaid family workers	394	27	181	185	104	24	58	33.2	45.6

¹ Includes mining, not shown separately.

HOUSEHOLD DATA

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	October 1992							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	91,334	6,073	13,264	72,497	51,336	21,161	37.5	42.3
16 to 21 years	10,245	1,197	4,304	4,744	3,760	984	28.0	40.5
16 to 19 years	5,638	714	3,140	1,784	1,445	339	23.9	39.9
16 to 17 years	2,383	133	1,780	170	137	33	16.3	37.0
18 to 19 years	3,555	581	1,360	1,614	1,308	306	28.3	40.3
20 years and over	86,196	5,359	10,124	70,713	49,890	20,823	38.4	42.4
20 to 24 years	12,736	1,176	2,170	9,390	7,056	2,334	35.6	41.3
25 years and over	73,453	4,183	7,954	51,323	42,834	18,489	38.9	42.5
25 to 44 years	46,357	2,700	4,232	39,425	27,120	12,305	39.5	42.7
45 to 64 years	24,717	1,352	2,552	20,813	14,934	5,879	38.9	42.3
65 years and over	2,385	132	1,170	1,083	778	305	28.5	42.4
Males, 16 years and over	50,996	2,843	3,859	44,294	28,521	15,773	40.5	43.7
16 to 21 years	5,054	583	1,938	2,533	1,868	665	29.5	41.7
16 to 19 years	2,753	347	1,446	960	739	221	25.1	41.0
16 to 17 years	1,001	70	832	99	77	22	17.1	38.0
18 to 19 years	1,751	277	613	861	663	198	29.7	41.4
20 years and over	48,244	2,495	2,414	43,335	27,782	15,553	41.4	43.7
20 to 24 years	6,558	575	879	5,104	3,491	1,613	37.5	42.6
25 years and over	41,586	1,919	1,535	38,232	24,292	13,940	42.0	43.9
25 to 44 years	26,109	1,244	530	24,335	15,077	9,258	42.7	44.1
45 to 64 years	14,226	608	417	13,201	8,746	4,455	41.9	43.5
65 years and over	1,350	66	588	596	468	228	30.8	43.3
Females, 16 years and over	40,833	3,231	9,405	28,202	22,814	5,388	33.8	40.2
16 to 21 years	5,191	618	2,366	2,211	1,893	318	26.5	39.1
16 to 19 years	2,885	367	1,695	823	704	119	22.7	38.7
16 to 17 years	1,082	62	948	72	62	10	15.6	35.7
18 to 19 years	1,334	308	746	754	645	109	26.9	39.0
20 years and over	37,953	2,863	7,711	27,379	22,110	5,269	34.7	40.2
20 to 24 years	6,178	601	1,291	4,286	3,566	720	33.7	39.8
25 years and over	31,775	2,264	6,420	23,091	18,542	4,549	34.9	40.3
25 to 44 years	20,248	1,456	3,703	15,089	12,042	3,047	35.3	40.3
45 to 64 years	10,491	744	2,135	7,612	6,187	1,425	35.0	40.2
65 years and over	1,036	65	583	388	310	78	25.6	41.0
RACE								
White	80,897	4,975	12,151	63,771	44,173	19,598	37.7	42.5
Males	45,439	2,361	3,501	39,577	24,816	14,761	40.8	43.9
Females	35,458	2,614	8,650	24,194	19,358	4,836	33.6	40.2
Black and other	10,938	1,098	1,113	8,727	7,164	1,563	36.5	40.7
Males	5,557	481	358	4,718	3,706	1,012	38.1	41.4
Females	5,381	618	755	4,008	3,456	552	34.9	39.8
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	30,569	1,352	1,128	32,189	20,182	12,007	42.3	44.0
Widowed, divorced, or separated	4,415	339	215	3,861	2,495	1,366	40.9	43.8
Single (never married)	11,913	1,152	2,516	8,245	5,845	2,400	35.0	42.5
Females, 16 years and over:								
Married, spouse present	22,596	1,602	5,600	15,494	12,704	2,790	33.7	40.3
Widowed, divorced, or separated	7,955	719	994	6,242	4,899	1,343	36.5	40.8
Single (never married)	10,137	909	2,811	6,467	5,213	1,254	32.0	40.1

HOUSEHOLD DATA

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

[Numbers in thousands]

Occupation and sex	October 1982									Average hours, total at work	Average hours, workers on full-time schedules		
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules				
				Total	40 hours or less	41 to 48 hours	49 hours or more						
Total, 16 years and over	92,555	6,168	13,400	72,987	51,512	8,222	13,153	37.5	42.3				
White-collar workers	51,544	1,921	7,584	42,039	28,777	4,481	8,781	38.3	42.6				
Professional and technical	15,547	450	2,087	14,010	9,442	1,486	3,082	39.0	42.7				
Managers and administrators, except farm	11,103	202	571	10,336	5,332	1,375	3,659	44.5	46.2				
Sales workers	6,253	416	1,516	4,328	2,596	539	1,193	36.2	44.0				
Clerical workers	17,623	853	3,410	13,365	11,437	1,081	847	34.6	39.3				
Blue-collar workers	27,899	2,615	1,895	23,339	16,399	3,014	3,376	38.6	42.0				
Craft and kindred workers	11,533	798	412	10,323	7,235	1,415	1,663	40.1	42.3				
Operatives, except transport	8,736	898	429	7,409	5,806	914	689	38.4	41.0				
Transport equipment operatives	3,218	295	254	2,569	1,575	370	724	40.8	45.0				
Nonfarm laborers	4,412	625	799	2,988	2,374	315	299	33.3	40.7				
Service workers	13,112	1,632	3,921	7,559	5,836	727	996	32.1	41.8				
Private household	1,051	192	539	320	136	36	98	23.7	46.5				
Other service workers	12,051	1,439	3,381	7,241	5,650	691	900	32.9	41.6				
Males, 16 years and over	51,532	2,926	3,934	44,572	28,733	5,628	10,311	40.5	43.7				
White-collar workers	23,853	558	1,584	21,711	12,445	2,658	6,608	42.6	45.0				
Professional and technical	9,027	195	525	8,307	5,186	861	2,260	42.0	44.0				
Managers and administrators, except farm	7,995	109	223	7,664	3,587	1,058	3,019	46.0	47.2				
Sales workers	3,499	134	398	2,967	1,549	411	1,007	41.5	45.6				
Clerical workers	3,331	118	438	2,775	2,124	329	322	37.3	40.9				
Blue-collar workers	22,633	1,965	1,313	19,355	13,663	2,573	3,119	39.2	42.4				
Craft and kindred workers	10,705	721	300	9,684	6,777	1,314	1,593	40.4	42.4				
Operatives, except transport	5,157	427	214	4,526	3,345	526	555	39.6	41.9				
Transport equipment operatives	2,905	270	135	2,500	1,450	350	700	41.8	45.2				
Nonfarm laborers	3,855	548	664	2,543	2,089	283	271	33.5	40.8				
Service workers	5,045	403	1,037	3,606	2,625	397	584	36.0	42.9				
Private household	35	3	23	9	6	--	3	18.5	47.3				
Other service workers	5,011	401	1,014	3,596	2,518	397	581	36.1	42.9				
Females, 16 years and over	41,023	3,241	9,464	28,318	22,891	2,594	2,843	33.8	40.2				
White-collar workers	27,691	1,364	5,999	20,328	16,332	1,823	2,173	34.6	40.1				
Professional and technical	7,520	256	1,562	5,702	4,255	525	822	35.4	40.8				
Managers and administrators, except farm	3,113	91	347	2,675	1,719	317	639	40.4	43.6				
Sales workers	2,761	282	1,118	1,361	1,047	128	186	29.4	40.5				
Clerical workers	14,293	735	2,972	10,591	9,318	752	525	34.0	38.9				
Blue-collar workers	5,255	650	582	4,034	3,336	441	257	35.9	39.8				
Craft and kindred workers	828	76	112	640	470	101	69	36.3	40.8				
Operatives, except transport	3,563	471	215	2,893	2,461	288	134	36.7	39.4				
Transport equipment operatives	313	25	119	159	125	20	24	31.4	41.9				
Nonfarm laborers	556	77	136	343	282	32	29	32.6	39.9				
Service workers	3,065	1,227	2,883	3,956	3,213	330	413	29.7	40.9				
Private household	1,016	190	516	310	179	36	95	23.9	46.5				
Other service workers	7,050	1,039	2,367	3,644	3,032	294	318	30.6	40.4				

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

[Numbers in thousands]

Employment status	October 1992								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,143	3,637	3,506	5,886	3,013	2,873	1,257	624	633
Civilian labor force	1,056	551	505	1,011	530	431	45	21	24
Employed	873	437	442	849	423	426	30	15	16
Agriculture	81	70	11	80	70	11	--	--	--
Nonagricultural industries	793	383	431	769	353	415	30	14	15
Unemployed	177	114	64	162	107	55	15	7	9
Unemployment rate	16.8	20.7	12.7	16.0	20.2	11.4	(1)	(1)	(1)
Not in labor force	6,087	3,086	3,001	4,875	2,483	2,392	1,212	603	609
Keeping house	25	11	14	22	9	14	3	3	1
Going to school	5,970	3,026	2,944	4,773	2,433	2,341	1,197	593	604
Unable to work	3	3	--	3	3	--	--	--	--
All other reasons	89	46	42	77	39	38	11	7	4

¹ 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	October 1982					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	879	437	442	100.0	100.0	100.0
Nonagricultural industries	798	368	431	90.6	84.2	97.7
Wage and salary workers	711	308	403	80.7	70.5	91.4
Private household workers	347	70	276	39.4	16.0	62.6
Government workers	11	8	3	1.2	1.8	.7
Other wage and salary workers	354	229	124	40.2	52.4	28.1
Self-employed workers	87	60	27	9.9	13.7	6.1
Unpaid family workers	1	--	--	.1	--	--
Agriculture	81	70	11	9.2	16.0	2.5
Wage and salary workers	36	30	6	4.1	6.9	1.4
Self-employed workers	21	19	2	2.4	4.3	.5
Unpaid family workers	24	21	3	2.7	4.8	.7
OCCUPATION						
Total	879	437	442	100.0	100.0	100.0
White-collar workers	256	179	77	29.1	40.8	17.3
Professional and technical	9	3	6	1.0	.7	1.3
Managers and administrators, except farm	1	2	--	.1	.5	--
Sales workers	208	161	48	23.7	36.7	10.8
Clerical workers	38	13	25	4.3	3.0	5.6
Blue-collar workers	159	143	16	18.1	32.6	3.6
Craft and kindred workers	5	4	1	.6	.9	.2
Operatives, except transport	14	16	--	1.6	3.6	--
Transport equipment operatives	3	2	1	.3	.5	.2
Nonfarm laborers	137	122	15	15.6	27.8	3.4
Service workers	409	67	342	46.5	15.3	76.9
Private household workers	297	19	279	33.8	4.3	62.7
Other service workers	112	49	63	12.7	11.2	14.2
Farm workers	55	48	7	6.3	10.9	1.6
Farmers and farm managers	6	4	2	.7	.9	.4
Farm laborers and supervisors	49	44	5	5.6	10.0	1.1

**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									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
TOTAL													
Total noninstitutional population ¹	172,966	173,155	173,330	173,495	173,657	173,843	174,020	174,201	174,364	174,544	174,707	174,889	175,069
Armed Forces ¹	2,158	2,158	2,164	2,159	2,168	2,175	2,175	2,175	2,173	2,180	2,196	2,198	2,198
Civilian noninstitutional population ¹	170,809	170,996	171,166	171,335	171,489	171,567	171,844	172,025	172,193	172,364	172,511	172,690	172,881
Civilian labor force.....	109,012	109,272	109,134	108,879	109,165	109,346	109,643	110,655	110,131	110,522	110,644	110,980	110,644
Percent of civilian population.....	63.8	63.9	63.8	53.5	63.7	63.7	63.8	64.3	64.0	64.1	64.1	64.3	64.0
Employed.....	100,343	100,172	99,613	99,581	99,590	99,492	99,340	100,117	99,764	99,732	99,839	99,720	99,093
Percent of total population.....	58.0	57.9	57.5	57.4	57.3	57.2	57.1	57.5	57.2	57.1	57.1	57.0	56.6
Agriculture.....	3,378	3,372	3,209	3,411	3,373	3,349	3,309	3,488	3,357	3,460	3,435	3,368	3,126
Nonagricultural industries.....	96,965	96,800	96,404	96,173	96,217	96,144	95,032	95,629	96,406	96,272	96,404	96,352	95,657
Unemployed.....	8,669	9,100	9,571	9,298	9,575	9,854	13,307	10,549	10,427	10,790	10,805	11,260	11,551
Unemployment rate.....	8.0	8.3	8.9	8.5	8.8	9.0	9.4	9.5	9.5	9.8	9.8	10.1	10.4
Not in labor force.....	61,797	61,724	61,982	62,456	62,324	62,321	62,197	61,360	61,993	61,842	61,867	61,710	62,237
Males, 20 years and over													
Total noninstitutional population ¹	74,502	74,610	74,714	74,810	74,906	75,015	75,121	75,227	75,323	75,429	75,531	75,640	75,749
Civilian noninstitutional population ¹	72,795	72,921	73,020	73,120	73,209	73,287	73,392	73,499	73,585	73,685	73,774	73,867	73,984
Civilian labor force.....	57,355	57,459	57,555	57,353	57,448	57,554	57,730	58,164	58,016	58,084	58,026	58,407	58,359
Percent of civilian population.....	78.8	78.8	79.0	78.5	78.5	78.5	78.7	79.1	78.8	78.8	78.7	79.1	78.9
Employed.....	53,504	53,354	53,122	53,047	53,097	53,006	52,988	53,260	52,985	52,996	52,887	52,828	52,626
Percent of total population.....	71.8	71.5	71.1	70.9	70.9	70.7	70.5	70.8	70.3	70.3	70.0	69.8	69.5
Agriculture.....	2,413	2,382	2,311	2,390	2,386	2,377	2,382	2,454	2,424	2,474	2,436	2,447	2,452
Nonagricultural industries.....	51,091	50,972	50,911	50,657	50,711	50,629	50,606	50,795	50,561	50,522	50,451	50,381	50,164
Unemployed.....	3,851	4,105	4,543	4,322	4,351	4,548	4,742	4,904	5,031	5,088	5,139	5,579	5,733
Unemployment rate.....	6.7	7.1	7.9	7.5	7.6	7.9	8.2	8.4	8.7	8.8	8.9	9.6	9.8
Not in labor force.....	15,440	15,462	15,335	15,752	15,761	15,733	15,662	15,335	15,569	15,601	15,748	15,460	15,625
Females, 20 years and over													
Total noninstitutional population ¹	82,074	82,193	82,306	82,415	82,523	82,640	82,753	82,868	82,976	83,091	83,201	83,320	83,438
Civilian noninstitutional population ¹	81,920	82,038	82,151	82,263	82,367	82,478	82,591	82,707	82,811	82,926	83,035	83,152	83,271
Civilian labor force.....	42,831	42,987	42,888	42,868	43,031	43,243	43,301	43,683	43,904	44,076	44,115	44,025	43,833
Percent of civilian population.....	52.3	52.4	52.2	52.1	52.2	52.4	52.4	52.8	53.0	53.2	53.1	52.9	52.6
Employed.....	39,814	39,878	39,713	39,764	39,744	39,807	39,715	40,075	40,350	40,392	40,490	40,369	40,046
Percent of total population.....	48.5	48.5	49.3	38.2	48.2	48.2	48.0	48.4	48.6	48.6	48.7	48.5	48.0
Agriculture.....	596	635	572	649	628	636	601	634	581	600	589	585	572
Nonagricultural industries.....	39,218	39,243	39,111	39,115	39,116	39,172	33,114	39,441	39,769	39,791	39,901	39,784	39,474
Unemployed.....	3,017	3,109	3,175	3,104	3,286	3,435	3,586	3,608	3,554	3,684	3,626	3,656	3,787
Unemployment rate.....	7.0	7.2	7.4	7.2	7.6	7.9	8.3	8.3	8.1	8.4	8.2	8.3	8.5
Not in labor force.....	39,089	39,051	39,263	39,392	39,336	39,235	39,293	33,024	33,907	38,850	38,920	39,127	39,438
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,390	16,351	16,310	16,263	16,228	16,188	16,146	16,105	16,065	16,024	15,976	15,929	15,982
Civilian noninstitutional population ¹	16,093	16,037	15,995	15,955	15,913	15,902	15,861	15,820	15,794	15,753	15,702	15,671	15,625
Civilian labor force.....	8,826	8,826	8,531	8,643	8,686	8,549	8,616	8,819	8,271	8,362	8,503	8,548	8,452
Percent of civilian population.....	54.8	55.0	54.0	54.2	54.6	53.8	54.3	55.7	52.4	53.1	54.2	54.5	54.1
Employed.....	7,025	6,940	6,778	6,771	6,748	6,679	5,637	5,732	6,429	6,344	6,463	6,523	6,422
Percent of total population.....	42.9	42.4	41.6	41.6	41.6	41.3	41.1	42.1	40.0	39.6	40.5	41.0	40.4
Agriculture.....	369	355	326	373	359	336	326	393	353	386	411	336	393
Nonagricultural industries.....	6,656	6,585	6,452	6,398	6,389	6,343	6,311	6,392	6,076	5,958	6,052	6,187	6,029
Unemployed.....	1,801	1,886	1,853	1,872	1,938	1,870	1,979	2,037	1,842	2,018	2,040	2,025	2,030
Unemployment rate.....	20.4	21.4	21.5	21.7	22.3	21.9	23.0	23.1	22.3	24.1	24.0	23.7	24.0
Not in labor force.....	7,267	7,211	7,364	7,312	7,227	7,353	7,245	7,001	7,523	7,391	7,199	7,123	7,173

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

NOTE: Detail for the household data shown in tables A-33 through A-42 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.

HOUSEHOLD DATA
SEASONALLY ADJUSTED

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

[Numbers in thousands]

Full- and part-time status	1981			1982									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
FULL TIME													
Total, 16 years and over:													
Civilian labor force	93,359	93,607	93,856	93,129	93,421	93,860	93,890	94,619	93,984	94,348	94,404	94,690	94,941
Employed	86,155	86,062	85,729	85,324	85,523	85,505	85,289	95,903	85,112	85,406	85,337	85,091	84,955
Unemployed	7,204	7,545	8,127	7,805	7,897	8,355	8,601	3,717	8,873	8,942	9,067	9,599	9,987
Unemployment rate	7.7	8.1	8.7	8.4	8.5	8.9	9.2	9.2	9.4	9.5	9.6	10.1	13.5
PART TIME													
Total, 16 years and over:													
Civilian labor force	15,690	15,721	15,399	15,853	15,632	15,470	15,836	15,911	16,167	16,215	16,225	16,287	15,841
Employed	14,198	14,125	13,982	14,337	13,951	13,926	14,112	14,237	14,584	14,371	14,552	14,579	14,237
Unemployed	1,492	1,596	1,417	1,515	1,681	1,544	1,724	1,674	1,583	1,844	1,672	1,708	1,604
Unemployment rate	9.5	10.2	9.2	9.6	10.8	10.0	10.9	10.5	9.8	11.4	10.3	10.5	10.1

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									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
WHITE													
Total, 16 years and over:													
Civilian labor force	95,365	95,535	95,329	95,120	95,333	95,508	96,315	96,641	96,223	96,493	96,414	96,762	96,421
Employed	88,734	88,498	88,310	87,955	87,990	87,956	87,988	88,450	88,173	88,137	88,020	87,434	
Unemployed	6,631	7,037	7,319	7,165	7,344	7,552	8,326	3,191	8,350	8,356	8,281	8,742	8,987
Unemployment rate	7.0	7.4	7.7	7.5	7.7	7.9	9.4	8.5	8.4	8.7	8.6	9.0	9.3
Males, 20 years and over:													
Civilian labor force	50,811	50,881	50,948	50,757	50,812	50,903	51,124	51,394	51,252	51,292	51,269	51,607	51,521
Employed	47,790	47,649	47,494	47,410	47,430	47,351	47,393	47,535	47,300	47,256	47,202	47,163	46,983
Unemployed	3,021	3,232	3,499	3,347	3,382	3,552	3,731	3,859	3,952	4,037	4,067	4,444	4,537
Unemployment rate	5.9	6.4	5.9	6.6	6.7	7.0	7.3	7.5	7.7	7.9	7.9	8.6	8.8
Females, 20 years and over:													
Civilian labor force	36,742	36,832	36,733	36,698	36,860	37,038	37,179	37,428	37,619	37,845	37,716	37,708	37,479
Employed	34,517	34,513	34,368	34,380	34,427	34,475	34,389	38,682	38,944	35,067	35,033	34,930	34,637
Unemployed	2,225	2,319	2,365	2,319	2,433	2,564	2,690	2,746	2,675	2,777	2,683	2,777	2,842
Unemployment rate	6.1	6.3	6.4	6.3	6.6	6.9	7.2	7.3	7.1	7.3	7.1	7.4	7.6
Both sexes, 16 to 19 years:													
Civilian labor force	7,812	7,822	7,648	7,665	7,662	7,567	7,712	7,819	7,352	7,356	7,429	7,447	7,422
Employed	6,427	6,336	6,193	6,166	6,133	6,130	6,106	5,233	5,929	5,814	5,899	5,927	5,814
Unemployed	1,385	1,486	1,455	1,499	1,529	1,437	1,606	1,586	1,423	1,542	1,530	1,520	1,608
Unemployment rate	17.7	19.0	19.0	19.6	20.0	19.0	20.8	20.3	19.4	21.0	20.6	20.4	21.7
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	13,697	13,757	13,773	13,704	13,857	13,810	13,768	14,097	13,947	14,027	14,232	14,282	14,306
Employed	11,611	11,661	11,610	11,632	11,653	11,515	11,446	11,669	11,560	11,594	11,738	11,687	11,659
Unemployed	2,086	2,096	2,163	2,072	2,204	2,294	2,322	2,429	2,387	2,433	2,494	2,595	2,647
Unemployment rate	15.2	15.2	15.7	15.1	15.9	15.6	15.9	17.2	17.1	17.3	17.5	18.2	18.5
Males, 20 years and over:													
Civilian labor force	6,573	6,395	6,614	6,563	6,649	6,520	6,704	5,759	6,762	6,784	6,797	6,876	6,899
Employed	5,711	5,694	5,647	5,630	5,688	5,622	5,667	5,709	5,688	5,720	5,703	5,662	5,641
Unemployed	862	901	967	933	961	998	1,037	1,050	1,075	1,063	1,093	1,213	1,258
Unemployment rate	13.1	13.7	14.6	14.2	14.5	15.1	15.5	15.5	15.9	15.7	16.1	17.6	18.2
Females, 20 years and over:													
Civilian labor force	6,096	6,147	6,163	6,152	6,163	6,199	6,145	5,324	6,273	6,247	6,370	6,341	6,365
Employed	5,301	5,359	5,355	5,388	5,339	5,321	5,248	5,407	5,387	5,350	5,474	5,436	5,415
Unemployed	795	788	808	764	826	878	897	917	887	897	896	905	949
Unemployment rate	13.0	12.8	13.1	12.4	13.4	14.2	14.6	14.5	14.1	14.4	14.1	14.3	14.9
Both sexes, 16 to 19 years:													
Civilian labor force	1,028	1,015	996	989	1,044	991	919	1,014	912	997	1,066	1,066	1,043
Employed	599	608	608	614	627	573	531	553	486	524	561	589	603
Unemployed	429	407	388	375	417	418	388	461	426	473	505	477	440
Unemployment rate	41.7	30.1	33.0	37.9	39.9	42.2	42.2	45.5	46.7	47.4	47.4	44.7	42.2

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Category	1981			1982									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
CHARACTERISTIC													
Total (all civilian workers)	8.0	8.3	8.8	8.5	8.8	9.0	9.4	9.5	9.5	9.8	9.8	10.1	10.4
Males, 20 years and over	6.7	7.1	7.9	7.5	7.6	7.9	8.2	8.4	8.7	8.8	8.9	9.6	9.8
Females, 20 years and over	7.0	7.2	7.4	7.2	7.5	7.9	8.3	8.3	8.1	8.4	8.2	8.3	8.6
Both sexes, 16-19 years	20.4	21.4	21.5	21.7	22.3	21.9	23.0	23.1	22.3	24.1	24.0	23.7	24.0
White	7.0	7.4	7.7	7.5	7.7	7.9	8.4	8.5	8.4	8.7	8.6	9.0	9.3
Black and other	15.2	15.2	15.7	15.1	15.9	15.6	15.9	17.2	17.1	17.3	17.5	18.2	18.5
Married men, spouse present	4.9	5.2	5.7	5.3	5.3	5.5	6.0	6.1	6.5	6.6	6.7	7.3	7.6
Married women, spouse present	6.1	6.5	6.6	6.2	7.0	7.1	7.8	7.4	7.0	7.4	7.1	7.5	7.9
Women who maintain families	10.6	10.8	10.5	10.4	10.2	10.5	11.5	11.8	12.4	12.0	11.6	12.4	11.2
Full-time workers	7.7	8.1	8.7	8.4	8.5	8.9	9.2	9.2	9.4	9.5	9.6	10.1	10.5
Part-time workers	9.5	10.2	9.2	9.6	10.8	10.0	10.9	10.5	9.8	11.4	10.3	10.5	10.1
Unemployed 15 weeks and over ¹	2.1	2.2	2.2	2.2	2.5	2.7	2.7	3.0	3.3	3.2	3.3	3.5	3.8
Labor force time lost ²	9.1	9.5	10.1	10.0	9.8	10.4	10.4	11.1	10.2	10.7	10.7	11.7	12.1
OCCUPATION													
White-collar workers	4.1	4.2	4.5	4.2	4.6	4.8	4.9	4.8	5.0	4.9	4.8	4.8	5.1
Professional and technical	2.6	2.7	3.4	2.9	3.1	3.2	3.2	3.3	3.3	3.3	3.1	3.2	3.5
Managers and administrators, except farm	2.8	3.0	3.1	2.7	3.1	3.0	3.3	3.5	3.8	3.7	3.9	3.6	3.6
Sales workers	4.9	5.0	4.9	4.5	4.8	5.8	5.6	5.2	5.8	5.4	5.5	5.4	6.1
Clerical workers	6.0	6.0	6.2	6.3	6.7	6.9	7.2	6.8	6.9	6.9	6.7	6.7	7.1
Blue-collar workers	10.9	11.8	12.7	12.5	12.5	12.9	13.7	13.5	13.9	14.4	14.2	15.6	15.9
Craft and kindred workers	8.3	8.5	9.3	9.0	8.4	9.1	9.6	9.4	10.3	10.9	10.6	11.4	10.9
Operatives, except transport	12.8	14.1	15.5	15.4	15.4	15.9	15.9	15.5	16.7	17.4	17.5	20.2	21.1
Transport equipment operatives	8.0	10.4	10.5	10.2	10.3	10.4	10.7	11.8	13.0	11.6	12.5	11.6	12.7
Nonfarm laborers	15.6	16.0	16.9	16.9	17.9	17.9	19.2	18.3	17.9	18.6	17.4	19.2	19.8
Service workers	9.3	9.7	9.6	9.2	9.8	10.2	11.1	11.3	9.9	10.5	10.6	10.7	10.6
Farm workers	6.2	6.2	6.4	6.9	4.9	5.4	5.8	8.3	7.2	6.1	6.9	5.1	6.6
INDUSTRY													
Nonagricultural private wage and salary workers ³	8.1	8.4	9.1	8.8	9.0	9.5	9.9	9.9	10.0	10.2	10.1	10.7	11.1
Construction	17.5	17.8	18.1	18.7	18.1	17.9	19.4	18.8	19.2	20.3	20.3	22.6	23.0
Manufacturing	8.5	9.4	11.0	10.4	10.5	10.8	11.3	11.5	12.3	12.0	12.1	13.8	14.1
Durable goods	8.6	9.5	11.8	11.0	11.3	10.8	11.9	12.2	13.2	12.7	12.9	14.9	16.0
Nondurable goods	8.6	9.3	9.6	9.5	9.5	10.8	10.5	10.7	11.0	11.0	10.8	12.3	11.2
Transportation	4.8	5.5	6.0	6.4	5.9	5.6	7.0	6.5	6.9	6.1	7.0	6.9	8.1
Wholesale and retail trade	8.4	8.6	8.9	8.7	9.0	10.3	10.1	10.6	9.7	10.5	9.8	9.8	10.3
Finance and service industries	6.2	6.1	6.4	5.9	6.5	5.9	7.0	6.9	6.8	7.0	6.8	7.1	7.1
Government workers	4.7	5.2	5.0	4.8	5.2	4.9	5.3	5.0	4.6	4.6	4.6	4.9	4.8
Agricultural wage and salary workers	13.4	14.1	14.8	16.2	12.3	14.0	14.5	18.2	16.3	13.8	14.3	12.5	12.6

¹ Unemployment as a percent of the civilian labor force.

as a percent of potentially available labor force hours.

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

³ Includes mining, not shown separately.

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

[Numbers in thousands]

Weeks of unemployment	1981			1982									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
DURATION													
Less than 5 weeks	3,707	3,352	4,037	3,852	3,789	3,825	3,958	3,874	3,543	3,990	3,923	4,038	3,920
5 to 14 weeks	2,686	2,882	3,016	3,068	3,052	3,078	3,304	3,320	3,458	3,161	3,304	3,595	3,517
15 weeks and over	2,292	2,354	2,372	2,399	2,724	2,954	3,015	3,286	3,573	3,580	3,631	3,870	4,153
15 to 26 weeks	1,166	1,229	1,189	1,210	1,445	1,505	1,508	1,634	1,826	1,792	1,810	1,856	1,927
27 weeks and over	1,126	1,135	1,183	1,190	1,278	1,349	1,507	1,652	1,847	1,788	1,821	2,014	2,226
Average (mean) duration, in weeks	13.6	13.1	12.8	13.5	14.1	13.9	14.2	14.5	16.5	15.6	16.2	16.6	17.2
Median duration, in weeks	6.8	6.9	5.7	7.2	7.3	7.6	8.5	9.0	9.8	8.3	8.2	9.5	9.6
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	42.7	42.3	42.8	41.3	39.6	38.8	38.5	37.0	33.2	37.2	36.1	35.1	33.8
5 to 14 weeks	30.9	31.7	32.0	32.9	31.9	31.2	32.1	31.7	32.4	29.5	30.4	31.3	30.3
15 weeks and over	26.4	26.0	25.2	25.7	28.5	30.0	29.3	31.4	34.4	33.4	33.4	33.6	35.8
15 to 26 weeks	13.4	13.5	12.6	13.0	15.1	15.3	14.7	15.6	17.1	16.7	16.7	16.1	16.6
27 weeks and over	13.0	12.5	12.6	12.8	13.4	13.7	14.7	15.8	17.3	16.7	16.8	17.5	19.2

HOUSEHOLD DATA
SEASONALLY ADJUSTED

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

Sex and age	1981			1982									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over.....	8.0	8.3	8.8	8.5	8.8	9.0	9.4	9.5	9.5	9.8	9.8	10.1	10.4
16 to 19 years	20.4	21.4	21.5	21.7	22.3	21.9	23.0	23.1	22.3	24.1	24.0	23.7	24.0
16 to 17 years	21.5	22.6	21.9	21.9	22.7	22.7	24.6	25.3	23.7	26.1	25.8	26.9	25.8
18 to 19 years	20.0	20.5	21.2	21.3	22.0	21.3	21.9	21.3	21.9	22.8	22.6	21.6	23.0
20 to 24 years	12.7	13.0	13.5	13.5	14.1	14.2	14.7	14.3	14.4	14.5	15.2	15.3	15.9
25 years and over	5.7	6.0	6.5	6.3	6.4	5.8	7.0	7.1	7.4	7.5	7.3	7.9	8.1
25 to 54 years	6.2	6.5	6.9	6.7	6.9	7.3	7.4	7.7	7.7	7.9	7.8	8.6	8.7
55 years and over	3.8	3.8	4.1	4.2	4.3	4.6	5.0	4.8	5.4	5.2	5.1	5.1	5.5
Males, 16 years and over.....	7.7	8.3	9.0	8.6	8.7	9.0	9.4	9.5	9.7	9.9	10.0	10.7	10.9
16 to 19 years	20.1	21.8	22.3	22.1	22.5	23.5	24.4	24.0	24.2	25.1	25.1	25.3	25.6
16 to 17 years	21.1	22.7	22.6	23.0	23.0	24.3	24.7	26.3	25.8	28.1	27.3	29.6	29.0
18 to 19 years	19.3	21.0	22.2	21.4	22.1	22.9	24.3	21.9	24.0	23.4	23.4	22.6	23.2
20 to 24 years	13.8	14.4	14.8	14.9	15.4	15.7	15.0	15.5	15.8	15.9	16.6	17.4	17.5
25 years and over	5.5	5.8	6.5	6.3	6.3	6.6	6.9	6.9	7.5	7.5	8.2	8.5	8.5
25 to 54 years	5.9	6.3	6.9	6.7	6.7	7.1	7.2	7.5	8.0	8.1	8.0	9.1	9.1
55 years and over	3.7	3.7	4.4	4.3	4.2	4.8	5.1	4.7	5.0	4.8	5.4	5.4	6.1
Females, 16 years and over.....	8.2	8.4	8.5	8.4	8.9	9.0	9.4	9.5	9.1	9.6	9.5	9.5	9.8
16 to 19 years	20.7	20.9	20.5	21.2	22.1	20.1	21.3	22.1	20.2	23.1	22.8	21.9	22.3
16 to 17 years	21.9	22.5	21.1	20.6	22.5	20.8	24.5	24.1	21.4	24.1	24.2	23.9	22.3
18 to 19 years	20.6	19.9	20.0	21.1	21.9	19.6	19.4	20.6	19.7	22.2	21.7	20.6	22.9
20 to 24 years	11.5	11.3	12.0	11.9	12.7	12.6	13.3	12.9	12.9	12.9	13.7	12.9	14.0
25 years and over	6.1	6.4	6.4	6.3	6.5	7.0	7.2	7.4	7.2	7.4	7.0	7.4	7.5
25 to 54 years	6.5	6.8	6.9	6.7	7.0	7.6	7.7	8.0	7.4	7.7	7.5	8.0	8.1
55 years and over	4.0	3.8	3.7	4.1	4.3	4.3	4.8	5.0	6.0	6.0	4.6	4.7	4.7

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

[Numbers in thousands]

Reason for unemployment	1981			1982									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	4,573	4,905	5,343	5,205	5,153	5,622	5,905	5,901	6,302	6,177	6,347	7,073	7,477
On layoff	1,631	1,826	2,042	1,860	1,740	1,828	1,946	1,969	2,071	2,079	2,180	2,669	2,572
Other job losers	2,942	3,079	3,301	3,345	3,413	3,794	3,959	3,932	4,231	4,098	4,157	4,404	4,905
Job leavers	976	916	923	835	964	885	937	874	813	813	806	767	796
Reentrants	2,178	2,339	2,244	2,079	2,277	2,249	2,365	2,438	2,372	2,528	2,440	2,415	2,217
New entrants	1,002	996	1,021	1,055	1,100	1,044	1,081	1,154	1,088	1,249	1,328	1,326	1,312
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	52.4	53.6	56.1	56.7	54.3	57.4	57.4	56.9	59.6	57.4	58.1	61.1	63.4
On layoff	18.7	19.9	21.4	20.3	18.3	18.7	18.9	19.0	19.6	19.3	20.0	23.0	21.8
Other job losers	33.7	33.6	34.6	36.5	35.9	38.7	38.5	37.9	40.0	38.1	38.2	38.0	41.6
Job leavers	11.2	10.0	9.7	9.1	10.2	9.0	9.1	8.4	7.7	7.5	7.4	6.6	6.7
Reentrants	25.0	25.5	23.5	22.7	24.0	22.9	23.0	23.5	22.4	23.5	22.3	20.8	19.3
New entrants	11.5	10.9	10.7	11.5	11.6	10.7	10.5	11.1	10.3	11.6	12.2	11.4	11.1
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	4.2	4.5	4.9	4.8	4.7	5.1	5.0	5.3	5.7	5.6	5.7	6.4	6.8
Job leavers .....	.9	.8	.8	.8	.9	.8	.9	.8	.7	.7	.7	.7	.7
Reentrants	2.0	2.1	2.1	1.9	2.1	2.1	2.2	2.2	2.2	2.3	2.2	2.2	2.0
New entrants .....	.9	.9	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.2

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1981			1982									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over.....	100,343	100,172	99,513	99,531	99,590	99,492	99,340	100,117	99,764	99,732	99,839	99,720	99,093
16 to 19 years	7,025	6,940	6,778	6,771	6,748	6,679	6,637	6,782	6,429	6,344	6,463	6,523	6,422
16 to 17 years	2,769	2,768	2,703	2,705	2,690	2,642	2,610	2,629	2,389	2,342	2,397	2,438	2,429
18 to 19 years	4,260	4,192	4,088	4,065	4,067	4,060	4,027	4,167	4,013	3,998	4,061	4,103	3,990
20 to 24 years	14,078	13,970	13,935	13,816	13,788	13,811	13,730	13,820	13,778	13,723	13,642	13,593	13,464
25 years and over	79,228	79,202	78,831	78,960	79,045	78,978	78,973	79,593	79,598	79,696	79,784	79,587	79,204
25 to 54 years	64,829	64,868	64,567	64,722	64,853	64,648	64,670	65,069	65,197	65,345	65,483	64,980	64,922
55 years and over	14,377	14,337	14,332	14,282	14,158	14,299	14,298	14,449	14,379	14,392	14,327	14,610	14,272
Males, 16 years and over	57,266	57,051	56,725	56,629	56,658	56,472	55,401	56,823	56,223	56,192	56,210	56,148	55,915
16 to 19 years	3,762	3,697	3,603	3,582	3,561	3,466	3,412	3,560	3,238	3,196	3,323	3,323	3,289
16 to 17 years	1,522	1,495	1,448	1,446	1,439	1,387	1,385	1,417	1,237	1,174	1,244	1,222	1,227
18 to 19 years	2,241	2,208	2,163	2,134	2,123	2,094	2,023	2,158	1,985	2,023	2,069	2,112	2,063
20 to 24 years	7,449	7,373	7,380	7,321	7,288	7,246	7,208	7,281	7,194	7,237	7,175	7,097	7,125
25 years and over	46,046	45,940	45,709	45,686	45,786	45,762	45,782	45,967	45,838	45,764	45,744	45,717	45,486
25 to 54 years	37,406	37,364	37,092	37,127	37,235	37,173	37,194	37,351	37,227	37,189	37,269	37,059	37,005
55 years and over	8,621	8,590	8,508	8,582	8,523	8,578	8,591	8,641	8,629	8,576	8,463	8,662	8,475
Females, 16 years and over	43,077	43,121	42,838	42,952	42,932	43,020	42,940	43,297	43,541	43,540	43,630	43,572	43,179
16 to 19 years	3,263	3,243	3,175	3,189	3,187	3,213	3,225	3,222	3,191	3,148	3,140	3,203	3,133
16 to 17 years	1,247	1,273	1,255	1,253	1,251	1,255	1,225	1,212	1,152	1,168	1,153	1,216	1,202
18 to 19 years	2,019	1,984	1,925	1,931	1,944	1,966	2,007	2,009	2,028	1,975	1,992	1,991	1,927
20 to 24 years	6,629	6,597	6,555	6,495	6,500	6,565	6,523	6,539	6,584	6,486	6,467	6,496	6,339
25 years and over	33,182	33,262	33,172	33,274	33,259	33,216	33,192	33,542	33,760	33,932	34,040	33,870	33,718
25 to 54 years	27,423	27,504	27,475	27,595	27,618	27,475	27,476	27,718	27,970	28,155	28,214	27,921	27,917
55 years and over	5,756	5,747	5,724	5,701	5,635	5,721	5,707	5,809	5,750	5,816	5,863	5,948	5,797

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

[In thousands]

Sex and age	1981			1982									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over.....	8,669	9,100	9,571	9,298	9,575	9,854	10,307	10,549	10,427	10,790	10,805	11,260	11,551
16 to 19 years	1,801	1,886	1,953	1,872	1,938	1,870	1,979	2,037	1,842	2,018	2,040	2,025	2,030
16 to 17 years	757	808	759	760	792	775	851	991	742	829	834	896	845
18 to 19 years	1,062	1,080	1,098	1,093	1,149	1,099	1,130	1,126	1,126	1,182	1,184	1,133	1,195
20 to 24 years	2,054	2,088	2,168	2,161	2,271	2,293	2,374	2,303	2,321	2,335	2,454	2,458	2,552
25 years and over	4,828	5,091	5,431	5,282	5,401	5,748	5,962	5,095	6,326	6,428	6,288	6,799	6,979
25 to 54 years	4,255	4,536	4,904	4,649	4,756	5,066	5,186	5,428	5,474	5,625	5,543	6,112	6,184
55 years and over	574	562	620	624	630	691	752	732	824	797	770	789	838
Males, 16 years and over	4,798	5,133	5,578	5,338	5,384	5,610	5,846	6,029	6,065	6,161	6,250	6,704	6,864
16 to 19 years	947	1,028	1,035	1,016	1,033	1,062	1,104	1,125	1,034	1,073	1,111	1,125	1,131
16 to 17 years	408	438	424	433	429	445	454	506	429	458	466	514	500
18 to 19 years	537	587	615	581	604	621	647	606	628	618	633	616	624
20 to 24 years	1,194	1,245	1,278	1,234	1,324	1,346	1,377	1,333	1,347	1,371	1,426	1,495	1,515
25 years and over	2,670	2,834	3,199	3,055	3,071	3,247	3,383	3,422	3,726	3,698	3,726	4,103	4,231
25 to 54 years	2,346	2,522	2,762	2,662	2,675	2,820	2,895	3,031	3,225	3,265	3,259	3,691	3,727
55 years and over	333	333	397	393	377	431	461	429	457	428	485	493	552
Females, 16 years and over	3,871	3,967	3,993	3,960	4,191	4,243	4,461	4,520	4,362	4,629	4,555	4,556	4,586
16 to 19 years	854	858	818	856	905	808	875	912	808	945	929	900	999
16 to 17 years	349	370	335	327	363	330	397	385	313	371	368	382	345
18 to 19 years	525	493	492	517	545	478	483	520	498	564	551	517	571
20 to 24 years	860	843	990	877	947	947	998	969	974	964	1,028	963	1,035
25 years and over	2,158	2,257	2,232	2,228	2,330	2,501	2,578	2,673	2,600	2,730	2,562	2,696	2,748
25 to 54 years	1,909	2,014	2,042	1,987	2,081	2,246	2,291	2,397	2,249	2,360	2,284	2,421	2,457
55 years and over	241	229	223	241	253	260	291	334	367	359	285	296	286

HOUSEHOLD DATA
SEASONALLY ADJUSTED

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

[In thousands]

Category	1981			1982									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
CHARACTERISTIC													
Total, 16 years and over	100,343	100,172	99,613	99,581	99,590	99,492	99,340	100,117	99,764	99,732	99,839	99,720	99,093
Married men, spouse present	38,746	39,553	38,342	38,234	38,255	38,181	38,142	33,312	38,354	38,213	38,184	38,041	37,890
Married women, spouse present	23,874	23,820	23,631	23,744	23,727	23,900	23,831	24,213	24,401	24,223	24,300	24,187	24,047
OCCUPATION													
White-collar workers	53,199	53,086	53,084	52,836	52,841	52,763	53,177	53,705	53,586	53,685	53,750	53,876	53,643
Professional and technical	16,681	16,657	16,774	16,803	16,612	16,659	16,844	16,818	17,053	17,292	17,023	16,901	17,049
Managers and administrators, except farm	11,616	11,461	11,424	11,091	11,253	11,311	11,501	11,541	11,504	11,355	11,513	11,649	11,605
Sales workers	6,400	6,418	6,050	6,520	6,544	6,537	6,503	6,587	6,547	6,567	6,677	6,507	6,595
Clerical workers	18,502	18,550	18,436	18,423	18,432	18,155	18,229	18,759	18,482	18,471	18,437	18,819	18,395
Blue-collar workers	30,953	30,683	30,344	30,203	30,309	30,416	29,924	29,926	29,716	29,609	29,465	29,143	29,147
Craft and kindred workers	12,446	12,411	12,446	12,370	12,454	12,511	12,492	12,316	12,207	12,229	12,342	12,253	12,164
Operatives, except transport	10,410	10,220	10,169	9,966	9,955	9,860	9,588	9,585	9,655	9,453	9,257	8,938	8,945
Transport equipment operatives	3,580	3,438	3,368	3,415	3,503	3,397	3,400	3,419	3,414	3,439	3,268	3,369	3,342
Nonfarm laborers	4,517	4,614	4,361	4,451	4,397	4,548	4,343	4,607	4,441	4,488	4,598	4,583	4,596
Service workers	13,525	13,670	13,639	13,709	13,612	13,526	13,555	13,738	13,791	13,634	13,926	14,029	13,725
Farm workers	2,770	2,802	2,660	2,817	2,787	2,710	2,623	2,731	2,660	2,750	2,711	2,714	2,710
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,502	1,436	1,352	1,377	1,426	1,416	1,423	1,541	1,431	1,530	1,568	1,538	1,608
Self-employed workers	1,631	1,641	1,602	1,674	1,596	1,644	1,664	1,693	1,676	1,674	1,613	1,562	1,616
Unpaid family workers	261	321	228	380	359	277	270	236	251	250	254	255	221
Nonagricultural industries:													
Wage and salary workers	89,460	89,238	88,991	88,759	88,586	88,525	88,322	89,051	88,606	88,541	88,737	88,650	87,995
Government	15,491	15,397	15,595	15,578	15,527	15,492	15,453	15,422	15,535	15,443	15,569	15,691	15,420
Private industries	73,969	73,841	73,406	73,181	73,059	73,134	72,869	73,629	72,970	73,098	73,168	72,959	72,575
Private households	1,162	1,204	1,291	1,248	1,161	1,225	1,192	1,202	1,201	1,200	1,242	1,229	1,220
Other industries	72,807	72,637	72,115	71,932	71,898	71,809	71,677	72,427	71,770	71,898	71,927	71,730	71,355
Self-employed workers	7,152	7,141	7,057	6,971	7,055	7,126	7,264	7,269	7,319	7,268	7,352	7,478	7,333
Unpaid family workers	451	425	410	410	408	434	413	382	397	390	409	372	415
PERSONS AT WORK¹													
Noneconomic industries	91,384	91,323	90,922	90,125	90,892	90,548	90,596	91,282	91,020	90,501	90,508	91,054	90,220
Full-time schedules	73,886	73,915	73,360	72,803	73,028	72,549	72,335	73,036	72,662	72,430	72,112	71,700	71,215
Part-time for economic reasons	5,009	5,326	5,288	5,071	5,563	5,717	5,834	5,763	5,444	5,492	5,648	6,600	6,574
Usually work full-time	2,006	1,945	2,121	1,783	2,193	2,237	2,223	2,211	2,364	2,001	2,054	2,571	2,514
Usually work part-time	3,003	3,081	3,167	3,287	3,370	3,480	3,611	3,552	3,380	3,491	3,594	4,029	4,060
Part time for noneconomic reasons	12,489	12,382	12,274	12,251	12,300	12,183	12,427	12,483	12,914	12,579	12,748	12,754	12,431

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

HOUSEHOLD DATA

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

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninsti- tutional population		Civilian labor force				Unemployed			
			Total		Employed		Number		Percent of labor force	
	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982	Oct. 1981	Oct. 1982
VETERANS										
Total, 25 years and over	8,616	8,718	8,176	8,217	7,678	7,511	498	705	6.1	8.6
25 to 39 years.....	7,314	7,066	7,042	6,787	6,589	6,172	453	615	6.4	9.1
25 to 29 years.....	1,421	1,127	1,340	1,055	1,198	899	142	156	10.6	14.8
30 to 34 years.....	3,231	2,812	3,109	2,696	2,934	2,454	175	242	5.6	9.0
35 to 39 years.....	2,662	3,127	2,593	3,036	2,457	2,819	135	217	5.2	7.1
40 years and over	1,302	1,652	1,134	1,430	1,089	1,339	45	91	4.0	6.4
NONVETERANS										
Total, 25 to 39 years	17,503	18,504	16,537	17,529	15,622	15,913	975	1,616	5.9	9.2
25 to 39 years.....	7,965	8,253	7,498	7,767	6,952	6,905	546	862	7.3	11.1
25 to 29 years.....	5,631	6,127	5,385	5,824	5,117	5,362	268	462	5.0	7.9
30 to 34 years.....	3,907	4,124	3,714	3,938	3,553	3,546	161	292	4.3	7.4

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	Construction	Manufacturing	Total	Transportation 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
Annual averages															
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 ¹	15,679	2,750	5,281	-	-	1,304	3,045	3,299	652	2,647
1935.....	27,039	10,893	897	927	9,069	16,146	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728
1936.....	29,068	11,933	946	1,160	9,827	17,135	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842
1937.....	31,011	12,936	1,015	1,127	10,794	18,075	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923
1938.....	29,194	11,401	891	1,070	9,440	17,793	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054
1939.....	30,603	12,297	854	1,165	10,278	18,306	2,936	6,426	1,762	4,664	1,447	3,502	3,995	905	3,090
1940.....	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206
1941.....	36,539	15,963	957	1,814	13,192	20,574	3,274	7,210	1,960	5,251	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
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 ¹	53,268	20,411	732	3,004	16,675	32,857	4,011	11,127	3,082	8,045	2,549	7,087	8,083	2,233	5,850
1960.....	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083
1961.....	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315
1962.....	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963.....	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868
1964.....	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965.....	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966.....	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967.....	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968.....	67,897	23,737	606	3,350	19,781	44,160	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102
1969.....	70,384	24,361	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,758	9,437
1970.....	70,880	23,578	623	3,588	19,367	47,302	4,515	15,040	3,993	11,047	3,645	11,548	12,554	2,731	9,823
1971.....	71,214	22,935	609	3,704	18,623	48,278	4,476	15,352	4,001	11,351	3,772	11,797	12,881	2,696	10,185
1972.....	73,675	23,668	628	3,889	19,151	50,007	4,541	15,949	4,113	11,836	3,908	12,276	13,334	2,684	10,649
1973.....	76,790	24,893	642	4,097	20,154	51,897	4,656	16,607	4,277	12,329	4,046	12,857	13,732	2,663	11,068
1974.....	78,265	24,794	697	4,020	20,077	53,471	4,725	16,987	4,433	12,554	4,148	13,441	14,170	2,724	11,446
1975.....	76,945	22,600	752	3,525	18,323	54,345	4,542	17,060	4,415	12,645	4,165	13,892	14,686	2,748	11,937
1976.....	79,382	23,352	779	3,576	18,997	56,030	4,582	17,755	4,546	13,209	4,271	14,551	14,871	2,733	12,138
1977.....	82,471	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	958	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
Monthly data, seasonally adjusted															
1981:															
October.....	91,224	25,393	1,195	4,101	20,097	65,831	5,162	20,654	5,380	15,274	5,325	18,773	15,917	2,757	13,160
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
1982:															
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											

ESTABLISHMENT DATA

EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
-	TOTAL	91,623	91,884	89,057	89,446	89,582	-	-	-	-	-
-	PRIVATE SECTOR	76,091	75,884	74,180	74,118	73,783	61,776	61,585	59,868	59,864	59,567
-	MINING	1,201	1,196	1,104	1,083	1,065	886	880	783	771	756
10	METAL MINING	104.3	102.7	62.8	61.8	-	78.5	77.2	44.3	43.7	-
101	Iron ores	21.4	20.9	5.2	5.3	-	16.6	16.2	3.1	3.3	-
102	Copper ores	36.2	35.9	21.3	21.0	-	27.9	27.6	14.9	14.8	-
11, 12	COAL MINING	254.7	251.8	226.5	229.1	-	211.1	208.2	183.1	186.4	-
12	BITUMINOUS COAL AND LIGNITE MINING	251.1	248.3	223.2	225.7	-	207.9	205.0	180.1	183.4	-
13	OIL AND GAS EXTRACTION	718.4	719.6	696.5	573.4	-	500.9	501.2	465.8	449.8	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	273.5	274.2	297.1	290.3	-	118.5	118.4	132.7	130.3	-
138	Oil and gas field services	444.9	445.4	399.4	383.1	-	382.4	382.8	333.1	319.5	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	123.5	121.7	117.8	118.3	-	95.3	93.3	90.2	90.8	-
142	Crushed and broken stone	38.7	38.0	37.7	37.4	-	31.7	31.1	30.3	30.1	-
144	Sand and gravel	36.0	35.2	35.0	35.2	-	-	-	-	-	-
147	Chemical and fertilizer minerals	27.5	27.4	24.2	24.6	-	-	-	-	-	-
-	CONSTRUCTION	4,366	4,340	4,164	4,110	4,095	3,436	3,412	3,246	3,194	3,184
15	GENERAL BUILDING CONTRACTORS	1,124.8	1,111.0	1,028.4	1,003.7	-	857.3	846.9	772.8	747.8	-
152	Residential building construction	537.2	526.4	504.9	491.8	-	394.1	385.8	370.2	357.1	-
153	Operative builders	59.5	57.3	48.9	47.9	-	33.5	32.7	23.8	22.5	-
154	Nonresidential building construction	528.1	527.3	474.6	464.0	-	429.7	428.4	378.8	368.2	-
16	HEAVY CONSTRUCTION CONTRACTORS	973.7	975.5	920.8	917.0	-	793.8	792.7	745.6	742.2	-
161	Highway and street construction	279.9	274.1	262.3	260.7	-	237.4	232.0	223.4	222.1	-
162	Heavy construction, except highway	693.8	701.4	658.5	656.3	-	556.4	560.7	522.2	520.1	-
17	SPECIAL TRADE CONTRACTORS	2,267.1	2,253.3	2,214.8	2,189.3	-	1,785.1	1,772.4	1,727.6	1,704.0	-
171	Plumbing, heating, air conditioning	529.2	530.2	502.9	498.2	-	393.2	393.7	366.4	361.8	-
172	Painting, paper hanging, decorating	145.8	142.1	147.0	142.9	-	122.3	118.5	124.3	120.0	-
173	Electrical work	421.0	420.5	405.1	402.1	-	326.7	326.4	309.1	307.5	-
174	Masonry, stonework, and plastering	341.7	331.3	319.6	319.8	-	292.7	282.6	270.4	270.4	-
175	Carpentering and flooring	123.2	119.8	116.1	115.5	-	92.4	88.9	87.0	86.1	-
176	Roofing and sheet metal work	166.0	167.3	165.6	164.9	-	135.4	136.4	132.8	132.0	-
-	MANUFACTURING	20,499	20,271	18,735	18,803	18,518	14,304	14,079	12,674	12,784	12,538
24, 25, 32-39	DURABLE GOODS	12,272	12,144	10,936	10,987	10,788	8,423	8,297	7,198	7,273	7,104
20-23, 26-31	NONDURABLE GOODS	8,227	8,127	7,799	7,816	7,730	5,881	5,782	5,476	5,511	5,434
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	680.9	654.5	632.9	633.7	625.1	567.8	542.3	522.7	523.5	514.2
241	Logging camps and logging contractors	89.9	86.2	83.5	84.0	-	72.4	68.8	65.8	66.2	-
242	Sawmills and planing mills	207.4	199.0	198.4	199.1	-	183.0	174.8	174.0	175.0	-
2421	Sawmills and planing mills, general	172.2	165.1	167.2	167.2	-	152.4	145.6	147.0	147.3	-
2426	Hardwood dimension and flooring	29.9	28.9	26.9	27.2	-	25.9	24.9	23.2	23.4	-
243	Millwork, plywood, and structural members	191.3	183.9	176.9	177.1	-	157.6	150.8	144.0	143.9	-
2431	Millwork	57.4	64.9	65.2	65.2	-	53.8	51.7	51.4	51.3	-
2434	Wood kitchen cabinets	45.9	45.0	40.2	40.1	-	36.5	35.7	31.5	31.2	-
2435	Hardwood veneer and plywood	25.1	24.6	21.8	21.8	-	22.1	21.7	19.0	18.9	-
2436	Softwood veneer and plywood	39.1	36.5	36.1	36.2	-	35.1	32.5	31.9	32.0	-
244	Wood containers	41.7	40.9	39.4	40.0	-	35.4	34.7	33.0	33.8	-
245	Wood buildings and mobile homes	69.2	64.6	62.0	61.2	-	51.2	46.5	46.0	44.9	-
2451	Mobile homes	50.0	46.9	47.4	46.4	-	38.4	35.4	36.9	35.5	-
249	Miscellaneous wood products	81.4	79.9	72.7	72.3	-	68.2	66.7	59.9	59.7	-
25	FURNITURE AND FIXTURES	474.9	473.9	439.2	444.1	441.2	382.9	381.0	346.5	351.4	348.7
251	Household furniture	299.9	299.6	269.0	274.5	-	250.9	250.1	221.0	226.2	-
2511	Wood household furniture	135.2	133.8	121.3	123.1	-	117.3	116.0	103.9	105.6	-
2512	Upholstered household furniture	90.2	89.7	82.5	83.8	-	73.8	72.9	66.5	67.7	-
2514	Metal household furniture	28.9	31.3	25.1	26.7	-	23.1	25.4	19.4	20.9	-
2515	Mattresses and bedsprings	31.4	30.7	28.9	29.2	-	24.3	23.6	21.6	22.0	-
252	Office furniture	56.0	55.6	54.7	55.0	-	44.0	43.7	41.9	42.3	-
253	Public building and related furniture	24.2	23.9	23.6	23.0	-	18.4	18.1	17.6	17.1	-
254	Partitions and fixtures	63.6	63.7	59.8	59.2	-	47.7	47.5	44.0	43.7	-
259	Miscellaneous furniture and fixtures	31.2	31.1	32.1	32.4	-	21.9	21.6	22.0	22.1	-

See footnotes at end of table.

ESTABLISHMENT DATA
EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
32	STONE, CLAY, AND GLASS PRODUCTS	652.0	639.8	585.6	585.6	577.6	504.7	494.0	445.4	446.7	439.2
321	Flat glass	18.6	18.5	16.2	16.0	-	14.6	14.6	12.8	12.7	-
322	Glass and glassware, pressed or blown	123.0	121.6	111.3	111.5	-	104.4	103.3	93.5	93.7	-
3221	Glass containers	68.6	67.5	64.6	64.0	-	60.4	59.4	56.8	56.3	-
3229	Pressed and blown glass, nec	54.4	54.1	46.7	47.5	-	44.0	43.9	36.7	37.4	-
323	Products of purchased glass	45.5	44.5	41.6	41.3	-	30.5	29.7	27.7	27.5	-
324	Cement, hydraulic	30.6	30.0	28.8	28.9	-	24.3	23.8	22.7	22.8	-
325	Structural clay products	42.2	40.9	34.2	34.4	-	32.0	30.9	24.7	25.1	-
326	Pottery and related products	43.7	43.0	38.5	39.1	-	36.0	35.4	30.8	31.5	-
327	Concrete, gypsum, and plaster products	198.4	194.0	185.0	184.2	-	153.8	149.9	141.9	141.3	-
3271	Concrete block and brick	19.3	19.1	18.7	18.9	-	13.2	13.0	12.7	12.9	-
3272	Concrete products, nec	67.3	65.9	61.6	61.5	-	50.7	49.8	46.2	45.9	-
3273	Ready-mixed concrete	92.1	89.7	86.8	85.9	-	73.9	71.6	68.7	68.0	-
329	Misc. nonmetallic mineral products	137.7	135.1	117.8	117.9	-	99.1	96.3	81.6	82.3	-
3291	Abrasive products	27.8	27.6	23.3	23.8	-	18.7	18.5	14.5	14.7	-
3292	Asbestos products	16.0	15.7	13.9	13.9	-	12.3	12.0	10.2	10.5	-
3298	Mineral wool	30.3	29.2	27.2	27.2	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,131.7	1,102.2	887.5	876.1	842.1	870.6	842.3	654.6	647.2	618.9
331	Blast furnaces and basic steel products	507.8	490.2	372.9	362.4	-	394.4	376.6	275.0	267.4	-
3312	Blast furnaces and steel mills	421.7	406.6	307.8	297.7	-	328.5	313.0	228.0	220.5	-
3317	Steel pipe and tubes	32.7	31.7	24.1	24.2	-	25.5	24.6	17.4	17.6	-
332	Iron and steel foundries	206.4	199.9	154.1	153.0	-	154.2	158.4	117.9	117.0	-
3321	Gray iron foundries	124.5	120.3	93.4	93.2	-	101.6	97.8	73.8	73.5	-
3322	Malleable iron foundries	16.5	15.8	12.0	11.8	-	12.8	12.1	8.8	8.7	-
3325	Steel foundries, nec	52.2	50.6	38.7	37.6	-	41.1	39.8	29.1	28.2	-
333	Primary nonferrous metals	70.0	69.0	56.2	55.7	-	52.5	51.5	40.0	39.9	-
3334	Primary aluminum	36.3	35.5	28.5	28.3	-	28.1	27.3	20.9	20.9	-
336	Nonferrous rolling and drawing	207.0	205.1	182.7	183.8	-	148.5	147.3	128.4	129.8	-
3351	Copper rolling and drawing	30.2	29.1	24.6	25.1	-	22.7	21.8	18.2	18.8	-
3353	Aluminum sheet, plate, and foil	34.9	33.8	30.0	29.9	-	26.9	26.2	22.9	22.9	-
3357	Nonferrous wire drawing and insulating	88.3	87.6	78.2	78.4	-	63.4	62.9	54.5	55.2	-
336	Nonferrous foundries	91.1	89.0	78.5	78.4	-	73.4	71.3	61.6	61.7	-
3361	Aluminum foundries	53.6	51.8	44.9	44.7	-	44.0	42.3	36.1	36.0	-
34	FABRICATED METAL PRODUCTS	1,615.8	1,591.8	1,418.9	1,425.5	1,399.4	1,193.3	1,169.7	1,018.3	1,028.8	1,007.6
341	Metal cans and shipping containers	73.4	68.7	67.5	67.2	-	62.9	58.3	57.2	57.0	-
3411	Metal cans	60.3	56.0	55.5	55.0	-	52.3	48.2	47.9	47.6	-
342	Cutlery, hand tools, and hardware	160.5	158.2	133.0	133.6	-	122.7	120.2	96.0	96.7	-
3423,5	Hand and edge tools, and hand saws and blades	55.5	55.0	43.5	43.7	-	42.4	41.9	31.5	31.6	-
3429	Hardware, nec	89.9	88.1	75.7	76.4	-	69.1	67.2	55.0	55.9	-
343	Plumbing and heating, except electric	70.4	70.2	64.4	66.9	-	51.2	50.7	44.6	47.0	-
3432	Plumbing fittings and brass goods	27.5	26.9	26.6	26.8	-	22.1	21.5	20.8	21.1	-
3433	Heating equipment, except electric	32.2	32.4	27.8	30.0	-	21.8	21.8	17.5	19.4	-
344	Fabricated structural metal products	513.7	507.7	457.9	456.9	-	350.8	345.7	306.5	308.2	-
3441	Fabricated structural metal	101.8	100.5	87.2	86.2	-	72.6	71.8	61.0	60.1	-
3442	Metal doors, sash, and trim	82.8	80.9	79.9	79.8	-	60.3	58.6	58.2	58.3	-
3443	Fabricated plate work (boiler shops)	150.0	148.7	128.9	128.1	-	91.0	90.0	75.5	76.2	-
3444	Sheet metal work	109.0	108.9	100.4	101.0	-	79.6	79.2	71.6	72.4	-
3446	Architectural metal work	30.8	30.4	28.0	28.3	-	21.7	21.1	18.9	19.4	-
345	Screw machine products, bolts, etc.	105.4	104.5	90.1	88.7	-	81.2	80.2	67.0	66.1	-
3451	Screw machine products	48.2	47.8	42.0	41.4	-	39.3	38.7	32.6	32.3	-
3452	Bolts, nuts, rivets, and washers	57.2	56.7	48.1	47.3	-	41.9	41.5	34.4	33.8	-
346	Metal forgings and stampings	262.8	256.3	220.2	225.5	-	208.8	202.9	171.3	176.6	-
3482	Iron and steel forgings	45.0	43.6	32.8	32.5	-	35.2	33.9	24.2	24.2	-
3485	Automotive stampings	96.5	94.8	81.8	86.4	-	80.1	78.6	67.9	72.3	-
3486	Metal stampings, nec	108.6	105.6	94.1	95.0	-	83.7	81.0	70.5	71.4	-
347	Metal services, nec	103.7	103.0	91.6	91.2	-	83.5	82.7	71.9	71.7	-
3471	Plating and polishing	70.8	70.2	62.9	62.9	-	58.0	57.4	50.6	50.8	-
3479	Metal coating and allied services	32.9	32.8	28.7	28.3	-	25.5	25.3	21.3	20.9	-
348	Ordnance and accessories, nec	69.2	70.1	71.0	72.0	-	43.7	44.1	44.8	45.7	-
3483	Ammunition, exc. for small arms, nec	26.2	26.6	27.3	27.7	-	16.4	16.5	17.2	17.5	-
349	Misc. fabricated metal products	256.7	253.1	223.2	223.5	-	188.5	184.9	159.0	159.8	-
3494	Valves and pipe fittings	104.7	103.7	91.2	90.7	-	71.2	70.3	59.6	59.3	-
3496	Misc. fabricated wire products	55.0	54.0	50.5	50.7	-	43.1	41.8	38.2	38.5	-
35	MACHINERY, EXCEPT ELECTRICAL	2,536.2	2,525.1	2,207.7	2,205.4	2,132.4	1,604.8	1,593.2	1,302.6	1,308.5	1,250.1
361	Engines and turbines	136.4	136.2	107.9	109.4	-	88.4	88.1	64.7	66.0	-
3611	Turbine and turbine generator sets	45.7	45.7	41.8	41.8	-	24.4	24.4	22.5	22.7	-
3619	Internal combustion engines, nec	90.7	90.5	66.1	67.6	-	64.0	63.7	42.2	43.3	-
362	Farm and garden machinery	154.4	151.4	120.5	125.2	-	103.3	100.3	74.5	79.8	-
3623	Farm machinery and equipment	133.6	129.2	101.9	105.7	-	88.4	84.1	62.5	67.1	-
363	Construction and related machinery	409.9	409.2	316.7	310.7	-	269.5	268.3	190.4	186.3	-
3531	Construction machinery	146.2	144.9	104.1	106.1	-	97.3	95.4	59.9	62.1	-

See footnotes at end of table.

ESTABLISHMENT DATA
EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
3532	MACHINERY, EXCEPT ELECTRICAL—Continued										
3533	Mining machinery.....	38.7	38.5	31.6	29.5	-	24.0	23.8	18.7	17.2	-
3533	Oil field machinery.....	123.7	124.7	97.9	91.5	-	85.8	86.7	64.5	59.1	-
3535	Conveyors and conveying equipment.....	35.7	35.1	31.4	31.7	-	20.2	19.7	16.6	16.7	-
3537	Industrial trucks and tractors.....	34.8	35.2	27.1	26.4	-	23.0	23.3	16.1	15.6	-
354	Metalworking machinery.....	365.8	364.5	307.0	307.3	-	264.3	263.0	212.3	212.6	-
3541	Machine tools, metal cutting types.....	79.6	78.8	59.1	57.3	-	51.6	50.8	34.7	33.7	-
3542	Machine tools, metal forming types.....	23.4	24.5	19.6	18.8	-	14.4	15.3	11.7	11.1	-
3544	Special dies, tools, jigs, and fixtures.....	138.0	137.5	125.1	125.7	-	109.3	109.0	96.8	97.1	-
3545	Machine tool accessories.....	69.3	68.9	58.4	58.4	-	49.1	48.5	38.7	38.4	-
3546	Power driven hand tools.....	30.8	30.4	22.8	25.6	-	23.5	23.3	16.3	18.5	-
355	Special industry machinery.....	197.5	195.8	176.3	175.4	-	125.1	124.1	106.8	106.6	-
3551	Food products machinery.....	43.3	43.1	40.6	40.8	-	27.5	27.5	25.7	25.9	-
3552	Textile machinery.....	25.8	25.3	21.8	21.6	-	17.7	17.4	14.4	14.3	-
3555	Printing trades machinery.....	38.7	38.7	38.0	37.9	-	24.4	24.3	22.7	22.3	-
356	General industrial machinery.....	323.3	320.5	272.5	266.7	-	210.3	207.1	167.4	165.6	-
3561	Pumps and pumping equipment.....	63.6	63.1	55.0	54.0	-	37.9	37.1	30.7	30.5	-
3562	Ball and roller bearings.....	55.9	55.3	44.5	43.7	-	43.0	42.4	32.6	32.7	-
3563	Air and gas compressors.....	31.9	31.7	28.2	27.8	-	18.8	18.5	15.1	15.1	-
3564	Blowers and fans.....	39.8	39.6	36.7	36.1	-	25.0	24.9	22.4	22.1	-
3566	Speed changers, drives, and gears.....	27.8	27.6	20.8	19.5	-	18.5	18.2	13.3	12.4	-
3568	Power transmission equipment, nec.....	23.4	23.0	17.8	17.9	-	16.6	16.3	11.7	11.9	-
357	Office and computing machines.....	472.8	475.0	492.3	492.6	-	189.3	191.3	190.9	191.4	-
3573	Electronic computing equipment.....	397.9	400.9	425.3	425.4	-	149.5	151.9	157.4	157.6	-
358	Refrigeration and service machinery.....	178.3	176.6	154.6	157.6	-	125.5	123.9	102.9	106.7	-
3586	Refrigeration and heating equipment.....	122.5	120.9	101.8	103.9	-	87.1	85.7	68.4	71.6	-
359	Misc. machinery, except electrical.....	297.8	295.9	259.9	260.5	-	229.1	227.1	192.7	193.5	-
3592	Carburetors, pistons, rings, valves.....	39.2	38.2	34.4	34.9	-	31.6	30.6	26.4	26.9	-
3599	Machinery, except electrical, nec.....	258.6	257.7	225.5	225.6	-	197.5	196.5	166.3	166.6	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT.....	2,120.0	2,113.3	1,998.6	1,999.7	1,984.7	1,332.8	1,323.1	1,200.4	1,208.0	1,197.9
361	Electric distributing equipment.....	122.9	122.4	106.1	106.2	-	87.5	87.0	73.9	74.5	-
3612	Transformers.....	55.3	55.0	48.0	47.6	-	39.3	39.0	34.2	34.1	-
3613	Switchgear and switchboard apparatus.....	67.6	67.4	58.1	58.6	-	48.2	48.0	39.7	40.4	-
362	Electrical industrial apparatus.....	245.1	241.8	204.4	203.3	-	174.8	171.5	141.0	140.3	-
3621	Motors and generators.....	127.0	125.1	103.3	103.7	-	97.8	95.9	77.4	78.2	-
3622	Industrial controls.....	72.5	71.9	64.0	62.3	-	44.5	43.7	38.6	37.0	-
363	Household appliances.....	156.5	162.4	139.0	144.4	-	131.9	127.7	106.7	111.6	-
3632	Household refrigerators and freezers.....	34.9	32.5	28.1	28.1	-	28.6	26.1	22.2	22.0	-
3633	Household laundry equipment.....	22.1	21.5	17.3	19.7	-	17.1	16.6	12.2	14.7	-
3634	Electric housewares and fans.....	54.0	53.3	46.7	48.5	-	43.5	43.0	36.0	37.6	-
364	Electric lighting and wiring equipment.....	203.1	202.8	184.5	184.4	-	149.3	148.8	133.8	134.3	-
3641	Electric lamps.....	32.7	33.1	31.4	30.5	-	28.4	28.9	27.4	26.6	-
3643	Current-carrying wiring devices.....	84.3	83.5	77.1	76.3	-	57.0	56.1	50.9	50.2	-
3644	Noncurrent-carrying wiring devices.....	20.9	20.8	17.3	17.8	-	15.2	15.0	12.3	12.9	-
3645	Residential lighting fixtures.....	24.5	24.6	21.8	22.4	-	18.7	18.7	16.2	16.8	-
365	Radio and TV receiving equipment.....	111.6	110.3	92.6	93.4	-	79.8	78.5	62.8	64.2	-
3651	Radio and TV receiving sets.....	84.8	84.1	72.6	72.5	-	58.6	57.8	49.0	49.0	-
366	Communication equipment.....	553.1	554.7	555.4	554.4	-	267.5	268.6	256.9	256.6	-
3661	Telephone and telegraph apparatus.....	153.1	152.1	139.5	138.8	-	101.7	101.5	89.3	87.9	-
3662	Radio and TV communication equipment.....	400.0	402.6	415.9	415.6	-	165.8	167.1	167.6	168.7	-
367	Electronic components and accessories.....	565.9	567.6	575.5	569.9	-	332.5	332.1	325.3	323.2	-
3671-3	Electronic tubes.....	44.4	44.2	43.6	43.7	-	27.0	26.9	26.5	26.6	-
3674	Semiconductors and related devices.....	224.3	224.8	235.6	231.6	-	92.0	91.8	91.9	92.0	-
3679	Electronic components, nec.....	223.4	225.8	228.3	228.3	-	156.6	157.5	156.2	155.2	-
369	Misc. electrical equipment and supplies.....	151.8	151.3	141.1	143.7	-	109.5	108.9	100.0	103.3	-
3691	Storage batteries.....	30.6	30.9	28.3	29.6	-	24.1	24.3	21.9	23.1	-
3694	Engine electrical equipment.....	63.0	62.4	55.7	56.4	-	48.9	48.4	43.1	44.2	-
37	TRANSPORTATION EQUIPMENT.....	1,904.5	1,888.9	1,674.1	1,725.6	1,701.3	1,219.8	1,208.2	1,024.4	1,075.3	1,049.2
371	Motor vehicles and equipment.....	791.3	793.9	664.8	704.7	-	588.1	592.4	483.0	519.8	-
3711	Motor vehicles and car bodies.....	350.7	359.7	283.7	315.5	-	244.3	254.8	193.0	221.8	-
3713	Truck and bus bodies.....	37.4	36.9	29.2	31.7	-	28.3	28.0	21.2	24.0	-
3714	Motor vehicle parts and accessories.....	370.9	365.3	324.6	330.6	-	290.7	285.3	249.3	254.8	-
3715	Truck trailers.....	27.5	27.0	23.0	21.5	-	21.1	20.6	16.4	15.1	-
372	Aircraft and parts.....	647.3	640.1	595.0	502.5	-	344.3	337.8	294.2	302.9	-
3721	Aircraft.....	344.3	341.1	316.7	317.7	-	168.3	164.7	139.2	142.2	-
3724	Aircraft engines and engine parts.....	162.8	159.3	145.2	150.2	-	93.0	91.3	80.7	84.3	-
3728	Aircraft equipment, nec.....	140.2	139.7	133.1	134.6	-	83.0	81.8	74.3	76.4	-
373	Ship and boat building and repairing.....	231.2	223.8	200.0	204.0	-	176.7	170.1	152.3	156.0	-
3731	Ship building and repairing.....	186.6	179.8	165.1	168.2	-	139.6	133.6	124.3	126.9	-
3732	Boat building and repairing.....	44.6	44.0	34.9	35.8	-	37.1	36.5	28.0	29.1	-
374	Railroad equipment.....	53.9	50.8	36.1	35.2	-	36.6	34.0	22.2	21.9	-
376	Guided missiles, space vehicles, parts.....	123.9	124.5	128.1	128.7	-	36.7	37.0	38.8	40.2	-
3761	Guided missiles and space vehicles.....	97.1	97.6	101.6	101.8	-	26.8	26.9	29.3	30.5	-

See footnotes at end of table.

ESTABLISHMENT DATA
EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	38.9	38.0	38.2	39.8	-	24.9	24.4	25.7	27.2	-
3792	Travel trailers and campers	17.7	17.2	17.4	16.8	-	13.7	13.3	13.3	12.8	-
38	INSTRUMENTS AND RELATED PRODUCTS	732.6	729.6	703.0	599.5	693.9	429.8	426.7	401.8	398.6	393.3
381	Engineering and scientific instruments	78.4	78.5	75.0	74.2	-	37.5	37.6	34.3	34.1	-
382	Measuring and controlling devices	262.1	259.9	241.8	241.1	-	163.8	161.9	145.5	144.9	-
3822	Environmental controls	48.6	47.6	41.8	42.0	-	32.3	31.4	27.2	27.1	-
3823	Process control instruments	62.1	62.1	56.5	55.2	-	32.8	32.5	28.5	27.6	-
3825	Instruments to measure electricity	104.9	104.3	103.9	102.8	-	66.1	66.1	63.1	62.3	-
383	Optical instruments and lenses	33.3	33.1	32.0	32.1	-	18.8	18.6	17.3	17.3	-
384	Medical instruments and supplies	160.9	161.3	160.3	160.2	-	100.5	100.5	97.6	97.9	-
3841	Surgical and medical instruments	75.9	76.1	78.4	78.2	-	45.2	45.6	44.9	45.2	-
3842	Surgical appliances and supplies	68.8	69.1	66.6	67.1	-	45.3	45.0	43.6	43.8	-
385	Ophthalmic goods	39.7	39.1	35.7	35.4	-	28.2	27.5	24.8	24.1	-
386	Photographic equipment and supplies	137.5	137.3	140.1	137.8	-	65.7	65.6	69.5	67.1	-
387	Watches, clocks, and watchcases	20.7	20.4	18.1	18.7	-	15.3	15.0	12.8	13.2	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	423.8	425.0	388.3	392.0	390.6	316.0	316.0	281.4	285.1	284.4
391	Jewelry, silverware, and plated ware	58.7	60.3	58.1	59.6	-	42.2	43.4	41.3	42.3	-
3911	Jewelry, precious metal	38.4	39.5	37.1	38.3	-	27.1	28.0	26.3	27.1	-
393	Musical instruments	21.1	21.7	19.0	19.0	-	17.0	17.4	14.9	15.1	-
394	Toys and sporting goods	124.4	123.8	108.5	108.9	-	95.3	94.7	80.4	80.5	-
3942, 4	Dolls, games, toys, and children's vehicles	66.9	65.9	56.1	56.2	-	50.5	49.5	40.5	40.3	-
3949	Sporting and athletic goods, nec	57.5	57.9	52.4	52.7	-	44.8	45.2	39.9	40.2	-
396	Pens, pencils, office and art supplies	37.8	37.7	34.2	33.9	-	27.1	26.8	23.5	23.2	-
3961	Costume jewelry and notions	46.6	47.0	41.2	41.8	-	35.7	36.1	31.3	32.1	-
399	Miscellaneous manufactures	135.2	134.5	127.3	128.8	-	98.7	97.6	90.0	91.9	-
3993	Signs and advertising displays	47.3	47.3	45.8	46.0	-	34.2	34.3	32.5	32.7	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,763.2	1,719.4	1,727.3	1,735.7	1,690.7	1,238.6	1,197.6	1,205.8	1,218.4	1,174.5
201	Meat products	356.2	353.9	342.3	342.7	-	298.0	296.0	285.9	286.1	-
2011	Meat packing plants	155.9	154.2	143.3	144.5	-	128.4	126.7	117.3	118.5	-
2013	Sausages and other prepared meats	70.5	69.7	69.8	68.8	-	52.7	52.0	52.0	50.9	-
2016	Poultry dressing plants	116.7	116.1	115.2	115.5	-	105.7	105.3	104.3	104.5	-
202	Dairy products	170.8	168.4	171.9	168.3	-	94.9	93.0	97.3	94.9	-
2022	Cheese, natural and processed	35.6	34.7	35.6	35.0	-	27.3	26.5	26.9	26.8	-
2026	Fluid milk	96.6	95.6	94.5	93.2	-	43.3	42.8	43.0	42.5	-
203	Preserved fruits and vegetables	314.2	266.1	301.4	310.0	-	270.9	224.2	259.1	267.3	-
2032	Canned specialties	27.6	26.3	26.5	27.7	-	21.4	20.2	20.0	20.9	-
2033	Canned fruits and vegetables	147.8	103.3	142.2	143.6	-	131.7	88.2	125.3	126.4	-
2037	Frozen fruits and vegetables	56.0	55.0	54.3	60.4	-	49.4	48.0	47.8	54.2	-
204	Grain mill products	140.8	140.8	137.7	137.0	-	97.7	97.2	93.1	93.5	-
2041	Flour and other grain mill products	26.5	26.5	26.7	26.7	-	16.3	16.2	16.0	16.5	-
2048	Prepared feeds, nec	53.5	53.6	52.3	52.0	-	35.1	35.0	33.5	33.1	-
205	Bakery products	220.9	219.5	218.8	218.5	-	129.5	128.1	128.2	128.5	-
2051	Bread, cake, and related products	178.3	176.8	176.9	175.8	-	95.2	93.8	94.9	94.1	-
2052	Cookies and crackers	42.6	42.7	41.9	42.7	-	34.3	34.3	33.3	34.4	-
206	Sugar and confectionery products	107.6	122.9	102.8	108.6	-	82.0	97.2	78.8	84.4	-
2061-3	Cane and beet sugar	28.5	40.8	26.8	29.3	-	20.3	32.4	19.9	22.1	-
2065	Confectionery products	58.7	62.1	54.8	57.9	-	47.8	51.2	44.5	47.5	-
207	Fats and oils	42.2	44.2	41.5	42.2	-	31.3	33.3	30.7	31.3	-
208	Beverages	237.7	233.8	236.7	235.2	-	104.3	101.2	101.5	101.8	-
2082	Malt beverages	50.1	48.7	48.0	47.5	-	31.6	30.8	30.5	30.2	-
2086	Bottled and canned soft drinks	139.2	137.1	143.9	140.7	-	45.8	44.4	47.5	46.0	-
209	Misc. foods and kindred products	172.8	169.8	174.2	173.2	-	130.0	127.4	131.2	130.6	-
21	TOBACCO MANUFACTURES	75.7	75.0	68.2	68.4	68.4	50.1	59.6	54.0	54.2	53.9
211	Cigarettes	47.1	46.6	44.9	44.3	-	35.7	35.3	34.3	33.7	-
22	TEXTILE MILL PRODUCTS	831.9	816.4	737.4	739.7	738.2	721.5	706.0	630.7	634.5	634.2
221	Weaving mills, cotton	140.3	139.0	118.9	119.6	-	124.9	123.6	104.2	105.1	-
222	Weaving mills, synthetics	112.4	108.5	94.3	95.2	-	101.0	97.1	83.3	84.8	-
223	Weaving and finishing mills, wool	18.7	18.5	15.8	15.8	-	15.6	15.5	13.0	13.1	-
224	Narrow fabric mills	24.4	24.1	22.5	22.2	-	21.6	21.3	19.4	19.2	-
225	Knitting mills	221.4	217.4	205.5	206.5	-	191.9	187.9	177.8	178.7	-
2251	Women's hosiery, except socks	31.9	31.9	31.2	31.1	-	28.6	28.6	27.9	27.9	-
2252	Hosiery, nec	33.2	33.2	31.4	31.2	-	30.3	30.2	28.5	28.2	-
2253	Knit outerwear mills	75.0	73.9	71.6	71.9	-	64.0	62.6	61.6	61.9	-
2254	Knit underwear mills	30.0	29.6	27.9	28.2	-	25.9	25.6	23.5	23.8	-

See footnotes at end of table.

ESTABLISHMENT DATA
EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹					
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	
TEXTILE MILL PRODUCTS—Continued												
2257	Circular knit fabric mills	29.5	27.9	24.3	24.8	-	24.9	23.5	20.3	20.8	-	
226	Textile finishing, except wool	70.9	70.6	64.8	64.2	-	59.3	59.0	53.2	52.8	-	
2281	Finishing plants, cotton	29.4	29.8	27.1	26.6	-	24.2	24.6	21.9	21.6	-	
2282	Finishing plants, synthetics	27.2	26.8	24.2	23.9	-	22.8	22.4	20.1	19.8	-	
227	Floor covering mills	53.5	52.5	47.3	47.4	-	43.1	42.1	36.9	37.2	-	
228	Yarn and thread mills	123.2	119.7	109.4	110.0	-	111.2	107.5	97.0	97.8	-	
2281	Yarn mills, except wool	83.2	80.5	75.7	75.9	-	76.3	73.4	68.3	68.6	-	
2282	Throwing and winding mills	20.4	19.9	17.7	17.9	-	18.1	17.6	15.5	15.7	-	
229	Miscellaneous textile goods	67.1	66.1	58.9	58.8	-	52.9	52.0	45.9	45.8	-	
23	APPAREL AND OTHER TEXTILE PRODUCTS		1,270.5	1,257.9	1,151.6	1,161.1	1,154.8	1,083.0	1,071.1	973.3	983.1	975.4
231	Men's and boys' suits and coats	77.9	77.7	73.2	74.3	-	68.0	67.8	64.1	65.1	-	
232	Men's and boys' furnishings	354.6	351.3	323.7	324.9	-	302.5	299.8	274.8	275.9	-	
2321	Men's and boys' shirts and nightwear	99.7	99.4	90.7	90.6	-	85.9	85.7	77.4	77.4	-	
2327	Men's and boys' separate trousers	70.8	71.2	66.9	66.2	-	61.8	62.1	58.0	57.5	-	
2328	Men's and boys' work clothing	133.0	100.3	93.3	95.0	-	85.1	82.8	77.5	79.0	-	
233	Women's and misses' outerwear	416.3	409.5	373.2	375.1	-	358.8	352.1	318.2	319.8	-	
2331	Women's and misses' blouses and waists	62.9	62.9	60.4	59.9	-	54.6	54.7	51.9	51.5	-	
2335	Women's and misses' dresses	139.9	136.1	125.4	127.5	-	123.4	119.7	109.0	110.7	-	
2337	Women's and misses' suits and coats	67.0	62.8	56.0	55.6	-	57.6	53.7	47.4	47.2	-	
2339	Women's and misses' outerwear, nec	146.5	147.7	131.4	132.1	-	123.2	124.0	109.9	110.4	-	
234	Women's and children's undergarments	93.1	93.2	84.5	86.0	-	79.5	79.5	71.5	73.0	-	
2341	Women's and children's underwear	74.5	74.7	69.5	71.0	-	65.0	65.1	60.3	61.6	-	
2342	Brassieres and allied garments	18.6	18.5	15.0	15.0	-	14.5	14.4	11.2	11.4	-	
236	Children's outerwear	64.4	63.9	59.3	59.2	-	54.5	53.8	50.1	50.1	-	
2361	Children's dresses and blouses	27.2	27.5	25.7	25.5	-	24.2	24.3	22.9	22.8	-	
238	Misc. apparel and accessories	59.0	58.8	52.4	52.0	-	50.1	49.9	43.8	43.6	-	
239	Misc. fabricated textile products	181.4	180.5	163.7	167.9	-	149.0	148.3	132.7	137.6	-	
2391	Curtains and draperies	28.2	28.5	25.2	25.8	-	23.6	23.8	20.5	21.1	-	
2392	House furnishings, nec	51.2	51.6	46.9	47.8	-	42.0	42.4	38.9	40.0	-	
2398	Automotive and apparel trimmings	31.4	31.0	26.8	28.3	-	26.2	25.8	21.2	23.2	-	
26	PAPER AND ALLIED PRODUCTS		697.1	686.4	657.7	658.7	649.4	527.0	516.0	490.3	493.6	485.2
261, 2,8	Paper and pulp mills	206.1	201.4	196.6	195.0	-	155.7	151.2	147.5	147.3	-	
262	Paper mills, except building paper	177.4	173.7	170.1	169.0	-	132.7	129.1	126.3	126.4	-	
263	Paperboard mills	63.6	62.7	59.1	60.3	-	50.3	49.3	45.6	46.9	-	
264	Misc. converted paper products	222.9	220.4	212.3	212.2	-	164.2	161.4	153.7	153.9	-	
2641	Paper coating and glazing	55.9	55.7	55.3	54.8	-	36.2	35.7	34.9	34.6	-	
2642	Envelopes	25.4	25.4	24.5	24.7	-	19.8	19.8	18.8	19.0	-	
2643	Bags, except textile bags	50.6	50.4	47.8	48.7	-	39.5	39.2	37.0	38.0	-	
265	Paperboard containers and boxes	204.5	201.9	189.7	191.2	-	156.8	154.1	143.5	145.5	-	
2651	Folding paperboard boxes	44.0	43.2	41.5	42.0	-	34.4	33.6	32.2	32.8	-	
2653	Corrugated and solid fiber boxes	134.5	103.6	96.3	97.4	-	77.4	76.4	70.6	72.0	-	
2654	Sanitary food containers	24.9	24.6	24.3	24.0	-	20.2	19.9	19.4	19.1	-	
27	PRINTING AND PUBLISHING		1,270.0	1,274.5	1,264.4	1,264.7	1,263.8	699.3	700.5	690.3	692.6	692.0
271	Newspapers	422.6	425.4	423.5	423.3	-	161.4	162.5	160.3	160.4	-	
272	Periodicals	97.4	98.1	100.9	100.3	-	19.1	19.8	21.6	21.7	-	
273	Books	97.3	97.2	97.3	95.0	-	48.0	47.7	49.2	46.9	-	
2731	Book publishing	68.8	69.0	68.5	67.4	-	24.8	24.9	26.0	24.9	-	
2732	Book printing	28.5	28.2	28.8	27.6	-	23.2	22.8	23.2	22.0	-	
274	Miscellaneous publishing	47.2	47.7	48.7	48.0	-	25.3	24.9	24.6	24.4	-	
275	Commercial printing	421.2	422.1	411.5	415.5	-	309.9	310.1	301.4	305.1	-	
2751	Commercial printing, letterpress	156.7	157.0	149.0	151.5	-	116.2	115.9	110.3	112.5	-	
2752	Commercial printing, lithographic	242.0	242.4	240.2	241.7	-	175.4	176.3	173.4	175.0	-	
276	Manifold business forms	49.4	49.5	48.7	48.8	-	34.4	34.5	34.0	34.3	-	
278	Blankbooks and bookbinding	64.0	63.3	62.9	62.7	-	52.2	51.7	51.2	51.1	-	
279	Printing trade services	44.5	45.0	44.6	45.0	-	32.8	33.1	32.8	33.4	-	
28	CHEMICALS AND ALLIED PRODUCTS		1,110.1	1,104.4	1,074.6	1,066.2	1,057.7	629.8	623.3	595.0	592.8	587.7
281	Industrial inorganic chemicals	160.2	158.6	153.4	151.6	-	87.9	86.4	80.4	80.3	-	
2819	Industrial inorganic chemicals, nec	105.4	104.1	100.8	100.1	-	57.5	56.5	52.7	53.5	-	
282	Plastics materials and synthetics	195.1	192.6	180.6	179.7	-	129.2	126.3	116.3	116.1	-	
2821	Plastics materials and resins	79.0	78.1	73.9	73.0	-	46.8	45.9	43.2	42.7	-	
2824	Organic fibers, noncellulosic	82.6	81.7	75.8	75.9	-	58.2	57.2	52.4	52.9	-	
283	Drugs	199.9	200.3	201.1	198.9	-	100.2	99.9	98.1	96.8	-	
2834	Pharmaceutical preparations	158.0	158.3	158.4	156.6	-	77.6	77.5	76.0	74.8	-	
284	Soap, cleaners, and toilet goods	147.2	146.6	149.1	148.1	-	93.1	92.5	93.8	94.3	-	
2841	Soap and other detergents	44.5	44.1	45.5	45.2	-	29.4	29.2	29.7	29.7	-	
2844	Toilet preparations	63.5	63.2	64.2	63.5	-	42.5	42.1	42.6	43.1	-	
2842, 3	Polishing, sanitation, and finishing preparations	39.2	39.3	39.4	39.4	-	21.2	21.2	21.5	21.5	-	
285	Paints and allied products	63.3	63.1	60.6	59.7	-	31.2	30.9	29.6	29.0	-	
286	Industrial organic chemicals	179.7	179.2	174.1	173.1	-	90.2	89.8	87.6	87.2	-	

See footnotes at end of table.

ESTABLISHMENT DATA
EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2885	Cyclic crudes and intermediates.....	38.0	37.8	35.5	35.6	-	23.5	23.4	21.7	21.8	-
2861,9	Gum, wood, and industrial organic chemicals, nec.....	141.7	141.4	138.6	137.5	-	66.7	66.4	65.9	65.4	-
287	Agricultural chemicals.....	69.5	69.7	64.5	64.0	-	43.0	43.3	38.3	38.0	-
289	Miscellaneous chemical products.....	95.2	94.3	91.2	91.1	-	55.0	54.2	50.9	51.1	-
29	PETROLEUM AND COAL PRODUCTS	218.0	216.8	209.4	211.2	210.3	135.8	134.5	125.8	127.7	128.6
291	Petroleum refining.....	175.3	175.0	168.2	170.3	-	105.2	104.7	96.1	98.5	-
295	Paving and roofing materials.....	30.5	29.6	29.4	29.2	-	23.1	22.4	22.5	22.2	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	752.9	740.0	696.7	701.0	690.0	584.2	572.1	533.8	539.1	530.0
301	Tires and inner tubes.....	107.4	106.6	99.3	101.2	-	74.4	73.9	70.5	72.4	-
302	Rubber and plastics footwear.....	22.6	20.5	21.0	21.0	-	19.9	17.9	18.1	18.3	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting.....	24.6	24.0	19.4	20.2	-	17.4	17.0	13.4	14.0	-
306	Fabricated rubber products, nec.....	107.7	105.7	95.0	95.3	-	84.3	82.5	72.0	72.7	-
307	Miscellaneous plastics products.....	490.6	483.2	462.0	463.3	-	388.2	380.8	359.8	361.7	-
31	LEATHER AND LEATHER PRODUCTS	237.4	235.8	211.6	209.1	206.0	201.6	200.8	177.4	175.0	172.2
311	Leather tanning and finishing.....	21.5	21.1	18.4	18.1	-	18.3	17.8	15.1	14.9	-
314	Footwear, except rubber.....	143.7	142.5	130.3	129.3	-	124.3	123.4	111.5	110.2	-
3143	Men's footwear, except athletic.....	58.9	58.3	50.5	50.4	-	50.5	50.2	41.8	41.4	-
3144	Women's footwear, except athletic.....	51.6	51.4	49.8	49.1	-	44.7	44.4	43.8	43.2	-
316	Luggage.....	15.3	14.3	12.9	12.3	-	11.6	11.1	9.4	8.9	-
317	Handbags and personal leather goods.....	31.2	31.9	27.1	26.7	-	25.6	26.2	22.2	21.9	-
-	TRANSPORTATION AND PUBLIC UTILITIES	5,227	5,208	5,035	5,077	5,067	4,338	4,318	4,150	4,197	4,189
40	RAILROAD TRANSPORTATION	497.0	493.2	429.7	425.2	-	-	-	-	-	-
4011	Class I railroads ²	457.9	454.1	395.8	391.6	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	285.4	289.8	228.9	297.1	-	265.9	269.7	210.6	278.2	-
411	Local and suburban transportation.....	83.2	82.8	84.4	85.7	-	76.0	75.3	78.0	78.7	-
412	Taxis.....	46.2	46.3	43.7	43.4	-	-	-	-	-	-
413	Intercity highway transportation.....	39.7	37.7	38.7	38.2	-	36.2	34.5	35.6	35.2	-
415	School buses.....	97.6	103.9	44.5	111.2	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,273.8	1,268.0	1,213.8	1,217.4	-	1,112.2	1,106.2	1,055.0	1,059.2	-
421,3	Trucking and trucking terminals.....	1,185.1	1,175.5	1,129.6	1,131.9	-	1,037.3	1,027.6	984.5	987.5	-
422	Public warehousing.....	88.7	92.5	84.2	85.5	-	74.9	78.6	70.5	71.7	-
44	WATER TRANSPORTATION	222.8	214.5	190.2	194.9	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	456.5	451.3	444.5	442.5	-	-	-	-	-	-
451,2	Air transportation.....	404.8	399.9	393.6	390.7	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	22.1	22.0	22.8	22.3	-	15.5	15.2	15.7	15.4	-
47	TRANSPORTATION SERVICES	220.0	219.5	226.2	222.9	-	-	-	-	-	-
48	COMMUNICATION	1,391.3	1,393.8	1,395.7	1,383.4	-	1,039.2	1,039.3	1,058.1	1,050.0	-
481	Telephone communication.....	1,077.7	1,078.9	1,066.8	1,052.4	-	782.9	781.5	786.2	776.8	-
483	Radio and television broadcasting.....	208.7	209.5	217.7	218.4	-	168.6	170.0	177.7	178.0	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	857.6	855.7	883.3	871.3	-	701.7	699.8	714.6	702.2	-
491	Electric services.....	407.2	406.7	420.9	417.2	-	329.3	328.5	335.5	331.3	-
492	Gas production and distribution.....	175.9	174.7	183.8	179.3	-	143.2	141.7	148.5	143.8	-
493	Combination utility services.....	199.7	199.5	200.5	197.2	-	164.8	165.0	164.0	160.5	-
495	Sanitary services.....	51.3	51.5	54.3	54.3	-	45.0	45.4	47.1	47.6	-
-	WHOLESALE AND RETAIL TRADE	20,731	20,731	20,566	20,561	20,520	18,125	18,138	17,954	17,949	17,919
50,51	WHOLESALE TRADE	5,388	5,400	5,294	5,271	5,270	4,380	4,392	4,273	4,253	4,253
50	WHOLESALE TRADE - DURABLE GOODS	3,187	3,194	3,116	3,098	-	2,583	2,588	2,499	2,481	-
501	Motor vehicles and automotive equipment.....	414.5	414.8	415.0	412.9	-	334.9	335.3	334.0	332.0	-
502	Furniture and home furnishings.....	117.8	118.9	116.9	117.5	-	96.2	97.2	96.2	96.8	-
503	Lumber and construction materials.....	190.7	188.4	183.1	182.9	-	156.8	155.0	149.4	149.4	-
504	Sporting goods, toys, and hobby goods.....	71.8	71.8	71.8	72.6	-	57.1	57.4	58.0	59.0	-
505	Metals and minerals, except petroleum.....	153.2	152.4	136.1	134.9	-	123.1	122.4	107.6	106.5	-
506	Electrical goods.....	435.1	436.7	434.5	432.1	-	349.5	351.2	347.8	344.7	-
507	Hardware, plumbing, and heating equipment.....	243.9	243.4	236.1	235.7	-	198.3	198.0	190.4	189.6	-

See footnotes at end of table.

ESTABLISHMENT DATA
EMPLOYMENT

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

{In thousands}

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
	WHOLESALE TRADE-DURABLE GOODS— Continued										
508	Machinery, equipment, and supplies	1,353.3	1,363.3	1,346.4	1,333.9	-	1,092.5	1,099.1	1,070.0	1,057.5	-
509	Miscellaneous durable goods	206.4	204.0	175.8	175.5	-	174.6	171.9	145.4	145.0	-
	WHOLESALE TRADE-NONDURABLE GOODS	2,201	2,206	2,178	2,173	-	1,797	1,804	1,774	1,772	-
51	Paper and paper products	154.7	155.7	158.4	157.5	-	125.2	125.7	127.6	127.1	-
511	Drugs, proprietaries, and sundries	150.2	151.4	154.4	153.3	-	126.8	128.0	130.2	129.4	-
512	Apparel, piece goods, and notions	169.9	169.3	170.3	170.0	-	132.9	133.1	133.0	132.6	-
513	Groceries and related products	670.7	667.2	653.7	652.3	-	576.9	573.7	561.0	559.9	-
514	Chemicals and allied products	133.9	133.5	137.0	136.3	-	96.3	96.2	97.5	96.7	-
516	Petroleum and petroleum products	233.8	233.2	232.1	229.0	-	175.6	175.5	173.9	171.4	-
517	Beer, wine, and distilled beverages	143.7	141.1	147.0	145.4	-	120.4	118.1	122.6	121.0	-
518	Miscellaneous nondurable goods	397.3	399.5	396.2	396.5	-	322.1	323.9	323.2	323.5	-
52-59	RETAIL TRADE	15,343	15,331	15,272	15,290	15,250	13,745	13,746	13,681	13,696	13,666
52	BUILDING MATERIALS AND GARDEN SUPPLIES	608.9	607.6	594.3	590.5	-	513.2	511.7	500.8	496.7	-
521	Lumber and other building materials	320.2	317.6	311.7	309.5	-	271.0	268.7	263.7	261.2	-
525	Hardware stores	149.9	149.6	147.5	145.6	-	127.4	127.3	126.1	124.1	-
53	GENERAL MERCHANDISE STORES	2,222.7	2,262.2	2,196.9	2,218.7	-	2,017.3	2,061.6	2,035.7	2,058.1	-
531	Department stores	1,863.0	1,900.9	1,843.8	1,865.9	-	1,692.8	1,735.9	1,717.6	1,739.9	-
533	Variety stores	231.3	232.3	219.8	220.6	-	214.4	215.5	202.5	203.5	-
539	Misc. general merchandise stores	128.4	129.0	133.3	132.2	-	110.1	110.2	115.6	114.7	-
54	FOOD STORES	2,444.6	2,447.3	2,464.2	2,470.2	-	2,272.2	2,274.9	2,283.2	2,290.7	-
541	Grocery stores	2,149.0	2,148.0	2,164.1	2,171.5	-	2,003.4	2,003.0	2,011.8	2,020.3	-
542	Meat markets and freezer provisioners	55.0	54.8	55.6	55.6	-	-	-	-	-	-
546	Retail bakeries	127.4	127.9	126.7	126.5	-	117.3	117.9	116.1	116.1	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	1,657.2	1,652.9	1,652.9	1,644.8	-	1,406.2	1,402.0	1,394.9	1,385.6	-
551,2	New and used car dealers	749.9	747.5	737.0	736.5	-	614.6	611.5	605.0	603.9	-
553	Auto and home supply stores	270.4	272.1	277.2	276.6	-	234.3	236.9	238.8	237.9	-
554	Gasoline service stations	558.3	556.5	554.3	550.9	-	489.8	487.7	483.0	479.7	-
56	APPAREL AND ACCESSORY STORES	958.5	966.4	956.4	956.5	-	819.6	826.2	811.1	810.0	-
561	Men's and boys' clothing and furnishings	126.0	128.0	123.5	124.2	-	106.9	108.9	104.3	104.7	-
562	Women's ready-to-wear stores	345.3	351.3	344.7	344.1	-	299.3	304.7	295.4	295.3	-
565	Family clothing stores	177.9	177.7	178.3	176.6	-	155.8	155.5	155.5	153.8	-
566	Shoe stores	206.9	203.6	210.0	209.1	-	169.9	166.5	170.7	168.9	-
57	FURNITURE AND HOME FURNISHINGS STORES	597.7	603.8	587.5	588.9	-	493.1	498.9	484.0	485.4	-
571	Furniture and home furnishings stores	371.9	373.8	360.0	359.7	-	307.9	309.6	297.0	296.7	-
572	Household appliance stores	78.7	80.6	81.8	81.5	-	66.9	68.5	69.6	69.4	-
573	Radio, television, and music stores	147.1	149.4	145.7	147.7	-	118.3	120.8	117.4	119.3	-
58	EATING AND DRINKING PLACES	4,891.9	4,792.0	4,864.7	4,847.5	-	4,512.5	4,420.5	4,472.1	4,454.3	-
59	MISCELLANEOUS RETAIL	1,961.7	1,998.3	1,954.8	1,973.0	-	1,711.3	1,749.9	1,698.7	1,715.1	-
591	Drug stores and proprietary stores	497.8	503.6	494.7	495.0	-	449.6	454.1	442.4	441.8	-
592	Liquor stores	133.3	136.6	134.2	134.5	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	627.0	634.9	632.2	542.5	-	536.8	547.2	539.2	549.3	-
596	Nonstore retailers	272.4	286.7	269.2	278.8	-	251.7	266.1	248.5	258.0	-
598	Fuel and ice dealers	100.3	103.8	100.1	100.3	-	83.0	86.5	82.5	82.5	-
599	Retail stores, nec	258.0	269.8	260.8	259.7	-	223.7	226.4	218.1	217.3	-
-	FINANCE, INSURANCE, AND REAL ESTATE?	5,327	5,314	5,414	5,370	5,351	4,024	4,010	4,058	4,016	4,000
60	BANKING	1,632.3	1,633.0	1,662.9	1,547.1	-	1,245.9	1,245.9	1,245.3	1,231.7	-
602	Commercial and stock savings banks	1,487.2	1,487.9	1,515.8	1,501.5	-	1,129.4	1,129.2	1,127.7	1,115.7	-
61	CREDIT AGENCIES OTHER THAN BANKS	582.0	582.4	587.8	585.5	-	440.7	441.7	443.9	441.3	-
612	Savings and loan associations	263.7	265.1	274.9	274.3	-	199.2	200.8	209.7	209.0	-
614	Personal credit institutions	201.3	200.4	193.0	192.4	-	155.4	154.9	147.4	146.3	-
62	SECURITY, COMMODITY BROKERS, AND SERVICES	267.6	268.2	280.7	278.0	-	-	-	-	-	-
621	Security brokers and dealers	221.0	221.8	233.9	231.7	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,229.3	1,227.2	1,227.5	1,220.4	-	848.9	846.0	838.8	831.3	-
631	Life insurance	538.3	538.2	542.5	539.3	-	334.0	334.2	334.2	330.6	-

See footnotes at end of table.

ESTABLISHMENT DATA
EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	141.8	141.6	141.0	140.6	-	112.1	111.9	112.2	111.9	-
633	Fire, marine, and casualty insurance	474.7	473.8	472.7	469.0	-	344.3	342.5	337.7	333.9	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	466.5	469.0	477.7	476.5	-	-	-	-	-	-
65	REAL ESTATE	1,007.0	992.1	1,026.2	1,012.2	-	-	-	-	-	-
651	Real estate operators and lessors	475.9	471.0	496.5	490.9	-	-	-	-	-	-
653	Real estate agents and managers	380.1	373.9	383.7	379.6	-	-	-	-	-	-
655	Subdividers and developers	131.0	127.8	128.1	123.8	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC.	19.3	19.2	19.2	19.1	-	-	-	-	-	-
87	HOLDING AND OTHER INVESTMENT OFFICES	122.7	122.4	131.9	130.9	-	-	-	-	-	-
-	SERVICES	18,740	18,824	19,162	19,114	19,164	16,663	16,748	17,003	16,953	16,981
70	HOTELS AND OTHER LODGING PLACES	1,153.8	1,106.7	1,209.1	1,118.7	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	1,110.1	1,073.8	1,127.9	1,074.3	-	1,017.7	980.9	1,035.7	982.0	-
72	PERSONAL SERVICES	897.7	907.1	905.3	915.7	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	350.4	352.8	347.6	348.3	-	312.9	315.2	309.5	310.5	-
723	Beauty shops	285.8	286.2	294.1	297.7	-	265.1	264.6	270.4	274.5	-
726	Funeral service and crematories	71.2	71.1	74.7	74.8	-	-	-	-	-	-
73	BUSINESS SERVICES	3,311.7	3,337.6	3,323.2	3,321.2	-	2,893.2	2,918.0	2,896.9	2,894.2	-
731	Advertising	154.9	155.3	158.8	159.8	-	118.9	119.4	122.2	122.4	-
732	Credit reporting and collection	75.9	75.8	75.6	75.7	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	129.7	133.6	129.6	130.9	-	-	-	-	-	-
734	Services to buildings	523.0	522.6	541.3	535.5	-	474.7	474.7	493.6	487.0	-
736	Personnel supply services	625.4	625.1	560.5	566.9	-	-	-	-	-	-
737	Computer and data processing services	341.8	345.1	355.4	356.1	-	280.0	282.1	289.7	291.5	-
75	AUTO REPAIR, SERVICES, AND GARAGES	576.0	575.8	584.7	582.7	-	490.4	491.6	493.8	492.0	-
753	Automotive repair shops	357.6	356.3	366.0	363.3	-	302.1	301.5	305.6	303.4	-
76	MISCELLANEOUS REPAIR SERVICES	299.4	301.5	292.5	292.6	-	252.3	255.0	246.9	246.3	-
78	MOTION PICTURES	223.2	217.2	225.7	215.6	-	193.5	187.4	196.0	185.6	-
781	Motion picture production and services	81.1	85.2	78.5	77.7	-	66.3	69.7	63.9	62.8	-
783	Motion picture theaters	130.9	121.0	137.0	127.4	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	826.7	750.7	967.3	901.0	-	751.6	676.7	884.5	816.5	-
80	HEALTH SERVICES	5,612.3	5,635.9	5,832.9	5,823.2	-	5,022.3	5,046.3	5,221.6	5,214.7	-
801	Offices of physicians	795.2	797.3	830.6	829.2	-	654.1	656.3	678.2	678.4	-
802	Offices of dentists	362.7	367.1	387.2	388.1	-	319.8	324.5	341.0	343.8	-
805	Nursing and personal care facilities	1,039.7	1,040.6	1,077.6	1,076.2	-	941.0	942.1	976.1	974.1	-
806	Hospitals	2,930.4	2,945.4	3,030.0	3,021.4	-	2,688.1	2,702.1	2,784.0	2,774.3	-
81	LEGAL SERVICES	536.7	541.2	578.2	571.9	-	457.1	460.4	489.3	483.5	-
82	EDUCATIONAL SERVICES	1,119.3	1,264.1	981.0	1,120.5	-	-	-	-	-	-
821	Elementary and secondary schools	297.7	312.3	264.8	293.0	-	-	-	-	-	-
822	Colleges and universities	706.6	830.2	597.7	707.7	-	-	-	-	-	-
83	SOCIAL SERVICES	1,144.8	1,148.8	1,184.1	1,196.0	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,511.8	1,526.5	1,529.5	1,524.4	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	1,048.4	1,048.8	1,066.8	1,056.7	-	870.7	868.5	869.9	859.3	-
891	Engineering and architectural services	574.2	572.6	575.0	566.3	-	483.7	479.0	472.5	464.3	-
893	Accounting, auditing, and bookkeeping	334.1	336.0	350.4	351.0	-	269.0	271.8	279.1	278.5	-
-	GOVERNMENT	15,529	16,000	14,877	15,328	15,802	-	-	-	-	-
-	FEDERAL GOVERNMENT	2,735	2,737	2,772	2,704	2,704	-	-	-	-	-
-	Executive, by agency ⁴	2,680.8	2,683.3	2,720.0	2,648.9	-	-	-	-	-	-
-	Department of Defense	903.3	914.8	964.2	944.2	-	-	-	-	-	-
-	Postal Service	650.2	665.0	664.2	559.4	-	-	-	-	-	-
-	Other executive agencies	1,117.3	1,103.5	1,091.6	1,045.3	-	-	-	-	-	-
-	Legislative	38.5	38.4	36.6	39.1	-	-	-	-	-	-
-	Judicial	15.5	15.3	15.6	15.8	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
FEDERAL GOVERNMENT—Continued											
—	Federal Government, by industry										
3731	Manufacturing activities	129.1	132.9	138.1	130.0	—	—	—	—	—	—
—	Shipbuilding and repairing	75.7	78.9	81.9	76.1	—	—	—	—	—	—
—	Transportation and public utilities, except	42.4	42.9	42.4	41.1	—	—	—	—	—	—
—	Postal Service	395.4	390.6	403.8	395.9	—	—	—	—	—	—
806	Services	231.0	230.0	237.4	234.6	—	—	—	—	—	—
—	Federal government hospitals										
—	STATE AND LOCAL GOVERNMENT	12,794	13,263	12,105	12,624	13,098	—	—	—	—	—
806	State government	3,546.8	3,699.7	3,375.4	3,190.6	—	—	—	—	—	—
82	State government hospitals	517.6	518.8	516.0	512.6	—	—	—	—	—	—
—	State education	1,336.5	1,497.7	1,140.3	1,314.9	—	—	—	—	—	—
—	General administration including executive, legislative, and judicial functions	1,047.8	1,048.0	1,070.4	1,030.2	—	—	—	—	—	—
—	Local government	9,246.9	9,563.0	8,729.4	9,133.0	—	—	—	—	—	—
806	Transportation and public utilities	581.0	571.2	587.1	585.5	—	—	—	—	—	—
82	Local government hospitals	629.1	631.6	650.6	548.7	—	—	—	—	—	—
—	Local education	4,920.2	5,311.6	4,135.3	4,765.4	—	—	—	—	—	—
—	General administration including executive, legislative, and judicial functions	2,798.0	2,746.1	2,995.9	2,808.6	—	—	—	—	—	—

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

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

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

⁴ Prepared by the Office of Personnel Management. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

— 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 BIC Code	Industry	July 1981	Aug. 1981	June 1982	July 1982	Aug. 1982
-	TOTAL	38,363	38,411	39,358	38,407	38,533
-	PRIVATE SECTOR	31,289	31,460	31,578	31,363	31,440
-	MINING	134	137	141	138	138
10	METAL MINING	10.0	10.0	6.4	5.8	5.7
11, 12	COAL MINING	11.1	11.4	11.5	11.5	11.4
13	OIL AND GAS EXTRACTION	103.0	105.0	113.0	111.3	110.6
131, 2	Crude petroleum, natural gas, and natural gas liquids	66.0	66.7	71.1	71.6	72.1
138	Oil and gas field services.....	37.0	38.3	41.9	39.7	38.5
14	NONMETALLIC MINERALS, EXCEPT FUELS	10.3	10.2	9.7	9.7	9.8
142	Crushed and broken stone	2.8	2.8	2.8	2.7	2.8
144	Sand and gravel	3.3	3.2	3.1	3.2	3.2
-	CONSTRUCTION	391	391	386	387	387
15	GENERAL BUILDING CONTRACTORS	130.8	131.1	121.9	122.7	122.2
152	Residential building construction.....	74.5	75.7	69.8	70.5	70.3
153	Operative builders	14.8	14.5	13.4	13.5	13.5
154	Nonresidential building construction	41.5	40.9	38.7	38.7	38.4
16	HEAVY CONSTRUCTION CONTRACTORS	67.5	67.2	66.5	66.4	67.9
161	Highway and street construction	19.4	19.2	15.4	16.1	16.5
162	Heavy construction, except highway	48.1	48.0	51.1	50.3	51.4
17	SPECIAL TRADE CONTRACTORS	192.8	192.5	197.2	198.1	197.3
171	Plumbing, heating, air conditioning	52.4	52.2	52.9	52.8	52.6
172	Painting, paper hanging, decorating	12.0	11.9	11.9	12.4	12.1
173	Electrical work	36.7	36.8	38.0	38.2	38.3
174	Masonry, stonework, and plastering	21.6	21.8	21.0	21.6	21.4
175	Carpentering and flooring	14.6	14.1	13.7	13.9	13.7
176	Roofing and sheet metal work	12.6	12.6	12.7	12.6	12.7
-	MANUFACTURING	6,333	6,445	6,049	5,906	6,007
24, 25, 32-39	DURABLE GOODS	3,046	3,061	2,880	2,822	2,813
20-23, 26-31	NONDURABLE GOODS	3,287	3,384	3,169	3,084	3,194
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	104.2	104.2	92.2	91.4	92.2
241	Logging camps and logging contractors	5.7	5.6	5.7	5.8	6.0
242	Sawmills and planing mills	20.2	20.3	17.7	17.8	18.0
2421	Sawmills and planing mills, general	14.5	14.5	12.4	12.4	12.6
243	Millwork, plywood, and structural members	41.5	41.3	35.7	35.3	35.5
244	Wood containers	7.0	6.9	6.9	6.7	6.6
245	Wood buildings and mobile homes	8.8	8.9	7.3	7.4	7.4
249	Miscellaneous wood products	21.0	21.2	18.9	18.4	18.7
25	FURNITURE AND FIXTURES	138.8	141.7	131.2	126.1	130.4
251	Household furniture	97.3	98.3	89.6	84.8	87.8
2511	Wood household furniture	41.1	41.7	37.7	36.3	38.1
2512	Upholstered household furniture	31.7	32.2	29.1	28.1	28.9
2515	Mattresses and bedsprings	8.6	8.7	7.8	7.6	7.8
252	Office furniture	13.7	14.3	13.7	13.4	13.7
253	Public building and related furniture	5.1	5.5	5.3	5.2	5.2
254	Partitions and fixtures	10.7	11.0	10.2	10.1	10.6
259	Miscellaneous furniture and fixtures	12.0	12.6	12.4	12.6	13.1
32	STONE, CLAY, AND GLASS PRODUCTS	127.3	128.3	116.7	115.6	114.7
322	Glass and glassware, pressed or blown	41.0	41.5	36.7	36.8	36.5
3221	Glass containers	23.4	23.6	21.8	21.7	21.8
3229	Pressed and blown glass, nec	17.6	17.9	14.9	15.1	14.7
323	Products of purchased glass	13.1	12.9	12.1	12.1	11.8
324	Cement, hydraulic	1.9	1.9	1.7	1.7	1.7
325	Structural clay products	6.4	6.5	5.7	5.6	5.6
326	Pottery and related products	14.7	15.2	13.5	13.2	13.5
327	Concrete, gypsum, and plaster products	15.3	15.2	14.9	14.8	14.7
329	Misc. nonmetallic mineral products	31.7	31.8	28.9	28.1	27.6
33	PRIMARY METAL INDUSTRIES	125.0	125.5	106.0	104.2	102.0
331	Blast furnace and basic steel products	42.6	42.6	30.9	30.0	29.2
3312	Blast furnaces and steel mills	32.2	31.8	21.9	21.4	21.0
332	Iron and steel foundries	18.0	17.6	15.9	15.6	14.7

ESTABLISHMENT DATA
WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	July 1981	Aug. 1981	June 1982	July 1982	Aug. 1982
PRIMARY METAL INDUSTRIES—Continued						
3321	Gray iron foundries	8.7	8.8	7.0	6.9	6.8
3322	Malleable iron foundries	1.1	1.1	1.0	1.0	.9
3325	Steel foundries, nec	4.5	4.5	3.9	3.9	3.9
333	Primary nonferrous metals	5.2	5.2	4.3	4.2	4.1
3334	Primary aluminum	2.4	2.4	1.8	1.7	1.7
335	Nonferrous rolling and drawing	38.4	38.7	34.9	34.6	33.9
3351	Copper rolling and drawing	3.5	3.5	3.0	3.0	3.0
3353	Aluminum sheet, plate, and foil	4.1	4.1	3.2	3.2	3.1
3357	Nonferrous wire drawing and insulating	22.6	23.0	21.5	21.3	20.7
336	Nonferrous foundries	15.0	15.5	14.5	14.4	14.7
3361	Aluminum foundries	7.8	8.1	7.5	7.6	7.8
34	FABRICATED METAL PRODUCTS	337.8	338.0	307.5	298.7	300.7
341	Metal cans and shipping containers	12.9	12.8	12.0	11.6	11.7
3411	Metal cans	11.0	11.0	10.1	9.8	9.9
342	Cutlery, hand tools, and hardware	54.6	53.8	46.2	45.4	45.2
3423, 5	Hand and edge tools, and hand saws and blades	15.4	15.5	13.1	12.6	12.7
3429	Hardware, nec	32.4	31.5	27.1	26.7	26.3
343	Plumbing and heating, except electric	17.0	17.2	16.5	16.2	16.1
344	Fabricated structural metal products	73.9	73.6	67.8	67.6	67.4
3441	Fabricated structural metal	7.8	7.8	7.1	6.9	6.9
3442	Metal doors, sash, and trim	21.7	21.7	20.3	20.6	20.8
3443	Fabricated plate work (boiler shops)	19.0	18.8	17.1	17.1	16.9
3444	Sheet metal work	15.5	15.5	14.4	14.4	14.3
345	Screw machine products, bolts, etc.	23.6	23.5	21.0	20.5	20.2
3451	Screw machine products	11.5	11.3	10.5	10.2	10.0
3452	Bolts, nuts, rivets, and washers	12.1	12.2	10.5	10.3	10.2
346	Metal forgings and stampings	52.3	52.5	46.3	43.2	45.2
3462	Iron and steel forgings	4.3	4.3	3.4	3.3	3.4
3465	Automotive stampings	14.0	13.6	12.9	12.3	11.9
3469	Metal stampings, nec	31.4	32.1	27.6	25.3	27.6
347	Metal services, nec	24.1	24.1	22.6	20.8	21.6
3471	Plating and polishing	17.3	17.6	16.7	15.1	16.0
3479	Metal coating and allied services	6.8	6.5	5.9	5.7	5.6
348	Ordnance and accessories, nec	19.4	19.5	20.3	20.2	20.0
349	Misc. fabricated metal products	60.0	61.0	54.8	53.2	53.3
3494	Valves and pipe fittings	23.3	23.5	20.9	20.2	20.2
3496	Misc. fabricated wire products	13.9	14.4	13.7	13.1	13.4
35	MACHINERY, EXCEPT ELECTRICAL	509.6	511.2	492.7	480.7	473.1
351	Engines and turbines	23.5	23.9	20.6	20.0	20.7
3511	Turbines and turbine generator sets	6.6	6.5	6.4	6.3	6.2
3519	Internal combustion engines, nec	16.9	17.4	14.2	13.7	14.5
352	Farm and garden machinery	24.0	24.9	22.9	19.8	20.2
3523	Farm machinery and equipment	19.2	19.0	16.3	15.3	14.9
353	Construction and related machinery	53.5	53.8	49.2	47.1	45.2
3531	Construction machinery	15.4	15.4	13.6	12.9	12.4
3533	Oil field machinery	17.7	17.9	17.7	16.6	15.8
354	Metalworking machinery	58.6	59.0	51.1	49.1	48.1
3541	Machine tools, metal cutting types	10.7	10.6	8.6	8.1	8.0
3544	Special dies, tools, jigs, and fixtures	16.6	16.9	14.9	14.6	14.6
3545	Machine tool accessories	13.8	13.8	12.1	11.7	11.5
355	Special industry machinery	30.2	29.9	27.6	26.9	26.8
3551	Food products machinery	5.7	5.7	5.4	5.2	5.3
3552	Textile machinery	4.9	5.0	4.5	4.3	4.2
3556	Printing trades machinery	6.9	6.7	7.2	7.1	7.1
356	General industrial machinery	63.7	63.3	58.1	55.9	54.1
3561	Pumps and pumping equipment	11.5	11.7	10.5	10.4	10.1
3562	Ball and roller bearings	13.7	13.6	13.1	12.3	11.5
357	Office and computing machines	169.1	170.3	181.9	183.0	181.8
3573	Electronic computing equipment	142.3	143.7	156.0	157.0	156.7
358	Refrigeration and service machinery	38.0	37.0	35.0	34.1	32.5
3585	Refrigeration and heating equipment	25.1	24.9	23.2	22.6	21.0
359	Misc. machinery, except electrical	49.0	49.1	46.3	44.8	43.7
3599	Machinery, except electrical, nec	38.9	39.2	37.2	36.1	35.1
36	ELECTRIC AND ELECTRONIC EQUIPMENT	891.9	895.1	864.8	846.8	845.9
361	Electric distributing equipment	45.1	46.0	42.1	40.3	40.3
3612	Transformers	18.7	19.4	17.4	17.4	17.5
3613	Switchgear and switchboard apparatus	26.4	26.6	24.7	22.9	22.8
362	Electrical industrial apparatus	91.9	91.5	81.5	78.4	76.6
3621	Motors and generators	50.6	50.2	43.8	41.5	40.5
3622	Industrial controls	29.0	28.9	27.0	26.7	26.1
363	Household appliances	60.8	58.7	53.2	50.1	49.3
3632	Household refrigerators and freezers	10.7	8.2	8.5	7.5	7.1
3633	Household laundry equipment	5.0	4.9	3.5	4.0	3.2
3634	Electric housewares and fans	28.5	29.5	26.4	23.9	25.7
364	Electric lighting and wiring equipment	90.8	91.5	84.1	80.6	82.4
3641	Electric lamps	19.4	19.7	19.4	18.4	19.3

ESTABLISHMENT DATA
WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	July 1981	Aug. 1981	June 1982	July 1982	Aug. 1982
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	40.5	41.0	37.3	35.2	36.5
365	Radio and TV receiving equipment	56.5	56.9	50.0	48.2	48.4
3651	Radio and TV receiving sets	42.2	42.5	38.2	36.9	37.1
366	Communication equipment	211.7	211.9	210.0	209.7	208.2
3661	Telephone and telegraph apparatus	74.3	74.1	68.3	68.1	66.9
3662	Radio and TV communication equipment	137.4	137.8	141.7	141.6	141.3
367	Electronic components and accessories	282.1	284.6	288.8	285.8	286.0
3671-3	Electronic tubes	16.7	16.4	16.2	16.0	16.0
3674	Semiconductors and related devices	102.5	102.8	106.5	107.8	107.2
3679	Electronic components, nec	114.3	116.6	119.9	118.6	119.6
369	Misc. electrical equipment and supplies	53.0	54.0	55.1	53.7	54.7
3694	Engine electrical equipment	23.0	23.5	24.8	24.0	24.7
37	TRANSPORTATION EQUIPMENT	312.3	308.8	286.2	286.0	278.2
371	Motor vehicles and equipment	113.9	109.9	100.6	100.8	96.6
3711	Motor vehicles and car bodies	42.7	38.1	33.5	34.6	32.5
3713	Truck and bus bodies	4.2	4.1	3.3	3.4	3.0
3714	Motor vehicle parts and accessories	63.7	64.7	60.4	59.3	58.1
372	Aircraft and parts	124.5	124.7	117.5	117.5	114.2
3721	Aircraft	68.6	69.8	64.9	64.7	63.2
3724	Aircraft engines and engine parts	28.6	27.9	25.6	25.5	24.6
3728	Aircraft equipment, nec	27.3	27.0	27.0	27.3	26.4
373	Ship and boat building and repairing	25.5	26.0	23.2	23.1	22.8
3731	Ship building and repairing	19.2	19.7	17.0	17.1	16.7
374	Railroad equipment	5.9	5.7	4.1	4.0	4.0
376	Guided missiles, space vehicles, parts	27.9	28.1	29.4	29.5	29.6
3761	Guided missiles and space vehicles	22.7	22.9	24.1	24.2	24.3
379	Miscellaneous transportation equipment	7.5	7.4	7.2	6.9	6.9
38	INSTRUMENTS AND RELATED PRODUCTS	309.4	312.7	304.3	298.8	297.4
381	Engineering and scientific instruments	24.5	24.7	24.3	24.0	23.8
382	Measuring and controlling devices	110.8	112.1	105.2	102.9	101.8
3822	Environmental controls	23.9	24.3	21.1	20.5	20.3
3823	Process control instruments	20.7	21.1	19.6	18.9	18.4
3825	Instruments to measure electricity	47.9	48.4	47.9	47.5	47.2
383	Optical instruments and lenses	11.9	11.7	11.7	11.7	11.4
384	Medical instruments and supplies	85.6	87.0	88.4	86.5	87.0
3841	Surgical and medical instruments	42.8	42.9	44.0	43.4	43.2
3842	Surgical appliances and supplies	34.9	36.3	36.7	35.5	36.3
385	Ophthalmic goods	24.1	24.4	22.4	21.7	21.6
386	Photographic equipment and supplies	41.0	40.7	41.5	41.7	40.8
387	Watches, clocks, and watchcases	11.5	12.1	10.8	10.3	11.0
39	MISCELLANEOUS MANUFACTURING					
391	INDUSTRIES	190.1	195.4	178.4	173.3	178.1
393	Jewelry, silverware, and plated ware	24.1	24.9	25.3	24.1	25.8
394	Musical instruments	9.9	9.8	8.6	8.6	8.6
3942, 4	Toys and sporting goods	63.3	64.4	56.3	56.2	56.7
3949	Dolls, games, toys, and children's vehicles	35.5	36.4	30.0	30.1	31.5
395	Sporting and athletic goods, nec	27.8	28.0	26.3	26.1	25.2
396	Pens, pencils, office and art supplies	20.4	20.5	18.6	18.1	18.0
399	Costume jewelry and notions	24.7	26.8	23.7	21.5	23.2
	Miscellaneous manufactures	47.7	49.0	45.9	44.8	45.8
NONDURABLE GOODS						
20	FOOD AND KINDRED PRODUCTS	510.4	548.1	479.3	504.5	540.2
201	Meat products	117.2	117.4	114.4	113.5	114.4
2011	Meat packing plants	28.3	29.3	26.6	26.2	26.5
2013	Sausages and other prepared meats	21.4	21.1	21.2	21.1	21.0
2016	Poultry dressing plants	61.4	50.9	59.6	59.4	59.9
202	Dairy products	38.2	37.5	37.3	37.6	37.3
2028	Fluid milk	17.1	16.8	16.4	16.4	16.2
203	Preserved fruits and vegetables	107.6	140.3	86.2	109.6	138.7
2032	Canned specialties	8.3	9.9	8.0	8.1	9.4
2033	Canned fruits and vegetables	43.9	70.9	23.0	41.0	66.9
2037	Frozen fruits and vegetables	20.2	23.1	21.5	23.2	25.4
204	Grain mill products	29.0	29.7	28.7	28.1	28.8
205	Bakery products	57.4	57.6	58.6	58.9	58.5
2051	Bread, cake, and related products	38.1	38.5	39.3	39.4	39.1
2052	Cookies and crackers	19.3	19.1	19.3	19.5	19.4
206	Sugar and confectionery products	38.6	42.1	38.3	37.7	41.9
207	Fats and oils	5.8	5.7	5.8	5.8	5.8
208	Beverages	42.5	43.2	44.0	43.5	43.1
2082	Malt beverages	8.1	8.2	8.4	8.2	8.1
2086	Bottled and canned soft drinks	19.2	19.2	20.0	20.1	19.9
209	Misc. foods and kindred products	74.1	74.6	66.0	69.8	71.7
21	TOBACCO MANUFACTURES	23.0	27.6	21.4	20.9	24.8
211	Cigarettes	15.3	15.1	14.4	14.6	13.8

ESTABLISHMENT DATA
WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	July 1981	Aug. 1981	June 1982	July 1982	Aug. 1982
22	TEXTILE MILL PRODUCTS	388.9	395.2	355.8	346.7	353.1
221	Weaving mills, cotton	60.9	61.2	53.3	52.2	51.9
222	Weaving mills, synthetics	46.3	46.5	36.0	37.4	38.5
223	Weaving and finishing mills, wool	6.8	7.2	6.5	6.1	6.1
224	Narrow fabric mills	13.9	14.6	13.5	11.8	13.1
225	Knitting mills	140.3	141.6	134.1	130.7	133.5
2251	Women's hosiery, except socks	24.5	25.0	24.3	23.9	24.1
2252	Hosiery, nec	24.0	23.9	22.3	22.3	22.4
2253	Knit outerwear mills	51.0	52.0	50.1	48.4	50.2
2264	Knit underwear mills	21.9	21.9	20.7	20.0	20.7
2257	Circular knit fabric mills	11.2	11.3	9.7	9.3	9.2
228	Textile finishing, except wool	20.4	21.5	20.5	19.8	20.0
2281	Finishing plants, cotton	9.1	9.9	9.7	9.4	9.4
2282	Finishing plants, synthetic	5.8	5.9	5.4	5.2	5.3
227	Floor covering mills	22.2	22.8	20.9	20.0	20.0
228	Yarn and thread mills	59.1	60.4	54.1	52.2	53.5
2281	Yarn mills, except wool	38.1	38.7	35.1	34.2	35.3
2282	Throwing and winding mills	11.4	11.8	10.3	9.5	9.9
228	Miscellaneous textile goods	19.0	19.4	16.9	16.5	16.5
23	APPAREL AND OTHER TEXTILE PRODUCTS	980.3	1,015.7	951.4	875.6	926.7
231	Men's and boys' suits and coats	58.3	60.3	58.4	54.0	56.5
232	Men's and boys' furnishings	290.6	298.4	280.3	265.1	272.7
2321	Men's and boys' shirts and nightwear	84.0	85.7	82.6	78.5	79.2
2327	Men's and boys' separate trousers	59.2	60.9	57.1	54.7	55.9
2328	Men's and boys' work clothing	82.3	94.7	79.8	75.1	77.7
233	Women's and misses' outerwear	334.2	351.1	323.0	279.4	315.1
2331	Women's and misses' blouses and waists	54.8	55.8	53.4	43.9	53.5
2335	Women's and misses' dresses	111.0	120.6	110.1	95.9	107.1
2337	Women's and misses' suits and coats	50.5	54.0	46.4	41.7	45.2
2339	Women's and misses' outerwear, nec	117.9	120.7	113.1	97.9	109.3
234	Women's and children's undergarments	77.2	79.0	73.9	71.4	72.7
2341	Women's and children's underwear	62.2	63.9	61.3	59.1	60.9
2342	Brasieres and allied garments	15.0	15.1	12.6	12.3	11.8
238	Children's outerwear	55.1	53.7	53.7	52.4	50.9
2381	Children's dresses and blouses	24.1	23.5	23.4	22.6	22.9
238	Misc. apparel and accessories	41.8	44.9	40.5	36.7	40.1
239	Misc. fabricated textile products	106.8	111.9	105.3	100.9	103.2
2391	Curtains and draperies	20.4	22.0	18.8	18.0	18.6
2392	House furnishings, nec	29.6	31.4	29.9	28.8	30.7
2396	Automotive and apparel trimmings	13.3	14.5	14.1	13.4	13.6
26	PAPER AND ALLIED PRODUCTS	161.7	164.2	153.5	151.9	152.5
261, 2,8	Paper and pulp mills	28.8	28.8	27.6	27.5	27.2
262	Paper mills, except building paper	25.9	25.9	24.9	24.8	24.5
263	Paperboard mills	6.1	6.1	5.6	5.4	5.4
264	Misc. converted paper products	78.8	79.8	75.2	74.3	74.6
265	Paperboard containers and boxes	48.0	49.5	45.1	44.7	45.3
27	PRINTING AND PUBLISHING	505.8	507.8	516.2	512.8	512.9
271	Newspapers	161.5	162.2	166.1	166.0	164.5
272	Periodicals	57.2	57.3	59.2	59.5	59.6
273	Books	53.1	52.9	52.7	52.1	51.7
274	Miscellaneous publishing	26.5	26.0	27.6	27.2	27.4
275	Commercial printing	131.2	131.7	133.2	130.6	132.0
2751	Commercial printing, letterpress	51.9	51.9	51.4	50.4	50.7
2752	Commercial printing, lithographic	72.9	73.2	75.6	74.2	75.3
276	Manifold business forms	15.8	16.0	15.8	15.7	15.7
278	Blankbooks and bookbinding	33.8	34.6	33.9	33.9	34.0
279	Printing trade services	11.7	11.5	12.7	12.8	12.7
28	CHEMICALS AND ALLIED PRODUCTS	287.3	285.6	283.1	280.5	280.6
281	Industrial inorganic chemicals	24.1	24.2	24.5	24.4	24.3
2819	Industrial inorganic chemicals, nec	16.2	16.3	16.3	16.3	16.2
282	Plastics materials and synthetics	43.7	42.9	40.9	40.1	39.5
2821	Plastics materials and resins	11.8	11.7	11.1	11.0	11.0
2824	Organic fibers, noncellulosic	22.2	22.0	21.6	21.1	20.6
283	Drugs	86.9	85.7	86.6	86.2	86.4
2834	Pharmaceutical preparations	72.9	72.2	72.3	71.7	72.0
284	Soap, cleaners, and toilet goods	59.8	60.0	59.2	59.6	60.7
2841	Soap and other detergents	10.0	10.1	10.1	10.0	10.4
2844	Toilet preparations	37.3	37.4	36.9	37.4	37.7
285	Paints and allied products	12.5	12.4	11.8	11.6	11.6
286	Industrial organic chemicals	28.0	28.2	28.2	27.8	27.6
2861,9	Gum, wood, and industrial organic chemicals, nec	23.3	23.4	23.7	23.4	23.2
287	Agricultural chemicals	11.0	10.8	10.8	10.3	9.9
289	Miscellaneous chemical products	21.3	21.4	21.1	20.5	20.6

ESTABLISHMENT DATA
WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	July 1981	Aug. 1981	June 1982	July 1982	Aug. 1982
29	PETROLEUM AND COAL PRODUCTS	32.2	32.3	32.2	32.4	32.2
291	Petroleum refining	26.8	27.0	27.1	27.2	27.1
30	RUBBER AND MISC. PLASTICS PRODUCTS	260.8	264.8	247.2	240.6	244.7
301	Tires and inner tubes	10.5	10.4	9.3	9.0	9.0
302	Rubber and plastics footwear	13.5	13.7	13.1	13.0	12.8
303,4	Reclaimed rubber, and rubber and plastics hose and belting	7.4	7.2	5.1	5.0	4.9
306	Fabricated rubber products, nec	36.5	37.1	33.5	32.6	33.4
307	Miscellaneous plastics products	192.9	196.4	186.2	181.0	184.6
31	LEATHER AND LEATHER PRODUCTS	136.3	143.0	129.2	118.4	126.6
311	Leather tanning and finishing	2.7	3.0	2.7	2.6	2.7
314	Footwear, except rubber	93.3	97.2	88.0	80.1	86.4
3143	Men's footwear, except athletic	34.4	36.9	32.1	28.9	31.4
3144	Women's footwear, except athletic	37.4	37.5	34.5	32.2	34.4
316	Luggage	7.9	7.8	7.6	7.1	6.9
317	Handbags and personal leather goods	20.1	21.1	18.5	16.8	17.9
—	TRANSPORTATION AND PUBLIC UTILITIES	1,328	1,333	1,348	1,322	1,319
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	42.8	41.6	79.1	49.5	47.1
411	Local and suburban transportation	14.8	14.9	16.8	15.8	16.5
412	Taxis	6.5	6.2	6.6	6.3	6.1
413	Intercity highway transportation	4.8	4.9	4.9	4.9	4.9
415	School buses	13.9	12.8	47.2	19.3	16.3
42	TRUCKING AND WAREHOUSING	154.1	155.0	153.6	154.3	154.4
421,3	Trucking and trucking terminals	138.0	137.7	137.0	137.9	137.2
422	Public warehousing	16.1	17.3	16.6	16.4	17.2
44	WATER TRANSPORTATION	25.2	25.4	26.0	25.8	25.3
45	TRANSPORTATION BY AIR	152.1	152.6	144.0	146.3	146.6
451,2	Air transportation	143.2	143.5	134.1	136.5	136.8
46	PIPE LINES, EXCEPT NATURAL GAS	3.3	3.3	3.3	3.3	3.2
47	TRANSPORTATION SERVICES	103.1	108.5	115.2	115.9	116.8
48	COMMUNICATION	653.1	652.9	630.2	628.8	627.9
481	Telephone communication	558.1	557.4	525.0	523.8	522.8
483	Radio and television broadcasting	67.6	67.6	73.5	72.8	72.7
49	ELECTRIC, GAS, AND SANITARY SERVICES	167.6	167.6	172.8	174.2	174.4
491	Electric services	77.7	77.7	81.7	82.4	82.5
492	Gas production and distribution	40.5	40.4	41.0	41.1	41.2
493	Combination utility services	37.8	37.9	37.9	38.4	38.6
495	Sanitary services	6.5	6.4	6.6	6.8	6.6
—	WHOLESALE AND RETAIL TRADE	8,937	8,992	9,117	9,079	9,077
50,51	WHOLESALE TRADE	1,388	1,398	1,407	1,396	1,393
50	WHOLESALE TRADE-DURABLE GOODS	773	776	779	771	770
501	Motor vehicles and automotive equipment	88.3	88.5	91.0	90.5	90.3
502	Furniture and home furnishings	43.9	44.4	45.5	45.6	46.3
503	Lumber and construction materials	36.7	36.8	37.0	37.0	37.1
504	Sporting goods, toys, and hobby goods	24.0	24.0	24.5	24.2	24.2
505	Metals and minerals, except petroleum	29.7	29.6	27.6	27.1	26.8
506	Electrical goods	125.8	126.7	128.4	127.1	127.7
507	Hardware, plumbing, and heating equipment	66.2	66.1	64.7	64.2	64.1
508	Machinery, equipment, and supplies	312.0	312.1	314.8	311.7	309.7
509	Miscellaneous durable goods	46.8	47.7	45.1	43.5	43.6
51	WHOLESALE TRADE-NONDURABLE GOODS	615	622	628	625	623
511	Paper and paper products	49.1	48.8	50.4	51.0	51.4
512	Drugs, proprietaries, and sundries	64.8	65.0	67.5	68.2	68.1
513	Apparel, piece goods, and notions	82.8	83.5	85.2	85.2	84.7
514	Groceries and related products	156.4	160.8	158.1	155.1	148.8
516	Chemicals and allied products	35.9	35.8	37.9	37.9	38.1
517	Petroleum and petroleum products	55.6	55.3	56.0	56.0	56.2
518	Beer, wine, and distilled beverages	22.2	22.2	22.1	22.2	22.0
519	Miscellaneous nondurable goods	117.5	117.8	121.4	120.9	121.9

ESTABLISHMENT DATA

WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	July 1981	Aug. 1981	June 1982	July 1982	Aug. 1982
52-59	RETAIL TRADE	7,549	7,594	7,710	7,683	7,684
52	BUILDING MATERIALS AND GARDEN SUPPLIES	161.7	159.6	159.2	155.0	155.5
521	Lumber and other building materials	65.2	64.6	64.2	63.4	63.3
525	Hardware stores	56.5	55.7	55.7	54.9	55.5
53	GENERAL MERCHANDISE STORES	1,422.5	1,438.3	1,476.2	1,481.0	1,476.2
531	Department stores	1,161.3	1,175.8	1,218.5	1,224.6	1,219.9
533	Variety stores	177.0	178.5	169.4	168.8	168.2
539	Misc. general merchandise stores	84.2	84.0	88.3	87.6	88.1
54	FOOD STORES	1,041.5	1,048.0	1,081.0	1,072.2	1,077.4
541	Grocery stores	874.1	879.8	926.2	900.0	903.7
542	Meat markets and freezer provisioners	17.3	17.4	16.7	17.1	17.0
548	Retail bakeries	78.8	78.8	83.1	78.9	80.3
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	311.2	312.3	318.0	320.5	319.9
551,2	New and used car dealers	111.0	111.2	109.0	109.1	108.6
553	Auto and home supply stores	49.2	48.6	51.7	50.7	50.5
554	Gasoline service stations	134.9	136.7	141.2	144.0	145.0
56	APPAREL AND ACCESSORY STORES	656.5	658.5	667.2	662.9	670.3
561	Men's and boys' clothing and furnishings	55.7	55.8	56.0	56.0	55.3
562	Women's ready-to-wear stores	302.8	303.4	309.5	305.9	309.3
565	Family clothing stores	133.8	134.7	133.3	132.0	134.9
566	Shoe stores	86.4	96.1	89.2	89.6	90.9
57	FURNITURE AND HOME FURNISHING STORES	202.5	202.8	203.0	202.4	203.6
571	Furniture and home furnishings stores	136.3	136.2	133.8	133.2	132.7
572	Household appliance stores	22.1	21.5	22.6	23.3	23.3
573	Radio, television, and music stores	44.1	45.1	46.6	45.9	47.6
58	EATING AND DRINKING PLACES	2,718.7	2,724.9	2,730.3	2,721.4	2,707.8
59	MISCELLANEOUS RETAIL	1,034.6	1,049.4	1,074.6	1,067.1	1,072.9
591	Drug stores and proprietary stores	310.0	313.7	313.1	312.2	313.0
592	Liquor stores	36.4	36.5	36.3	37.2	36.4
594	Miscellaneous shopping goods stores	361.7	367.0	384.0	381.7	385.2
596	Nonstore retailers	153.5	156.7	162.2	161.5	165.0
598	Fuel and ice dealers	22.7	22.9	24.0	23.8	24.0
599	Retail stores, nec	128.9	131.1	133.9	129.0	127.7
—	FINANCE, INSURANCE, AND REAL ESTATE	3,191	3,190	3,227	3,231	3,227
60	BANKING	1,168.9	1,169.4	1,179.2	1,182.1	1,180.2
602	Commercial and stock savings banks	1,074.9	1,075.6	1,084.4	1,086.8	1,084.9
61	CREDIT AGENCIES OTHER THAN BANKS	403.2	401.9	409.5	409.4	409.7
612	Savings and loan associations	197.3	196.3	205.5	205.9	206.6
614	Personal credit institutions	132.4	132.3	128.4	128.0	127.6
62	SECURITY, COMMODITY BROKERS, AND SERVICES	112.2	113.5	123.2	123.1	122.4
621	Security brokers and dealers	92.1	93.2	102.4	102.1	101.5
63	INSURANCE CARRIERS	757.8	755.4	747.1	746.2	744.6
631	Life insurance	305.5	304.7	302.0	301.6	301.2
632	Medical service and health insurance	103.1	102.9	102.2	101.6	101.4
633	Fire, marine, and casualty insurance	298.1	297.8	295.4	295.2	294.3
64	INSURANCE AGENTS, BROKERS, AND SERVICE	295.2	295.3	305.8	304.1	303.3
65	REAL ESTATE	377.3	378.2	382.3	385.7	385.5
651	Real estate operators and lessors	150.2	150.8	159.1	161.5	162.3
653	Real estate agents and managers	176.6	176.8	175.1	176.4	175.1
655	Subdividers and developers	36.4	36.0	35.5	35.2	35.4
66	COMBINED REAL ESTATE, INSURANCE, ETC.	11.8	11.6	11.7	11.7	11.6
67	HOLDING AND OTHER INVESTMENT OFFICES	64.9	65.0	68.4	68.9	69.4
—	SERVICES	10,975	10,972	11,310	11,300	11,285
70	HOTELS AND OTHER LODGING PLACES	666.3	673.8	634.4	656.4	666.4
701	Hotels, motels, and tourist courts	624.3	630.4	608.9	617.0	623.6

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1981	Aug. 1981	June 1982	July 1982	Aug. 1982
72	PERSONAL SERVICES	618.4	616.7	635.2	629.3	625.5
721	Laundry, cleaning, and garment services	222.2	221.5	222.7	220.5	219.0
723	Beauty shops	251.4	251.9	264.1	264.3	263.7
726	Funeral service and crematories	19.3	19.8	20.8	21.0	20.7
73	BUSINESS SERVICES	1,425.3	1,436.3	1,429.0	1,438.2	1,438.7
731	Advertising	74.7	74.2	78.8	78.6	78.8
732	Credit reporting and collection	54.0	54.0	54.2	54.5	53.9
733	Mailing, reproduction, stenographic	62.7	62.6	64.3	64.7	62.8
734	Services to buildings	193.7	197.6	206.6	206.4	205.9
738	Personnel supply services	380.1	387.6	341.9	346.8	345.2
737	Computer and data processing services	158.2	159.1	169.7	169.1	168.2
75	AUTO REPAIR, SERVICES, AND GARAGES	95.7	95.6	99.8	100.9	102.0
753	Automotive repair shops	44.0	44.6	49.0	50.3	50.9
76	MISCELLANEOUS REPAIR SERVICES	57.5	58.6	58.4	59.2	58.6
78	MOTION PICTURES	88.9	90.0	87.6	90.9	89.1
781	Motion picture production and services	24.2	25.6	26.8	26.7	26.2
783	Motion picture theaters	58.6	58.2	54.8	58.2	57.0
79	AMUSEMENT AND RECREATION SERVICES	345.1	343.0	375.3	394.4	389.0
80	HEALTH SERVICES	4,551.8	4,560.8	4,723.4	4,733.0	4,742.0
801	Offices of physicians	619.1	620.0	644.9	642.0	648.2
802	Offices of dentists	310.2	308.3	329.7	332.8	329.8
805	Nursing and personal care facilities	918.5	921.7	948.3	950.4	953.7
806	Hospitals	2,364.0	2,368.5	2,439.9	2,445.6	2,445.6
81	LEGAL SERVICES	383.9	382.6	401.3	403.7	402.3
82	EDUCATIONAL SERVICES	516.7	508.0	584.3	532.7	522.9
821	Elementary and secondary schools	167.6	151.4	194.2	168.4	163.1
822	Colleges and universities	284.4	282.5	321.7	298.0	293.4
83	SOCIAL SERVICES	842.8	834.3	866.5	854.6	854.7
89	MISCELLANEOUS SERVICES	350.5	351.8	362.2	361.6	360.4
891	Engineering and architectural services	128.4	127.8	130.0	130.5	129.3
893	Accounting, auditing, and bookkeeping	159.2	161.1	170.2	169.6	170.0
—	GOVERNMENT	7,074	6,951	7,780	7,044	7,093
—	FEDERAL GOVERNMENT	899	890	1,036	1,164	1,264
—	STATE AND LOCAL GOVERNMENT	6,175	6,061	6,744	5,880	5,829
—	State government	1,544.7	1,537.3	1,552.8	1,486.7	1,484.4
—	Hospitals	327.8	328.4	320.4	320.5	318.9
—	State education	548.5	538.8	583.1	516.9	514.6
—	General administration including executive, legislative, and judicial functions	445.4	445.7	434.8	434.5	433.7
—	Local government	4,630.2	4,523.9	5,191.0	4,393.1	4,344.1
—	Transportation and public utilities	95.5	95.1	97.2	97.3	97.2
—	Hospitals	512.8	511.4	528.1	529.7	529.8
—	Local education	2,713.2	2,647.4	3,374.3	2,498.1	2,460.3
—	General administration including executive, legislative, and judicial functions	1,066.1	1,036.4	995.5	1,058.1	1,042.5

**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									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. P	Oct. P
TOTAL	91,224	90,996	90,642	90,460	90,459	90,304	90,083	90,166	89,839	89,535	89,312	89,188	88,925
GOODS-PRODUCING	25,393	25,176	24,908	24,684	24,631	24,450	24,289	24,255	23,994	23,840	23,657	23,535	23,279
MINING	1,195	1,202	1,206	1,201	1,203	1,197	1,182	1,152	1,124	1,100	1,086	1,074	1,064
CONSTRUCTION	4,101	4,071	4,026	3,966	3,974	3,934	3,938	3,988	3,940	3,927	3,899	3,881	3,867
MANUFACTURING	20,097	19,903	19,576	19,517	19,454	19,319	19,169	19,115	18,930	18,813	18,672	18,580	18,348
DURABLE GOODS	12,059	11,901	11,724	11,622	11,575	11,490	11,375	11,332	11,203	11,133	10,993	10,906	10,705
Lumber and wood products	643	628	615	607	611	607	615	617	615	614	614	615	613
Furniture and fixtures	469	462	457	452	449	446	443	443	442	439	443	442	436
Stone, clay, and glass products	629	620	610	596	596	590	584	586	580	579	574	573	568
Primary metal industries	1,104	1,082	1,053	1,038	1,024	1,007	976	945	926	906	889	871	843
Fabricated metal products	1,577	1,553	1,529	1,515	1,505	1,496	1,481	1,472	1,452	1,446	1,427	1,414	1,386
Machinery, except electrical	2,532	2,511	2,486	2,459	2,446	2,419	2,389	2,377	2,322	2,274	2,230	2,208	2,137
Electric and electronic equipment	2,101	2,077	2,049	2,055	2,048	2,038	2,034	2,034	2,026	2,018	2,011	1,994	1,973
Transportation equipment	1,861	1,830	1,791	1,777	1,778	1,774	1,748	1,755	1,745	1,759	1,719	1,707	1,675
Instruments and related products	731	727	725	720	718	716	713	713	708	708	702	700	695
Miscellaneous manufacturing ind.	412	411	409	403	400	397	392	393	387	390	384	382	379
NONDURABLE GOODS	8,038	8,002	7,952	7,895	7,879	7,829	7,794	7,783	7,727	7,680	7,679	7,674	7,643
Food and kindred products	1,662	1,664	1,661	1,657	1,663	1,658	1,643	1,652	1,637	1,643	1,628	1,631	1,635
Tobacco manufactures	69	69	68	69	68	68	67	67	67	65	65	63	63
Textile mill products	814	804	794	780	777	760	773	759	741	741	737	735	736
Apparel and other textile products	1,243	1,235	1,222	1,201	1,201	1,186	1,165	1,165	1,161	1,126	1,145	1,144	1,140
Paper and allied products	685	681	677	674	670	668	664	661	658	657	653	657	648
Printing and publishing	1,276	1,276	1,276	1,275	1,276	1,278	1,274	1,274	1,269	1,267	1,269	1,269	1,265
Chemicals and allied products	1,107	1,103	1,100	1,095	1,093	1,088	1,082	1,079	1,073	1,068	1,070	1,066	1,060
Petroleum and coal products	215	215	214	210	208	207	206	207	205	205	205	209	209
Rubber and misc. plastic products	734	725	716	712	708	703	706	708	704	700	699	694	684
Leather and leather products	233	230	224	222	215	213	214	211	212	208	208	206	203
SERVICE-PRODUCING	65,831	65,820	65,734	65,776	65,828	65,854	65,794	65,911	65,845	65,695	65,655	65,653	65,646
TRANSPORTATION AND PUBLIC UTILITIES	5,162	5,150	5,128	5,125	5,115	5,100	5,094	5,101	5,078	5,044	5,025	5,032	5,022
WHOLESALE AND RETAIL TRADE	20,654	20,623	20,524	20,630	20,670	20,655	20,584	20,652	20,595	20,615	20,550	20,480	20,438
WHOLESALE TRADE	5,380	5,375	5,357	5,346	5,343	5,336	5,323	5,331	5,307	5,299	5,278	5,266	5,249
RETAIL TRADE	15,274	15,248	15,167	15,284	15,327	15,319	15,261	15,321	15,288	15,316	15,272	15,214	15,189
FINANCE, INSURANCE, AND REAL ESTATE	5,325	5,324	5,331	5,326	5,326	5,336	5,335	5,342	5,352	5,359	5,360	5,370	5,362
SERVICES	18,773	18,815	18,834	18,831	18,867	18,904	18,929	18,963	18,988	19,042	19,048	19,076	19,107
GOVERNMENT	15,917	15,908	15,917	15,864	15,850	15,859	15,852	15,853	15,832	15,635	15,672	15,695	15,717
FEDERAL	2,757	2,749	2,756	2,741	2,737	2,736	2,730	2,728	2,739	2,737	2,739	2,734	2,723
STATE AND LOCAL	13,160	13,159	13,161	13,123	13,113	13,123	13,122	13,125	13,093	12,898	12,933	12,961	12,994

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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
TOTAL	39,199	39,187	39,198	39,139	39,098	39,089	39,147	39,150	39,093	39,181	39,195	39,180	39,287
GOODS-PRODUCING	6,927	6,909	6,871	6,814	6,759	6,712	6,692	6,650	6,601	6,593	6,536	6,502	6,480
MINING	133	135	137	138	141	140	141	142	143	141	138	135	134
CONSTRUCTION	383	382	381	381	381	384	382	382	384	383	381	379	379
MANUFACTURING	6,411	6,392	6,353	6,295	6,237	6,188	6,169	6,126	6,074	6,069	6,017	5,988	5,967
DURABLE GOODS	3,087	3,074	3,050	3,008	2,972	2,957	2,942	2,922	2,894	2,891	2,865	2,860	2,834
Lumber and wood products	103	100	98	95	94	93	92	91	91	91	91	91	91
Furniture and fixtures	144	142	142	139	137	136	135	135	133	133	133	131	132
Stone, clay, and glass products	128	126	126	123	122	120	120	119	117	117	115	116	114
Primary metal industries	126	125	122	119	116	113	112	110	107	107	105	105	103
Fabricated metal products	342	340	333	326	320	317	315	313	309	308	307	304	304
Machinery, except electrical	519	520	520	517	511	507	505	503	500	499	493	485	480
Electric and electronic equipment	905	905	898	884	874	880	876	870	867	869	860	859	855
Transportation equipment	314	312	308	304	298	296	295	293	287	286	284	288	282
Instruments and related products	313	312	311	310	309	307	306	304	303	303	301	301	297
Miscellaneous manufacturing ind.	193	192	192	191	191	188	186	184	180	178	176	180	176
NONDURABLE GOODS	3,324	3,318	3,303	3,287	3,265	3,231	3,227	3,204	3,180	3,178	3,152	3,128	3,133
Food and kindred products	497	492	499	501	500	496	499	499	491	495	490	498	490
Tobacco manufactures	26	25	25	25	25	25	24	24	24	24	24	24	23
Textile mill products	394	394	388	383	378	370	368	362	367	362	353	355	352
Apparel and other textile products	1,012	1,012	1,004	998	988	971	971	958	939	938	935	905	922
Paper and allied products	162	163	160	158	158	157	157	156	155	154	151	152	151
Printing and publishing	510	512	513	513	515	516	518	518	518	519	517	515	515
Chemicals and allied products	284	285	285	285	285	284	284	283	282	281	280	278	279
Petroleum and coal products	31	32	32	32	32	32	33	33	32	32	31	31	31
Rubber and misc. plastics products	267	263	258	254	250	247	245	244	245	247	245	246	246
Leather and leather products	141	140	139	138	134	133	128	127	127	126	126	124	124
SERVICE-PRODUCING	32,272	32,278	32,327	32,325	32,339	32,377	32,455	32,500	32,492	32,588	32,659	32,678	32,807
TRANSPORTATION AND PUBLIC UTILITIES	1,348	1,355	1,355	1,351	1,358	1,338	1,339	1,339	1,342	1,348	1,341	1,335	1,334
WHOLESALE AND RETAIL TRADE	9,043	9,057	9,066	9,049	9,022	9,084	9,129	9,130	9,118	9,156	9,124	9,164	9,127
WHOLESALE TRADE	1,403	1,406	1,407	1,412	1,408	1,405	1,408	1,409	1,411	1,410	1,406	1,403	1,397
RETAIL TRADE	7,640	7,651	7,659	7,637	7,614	7,679	7,721	7,721	7,707	7,746	7,718	7,761	7,730
FINANCE, INSURANCE, AND REAL ESTATE	3,172	3,182	3,183	3,186	3,189	3,185	3,185	3,190	3,194	3,202	3,211	3,209	3,211
SERVICES	10,989	11,028	11,086	11,113	11,135	11,151	11,192	11,216	11,229	11,255	11,265	11,300	11,308
GOVERNMENT	7,720	7,656	7,637	7,626	7,635	7,619	7,610	7,625	7,609	7,627	7,718	7,670	7,827
FEDERAL	879	880	876	874	881	877	875	876	873	876	1,014	1,137	1,248
STATE AND LOCAL	6,841	6,776	6,761	6,752	6,754	6,742	6,735	6,749	6,736	6,751	6,704	6,533	6,579

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

B-6. Production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

[In thousands]

Industry division and group	1981			1982										P Oct.
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
TOTAL PRIVATE	61,017	60,775	50,401	60,248	60,282	60,132	59,923	60,025	59,759	59,670	59,388	59,299	59,020	
GOODS-PRODUCING	17,972	17,754	17,478	17,251	17,225	17,073	16,922	16,917	16,686	16,564	16,414	16,315	16,100	
MINING	877	882	883	875	876	871	863	835	805	782	770	762	753	
CONSTRUCTION	3,180	3,155	3,107	3,035	3,059	3,023	3,017	3,074	3,029	3,022	2,997	2,977	2,965	
MANUFACTURING	13,915	13,717	13,488	13,341	13,290	13,179	13,042	13,008	12,852	12,760	12,647	12,576	12,382	
DURABLE GOODS	8,218	8,061	7,885	7,793	7,759	7,685	7,576	7,553	7,443	7,388	7,272	7,201	7,031	
Lumber and wood products	531	516	503	497	502	497	507	507	506	505	506	506	504	
Furniture and fixtures	376	369	364	359	356	353	350	350	349	346	350	349	344	
Stone, clay, and glass products	484	475	465	452	452	446	441	444	438	438	435	435	430	
Primary metal industries	843	821	795	780	770	756	727	702	686	669	657	643	620	
Fabricated metal products	1,156	1,133	1,110	1,096	1,089	1,081	1,069	1,063	1,046	1,043	1,027	1,018	995	
Machinery, except electrical	1,598	1,576	1,552	1,526	1,514	1,490	1,460	1,454	1,408	1,366	1,328	1,309	1,253	
Electric and electronic equipment	1,314	1,285	1,257	1,266	1,258	1,248	1,241	1,240	1,233	1,221	1,215	1,203	1,190	
Transportation equipment	1,184	1,159	1,115	1,102	1,108	1,109	1,086	1,098	1,089	1,112	1,075	1,063	1,027	
Instruments and related products	428	424	423	420	418	415	411	412	407	406	402	399	394	
Miscellaneous manufacturing ind.	304	303	301	295	292	290	284	283	281	282	277	276	274	
NONDURABLE GOODS	5,697	5,656	5,603	5,548	5,531	5,494	5,466	5,455	5,409	5,372	5,375	5,375	5,351	
Food and kindred products	1,142	1,144	1,140	1,135	1,142	1,138	1,125	1,133	1,121	1,129	1,115	1,119	1,120	
Tobacco manufactures	54	54	53	54	53	53	52	52	52	51	51	49	49	
Textile mill products	704	693	683	670	667	651	662	650	633	634	630	631	632	
Apparel and other textile products	1,056	1,049	1,036	1,018	1,018	1,006	987	985	982	949	967	967	962	
Paper and allied products	515	511	506	504	501	499	496	493	489	489	487	491	484	
Printing and publishing	702	700	700	699	699	701	698	698	696	694	695	694	693	
Chemicals and allied products	625	621	616	612	609	609	602	600	595	591	593	592	589	
Petroleum and coal products	133	132	131	125	124	124	123	123	122	122	122	122	127	
Rubber and misc. plastics products	568	557	548	544	538	534	541	543	542	541	540	535	526	
Leather and leather products	198	195	190	187	180	179	180	177	177	172	175	172	169	
SERVICE-PRODUCING	43,045	43,021	42,923	42,997	43,057	43,059	43,001	43,108	43,073	43,106	42,974	42,984	42,920	
TRANSPORTATION AND PUBLIC UTILITIES	4,275	4,261	4,241	4,241	4,232	4,217	4,209	4,212	4,194	4,165	4,142	4,155	4,148	
WHOLESALE AND RETAIL TRADE	18,053	18,016	17,920	18,011	18,061	18,051	17,996	18,065	18,014	18,037	17,941	17,877	17,834	
WHOLESALE TRADE	4,373	4,367	4,348	4,332	4,327	4,317	4,301	4,309	4,287	4,282	4,260	4,249	4,236	
RETAIL TRADE	13,680	13,549	13,572	13,679	13,734	13,734	13,695	13,756	13,727	13,755	13,681	13,628	13,598	
FINANCE, INSURANCE, AND REAL ESTATE	4,019	4,013	4,014	4,007	4,003	4,004	3,999	3,998	4,012	4,013	4,006	4,016	4,008	
SERVICES	16,698	16,731	16,748	16,738	16,761	16,787	16,797	16,833	16,853	16,891	16,885	16,936	16,930	

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

p=preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

B-7. Indexes of diffusion: Percent of industries in which employment¹ increased

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
1979				
January.....	64.2	68.5	72.3	73.7
February.....	61.6	68.3	71.0	70.4
March.....	65.6	65.1	68.8	69.1
April.....	51.6	65.9	63.7	65.6
May.....	61.8	62.1	59.4	59.7
June.....	62.4	63.4	53.5	57.3
July.....	54.3	53.2	58.1	57.5
August.....	53.5	48.4	49.2	55.9
September.....	48.9	53.8	49.7	52.2
October.....	61.8	51.6	51.6	46.0
November.....	50.3	54.0	51.6	39.8
December.....	51.1	51.1	47.6	35.5
1980				
January.....	53.8	50.0	39.8	30.9
February.....	48.9	47.0	34.1	32.3
March.....	49.2	35.2	29.3	32.8
April.....	29.0	28.8	23.1	33.9
May.....	32.8	23.1	26.6	31.7
June.....	29.6	28.2	28.8	32.3
July.....	35.2	34.1	35.8	31.7
August.....	64.0	51.6	44.1	33.9
September.....	61.0	69.1	59.1	33.9
October.....	62.6	67.2	71.2	39.5
November.....	59.4	64.2	64.0	50.8
December.....	54.6	58.9	61.0	62.6
1981				
January.....	56.7	53.5	64.8	73.9
February.....	48.7	52.2	65.9	71.0
March.....	51.1	60.2	67.2	70.4
April.....	68.3	70.2	67.7	62.1
May.....	65.3	70.4	67.2	50.0
June.....	54.0	65.9	67.5	43.3
July.....	59.9	59.4	51.3	35.2
August.....	50.3	57.0	39.0	33.6
September.....	50.3	40.1	33.9	31.5
October.....	34.7	30.6	30.1	27.2
November.....	28.2	26.3	27.7	27.7
December.....	31.2	23.4	24.2	25.8
1982				
January.....	32.5	28.0	21.8	23.1
February.....	42.5	31.2	27.4	23.1
March.....	35.8	33.6	27.4	21.5p
April.....	40.9	37.1	29.8	19.6p
May.....	51.1	35.8	28.8	
June.....	32.0	35.8	30.9p	
July.....	43.5	27.7	27.7p	
August.....	37.6	32.5p		
September.....	43.0p	29.3p		
October.....		28.5p		
November.....				
December.....				

¹ 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		
	Sep. 1981	Aug. 1982	Sep. 1982P	Sep. 1981	Aug. 1982	Sep. 1982P	Sep. 1981	Aug. 1982	Sep. 1982P	Sep. 1981	Aug. 1982	Sep. 1982P
1 ALABAMA	1,354.1	1,318.8	1,312.1	16.9	15.7	15.8	66.5	63.2	63.1	366.9	334.0	333.0
2 Birmingham	344.3	334.1	331.1	8.9	8.3	8.3	19.1	19.0	18.7	59.4	49.7	50.2
3 Huntsville	124.1	125.9	126.2	(1)	(1)	(1)	4.1	4.1	4.0	37.3	38.4	38.1
4 Mobile	154.6	145.3	(*)	(1)	(1)	(*)	10.9	9.0	(*)	32.3	27.5	(*)
5 Montgomery	107.0	103.3	104.2	(1)	(1)	(1)	6.1	5.7	5.7	16.7	14.7	14.9
6 Tuscaloosa	50.5	49.1	49.3	2.6	2.7	2.7	2.5	1.9	1.9	8.3	7.8	7.7
7 ALASKA	186.5	202.2	199.1	7.5	8.8	8.1	16.3	18.0	17.9	12.9	17.4	11.9
8 ARIZONA	1,039.5	1,002.8	1,025.2	25.2	16.4	14.9	69.5	59.6	59.2	160.7	151.4	150.1
9 Phoenix	654.4	636.8	650.0	.4	.5	.5	47.7	39.7	39.6	117.1	109.8	109.0
10 Tucson	189.8	182.5	190.1	7.7	4.1	4.1	12.3	11.5	11.0	24.2	25.2	24.8
11 ARKANSAS	748.0	719.0	731.2	6.1	5.9	5.7	35.5	31.8	31.0	213.0	194.3	194.7
12 Fayetteville—Springdale	66.9	63.1	65.2	(1)	(1)	(1)	2.7	2.7	2.7	20.5	17.6	17.5
13 Fort Smith	65.2	64.2	65.7	1.1	1.2	1.2	2.7	2.3	2.2	22.5	19.8	19.8
14 Little Rock—North Little Rock	180.7	178.5	180.2	(1)	(1)	(1)	9.2	9.7	9.5	29.8	26.5	26.3
15 Pine Bluff	31.7	30.2	31.0	(1)	(1)	(1)	2.0	2.1	2.0	6.3	5.4	5.4
18 CALIFORNIA	10,107.2	9,901.5	9,957.1	49.3	48.3	47.2	435.8	373.3	370.0	2,055.8	1,950.9	1,943.9
17 Anaheim—Santa Ana—Garden Grove	865.3	854.1	853.1	2.8	3.0	2.9	50.3	42.7	42.1	224.1	216.4	214.9
18 Bakersfield	137.1	133.1	133.9	14.4	14.5	14.3	7.2	6.2	6.0	10.5	9.5	9.5
19 Fresno	185.1	178.9	182.8	1.0	1.1	1.0	10.3	8.9	8.7	24.8	23.1	23.9
20 Los Angeles—Long Beach	3,642.4	3,537.5	3,570.7	14.7	14.3	14.1	123.8	103.4	102.0	916.4	854.9	853.1
21 Modesto	94.0	94.4	95.1	.1	.1	.1	5.3	4.9	4.8	24.6	26.9	25.5
22 Oxnard—Simi Valley—Ventura	159.0	159.3	159.0	3.0	3.0	3.0	7.3	6.4	6.2	26.8	25.9	26.6
23 Riverside—San Bernardino—Ontario	439.3	424.8	431.7	2.1	1.6	1.6	24.0	22.1	21.9	65.4	59.5	58.5
24 Sacramento	412.0	402.4	408.4	.7	.7	.7	17.8	17.1	16.9	30.9	30.1	29.5
25 Salinas—Seaside—Monterey	91.8	90.1	90.7	.4	.4	.4	3.3	3.4	3.4	9.3	9.7	9.9
26 San Diego	664.3	643.1	651.3	.6	.6	.5	34.9	28.9	28.1	109.5	104.3	104.4
27 San Francisco—Oakland	1,585.8	1,562.2	1,575.5	4.2	4.5	4.4	76.6	74.9	75.0	199.8	191.3	191.1
28 San Jose	653.1	699.6	699.5	.1	.1	.1	24.1	23.4	23.0	254.9	259.7	258.0
29 Santa Barbara—Santa Maria—Lompoc	123.6	123.2	122.9	1.6	1.4	1.4	5.0	4.5	4.5	18.0	18.8	19.0
30 Santa Rosa	56.5	94.2	96.4	.5	.5	.5	6.0	5.0	4.9	15.5	16.1	16.3
31 Stockton	128.7	122.8	124.3	.1	.1	.1	6.0	5.7	5.7	26.7	25.7	24.8
32 Vallejo—Fairfield—Napa	102.2	100.9	100.8	.5	.5	.5	5.2	4.7	4.8	12.1	11.6	11.4
33 COLORADO	1,290.2	1,279.9	1,280.1	44.1	41.0	40.3	77.4	78.4	77.4	187.2	178.2	175.2
34 Denver—Boulder	827.9	823.7	824.3	27.1	28.4	27.9	44.7	46.5	45.9	130.2	124.5	122.9
35 CONNECTICUT	1,441.3	1,395.8	1,415.7	(2)	(2)	(2)	54.6	53.9	54.0	437.9	392.2	398.8
36 Bridgeport	171.5	167.0	167.9	(2)	(2)	(2)	4.7	4.9	4.9	65.3	62.5	62.0
37 Hartford	400.5	388.2	397.0	(2)	(2)	(2)	12.7	12.2	12.5	96.8	85.8	89.6
38 New Britain	63.4	57.9	60.0	(2)	(2)	(2)	2.6	2.6	2.6	29.4	24.1	25.1
39 New Haven—West Haven	190.7	186.3	189.9	(2)	(2)	(2)	6.9	7.0	7.0	41.7	38.8	39.5
40 Stamford	113.4	111.6	113.0	(2)	(2)	(2)	6.1	5.9	5.9	31.8	29.6	30.7
41 Waterbury	68.6	87.3	88.1	(2)	(2)	(2)	2.9	3.3	3.3	32.4	29.8	30.2
42 DELAWARE	261.2	258.2	259.4	(1)	(1)	(1)	14.4	14.7	14.5	72.5	66.7	69.7
43 Wilmington	228.9	221.2	224.0	(1)	(1)	(1)	14.7	14.8	14.5	65.8	59.0	62.3
44 DISTRICT OF COLUMBIA	603.4	624.6	604.8	(1)	(1)	(1)	12.1	12.0	12.0	13.9	14.6	14.5
45 Washington SMSA	1,592.7	1,613.1	1,594.9	(1)	(1)	(1)	78.1	70.1	69.6	57.8	61.2	61.8
46 FLORIDA	3,657.2	3,702.2	3,744.0	11.0	9.1	9.4	289.5	253.8	252.5	468.7	442.6	447.5
47 Daytona Beach	79.6	75.3	73.7	—	—	—	5.2	4.1	4.1	8.5	8.4	8.3
48 Fort Lauderdale—Hollywood	354.7	339.6	342.1	(1)	(1)	(1)	29.1	24.9	24.6	41.3	38.2	38.0
49 Fort Myers—Cape Coral	71.3	68.8	71.7	(1)	(1)	(1)	8.8	8.3	8.4	3.9	4.3	4.2
50 Gainesville	68.9	65.9	67.3	(1)	(1)	(1)	3.4	2.8	2.9	4.5	4.4	4.3
51 Jacksonville	301.0	297.3	302.7	(1)	(1)	(1)	18.1	17.9	17.9	34.2	33.1	33.1
52 Lakeland—Winter Haven	120.3	105.4	109.4	6.0	3.7	3.9	10.2	7.6	7.6	21.6	17.3	17.8
53 Melbourne—Titusville—Cocoa	107.1	104.5	105.1	(1)	(1)	(1)	6.6	5.8	5.8	24.2	23.8	23.9
54 Miami	742.1	717.0	720.6	(1)	(1)	(1)	39.2	33.9	33.8	99.2	95.9	95.9
55 Orlando	300.9	291.6	299.8	(1)	(1)	(1)	21.7	20.0	19.4	38.6	36.5	36.9
56 Pensacola	55.6	97.5	98.6	(1)	(1)	(1)	7.1	6.4	6.5	12.5	11.8	11.8
57 Sarasota	71.4	70.9	71.3	(1)	(1)	(1)	7.4	6.3	6.2	6.4	5.8	5.7
58 Tallahassee	75.6	73.6	72.8	(1)	(1)	(1)	3.4	3.8	3.6	2.9	2.8	2.9
59 Tampa—St. Petersburg	569.4	554.7	564.6	(1)	(1)	(1)	42.7	36.3	36.3	79.6	75.9	76.2
60 West Palm Beach—Boca Raton	218.3	209.1	210.9	(1)	(1)	(1)	20.7	17.0	16.9	28.9	27.7	27.9

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT

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

(in thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	
71.9	70.6	66.8	273.6	271.8	271.9	59.3	59.5	59.2	213.3	213.4	214.0	285.7	290.6	288.3	1
29.8	29.8	27.6	81.6	81.3	81.2	22.9	22.9	22.7	69.4	71.2	71.3	53.2	51.9	51.1	2
2.7	2.6	2.6	22.2	22.6	22.7	3.6	3.6	3.5	19.2	19.5	20.0	35.0	35.1	35.3	3
10.3	10.1	(*)	36.9	35.4	(*)	7.3	7.2	(*)	30.5	30.7	(*)	26.4	25.4	(*)	4
4.5	4.4	4.4	23.4	23.1	23.1	6.3	6.4	6.3	20.9	20.8	21.0	29.1	28.2	28.8	5
1.7	1.7	1.7	10.1	9.7	9.7	1.7	1.7	1.7	6.5	6.4	6.5	17.1	17.2	17.4	6
19.4	19.8	20.2	32.3	34.6	35.2	8.7	9.3	9.4	32.7	35.1	34.7	56.7	58.9	61.7	7
54.0	54.9	54.7	253.7	254.8	256.8	62.1	61.8	61.7	215.4	221.4	221.0	198.9	182.5	206.8	8
33.0	34.1	34.0	169.2	168.7	170.2	48.0	47.6	47.5	140.6	145.0	145.0	98.4	91.4	104.2	9
9.1	8.8	8.8	42.2	43.5	43.7	8.9	9.0	9.1	41.1	41.7	42.4	44.3	38.7	46.2	10
44.3	43.6	44.0	162.7	162.8	162.8	32.1	33.4	33.1	117.4	118.9	119.5	136.9	126.3	140.4	11
3.9	4.2	4.3	16.5	16.7	16.9	2.3	2.4	2.3	9.6	9.4	9.8	11.4	10.1	11.7	12
3.6	3.4	3.3	14.6	13.9	13.9	2.6	2.6	2.5	12.0	12.1	12.0	10.1	8.9	10.8	13
13.5	13.5	13.5	42.2	42.5	42.8	12.8	13.1	13.1	36.0	37.6	37.8	35.6	37.2	37.2	14
3.8	3.8	3.7	6.4	6.3	6.4	1.3	1.4	1.4	5.3	5.5	5.5	6.6	5.7	6.6	15
563.0	549.9	555.4	2,351.3	2,339.8	2,344.9	651.5	659.2	658.2	2,295.9	2,350.3	2,352.1	1,704.6	1,629.8	1,685.4	16
29.9	29.2	29.2	213.3	217.7	217.5	62.1	61.6	61.2	185.2	190.2	188.6	97.6	93.3	96.7	17
8.0	7.5	7.5	34.6	34.2	34.2	5.3	5.3	5.3	25.3	25.4	25.5	31.8	30.5	31.6	18
11.1	10.8	10.9	50.0	48.8	49.0	11.6	11.8	11.8	37.7	38.1	38.3	38.6	36.3	39.2	19
205.4	196.5	199.5	827.0	827.0	833.2	241.8	240.0	239.8	866.9	878.1	884.9	446.4	423.3	444.1	20
4.1	3.9	3.9	22.3	21.7	22.2	3.6	3.6	3.6	17.9	18.2	18.2	16.1	15.1	16.8	21
7.0	7.0	7.0	38.5	39.7	39.5	8.3	8.5	8.5	32.4	32.5	32.5	35.7	36.3	35.7	22
26.4	25.8	25.8	108.7	109.3	109.9	19.9	19.8	19.8	93.9	94.5	95.5	98.9	92.2	98.7	23
23.1	22.0	21.7	96.7	94.8	95.7	22.8	22.6	22.5	78.5	78.2	78.4	141.5	136.9	143.0	24
5.0	4.9	4.9	24.3	24.1	24.2	4.4	4.4	4.4	20.6	20.5	20.6	24.5	22.7	22.9	25
29.5	29.5	29.3	153.6	149.3	149.9	40.9	40.9	40.7	157.9	161.8	160.6	137.4	127.8	137.8	26
132.9	127.6	127.3	366.6	365.5	366.1	152.0	153.2	152.8	375.3	380.8	384.6	278.4	264.4	274.2	27
23.2	22.1	22.1	130.1	133.0	133.6	28.9	28.2	28.3	158.9	162.4	161.3	72.9	70.7	73.5	28
5.5	5.4	5.4	29.6	29.4	29.3	5.9	6.0	6.0	34.3	34.9	34.9	23.7	22.8	22.4	29
5.0	4.9	4.9	23.7	23.7	23.7	6.0	6.0	6.0	20.4	20.6	20.7	19.4	17.4	19.4	30
8.8	8.9	8.2	29.4	28.3	28.2	5.3	5.4	5.4	25.3	24.9	25.4	27.1	23.8	26.5	31
4.8	4.6	4.6	22.8	23.1	23.0	3.5	3.4	3.4	19.8	20.1	20.1	33.5	33.1	33.0	32
82.5	80.8	80.7	314.6	316.7	317.1	79.9	82.7	82.5	265.5	278.0	273.0	239.0	224.2	233.9	33
57.6	56.3	56.3	196.2	196.5	196.3	56.9	59.2	59.0	179.0	185.8	183.2	136.2	126.5	132.7	34
61.6	59.5	61.2	303.5	306.0	310.1	112.2	117.1	116.2	293.5	301.6	301.4	178.0	165.5	174.0	35
6.1	6.0	6.2	35.2	34.6	34.9	7.8	7.8	7.8	36.1	35.8	35.9	16.3	15.4	16.2	36
14.6	13.7	14.6	85.4	84.7	86.0	61.3	64.6	63.8	75.8	76.2	77.3	53.9	51.0	53.2	37
3.2	3.4	3.4	10.4	10.1	10.5	1.9	1.9	1.9	10.0	10.3	10.5	5.9	5.5	6.0	38
15.8	15.2	15.7	40.9	40.6	41.1	11.1	11.6	11.6	49.6	50.5	50.9	24.7	22.6	24.1	39
4.7	4.7	4.7	25.8	26.3	26.2	8.4	8.7	8.6	26.3	26.9	26.6	10.3	9.5	10.3	40
3.1	3.0	3.2	16.0	16.2	16.5	3.8	3.9	3.9	19.2	20.2	19.8	11.2	10.9	11.2	41
12.2	11.6	11.9	57.6	58.4	57.5	13.0	13.1	12.8	49.6	50.5	49.6	41.8	43.1	43.4	42
11.8	11.4	11.6	47.4	46.4	46.4	12.1	12.3	12.0	44.4	44.6	43.8	32.8	32.8	33.4	43
26.7	26.6	26.7	63.8	64.5	64.2	34.1	34.2	33.9	185.9	186.3	188.6	266.9	286.4	264.9	44
72.5	73.9	73.7	310.4	314.7	314.8	92.2	93.5	93.0	448.1	454.6	456.1	533.6	545.1	525.9	45
227.4	230.6	230.2	964.3	1,006.2	1,008.9	272.8	278.3	277.1	859.2	909.4	912.5	604.3	572.2	605.8	46
3.2	3.3	2.5	22.7	21.9	20.6	4.8	4.7	4.7	20.7	21.3	20.7	14.7	10.8	10.7	47
17.6	17.6	17.6	102.6	99.2	99.1	31.4	30.8	30.8	84.6	84.6	84.1	48.1	44.3	47.9	48
4.3	4.5	4.4	19.8	19.8	19.9	6.6	6.6	6.7	16.3	16.2	16.3	11.6	9.1	11.8	49
1.6	1.7	1.8	14.8	13.8	14.1	3.1	3.2	3.2	14.3	13.9	13.9	27.2	26.1	27.1	50
24.5	25.0	25.2	78.4	78.6	78.4	27.9	28.2	28.2	64.5	64.9	65.4	53.4	49.6	54.5	51
5.3	5.0	5.0	29.3	27.3	27.5	6.6	6.9	6.9	24.2	23.2	23.6	17.1	14.4	17.1	52
4.7	4.6	4.6	22.4	21.6	22.0	4.4	4.1	4.1	26.4	25.5	25.9	18.4	19.1	18.8	53
72.9	70.6	70.9	195.6	191.0	191.1	57.7	56.1	55.8	182.0	178.3	178.3	95.5	91.2	94.8	54
15.0	15.6	15.4	80.1	79.2	79.5	20.6	20.6	20.4	82.1	83.7	84.1	42.8	36.0	44.1	55
5.0	5.3	4.9	24.0	24.5	24.5	4.4	4.6	4.7	20.7	21.8	21.4	25.9	22.7	24.8	56
3.2	3.2	3.2	20.8	21.0	21.4	5.8	5.9	5.9	18.0	18.4	18.5	9.8	10.3	10.4	57
3.0	3.1	3.1	15.6	15.1	15.5	3.5	3.5	3.5	13.9	14.1	14.1	33.3	31.2	30.1	58
32.2	32.7	32.8	156.7	154.6	155.3	41.3	42.1	42.1	135.9	136.1	136.2	81.0	77.0	85.7	59
9.5	9.8	9.8	56.8	54.8	55.8	18.3	17.6	17.4	53.2	51.4	51.9	30.9	30.8	31.2	60

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(in thousands)

State and area	Total			Mining			Construction			Manufacturing		
	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P
1 GEORGIA.....	2,183.7	2,149.1	2,151.1	7.9	7.8	7.9	102.4	99.8	97.9	524.4	493.5	493.5
2 Albany.....	44.9	43.9	44.0	(1)	(1)	(1)	2.3	2.4	2.4	12.2	11.8	11.8
3 Atlanta.....	984.4	994.0	995.5	(1)	(1)	(1)	44.7	45.7	44.4	145.2	139.5	140.4
4 Augusta.....	122.8	122.2	122.3	(1)	(1)	(1)	5.3	5.4	5.3	35.9	33.7	33.6
5 Columbus.....	80.9	79.2	76.8	(1)	(1)	(1)	4.8	4.9	4.4	21.5	19.1	19.0
6 Macon.....	98.6	97.6	97.8	(1)	(1)	(1)	3.7	3.6	3.5	17.7	17.4	17.3
7 Savannah.....	89.3	86.4	87.5	(1)	(1)	(1)	5.1	4.7	4.8	17.2	16.1	16.1
8 HAWAII.....	396.3	403.3	393.8	—	—	—	22.1	18.5	18.4	22.6	24.2	22.5
9 Honolulu.....	325.3	329.9	321.5	—	—	—	18.3	14.6	14.4	16.5	17.9	16.4
10 IDAHO ³	335.3	307.6	315.9	5.7	3.2	3.2	18.6	14.6	14.1	54.7	48.9	50.1
11 Boise City ³	79.3	75.5	75.8	(1)	(1)	(1)	6.1	5.0	4.7	9.1	8.9	8.9
12 ILLINOIS.....	4,782.4	4,613.4	4,589.8	29.1	28.4	28.3	171.8	169.9	170.3	1,145.2	1,009.1	1,004.3
13 Bloomington—Normal.....	51.0	47.7	48.7	(2)	(2)	(2)	1.8	1.9	1.8	7.0	5.7	5.6
14 Champaign—Urbana—Rantoul.....	75.6	70.2	76.8	(2)	(2)	(2)	1.9	1.5	1.3	7.8	7.2	7.5
15 Chicago—Gary.....	(*) 3,403.0	3,374.5	(*) 4.1	4.1	(*) 4.1	(*) 4.1	119.6	118.5	(*) 118.5	774.7	769.2	769.2
16 Chicago SMSA ¹	3,226.4	3,166.7	3,141.5	4.0	4.0	4.0	95.6	105.8	104.7	773.7	697.2	693.5
17 Davenport—Rock Island—Moline.....	162.2	153.0	150.6	(2)	(2)	(2)	7.9	7.7	7.7	49.2	41.9	40.1
18 Decatur.....	56.0	50.1	52.1	(2)	(2)	(2)	2.5	2.3	2.3	20.5	15.4	17.1
19 Kankakee.....	33.5	32.6	32.1	(2)	(2)	(2)	1.9	1.6	1.5	8.6	7.7	7.6
20 Peoria.....	149.8	137.2	135.3	(2)	(2)	(2)	7.3	7.6	7.6	49.0	37.7	36.3
21 Rockford.....	118.6	105.7	108.7	(2)	(2)	(2)	3.9	3.8	3.7	50.3	39.5	42.3
22 Springfield.....	87.1	92.9	87.6	(2)	(2)	(2)	4.3	4.4	4.2	6.4	6.3	6.2
23 INDIANA.....	2,141.4	2,006.9	2,028.3	10.1	8.9	8.9	94.1	86.9	85.9	668.8	588.5	589.4
24 Anderson.....	45.6	41.8	42.9	(1)	(1)	(1)	1.1	1.2	1.2	19.7	16.8	17.5
25 Elkhart.....	68.8	65.4	65.6	—	—	—	2.2	2.0	1.9	35.3	33.0	33.0
26 Evansville.....	127.1	123.7	123.2	3.0	2.4	2.4	7.4	6.9	6.9	35.6	32.9	32.6
27 Fort Wayne.....	174.7	162.3	163.2	(1)	(1)	(1)	8.3	7.4	7.2	54.9	47.8	47.6
28 Gary—Hammond—East Chicago ⁴	250.5	236.3	233.0	(1)	(1)	(1)	15.2	13.8	13.8	90.3	77.5	75.7
29 Indianapolis.....	534.8	515.6	516.7	(1)	(1)	(1)	23.7	22.6	22.1	123.2	110.2	111.7
30 Lafayette—West Lafayette.....	58.8	52.3	57.7	(1)	(1)	(1)	2.9	2.5	2.4	11.3	10.4	10.4
31 Muncie.....	49.1	43.9	46.5	(1)	(1)	(1)	1.4	1.2	1.2	12.5	10.6	10.6
32 South Bend.....	106.4	101.8	103.1	(1)	(1)	(1)	6.4	3.8	3.7	30.7	29.4	29.0
33 Terre Haute.....	62.0	54.9	56.7	1.5	1.3	1.2	3.4	2.5	2.5	15.0	13.3	13.1
34 IOWA.....	1,056.1	1,027.5	1,048.0	2.1	2.0	2.0	49.7	44.8	44.1	237.2	202.6	206.3
35 Cedar Rapids.....	81.1	74.3	74.9	(1)	(1)	(1)	3.5	3.1	3.2	26.1	22.0	22.2
36 Des Moines.....	174.9	167.5	169.2	(1)	(1)	(1)	6.8	5.7	5.6	23.0	18.6	20.2
37 Dubuque.....	42.3	37.4	37.5	(1)	(1)	(1)	1.3	1.2	1.2	14.8	10.4	10.1
38 Sioux City.....	49.3	45.1	47.6	(1)	(1)	(1)	2.2	1.6	1.6	9.2	6.3	8.2
39 Waterloo—Cedar Falls.....	65.1	58.5	60.2	(1)	(1)	(1)	2.2	2.3	2.2	22.9	18.6	19.1
40 KANSAS.....	953.5	906.1	919.9	19.8	17.8	17.3	43.6	39.1	37.4	187.4	160.3	161.2
41 Lawrence.....	28.7	26.1	28.0	(2)	(2)	(2)	1.0	.9	.8	4.7	4.4	4.4
42 Topeka.....	85.5	82.9	82.8	.2	.2	.2	3.4	3.1	2.9	9.8	9.1	8.6
43 Wichita.....	207.8	189.5	194.3	3.6	3.6	3.6	10.5	9.2	9.2	63.5	48.7	51.0
44 KENTUCKY.....	1,206.1	1,125.2	1,141.9	54.4	51.3	50.2	53.9	46.4	46.8	277.8	244.4	244.3
45 Lexington—Fayette.....	144.9	139.5	142.0	(1)	(1)	(1)	6.1	4.7	4.9	29.5	26.8	26.8
46 Louisville.....	385.4	367.1	366.0	(1)	(1)	(1)	18.2	17.1	17.0	99.0	82.5	82.8
47 Owensboro.....	31.4	27.8	27.7	1.2	.8	.8	1.7	1.3	1.2	7.0	5.7	5.7
48 LOUISIANA.....	1,647.9	1,606.7	1,613.3	99.1	98.0	97.3	144.6	133.9	131.7	223.5	197.6	197.3
49 Alexandria.....	54.0	54.1	54.5	(1)	(1)	(1)	4.1	4.1	4.0	5.5	5.7	5.6
50 Baton Rouge.....	206.0	201.0	204.6	1.2	1.4	1.3	26.3	18.9	18.5	26.9	25.0	24.8
51 Lafayette.....	92.4	97.3	98.1	18.6	20.0	20.0	5.7	6.1	6.0	4.9	5.4	5.4
52 Lake Charles.....	71.0	63.7	63.7	2.5	2.3	2.3	10.3	5.8	5.6	13.3	10.6	10.8
53 Monroe.....	50.4	48.3	49.6	.7	.6	.6	3.4	3.5	3.6	8.0	6.6	6.6
54 New Orleans.....	520.3	508.9	508.2	20.7	21.9	21.9	30.4	30.7	30.2	53.4	47.5	47.2
55 Shreveport.....	155.3	147.8	148.4	8.4	6.1	5.9	8.8	8.7	8.2	28.9	25.7	25.3
56 MAINE.....	422.2	422.1	414.1	(1)	(1)	(1)	19.3	18.4	18.6	114.5	109.9	108.5
57 Lewiston—Auburn.....	34.6	34.1	33.8	(1)	(1)	(1)	1.4	1.3	1.3	11.8	10.8	10.7
58 Portland.....	93.2	95.9	95.5	(1)	(1)	(1)	4.0	4.1	4.1	18.0	17.3	17.1
59 MARYLAND.....	1,708.9	1,662.7	1,666.6	(1)	(1)	(1)	97.7	83.6	82.1	233.1	207.1	209.3
60 Baltimore SMSA.....	953.5	925.7	930.3	(1)	(1)	(1)	45.1	37.1	36.2	156.7	136.5	139.1
61 Baltimore City ⁵	444.0	430.4	431.7	(1)	(1)	(1)	17.5	14.1	13.2	63.6	56.8	58.1

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			
SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	
144.8	142.3	141.9	503.8	496.5	495.4	114.0	116.9	115.7	361.7	367.7	368.2	424.7	424.6	430.6	1
2.3	2.2	2.2	9.3	9.4	9.5	2.0	2.1	6.3	6.0	10.6	10.1	10.1	10.1	10.1	2
89.7	90.3	89.6	268.3	274.1	273.8	67.6	69.2	68.0	210.2	219.4	219.5	158.7	155.7	160.0	3
4.4	4.5	4.4	22.7	23.5	23.7	4.4	4.8	4.7	18.1	18.2	18.3	32.0	31.7	32.4	4
3.3	3.2	3.1	15.9	15.6	15.4	5.4	5.5	5.5	11.7	11.5	11.3	18.3	19.4	18.1	5
4.6	4.5	4.4	20.4	20.5	20.6	6.2	6.1	6.0	17.2	16.9	16.7	28.8	28.7	29.2	6
9.1	7.7	7.9	21.8	21.7	21.6	4.1	4.2	4.2	16.2	16.6	16.3	15.9	15.3	16.6	7
31.4	30.4	30.4	104.8	105.7	105.1	32.2	32.2	31.8	101.3	101.2	101.5	81.9	91.1	84.1	8
26.3	25.3	25.3	86.9	87.3	87.2	27.6	27.8	27.4	81.1	80.4	80.6	68.6	76.6	70.2	9
20.2	19.0	19.1	82.4	77.7	79.5	23.2	22.6	22.5	60.9	59.0	59.4	69.6	62.6	68.0	10
5.3	5.1	5.1	20.2	19.5	19.5	8.0	7.6	7.6	14.8	14.9	15.0	15.8	14.5	15.0	11
285.3	269.8	271.4	1,101.1	1,073.5	1,075.3	318.5	320.6	316.7	962.8	976.9	975.5	768.6	765.2	748.0	12
3.2	3.1	3.1	12.3	12.0	11.9	7.7	7.9	8.3	8.4	8.3	10.7	8.7	10.1	13	
2.7	2.5	2.6	19.7	19.0	19.4	2.5	2.4	11.7	11.6	11.5	29.3	26.0	30.1	14	
(*)	203.5	204.8	(*)	800.4	801.6	(*)	252.8	250.1	(*)	750.0	750.4	(*)	497.9	475.8	15
198.1	189.7	191.2	763.6	749.3	750.5	246.7	243.8	241.1	697.9	712.1	712.2	446.8	444.8	444.3	16
6.9	6.6	6.6	40.6	39.2	39.2	7.1	7.2	7.1	24.4	24.0	23.8	26.1	26.4	26.1	17
5.3	5.1	5.2	11.5	11.3	11.4	2.7	2.7	2.6	8.7	8.6	8.6	4.8	4.7	4.9	18
1.4	1.4	1.4	6.9	6.9	6.9	1.1	1.1	1.1	6.6	6.4	6.3	7.0	7.5	7.3	19
8.0	7.8	7.8	35.2	33.9	33.8	7.1	7.0	7.0	25.9	25.8	25.4	17.3	17.4	17.4	20
4.4	4.3	4.2	24.6	23.7	23.5	4.2	4.2	4.2	18.8	18.6	18.6	12.4	11.6	12.2	21
4.7	4.5	4.5	19.0	20.7	18.7	6.6	6.7	6.5	18.3	20.4	18.4	27.8	29.9	29.1	22
104.4	99.2	98.8	472.3	462.0	463.8	101.6	100.7	99.7	344.9	347.4	347.8	345.4	313.3	334.0	23
1.3	1.1	1.1	9.4	9.0	9.1	1.6	1.6	1.6	7.2	7.2	7.3	5.3	4.9	5.1	24
2.1	2.0	2.0	13.1	12.8	12.8	2.1	2.1	2.1	9.1	9.0	9.0	4.9	4.5	4.8	25
7.1	7.0	7.0	31.5	31.5	31.5	4.7	4.7	4.7	25.3	25.9	25.6	12.5	12.4	12.5	26
11.0	10.4	10.3	42.8	40.8	40.8	10.5	10.5	10.5	29.4	28.6	28.8	17.8	16.8	18.0	27
14.7	13.8	13.6	51.6	51.1	51.1	9.1	9.0	9.0	38.1	38.0	38.3	31.5	33.1	31.5	28
31.3	30.0	30.0	133.3	131.4	131.1	38.8	38.5	38.2	98.2	99.3	99.6	86.3	83.6	84.0	29
1.4	1.4	1.4	11.2	11.0	11.4	2.5	2.5	2.5	9.4	9.4	9.5	20.1	15.1	20.1	30
2.1	2.0	2.0	12.5	12.1	12.1	1.5	1.4	1.4	8.4	8.4	8.5	10.7	8.2	10.7	31
4.6	4.3	4.3	25.4	24.7	24.8	5.2	5.2	5.2	23.6	22.6	23.8	12.5	11.8	12.3	32
3.4	3.1	3.1	15.1	13.5	13.4	2.0	1.8	1.8	9.5	8.9	9.3	12.1	10.5	12.3	33
53.9	50.8	50.6	276.0	267.5	267.4	59.5	60.1	59.6	210.7	207.1	211.4	207.0	192.5	206.7	34
3.7	3.7	3.6	18.8	17.7	17.6	4.3	4.2	4.1	15.6	15.5	15.6	9.1	8.0	8.5	35
11.1	11.1	11.1	45.6	44.1	44.2	22.0	23.0	22.8	40.6	39.0	39.7	25.8	26.0	25.6	36
1.6	1.5	1.5	9.2	8.8	8.8	1.3	1.3	1.3	10.4	10.8	10.9	3.6	3.2	3.5	37
3.9	3.8	3.8	12.9	12.8	12.8	2.8	2.7	2.7	12.3	12.5	12.7	6.0	5.5	6.0	38
2.4	2.3	2.3	13.7	13.2	13.3	2.1	2.0	2.0	11.2	10.9	10.7	9.2	10.4	10.4	39
63.5	62.6	62.2	228.9	225.7	224.9	47.8	48.3	47.6	175.5	180.1	180.1	187.0	172.2	189.2	40
1.5	1.4	1.4	5.4	5.3	5.6	.8	.8	.8	4.2	4.1	4.2	11.1	9.2	10.8	41
8.4	8.1	8.2	18.6	18.0	18.1	6.0	5.9	5.8	17.8	17.8	17.7	21.3	20.7	21.3	42
10.3	10.8	10.7	47.5	44.9	45.2	9.7	9.9	9.9	40.3	40.4	40.4	22.4	21.9	24.3	43
67.6	65.3	65.3	257.6	247.9	246.3	51.5	51.8	51.2	215.2	213.5	213.5	228.1	204.6	224.3	44
7.5	7.5	7.5	32.1	31.7	31.7	7.0	6.8	6.7	29.5	29.9	31.1	33.2	32.1	33.3	45
23.4	22.3	22.1	86.9	86.8	87.1	24.2	24.1	23.9	77.1	79.4	78.8	56.7	54.9	54.2	46
2.3	2.3	2.3	7.1	6.3	6.2	1.3	1.3	6.2	5.5	5.5	4.6	4.6	4.7	4.7	47
133.1	130.9	130.0	373.8	369.8	369.5	74.8	76.5	76.1	291.7	296.8	298.9	307.3	303.2	312.5	48
2.4	2.4	2.4	11.7	11.9	11.9	3.0	3.0	3.0	11.4	11.4	11.6	15.9	15.6	16.0	49
11.1	11.2	11.1	47.0	47.4	47.9	12.3	12.7	12.6	35.6	37.5	37.4	47.6	46.9	51.0	50
7.0	7.9	7.8	23.6	25.6	25.5	3.3	3.5	3.5	18.3	19.4	19.1	11.0	9.4	10.8	51
4.5	4.9	4.8	15.3	15.4	15.5	2.9	3.0	2.8	11.0	10.7	10.9	11.2	11.0	11.0	52
2.6	2.5	2.5	13.2	12.4	12.6	3.9	3.9	3.9	8.9	9.0	9.1	9.7	9.8	10.7	53
55.6	54.0	53.8	130.8	128.5	128.5	31.2	31.0	30.9	116.9	111.9	114.9	81.3	83.4	80.8	54
9.2	9.4	9.2	35.9	34.2	34.3	7.1	7.2	7.2	31.0	32.2	32.1	26.0	24.2	26.2	55
18.8	19.2	18.5	90.7	93.0	89.7	17.2	18.2	18.0	81.6	86.4	81.0	80.1	77.0	79.8	56
1.2	1.2	1.2	8.0	8.3	8.3	1.8	1.7	1.7	7.4	8.0	7.7	3.0	2.8	2.9	57
5.7	6.2	5.9	25.3	26.6	26.2	7.6	8.4	8.4	20.9	22.3	22.1	11.7	11.0	11.7	58
86.9	81.7	83.1	407.5	413.0	414.9	94.1	96.3	95.1	383.4	388.1	387.5	406.2	392.9	394.6	59
58.2	53.3	54.0	222.7	229.8	232.3	58.0	59.2	58.4	202.7	203.5	204.6	210.1	206.3	205.7	60
39.8	37.2	37.3	96.6	96.7	97.7	38.8	39.7	39.2	106.0	105.6	107.5	81.7	80.3	78.7	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		
	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P
1 MASSACHUSETTS	2,646.9	2,602.4	2,619.3	(1)	(1)	(1)	86.0	86.1	85.0	669.2	624.7	625.5
2 Boston	1,461.9	1,458.1	1,478.3	(1)	(1)	(1)	47.3	47.0	47.0	291.3	285.2	287.5
3 Brockton	57.2	55.5	56.2	(1)	(1)	(1)	1.6	1.6	1.5	12.4	11.7	11.8
4 Fall River	53.5	52.6	53.6	(1)	(1)	(1)	1.5	1.3	1.3	20.0	18.9	19.6
5 Lawrence—Haverhill	115.5	111.4	111.0	(1)	(1)	(1)	3.1	3.0	3.0	46.8	42.3	41.9
6 Lowell	77.5	78.3	79.5	(1)	(1)	(1)	2.9	3.1	3.1	28.9	29.9	29.9
7 New Bedford	64.3	62.8	62.1	(1)	(1)	(1)	1.7	1.6	1.6	26.3	24.5	24.7
8 Springfield—Chicopee—Holyoke	235.6	224.9	230.6	(1)	(1)	(1)	6.4	6.3	6.1	65.0	59.2	59.4
9 Worcester	165.4	159.3	162.2	(1)	(1)	(1)	5.4	5.6	5.5	48.4	43.0	42.5
10 MICHIGAN	3,411.1	3,187.7	3,223.5	12.6	9.2	8.8	109.6	98.1	91.0	989.9	866.5	888.9
11 Ann Arbor	131.8	128.0	131.5	(1)	(1)	(1)	2.3	1.9	1.8	36.1	35.5	35.9
12 Battle Creek	63.4	60.4	60.7	(1)	(1)	(1)	1.6	1.8	1.8	20.4	17.6	17.5
13 Bay City	34.6	33.9	33.9	(1)	(1)	(1)	1.1	1.1	1.0	9.1	8.2	8.3
14 Benton Harbor	61.1	56.6	56.6	(1)	(1)	(1)	1.9	1.5	1.5	21.8	19.1	18.9
15 Detroit	1,648.3	1,537.7	1,543.8	1.2	1.0	1.0	49.1	46.4	39.7	476.9	405.6	419.2
16 Flint	188.3	176.2	179.7	(1)	(1)	(1)	6.4	4.6	4.5	71.1	61.8	64.7
17 Grand Rapids	271.6	264.5	266.1	(1)	(1)	(1)	12.0	11.2	11.1	91.3	88.2	86.9
18 Jackson	50.7	46.8	47.7	(1)	(1)	(1)	1.3	1.0	.9	14.4	12.1	12.8
19 Kalamazoo—Portage	111.6	105.7	108.2	(1)	(1)	(1)	4.4	4.1	4.0	32.3	30.5	30.7
20 Lansing—East Lansing	151.8	181.2	184.3	(1)	(1)	(1)	5.7	3.7	3.8	43.0	36.1	38.6
21 Muskegon—Norton Shores—Muskegon Hts	60.4	57.8	58.2	(1)	(1)	(1)	2.2	2.0	2.0	20.5	18.4	19.2
22 Saginaw	84.1	80.5	82.1	(1)	(1)	(1)	2.4	2.4	2.4	29.8	25.4	25.9
23 MINNESOTA	1,786.6	1,706.4	1,713.9	16.6	5.7	6.4	77.4	72.2	71.0	371.5	351.7	352.1
24 Duluth—Superior	59.7	54.5	54.3	(1)	(1)	(1)	2.0	1.7	1.8	7.4	5.5	5.6
25 Minneapolis—St. Paul	1,093.6	1,055.7	1,059.3	(1)	(1)	(1)	42.7	38.3	38.3	244.8	232.1	231.0
26 Rochester	51.8	51.8	51.4	(2)	(2)	(2)	1.8	2.3	2.3	10.7	10.3	10.2
27 St. Cloud	56.1	51.6	53.7	(1)	(1)	(1)	3.9	3.7	3.7	12.0	11.1	10.9
28 MISSISSIPPI	826.1	782.7	795.9	12.9	12.7	12.5	43.1	40.0	40.2	223.8	205.8	205.2
29 Jackson	148.6	143.1	145.5	2.1	2.1	2.0	6.4	5.7	5.5	19.2	17.2	17.2
30 MISSOURI	1,589.7	1,957.2	1,970.8	7.2	7.3	7.4	94.2	98.1	96.6	430.3	408.9	408.1
31 Kansas City	625.2	594.0	594.9	.5	.4	.4	23.3	21.4	21.1	115.7	107.7	106.3
32 St. Joseph	35.4	34.5	34.7	(2)	(2)	(2)	1.8	1.7	1.7	8.2	8.2	8.0
33 St. Louis	996.7	972.5	975.3	3.6	3.2	3.3	45.3	47.0	48.1	231.6	219.5	218.1
34 Springfield	89.1	84.8	86.7	(2)	(2)	(2)	3.7	3.7	3.4	18.6	17.3	17.0
35 MONTANA	290.4	278.4	285.1	12.2	10.0	10.1	15.1	14.3	14.1	23.9	21.5	21.3
36 Billings	49.2	48.7	49.0	(1)	(1)	(1)	2.7	2.7	2.6	4.2	4.0	4.1
37 Great Falls	29.4	30.1	29.2	(1)	(1)	(1)	1.5	1.9	1.7	1.4	1.3	1.3
38 NEBRASKA	631.9	605.1	608.5	1.8	1.5	1.5	27.0	25.5	24.9	95.5	82.6	82.5
39 Lincoln	101.1	95.1	98.1	(2)	(2)	(2)	3.4	3.0	3.0	13.4	11.8	12.1
40 Omaha	267.1	257.3	257.8	(2)	(2)	(2)	10.2	9.7	9.5	36.3	33.0	32.7
41 NEVADA	423.1	416.7	418.3	8.1	7.2	7.2	26.3	23.9	23.9	20.8	19.8	19.6
42 Las Vegas	234.3	229.6	231.3	.6	.5	.5	15.3	14.0	14.2	7.6	7.2	7.1
43 Reno	117.8	117.2	117.8	.8	.8	.8	6.4	6.1	6.0	8.6	8.0	8.0
44 NEW HAMPSHIRE	401.4	400.2	398.5	(2)	(2)	(2)	22.9	24.5	24.3	117.5	112.4	112.1
45 Manchester	75.6	75.6	76.6	(2)	(2)	(2)	3.3	3.3	3.2	17.3	17.3	17.4
46 Nashua	68.1	67.6	68.5	(2)	(2)	(2)	2.8	3.0	2.9	31.4	30.0	30.2
47 NEW JERSEY	3,106.5	3,100.0	3,065.3	2.5	2.5	2.4	118.5	119.1	118.3	781.6	723.3	724.0
48 Atlantic City	100.9	108.8	103.9	—	—	—	5.5	6.2	6.3	8.2	7.1	6.8
49 Camden	343.7	344.1	342.5	.1	.1	.1	14.2	13.9	13.9	71.8	66.2	65.9
50 Hackensack	395.8	387.0	386.4	(1)	(1)	(1)	16.0	15.0	14.8	109.7	104.2	104.7
51 Jersey City	225.3	220.6	219.1	—	—	—	5.4	5.9	5.9	69.1	62.0	61.8
52 Long Branch—Asbury Park	168.9	175.7	170.8	(1)	(1)	(1)	7.4	6.8	6.7	25.2	24.1	24.0
53 New Brunswick—Perth Amboy—Bayreville	291.7	287.0	284.8	(1)	(1)	(1)	11.6	11.3	11.3	92.3	83.4	82.7
54 Newark	942.9	939.0	933.6	.9	.8	.8	33.3	33.5	33.3	246.2	229.9	229.5
55 Paterson—Clifton—Passaic	191.0	184.0	184.4	(1)	(1)	(1)	7.1	6.3	6.6	68.2	64.0	64.6
56 Trenton	162.8	155.4	156.2	(1)	(1)	(1)	3.7	3.9	3.8	34.5	28.9	28.9
57 Vineland—Millville—Bridgeton	54.7	51.9	51.6	(1)	(1)	(1)	2.1	1.9	1.7	18.7	16.5	16.2
58 NEW MEXICO	479.7	473.5	476.1	31.8	27.0	26.4	33.9	32.3	31.9	34.2	33.2	33.6
59 Albuquerque	191.0	190.3	192.4	(1)	(1)	(1)	12.3	12.3	12.2	17.9	17.0	17.2
60 Las Cruces	25.9	29.7	31.0	—	—	—	1.7	1.8	1.8	2.9	2.9	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			
SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	
121.5	116.3	118.7	580.9	579.2	586.7	165.5	172.1	169.7	665.2	672.2	678.3	358.6	351.8	355.4	1
71.5	69.0	70.2	321.3	317.9	324.3	113.5	118.1	117.5	433.0	442.0	452.9	184.0	178.9	178.9	2
3.4	3.3	3.4	15.6	15.1	15.4	2.2	2.3	2.2	10.4	10.8	11.6	10.7	11.1	11.1	3
1.8	1.9	1.9	11.8	11.8	12.0	2.8	3.0	3.0	9.2	9.9	9.9	6.4	5.8	5.9	4
5.0	4.9	4.9	22.2	22.5	22.6	4.4	4.5	4.4	18.9	19.5	19.5	15.1	14.7	14.7	5
3.5	3.0	3.2	16.5	16.5	16.7	2.2	2.3	2.2	12.6	13.3	13.6	10.9	10.2	10.8	6
2.4	2.2	2.2	12.9	12.9	12.9	2.1	2.0	2.0	10.4	11.1	10.7	8.5	8.5	8.0	7
9.5	8.7	9.0	49.0	47.9	48.8	13.8	13.8	13.7	49.2	49.1	50.4	42.7	39.9	43.2	8
7.7	7.5	7.9	36.3	35.9	36.7	10.3	11.0	10.6	35.3	34.7	36.5	22.0	21.6	22.5	9
145.1	136.4	135.1	719.7	685.5	689.5	153.5	152.4	151.3	666.1	666.8	668.4	614.5	572.8	590.5	10
3.4	3.4	3.4	19.8	19.1	19.6	4.0	3.8	3.8	24.2	24.8	24.9	42.1	39.5	42.1	11
2.3	2.2	2.2	10.8	10.6	10.7	4.3	4.2	4.3	11.7	12.0	12.0	12.2	12.0	12.2	12
1.8	1.7	1.7	8.8	9.1	9.1	1.4	1.3	1.3	7.3	7.5	7.5	5.2	5.0	5.0	13
2.2	2.1	2.0	12.0	11.6	11.5	2.0	1.9	1.9	12.6	12.1	12.0	8.7	8.3	8.7	14
77.2	71.6	71.2	361.5	344.6	348.7	88.0	88.0	87.4	354.4	348.6	350.4	240.1	231.6	226.2	15
6.0	6.1	6.2	40.0	39.1	38.8	6.5	6.3	6.3	29.3	29.4	29.2	29.1	28.9	30.0	16
11.2	11.0	11.0	64.8	64.6	64.9	11.0	10.9	10.8	51.0	50.2	50.8	30.4	28.5	30.5	17
5.0	5.1	5.1	10.4	9.6	9.5	1.6	1.6	1.6	9.7	9.6	9.8	8.3	7.6	7.9	18
4.3	4.2	4.1	22.8	22.5	22.6	4.2	4.0	4.0	22.8	22.3	22.0	21.0	18.1	20.8	19
5.5	5.6	5.6	35.2	35.8	36.1	9.4	9.1	9.2	30.5	32.2	32.8	62.6	58.7	58.3	20
3.2	3.1	3.1	12.1	11.9	11.8	1.4	1.4	1.4	10.7	10.9	10.5	10.5	10.1	10.2	21
4.8	4.8	4.7	18.2	18.8	18.7	4.0	3.9	3.9	14.3	15.1	15.4	10.6	10.0	11.1	22
99.9	91.6	93.8	446.9	433.8	431.7	98.4	98.5	98.1	388.8	393.5	393.7	287.3	259.4	267.1	23
6.7	5.1	5.2	15.4	15.0	15.3	2.3	2.2	2.1	14.3	13.9	13.5	11.6	11.2	10.8	24
62.8	58.5	59.8	272.5	262.7	263.8	72.9	73.1	72.9	247.9	250.6	252.4	150.0	140.4	141.0	25
2.0	1.9	1.9	10.2	10.2	10.2	1.5	1.5	1.5	19.9	20.6	20.5	5.6	4.8	4.8	26
3.3	3.1	3.1	13.7	13.2	13.3	2.0	1.9	1.9	10.4	10.2	10.2	11.0	8.4	10.7	27
40.4	40.2	40.2	164.8	163.2	163.0	33.2	33.0	32.9	121.6	117.6	117.6	120.4	186.2	170.3	28
10.1	10.1	10.1	35.0	34.7	34.7	11.2	11.1	11.0	30.3	29.4	30.3	34.3	32.8	34.7	29
138.9	134.8	136.5	472.5	467.9	467.9	109.7	110.1	109.4	411.7	422.2	422.4	325.2	307.9	322.5	30
52.9	48.4	48.0	161.7	152.3	152.0	44.6	44.6	43.8	135.0	134.0	132.8	91.5	85.2	90.5	31
2.2	2.1	2.1	8.5	8.5	8.6	1.9	2.0	2.0	6.7	6.4	6.5	6.1	5.6	5.8	32
72.7	68.3	69.1	228.9	225.7	226.9	57.8	57.3	56.8	225.1	226.3	226.9	131.7	125.2	126.1	33
7.1	7.2	7.2	24.5	23.7	23.9	3.5	3.5	3.5	19.9	19.6	19.9	11.8	9.8	11.8	34
23.0	22.7	23.2	75.0	77.3	78.4	13.0	12.7	12.5	57.6	57.9	57.1	70.7	62.0	68.4	35
4.7	4.5	4.5	16.0	16.4	16.5	2.4	2.5	2.5	11.7	11.5	11.2	7.4	7.1	7.6	36
1.9	2.1	2.1	9.8	10.6	9.6	2.1	2.1	2.0	7.1	7.4	7.4	5.6	4.8	5.1	37
47.2	43.5	43.3	164.1	160.2	160.5	41.2	41.7	41.1	122.9	122.8	123.5	132.2	127.4	131.1	38
7.4	6.9	6.9	22.7	22.0	22.4	6.9	7.0	6.9	17.5	16.7	16.9	29.8	27.8	29.9	39
24.6	23.0	23.0	67.5	65.4	65.8	23.9	24.1	23.8	61.7	60.7	61.3	42.9	41.4	41.9	40
25.5	25.4	25.3	85.9	86.6	86.4	18.5	18.0	17.9	181.1	181.5	180.3	56.9	54.3	57.7	41
14.0	13.9	13.9	48.8	48.7	48.7	10.6	10.3	10.3	111.0	109.7	109.3	26.4	25.3	27.3	42
8.3	8.0	8.0	26.1	26.6	26.6	6.2	5.9	5.8	45.3	46.6	46.4	16.1	15.2	16.2	43
14.7	14.2	14.8	91.7	92.1	91.1	20.7	20.9	20.6	79.2	84.0	79.9	54.7	52.1	55.7	44
4.8	4.8	4.8	20.0	20.0	20.3	6.3	6.4	6.3	15.5	15.8	16.0	8.4	8.0	8.6	45
2.1	2.1	2.2	13.9	14.5	14.6	2.0	2.1	2.1	10.5	10.9	11.0	5.4	5.0	5.5	46
194.3	188.8	191.2	700.9	703.1	700.2	161.8	166.0	163.3	644.5	675.8	660.9	502.3	521.4	505.0	47
4.0	3.9	3.9	20.6	21.8	20.0	5.0	4.7	4.7	41.8	48.9	46.8	15.8	16.2	15.4	48
15.5	15.2	15.2	88.9	89.0	89.8	17.4	17.7	17.3	71.7	75.6	75.2	64.2	66.4	65.1	49
20.5	20.1	20.0	115.9	110.1	110.6	17.9	18.4	18.2	77.8	80.8	79.6	38.2	38.4	38.5	50
25.2	24.1	24.1	45.4	44.1	45.5	8.1	8.6	8.4	32.4	32.0	33.0	39.7	43.9	40.4	51
6.7	6.7	6.9	42.4	45.8	44.4	8.0	8.1	8.0	44.2	47.9	46.4	35.0	36.3	34.4	52
24.0	23.9	24.1	67.2	66.2	67.6	11.7	11.8	11.6	43.5	46.6	45.9	41.5	43.8	41.6	53
75.1	74.6	74.5	180.2	177.8	179.5	65.3	66.9	66.7	202.4	209.1	208.0	139.6	146.4	141.3	54
6.6	5.9	6.0	40.7	38.1	39.0	9.0	8.9	8.8	34.5	34.8	34.8	25.0	26.0	24.6	55
5.3	5.1	5.2	24.3	23.2	23.6	8.5	8.8	8.6	40.9	40.1	40.5	45.7	45.4	45.6	56
3.3	2.8	3.0	8.9	8.8	8.8	2.5	2.6	2.6	8.7	8.7	8.7	10.6	10.6	10.6	57
29.3	28.5	29.1	108.9	111.4	111.5	21.7	22.4	22.3	94.0	98.5	95.6	125.9	120.2	125.3	58
11.9	11.5	11.5	48.8	49.3	49.5	10.9	11.1	11.1	46.0	47.9	47.6	43.2	41.2	43.3	59
1.2	1.1	1.3	5.6	5.8	5.8	1.3	1.3	1.2	3.9	4.0	3.9	13.3	12.8	13.9	60

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and areas	Total			Mining			Construction			Manufacturing		
	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P
1 NEW YORK.....	7,255.2	7,264.4	7,251.1	6.6	6.5	6.4	229.7	221.0	220.2	1,446.0	1,371.2	1,377.5
2 Albany—Schenectady—Troy.....	338.1	336.0	335.5	(1)	(1)	(1)	10.3	10.0	10.0	56.1	50.1	51.8
3 Binghamton.....	116.2	116.8	117.1	(1)	(1)	(1)	4.1	4.1	3.9	43.4	42.8	41.9
4 Buffalo.....	493.1	470.8	472.0	(1)	(1)	(1)	17.8	16.1	15.8	128.7	111.5	112.6
5 Elmira.....	36.6	34.2	34.0	(1)	(1)	(1)	1.2	1.2	1.2	11.4	8.9	8.8
6 Monroe County ¹	341.3	342.3	341.0	(1)	(1)	(1)	10.7	10.5	10.2	139.6	140.6	138.1
7 Nassau—Suffolk ¹	920.2	932.5	928.8	(1)	(1)	(1)	37.2	36.3	35.9	168.3	165.5	165.1
8 New York—Northeastern New Jersey.....	6,711.4	(*)	2.9	(*)	(*)	(*)	207.9	(*)	(*)	1,320.9	(*)	(*)
9 New York and Nassau—Suffolk ¹	4,724.2	4,749.2	4,739.0	1.9	1.8	1.8	143.7	138.7	138.8	746.6	719.2	725.2
10 New York SMSA ¹	3,804.0	3,816.7	3,810.2	1.7	1.6	1.6	106.4	102.4	103.0	578.3	553.7	560.1
11 New York City ¹	3,352.2	3,365.0	3,357.6	1.4	1.4	1.4	86.0	81.8	82.5	486.5	468.2	471.5
12 Poughkeepsie.....	100.9	103.3	102.3	(1)	(1)	(1)	2.9	2.9	2.9	33.1	34.6	34.0
13 Rochester.....	419.8	418.9	417.0	(1)	(1)	(1)	12.9	12.5	12.2	161.6	160.7	158.0
14 Rockland County ¹	82.1	83.4	82.9	(1)	(1)	(1)	2.8	3.1	3.0	15.8	15.4	15.4
15 Syracuse.....	256.7	252.0	255.2	(1)	(1)	(1)	10.3	10.4	10.5	60.0	55.4	56.0
16 Utica—Rome.....	114.2	112.9	112.5	(1)	(1)	(1)	2.9	2.9	2.9	30.1	27.5	27.4
17 Westchester County ¹	357.2	355.3	356.9	(1)	(1)	(1)	16.8	16.7	16.7	74.7	68.8	71.9
18 NORTH CAROLINA.....	2,403.3	2,298.3	2,344.4	4.8	4.7	4.8	116.2	106.0	105.4	824.8	771.4	774.1
19 Asheville.....	73.2	71.8	71.5	(1)	(1)	(1)	3.2	2.9	3.0	22.1	20.6	20.5
20 Charlotte—Gastonia.....	341.8	327.9	331.8	(1)	(1)	(1)	18.5	17.7	17.4	95.6	91.6	91.2
21 Greensboro—Winston-Salem—High Pt.....	392.2	373.7	380.8	(1)	(1)	(1)	17.5	15.7	15.7	149.3	140.1	140.8
22 Raleigh—Durham.....	277.8	268.0	276.3	(1)	(1)	(1)	13.7	13.0	12.9	45.9	44.7	44.6
23 NORTH DAKOTA.....	252.9	251.1	254.0	11.6	9.7	9.6	18.2	18.7	18.2	15.2	14.7	15.6
24 Fargo—Moorhead.....	66.8	60.1	61.9	(2)	(2)	(2)	3.5	3.5	3.4	4.0	4.7	4.9
25 OHIO.....	4,359.0	4,179.0	4,217.5	32.6	31.9	32.9	165.9	154.0	154.5	1,252.9	1,106.4	1,116.4
26 Akron.....	262.9	250.9	255.9	(*)	(*)	(*)	8.5	7.9	7.9	76.8	69.2	70.0
27 Canton.....	158.8	153.4	154.2	(*)	(*)	(*)	5.6	5.4	5.4	56.5	50.3	50.6
28 Cincinnati.....	598.2	582.4	588.3	(*)	(*)	(*)	23.6	22.1	22.3	159.7	150.1	150.4
29 Cleveland.....	883.1	857.7	859.2	(*)	(*)	(*)	29.5	27.3	27.5	249.9	226.6	228.6
30 Columbus.....	508.5	502.5	505.1	(*)	(*)	(*)	19.3	18.1	18.0	94.3	88.0	88.2
31 Dayton.....	356.2	341.0	347.2	(*)	(*)	(*)	12.5	11.6	11.5	99.6	88.5	89.4
32 Toledo.....	291.8	281.3	283.8	(*)	(*)	(*)	12.3	10.1	11.2	76.9	68.8	69.2
33 Youngstown—Warren.....	202.2	183.0	188.8	(*)	(*)	(*)	6.9	6.2	6.3	69.4	52.7	56.0
34 OKLAHOMA.....	1,208.8	1,203.7	1,204.3	99.5	96.5	90.8	54.7	59.2	57.5	200.9	178.2	172.7
35 Enid.....	26.8	25.9	25.7	3.2	2.8	2.7	1.4	1.3	1.3	2.9	2.4	2.2
36 Lawton.....	29.6	28.8	29.4	(1)	(1)	(1)	1.4	1.4	1.5	3.2	3.1	3.1
37 Oklahoma City.....	429.0	438.6	444.4	27.3	29.1	29.0	22.4	23.6	23.2	57.4	52.1	51.0
38 Tulsa.....	325.1	324.5	323.7	26.9	28.5	28.4	16.3	17.5	17.2	68.3	61.0	59.8
39 OREGON.....	1,031.8	964.3	975.1	2.5	2.5	2.6	39.2	32.5	33.0	213.1	196.7	196.5
40 Eugene—Springfield.....	100.6	92.7	94.5	(1)	(1)	(1)	4.0	3.0	3.0	19.6	17.5	17.9
41 Jackson County.....	-	-	-	-	-	-	-	-	-	7.5	6.6	6.7
42 Portland.....	546.6	515.5	518.4	(1)	(1)	(1)	22.1	19.8	19.5	109.6	100.9	99.9
43 Salem.....	89.2	89.1	90.5	(1)	(1)	(1)	3.4	2.9	3.1	17.0	18.4	17.6
44 PENNSYLVANIA.....	4,720.4	4,483.3	4,496.1	50.4	41.5	41.7	198.2	173.9	171.3	1,318.6	1,147.8	1,143.9
45 Allentown—Bethlehem—Easton.....	267.2	250.5	250.6	(1)	(1)	(1)	8.5	7.7	7.4	106.4	92.2	92.6
46 Altoona.....	50.2	47.4	48.5	(1)	(1)	(1)	2.1	2.1	2.2	13.1	12.2	12.0
47 Delaware Valley ¹	1,551.9	1,529.5	1,534.6	(1)	(1)	(1)	62.7	56.3	56.2	360.8	330.6	329.9
48 Erie.....	110.7	105.5	104.9	(1)	(1)	(1)	3.1	3.6	3.1	41.9	38.4	38.2
49 Harrisburg.....	227.2	226.2	223.4	(1)	(1)	(1)	8.4	7.7	7.5	42.3	41.3	40.0
50 Johnstown.....	82.9	77.7	75.4	8.4	6.7	6.7	3.0	2.2	2.3	16.8	15.1	13.7
51 Lancaster.....	155.1	148.6	148.5	(1)	(1)	(1)	6.6	6.5	6.2	60.7	55.7	55.5
52 Northeast Pennsylvania.....	238.8	233.8	227.9	1.2	1.0	1.1	12.1	9.9	9.8	69.0	63.5	62.2
53 Philadelphia SMSA ¹	1,895.3	1,873.9	1,877.0	(1)	(1)	(1)	77.1	70.3	70.1	433.1	396.8	395.5
54 Philadelphia City ¹	748.0	752.6	755.1	(1)	(1)	(1)	20.2	18.3	19.1	131.6	119.4	120.2
55 Pittsburgh.....	947.6	860.2	856.9	9.8	8.4	8.9	49.2	43.9	44.2	237.8	183.2	179.1
56 Reading.....	141.6	133.5	134.3	(1)	(1)	(1)	5.4	4.2	3.9	54.8	51.0	50.9
57 Williamsport.....	46.9	44.9	44.4	(1)	(1)	(1)	1.5	1.4	1.4	16.4	15.1	14.3
58 York.....	157.4	148.0	149.2	(1)	(1)	(1)	7.0	6.8	6.7	66.2	59.1	59.4
59 RHODE ISLAND.....	407.7	392.6	394.7	(1)	(1)	(1)	12.9	12.6	12.5	128.3	117.9	118.8
60 Providence—Warwick—Pawtucket.....	413.4	394.7	398.6	(1)	(1)	(1)	13.1	12.5	12.4	141.9	129.9	131.3
61 SOUTH CAROLINA.....	1,196.0	1,159.7	1,172.3	(1)	(1)	(1)	71.4	66.3	65.7	391.9	357.3	358.3
62 Charleston—North Charleston.....	152.2	153.1	153.4	(1)	(1)	(1)	9.5	10.2	10.4	21.3	18.5	18.7
63 Columbia.....	179.9	174.1	177.1	(1)	(1)	(1)	8.5	8.9	8.7	27.5	24.9	25.3
64 Greenville—Spartanburg.....	269.5	257.5	260.2	(1)	(1)	(1)	16.7	15.2	15.0	103.5	94.3	94.1

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			
SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	
433.2	421.3	427.0	1,475.6	1,458.4	1,469.0	660.6	677.6	672.9	1,797.1	1,831.8	1,821.9	1,246.4	1,276.6	1,256.3	1
15.7	15.1	15.3	68.5	67.9	68.6	16.0	16.4	16.2	74.1	78.0	74.8	97.4	98.5	98.8	2
4.7	4.8	4.7	21.5	21.5	21.6	4.2	4.2	4.2	19.6	19.7	19.5	20.9	19.8	21.2	3
26.8	24.6	25.4	110.5	109.1	109.5	22.4	22.7	22.5	107.3	104.3	106.6	79.6	82.5	79.7	4
1.3	1.3	1.3	8.7	8.7	8.6	1.2	1.2	1.1	6.8	6.9	7.0	6.1	6.0	5.8	5
10.3	10.4	10.2	60.0	59.7	60.2	14.4	14.9	14.6	69.8	69.8	71.4	36.5	36.5	36.2	6
41.4	41.1	43.6	241.1	242.5	243.6	52.9	53.4	53.0	218.2	228.1	225.3	161.0	165.6	162.4	7
474.1	(*)	(*)	1,399.2	(*)	(*)	644.3	(*)	(*)	1,623.8	(*)	(*)	1,038.3	(*)	(*)	8
320.9	314.0	318.1	955.8	944.5	952.8	553.6	567.1	564.6	1,265.8	1,303.0	1,296.5	735.9	761.0	741.0	9
279.5	272.9	274.5	714.7	702.0	709.2	500.7	513.7	511.6	1,047.8	1,075.1	1,071.5	574.9	595.4	578.6	10
255.9	249.7	251.1	609.0	597.9	604.1	477.9	490.6	488.7	935.6	957.4	956.7	500.0	518.1	501.6	11
2.9	2.9	2.9	16.6	16.8	16.9	2.9	3.1	3.0	19.3	19.8	19.6	23.2	23.2	23.0	12
12.8	12.8	12.6	77.7	78.0	78.6	15.9	16.5	16.1	82.0	82.4	83.7	56.9	56.0	55.7	13
3.4	3.5	3.4	18.1	18.2	18.3	2.7	2.8	2.8	18.3	19.5	19.0	20.9	21.0	21.0	14
14.6	14.6	14.7	57.3	56.8	56.8	16.4	16.8	16.6	54.4	50.8	54.9	45.9	47.2	45.7	15
4.0	4.0	4.1	22.8	23.0	23.0	5.6	5.7	5.6	21.0	21.3	21.4	27.9	28.4	28.2	16
19.6	19.1	19.4	84.6	82.8	83.8	19.6	19.8	19.5	90.9	94.9	92.9	51.0	53.1	52.6	17
117.8	116.4	116.1	474.6	471.2	465.8	98.4	99.5	98.5	356.5	366.0	364.9	410.2	363.1	410.8	18
3.7	3.5	3.5	16.1	16.2	16.3	2.3	2.4	2.4	13.4	14.8	13.5	12.4	11.4	12.3	19
31.9	31.3	31.1	82.3	79.4	79.1	21.5	21.8	21.6	54.7	54.3	54.9	37.3	31.8	36.5	20
21.5	21.2	21.1	78.1	77.0	77.0	19.0	19.1	18.9	60.5	61.4	61.2	46.3	39.2	46.1	21
13.5	14.4	14.3	53.7	52.1	52.6	15.9	16.0	15.8	59.6	59.7	60.3	75.5	68.1	75.8	22
17.2	16.7	16.8	67.0	68.1	67.6	11.8	12.1	12.0	52.8	54.7	54.9	59.1	56.4	59.3	23
3.9	3.7	3.7	18.9	19.1	19.2	3.9	4.0	4.0	13.9	14.3	14.3	12.7	10.8	12.4	24
221.2	214.4	213.8	954.5	939.2	941.2	206.2	208.1	207.0	871.1	897.8	905.0	654.6	627.1	646.8	25
14.0	13.6	13.6	58.0	58.3	58.4	9.2	9.3	9.2	53.3	55.2	54.1	42.4	36.8	42.0	26
7.1	7.0	7.0	33.6	33.6	33.7	6.4	6.5	6.6	30.3	31.0	31.2	18.1	18.1	18.2	27
33.4	32.6	32.7	140.3	137.5	138.2	32.6	32.5	32.4	126.9	131.1	132.0	81.4	76.1	79.8	28
46.0	44.6	44.3	200.4	195.4	196.4	48.0	48.4	48.1	194.2	197.5	199.4	113.8	116.6	113.7	29
24.7	23.7	23.7	121.2	120.8	121.4	39.6	41.6	41.5	110.2	113.9	114.3	98.5	95.4	97.0	30
13.5	13.2	13.1	73.6	72.2	72.8	13.6	14.2	14.1	75.5	77.0	78.8	67.7	63.9	67.2	31
19.5	19.1	19.0	66.2	65.4	65.3	10.5	10.8	10.8	64.5	67.3	67.2	41.4	39.3	40.6	32
9.3	9.0	9.1	44.5	43.9	43.9	7.2	7.4	7.4	40.1	41.1	41.1	24.0	22.8	24.1	33
69.4	68.2	67.6	284.2	290.5	291.6	58.7	62.3	61.9	204.8	217.5	217.6	236.6	231.3	244.6	34
2.7	2.8	2.8	7.1	7.2	7.1	1.2	1.2	1.2	4.5	4.6	4.6	3.8	3.6	3.8	35
1.4	1.4	1.4	7.3	7.2	7.2	1.2	1.3	1.3	4.8	4.6	4.6	10.3	9.8	10.3	36
24.2	25.2	25.5	107.3	110.5	112.6	26.5	28.2	28.2	73.5	79.7	80.3	90.4	90.2	94.6	37
24.0	24.4	24.2	73.8	74.9	75.0	15.9	16.5	16.2	64.4	67.0	67.6	35.5	34.7	35.3	38
60.7	56.4	56.5	258.9	246.6	247.1	68.7	65.0	64.3	193.8	186.5	186.6	194.9	178.1	188.5	39
4.9	4.7	4.7	25.4	23.9	23.9	5.5	5.3	5.3	19.5	19.7	19.7	21.7	18.6	20.0	40
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41
37.0	35.3	35.3	143.3	138.8	139.4	45.6	44.6	44.4	111.4	105.0	104.9	77.6	71.1	75.0	42
2.8	2.8	2.8	19.3	18.1	18.8	5.6	5.6	5.6	15.6	15.5	15.9	25.5	25.8	26.7	43
260.6	235.5	244.0	984.8	962.9	966.1	241.4	243.9	241.6	1,017.9	1,015.1	1,020.6	648.5	662.7	666.9	44
14.2	13.7	13.6	53.1	50.2	50.2	9.8	9.7	9.5	46.8	48.2	47.9	28.4	28.8	29.4	45
6.2	4.1	5.9	10.8	10.6	10.5	1.6	1.6	1.5	9.1	8.8	8.8	7.3	8.0	7.6	46
82.9	75.6	77.8	329.7	320.8	325.0	111.9	113.8	113.0	407.8	407.3	411.1	196.1	225.1	221.6	47
4.9	4.7	4.5	21.7	21.5	21.4	4.8	4.9	4.8	22.7	22.1	22.3	11.6	10.3	10.6	48
16.8	16.1	16.3	45.6	45.6	44.8	12.7	13.1	12.8	42.1	43.8	43.1	59.3	58.6	58.9	49
4.9	4.4	4.7	15.7	15.1	15.1	4.0	4.2	4.0	16.1	15.9	15.9	14.0	14.1	13.0	50
6.4	6.2	5.9	34.2	33.9	33.6	5.9	6.1	6.1	27.7	28.0	28.4	13.6	12.2	12.8	51
13.0	12.4	12.6	50.4	48.6	48.2	10.0	10.7	10.6	47.5	51.6	49.6	35.6	36.1	33.8	52
97.8	90.8	93.0	418.7	409.8	414.9	129.3	131.6	130.4	478.4	483.1	486.5	260.9	291.5	286.6	53
51.7	48.6	48.8	143.0	137.1	135.8	66.6	65.9	65.6	219.1	213.4	219.4	115.8	149.9	142.2	54
55.9	50.4	50.7	212.4	209.7	207.6	46.7	47.6	46.9	221.8	215.6	220.1	114.0	101.4	99.4	55
6.5	6.3	6.6	28.0	26.8	26.6	6.5	6.5	6.4	23.7	24.2	24.1	16.7	14.5	15.8	56
2.3	2.0	2.1	9.8	9.7	9.7	2.2	2.2	2.2	8.3	8.5	8.5	6.4	6.0	6.2	57
7.6	7.1	7.4	33.0	32.7	32.8	4.1	4.1	3.9	22.1	22.2	22.5	17.4	16.0	16.5	58
13.3	13.1	13.5	83.2	79.4	79.9	21.1	21.3	21.2	90.4	90.5	91.2	58.5	57.8	57.6	59
13.2	12.6	13.3	82.2	77.9	78.9	21.0	21.1	21.1	86.0	86.0	87.0	56.0	54.7	54.6	60
54.4	54.6	54.2	233.3	240.4	238.6	50.6	52.8	52.3	167.7	175.5	175.1	226.7	212.8	228.1	61
9.2	8.7	8.7	33.5	34.1	33.9	6.8	7.3	7.2	26.1	29.0	28.8	45.8	45.3	45.7	62
9.6	9.7	9.8	37.2	37.1	37.0	14.3	15.0	14.8	27.9	27.4	27.4	54.9	51.1	54.1	63
10.1	9.2	9.2	54.7	55.3	55.1	10.2	10.5	10.4	38.2	39.5	40.0	36.0	33.5	36.4	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 area	Total			Mining			Contract Construction			Manufacturing		
	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P
1 SOUTH DAKOTA	235.7	230.7	233.1	3.0	1.6	1.5	11.6	9.5	9.4	25.9	25.3	24.9
2 Sioux Falls	54.1	53.6	54.2	(2)	(2)	(2)	2.5	2.8	2.9	7.3	7.4	7.2
3 TENNESSEE	1,762.5	1,704.9	1,714.1	10.7	11.3	11.2	79.6	82.3	82.3	520.9	478.6	476.2
4 Chattanooga	169.1	164.1	165.0	1.2	1.4	1.4	5.9	5.8	6.0	49.2	45.5	45.6
5 Knoxville	201.9	203.1	202.1	1.6	1.5	1.5	10.3	9.3	9.2	52.0	48.6	47.9
6 Memphis	359.2	346.2	350.1	.2	.2	.2	14.6	13.7	14.0	59.7	54.3	54.2
7 Nashville—Davidson	362.6	347.2	348.4	(1)	(1)	(1)	17.1	16.6	16.8	84.4	75.8	75.8
8 TEXAS	6,204.7	6,222.5	6,216.4	301.1	293.6	289.2	441.1	444.3	442.0	1,118.2	1,035.2	1,023.7
9 Dallas—Fort Worth	1,528.3	1,547.4	1,555.8	31.0	33.3	33.4	81.1	85.5	83.8	332.0	314.5	312.1
10 Houston	1,565.8	1,542.6	1,537.7	103.3	95.3	94.7	151.9	142.9	140.1	265.6	248.4	244.6
11 San Antonio	412.0	406.8	411.6	3.3	3.6	3.5	27.1	27.7	27.5	52.8	48.8	48.9
12 UTAH	566.8	558.4	564.1	21.4	18.5	18.4	30.7	28.3	28.1	91.8	88.0	87.6
13 Salt Lake City—Ogden	396.5	393.7	395.2	8.2	6.1	6.0	20.3	17.9	17.7	62.3	60.4	59.8
14 VERMONT	203.7	201.8	203.7	.7	.6	.6	12.1	11.7	11.5	51.1	49.5	49.3
15 Burlington ¹³	59.8	59.1	60.0	—	—	—	—	—	—	15.9	15.9	15.5
16 Springfield ¹³	14.7	14.1	14.1	—	—	—	—	—	—	6.2	5.5	5.3
17 VIRGINIA	2,178.9	2,166.4	2,179.3	23.5	22.2	22.1	118.4	110.1	107.9	416.1	397.7	400.4
18 Bristol	27.3	26.8	27.4	(1)	(1)	(1)	.9	.7	.7	9.4	8.9	8.9
19 Lynchburg	70.8	68.1	68.8	(1)	(1)	(1)	2.8	2.7	2.6	29.1	26.2	26.6
20 Newport News—Hampton	152.0	156.9	156.2	(1)	(1)	(1)	6.9	6.6	6.4	34.1	36.3	36.3
21 Norfolk—Virginia Beach—Portsmouth	293.6	290.6	292.5	(1)	(1)	(1)	17.6	17.3	17.5	30.3	28.0	28.6
22 Northern Virginia ¹⁴	465.5	478.5	479.0	.4	.4	.4	29.6	27.2	27.0	20.1	21.9	22.0
23 Petersburg—Colonial Hts.—Hopewell	44.8	44.8	45.7	(1)	(1)	(1)	2.0	2.0	2.1	10.3	9.9	9.8
24 Richmond	329.1	325.8	329.6	.3	.3	.3	17.8	17.4	17.1	57.3	53.9	54.1
25 Roanoke	102.6	101.9	102.7	.2	.1	.2	4.6	4.6	4.7	21.1	19.5	20.1
26 WASHINGTON	1,606.2	1,546.9	(*)	3.3	3.0	(*)	92.1	77.7	(*)	309.1	288.1	(*)
27 Seattle—Everett	771.9	(*)	(*)	(1)	(*)	(*)	38.8	(*)	(*)	168.6	(*)	(*)
28 Spokane	124.5	(*)	(*)	(1)	(*)	(*)	5.8	(*)	(*)	16.4	(*)	(*)
29 Tacoma	143.9	(*)	(*)	(1)	(*)	(*)	7.3	(*)	(*)	22.5	(*)	(*)
30 WEST VIRGINIA	636.4	603.3	598.3	67.6	58.1	55.0	30.1	26.5	25.6	112.3	96.7	97.9
31 Charleston	111.4	109.6	108.5	6.8	6.3	5.7	6.0	5.3	5.0	16.7	16.1	16.2
32 Huntington—Ashland	103.0	99.3	97.6	1.2	1.3	1.2	5.1	4.4	4.2	25.0	21.8	21.6
33 Parkersburg—Marietta	58.9	56.7	57.0	1.4	1.4	1.4	3.3	3.1	3.0	16.7	15.0	15.4
34 Wheeling	64.7	61.9	60.8	4.9	4.7	4.4	2.9	2.5	2.4	11.8	9.3	8.9
35 WISCONSIN	1,557.9	1,873.0	1,883.4	2.3	2.1	2.1	64.9	55.5	55.3	566.3	505.4	504.9
36 Appleton—Oshkosh	126.1	121.5	121.4	(1)	(1)	(1)	5.1	4.6	4.7	48.2	44.2	43.8
37 Eau Claire	48.9	46.0	47.4	(1)	(1)	(1)	1.8	1.2	1.2	9.0	8.7	8.6
38 Green Bay	80.6	79.8	80.0	(1)	(1)	(1)	3.4	3.3	3.4	23.0	22.5	22.0
39 Janesville—Beloit	51.2	45.4	49.0	(1)	(1)	(1)	1.3	1.1	1.1	19.9	14.5	17.5
40 Kenosha	43.3	41.8	43.2	(1)	(1)	(1)	1.6	1.7	1.5	17.2	16.6	17.6
41 La Crosse	46.2	44.1	45.8	(1)	(1)	(1)	1.7	1.1	1.1	10.6	10.2	10.0
42 Madison	173.1	168.7	170.4	(1)	(1)	(1)	6.5	5.4	5.2	20.9	19.9	19.8
43 Milwaukee	663.6	627.9	627.5	(1)	(1)	(1)	18.7	15.4	15.6	198.6	170.0	167.1
44 Racine	67.1	60.8	61.7	(1)	(1)	(1)	1.6	1.8	1.6	27.6	22.3	23.1
45 WYOMING	222.2	215.0	214.2	39.7	39.3	39.4	20.4	18.7	18.5	10.5	10.2	10.0
46 Casper	40.1	37.5	38.7	7.4	6.4	5.9	3.4	4.3	4.5	2.1	1.4	1.2
47 Cheyenne	30.8	29.9	29.8	(1)	(1)	(1)	1.9	1.7	1.6	1.4	1.4	1.2
48 PUERTO RICO	651.4	615.6	(*)	.8	.7	(*)	30.3	20.8	(*)	152.2	139.0	(*)
49 Caguas	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
50 Mayaguez	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
51 Ponce	(*)	(*)	(*)	(*)	(*)	(*)	2.1	1.7	(*)	(*)	(*)	(*)
52 San Juan	(*)	(*)	(*)	(1)	(1)	(1)	21.3	15.2	(*)	(*)	(*)	(*)
53 VIRGIN ISLANDS	36.4	36.0	34.8	(2)	(2)	(2)	3.7	3.2	3.2	3.0	2.6	2.6

¹ Combined with services.

² Combined with construction.

³ Revised to 1981 benchmark; not strictly comparable with previously published data.

⁴ Area included in Chicago—Gary Standard Consolidated Statistical Area.

⁵ Subarea Baltimore Standard Metropolitan Statistical Area.

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

⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

⁸ Total includes data for industry divisions not shown separately.

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

P = preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

ESTABLISHMENT DATA
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			
SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	
12.8 4.4	12.5 4.5	12.8 4.5	65.6 15.9	64.3 15.6	63.6 15.4	11.4 3.5	11.8 3.5	11.7 3.6	52.7 13.9	52.9 13.9	52.5 14.0	56.7 6.6	52.8 5.9	56.7 6.6	1 2
86.5 7.7 8.3 27.4 20.1	81.9 7.4 7.8 26.1 19.4	82.3 7.3 43.9 26.0 19.3	373.9 34.0 44.8 97.6 80.6	364.7 34.1 44.0 95.2 78.9	364.4 34.0 8.5 95.0 78.7	77.9 9.8 9.0 20.1 24.7	76.8 9.9 9.0 20.2 23.8	75.9 9.8 9.0 20.2 23.7	312.2 29.4 33.4 75.9 76.2	331.5 28.5 36.7 77.8 74.1	326.3 27.9 37.0 78.0 74.6	300.8 31.9 43.9 63.7 59.5	277.8 31.5 45.4 58.7 58.6	295.5 33.0 45.8 62.5 59.5	3 4 5 6 7
389.2 98.9 109.2 19.3	389.5 96.8 107.0 19.1	386.2 96.7 106.2 18.8	1,522.9 404.1 376.8 104.1	1,577.5 419.4 372.6 103.4	1,576.9 420.9 372.6 103.9	348.0 115.1 92.8 27.3	361.0 121.2 99.1 28.2	359.4 120.7 98.2 28.3	1,100.2 283.8 305.8 84.4	1,137.2 304.3 312.2 85.7	1,140.0 306.4 312.4 85.9	984.0 182.3 165.0 93.7	984.2 172.4 165.1 90.3	999.0 181.8 168.9 94.8	8 9 10 11
35.2 27.5	37.0 28.7	36.7 28.6	131.9 97.9	130.8 96.5	131.0 96.8	26.3 21.2	27.0 22.0	27.1 22.1	106.3 71.5	108.5 75.3	110.9 75.0	123.3 87.7	120.5 86.6	124.4 89.0	12 13
8.6 2.4 .7	8.8 2.4 .7	8.8 12.6	43.3 12.5	43.8 12.8	44.0 —	8.2 —	8.4 —	8.3 —	44.1 12.5	44.9 12.4	45.6 12.8	35.6 —	34.1 —	35.6 —	14 15 16
117.9 1.1 2.7 5.1 19.6 31.9 1.2 1.2 19.8 9.9	118.4 1.2 2.6 5.3 20.2 32.6 1.2 1.2 19.6 9.9	118.2 6.5 12.0 29.0 71.7 112.0 8.8 9.3 19.7 25.2	468.6 7.1 12.4 30.1 71.5 114.8 9.3 9.2 76.4 25.7	476.3 7.1 12.4 30.1 71.5 114.9 9.2 9.2 77.8 25.7	475.0 7.1 12.4 30.1 71.5 114.9 9.2 9.2 77.4 25.7	107.5 .9 3.3 4.8 14.8 29.4 1.2 1.2 26.4 6.1	107.4 .9 3.3 5.2 15.3 29.8 1.2 1.2 26.4 6.1	107.5 .9 3.3 5.2 15.1 29.8 1.2 1.2 26.4 6.0	423.7 3.5 10.9 31.7 60.0 125.1 6.8 6.8 60.6 20.7	432.2 3.5 11.5 33.2 62.4 129.1 7.3 7.3 62.4 20.9	430.3 3.7 11.5 32.5 61.8 129.1 7.4 7.4 61.9 21.0	503.2 5.1 9.9 40.4 79.5 122.8 14.5 14.5 70.6 14.9	502.1 4.5 9.3 40.3 75.8 123.8 13.7 13.7 68.0 15.0	517.9 4.9 9.8 40.8 78.1 124.7 14.8 14.8 73.0 15.3	17 1 1 20 21 22 23 24 25
90.5 51.5 8.2 6.5	86.8 (*) (*) (*)	391.0 187.6 35.3 34.1	384.0 (*) (*) (*)	(*) (*) (*) (*)	91.8 57.4 7.9 7.1	92.4 57.4 30.8 34.7	(*) (*) (*) (*)	322.4 156.3 30.8 34.7	323.3 151.7 20.1 31.7	(*) (*) (*) (*)	306.0 111.7 20.1 31.7	291.6 (*) (*) (*)	26 27 28 29		
42.5 9.5 9.8 2.5 3.6	41.5 9.3 8.9 2.4 3.6	41.3 9.3 8.9 12.9 15.4	132.5 26.4 24.4 12.9 15.4	129.5 26.1 24.1 13.1 15.2	129.4 26.1 24.0 13.1 15.2	22.0 5.2 3.6 2.1 2.8	22.0 5.1 3.6 2.0 2.8	21.9 5.1 3.5 2.0 2.8	103.3 21.2 15.8 10.3 14.1	101.4 21.2 16.0 10.0 14.2	102.6 21.4 15.9 10.1 14.2	126.1 19.7 18.0 9.8 9.3	127.5 20.3 19.2 9.8 9.2	124.7 19.6 18.3 9.7 9.2	30 31 32 33 34
92.3 4.2 2.7 6.0 2.0 1.4 2.2 6.3 34.6	84.4 4.1 2.7 6.1 2.6 1.2 1.9 6.2 31.5	88.1 4.2 13.1 12.5 11.0 1.3 1.9 6.5 33.2	439.8 26.1 13.1 12.5 10.8 8.4 12.0 36.9 142.2	435.6 25.4 12.5 12.5 10.8 8.2 11.7 36.8 139.1	434.5 25.2 20.2 20.2 10.8 8.2 11.7 37.4 138.8	96.6 5.6 2.6 2.6 1.4 1.0 1.1 13.7 40.6	98.5 5.8 2.6 2.6 1.4 1.0 1.1 14.0 41.1	97.7 5.8 1.7 1.7 1.4 1.0 1.1 13.7 40.9	382.0 21.5 10.1 15.5 9.0 8.0 11.2 33.1 147.5	391.3 22.0 10.0 15.4 8.8 7.5 11.9 33.4 150.2	388.5 22.0 9.8 15.6 10.6 7.7 12.1 33.8 150.3	313.7 15.2 10.6 10.1 9.7 5.7 7.4 55.6 81.5	300.3 15.4 9.3 10.1 9.7 5.7 6.2 53.0 80.6	312.4 15.7 10.7 10.0 9.0 6.0 6.2 54.0 81.5	35 36 37 38 39 40 41 42 43
17.9 2.8 4.5	17.4 2.6 4.0	16.9 2.4 3.8	50.4 10.9 7.2	50.2 9.9 7.6	48.8 1.7 1.6	7.4 1.8 1.6	7.5 1.8 1.5	33.7 5.8 5.6	34.2 5.4 5.4	32.6 5.1 5.4	42.2 6.0 8.6	37.5 5.4 8.3	40.6 7.9 9.0	45 46 47	
16.0 (*) (*) (*) (*) 12.3	14.5 (*) (*) (*) (*) 11.7	109.2 5.0 5.4 5.3 7.3 69.8	103.1 4.5 5.4 6.8 6.8 65.5	(*) (*) (*) (*) (*)	27.8 5.0 5.4 6.8 21.3	27.9 5.0 5.4 6.8 21.4	(*) (*) (*) (*) (*)	84.7 (*) (*) (*) (*)	82.1 (*) (*) (*) (*)	230.3 9.2 12.7 13.6 121.4	227.5 9.2 16.5 16.8 118.9	(*) (*) (*) (*) (*)	48 49 50 51 52		
2.0	2.0	2.0	7.0	6.7	6.7	1.6	1.6	1.6	5.5	5.2	5.2	13.6	14.7	13.5	53

ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS

**C-1. Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls by industry division, 1961 to date**

Year and month	Average												
	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Hourly earnings excl. overtime
	Total private ¹			Mining			Construction			Manufacturing			
1961.....	\$82.60	38.6	\$2.14	\$106.92	40.5	\$2.64	\$118.08	36.9	\$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	3.70	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	36.6	6.81	176.80	40.0	4.42	4.25
1975.....	163.53	36.1	4.53	249.31	41.9	5.95	266.08	36.4	7.31	199.79	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	8.10	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
1981:													
October...	261.18	35.2	7.42	456.13	44.5	10.25	419.62	37.6	11.16	323.95	39.7	8.16	7.89
November...	262.20	35.1	7.47	461.32	44.4	10.39	414.78	37.1	11.13	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
1982:													
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	7.63	454.12	42.6	10.66	429.75	37.5	11.46	329.55	39.0	8.45	8.22
June....	267.40	35.0	7.64	463.10	42.8	10.82	427.88	37.5	11.41	334.05	39.3	8.50	8.25
July....	269.98	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
Septemberp	270.05	34.8	7.76	461.20	41.7	11.06	431.73	36.9	11.70	334.15	38.9	8.59	8.33
Octoberp..	270.74	34.8	7.78	459.64	41.9	10.97	436.60	37.0	11.80	332.13	38.8	8.56	8.32
	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	74.65	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	96.65	34.4	2.81	
1971.....	168.82	40.1	4.21	101.09	35.1	2.88	117.85	36.6	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	36.6	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	126.00	33.6	3.75	
1975.....	233.44	39.7	5.88	125.45	33.9	3.73	148.19	36.5	4.05	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	36.4	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	
1981:													
October...	388.65	39.1	9.94	192.32	32.0	6.01	232.77	36.2	6.43	213.85	32.5	6.58	
November...	393.96	39.2	10.05	192.68	31.9	6.04	236.02	36.2	6.52	216.78	32.5	6.67	
December...	395.36	39.3	10.06	194.45	32.3	6.02	234.21	36.2	6.47	217.12	32.6	6.66	
1982:													
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	197.78	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	
Septemberp	406.12	38.9	10.44	200.95	32.1	6.26	248.40	36.0	6.90	228.57	32.7	6.99	
Octoberp..	406.62	38.8	10.48	201.27	32.1	6.27	250.17	36.1	6.93	229.18	32.6	7.03	

¹ 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 workers¹ on private nonagricultural payrolls
by industry**

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
-	TOTAL PRIVATE	\$259.74	\$261.18	\$271.04	\$270.05	\$270.74	\$7.40	\$7.42	\$7.70	\$7.76	\$7.78
-	MINING	450.85	456.13	463.43	461.20	459.64	10.27	10.25	10.93	11.06	10.97
10	METAL MINING	488.84	474.74	451.04	449.76	-	12.10	12.08	12.29	12.39	-
101	Iron ores	546.94	470.87	441.61	513.38	-	12.93	12.59	12.37	13.13	-
102	Copper ores	490.86	503.89	472.12	479.33	-	12.12	12.26	12.76	12.92	-
11, 12	COAL MINING	519.94	520.88	505.29	502.43	-	12.35	12.17	12.89	13.05	-
12	BITUMINOUS COAL AND LIGNITE MINING	521.62	522.16	506.86	504.35	-	12.39	12.20	12.93	13.10	-
13	OIL AND GAS EXTRACTION	432.21	443.55	460.34	459.22	-	9.52	9.58	10.51	10.63	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	464.70	452.77	492.05	517.41	-	10.96	10.91	12.06	12.29	-
138	Oil and gas field services	421.79	440.72	448.75	436.13	-	9.11	9.22	9.95	9.98	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	364.22	370.20	392.89	395.95	-	8.49	8.53	8.97	9.04	-
142	Crushed and broken stone	351.60	355.88	386.71	387.18	-	8.12	8.20	8.69	8.74	-
-	CONSTRUCTION	396.31	419.62	436.16	431.73	436.60	11.07	11.16	11.60	11.70	11.80
16	GENERAL BUILDING CONTRACTORS	353.50	369.38	387.82	385.14	-	10.10	10.12	10.51	10.61	-
152	Residential building construction	319.33	334.65	354.65	354.04	-	9.31	9.27	9.69	9.78	-
153	Operative builders	305.59	303.81	314.00	308.95	-	8.56	8.51	8.22	8.35	-
154	Nonresidential building construction	387.66	405.90	424.42	420.42	-	10.92	11.00	11.44	11.55	-
16	HEAVY CONSTRUCTION CONTRACTORS	412.63	439.27	472.89	457.08	-	10.69	10.74	11.45	11.59	-
161	Highway and street construction	389.83	408.63	442.85	430.56	-	9.97	10.04	10.42	10.40	-
162	Heavy construction, except highway	421.30	452.92	484.74	481.98	-	11.00	11.02	11.91	12.11	-
17	SPECIAL TRADE CONTRACTORS	410.55	434.08	441.77	438.19	-	11.73	11.86	12.17	12.24	-
171	Plumbing, heating, air conditioning	421.37	443.87	460.54	456.40	-	11.77	11.90	12.38	12.47	-
172	Painting, paper hanging, decorating	374.45	378.77	382.20	378.47	-	10.76	10.73	10.92	10.97	-
173	Electrical work	474.35	506.72	524.54	508.64	-	13.25	13.37	13.66	13.71	-
174	Masonry, stonework, and plastering	373.04	390.72	413.12	412.46	-	11.27	11.26	11.94	11.99	-
175	Carpentering and flooring	365.74	373.47	384.07	381.70	-	10.54	10.58	11.23	11.36	-
176	Roofing and sheet metal work	343.99	354.65	360.93	362.14	-	10.33	10.37	10.71	10.81	-
-	MANUFACTURING	322.32	323.95	331.89	334.15	332.13	8.16	8.16	8.51	8.59	8.56
24, 25, 32-39	DURABLE GOODS	346.26	350.07	356.33	357.24	356.98	8.70	8.73	9.09	9.16	9.13
20-23, 26-31	NONDURABLE GOODS	287.78	286.60	299.54	303.41	301.85	7.36	7.33	7.74	7.84	7.82
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	271.36	271.22	295.27	295.68	289.55	7.16	7.10	7.61	7.66	7.56
241	Logging camps and logging contractors	352.08	367.61	403.37	391.51	-	9.49	9.45	10.29	10.33	-
242	Sawmills and planing mills	282.94	278.31	306.93	305.36	-	7.33	7.21	7.81	7.87	-
2421	Sawmills and planing mills, general	297.99	291.83	323.90	322.09	-	7.72	7.58	8.20	8.28	-
2426	Hardwood dimension and flooring	196.86	200.46	205.29	206.66	-	5.10	5.14	5.36	5.34	-
243	Millwork, plywood, and structural members	260.77	260.63	286.41	292.50	-	7.01	6.95	7.42	7.50	-
2431	Millwork	271.93	271.74	290.66	297.55	-	7.10	7.17	7.53	7.61	-
2434	Wood kitchen cabinets	229.60	230.11	247.38	252.30	-	6.36	6.27	6.65	6.71	-
2435	Hardwood veneer and plywood	216.22	218.50	220.22	225.41	-	5.53	5.49	5.78	5.87	-
2436	Softwood veneer and plywood	306.21	303.36	365.42	373.41	-	8.65	8.45	9.09	9.22	-
244	Wood containers	204.37	208.67	212.01	209.97	-	5.35	5.42	5.55	5.54	-
245	Wood buildings and mobile homes	236.09	230.40	245.68	248.20	-	6.54	6.49	6.64	6.69	-
2451	Mobile homes	233.35	226.40	242.14	245.31	-	6.50	6.45	6.58	6.63	-
249	Miscellaneous wood products	240.19	238.79	245.70	247.79	-	6.05	6.03	6.30	6.37	-
25	FURNITURE AND FIXTURES	226.58	233.92	243.46	241.92	245.89	6.01	6.06	6.39	6.40	6.42
251	Household furniture	207.02	213.56	219.54	218.89	-	5.58	5.62	5.87	5.90	-
2511	Wood household furniture	191.58	200.85	198.32	195.74	-	5.15	5.19	5.36	5.39	-
2512	Upholstered household furniture	217.49	223.43	230.21	230.95	-	5.91	5.99	6.29	6.31	-
2514	Metal household furniture	222.53	231.21	249.88	249.71	-	5.95	5.99	6.31	6.29	-
2515	Mattresses and bedsprings	229.32	219.75	250.75	250.21	-	6.30	6.19	6.53	6.55	-
252	Office furniture	251.94	262.35	264.27	259.24	-	6.46	6.51	6.90	6.84	-
253	Public building and related furniture	264.01	271.26	283.81	279.40	-	6.65	6.85	7.06	7.02	-
254	Partitions and fixtures	272.70	279.69	303.80	309.68	-	7.12	7.19	7.75	7.86	-
259	Miscellaneous furniture and fixtures	268.52	274.51	285.93	278.24	-	6.85	6.88	7.06	7.08	-

See footnotes at end of table.

ESTABLISHMENT DATA
HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
—	TOTAL PRIVATE	35.1	35.2	35.2	34.8	34.8	—	—	—	—	—
—	MINING	43.9	44.5	42.4	41.7	41.9	—	—	—	—	—
10	METAL MINING	40.4	39.3	36.7	36.3	—	—	—	—	—	—
101	Iron ores	42.3	37.4	35.7	39.1	—	—	—	—	—	—
102	Copper ores	40.5	41.1	37.0	37.1	—	—	—	—	—	—
11, 12	COAL MINING	42.1	42.8	39.2	38.5	—	—	—	—	—	—
12	BITUMINOUS COAL AND LIGNITE MINING	42.1	42.8	39.2	38.5	—	—	—	—	—	—
13	OIL AND GAS EXTRACTION	45.4	46.3	43.8	43.2	—	—	—	—	—	—
131, 2	Crude petroleum, natural gas, and natural gas liquids	42.4	41.5	40.8	42.1	—	—	—	—	—	—
138	Oil and gas field services	46.3	47.8	45.1	43.7	—	—	—	—	—	—
14	NONMETALLIC MINERALS, EXCEPT FUELS	42.9	43.4	43.8	43.8	—	—	—	—	—	—
142	Crushed and broken stone	43.3	43.4	44.5	44.3	—	—	—	—	—	—
—	CONSTRUCTION	35.8	37.6	37.6	36.9	37.0	—	—	—	—	—
15	GENERAL BUILDING CONTRACTORS	35.0	36.5	36.9	36.3	—	—	—	—	—	—
152	Residential building construction	34.3	36.1	36.6	36.2	—	—	—	—	—	—
153	Operative builders	35.7	35.7	38.2	37.0	—	—	—	—	—	—
154	Nonresidential building construction	35.5	36.9	37.1	36.4	—	—	—	—	—	—
16	HEAVY CONSTRUCTION CONTRACTORS	38.6	40.9	41.3	40.3	—	—	—	—	—	—
161	Highway and street construction	39.1	40.7	42.5	41.4	—	—	—	—	—	—
162	Heavy construction, except highway	38.3	41.1	40.7	39.8	—	—	—	—	—	—
17	SPECIAL TRADE CONTRACTORS	35.0	36.6	36.3	35.8	—	—	—	—	—	—
171	Plumbing, heating, air conditioning	35.8	37.3	37.2	36.6	—	—	—	—	—	—
172	Painting, paper hanging, decorating	34.8	35.3	35.0	34.5	—	—	—	—	—	—
173	Electrical work	35.8	37.9	38.4	37.1	—	—	—	—	—	—
174	Masonry, stonework, and plastering	33.1	34.7	34.6	34.4	—	—	—	—	—	—
175	Carpentering and flooring	34.7	35.3	34.2	33.6	—	—	—	—	—	—
176	Roofing and sheet metal work	33.3	34.2	33.7	33.5	—	—	—	—	—	—
—	MANUFACTURING	39.5	39.7	39.0	38.9	38.8	2.9	2.8	2.4	2.5	2.3
24, 25, 32-39	DURABLE GOODS	39.8	40.1	39.2	39.0	39.1	2.8	2.7	2.2	2.1	2.0
20-23, 26-31	NONDURABLE GOODS	39.1	39.1	38.7	38.7	38.6	3.1	2.9	2.7	2.9	2.7
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	37.9	38.2	38.8	38.6	38.3	2.3	2.4	2.6	2.5	—
241	Logging camps and logging contractors	37.1	38.9	39.2	37.9	—	3.3	3.9	3.5	3.1	—
242	Sawmills and planing mills	38.6	38.6	39.3	38.8	—	2.8	2.7	3.1	3.2	—
2421	Sawmills and planing mills, general	38.6	38.6	39.5	38.9	—	2.9	2.9	3.3	3.4	—
2426	Hardwood dimension and flooring	38.6	39.0	38.3	38.7	—	2.2	2.2	2.0	2.2	—
243	Millwork, plywood, and structural members	37.2	37.5	38.6	39.0	—	1.7	1.6	2.2	2.2	—
2431	Millwork	38.3	37.9	38.6	39.1	—	1.2	1.2	1.6	1.5	—
2434	Wood kitchen cabinets	36.1	36.7	37.2	37.6	—	1.2	1.1	1.6	1.3	—
2435	Hardwood veneer and plywood	39.1	39.8	38.1	38.4	—	2.6	2.6	2.2	2.2	—
2436	Softwood veneer and plywood	35.4	35.9	40.2	40.5	—	2.2	2.0	3.3	3.9	—
244	Wood containers	38.2	38.5	38.2	37.9	—	2.0	2.2	2.0	2.1	—
245	Wood buildings and mobile homes	36.1	35.5	37.0	37.1	—	1.1	1.0	1.4	1.4	—
2451	Mobile homes	35.9	35.1	36.8	37.0	—	.8	.8	1.4	1.4	—
248	Miscellaneous wood products	39.7	39.6	39.0	38.9	—	2.7	2.5	2.1	2.0	—
25	FURNITURE AND FIXTURES	37.7	38.6	38.1	37.8	38.3	1.8	2.0	1.8	1.7	—
251	Household furniture	37.1	38.0	37.4	37.1	—	1.4	1.6	1.4	1.4	—
2511	Wood household furniture	37.2	38.7	37.0	36.5	—	1.7	2.0	1.5	1.5	—
2512	Upholstered household furniture	36.8	37.3	36.6	36.6	—	.9	1.2	.8	.9	—
2514	Metal household furniture	37.4	38.6	39.6	39.7	—	1.8	1.8	2.1	2.2	—
2515	Mattresses and bedsprings	36.4	35.5	38.4	38.2	—	1.7	1.3	1.9	1.6	—
252	Office furniture	39.0	40.3	38.3	37.9	—	2.6	2.9	2.2	1.7	—
253	Public building and related furniture	39.7	39.6	40.2	39.8	—	2.1	2.4	3.0	2.8	—
254	Partitions and fixtures	38.3	38.9	39.2	39.4	—	2.4	2.7	2.7	2.5	—
259	Miscellaneous furniture and fixtures	39.2	39.9	40.5	39.3	—	2.3	1.7	1.6	1.9	—

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
32	STONE, CLAY, AND GLASS PRODUCTS	\$346.32	\$344.25	\$362.56	\$354.00	\$354.18	\$8.53	\$8.50	\$8.93	\$9.01	\$8.97
321	Flat glass	484.18	463.68	491.73	516.43	-	11.26	11.04	11.68	12.18	-
322	Glass and glassware, pressed or blown	365.31	365.65	381.50	382.80	-	9.02	8.94	9.49	9.57	-
3221	Glass containers	381.52	388.22	406.14	398.60	-	9.61	9.40	9.93	9.99	-
3229	Pressed and blown glass, nec	342.38	335.72	343.69	358.49	-	8.25	8.31	8.79	8.94	-
323	Products of purchased glass	300.13	310.13	324.39	317.58	-	7.56	7.62	8.13	8.04	-
324	Cement, hydraulic	523.38	506.62	517.90	528.76	-	12.20	12.12	12.54	12.68	-
325	Structural clay products	278.88	279.39	282.89	283.69	-	6.92	6.95	7.09	7.11	-
326	Pottery and related products	263.16	264.52	288.28	286.06	-	6.80	6.80	7.43	7.43	-
327	Concrete, gypsum, and plaster products	347.73	345.20	369.67	367.79	-	8.44	8.44	8.76	8.82	-
3271	Concrete block and brick	315.46	326.69	342.86	336.77	-	7.44	7.51	7.81	7.85	-
3272	Concrete products, nec	309.34	313.50	328.32	330.64	-	7.49	7.50	7.78	7.91	-
3273	Ready-mixed concrete	374.80	372.24	401.99	397.14	-	9.37	9.40	9.71	9.71	-
328	Misc. nonmetallic mineral products	337.28	335.60	342.61	353.23	-	8.39	8.39	8.74	8.92	-
3281	Abrasive products	322.79	325.60	316.35	318.05	-	8.09	8.14	8.62	8.69	-
3292	Asbestos products	326.24	342.26	365.49	358.83	-	8.43	8.43	8.98	8.86	-
33	PRIMARY METAL INDUSTRIES	457.78	435.51	440.07	440.06	427.86	11.22	10.97	11.49	11.55	11.44
331	Blast furnace and basic steel products	545.73	499.48	509.52	509.89	-	13.15	12.84	13.66	13.67	-
3312	Blast furnaces and steel mills	570.75	516.85	530.21	532.01	-	13.72	13.39	14.33	14.34	-
3317	Steel pipe and tubes	417.56	418.82	399.76	394.79	-	10.31	10.24	10.52	10.67	-
332	Iron and steel foundries	347.54	354.49	360.24	355.62	-	9.17	9.16	9.71	9.69	-
3321	Gray iron foundries	349.68	357.50	371.86	366.67	-	9.30	9.31	9.89	9.91	-
3322	Malleable iron foundries	368.76	364.93	373.69	367.67	-	9.86	9.81	10.21	10.27	-
3325	Steel foundries, nec	340.17	347.11	334.87	331.92	-	8.79	8.81	9.38	9.22	-
333	Primary nonferrous metals	553.72	511.28	530.47	542.57	-	12.70	12.44	12.97	13.43	-
3334	Primary aluminum	603.37	544.07	565.40	582.62	-	13.62	13.11	13.69	14.28	-
335	Nonferrous rolling and drawing	411.58	406.13	411.83	414.32	-	9.87	9.81	10.27	10.41	-
3351	Copper rolling and drawing	352.73	351.88	377.15	351.90	-	8.52	8.52	9.11	9.00	-
3353	Aluminum sheet, plate, and foil	540.58	527.07	545.94	557.51	-	12.81	12.67	13.48	14.15	-
3357	Nonferrous wire drawing and insulating	382.55	376.41	372.33	381.68	-	9.13	9.07	9.45	9.59	-
336	Nonferrous foundries	316.37	326.42	334.77	328.04	-	8.05	8.12	8.54	8.61	-
3361	Aluminum foundries	321.79	335.30	344.75	337.69	-	8.23	8.32	8.75	8.84	-
34	FABRICATED METAL PRODUCTS	330.70	337.28	346.04	346.21	346.32	8.33	8.39	8.85	8.90	8.88
341	Metal cans and shipping containers	479.62	478.66	515.05	509.50	-	11.18	11.08	11.95	11.96	-
3411	Metal cans	500.39	499.10	539.33	532.29	-	11.61	11.50	12.37	12.35	-
342	Cutlery, hand tools, and hardware	297.98	313.63	322.10	318.27	-	7.76	7.94	8.41	8.31	-
3423, 5	Hand and edge tools, and hand saws and blades	293.57	296.29	295.16	298.24	-	7.47	7.52	7.85	7.89	-
3429	Hardware, nec	304.99	327.81	341.61	332.06	-	8.09	8.32	8.85	8.67	-
343	Plumbing and heating, except electric	281.51	295.11	305.73	336.43	-	7.35	7.49	7.90	7.98	-
3432	Plumbing fittings and brass goods	267.58	280.53	286.89	286.88	-	6.95	7.12	7.53	7.65	-
3433	Heating equipment, except electric	282.94	293.53	313.21	314.73	-	7.33	7.45	7.99	8.07	-
344	Fabricated structural metal products	327.22	333.73	341.12	343.00	-	8.16	8.22	8.68	8.75	-
3441	Fabricated structural metal	350.58	359.87	364.11	364.40	-	8.53	8.63	9.08	9.11	-
3442	Metal doors, sash, and trim	257.28	257.01	264.99	260.35	-	6.58	6.59	6.76	6.71	-
3443	Fabricated plate work (boiler shops)	362.88	370.72	381.60	382.53	-	8.96	9.02	9.71	9.91	-
3444	Sheet metal work	325.48	330.37	343.55	347.14	-	8.24	8.28	8.97	8.97	-
3446	Architectural metal work	299.34	313.80	342.95	353.83	-	7.54	7.71	8.51	8.63	-
345	Screw machine products, bolts, etc.	312.83	318.39	313.78	314.88	-	7.86	7.94	8.15	8.20	-
3451	Screw machine products	287.17	293.27	289.92	291.08	-	7.27	7.35	7.55	7.62	-
3452	Bolts, nuts, rivets, and washers	337.24	341.74	336.59	338.14	-	8.41	8.48	8.72	8.76	-
346	Metal forgings and stampings	375.09	380.33	391.04	385.15	-	9.52	9.58	9.95	10.03	-
3462	Iron and steel forgings	390.87	402.51	421.13	407.69	-	10.10	10.19	10.91	10.93	-
3465	Automotive stampings	456.40	459.20	464.44	455.90	-	11.41	11.48	11.64	11.75	-
3469	Metal stampings, nec	289.73	294.62	309.67	305.69	-	7.41	7.44	7.92	7.94	-
347	Metal services, nec	261.10	263.21	273.78	273.93	-	6.61	6.63	7.02	7.06	-
3471	Plating and polishing	256.62	263.61	268.41	268.19	-	6.58	6.64	6.90	6.93	-
3479	Metal coating and allied services	271.06	262.68	285.04	287.78	-	6.66	6.60	7.29	7.36	-
348	Ordnance and accessories, nec	334.27	343.20	361.30	361.30	-	8.42	8.58	9.17	9.17	-
3483	Ammunition, exc. for small arms, nec	294.90	305.37	330.91	337.39	-	7.64	7.81	8.42	8.52	-
349	Misc. fabricated metal products	308.90	316.01	317.44	320.50	-	7.88	7.94	8.31	8.39	-
3494	Valves and pipe fittings	332.69	338.89	335.66	338.20	-	8.38	8.43	8.88	8.90	-
3496	Misc. fabricated wire products	264.52	267.44	282.36	279.41	-	6.80	6.84	7.24	7.22	-
35	MACHINERY, EXCEPT ELECTRICAL	361.98	367.93	364.80	356.21	364.25	8.96	9.04	9.33	9.39	9.34
351	Engines and turbines	452.48	445.04	450.43	453.19	-	11.20	11.21	11.52	11.65	-
3511	Turbines and turbine generator sets	416.12	420.21	445.20	443.45	-	10.30	10.35	11.13	11.17	-
3519	Internal combustion engines, nec	466.22	453.92	453.95	458.54	-	11.54	11.55	11.73	11.91	-
352	Farm and garden machinery	391.45	394.22	391.13	413.17	-	9.91	9.93	10.32	10.54	-
3623	Farm machinery and equipment	408.75	411.77	406.50	432.06	-	10.27	10.32	10.84	11.05	-
353	Construction and related machinery	402.62	408.29	395.78	397.82	-	9.82	9.91	10.28	10.36	-

See footnotes at end of table.

ESTABLISHMENT DATA
HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
32	STONE, CLAY, AND GLASS PRODUCTS	40.6	40.5	40.6	40.4	40.5	4.0	3.8	3.8	3.8	-
321	Flat glass	43.0	42.0	42.1	42.4	-	4.6	3.4	3.9	4.4	-
322	Glass and glassware, pressed or blown	40.5	40.9	40.2	40.0	-	5.0	4.3	4.1	4.5	-
3221	Glass containers	39.7	41.3	40.9	39.9	-	5.5	5.1	4.8	5.2	-
3229	Pressed and blown glass, nec	41.5	40.4	39.1	40.1	-	4.3	3.3	3.0	3.5	-
323	Products of purchased glass	39.7	40.7	39.9	39.5	-	3.1	3.1	3.0	2.7	-
324	Cement, hydraulic	42.9	41.8	41.3	41.7	-	3.5	3.1	2.7	2.4	-
326	Structural clay products	40.3	40.2	39.9	39.9	-	3.3	3.0	2.6	2.5	-
326	Pottery and related products	38.7	38.9	38.8	38.5	-	2.0	2.2	1.6	1.6	-
327	Concrete, gypsum, and plaster products	41.2	40.9	42.2	41.7	-	4.7	4.8	5.5	5.1	-
3271	Concrete block and brick	42.4	43.5	43.9	42.9	-	4.2	4.7	5.7	5.0	-
3272	Concrete products, nec	41.3	41.8	42.2	41.8	-	4.2	4.7	4.9	4.7	-
3273	Ready-mixed concrete	40.0	39.6	41.4	40.9	-	4.7	4.9	5.9	5.2	-
329	Misc. nonmetallic mineral products	40.2	40.0	39.2	39.6	-	3.2	3.0	2.5	2.7	-
3291	Abrasive products	39.9	40.0	36.7	36.6	-	2.7	2.6	1.2	1.3	-
3292	Asbestos products	38.7	40.6	40.7	40.5	-	2.3	2.6	2.7	2.2	-
33	PRIMARY METAL INDUSTRIES	40.8	39.7	38.3	38.1	37.4	3.3	2.6	2.0	2.1	-
331	Blast furnace and basic steel products	41.5	38.9	37.3	37.3	-	3.3	2.2	1.5	1.4	-
3312	Blast furnaces and steel mills	41.6	38.6	37.0	37.1	-	3.3	2.1	1.4	1.3	-
3317	Steel pipe and tubes	40.5	40.9	38.0	37.0	-	2.9	2.8	2.0	2.0	-
332	Iron and steel foundries	37.9	38.7	37.1	36.7	-	2.6	2.4	1.9	1.6	-
3321	Gray iron foundries	37.6	38.4	37.6	37.0	-	2.6	2.4	2.3	1.9	-
3322	Malleable iron foundries	37.4	37.2	36.6	35.8	-	2.8	2.0	1.3	1.1	-
3325	Steel foundries, nec	38.7	39.4	35.7	36.0	-	2.3	2.7	1.1	1.0	-
333	Primary nonferrous metals	43.6	41.1	40.9	40.4	-	4.6	3.1	2.6	3.3	-
3334	Primary aluminum	44.3	41.5	41.3	40.8	-	5.9	3.3	2.9	3.9	-
335	Nonferrous rolling and drawing	41.7	41.4	40.1	39.8	-	4.4	3.8	3.1	3.5	-
3351	Copper rolling and drawing	41.4	41.3	41.4	39.1	-	4.6	4.1	3.5	2.4	-
3353	Aluminum sheet, plate and foil	42.2	41.6	40.5	39.4	-	5.7	4.2	4.4	6.6	-
3357	Nonferrous wire drawing and insulating	41.9	41.5	39.4	39.8	-	4.5	4.1	2.6	2.6	-
336	Nonferrous foundries	39.3	40.2	39.2	38.1	-	2.2	2.5	2.0	1.8	-
3361	Aluminum foundries	39.1	40.3	39.4	38.2	-	2.4	2.6	2.0	1.7	-
34	FABRICATED METAL PRODUCTS	39.7	40.2	39.1	38.9	39.3	2.7	2.7	2.0	2.0	-
341	Metal cans and shipping containers	42.9	43.2	43.1	42.6	-	4.9	4.1	4.9	4.3	-
3411	Metal cans	43.1	43.4	43.6	43.1	-	5.0	4.1	5.2	4.5	-
342	Cutlery, hand tools, and hardware	38.4	39.5	38.3	38.3	-	1.8	2.1	1.3	1.4	-
3423, 5	Hand and edge tools, and hand saws and blades	39.3	39.4	37.6	37.8	-	1.9	1.9	.9	1.3	-
3429	Hardware, nec	37.7	39.4	38.6	38.3	-	1.7	2.1	1.3	1.4	-
343	Plumbing and heating, except electric	38.3	39.4	38.7	38.4	-	1.7	1.7	1.1	1.4	-
3432	Plumbing fittings and brass goods	38.5	39.4	38.1	37.5	-	1.7	1.4	.8	1.2	-
3433	Heating equipment, except electric	38.6	39.4	39.2	39.0	-	1.6	1.8	1.4	1.6	-
344	Fabricated structural metal products	40.1	40.6	39.3	39.2	-	2.8	2.9	2.2	2.2	-
3441	Fabricated structural metal	41.1	41.7	40.1	40.0	-	3.0	3.2	2.8	2.7	-
3442	Metal doors, sash, and trim	39.1	39.0	39.2	38.8	-	2.3	2.2	2.2	2.0	-
3443	Fabricated plate work (boiler shops)	40.5	41.1	39.3	38.6	-	3.4	3.3	2.1	1.8	-
3444	Sheet metal work	39.5	39.9	38.3	38.7	-	2.4	2.7	1.7	2.1	-
3446	Architectural metal work	39.7	40.7	40.3	41.0	-	1.7	2.1	2.6	2.2	-
345	Screw machine products, bolts, etc.	39.8	40.1	38.5	38.4	-	2.5	2.8	1.6	1.5	-
3451	Screw machine products	39.5	39.9	38.4	38.2	-	2.3	2.8	1.4	1.4	-
3452	Bolts, nuts, rivets, and washers	40.1	40.3	38.6	38.6	-	2.8	2.8	1.7	1.6	-
346	Metal forgings and stampings	39.4	39.7	39.3	38.4	-	2.8	2.6	2.0	1.9	-
3462	Iron and steel forgings	38.7	39.5	38.6	37.3	-	2.5	2.5	1.8	1.6	-
3465	Automotive stampings	40.0	40.0	39.9	38.8	-	3.2	3.0	2.3	2.0	-
3469	Metal stampings, nec	39.1	39.6	39.1	38.5	-	2.3	2.3	1.7	1.8	-
347	Metal services, nec	39.5	39.7	39.0	38.8	-	2.6	2.6	2.3	2.4	-
3471	Plating and polishing	39.0	39.7	38.9	38.7	-	2.7	2.9	2.2	2.2	-
3479	Metal coating and allied services	40.7	39.8	39.1	39.1	-	2.2	2.0	2.6	2.8	-
348	Ordnance and accessories, nec	39.7	40.0	39.4	39.4	-	2.7	2.7	2.1	2.1	-
3483	Ammunition, exc. for small arms, nec	38.6	39.1	39.3	39.6	-	1.9	2.5	1.8	1.9	-
349	Misc. fabricated metal products	39.2	39.8	38.2	38.2	-	2.6	2.7	1.6	1.7	-
3494	Valves and pipe fittings	39.7	40.2	37.8	38.0	-	2.8	3.0	1.4	1.3	-
3498	Misc. fabricated wire products	38.9	39.1	39.0	38.7	-	2.4	2.2	1.6	1.6	-
35	MACHINERY, EXCEPT ELECTRICAL	40.4	40.7	39.1	39.0	39.0	3.1	3.1	1.9	1.9	-
351	Engines and turbines	40.4	39.7	39.1	38.9	-	2.7	2.5	1.6	1.4	-
3511	Turbines and turbine generator sets	40.4	40.6	40.0	39.7	-	3.4	3.8	3.0	3.0	-
3519	Internal combustion engines, nec	40.4	39.3	38.7	38.5	-	2.5	2.0	.8	.6	-
352	Farm and garden machinery	39.5	39.7	37.9	39.2	-	3.0	2.7	1.6	2.3	-
3523	Farm machinery and equipment	39.8	39.9	37.5	39.1	-	3.4	3.0	1.8	2.5	-
363	Construction and related machinery	41.0	41.2	38.5	38.4	-	3.4	3.4	1.6	1.5	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery	\$435.00	\$440.75	\$440.83	\$438.12	-	\$11.01	\$11.13	\$11.48	\$11.56	-
3532	Mining machinery	385.53	387.00	386.14	402.53	-	9.81	10.00	10.38	10.51	-
3533	Oil field machinery	421.12	427.50	392.96	400.30	-	9.40	9.50	10.05	10.16	-
3535	Conveyors and conveying equipment	334.85	335.87	357.87	335.92	-	8.72	8.59	9.06	8.84	-
3537	Industrial trucks and tractors	314.42	330.80	321.71	328.62	-	8.34	8.57	8.79	8.93	-
354	Metalworking machinery	367.52	374.42	372.27	371.88	-	9.03	9.11	9.57	9.56	-
3541	Machine tools, metal cutting types	382.44	385.22	371.95	370.06	-	9.26	9.35	9.84	9.79	-
3542	Machine tools, metal forming types	369.10	371.33	369.89	365.27	-	9.44	9.67	9.97	9.98	-
3544	Special dies, tools, jigs, and fixtures	393.30	401.52	404.21	405.41	-	9.50	9.56	10.08	10.11	-
3545	Machine tool accessories	329.87	338.52	326.88	326.24	-	8.33	8.40	8.74	8.77	-
3546	Power driven hand tools	291.00	291.91	301.75	297.35	-	7.33	7.39	7.62	7.49	-
355	Special industry machinery	338.20	341.01	352.02	354.76	-	8.33	8.42	8.98	9.05	-
3551	Food products machinery	345.20	344.66	368.02	370.80	-	8.63	8.77	9.27	9.34	-
3552	Textile machinery	265.86	271.04	268.80	276.05	-	6.68	6.81	7.13	7.17	-
3556	Printing trades machinery	363.72	359.92	364.65	368.55	-	8.66	8.59	9.35	9.45	-
356	General industrial machinery	354.40	362.30	357.44	356.13	-	8.86	8.99	9.26	9.25	-
3561	Pumps and pumping equipment	353.58	366.51	361.00	363.28	-	9.02	9.14	9.50	9.56	-
3562	Ball and roller bearings	357.57	366.03	356.61	357.86	-	8.70	8.82	8.96	8.88	-
3563	Air and gas compressors	412.59	404.46	400.97	395.64	-	9.64	9.63	10.10	10.33	-
3564	Blowers and fans	318.30	333.23	342.14	342.39	-	8.12	8.31	8.64	8.69	-
3566	Speed changers, drives, and gears	388.87	391.15	349.15	339.71	-	9.82	9.73	9.78	9.73	-
3568	Power transmission equipment, nec	332.93	333.88	325.25	336.82	-	8.18	8.41	8.96	9.03	-
357	Office and computing machines	312.42	316.71	325.19	329.26	-	7.62	7.65	7.99	8.07	-
3573	Electronic computing equipment	314.71	319.01	323.93	328.41	-	7.62	7.65	7.92	8.01	-
358	Refrigeration and service machinery	317.54	334.51	339.86	336.01	-	8.08	8.28	8.67	8.66	-
3585	Refrigeration and heating equipment	327.49	330.22	350.95	347.65	-	8.27	8.36	8.93	8.96	-
359	Misc. machinery, except electrical	343.94	349.80	349.59	351.26	-	8.62	8.68	9.01	9.10	-
3592	Carburetors, pistons, rings, valves	406.30	403.52	403.37	398.56	-	10.26	10.19	10.45	10.60	-
3599	Machinery, except electrical, nec	333.56	341.38	341.54	343.27	-	8.36	8.45	8.78	8.87	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT										
361	Electric distributing equipment	307.68	311.22	322.18	322.82	\$326.04	7.75	7.80	8.24	8.32	\$8.36
3612	Transformers	298.31	306.48	316.47	321.98	-	7.61	7.72	8.22	8.32	-
3613	Switchgear and switchboard apparatus	298.89	303.06	318.77	327.85	-	7.38	7.52	8.07	8.30	-
362	Electrical industrial apparatus	297.94	310.08	313.96	317.75	-	7.82	7.89	8.35	8.34	-
3621	Motors and generators	316.01	321.20	319.28	311.17	-	7.92	7.99	8.38	8.41	-
3622	Industrial controls	307.31	315.97	327.27	312.29	-	7.78	7.86	8.37	8.35	-
363	Household appliances	313.62	319.20	305.49	307.80	-	7.96	8.02	8.19	8.23	-
3632	Household refrigerators and freezers	299.54	296.44	308.39	313.86	-	7.72	7.66	8.01	8.11	-
3633	Household laundry equipment	354.88	343.80	371.20	375.25	-	9.03	9.00	9.28	9.50	-
3634	Electric housewares and fans	338.93	346.14	366.82	372.62	-	9.21	9.28	9.73	9.78	-
364	Electric lighting and wiring equipment	233.92	236.34	244.22	247.81	-	6.06	6.06	6.36	6.42	-
3641	Electric lamps	281.46	287.23	306.18	303.78	-	7.18	7.29	7.81	7.87	-
3643	Current-carrying wiring devices	328.86	336.60	358.18	354.88	-	8.12	8.25	8.91	9.03	-
3644	Noncurrent-carrying wiring devices	269.50	272.65	281.30	274.08	-	6.84	6.92	7.25	7.27	-
3645	Residential lighting fixtures	292.87	294.32	299.00	295.07	-	7.34	7.47	7.91	8.04	-
365	Radio and TV receiving equipment	217.35	218.31	234.14	232.02	-	5.75	5.70	6.05	5.98	-
366	Radio and TV receiving sets	283.86	288.95	300.66	292.61	-	7.15	7.26	7.67	7.68	-
3661	Radio and TV receiving sets	284.20	296.60	306.98	287.49	-	7.25	7.49	7.85	7.77	-
367	Communication equipment	367.74	369.46	387.47	396.00	-	9.08	9.10	9.76	9.90	-
3681	Telephone and telegraph apparatus	402.82	395.91	404.32	411.44	-	9.73	9.68	10.21	10.39	-
3682	Radio and TV communication equipment	346.40	353.50	379.29	387.93	-	8.66	8.75	9.53	9.65	-
367	Electronic components and accessories	265.72	267.58	283.02	283.58	-	6.71	6.74	7.22	7.29	-
3671-3	Electronic tubes	337.68	337.39	358.54	372.25	-	8.40	8.52	9.10	9.26	-
3674	Semiconductors and related devices	308.74	309.91	324.35	322.18	-	7.68	7.69	8.17	8.24	-
3679	Electronic components, nec	243.52	250.97	265.05	255.38	-	6.26	6.29	6.71	6.77	-
3689	Misc. electrical equipment and supplies	347.13	355.72	340.96	334.93	-	8.70	8.74	8.61	8.61	-
3691	Storage batteries	346.33	377.16	377.48	370.75	-	8.79	8.98	9.39	9.58	-
3694	Engine electrical equipment	379.08	382.97	338.72	331.01	-	9.77	9.72	8.73	8.62	-
37	TRANSPORTATION EQUIPMENT										
371	Motor vehicles and equipment	418.55	440.34	447.20	443.98	452.73	10.49	10.74	11.18	11.24	11.29
3711	Motor vehicles and car bodies	437.27	464.94	461.74	451.23	-	11.07	11.34	11.66	11.69	-
3713	Truck and bus bodies	485.55	532.51	504.19	486.02	-	12.45	12.77	13.13	13.03	-
3714	Motor vehicle parts and accessories	417.35	428.74	451.77	439.56	-	10.46	10.56	11.10	11.10	-
3715	Truck trailers	285.39	298.29	308.03	308.03	-	7.53	7.59	7.98	7.98	-
372	Aircraft and parts	427.99	438.70	461.22	464.71	-	10.49	10.70	11.36	11.39	-
3721	Aircraft	446.49	458.97	487.56	487.59	-	10.89	11.14	11.95	11.98	-
3724	Aircraft engines and engine parts	424.66	431.32	454.58	453.85	-	10.59	10.81	11.28	11.29	-
3728	Aircraft equipment, nec	395.65	408.24	418.99	432.43	-	9.58	9.72	10.32	10.42	-
373	Ship and boat building and repairing	363.60	387.20	393.81	391.04	-	9.09	9.33	9.87	9.95	-
3731	Shipbuilding and repairing	381.35	409.78	413.60	-	-	9.51	9.78	10.34	-	-
3732	Boat building and repairing	296.25	304.36	305.73	289.85	-	7.50	7.59	7.74	7.75	-
374	Railroad equipment	427.69	438.20	427.90	436.62	-	11.08	11.15	11.35	11.49	-

See footnotes at end of table.

ESTABLISHMENT DATA
HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery	39.6	39.6	38.4	37.9	-	1.7	1.8	0.9	1.0	-
3532	Mining machinery	39.3	38.7	37.2	38.3	-	1.7	2.0	1.1	.9	-
3533	Oil field machinery	44.8	45.0	39.1	39.4	-	6.5	6.1	2.2	2.0	-
3535	Conveyors and conveying equipment	38.4	39.1	39.5	38.0	-	2.9	2.6	2.4	1.8	-
3537	Industrial trucks and tractors	37.7	38.6	36.6	36.8	-	2.2	2.1	.9	1.3	-
354	Metalworking machinery	40.7	41.1	38.9	38.9	-	3.7	3.9	2.5	2.2	-
3541	Machine tools, metal cutting types	41.3	41.2	37.8	37.8	-	4.1	4.1	1.5	1.3	-
3542	Machine tools, metal forming types	39.1	38.4	37.1	36.6	-	2.6	2.6	1.0	.8	-
3544	Special dies, tools, jigs, and fixtures	41.4	42.0	40.1	40.1	-	4.4	4.7	3.6	3.2	-
3545	Machine tool accessories	39.6	40.3	37.4	37.2	-	2.9	3.2	1.2	1.0	-
3546	Power driven hand tools	39.7	39.5	39.6	39.7	-	2.3	2.2	2.3	2.6	-
355	Special industry machinery	40.6	40.5	39.2	39.2	-	2.8	2.7	1.9	2.1	-
3561	Food products machinery	40.0	39.3	39.7	39.7	-	2.0	2.1	2.0	2.0	-
3562	Textile machinery	39.8	39.8	37.7	38.5	-	1.9	1.7	1.0	1.3	-
3565	Printing trades machinery	42.0	41.9	39.0	39.0	-	3.7	3.4	2.1	2.4	-
356	General industrial machinery	40.0	40.3	38.6	38.5	-	3.0	2.8	1.5	1.6	-
3561	Pumps and pumping equipment	39.2	40.1	38.0	38.0	-	2.6	2.8	1.1	1.4	-
3562	Ball and roller bearings	41.1	41.5	39.8	40.3	-	3.1	3.2	1.9	1.9	-
3563	Air and gas compressors	42.8	42.0	39.7	38.3	-	4.4	3.8	2.4	2.6	-
3564	Blowers and fans	39.2	40.1	39.6	39.4	-	2.9	3.3	1.7	1.7	-
3566	Speed changers, drives, and gears	39.6	40.2	35.7	34.4	-	3.5	2.7	.7	.6	-
3568	Power transmission equipment, nec	40.7	39.7	36.3	37.3	-	2.8	1.8	1.3	1.5	-
367	Office and computing machines	41.0	41.4	40.7	40.8	-	3.0	3.0	2.0	2.2	-
3573	Electronic computing equipment	41.3	41.7	40.9	41.0	-	3.4	3.3	2.2	2.5	-
356	Refrigeration and service machinery	39.3	40.4	39.2	38.8	-	2.0	2.1	1.7	1.5	-
3585	Refrigeration and heating equipment	39.6	39.5	39.3	38.8	-	2.0	2.0	1.7	1.2	-
359	Misc. machinery, except electrical	39.9	40.3	38.8	38.6	-	3.1	3.4	2.1	1.9	-
3592	Carburators, pistons, rings, valves	39.6	39.6	38.6	37.6	-	1.9	1.8	1.4	1.4	-
3599	Machinery, except electrical, nec	39.9	40.4	38.9	38.7	-	3.3	3.7	2.2	2.0	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	39.7	39.9	39.1	38.8	39.0	2.3	2.2	1.8	1.8	-
361	Electric distributing equipment	39.2	39.7	38.5	38.7	-	2.3	2.4	1.7	2.0	-
3612	Transformers	40.5	40.3	39.5	39.5	-	2.6	2.5	2.1	2.7	-
3613	Switchgear and switchboard apparatus	38.1	39.3	37.6	38.1	-	2.1	2.3	1.4	1.4	-
362	Electrical industrial apparatus	39.9	40.2	38.1	37.0	-	2.7	2.4	1.4	1.4	-
3621	Motors and generators	39.5	40.2	39.1	37.4	-	2.4	2.4	1.6	1.4	-
3622	Industrial controls	39.4	39.8	37.3	37.4	-	2.5	2.3	1.2	1.3	-
363	Household appliances	38.8	38.7	38.5	38.7	-	1.9	1.7	1.5	1.5	-
3632	Household refrigerators and freezers	39.3	38.2	40.0	39.5	-	1.5	1.1	1.7	1.2	-
3633	Household laundry equipment	36.8	37.3	37.7	38.1	-	.9	.9	.6	.4	-
3634	Electric housewares and fans	38.6	39.0	38.4	38.6	-	2.2	2.2	1.8	1.9	-
364	Electric lighting and wiring equipment	39.2	39.4	39.2	38.6	-	1.9	2.1	1.7	1.6	-
3641	Electric lamps	40.5	40.8	40.2	39.3	-	1.6	1.9	1.6	1.4	-
3643	Current-carrying wiring devices	39.4	39.4	38.8	37.7	-	2.4	2.6	1.7	1.5	-
3644	Noncurrent-carrying wiring devices	39.9	39.4	37.8	36.7	-	2.2	2.1	1.3	1.2	-
3645	Residential lighting fixtures	37.8	38.3	38.7	38.8	-	1.6	1.5	1.5	1.5	-
365	Radio and TV receiving equipment	39.7	39.8	39.2	38.1	-	1.6	1.5	1.3	1.7	-
3651	Radio and TV receiving sets	39.2	39.6	39.1	37.0	-	1.2	1.6	1.3	1.0	-
366	Communication equipment	40.5	40.6	39.7	40.0	-	2.5	2.5	1.9	2.2	-
3661	Telephone and telegraph apparatus	41.4	40.9	39.6	39.6	-	3.0	2.8	1.8	2.0	-
3662	Radio and TV communication equipment	40.0	40.4	39.8	40.2	-	2.2	2.3	2.0	2.3	-
367	Electronic components and accessories	39.6	39.7	39.2	38.9	-	2.4	2.3	2.0	1.9	-
3671-3	Electronic tubes	40.2	39.6	39.4	40.2	-	2.1	2.0	1.9	1.9	-
3674	Semiconductors and related devices	40.2	40.3	39.7	39.1	-	2.6	2.4	2.4	2.4	-
3679	Electronic components, nec	39.7	39.9	39.5	39.2	-	2.4	2.3	1.9	1.9	-
369	Misc. electrical equipment and supplies	39.9	40.7	39.6	38.9	-	2.1	2.4	2.0	1.7	-
3691	Storage batteries	39.4	42.0	40.2	38.7	-	2.3	3.1	2.6	2.5	-
3694	Engine/electrical equipment	38.8	39.4	38.8	38.4	-	1.6	1.8	1.7	1.5	-
37	TRANSPORTATION EQUIPMENT	39.9	41.0	40.0	39.5	40.1	2.9	3.0	2.8	2.6	-
371	Motor vehicles and equipment	39.5	41.0	39.6	38.6	-	2.5	2.8	2.7	2.2	-
3711	Motor vehicles and car bodies	39.0	41.7	38.4	37.3	-	2.4	3.0	2.8	2.0	-
3713	Truck and bus bodies	39.7	40.4	39.4	40.7	-	2.1	3.0	1.4	1.7	-
3714	Motor vehicle parts and accessories	39.9	40.6	40.7	39.6	-	2.8	2.6	2.9	2.4	-
3715	Truck trailers	37.9	39.3	38.6	38.6	-	1.6	2.2	.7	.9	-
372	Aircraft and parts	40.8	41.0	40.6	40.8	-	3.3	3.4	3.0	3.2	-
3721	Aircraft	41.0	41.2	40.8	40.7	-	2.9	2.9	2.6	2.7	-
3724	Aircraft engines and engine parts	40.1	39.9	40.3	40.2	-	3.4	3.3	3.3	3.7	-
3728	Aircraft equipment, nec	41.3	42.0	40.6	41.5	-	3.9	4.3	3.5	3.7	-
373	Ship and boat building and repairing	40.0	41.5	39.9	39.3	-	3.9	3.4	2.6	2.7	-
3731	Ship building and repairing	40.1	41.9	40.0	-	-	3.9	3.4	2.8	-	-
3732	Boat building and repairing	39.5	40.1	39.5	37.4	-	3.7	3.1	1.6	1.3	-
374	Railroad equipment	38.6	39.3	37.7	38.0	-	2.3	2.6	1.1	1.5	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	\$402.38	\$418.37	\$450.31	\$449.74	-	\$10.11	\$10.33	\$11.01	\$11.05	-
3761	Guided missiles and space vehicles	412.09	430.54	464.09	454.92	-	10.38	10.71	11.21	11.23	-
379	Miscellaneous transportation equipment	310.87	324.41	348.79	367.62	-	7.89	8.03	8.83	9.26	-
3792	Travel trailers and campers	253.50	279.80	284.90	284.65	-	6.87	7.23	7.70	7.82	-
38	INSTRUMENTS AND RELATED PRODUCTS	306.64	307.04	335.16	335.07	\$332.54	7.59	7.60	8.40	8.44	\$8.44
381	Engineering and scientific instruments	322.79	328.02	339.25	346.06	-	7.97	8.02	8.46	8.63	-
382	Measuring and controlling devices	308.10	305.78	351.20	345.84	-	7.57	7.55	8.78	8.80	-
3822	Environmental controls	281.85	274.45	303.78	300.69	-	7.19	7.11	7.87	7.81	-
3823	Process control instruments	318.75	323.51	325.51	326.23	-	7.50	7.63	8.22	8.28	-
3825	Instruments to measure electricity	325.97	317.56	404.17	400.36	-	7.97	7.88	9.81	9.91	-
383	Optical instruments and lenses	326.73	321.50	348.79	356.87	-	8.23	8.16	8.83	8.79	-
384	Medical instruments and supplies	259.65	262.42	276.90	276.36	-	6.59	6.61	7.01	7.05	-
3841	Surgical and medical instruments	258.89	263.06	283.81	281.39	-	6.44	6.56	7.06	7.07	-
3842	Surgical appliances and supplies	261.61	262.52	272.61	274.25	-	6.76	6.68	6.99	7.05	-
385	Ophthalmic goods	227.26	226.69	242.35	240.58	-	5.71	5.71	6.12	6.06	-
386	Photographic equipment and supplies	410.44	415.80	425.72	440.75	-	9.89	9.90	10.59	10.75	-
387	Watches, clocks, and watchcases	228.28	229.50	243.36	237.77	-	5.75	5.81	6.13	6.05	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	234.14	237.77	246.65	248.83	251.94	6.05	6.05	6.39	6.48	6.51
391	Jewelry, silverware, and plated ware	252.59	262.02	259.38	261.37	-	6.51	6.60	6.88	6.86	-
3911	Jewelry, precious metal	255.74	265.16	255.07	261.70	-	6.66	6.73	6.95	6.96	-
393	Musical instruments	232.54	232.76	252.20	243.17	-	6.04	6.03	6.50	6.59	-
394	Toys and sporting goods	220.74	222.61	232.85	237.77	-	5.66	5.65	5.94	6.05	-
3942, 4	Dolls, games, toys, and children's vehicles	204.91	203.70	220.13	219.43	-	5.35	5.25	5.63	5.67	-
3949	Sporting and athletic goods, nec	238.40	243.41	245.39	256.16	-	5.99	6.07	6.26	6.42	-
395	Pens, pencils, office and art supplies	241.70	246.98	266.53	266.34	-	6.15	6.19	6.68	6.76	-
396	Costume jewelry and notions	201.88	202.79	204.33	208.19	-	5.23	5.16	5.42	5.45	-
3961	Costume jewelry	188.82	184.99	191.14	197.49	-	4.93	4.78	5.03	5.09	-
399	Miscellaneous manufactures	249.06	252.85	262.19	265.24	-	6.52	6.50	6.81	6.98	-
3993	Signs and advertising displays	273.86	275.18	282.41	293.38	-	7.04	7.02	7.26	7.64	-
NONOURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	300.89	296.65	310.86	315.21	310.87	7.56	7.51	7.85	7.90	7.87
201	Meat products	300.13	294.00	292.14	296.29	-	7.56	7.50	7.51	7.52	-
2011	Meat packing plants	379.13	377.15	364.49	370.12	-	9.18	9.11	8.89	8.94	-
2013	Sausages and other prepared meats	353.42	345.05	358.29	359.29	-	8.88	8.78	9.14	9.05	-
2016	Poultry dressing plants	187.56	179.22	187.76	193.21	-	4.91	4.87	5.13	5.18	-
202	Dairy products	323.22	311.81	334.14	344.45	-	7.82	7.68	8.13	8.32	-
2022	Cheese, natural and processed	296.21	285.32	303.77	311.66	-	7.48	7.26	7.71	7.89	-
2026	Fluid milk	349.92	327.98	350.69	361.64	-	8.10	7.98	8.43	8.59	-
203	Preserved fruits and vegetables	263.13	251.90	275.92	281.10	-	6.67	6.56	6.95	7.01	-
2032	Canned specialties	315.75	335.79	357.08	376.17	-	7.50	7.58	8.19	8.53	-
2033	Canned fruits and vegetables	263.07	241.98	273.62	276.58	-	6.66	6.47	6.98	6.88	-
2037	Frozen fruits and vegetables	250.10	237.86	255.02	280.16	-	6.53	6.36	6.44	6.80	-
204	Grain mill products	371.91	361.66	388.09	399.97	-	8.53	8.45	9.11	9.28	-
2041	Flour and other grain mill products	395.87	379.85	421.74	422.42	-	8.55	8.46	9.31	9.45	-
2048	Prepared feeds, nec	295.67	294.29	300.33	315.66	-	6.86	6.86	7.10	7.29	-
205	Bakery products	308.27	305.98	319.79	327.08	-	8.07	8.01	8.46	8.54	-
2051	Bread, cake, and related products	310.84	305.42	321.75	329.28	-	8.18	8.08	8.58	8.62	-
2052	Cookies and crackers	299.54	306.54	314.24	321.21	-	7.74	7.82	8.12	8.30	-
206	Sugar and confectionery products	291.67	294.94	324.38	314.00	-	7.31	7.09	7.97	7.85	-
2061-3	Cane and beet sugar	374.96	346.54	393.34	385.54	-	8.72	7.77	9.41	9.29	-
2065	Confectionery products	245.24	252.73	278.87	264.71	-	6.42	6.35	7.06	6.84	-
207	Fats and oils	344.80	334.96	353.21	363.72	-	8.00	7.90	8.35	8.40	-
208	Beverages	374.14	367.49	394.94	400.72	-	9.17	9.28	9.68	9.87	-
2082	Malt beverages	525.34	529.05	556.78	562.22	-	12.39	12.81	13.07	13.26	-
2086	Bottled and canned soft drinks	271.44	262.48	302.74	294.46	-	6.82	6.80	7.42	7.38	-
209	Misc. foods and kindred products	244.12	248.52	261.32	255.19	-	6.58	6.54	6.95	6.86	-
21	TOBACCO MANUFACTURES	352.15	341.60	363.09	379.93	382.71	8.76	8.67	9.53	9.57	9.64
211	Cigarettes	458.90	447.83	454.96	480.64	-	11.22	11.14	11.91	12.23	-
22	TEXTILE MILL PRODUCTS	221.34	225.37	222.91	223.85	225.61	5.69	5.72	5.82	5.86	5.86
221	Weaving mills, cotton	238.60	241.38	227.08	231.33	-	5.95	5.96	5.96	6.04	-
222	Weaving mills, synthetics	242.00	251.71	236.69	234.36	-	5.99	6.08	6.18	6.20	-
223	Weaving and finishing mills, wool	232.64	236.34	240.86	227.30	-	5.73	5.85	6.16	6.16	-
224	Narrow fabric mills	202.64	201.37	213.68	217.88	-	5.13	5.19	5.55	5.63	-
225	Knitting mills	193.20	197.40	204.12	204.17	-	5.25	5.25	5.40	5.43	-

See footnotes at end of table.

ESTABLISHMENT DATA
HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	39.8	40.5	40.9	40.7	-	2.6	3.0	3.4	3.0	-
3761	Guided missiles and space vehicles	39.7	40.2	41.4	41.4	-	2.4	2.8	3.6	3.1	-
379	Miscellaneous transportation equipment	39.4	40.4	39.5	39.7	-	2.1	2.3	2.8	3.6	-
3792	Travel trailers and campers	36.9	38.7	37.0	36.4	-	1.2	2.0	1.4	1.5	-
38	INSTRUMENTS AND RELATED PRODUCTS		40.4	40.4	39.9	39.7	39.4	2.4	2.2	1.6	1.7
381	Engineering and scientific instruments	40.5	40.9	40.1	40.1	-	3.3	2.7	1.7	2.1	-
382	Measuring and controlling devices	40.7	40.5	40.0	39.3	-	2.2	2.1	1.1	1.0	-
3822	Environmental controls	39.2	38.6	38.6	38.5	-	1.7	1.4	1.0	.7	-
3823	Process control instruments	42.5	42.4	39.6	39.4	-	3.2	3.1	1.0	1.5	-
3825	Instruments to measure electricity	40.9	40.3	41.2	40.4	-	1.9	1.9	1.0	.9	-
383	Optical instruments and lenses	39.7	39.4	39.5	40.6	-	2.5	2.0	1.6	2.0	-
384	Medical instruments and supplies	39.4	39.7	39.5	39.2	-	2.5	2.3	2.0	2.1	-
3841	Surgical and medical instruments	40.2	40.1	40.2	39.8	-	2.5	2.3	2.5	2.5	-
3842	Surgical appliances and supplies	38.7	39.3	39.0	38.9	-	2.7	2.4	1.6	1.8	-
385	Ophthalmic goods	39.8	39.7	39.6	39.7	-	1.6	1.3	1.6	1.7	-
386	Photographic equipment and supplies	41.5	42.0	40.2	41.0	-	2.6	2.8	1.8	2.0	-
387	Watches, clocks, and watchcases	39.7	39.5	39.7	39.3	-	2.2	2.0	1.8	2.3	-
39	MISCELLANEOUS MANUFACTURING		38.7	39.3	38.6	38.4	38.7	2.2	2.2	1.6	1.8
391	Jewelry, silverware, and plated ware	38.8	39.7	37.7	38.1	-	2.2	3.0	1.4	1.7	-
3911	Jewelry, precious metal	38.4	39.4	36.7	37.6	-	2.2	3.2	1.2	1.8	-
393	Musical instruments	38.5	38.6	38.8	36.9	-	1.3	1.6	.7	.6	-
394	Toys and sporting goods	39.0	39.4	39.2	39.3	-	2.5	2.2	1.6	1.7	-
3942, 4	Dolls, games, toys, and children's vehicles	38.3	38.8	39.1	38.7	-	2.3	1.7	1.3	1.2	-
3949	Sporting and athletic goods, nec	39.8	40.1	39.2	39.9	-	2.7	2.6	2.0	2.1	-
395	Pens, pencils, office and art supplies	39.3	39.9	39.9	39.4	-	1.8	1.9	1.7	1.6	-
396	Costume jewelry and notions	38.6	39.3	37.7	38.2	-	2.1	2.3	2.1	2.6	-
3961	Costume jewelry	38.3	38.7	38.0	38.8	-	2.0	2.0	2.8	3.7	-
399	Miscellaneous manufactures	38.2	38.9	38.5	38.0	-	2.1	2.0	1.6	1.8	-
3993	Signs and advertising displays	38.9	39.2	38.9	38.4	-	2.6	2.5	1.8	2.0	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS		39.8	39.5	39.6	39.9	39.5	4.2	3.7	3.9	4.2
201	Meat products	39.7	39.2	38.9	39.4	-	3.8	3.5	3.3	3.6	-
2011	Meat packing plants	41.3	41.4	41.0	41.4	-	5.1	4.5	4.3	4.8	-
2013	Sausages and other prepared meats	39.8	39.3	39.2	39.7	-	3.6	3.5	3.3	3.1	-
2016	Poultry dressing plants	38.2	36.8	36.6	37.3	-	2.4	2.3	2.3	2.5	-
202	Dairy products	42.1	40.6	41.1	41.4	-	4.6	3.4	3.9	4.3	-
2022	Cheese, natural and processed	39.6	39.3	39.4	39.5	-	3.5	2.9	3.0	3.7	-
2026	Fluid milk	43.2	41.1	41.6	42.1	-	5.5	3.8	4.2	4.7	-
203	Preserved fruits and vegetables	39.0	38.4	39.7	40.1	-	4.5	3.3	5.0	5.4	-
2032	Canned specialties	42.1	44.3	43.6	44.1	-	5.1	4.6	6.0	7.2	-
2033	Canned fruits and vegetables	39.5	37.4	39.2	40.2	-	5.1	3.4	5.4	5.8	-
2037	Frozen fruits and vegetables	38.3	37.4	39.6	41.2	-	4.7	3.4	5.0	6.7	-
204	Grain mill products	43.6	42.8	42.6	43.1	-	6.3	5.7	5.1	6.0	-
2041	Flour and other grain mill products	46.3	44.9	45.3	44.7	-	7.1	5.6	6.1	7.3	-
2048	Prepared feeds, nec	43.1	42.9	42.3	43.3	-	6.1	5.7	5.0	5.9	-
205	Bakery products	38.2	38.2	37.8	38.3	-	3.5	3.0	2.8	3.1	-
2051	Bread, cake, and related products	38.0	37.8	37.5	38.2	-	3.9	3.1	3.0	3.3	-
2052	Cookies and crackers	38.7	39.2	38.7	38.7	-	2.5	2.7	2.3	2.6	-
206	Sugar and confectionery products	39.9	41.6	40.7	40.0	-	3.3	4.3	3.0	3.4	-
2061-3	Cane and beet sugar	43.0	44.6	41.8	41.5	-	5.0	6.7	3.9	5.2	-
2065	Confectionery products	38.2	39.8	39.5	38.7	-	2.6	3.2	2.3	2.4	-
207	Fats and oils	43.1	42.4	42.3	43.3	-	5.7	5.7	4.9	5.6	-
208	Beverages	40.8	39.6	40.8	40.6	-	4.5	3.8	3.9	3.9	-
2082	Malt beverages	42.4	41.3	42.6	42.4	-	6.7	6.2	5.2	5.4	-
2088	Bottled and canned soft drinks	39.8	38.6	40.8	39.9	-	3.5	2.9	4.0	3.3	-
209	Misc. foods and kindred products	37.1	38.0	37.6	37.2	-	3.3	3.2	3.7	3.3	-
21	TOBACCO MANUFACTURES		40.2	39.4	38.1	39.7	39.7	2.5	1.9	1.8	1.9
211	Cigarettes	40.9	40.2	38.2	39.3	-	3.2	2.5	1.7	1.9	-
22	TEXTILE MILL PRODUCTS		38.9	39.4	38.3	38.2	38.5	2.7	2.8	2.2	2.4
221	Weaving mills, cotton	40.1	40.5	38.1	38.3	-	3.2	3.1	2.1	2.5	-
222	Weaving mills, synthetics	40.4	41.4	38.3	37.8	-	3.1	3.8	1.9	2.0	-
223	Weaving and finishing mills, wool	40.6	40.4	39.1	36.9	-	3.3	4.0	2.8	2.8	-
224	Narrow fabric mills	39.5	38.8	38.5	38.7	-	2.1	2.4	1.8	1.5	-
225	Knitting mills	36.8	37.6	37.8	37.6	-	1.9	2.1	2.1	2.2	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
	TEXTILE MILL PRODUCTS—Continued										
2251	Women's hosiery, except socks	\$183.82	\$185.87	\$200.03	\$204.22	-	\$5.05	\$5.01	\$5.25	\$5.36	-
2252	Hosiery, nec	179.34	186.24	191.95	191.42	-	4.90	4.94	5.16	5.23	-
2253	Knit outerwear mills	187.61	195.43	197.17	196.65	-	5.14	5.17	5.23	5.23	-
2254	Knit underwear mills	178.21	181.22	182.69	182.69	-	5.02	5.02	5.19	5.19	-
2257	Circular knit fabric mills	230.83	230.68	239.99	249.07	-	5.98	5.93	6.03	6.06	-
226	Textile finishing, except wool	238.37	245.01	239.47	246.02	-	6.05	6.11	6.22	6.26	-
2261	Finishing plants, cotton	244.99	246.23	239.32	249.02	-	6.14	6.11	6.20	6.21	-
2262	Finishing plants, synthetics	241.64	257.35	247.00	245.52	-	6.26	6.37	6.50	6.60	-
227	Floor covering mills	222.34	227.33	235.56	228.09	-	5.79	5.92	6.04	6.05	-
228	Yarn and thread mills	208.21	208.50	211.03	211.03	-	5.38	5.36	5.51	5.51	-
2281	Yarn mills, except wool	207.13	209.28	209.66	212.39	-	5.38	5.38	5.46	5.46	-
2282	Throwing and winding mills	206.72	200.34	202.66	205.04	-	5.26	5.15	5.39	5.41	-
229	Miscellaneous textile goods	254.16	257.26	262.10	257.71	-	6.26	6.29	6.52	6.61	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	177.41	180.79	183.37	182.52	\$183.04	5.04	5.05	5.18	5.20	\$5.20
231	Men's and boys' suits and coats	208.15	212.58	204.28	207.90	-	5.75	5.84	5.87	5.94	-
232	Men's and boys' furnishings	164.88	168.17	172.31	171.12	-	4.58	4.62	4.76	4.78	-
2321	Men's and boys' shirts and nightwear	158.55	163.99	165.50	162.75	-	4.53	4.53	4.61	4.65	-
2327	Men's and boys' separate trousers	170.09	171.34	173.02	170.85	-	4.66	4.72	4.86	4.88	-
2328	Men's and boys' work clothing	162.87	169.13	174.80	174.22	-	4.45	4.51	4.75	4.76	-
233	Women's and misses' outerwear	165.79	169.68	171.86	169.76	-	5.07	5.02	5.13	5.16	-
2331	Women's and misses' blouses and waists	159.13	160.95	163.48	162.58	-	4.75	4.72	4.78	4.74	-
2335	Women's and misses' dresses	163.39	169.11	170.17	167.16	-	5.22	5.14	5.22	5.29	-
2337	Women's and misses' suits and coats	184.90	181.91	190.14	185.15	-	5.62	5.58	5.71	5.75	-
2339	Women's and misses' outerwear, nec	162.92	169.53	169.29	169.16	-	4.82	4.83	4.95	4.99	-
234	Women's and children's undergarments	167.17	167.99	166.72	153.22	-	4.58	4.59	4.67	4.74	-
2341	Women's and children's underwear	165.97	165.88	165.60	167.76	-	4.51	4.52	4.60	4.66	-
2342	Brassieres and allied garments	172.83	177.38	173.91	177.32	-	4.91	4.90	5.10	5.20	-
238	Children's outerwear	164.61	167.40	165.49	164.73	-	4.65	4.65	4.70	4.68	-
2361	Children's dresses and blouses	161.81	166.06	163.78	159.85	-	4.61	4.60	4.72	4.62	-
238	Misc. apparel and accessories	180.68	187.13	186.88	185.50	-	4.95	4.99	5.22	5.24	-
239	Misc. fabricated textile products	223.06	225.97	233.78	233.31	-	5.87	5.90	6.12	6.06	-
2391	Curtains and draperies	166.73	160.38	170.25	176.02	-	4.47	4.48	4.69	4.62	-
2392	House furnishing, nec	190.08	197.39	198.91	205.41	-	4.95	5.01	5.18	5.24	-
2396	Automotive and apparel trimmings	393.12	403.22	436.65	405.73	-	10.08	10.26	10.65	10.43	-
26	PAPER AND ALLIED PRODUCTS	386.64	373.97	393.12	401.57	395.37	8.95	8.82	9.45	9.63	9.55
261, 2,6	Paper and pulp mills	495.36	462.65	482.85	506.41	-	10.63	10.42	11.10	11.38	-
262	Paper mills, except building paper	503.13	465.30	486.86	513.02	-	10.57	10.34	11.04	11.35	-
263	Paperboard mills	490.82	459.39	475.45	472.64	-	10.74	10.37	11.24	11.67	-
264	Misc. converted paper products	317.34	318.20	336.13	338.58	-	7.74	7.78	8.32	8.36	-
2641	Paper coating and glazing	375.78	376.58	391.52	389.05	-	8.78	8.84	9.48	9.42	-
2642	Envelopes	281.90	290.97	305.12	306.40	-	7.03	7.22	7.59	7.66	-
2643	Bags, except textile bags	295.14	300.94	317.05	323.38	-	7.36	7.34	7.79	7.83	-
265	Paperboard containers and boxes	316.00	317.54	336.60	340.25	-	7.67	7.67	8.25	8.36	-
2651	Folding paperboard boxes	319.30	320.80	344.42	341.38	-	7.75	7.73	8.38	8.45	-
2653	Corrugated and solid fiber boxes	336.94	338.10	358.98	366.59	-	8.08	8.05	8.65	8.77	-
2654	Sanitary food containers	295.53	295.92	319.84	313.63	-	7.07	7.20	7.82	7.90	-
27	PRINTING AND PUBLISHING	313.04	312.48	326.11	329.82	327.82	8.37	8.40	8.79	8.89	8.86
271	Newspapers	291.88	286.24	294.82	301.06	-	8.61	8.57	8.88	8.96	-
272	Periodicals	284.53	292.06	343.90	336.50	-	7.69	7.83	9.05	9.07	-
273	Books	295.22	296.29	311.42	318.82	-	7.81	7.88	8.11	8.39	-
2731	Book publishing	283.02	276.35	299.75	302.68	-	7.67	7.53	7.93	8.05	-
2732	Book printing	308.46	317.24	324.53	336.77	-	7.95	8.24	8.30	8.77	-
274	Miscellaneous publishing	273.78	277.97	305.18	299.11	-	7.46	7.70	8.16	8.15	-
275	Commercial printing	336.30	336.59	350.35	354.73	-	8.69	8.72	9.10	9.19	-
2751	Commercial printing, letterpress	312.48	314.11	331.39	336.98	-	8.18	8.18	8.63	8.73	-
2752	Commercial printing, lithographic	347.88	347.53	355.42	361.30	-	8.92	8.98	9.28	9.36	-
276	Manifold business forms	331.17	334.06	344.96	341.88	-	8.30	8.31	8.80	8.88	-
278	Blankbooks and bookbinding	245.12	244.22	257.72	261.89	-	6.40	6.41	6.80	6.82	-
279	Printing trade services	393.34	392.70	408.81	408.74	-	10.27	10.28	10.73	10.70	-
28	CHEMICALS AND ALLIED PRODUCTS	395.84	388.86	408.22	420.65	418.61	9.38	9.37	10.03	10.21	10.26
281	Industrial inorganic chemicals	447.32	431.55	446.62	456.92	-	10.55	10.50	11.11	11.31	-
2819	Industrial inorganic chemicals, nec	449.01	432.72	450.87	456.11	-	10.68	10.58	11.30	11.46	-
282	Plastics materials and synthetics	406.08	381.47	401.17	424.76	-	9.25	9.17	9.93	10.26	-
2821	Plastics materials and resins	439.75	426.70	440.18	465.47	-	10.04	10.04	10.71	11.03	-
2824	Organic fibers, noncellulosic	387.63	357.79	374.30	402.94	-	8.77	8.58	9.50	9.78	-
283	Drugs	350.99	351.88	374.74	382.85	-	8.54	8.52	9.14	9.27	-
2834	Pharmaceutical preparations	331.68	332.10	356.49	365.81	-	8.21	8.20	8.89	9.01	-

See footnotes at end of table.

ESTABLISHMENT DATA
HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours					
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	
TEXTILE MILL PRODUCTS—Continued												
2251	Women's hosiery, except socks	36.4	37.1	38.1	38.1	-	2.0	2.2	1.8	2.4	-	
2262	Hosiery, nec	36.6	37.7	37.2	36.6	-	1.8	2.0	1.7	1.8	-	
2253	Knit outerwear mills	36.5	37.8	37.7	37.6	-	1.9	2.4	2.2	2.2	-	
2254	Knit underwear mills	35.5	36.1	35.2	35.2	-	1.6	1.2	1.0	1.2	-	
2257	Circular knit fabric mills	38.6	38.9	39.8	41.1	-	1.6	2.4	3.4	3.6	-	
226	Textile finishing, except wool	39.4	40.1	38.5	39.3	-	3.2	3.2	2.3	2.5	-	
2261	Finishing plants, cotton	39.9	40.3	38.6	40.1	-	3.3	3.0	2.0	2.2	-	
2262	Finishing plants, synthetics	38.6	40.4	38.0	37.2	-	3.0	3.5	2.7	2.7	-	
227	Floor covering mills	38.4	38.4	39.0	37.7	-	2.9	2.3	2.4	2.0	-	
228	Yarn and thread mills	38.7	38.9	38.3	38.3	-	2.9	2.5	2.5	2.7	-	
2281	Yarn mills, except wool	38.5	38.9	38.4	38.9	-	2.8	2.5	2.5	2.9	-	
2282	Throwing and winding mills	39.3	38.9	37.6	37.9	-	3.5	3.0	2.4	2.3	-	
228	Miscellaneous textile goods	40.6	40.9	40.2	40.5	-	3.3	3.5	2.7	2.8	-	
23	APPAREL AND OTHER TEXTILE PRODUCTS		35.2	35.8	35.4	35.1	35.2	1.1	1.2	1.0	1.0	-
231	Men's and boys' suits and coats	36.2	36.4	34.8	35.0	-	.8	.8	.8	.7	-	
232	Men's and boys' furnishings	36.0	36.4	36.2	35.8	-	.8	.9	.9	1.0	-	
2321	Men's and boys' shirts and nightwear	35.0	36.2	35.9	35.0	-	.7	.9	1.1	1.0	-	
2327	Men's and boys' separate trousers	36.5	36.3	35.6	35.3	-	.9	.9	.9	.9	-	
2328	Men's and boys' work clothing	36.6	37.5	36.8	36.6	-	.9	1.0	1.0	1.3	-	
233	Women's and misses' outerwear	32.7	33.8	33.5	32.9	-	.9	1.0	1.0	.9	-	
2331	Women's and misses' blouses and waist	33.5	34.1	34.2	34.3	-	.8	.9	1.1	1.0	-	
2335	Women's and misses' dresses	31.3	32.9	32.6	31.6	-	.8	1.0	.9	.8	-	
2337	Women's and misses' suits and coats	32.9	32.6	33.3	32.2	-	.9	.8	.8	.9	-	
2339	Women's and misses' outerwear, nec	33.8	35.1	34.2	33.9	-	.9	1.1	1.0	.8	-	
234	Women's and children's undergarments	36.5	36.6	35.7	35.7	-	1.6	1.6	.8	1.0	-	
2341	Women's and children's underwear	36.8	36.7	36.0	36.0	-	1.6	1.7	.8	1.1	-	
2342	Brasieres and allied garments	35.2	36.2	34.1	34.1	-	1.5	1.3	.6	.6	-	
236	Children's outerwear	35.4	36.0	35.2	35.2	-	1.2	1.4	1.2	.9	-	
2361	Children's dresses and blouses	35.1	36.1	34.7	34.6	-	1.2	1.5	1.2	.8	-	
238	Misc. apparel and accessories	36.5	37.5	35.8	35.4	-	1.4	1.8	1.2	1.1	-	
239	Misc. fabricated textile products	38.0	38.3	38.2	38.5	-	1.8	2.0	1.7	1.8	-	
2391	Curtains and draperies	37.3	35.8	36.3	38.1	-	1.3	.8	1.1	1.6	-	
2392	House furnishings, nec	38.4	39.4	38.4	39.2	-	2.0	2.6	1.6	2.3	-	
2396	Automotive and apparel trimmings	39.0	39.3	41.0	38.9	-	2.2	2.0	3.6	2.1	-	
26	PAPER AND ALLIED PRODUCTS		43.2	42.4	41.6	41.7	41.4	5.6	4.4	4.0	4.6	-
261, 2, 6	Paper and pulp mills	46.6	44.4	43.5	44.5	-	8.9	6.0	5.6	7.0	-	
262	Paper mills, except building paper	47.6	45.0	44.1	45.2	-	9.3	6.3	5.8	7.3	-	
263	Paperboard mills	45.7	44.3	42.3	40.5	-	9.6	7.1	6.1	7.2	-	
264	Misc. converted paper products	41.0	40.9	40.4	40.5	-	3.0	2.9	2.6	2.7	-	
2641	Paper coating and glazing	42.8	42.6	41.3	41.3	-	3.3	3.0	2.3	2.6	-	
2642	Envelopes	40.1	40.3	40.2	40.0	-	2.3	2.7	2.3	2.2	-	
2643	Bags, except textile bags	40.1	41.0	40.7	41.3	-	3.2	3.3	2.9	3.2	-	
265	Paperboard containers and boxes	41.2	41.4	40.8	40.7	-	3.7	3.4	3.2	3.4	-	
2651	Folding paperboard boxes	41.2	41.5	41.1	40.4	-	3.6	3.5	3.1	3.1	-	
2653	Corrugated and solid fiber boxes	41.7	42.0	41.5	41.8	-	4.3	3.9	3.9	4.3	-	
2654	Sanitary food containers	41.8	41.1	40.9	39.7	-	3.1	2.5	2.8	2.5	-	
27	PRINTING AND PUBLISHING		37.4	37.2	37.1	37.1	37.0	2.7	2.6	2.3	2.5	-
271	Newspapers	33.9	33.4	33.2	33.6	-	1.9	1.8	1.4	1.6	-	
272	Periodicals	37.0	37.3	38.0	37.1	-	2.8	2.7	2.7	2.5	-	
273	Books	37.8	37.6	38.4	38.0	-	2.3	2.2	2.4	2.1	-	
2731	Book publishing	36.9	36.7	37.8	37.6	-	1.2	.8	1.4	1.1	-	
2732	Book printing	38.8	38.5	39.1	38.4	-	3.4	3.7	3.5	3.2	-	
274	Miscellaneous publishing	36.7	36.1	37.4	36.7	-	2.1	1.7	1.7	1.4	-	
275	Commercial printing	38.7	38.6	38.5	38.6	-	3.3	3.2	2.8	3.1	-	
2751	Commercial printing, letterpress	38.2	38.4	38.4	38.6	-	2.7	2.6	2.4	2.9	-	
2752	Commercial printing, lithographic	39.0	38.7	38.3	38.6	-	3.7	3.5	2.9	3.0	-	
276	Manifold business forms	39.9	40.2	39.2	38.5	-	3.4	3.3	2.2	2.1	-	
278	Blankbooks and bookbinding	38.3	38.1	37.9	38.4	-	1.8	1.7	1.4	1.7	-	
279	Printing trade service	38.3	38.2	38.1	38.2	-	3.6	3.6	3.8	3.8	-	
28	CHEMICALS AND ALLIED PRODUCTS		42.2	41.5	40.7	41.2	40.8	3.7	3.3	2.7	3.1	-
281	Industrial inorganic chemicals	42.4	41.1	40.2	40.4	-	4.1	3.4	2.9	3.6	-	
2819	Industrial inorganic chemicals, nec	42.2	40.9	39.9	39.8	-	4.1	3.3	2.9	3.8	-	
282	Plastics materials and synthetics	43.9	41.6	40.4	41.4	-	4.1	3.3	2.3	2.9	-	
2821	Plastics materials and resins	43.8	42.5	41.1	42.2	-	5.2	4.3	3.3	4.1	-	
2824	Organic fibers, noncellulosic	44.2	41.7	39.4	41.2	-	3.7	2.8	1.5	1.8	-	
283	Drugs	41.1	41.3	41.0	41.3	-	3.2	2.8	2.7	3.0	-	
2834	Pharmaceutical preparations	40.4	40.5	40.1	40.6	-	3.1	2.8	2.6	3.0	-	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$342.50	\$346.63	\$377.39	\$376.18	-	\$8.52	\$8.58	\$9.16	\$9.22	-
2841	Soap and other detergents	463.11	469.69	512.35	510.19	-	11.09	11.13	11.86	11.81	-
2844	Toilet preparations	254.49	261.80	292.40	289.34	-	6.61	6.73	7.31	7.40	-
2842, 3	Polishing, sanitizing, and finishing preparations	344.76	345.17	360.33	364.83	-	8.45	8.46	8.81	8.92	-
285	Paints and allied products	326.40	326.82	351.83	354.42	-	8.16	8.15	8.84	8.95	-
286	Industrial organic chemicals	481.14	480.82	493.16	516.43	-	11.01	11.13	11.97	12.18	-
2865	Cyclic crudes and intermediates	447.20	453.88	462.64	478.17	-	10.40	10.58	11.48	11.55	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	493.68	490.16	503.40	529.05	-	11.22	11.32	12.13	12.39	-
287	Agricultural chemicals	395.54	391.00	411.42	418.42	-	9.22	9.20	9.89	10.01	-
289	Miscellaneous chemical products	357.25	358.39	368.68	380.55	-	8.65	8.72	9.24	9.35	-
29	PETROLEUM AND COAL PRODUCTS	512.82	494.36	546.48	565.38	\$557.22	11.55	11.47	12.42	12.62	\$12.55
291	Petroleum refining	551.82	529.05	585.63	605.70	-	12.29	12.19	13.34	13.49	-
295	Paving and roofing materials	388.67	389.10	445.79	447.40	-	9.06	9.07	9.67	9.79	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	289.41	293.46	303.31	307.30	304.96	7.29	7.30	7.64	7.76	7.74
301	Tires and inner tubes	464.62	476.01	465.20	479.81	-	11.36	11.47	11.63	11.76	-
302	Rubber and plastics footwear	168.70	182.09	185.20	188.78	-	4.82	4.83	5.06	5.13	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	322.00	326.82	328.45	324.00	-	8.05	8.03	8.07	8.10	-
306	Fabricated rubber products, nec	271.26	276.58	290.21	289.34	-	6.85	6.88	7.31	7.40	-
307	Miscellaneous plastics products	264.67	264.80	279.09	291.24	-	6.65	6.62	7.03	7.12	-
31	LEATHER AND LEATHER PRODUCTS	183.24	186.80	192.95	191.70	188.81	5.09	5.09	5.33	5.40	5.41
311	Leather tanning and finishing	259.20	262.19	282.82	276.71	-	6.75	6.74	7.16	7.15	-
314	Footwear, except rubber	173.73	177.25	184.17	183.74	-	4.88	4.91	5.13	5.22	-
3143	Men's footwear, except athletic	187.98	191.21	193.50	194.39	-	5.15	5.14	5.36	5.43	-
3144	Women's footwear, except athletic	164.38	166.47	179.72	177.50	-	4.71	4.77	5.02	5.13	-
316	Luggage	199.29	206.22	209.51	201.83	-	5.49	5.47	5.74	5.75	-
317	Handbags and personal leather goods	171.72	180.38	178.00	174.74	-	4.81	4.81	4.89	4.95	-
-	TRANSPORTATION AND PUBLIC UTILITIES	390.04	388.65	409.90	406.12	406.62	9.95	9.94	10.43	10.44	10.48
4011	RAILROAD TRANSPORTATION: Class I railroads ²	462.21	453.05	489.72	-	-	10.65	10.61	11.55	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	225.77	229.83	276.02	236.00	-	6.78	6.74	7.46	7.13	-
411	Local and suburban transportation	292.59	295.94	308.83	308.10	-	7.37	7.38	7.74	7.80	-
413	Intercity highway transportation	400.00	386.60	450.07	417.24	-	10.84	10.65	11.97	11.59	-
42	TRUCKING AND WAREHOUSING	389.09	389.32	398.61	398.48	-	10.08	10.06	10.30	10.35	-
421, 3	Trucking and trucking terminals	397.58	399.64	408.18	407.33	-	10.30	10.30	10.52	10.58	-
422	Public warehousing	267.40	260.06	280.28	290.33	-	7.00	6.88	7.28	7.35	-
46	PIPE LINES, EXCEPT NATURAL GAS	502.14	498.74	535.92	560.74	-	11.57	11.68	12.76	12.98	-
48	COMMUNICATION	405.02	397.79	410.55	414.75	-	10.05	10.02	10.42	10.50	-
481	Telephone communication	426.13	418.40	436.61	440.90	-	10.47	10.46	10.97	11.05	-
4817	Switchboard operating employees ³	308.38	289.85	316.54	316.51	-	8.59	8.55	9.31	9.42	-
4818	Line construction employees ⁴	542.01	524.29	543.57	548.27	-	12.18	11.97	12.73	12.84	-
483	Radio and television broadcasting	324.61	316.30	322.98	331.09	-	8.52	8.39	8.59	8.69	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	417.13	422.69	444.03	450.17	-	10.10	10.21	10.83	10.90	-
491	Electric services	424.32	429.93	453.33	459.68	-	10.20	10.31	10.95	11.05	-
492	Gas production and distribution	377.58	387.32	393.78	402.35	-	9.30	9.47	9.82	9.91	-
493	Combination utility services	470.72	477.25	510.88	512.12	-	11.37	11.50	12.40	12.43	-
495	Sanitary services	341.40	329.99	354.77	361.92	-	8.09	7.99	8.59	8.70	-
-	WHOLESALE AND RETAIL TRADE	194.49	192.32	202.77	200.95	201.27	6.04	6.01	6.22	6.26	6.27
50, 51	WHOLESALE TRADE	296.45	298.38	313.05	312.96	314.16	7.70	7.73	8.11	8.15	8.16
50	WHOLESALE TRADE-DURABLE GOODS	297.22	301.86	313.56	313.12	-	7.68	7.74	8.04	8.07	-
501	Motor vehicles and automotive equipment	268.66	269.47	278.74	279.21	-	7.07	7.11	7.24	7.29	-
502	Furniture and home furnishings	264.46	267.38	279.74	278.63	-	7.09	7.13	7.44	7.47	-
503	Lumber and construction materials	306.54	314.82	310.83	313.56	-	7.82	7.97	7.97	8.04	-
504	Sporting goods, toys, and hobby goods	302.73	307.31	331.66	321.48	-	8.03	8.13	8.57	8.55	-

See footnotes at end of table.

ESTABLISHMENT DATA
HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	40.2	40.4	41.2	40.8	-	3.0	2.9	3.2	3.1	-
2841	Soap and other detergents	42.3	42.2	43.2	43.2	-	4.1	3.9	4.7	4.7	-
2844	Toilet preparations	38.5	38.9	40.0	39.1	-	2.3	2.4	2.3	2.1	-
2842, 3	Polishing, sanitation, and finishing preparations	40.8	40.8	40.9	40.9	-	3.0	2.6	2.8	2.9	-
285	Paints and allied products	40.0	40.1	39.8	39.6	-	2.6	2.2	2.3	2.1	-
286	Industrial organic chemicals	43.7	43.2	41.2	42.4	-	4.2	4.2	2.7	3.3	-
2865	Cyclic crudes and intermediates	43.0	42.9	40.3	41.4	-	4.1	3.8	2.5	3.0	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	44.0	43.3	41.5	42.7	-	4.3	4.3	2.8	3.4	-
287	Agricultural chemicals	42.9	42.5	41.6	41.8	-	4.4	4.1	3.2	3.6	-
289	Miscellaneous chemical products	41.3	41.1	39.9	40.7	-	3.3	3.1	2.3	2.8	-
29	PETROLEUM AND COAL PRODUCTS	44.4	43.1	44.0	44.8	44.4	4.1	4.0	4.3	4.4	-
291	Petroleum refining	44.9	43.4	43.9	44.9	-	3.9	3.8	3.5	3.7	-
295	Paving and roofing materials	42.9	42.9	46.1	45.7	-	5.6	5.9	8.1	8.2	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	39.7	40.2	39.7	39.6	39.4	3.1	3.0	2.8	2.8	-
301	Tires and inner tubes	40.9	41.5	40.0	40.8	-	3.0	3.4	3.0	2.9	-
302	Rubber and plastics footwear	35.0	37.7	36.6	36.8	-	1.4	1.8	1.0	.9	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	40.0	40.7	40.7	40.0	-	2.8	2.9	2.4	2.5	-
306	Fabricated rubber products, nec	39.6	40.2	39.7	39.1	-	2.7	2.6	2.3	2.3	-
307	Miscellaneous plastics products	39.8	40.0	39.7	39.5	-	3.3	3.1	3.0	2.9	-
31	LEATHER AND LEATHER PRODUCTS	36.0	36.7	36.2	35.5	34.9	1.3	1.3	1.2	1.2	-
311	Leather tanning and finishing	38.4	38.9	39.5	38.7	-	2.3	2.3	2.5	1.9	-
314	Footwear, except rubber	35.6	36.1	35.9	35.2	-	.9	1.0	1.2	1.2	-
3143	Men's footwear, except athletic	36.5	37.2	36.1	35.8	-	.9	1.1	.7	.7	-
3144	Women's footwear, except athletic	34.9	34.9	35.8	34.6	-	1.0	.8	1.5	1.6	-
316	Luggage	36.3	37.7	36.5	35.1	-	1.2	1.2	1.5	1.3	-
317	Handbags and personal leather goods	35.7	37.5	36.4	35.3	-	1.8	2.2	.9	1.0	-
-	TRANSPORTATION AND PUBLIC UTILITIES	39.2	39.1	39.3	38.9	38.8	-	-	-	-	-
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	43.4	42.7	42.4	-	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	33.3	34.1	37.0	33.1	-	-	-	-	-	-
411	Local and suburban transportation	39.7	40.1	39.9	39.5	-	-	-	-	-	-
413	Intercity highway transportation	36.9	36.3	37.6	36.0	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	38.6	38.7	38.7	38.5	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	38.6	38.8	38.8	38.5	-	-	-	-	-	-
422	Public warehousing	38.2	37.8	38.5	39.5	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	43.4	42.7	42.0	43.2	-	-	-	-	-	-
48	COMMUNICATION	40.3	39.7	39.4	39.5	-	-	-	-	-	-
481	Telephone communication	40.7	40.0	39.8	39.9	-	-	-	-	-	-
4817	Switchboard operating employees ³	35.9	33.9	34.0	33.6	-	-	-	-	-	-
4818	Line construction employees ⁴	44.5	43.8	42.7	42.7	-	-	-	-	-	-
483	Radio and television broadcasting	38.1	37.7	37.6	38.1	-	-	-	-	-	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.3	41.4	41.0	41.3	-	-	-	-	-	-
491	Electric services	41.6	41.7	41.4	41.6	-	-	-	-	-	-
492	Gas production and distribution	40.6	40.9	40.1	40.6	-	-	-	-	-	-
493	Combination utility services	41.4	41.5	41.2	41.2	-	-	-	-	-	-
495	Sanitary services	42.2	41.3	41.3	41.6	-	-	-	-	-	-
-	WHOLESALE AND RETAIL TRADE	32.2	32.0	32.6	32.1	32.1	-	-	-	-	-
50, 51	WHOLESALE TRADE	38.5	38.6	38.6	38.4	38.5	-	-	-	-	-
50	WHOLESALE TRADE-DURABLE GOODS	38.7	39.0	39.0	38.8	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	38.0	37.9	38.5	38.3	-	-	-	-	-	-
502	Furniture and home furnishings	37.3	37.5	37.6	37.3	-	-	-	-	-	-
503	Lumber and construction materials	39.2	39.5	39.0	39.0	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.7	37.8	38.7	37.6	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
WHOLESALE TRADE-DURABLE GOODS—Continued											
505	Metals and minerals, except petroleum	\$348.38	\$351.35	\$357.11	\$351.27	-	\$8.91	\$8.85	\$9.11	\$9.03	-
506	Electrical goods	315.79	324.18	342.94	341.64	-	8.16	8.27	8.66	8.76	-
507	Hardware, plumbing, and heating equipment	277.59	278.25	291.75	291.41	-	7.21	7.19	7.50	7.53	-
508	Machinery, equipment, and supplies	308.11	312.44	325.40	325.75	-	7.88	7.93	8.28	8.31	-
509	Miscellaneous durable goods	242.06	246.38	249.95	250.79	-	6.32	6.35	6.63	6.67	-
WHOLESALE TRADE-NONDURABLE GOODS											
51	Paper and paper products	293.75	294.90	312.36	312.68	-	7.71	7.72	8.22	8.25	-
511	Drugs, proprietaries, and sundries	314.64	319.68	331.50	327.82	-	8.55	8.64	8.84	8.86	-
512	Apparel, piece goods, and notions	307.56	306.27	335.02	337.54	-	8.29	8.30	8.91	8.79	-
513	Groceries and related products	250.43	256.13	281.15	279.55	-	6.75	6.83	7.64	7.68	-
514	Chemicals and allied products	296.83	297.61	316.80	315.47	-	7.73	7.71	8.25	8.28	-
516	Petroleum and petroleum products	353.99	352.42	370.75	373.84	-	9.10	9.13	9.58	9.66	-
517	Beer, wine, and distilled beverages	373.12	364.59	383.72	397.76	-	9.23	9.23	9.69	9.87	-
518	Miscellaneous nondurable goods	332.63	335.62	355.62	350.30	-	8.99	9.12	9.69	9.65	-
519	Retail trade	241.04	244.22	254.79	253.26	-	6.31	6.36	6.67	6.70	-
52-59	RETAIL TRADE	162.17	157.64	168.24	166.70	\$156.15	5.37	5.29	5.48	5.52	\$5.52
BUILDING MATERIALS AND GARDEN SUPPLIES											
52	Lumber and other building materials	214.97	213.23	221.19	220.57	-	5.81	5.81	6.06	6.11	-
521	Hardware stores	234.30	233.47	237.25	234.50	-	6.07	6.08	6.26	6.27	-
525	New and used car dealers	174.24	173.23	182.69	181.03	-	5.08	5.11	5.28	5.34	-
53	GENERAL MERCHANDISE STORES	161.80	150.28	161.22	160.23	-	5.34	5.20	5.41	5.45	-
531	Department stores	167.81	155.19	167.21	166.13	-	5.52	5.37	5.63	5.67	-
533	Variety stores	129.04	122.55	126.30	125.33	-	4.40	4.27	4.21	4.22	-
539	Misc. general merchandise stores	130.16	124.12	134.72	130.52	-	4.31	4.28	4.36	4.38	-
54	FOOD STORES	225.14	210.45	229.01	227.18	-	7.17	6.90	7.27	7.40	-
541	Grocery stores	235.53	219.20	238.58	237.31	-	7.43	7.14	7.55	7.68	-
548	Retail bakeries	141.98	140.06	148.89	145.58	-	4.93	4.88	5.03	5.02	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	229.02	227.77	237.51	233.62	-	6.14	6.09	6.30	6.28	-
551, 2	New and used car dealers	269.42	257.78	280.42	275.59	-	7.09	7.01	7.36	7.31	-
553	Auto and home supply stores	227.77	228.00	246.22	236.16	-	5.68	5.70	6.02	5.86	-
554	Gasoline service stations	171.42	172.04	179.72	177.61	-	4.87	4.86	5.02	5.06	-
56	APPAREL AND ACCESSORY STORES	136.80	134.05	139.78	137.48	-	4.75	4.72	4.82	4.91	-
561	Men's and boy's clothing and furnishings	167.77	165.36	173.54	158.85	-	5.36	5.30	5.44	5.50	-
562	Women's ready-to-wear stores	122.16	119.41	125.38	123.47	-	4.41	4.39	4.51	4.59	-
565	Family clothing stores	130.75	129.46	141.90	137.97	-	4.62	4.64	4.81	4.91	-
566	Shoe stores	147.39	141.22	144.54	142.52	-	5.10	4.99	4.95	5.09	-
57	FURNITURE AND HOME FURNISHINGS STORES	209.50	208.98	216.94	215.06	-	6.02	6.04	6.27	6.27	-
571	Furniture and home furnishings stores	210.63	207.95	215.46	215.17	-	6.07	6.01	6.30	6.31	-
572	Household appliance stores	221.79	217.27	232.17	232.32	-	6.23	6.19	6.54	6.60	-
573	Radio, television, and music stores	200.33	208.12	213.31	205.71	-	5.79	6.05	6.06	5.98	-
58	EATING AND DRINKING PLACES⁵	103.88	103.48	111.79	110.43	-	3.98	3.98	4.08	4.09	-
59	MISCELLANEOUS RETAIL	161.41	161.93	170.86	158.02	-	5.19	5.19	5.39	5.42	-
591	Drug stores and proprietary stores	143.66	141.98	151.85	149.21	-	4.92	4.93	5.13	5.11	-
594	Miscellaneous shopping goods stores	146.17	147.26	155.43	149.30	-	4.84	4.86	4.95	5.01	-
596	Nonstore retailers	195.47	189.95	208.46	205.55	-	5.87	5.67	6.26	6.21	-
598	Fuel and ice dealers	259.62	274.56	267.29	268.16	-	6.85	7.04	7.09	7.17	-
599	Retail stores, nec	168.61	170.30	185.35	180.50	-	5.22	5.24	5.50	5.52	-
—	FINANCE, INSURANCE, AND REAL ESTATE⁶	230.04	232.77	249.38	248.40	250.17	6.39	6.43	6.87	6.90	6.93
60	BANKING	197.29	200.39	217.86	215.12	-	5.45	5.49	5.92	5.91	-
602	Commercial and stock savings banks	194.39	197.47	211.60	209.51	-	5.37	5.41	5.75	5.74	-
61	CREDIT AGENCIES OTHER THAN BANKS	206.79	209.19	224.85	220.58	-	5.65	5.70	6.11	6.06	-
612	Savings and loan associations	190.44	192.77	204.33	199.87	-	5.29	5.34	5.66	5.63	-
614	Personal credit institutions	207.75	210.73	228.28	225.70	-	5.63	5.68	6.12	6.10	-
63	INSURANCE CARRIERS	266.38	269.31	287.61	286.81	-	7.18	7.22	7.69	7.71	-
631	Life insurance	283.09	284.24	290.57	289.01	-	7.61	7.60	7.79	7.79	-
632	Medical service and health insurance	249.38	253.46	273.02	271.92	-	6.58	6.67	7.30	7.29	-
633	Fire, marine, and casualty insurance	254.37	259.04	287.96	289.08	-	6.95	7.02	7.72	7.75	-

See footnotes at end of table.

ESTABLISHMENT DATA
HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
	WHOLESALE TRADE-DURABLE										
	GOODS—Continued										
505	Metals and minerals, except petroleum	39.1	39.7	39.2	38.9	-	-	-	-	-	-
506	Electrical goods	38.7	39.2	39.6	39.0	-	-	-	-	-	-
507	Hardware, plumbing, and heating equipment	38.5	38.7	38.9	38.7	-	-	-	-	-	-
508	Machinery, equipment, and supplies	39.1	39.4	39.3	39.2	-	-	-	-	-	-
509	Miscellaneous durable goods	38.3	38.8	37.7	37.6	-	-	-	-	-	-
61	WHOLESALE TRADE-NONDURABLE GOODS	38.1	38.2	38.0	37.9	-	-	-	-	-	-
611	Paper and paper products	36.8	37.0	37.5	37.0	-	-	-	-	-	-
512	Drugs, proprietarys, and sundries	37.1	36.9	37.6	38.4	-	-	-	-	-	-
513	Apparel, piece goods, and notions	37.1	37.5	36.8	36.4	-	-	-	-	-	-
514	Groceries and related products	38.4	38.6	38.4	38.1	-	-	-	-	-	-
516	Chemicals and allied products	38.9	38.6	38.7	38.7	-	-	-	-	-	-
517	Petroleum and petroleum products	40.1	39.5	39.6	40.3	-	-	-	-	-	-
518	Beer, wine, and distilled beverages	37.0	36.8	36.7	36.3	-	-	-	-	-	-
519	Miscellaneous nondurable goods	38.2	38.4	38.2	37.8	-	-	-	-	-	-
52-58	RETAIL TRADE	30.2	29.8	30.7	30.2	30.1	-	-	-	-	-
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	37.0	36.7	36.5	36.1	-	-	-	-	-	-
521	Lumber and other building materials	38.6	38.4	37.9	37.4	-	-	-	-	-	-
526	Hardware stores	34.3	33.9	34.6	33.9	-	-	-	-	-	-
53	GENERAL MERCHANDISE STORES	30.3	28.9	29.8	29.4	-	-	-	-	-	-
531	Department stores	30.4	28.9	29.7	29.3	-	-	-	-	-	-
533	Variety stores	29.1	28.7	30.0	29.7	-	-	-	-	-	-
539	Misc. general merchandise stores	30.2	29.0	30.9	29.8	-	-	-	-	-	-
54	FOOD STORES	31.4	30.5	31.5	30.7	-	-	-	-	-	-
541	Grocery stores	31.7	30.7	31.6	30.9	-	-	-	-	-	-
546	Retail bakeries	28.8	28.7	29.6	29.0	-	-	-	-	-	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	37.3	37.4	37.7	37.2	-	-	-	-	-	-
551, 2	New and used car dealers	38.0	38.2	38.1	37.7	-	-	-	-	-	-
553	Auto and home supply stores	40.1	40.0	40.9	40.3	-	-	-	-	-	-
554	Gasoline service stations	35.2	35.4	35.8	35.1	-	-	-	-	-	-
56	APPAREL AND ACCESSORY STORES	28.8	28.4	29.0	28.0	-	-	-	-	-	-
561	Men's and boys' clothing and furnishings	31.3	31.2	31.9	30.7	-	-	-	-	-	-
562	Women's ready-to-wear stores	27.7	27.2	27.8	26.9	-	-	-	-	-	-
565	Family clothing stores	28.3	27.9	29.5	28.1	-	-	-	-	-	-
566	Shoe stores	28.9	28.3	29.2	28.0	-	-	-	-	-	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	34.8	34.6	34.6	34.3	-	-	-	-	-	-
571	Furniture and home furnishings stores	34.7	34.6	34.2	34.1	-	-	-	-	-	-
572	Household appliance stores	35.6	35.1	35.5	35.2	-	-	-	-	-	-
573	Radio, television, and music stores	34.6	34.4	35.2	34.4	-	-	-	-	-	-
58	EATING AND DRINKING PLACES	26.1	26.0	27.4	27.0	-	-	-	-	-	-
59	MISCELLANEOUS RETAIL	31.1	31.2	31.7	31.0	-	-	-	-	-	-
591	Drug stores and proprietary stores	29.2	28.8	29.6	29.2	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	30.2	30.3	31.4	29.8	-	-	-	-	-	-
596	Nonstore retailers	33.3	33.5	33.3	33.1	-	-	-	-	-	-
598	Fuel and ice dealers	37.9	39.0	37.7	37.4	-	-	-	-	-	-
599	Retail stores, nec	32.3	32.5	33.7	32.7	-	-	-	-	-	-
	FINANCE, INSURANCE, AND REAL ESTATE	36.0	36.2	36.3	36.0	36.1	-	-	-	-	-
60	BANKING	36.2	36.5	36.8	36.4	-	-	-	-	-	-
602	Commercial and stock savings banks	36.2	36.5	36.8	36.5	-	-	-	-	-	-
61	CREDIT AGENCIES OTHER THAN BANKS	36.6	36.7	36.8	36.4	-	-	-	-	-	-
612	Savings and loan associations	36.0	36.1	36.1	35.5	-	-	-	-	-	-
614	Personal credit institutions	36.9	37.1	37.3	37.0	-	-	-	-	-	-
63	INSURANCE CARRIERS	37.1	37.3	37.4	37.2	-	-	-	-	-	-
631	Life insurance	37.2	37.4	37.3	37.1	-	-	-	-	-	-
632	Medical service and health insurance	37.9	38.0	37.4	37.3	-	-	-	-	-	-
633	Fire, marine, and casualty insurance	36.6	36.9	37.3	37.3	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
—	SERVICES	\$211.25	\$213.85	\$227.70	\$228.57	\$229.18	\$6.52	\$6.58	\$6.90	\$6.99	\$7.03
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts ²	148.96	152.21	156.92	154.03	—	4.90	4.91	4.95	5.05	—
721	PERSONAL SERVICES: Laundry, cleaning, and garment services	165.66	165.43	172.16	172.64	—	4.96	4.88	5.17	5.20	—
723	Beauty shops ³	138.70	140.70	154.62	155.58	—	4.67	4.69	5.35	5.31	—
73	BUSINESS SERVICES	213.16	215.49	232.98	230.43	—	6.62	6.61	7.06	7.09	—
731	Advertising	307.65	313.11	340.69	329.72	—	8.74	8.87	9.49	9.21	—
734	Services to buildings	147.40	148.23	159.37	153.44	—	5.50	5.49	5.76	5.79	—
737	Computer and data processing services	301.55	307.43	327.35	325.99	—	8.15	8.22	8.66	8.67	—
75	AUTO REPAIR, SERVICES, AND GARAGES	247.21	249.38	254.22	255.83	—	6.54	6.58	6.69	6.75	—
753	Automotive repair shops	273.15	276.75	280.41	284.31	—	7.04	7.06	7.19	7.29	—
76	MISCELLANEOUS REPAIR SERVICES	303.42	301.86	307.97	312.86	—	7.82	7.76	8.02	8.19	—
78	MOTION PICTURES	217.85	243.63	232.63	230.82	—	8.19	8.99	8.22	8.71	—
781	Motion picture production and services	440.63	482.79	484.60	482.63	—	11.75	12.54	12.82	12.87	—
79	AMUSEMENT AND RECREATION SERVICES	186.36	186.03	183.17	187.84	—	6.11	6.16	5.76	6.22	—
80	HEALTH SERVICES	211.90	212.88	232.69	235.43	—	6.48	6.53	7.03	7.07	—
801	Offices of physicians	211.86	212.16	219.79	222.03	—	6.60	6.63	6.89	6.79	—
802	Offices of dentists	180.41	182.90	191.48	190.96	—	6.33	6.44	6.79	6.82	—
805	Nursing and personal care facilities	145.07	142.14	155.03	156.16	—	4.62	4.60	4.86	4.88	—
806	Hospitals	236.94	239.33	262.89	266.34	—	7.01	7.06	7.62	7.72	—
81	LEGAL SERVICES	278.17	281.47	307.44	298.91	—	8.11	8.23	8.86	8.74	—
89	MISCELLANEOUS SERVICES	360.81	367.10	404.56	400.93	—	9.52	9.61	10.40	10.36	—
891	Engineering and architectural services	394.88	404.15	437.66	436.55	—	10.23	10.31	11.08	11.08	—
893	Accounting, auditing, and bookkeeping	301.88	303.06	333.64	329.35	—	8.05	8.06	8.78	8.69	—

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

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

³ Data relate to employees in such occupations in the telephone industry as switchboard operators; service assistants; operating room instructors; and pay-station attendants. In 1977, such employees made up 20 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

⁴ Data relate to employees in such occupations in the telephone industry as central office craft persons; installation and exchange repair craft persons; line, cable and conduit craft persons; and laborers. In 1977, such employees made up 37 percent of the

total number of nonsupervisory employees in establishments reporting hours and earnings data.

⁵ Money payments only; tips, not included.

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

⁷ 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 workers¹ on private nonagricultural payrolls
by Industry—Continued**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
-	SERVICES	32.4	32.5	33.0	32.7	32.6	-	-	-	-	-
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts ²	30.4	31.0	31.7	30.5	-	-	-	-	-	-
721	PERSONAL SERVICES: Laundry, cleaning, and garment services	33.4	33.9	33.3	33.2	-	-	-	-	-	-
723	Beauty shops ³	29.7	30.0	28.9	29.3	-	-	-	-	-	-
73	BUSINESS SERVICES	32.2	32.6	33.0	32.5	-	-	-	-	-	-
731	Advertising	35.2	35.3	35.9	35.8	-	-	-	-	-	-
734	Services to buildings	26.8	27.0	26.8	26.5	-	-	-	-	-	-
737	Computer and data processing services	37.0	37.4	37.8	37.6	-	-	-	-	-	-
75	AUTO REPAIR, SERVICES, AND GARAGES	37.8	37.9	38.0	37.9	-	-	-	-	-	-
753	Automotive repair shops	38.8	39.2	39.0	39.0	-	-	-	-	-	-
76	MISCELLANEOUS REPAIR SERVICES	38.8	38.9	38.4	38.2	-	-	-	-	-	-
78	MOTION PICTURES	26.6	27.1	28.3	26.5	-	-	-	-	-	-
781	Motion picture production and services	37.5	38.5	37.8	37.5	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	30.5	30.2	31.8	30.2	-	-	-	-	-	-
80	HEALTH SERVICES	32.7	32.6	33.1	33.3	-	-	-	-	-	-
801	Offices of physicians	32.1	32.0	31.9	32.7	-	-	-	-	-	-
802	Offices of dentists	28.5	28.4	28.2	28.0	-	-	-	-	-	-
805	Nursing and personal care facilities	31.4	30.9	31.9	32.0	-	-	-	-	-	-
806	Hospitals	33.8	33.9	34.5	34.5	-	-	-	-	-	-
81	LEGAL SERVICES	34.3	34.2	34.7	34.2	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	37.9	38.2	38.9	38.7	-	-	-	-	-	-
891	Engineering and architectural services	38.6	39.2	39.5	39.4	-	-	-	-	-	-
893	Accounting, auditing, and bookkeeping	37.5	37.6	38.0	37.9	-	-	-	-	-	-

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 ¹				
	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
MANUFACTURING	\$7.87	\$7.89	\$8.26	\$8.33	\$8.32
DURABLE GOODS	8.41	8.44	8.84	8.91	8.90
Lumber and wood products	6.95	6.89	7.36	7.41	-
Furniture and fixtures	5.87	5.91	6.24	6.26	-
Stone, clay, and glass products	8.13	8.12	8.53	8.61	-
Primary metal industries	10.78	10.62	11.19	11.24	-
Fabricated metal products	8.06	8.11	8.63	8.67	-
Machinery, except electrical	8.63	8.70	9.11	9.17	-
Electric and electronic equipment	7.54	7.59	8.06	8.13	-
Transportation equipment	10.12	10.36	10.80	10.88	-
Instruments and related products	7.37	7.40	8.24	8.27	-
Miscellaneous manufacturing industries	5.89	5.89	6.26	6.34	-
NONDURABLE GOODS	7.08	7.07	7.48	7.56	7.56
Food and kindred products	7.18	7.17	7.48	7.51	-
Tobacco manufactures	8.49	8.46	9.31	9.35	-
Textile mill products	5.49	5.52	5.66	5.69	-
Apparel and other textile products	4.96	4.96	5.10	5.12	-
Paper and allied products	8.41	8.38	9.01	9.12	-
Printing and publishing	8.07	8.11	8.52	8.60	-
Chemicals and allied products	8.98	9.02	9.70	9.84	-
Petroleum and coal products	11.04	10.96	11.85	12.02	-
Rubber and misc. plastics products	7.01	7.03	7.38	7.50	-
Leather and leather products	5.00	5.00	5.24	5.30	-

¹ 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 workers¹ on private nonagricultural payrolls by industry division, in current and constant (1977) dollars

Industry	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
TOTAL PRIVATE:					
Current dollars	\$259.74	\$261.18	\$271.04	\$270.05	\$270.74
Constant (1977) dollars	168.88	169.49	168.24	167.42	-
MINING:					
Current dollars	450.85	456.13	463.43	461.20	\$459.64
Constant (1977) dollars	293.14	296.00	288.20	285.93	-
CONSTRUCTION:					
Current dollars	396.31	419.62	436.16	431.73	\$436.60
Constant (1977) dollars	257.68	272.30	270.74	267.66	-
MANUFACTURING:					
Current dollars	322.32	323.95	331.89	334.15	\$332.13
Constant (1977) dollars	209.57	210.22	206.40	207.16	-
TRANSPORTATION AND PUBLIC UTILITIES:					
Current dollars	390.04	388.65	409.90	406.12	\$406.62
Constant (1977) dollars	253.60	252.21	254.44	251.78	-
WHOLESALE AND RETAIL TRADE:					
Current dollars	194.49	192.32	202.77	200.95	\$201.27
Constant (1977) dollars	126.46	124.80	126.10	124.58	-
FINANCE, INSURANCE, AND REAL ESTATE:					
Current dollars	230.04	232.77	249.38	248.40	\$250.17
Constant (1977) dollars	149.57	151.05	155.09	154.00	-
SERVICES:					
Current dollars	211.25	213.85	227.70	228.57	\$229.18
Constant (1977) dollars	137.35	138.77	141.60	141.70	-

¹ 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 workers¹ on private nonagricultural payrolls by industry division and major manufacturing group

(1977=100)

Industry division and group	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
	Hours				
TOTAL PRIVATE	109.0	109.0	106.1	105.0	104.2
GOODS-PRODUCING	102.8	102.6	91.8	91.5	90.0
MINING	145.0	146.2	123.7	120.0	118.0
CONSTRUCTION	111.5	116.1	110.7	106.9	106.8
MANUFACTURING	99.1	97.9	86.6	87.1	85.4
DURABLE GOODS	98.4	97.6	82.8	83.2	81.5
Lumber and wood products.....	87.6	84.3	82.6	82.2	80.2
Furniture and fixtures.....	96.8	98.6	88.6	89.0	89.7
Stone, clay, and glass products.....	'93.1	91.0	82.2	82.1	81.1
Primary metal industries.....	93.3	87.8	65.9	64.7	60.8
Fabricated metal products.....	96.4	95.7	81.2	81.5	80.1
Machinery, except electrical.....	109.8	109.7	86.2	86.5	82.7
Electric and electronic equipment.....	106.1	105.9	94.2	94.0	93.8
Transportation equipment.....	88.7	90.3	74.6	77.3	76.6
Instruments and related products.....	113.7	113.1	105.0	103.7	101.6
Miscellaneous manufacturing industries.....	94.2	95.6	83.7	84.4	84.8
NONDURABLE GOODS	100.1	98.4	92.2	93.0	91.3
Food and kindred products.....	106.2	102.0	102.9	104.7	100.0
Tobacco manufactures.....	112.1	108.9	95.5	99.6	99.1
Textile mill products.....	87.8	87.0	75.6	75.8	76.3
Apparel and other textile products.....	95.0	95.6	85.7	85.9	85.5
Paper and allied products.....	102.4	98.5	91.8	92.7	90.4
Printing and publishing.....	107.2	106.8	105.0	105.5	105.0
Chemical and allied products.....	103.4	100.6	94.3	94.9	93.2
Petroleum and coal products.....	107.4	103.4	98.8	101.9	101.7
Rubber and misc. plastics products.....	131.4	100.4	92.5	93.1	91.1
Leather and leather products.....	90.0	91.5	79.6	77.1	74.6
SERVICE-PRODUCING	112.5	112.5	113.9	112.5	112.1
TRANSPORTATION AND PUBLIC UTILITIES	106.1	105.5	102.0	102.1	101.5
WHOLESALE AND RETAIL TRADE	137.5	106.8	107.7	106.1	105.8
WHOLESALE TRADE	112.0	112.8	109.6	108.6	108.7
RETAIL TRADE	105.8	104.5	106.9	105.2	104.6
FINANCE, INSURANCE, AND REAL ESTATE	117.0	117.4	119.1	117.0	116.7
SERVICES	119.4	120.6	124.3	122.5	122.3

¹ 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 workers¹ on private nonagricultural payrolls by industry division and major manufacturing group—Continued

(1977=100)

Industry division and group	Sept. 1981	Oct. 1981	Aug. 1982	Sept. 1982P	Oct. 1982P
	Payrolls				
TOTAL PRIVATE	153.8	154.2	155.5	155.3	154.5
GOODS-PRODUCING	147.5	148.0	138.5	139.1	136.8
MINING	214.3	215.9	194.7	191.2	186.4
CONSTRUCTION	152.4	159.9	153.4	154.4	155.6
MANUFACTURING	142.4	140.8	129.8	131.8	128.8
DURABLE GOODS	141.2	140.6	124.2	125.7	122.7
Lumber and wood products.....	123.1	117.5	123.3	123.5	119.0
Furniture and fixtures.....	134.1	137.5	130.3	131.3	132.6
Stone, clay, and glass products.....	136.7	133.2	126.3	127.4	125.2
Primary metal industries.....	141.4	130.0	102.2	100.9	93.9
Fabricated metal products.....	136.0	135.9	121.7	122.8	120.4
Machinery, except electrical.....	157.2	158.5	128.5	129.9	123.4
Electric and electronic equipment.....	152.6	153.3	143.9	145.2	145.5
Transportation equipment.....	127.7	133.1	114.5	119.3	118.8
Instruments and related products.....	163.1	162.4	166.6	165.6	162.0
Miscellaneous manufacturing industries.....	130.7	132.6	122.6	125.4	126.5
NONDURABLE GOODS	144.3	141.1	139.8	142.7	139.7
Food and kindred products.....	149.5	142.6	150.5	154.0	146.5
Tobacco manufactures.....	177.2	170.4	164.1	172.1	172.5
Textile mill products.....	125.3	124.8	110.4	111.5	112.3
Apparel and other textile products.....	132.0	133.1	122.4	123.3	122.8
Paper and allied products.....	153.7	145.7	145.5	149.8	144.9
Printing and publishing.....	146.5	146.6	150.8	153.2	152.0
Chemicals and allied products.....	150.7	146.6	146.9	150.7	148.6
Petroleum and coal products.....	158.4	151.5	156.7	164.2	163.0
Rubber and misc. plastics products.....	142.8	141.6	136.7	139.8	136.3
Leather and leather products.....	127.0	129.2	117.6	115.3	112.0
SERVICE-PRODUCING	158.2	158.5	167.5	166.8	166.9
TRANSPORTATION AND PUBLIC UTILITIES	151.0	150.0	152.3	152.5	152.2
WHOLESALE AND RETAIL TRADE	151.8	150.0	156.6	155.4	155.1
WHOLESALE TRADE	159.8	161.8	165.0	164.1	164.5
RETAIL TRADE	147.5	143.6	152.2	150.7	150.1
FINANCE, INSURANCE, AND REAL ESTATE	164.6	166.2	180.0	177.6	177.9
SERVICES	167.4	170.5	184.3	184.2	184.9

ESTABLISHMENT DATA
SEASONALLY ADJUSTED HOURS

**C-6. Average weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls
by industry division and major manufacturing group, seasonally adjusted**

Industry	1981			1982									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. P	Oct. P
TOTAL PRIVATE	35.1	35.1	35.0	34.4	35.0	34.9	34.9	35.0	34.9	34.9	34.8	34.8	34.7
MINING	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
CONSTRUCTION	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MANUFACTURING	39.5	39.3	39.1	37.6	39.4	39.0	39.0	39.1	39.2	39.2	39.0	38.7	38.7
Overtime hours	2.7	2.5	2.4	2.3	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.3	2.2
DURABLE GOODS	40.0	39.7	39.5	38.2	39.8	39.5	39.5	39.6	39.7	39.7	39.4	38.9	38.9
Overtime hours	2.6	2.4	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.0	1.9
Lumber and wood products	37.8	37.7	37.7	35.0	37.9	37.6	37.6	38.5	38.7	38.6	38.2	38.3	37.9
Furniture and fixtures	38.0	37.6	37.9	33.6	37.7	37.3	37.4	37.5	37.8	37.6	37.9	37.5	37.7
Stone, clay, and glass products	40.1	40.1	39.7	38.6	40.1	40.0	40.2	40.4	40.6	40.6	40.3	40.1	40.2
Primary metal industries	40.0	39.6	39.2	38.3	39.4	38.8	38.5	38.5	38.9	38.9	38.8	37.9	37.6
Fabricated metal products	40.0	39.7	39.5	38.1	39.7	39.5	39.4	39.5	39.4	39.5	39.2	38.8	38.8
Machinery, except electrical	40.8	40.7	40.4	39.3	40.7	40.2	40.1	39.8	39.6	39.8	39.5	38.9	39.1
Electric and electronic equipment	39.8	39.4	39.5	38.3	39.8	39.4	39.3	39.4	39.5	39.8	39.3	38.8	38.9
Transportation equipment	40.6	40.4	39.7	39.0	40.5	40.4	41.1	41.1	41.6	41.0	40.5	39.8	39.7
Instruments and related products	40.3	40.2	39.9	39.0	39.9	39.9	39.9	40.2	40.2	40.1	40.1	39.7	39.3
Miscellaneous manufacturing ind	38.9	39.0	38.5	37.3	38.6	38.6	38.5	38.7	38.6	38.7	38.6	38.1	38.3
NONDURABLE GOODS	38.9	38.7	38.6	36.8	38.9	38.5	38.4	38.5	38.6	38.6	38.5	38.5	38.4
Overtime hours	2.8	2.7	2.6	2.5	2.6	2.5	2.6	2.5	2.5	2.6	2.6	2.6	2.6
Food and kindred products	39.5	39.5	39.8	39.1	40.2	39.5	39.4	39.4	39.5	39.5	39.1	39.4	39.5
Tobacco manufactures	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Textile mill products	39.0	38.7	37.8	32.3	38.3	37.6	37.7	37.9	37.8	37.7	38.2	38.1	38.0
Apparel and other textile products	35.5	35.5	35.1	31.4	35.5	35.0	34.7	34.8	35.1	35.2	35.0	35.2	34.9
Paper and allied products	42.4	42.0	41.8	41.3	42.3	41.8	42.1	41.8	42.0	41.9	41.7	41.5	41.4
Printing and publishing	37.1	37.1	37.1	36.9	37.4	37.1	37.1	36.8	37.1	37.0	36.8	36.9	36.9
Chemicals and allied products	41.5	41.2	41.3	41.0	41.2	40.7	40.7	41.0	41.0	40.9	40.9	41.2	40.8
Petroleum and coal products	42.2	42.5	42.7	44.3	43.5	43.5	44.0	44.1	44.1	43.3	43.9	43.4	43.5
Rubber and misc. plastics products	39.9	39.6	39.4	37.9	40.0	39.6	39.8	39.9	40.1	40.2	39.7	39.6	39.1
Leather and leather products	36.7	36.5	36.1	34.1	35.6	35.8	35.6	35.6	35.7	36.1	36.0	35.7	34.8
TRANSPORTATION AND PUBLIC UTILITIES	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
WHOLESALE AND RETAIL TRADE	32.0	32.1	32.0	31.7	32.0	31.9	31.8	32.0	31.9	31.9	31.9	32.1	32.1
WHOLESALE TRADE	38.4	38.5	38.4	38.1	38.5	38.4	38.3	38.5	38.6	38.5	38.5	39.4	38.3
RETAIL TRADE	29.9	30.0	29.9	29.7	29.9	29.8	29.8	30.0	29.8	29.9	29.9	30.1	30.2
FINANCE, INSURANCE, AND REAL ESTATE	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
SERVICES	32.6	32.6	32.6	32.5	32.6	32.6	32.7	32.7	32.7	32.6	32.6	32.8	32.7

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

p=preliminary.

² 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 workers¹ on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

(1977=100)

Industry division and group	1981			1982										P Oct. ²
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	P Oct. ²	
TOTAL PRIVATE	107.7	107.3	106.3	104.3	106.2	105.6	105.2	105.7	104.9	104.8	104.1	103.8	103.2	
GOODS-PRODUCING	99.7	98.4	96.3	91.4	95.6	93.9	93.0	93.3	91.9	91.4	90.0	88.7	87.2	
MINING	143.9	145.0	145.5	141.6	143.7	142.6	138.4	133.6	128.2	125.1	121.4	117.9	116.2	
CONSTRUCTION	106.1	106.9	104.2	96.8	102.9	101.1	100.9	104.5	101.0	101.9	100.5	98.2	97.3	
MANUFACTURING	96.4	94.6	92.5	88.0	91.9	90.3	89.3	89.2	88.4	87.8	86.5	85.4	83.9	
DURABLE GOODS	96.4	94.0	91.4	87.3	90.6	89.1	87.8	87.8	86.7	86.1	84.1	82.2	80.2	
Lumber and wood products	81.8	79.2	77.2	70.9	77.5	76.1	77.6	79.5	79.8	79.4	78.7	78.9	77.8	
Furniture and fixtures	95.9	93.1	92.6	80.9	90.0	88.3	87.8	88.1	88.5	87.3	89.0	87.8	87.0	
Stone, clay, and glass products	88.2	86.6	83.9	79.3	82.4	81.1	80.2	81.1	80.4	80.8	79.7	79.3	78.6	
Primary metal industries	88.6	85.4	81.9	78.5	79.7	77.1	73.6	71.0	70.1	68.4	67.0	64.0	61.3	
Fabricated metal products	94.2	91.6	89.3	85.1	88.1	87.0	85.8	85.5	84.0	83.9	82.0	80.5	78.6	
Machinery, except electrical	110.4	108.7	106.2	101.6	104.4	101.5	99.2	98.0	94.4	92.1	88.9	86.3	83.0	
Electric and electronic equipment	104.9	101.5	99.6	97.2	100.4	98.6	97.8	98.3	97.7	97.5	95.5	93.6	92.8	
Transportation equipment	87.6	85.4	80.7	78.3	81.8	81.7	81.4	82.3	82.6	83.1	79.4	77.1	74.3	
Instruments and related products	113.0	111.7	110.6	107.3	109.3	108.5	107.4	108.5	107.2	106.7	105.6	103.8	101.5	
Miscellaneous manufacturing ind	91.1	91.0	89.3	84.8	86.8	86.2	84.2	84.4	83.6	84.1	82.4	81.0	80.8	
NONDURABLE GOODS	96.5	95.4	94.1	89.0	93.8	92.0	91.5	91.4	91.0	90.3	90.0	90.2	89.4	
Food and kindred products	97.2	97.3	97.7	95.6	98.9	96.8	95.5	96.2	95.4	96.1	93.9	95.0	95.3	
Tobacco manufactures	96.1	94.6	92.1	93.6	94.6	93.6	89.6	88.7	91.6	89.8	90.7	88.1	87.6	
Textile mill products	85.8	83.9	80.7	67.7	79.9	76.5	78.0	77.0	74.8	74.7	75.2	75.2	75.1	
Apparel and other textile products	93.3	92.7	90.5	79.6	90.0	87.7	85.3	85.3	85.8	83.2	84.3	84.7	83.6	
Paper and allied products	98.3	96.6	95.2	93.7	95.4	93.9	94.0	92.8	92.5	92.2	91.4	91.7	90.2	
Printing and publishing	106.8	106.5	106.5	105.8	107.2	136.7	106.2	105.5	105.9	105.3	104.9	105.1	104.9	
Chemicals and allied products	100.9	99.5	98.9	97.6	97.6	96.4	95.3	95.7	94.9	94.0	94.3	94.9	93.5	
Petroleum and coal products	100.1	100.0	99.7	98.7	96.1	96.1	96.5	96.7	95.9	94.2	95.5	96.7	98.5	
Rubber and misc. plastics products	99.0	96.3	94.3	90.0	94.0	92.3	94.0	94.6	94.9	95.0	93.6	92.5	89.8	
Leather and leather products	90.1	88.3	85.1	79.1	79.5	79.5	78.1	78.4	77.0	78.1	76.2	72.9		
SERVICE-PRODUCING	112.1	112.2	111.8	111.4	112.1	112.0	111.9	112.5	112.1	112.2	111.8	112.2	112.0	
TRANSPORTATION AND PUBLIC UTILITIES	104.2	104.4	103.6	102.8	103.7	103.3	102.8	102.6	102.2	101.5	101.2	101.0	100.6	
WHOLESALE AND RETAIL TRADE	106.2	106.3	105.4	105.2	106.3	105.9	105.5	106.5	105.8	106.1	105.5	105.6	105.5	
WHOLESALE TRADE	111.6	111.8	111.0	109.7	110.7	110.2	109.5	110.3	110.0	109.6	109.0	108.5	107.8	
RETAIL TRADE	104.1	104.3	103.3	103.4	104.6	104.2	103.9	105.1	104.2	104.7	104.2	104.4	104.6	
FINANCE, INSURANCE, AND REAL ESTATE	117.6	117.4	117.4	116.9	116.8	117.1	117.0	117.9	117.4	117.4	117.2	117.2	116.9	
SERVICES	120.4	120.6	120.8	120.3	120.9	121.1	121.5	121.8	121.9	121.8	121.8	122.9	122.5	

¹ 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 workers¹ on private nonagricultural payrolls, seasonally adjusted

Industry	1981			1982										
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	P	Oct.	P
Hourly Earnings Index ² (1977=100)														
TOTAL PRIVATE (in current dollars)...	142.0	143.0	143.5	144.9	145.0	145.4	146.3	147.7	148.1	148.9	149.9	150.0	150.6	
MINING ³	151.4	153.4	153.4	156.2	156.0	156.0	156.5	156.8	159.6	161.3	161.5	163.2	161.9	
CONSTRUCTION.....	134.7	135.7	136.6	139.9	137.9	138.1	138.7	139.9	139.7	140.6	140.7	140.6	142.0	
MANUFACTURING.....	145.4	146.4	146.9	148.9	149.1	149.9	150.8	151.8	152.5	153.3	154.2	154.7	154.7	
TRANSPORTATION AND PUBLIC UTILITIES.....	142.3	143.5	144.3	145.5	146.0	146.3	146.9	148.2	149.1	148.9	150.3	149.6	151.1	
WHOLESALE AND RETAIL TRADE.....	140.5	141.3	141.7	142.1	142.5	142.8	143.7	145.1	145.2	145.7	146.5	146.7	147.3	
FINANCE, INSURANCE, AND REAL ESTATE.....	141.4	142.6	142.0	143.1	143.3	143.8	144.9	148.0	147.2	148.6	150.6	151.2	152.0	
SERVICES.....	140.9	142.2	142.6	143.4	143.7	143.9	145.1	146.5	147.3	148.7	149.7	149.6	150.3	
TOTAL PRIVATE (in 1977 dollars) ⁴	92.1	92.3	92.3	92.9	92.8	93.3	93.7	93.7	93.1	93.0	93.2	93.2	-	
Average hourly earnings														
TOTAL PRIVATE	\$7.40	\$7.45	\$7.46	\$7.52	\$7.53	\$7.54	\$7.59	\$7.65	\$7.67	\$7.71	\$7.74	\$7.72	\$7.75	
MINING.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
CONSTRUCTION.....	11.06	11.14	11.22	11.52	11.34	11.39	11.43	11.54	11.51	11.56	11.58	11.58	11.69	
MANUFACTURING.....	8.16	8.20	8.20	8.38	8.34	8.37	8.44	8.48	8.52	8.56	8.57	8.56	8.56	
TRANSPORTATION AND PUBLIC UTILITIES.....	9.89	9.97	10.02	10.09	10.13	10.15	10.18	10.24	10.30	10.30	10.40	10.35	10.43	
WHOLESALE AND RETAIL TRADE.....	6.03	6.06	6.08	6.09	6.10	6.12	6.16	6.20	6.22	6.23	6.26	6.25	6.29	
FINANCE, INSURANCE, AND REAL ESTATE.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	
SERVICES.....	6.58	6.63	6.65	6.71	6.72	6.72	6.80	6.85	6.90	6.96	7.00	7.01	7.02	
Average weekly earnings														
TOTAL PRIVATE:														
Current dollars.....	259.74	261.50	261.10	258.69	263.55	263.15	264.89	267.75	267.68	269.08	269.35	268.66	268.93	
1977 dollars ⁴	168.44	168.82	167.94	165.93	168.62	168.90	169.69	169.89	168.14	167.97	167.61	166.87	-	

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

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

³ The 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.

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

^a See footnote 2, table C-8.

p=preliminary.

C-9. Hours of wage and salary workers¹ in nonagricultural establishments by industry division

Industry division	Millions of hours (Annual rate) ²			Percent change		
	August R1982	September R1982	October P1982	Oct. 1981 to Oct. 1982	Aug. to Sept. 1982	Sept. 1982 to Oct. 1982
TOTAL	165,606	165,438	164,636	-3.0	-0.1	-0.5
PRIVATE SECTOR	135,139	134,842	134,028	-3.6	-0.2	-0.6
MINING	2,383	2,331	2,305	-16.4	-2.2	-1.1
CONSTRUCTION	7,468	7,293	7,299	-7.1	-2.3	0.1
MANUFACTURING	38,235	37,818	37,317	-10.0	-1.1	-1.3
DURABLE GOODS	22,693	22,300	21,887	-12.8	-1.7	-1.9
NONDURABLE GOODS	15,542	15,517	15,430	-5.7	-0.2	-0.6
TRANSPORTATION AND PUBLIC UTILITIES	10,222	10,201	10,154	-3.5	-0.2	-0.5
WHOLESALE AND RETAIL TRADE	34,382	34,431	34,363	-0.5	0.1	-0.2
FINANCE, INSURANCE, AND REAL ESTATE	10,121	10,125	10,060	0.2	0.0	-0.6
SERVICES	32,327	32,644	32,530	1.9	1.0	-0.3
GOVERNMENT	30,467	30,596	30,608	-0.1	0.4	0.0

¹ Data refer to hours of all employees—production workers, nonsupervisory workers and salaried workers—and are based largely on establishment data. See BLS Handbook of Methods for Surveys and Studies, BLS Bulletin 1910—Chapter 30, Productivity Measures: Private Economy and Major Sectors.

² "Annual rate" refers to total hours paid for 1 week in the month, expressed as a seasonally adjusted annual equivalent.

PRODUCTIVITY SEASONALLY ADJUSTED

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

(1977=100)

Item	Annual average		Quarterly indexes											
			1980				1981				1982			
	1980	1981	I	II	III	IV	I	II	III	IV	I	II	III	
BUSINESS SECTOR:														
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	p101.3	
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	p106.8	
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	p105.4	
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	p155.7	
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	p96.8	
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	p153.7	
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	p140.8	
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	p149.3	
NONFARM BUSINESS SECTOR:														
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	r99.4	p100.3	
Output	106.3	108.6	107.9	104.6	105.3	107.3	109.2	109.0	109.1	107.1	106.0	r106.1	p106.3	
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	p106.0	
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	r152.7	p155.1	
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	p96.4	
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	r153.5	p154.6	
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	r137.2	p140.9	
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	r148.1	p150.1	
MANUFACTURING:														
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	r102.3	p104.1	
Output	103.6	105.9	107.8	101.6	99.9	105.0	106.7	107.5	107.4	102.0	98.2	r97.0	p96.5	
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	p92.7	
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	r157.6	p160.1	
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	p99.5	
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	r154.0	p153.8	
DURABLE GOODS														
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	r100.5	p102.1	
Output	103.5	106.1	108.9	101.4	98.8	104.9	107.0	108.2	107.8	101.6	96.8	r95.2	p93.9	
Hours	103.2	102.6	107.6	102.2	100.4	102.7	102.7	104.0	103.9	100.0	96.5	r94.7	p92.0	
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	p160.7	
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	p99.9	
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	r156.9	p157.4	
NONDURABLE GOODS														
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	r105.1	p107.1	
Output	103.7	105.6	106.2	101.8	101.5	105.1	106.4	106.5	106.9	102.6	100.4	r99.6	p100.4	
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	p93.7	
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	p159.4	
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	p99.0	
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	r150.0	p148.8	
NONFINANCIAL CORPORATIONS:														
Output per all-employee hour	100.8	102.7	100.8	99.8	101.1	101.7	102.8	102.7	102.8	102.2	102.3	r103.1	N.A.	
Output	108.1	110.7	109.8	106.5	107.1	109.0	111.0	111.1	111.5	109.4	107.9	r107.8	N.A.	
Hours	107.2	107.9	109.0	106.6	105.9	107.2	107.9	108.1	108.5	107.0	105.4	104.6	N.A.	
Compensation per hour	131.6	144.4	126.8	130.0	133.4	136.3	140.4	142.7	145.7	148.6	151.7	154.1	N.A.	
Real compensation per hour	96.8	96.2	97.0	96.4	97.1	96.3	96.5	96.5	95.8	95.9	97.1	97.5	N.A.	
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	r153.8	N.A.	
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	r149.5	N.A.	
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	r166.0	N.A.	
Unit profits	87.9	101.6	91.1	81.9	87.8	90.5	104.7	98.8	105.2	97.6	86.1	r82.3	N.A.	
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	r145.6	N.A.	

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 to 1981 III	1981 II to 1981 III	1981 III to 1981 IV	1981 IV to 1982 I	1982 I to 1982 II	1982 II to 1982 III	1980 II to 1981 II	1980 III to 1981 III	1980 IV to 1981 IV	1981 I to 1982 I	1981 II to 1982 II	1981 III to 1982 III				
	1981 III	1981 III	1981 IV	1982 I	1982 II	1982 III	1981 II	1981 III	1981 IV	1982 I	1982 II	1982 III				
BUSINESS SECTOR:																
Output per hour of all persons	0.0	1.1	-2.9	-1.0	r1.4	p4.0	2.5	2.2	0.9	-0.7	-0.4	p0.3				
Output	-0.1	1.9	-6.4	-5.5	r0.6	p1.4	4.1	4.1	0.7	-2.6	r-2.4	p-2.5				
Hours	-0.1	0.8	-3.6	-4.5	-0.8	r-2.5	1.6	1.9	-0.2	-1.9	2.1	p-2.9				
Compensation per hour	7.5	9.0	7.4	7.3	6.9	p6.2	9.7	9.4	8.9	7.8	7.6	p6.9				
Real compensation per hour	0.5	-2.6	-0.4	3.9	2.2	p-1.3	-0.1	-1.3	-0.6	0.3	r0.8	p1.1				
Unit labor costs	7.5	7.8	10.6	8.4	r5.5	p2.1	6.9	7.1	7.9	8.6	8.1	p6.6				
Unit nonlabor payments	4.9	12.5	2.9	-5.4	r1.7	p11.5	14.8	13.9	11.0	3.5	r2.7	p2.5				
Implicit price deflator	6.6	9.3	8.0	3.8	r4.3	p5.0	9.4	9.2	8.9	6.9	r6.3	p5.2				
NONFARM BUSINESS SECTOR:																
Output per hour of all persons	-1.3	-0.3	-3.5	0.6	r0.8	p3.6	2.5	1.6	-0.1	-1.1	r-0.6	p0.3				
Output	-0.8	0.3	-7.1	-4.2	r0.6	p0.7	4.2	3.6	-0.2	-3.0	r-2.6	p-2.5				
Hours	0.5	0.6	-3.7	-4.7	-0.1	r-2.8	1.6	2.0	-0.1	-1.9	-2.0	p-2.9				
Compensation per hour	7.1	9.0	7.3	7.7	r6.1	p6.6	9.8	9.4	8.8	7.8	7.5	p6.9				
Real compensation per hour	0.1	-2.6	-0.5	4.3	1.4	p-0.9	0.0	-1.2	-0.6	0.3	0.6	p1.1				
Unit labor costs	8.6	9.3	11.2	7.1	r5.2	p2.9	7.1	7.7	8.9	9.0	r8.2	p6.6				
Unit nonlabor payments	4.0	12.1	5.1	-4.6	r1.3	p11.3	13.8	13.6	11.2	4.0	r3.3	p3.1				
Implicit price deflator	7.1	10.2	9.2	3.3	r4.0	p5.5	9.2	9.6	9.6	7.4	r6.6	p5.5				
MANUFACTURING:																
Output per hour of all persons	-0.7	-0.1	-8.2	-2.4	r0.8	p7.1	4.5	4.7	-0.8	-2.9	r-2.5	p-0.8				
Output	2.8	-0.4	-18.7	-13.8	r-5.1	p-1.9	5.8	7.5	-2.9	-8.0	r-9.8	p-10.1				
Hours	3.6	-0.3	-11.4	-11.7	r-5.9	p-8.5	1.2	2.7	-2.1	-5.2	-7.4	p-9.4				
Compensation per hour	6.6	6.8	9.6	11.1	7.8	p6.5	10.7	8.9	8.9	8.5	8.8	p8.7				
Real compensation per hour	-0.4	-4.6	1.6	7.6	3.1	p-1.1	0.9	-1.7	-0.6	1.0	1.8	p2.8				
Unit labor costs	7.3	6.8	19.4	13.9	r6.9	p-0.6	5.9	4.0	9.8	11.7	r11.6	p9.6				
DURABLE GOODS																
Output per hour of all persons	-0.7	-1.3	-8.0	-4.9	r0.9	p6.4	4.8	5.4	-0.6	-3.8	r-3.4	p-1.5				
Output	4.5	-1.6	-21.1	-17.5	r-6.4	p-5.5	6.7	9.1	-3.2	-9.5	-12.0	p-12.9				
Hours	5.3	-0.3	-14.2	-13.2	r-7.2	p-11.2	1.8	3.5	-2.6	-6.0	-8.9	p-11.5				
Compensation per hour	5.7	6.9	10.9	10.3	7.7	p8.0	11.0	9.0	9.1	8.4	8.9	p9.2				
Real compensation per hour	-1.2	-4.5	2.9	6.8	2.9	p0.4	1.1	-1.6	-0.4	0.9	1.9	p3.2				
Unit labor costs	6.5	8.3	20.5	15.9	r6.7	p1.5	5.9	3.4	9.7	12.7	r12.7	p10.9				
NONDURABLE GOODS																
Output per hour of all persons	-0.7	1.8	-8.8	1.1	r0.7	p7.9	4.2	3.7	-1.1	-1.7	r-1.4	p0.1				
Output	0.3	1.4	-15.1	-8.3	r-3.2	p3.3	4.6	5.3	-2.4	-5.6	r-6.5	p-6.1				
Hours	1.0	-0.4	-6.9	-9.3	r-3.9	p-4.3	0.4	1.5	-1.2	-4.0	-5.2	p-6.1				
Compensation per hour	7.6	6.5	8.2	13.2	r8.5	p4.7	10.0	8.4	8.7	8.8	9.1	p8.6				
Real compensation per hour	0.6	-4.8	0.3	9.6	3.8	p-2.7	0.2	-2.2	-0.7	1.3	2.1	p2.7				
Unit labor costs	8.3	4.6	18.5	12.0	r7.8	p-3.0	5.6	4.5	10.0	10.8	r10.6	p8.5				
NONFINANCIAL CORPORATIONS:																
Output per all-employee hour	-0.4	0.3	-2.3	0.5	r2.9	N.A.	2.9	1.7	0.6	-0.5	r0.3	N.A.				
Output	0.6	1.5	-7.5	-5.2	r-0.4	N.A.	4.4	4.1	0.3	-2.7	r-3.0	N.A.				
Hours	0.9	1.2	-5.3	-5.7	-3.2	N.A.	1.4	2.4	-0.2	-2.3	-3.3	N.A.				
Compensation per hour	6.9	8.5	8.3	8.6	6.4	N.A.	9.8	9.2	9.0	8.1	8.0	N.A.				
Real compensation per hour	-0.1	-3.0	0.5	5.2	1.7	N.A.	0.1	-1.4	-0.5	0.6	1.0	N.A.				
Total unit costs	10.2	8.6	12.8	7.4	r5.4	N.A.	8.7	8.9	9.8	9.7	r8.5	N.A.				
Unit labor costs	7.3	8.2	10.9	8.1	r3.4	N.A.	6.7	7.5	8.4	8.6	r7.6	N.A.				
Unit nonlabor costs	18.5	9.8	17.8	5.7	r10.7	N.A.	14.2	12.9	13.4	12.8	r10.9	N.A.				
Unit profits	-20.8	28.4	-25.9	-39.4	r-16.7	N.A.	20.7	19.7	7.9	-17.8	r-16.7	N.A.				
Implicit price deflator	7.1	10.2	8.9	3.0	r3.8	N.A.	9.6	9.7	9.6	7.3	r6.4	N.A.				

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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		
	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P
ALABAMA	\$285.84	\$287.28	\$285.12	39.7	39.9	39.6	\$7.20	\$7.20	\$7.20
Birmingham	316.00	301.09	310.78	39.5	38.8	40.1	7.76	7.76	7.75
Mobile	385.33	384.89	(*)	41.3	40.6	(*)	9.33	9.48	(*)
ALASKA	417.97	502.78	(*)	34.6	49.1	(*)	12.08	10.24	(*)
ARIZONA	323.36	345.32	345.33	39.1	38.8	38.2	8.27	8.90	9.04
ARKANSAS	254.32	260.35	262.58	39.8	38.8	38.9	6.39	6.71	6.75
Fayetteville—Springdale	232.97	239.34	232.26	40.8	39.3	38.2	5.71	6.09	6.08
Fort Smith	250.78	258.22	256.73	38.7	37.1	37.1	6.48	6.96	6.92
Little Rock—North Little Rock	292.58	308.43	297.86	40.3	39.9	39.4	7.26	7.73	7.56
Pine Bluff	333.94	356.17	372.81	41.9	40.2	40.7	7.97	8.86	9.16
CALIFORNIA	345.54	367.46	366.21	39.0	39.3	39.0	8.86	9.35	9.39
COLORADO	321.93	337.33	341.35	39.8	39.5	39.6	8.34	8.54	8.62
Denver—Boulder	329.11	344.36	352.23	39.7	39.4	39.8	8.29	8.74	8.85
CONNECTICUT	317.34	331.60	334.43	41.0	40.0	40.1	7.74	8.29	8.34
Bridgeport	339.58	350.92	352.00	42.5	40.9	40.6	7.99	8.58	8.67
Hartford	332.51	355.29	356.48	40.6	40.1	40.3	8.19	8.86	8.92
New Britain	324.90	340.98	342.50	41.6	40.4	40.2	7.81	8.44	8.52
New Haven—West Haven	302.04	319.48	319.87	39.9	39.2	39.2	7.57	8.15	8.16
Stamford	292.98	303.34	315.99	40.3	39.6	40.1	7.27	7.66	7.88
Waterbury	269.93	284.78	283.11	41.4	40.8	40.1	6.52	6.98	7.06
DELAWARE	326.37	332.13	334.85	38.9	38.8	38.4	8.39	8.56	8.72
Wilmington	374.60	398.86	389.39	37.8	38.5	36.7	9.91	10.36	10.61
DISTRICT OF COLUMBIA:									
Washington SMSA	352.41	358.27	373.12	39.2	38.4	39.4	8.99	9.33	9.47
FLORIDA	268.93	276.19	278.58	39.9	38.9	38.8	6.74	7.10	7.18
Fort Lauderdale—Hollywood	252.63	270.75	263.41	40.1	39.7	37.9	6.30	6.82	6.95
Jacksonville	319.96	313.53	314.24	42.1	38.9	38.7	7.60	8.06	8.12
Lakeland—Winter Haven	299.52	301.68	308.39	41.2	39.8	40.9	7.27	7.58	7.54
Miami	230.93	230.02	229.82	40.8	38.4	37.8	5.66	5.99	6.08
Orlando	255.80	315.70	312.89	42.5	41.0	40.9	6.96	7.70	7.65
Pensacola	335.62	327.41	326.98	42.7	39.4	39.3	7.86	8.31	8.32
Tampa—St. Petersburg	263.86	277.49	285.42	39.5	40.1	40.6	6.68	6.92	7.03
West Palm Beach—Boca Raton	285.93	291.61	307.98	40.5	39.3	40.9	7.06	7.42	7.53
GEORGIA	259.05	263.42	265.67	40.1	39.2	39.3	6.46	6.72	6.76
Atlanta	304.00	305.05	299.77	40.0	37.8	37.1	7.60	8.07	8.08
Savannah	370.92	373.12	392.93	44.0	42.4	44.6	8.43	8.80	8.81
HAWAII	252.35	291.40	314.19	37.1	37.6	37.9	7.88	7.75	8.29
Honolulu	290.04	283.73	311.54	36.3	36.8	37.4	7.99	7.71	8.33
IDAHO ¹	322.64	340.43	337.94	39.6	37.7	37.3	8.40	9.03	9.06
Boise City	297.65	305.40	321.10	39.9	37.9	38.0	7.46	8.05	8.45
ILLINOIS	361.89	371.70	370.83	39.9	39.5	39.2	9.07	9.41	9.46
Bloomington—Normal	338.00	338.63	334.50	40.0	38.7	37.5	8.45	8.75	8.92
Champaign—Urbana—Rantoul	334.06	331.36	344.08	40.2	38.0	39.1	8.31	8.72	8.80
Chicago SMSA	329.73	357.90	358.27	39.3	39.2	38.9	8.39	9.13	9.21
Davenport—Rock Island—Moline	453.93	449.92	447.70	40.1	37.4	37.0	11.32	12.03	12.10
Decatur	440.99	452.18	464.07	40.2	39.7	39.8	10.97	11.39	11.66
Kankakee	299.30	310.58	305.70	37.6	37.6	37.1	7.96	8.26	8.24
Peoria	477.10	479.81	474.00	39.3	37.9	37.5	12.14	12.66	12.64
Rockford	368.45	378.28	388.65	40.4	40.2	40.4	9.12	9.41	9.62
Springfield	413.24	449.90	455.67	41.2	41.2	41.5	10.03	10.92	10.98
INDIANA	383.25	383.77	385.93	40.3	39.2	39.3	9.51	9.79	9.82
Gary—Hammond—East Chicago	540.47	508.95	(*)	41.8	37.7	(*)	12.93	13.50	(*)
Indianapolis	386.63	382.08	(*)	41.0	39.8	(*)	9.43	9.60	(*)
IOWA	386.71	380.85	401.56	39.5	38.2	39.1	9.79	9.97	10.27
Cedar Rapids	393.73	385.14	402.59	40.3	39.1	39.9	9.77	9.85	10.09
Des Moines	409.64	424.27	458.61	39.2	39.8	40.3	10.45	10.66	11.38

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		
	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P
IOWA—Continued									
Dubuque	\$408.48	\$415.94	\$421.76	36.8	38.8	38.8	\$11.10	\$10.72	\$10.87
Sioux City	286.89	353.13	384.09	37.6	39.5	41.3	7.63	8.94	9.30
Waterloo—Cedar Falls	455.48	479.50	496.13	38.8	36.8	37.5	12.77	13.03	13.23
KANSAS	331.20	349.84	355.32	40.0	39.8	39.7	8.28	8.79	8.95
Topeka	372.65	331.01	366.83	40.2	38.4	39.7	9.27	8.62	9.24
Wichita	359.38	392.35	386.80	40.7	40.2	40.0	8.83	9.76	9.67
KENTUCKY	313.95	321.86	322.87	39.0	38.5	38.3	8.05	8.36	8.43
Lexington—Fayette	320.54	377.46	379.73	38.9	40.5	40.7	8.24	9.32	9.33
Louisville	382.45	379.64	392.44	40.3	39.3	39.6	9.49	9.66	9.91
LOUISIANA	371.00	375.65	383.33	42.4	39.5	39.6	8.75	9.51	9.68
Baton Rouge	468.78	466.02	458.20	42.5	40.7	39.5	11.03	11.45	11.60
New Orleans	347.79	354.92	349.87	40.3	38.0	37.3	8.63	9.34	9.38
Shreveport	336.84	341.42	346.33	42.0	39.7	39.9	8.02	8.60	8.68
MAINE	276.98	291.13	298.75	40.2	40.1	40.1	6.89	7.26	7.45
Lewiston—Auburn	209.24	225.55	229.36	37.1	38.1	38.1	5.64	5.92	6.02
Portland	249.66	278.36	280.74	38.0	38.5	38.3	6.57	7.23	7.33
MARYLAND	345.31	336.57	343.59	39.6	39.0	39.0	8.72	8.63	8.81
Baltimore	367.84	364.05	370.40	40.6	39.7	39.7	9.06	9.17	9.33
MASSACHUSETTS	279.27	300.29	299.93	39.5	39.1	38.7	7.07	7.68	7.75
Boston	300.62	320.69	326.17	39.4	39.3	38.6	7.63	8.16	8.45
Brockton	228.34	239.51	239.15	39.1	37.6	37.9	5.84	6.37	6.31
Fall River	213.53	213.89	210.02	37.2	36.5	35.9	5.74	5.86	5.85
Lawrence—Haverhill	257.60	308.50	307.68	40.0	39.4	38.8	7.44	7.83	7.93
Lowell	263.86	248.29	259.91	40.1	36.3	36.3	6.58	6.84	7.16
New Bedford	234.62	250.56	259.82	37.3	36.0	37.6	6.29	6.96	6.91
Springfield—Chicopee—Holyoke	289.87	307.60	306.88	41.0	40.0	39.7	7.07	7.69	7.73
Worcester	291.56	299.52	300.67	39.4	38.4	38.4	7.40	7.80	7.83
MICHIGAN	413.31	449.13	432.56	38.6	40.1	38.2	10.70	11.21	11.34
Ann Arbor	472.89	461.45	485.77	41.9	39.2	39.7	11.28	11.77	12.25
Battle Creek	445.74	468.78	443.88	41.1	39.9	37.7	10.84	11.76	11.79
Bay City	377.49	388.09	405.92	40.5	40.1	41.9	9.33	9.69	9.70
Detroit	450.11	479.25	472.60	39.6	40.7	39.8	11.35	11.76	11.88
Flint	437.65	532.78	465.58	35.3	40.2	35.2	12.38	13.26	13.23
Grand Rapids	338.38	367.38	355.49	38.3	39.2	37.5	8.84	9.37	9.48
Jackson	402.73	409.81	378.74	42.2	41.3	38.6	9.55	9.92	9.81
Kalamazoo—Portage	374.12	409.36	391.22	37.8	39.8	38.0	9.89	10.30	10.30
Lansing—East Lansing	462.80	469.48	423.79	36.7	39.3	34.2	12.62	11.95	12.38
Muskegon—Norton Shores—Muskegon Heights	354.87	383.28	368.96	38.9	39.7	38.2	9.13	9.66	9.67
Saginaw	437.93	507.17	472.89	35.9	39.4	36.1	12.19	12.88	13.11
MINNESOTA	331.63	352.94	353.21	39.2	38.7	38.9	8.46	9.12	9.08
Duluth—Superior	353.38	336.91	339.95	40.9	34.1	34.2	8.64	9.88	9.94
Minneapolis—St. Paul	353.70	375.96	377.10	39.3	39.0	39.2	9.00	9.64	9.62
St. Cloud	253.92	262.74	267.72	34.5	33.3	34.5	7.36	7.89	7.76
MISSISSIPPI	238.94	250.38	248.58	39.3	39.0	38.6	6.08	6.42	6.44
Jackson	262.10	273.34	278.78	40.2	39.5	39.6	6.52	6.92	7.04
MISSOURI	311.22	324.02	325.46	39.0	38.3	38.2	7.98	8.46	8.52
Kansas City	351.74	356.64	363.85	39.3	37.9	38.3	8.95	9.41	9.50
St. Joseph	276.57	300.61	299.06	38.2	38.1	38.0	7.24	7.89	7.87
St. Louis	360.50	376.75	373.81	39.1	38.8	38.3	9.22	9.71	9.76
Springfield	292.58	295.18	297.21	40.3	39.2	38.8	7.26	7.53	7.66
MONTANA	364.59	406.81	398.38	39.5	40.6	40.2	9.23	10.02	9.91
NEBRASKA	330.30	333.78	345.47	40.0	39.5	40.5	8.25	8.45	8.53
Lincoln	306.05	318.82	346.33	38.4	38.0	39.9	7.97	8.39	8.68
Omaha	343.76	355.67	361.42	40.3	39.3	39.2	8.53	9.05	9.22
NEVADA	346.23	337.69	328.19	38.3	38.2	37.0	9.04	8.84	8.87
Las Vegas	470.60	414.26	(*)	41.1	38.5	(*)	11.45	10.76	(*)

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		
	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P
NEW HAMPSHIRE	\$257.94	\$276.80	\$275.97	39.5	39.6	39.2	\$6.53	\$6.99	\$7.04
Manchester	237.16	261.60	268.11	38.5	40.0	40.5	6.16	6.54	6.62
Nashua	288.29	311.59	314.34	39.6	38.9	39.0	7.28	8.01	8.06
NEW JERSEY	330.44	343.08	348.00	40.5	39.8	40.0	8.15	8.62	8.70
Atlantic City	275.94	266.26	264.41	40.2	38.7	38.6	6.86	6.88	6.85
Camden	320.90	346.63	354.64	39.0	38.6	39.1	8.22	8.98	9.07
Hackensack	291.95	302.94	305.74	40.6	39.6	39.4	7.19	7.65	7.76
Jersey City	307.67	325.91	336.07	39.8	39.6	40.2	7.73	8.23	8.36
New Brunswick—Perth Amboy—Sayreville ³	404.89	395.20	397.94	43.1	40.7	40.4	9.39	9.71	9.85
Newark ³	336.59	345.93	351.35	40.9	39.4	39.7	8.23	8.78	8.85
Paterson—Clifton—Passaic ³	311.43	314.38	316.57	41.0	39.2	38.7	7.59	8.02	8.18
Trenton	320.02	347.11	333.98	38.6	39.4	38.7	8.29	8.81	8.63
NEW MEXICO	262.02	266.17	268.93	37.7	38.8	38.2	6.95	6.86	7.04
Albuquerque	268.97	278.48	312.86	38.7	38.2	38.2	6.95	7.29	8.19
NEW YORK	310.07	320.44	324.24	39.2	38.7	38.6	7.91	8.28	8.40
Albany—Schenectady—Troy	336.10	346.98	347.90	40.3	39.7	39.4	8.34	8.74	8.83
Binghamton	295.60	291.60	297.60	41.4	40.0	40.0	7.14	7.29	7.44
Buffalo	408.03	419.89	423.55	40.2	39.8	39.4	10.15	10.55	10.75
Elmira	312.73	345.46	339.55	40.3	39.8	39.3	7.76	8.68	8.64
Monroe County ⁴	417.38	439.56	442.13	40.8	40.7	40.6	10.23	10.80	10.89
Nassau—Suffolk ⁴	300.45	319.16	325.51	39.9	39.5	39.6	7.53	8.08	8.22
New York—Northeastern New Jersey	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
New York and Nassau—Suffolk ³	266.46	281.23	286.04	37.6	37.2	37.1	7.14	7.56	7.71
New York SMSA ⁵	259.04	270.10	275.18	36.9	36.5	36.4	7.02	7.40	7.56
New York City ⁶	255.76	267.89	270.05	36.8	36.3	36.2	6.95	7.38	7.46
Poughkeepsie	330.24	338.48	330.54	43.0	42.9	42.0	7.68	7.89	7.87
Rochester	387.32	413.71	413.70	40.6	40.6	40.4	9.54	10.19	10.24
Rockland County ⁶	306.48	332.02	330.40	39.7	39.2	39.1	7.72	8.47	8.45
Syracuse	343.54	345.71	362.60	40.8	39.6	40.2	8.42	8.73	9.02
Utica—Rome	296.91	313.62	296.32	39.8	39.8	37.7	7.46	7.88	7.86
Westchester County ⁶	276.40	267.04	300.44	37.1	37.4	37.0	7.45	7.14	8.12
NORTH CAROLINA	234.30	241.81	242.44	38.6	38.2	38.0	6.07	6.33	6.38
Asheville	234.23	241.86	242.35	39.7	39.2	38.9	5.90	6.17	6.23
Charlotte—Gastonia	232.20	246.24	241.42	38.7	38.9	38.2	6.00	6.33	6.32
Greensboro—Winston-Salem—High Point	256.36	268.13	265.27	37.7	37.5	37.1	6.80	7.15	7.15
Raleigh—Durham	269.49	290.03	294.78	39.0	39.3	39.2	6.91	7.38	7.52
NORTH DAKOTA	273.33	287.21	287.27	37.7	37.3	37.7	7.25	7.70	7.62
Fargo—Moorhead	285.00	300.17	304.18	38.0	37.9	38.7	7.50	7.92	7.86
OHIO	396.88	404.40	410.25	41.0	40.0	40.3	9.68	10.11	10.18
Akron	393.31	393.56	408.04	40.8	40.2	41.3	9.64	9.79	9.88
Canton	399.40	398.09	404.82	40.1	38.5	39.0	9.96	10.34	10.38
Cincinnati	367.92	390.72	388.65	41.2	40.7	40.4	8.93	9.60	9.62
Cleveland	400.41	408.22	408.35	40.9	40.1	39.8	9.79	10.18	10.26
Columbus	354.40	372.24	377.20	40.0	39.6	40.0	8.86	9.40	9.43
Dayton	396.58	405.42	406.21	40.8	40.3	40.1	9.72	10.06	10.13
Toledo	421.41	451.67	449.45	41.6	41.4	41.5	10.13	10.91	10.83
Youngstown—Warren	485.14	441.16	468.83	41.5	37.9	39.9	11.69	11.64	11.75
OKLAHOMA	321.79	343.78	344.36	39.1	39.2	39.4	8.23	8.77	8.74
Oklahoma City	307.82	352.43	350.49	36.3	38.1	38.9	8.48	9.25	9.01
Tulsa	358.83	373.44	384.12	40.5	38.9	39.6	8.86	9.60	9.70
OREGON	361.96	378.48	395.30	37.2	38.0	39.1	9.73	9.96	10.11
Eugene—Springfield	356.85	405.41	406.36	35.9	38.5	39.3	9.94	10.53	10.34
Jackson County	346.50	371.78	(*)	37.5	39.3	(*)	9.24	9.46	(*)
Portland	385.92	384.31	(*)	39.1	37.9	(*)	9.87	10.14	(*)
Salem	288.99	270.23	(*)	33.8	34.6	(*)	8.48	7.81	(*)
PENNSYLVANIA	331.63	329.67	328.21	39.2	38.2	37.9	8.46	8.63	8.66
Allentown—Bethlehem—Easton	343.27	329.88	324.75	38.7	37.7	37.5	8.87	8.75	8.66
Altoona	270.27	284.13	284.48	37.8	38.5	38.6	7.15	7.38	7.37
Delaware Valley ⁷	336.08	344.32	344.81	39.4	38.3	38.1	8.53	8.99	9.05
Erie	356.24	359.72	370.52	40.9	39.4	40.1	8.71	9.13	9.24
Harrisburg	304.19	333.20	309.64	39.2	39.2	37.9	7.76	8.50	8.17
Johnstown	328.59	286.65	297.85	37.9	33.1	35.0	8.67	8.66	8.51

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		
	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P
PENNSYLVANIA—Continued									
Lancaster	\$285.53	\$299.52	\$298.72	38.9	38.4	38.2	\$7.34	\$7.80	\$7.82
Northeast Pennsylvania	236.80	254.70	255.53	36.6	36.7	36.4	6.47	6.94	7.02
Philadelphia SMSA	336.63	345.22	346.62	39.6	38.4	38.3	8.50	8.99	9.05
Pittsburgh	417.77	399.00	395.49	40.6	37.5	37.1	10.29	10.64	10.66
Reading	308.49	316.01	307.10	39.0	37.8	37.0	7.91	8.36	8.30
Williamsport	301.07	313.23	315.95	39.1	39.7	39.2	7.70	7.89	8.06
York	310.49	315.19	320.39	40.8	40.1	40.3	7.61	7.86	7.95
RHODE ISLAND									
Providence—Warwick—Pawtucket	242.48	251.17	252.22	39.3	37.6	38.1	6.17	6.68	6.62
241.30	246.28	251.94	39.3	37.6	38.7	6.14	6.55	6.51	
SOUTH CAROLINA									
Charleston—North Charleston	251.46	260.74	259.00	39.6	38.8	38.2	6.35	6.72	6.78
268.10	286.52	291.04	38.3	38.0	38.6	7.00	7.54	7.54	
Columbia	240.40	250.64	248.90	38.9	38.5	38.0	6.18	6.51	6.55
Greenville—Spartanburg	254.97	243.08	248.32	40.6	38.1	38.5	6.28	6.38	6.45
SOUTH DAKOTA									
Sioux Falls	303.68	321.14	273.51	41.6	42.2	38.2	7.30	7.61	7.16
421.86	458.35	319.92	44.5	48.4	36.9	9.48	9.47	8.67	
TENNESSEE									
Chattanooga	273.93	281.00	284.47	39.7	39.3	39.4	6.90	7.15	7.22
267.45	269.97	276.90	40.4	38.9	39.0	6.62	6.94	7.10	
Knoxville	310.45	320.66	326.09	39.7	39.2	39.1	7.82	8.18	8.34
Memphis	310.90	301.41	303.42	40.8	39.4	39.0	7.62	7.65	7.78
Nashville—Davidson	311.33	318.80	317.20	41.4	40.1	39.7	7.52	7.95	7.99
TEXAS									
Dallas—Fort Worth	336.17	345.32	348.53	41.4	40.2	40.2	8.12	8.59	8.67
312.29	328.80	328.72	40.4	40.0	39.7	7.73	8.22	8.28	
Houston	431.87	422.84	436.60	43.8	41.7	41.7	9.86	10.14	10.47
San Antonio	240.40	243.59	244.86	40.2	39.1	38.5	5.98	6.23	6.36
UTAH									
Salt Lake City—Ogden	323.21	324.61	326.14	40.3	38.1	38.1	8.02	8.52	8.56
309.91	322.63	325.20	40.3	38.5	38.9	7.69	8.38	8.36	
VERMONT									
Burlington	277.60	294.36	292.47	39.8	39.3	39.1	6.98	7.49	7.48
312.42	333.33	340.29	41.6	40.7	40.9	7.51	8.19	8.32	
Springfield	307.69	309.29	299.12	40.7	39.2	38.3	7.56	7.89	7.81
VIRGINIA									
Bristol	279.97	284.79	290.19	39.6	38.8	38.9	7.07	7.34	7.46
233.98	245.76	246.09	37.8	38.4	37.4	6.19	6.40	6.58	
Lynchburg	272.28	271.10	271.52	40.1	38.4	38.9	6.79	7.06	6.98
Norfolk—Virginia Beach—Portsmouth	304.50	320.19	316.65	42.0	41.8	41.5	7.25	7.66	7.63
Northern Virginia ^a	303.24	318.80	322.39	39.9	39.9	40.4	7.60	7.99	7.98
Petersburg—Colonial Heights—Hopewell	365.40	378.50	386.72	40.6	38.9	40.2	9.00	9.73	9.62
Richmond	358.99	358.94	362.70	40.2	39.1	39.0	8.93	9.18	9.30
Roanoke	255.27	251.13	264.26	39.7	39.3	39.5	6.43	6.39	6.69
WASHINGTON									
Seattle—Everett	406.98	(*)	(*)	38.0	(*)	(*)	10.71	(*)	(*)
426.66	(*)	(*)	(*)	39.0	(*)	(*)	10.94	(*)	(*)
WEST VIRGINIA									
Charleston	352.56	357.38	363.28	38.7	38.1	38.2	9.11	9.38	9.51
442.37	435.72	452.09	43.2	41.3	41.4	10.24	10.55	10.92	
Huntington—Ashland	396.17	392.77	392.70	38.5	36.2	35.7	10.29	10.85	11.00
Parkersburg—Marietta	367.24	423.30	404.82	40.4	41.5	39.0	9.09	10.20	10.38
Wheeling	386.61	389.04	389.16	38.7	37.3	37.6	9.99	10.43	10.35
WISCONSIN									
Appleton—Oshkosh	355.75	364.21	370.55	40.1	39.4	39.7	8.88	9.23	9.33
360.66	359.85	363.53	42.0	40.5	41.2	8.59	8.89	8.83	
Eau Claire	354.77	357.39	364.04	40.8	40.0	40.2	8.69	8.94	9.06
Green Bay	381.24	397.61	419.56	42.6	42.5	43.5	8.95	9.35	9.65
Janesville—Beloit	363.23	353.66	383.17	39.1	39.1	38.7	9.28	9.05	9.89
Kenosha	425.70	492.20	466.16	39.6	41.8	40.7	10.75	11.79	11.45
La Crosse	315.48	330.80	331.86	40.2	38.2	39.0	7.84	8.66	8.50
Madison	345.57	347.26	352.56	40.0	38.9	38.9	8.63	8.92	9.05
Milwaukee	388.72	413.80	413.98	39.3	39.3	39.1	9.91	10.53	10.58
Racine	379.93	362.88	399.37	39.6	37.5	39.4	9.59	9.67	10.14
WYOMING									
324.01	304.61	298.70	40.3	36.7	35.1	8.04	8.30	8.51	

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		
	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P	SEP. 1981	AUG. 1982	SEP. 1982P
VIRGIN ISLANDS	\$377.52	\$404.26	\$430.43	41.9	41.0	43.0	\$9.01	\$9.86	\$10.01

¹ Revised to 1981 benchmark; not strictly comparable with previously published data.

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

³ Subarea of New York—Northeastern New Jersey.

⁴ Subarea of Rochester Standard Metropolitan Statistical Area.

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

⁶ Subarea of New York Standard Metropolitan Statistical Area.

⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical

Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

⁸ Subarea of 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		
	SEPT. 1981	AUG. 1982	SEPT. 1982P	SEPT. 1981	AUG. 1982	SEPT. 1982P	SEPT. 1981	AUG. 1982	SEPT. 1982P
ALABAMA	1,668.5	1,691.1	1,689.7	170.5	241.4	241.2	10.2	14.3	14.3
Birmingham	374.6	383.7	378.8	38.1	56.1	55.4	10.2	14.6	14.6
Huntsville	143.8	148.0	148.8	13.9	16.9	17.6	9.7	11.4	11.8
Mobile	190.1	190.7	190.5	17.9	27.6	27.7	9.4	14.5	14.5
Montgomery	121.7	121.8	120.8	11.3	14.8	13.6	9.3	12.2	11.3
Tuscaloosa	53.7	53.9	53.0	5.0	6.5	5.9	9.2	12.1	11.1
ALASKA	198.6	211.8	205.6	15.7	17.7	15.9	7.9	8.3	7.7
ARIZONA	1,262.1	1,315.2	1,341.6	76.0	147.7	142.9	6.0	11.2	10.7
Phoenix	771.2	795.1	813.8	38.2	67.9	68.2	5.0	8.5	8.4
Tucson	229.2	239.2	248.6	11.4	24.8	25.1	5.0	10.4	10.1
ARKANSAS	1,042.5	1,031.9	1,043.3	82.8	101.2	98.3	7.9	9.8	9.4
Fayetteville-Springdale	81.9	80.5	82.6	3.8	6.2	6.0	4.7	7.8	7.3
Fort Smith	89.2	86.1	86.8	7.5	9.1	8.9	8.4	10.6	10.2
Little Rock—North Little Rock	199.2	199.0	200.0	14.5	16.2	15.9	7.3	8.1	7.9
Pine Bluff	41.4	40.4	41.2	3.9	4.5	4.5	9.4	11.0	10.9
CALIFORNIA ²	11,706.8	12,303.5	12,203.5	816.7	1,249.5	1,178.2	7.0	10.2	9.7
Anaheim—Santa Ana—Garden Grove	1,142.4	1,223.1	1,301.0	51.3	96.6	94.0	4.5	7.9	7.2
Bakersfield	193.4	209.8	201.8	15.4	26.5	25.5	8.0	12.6	12.6
Fresno	312.0	310.9	330.5	24.1	38.2	34.3	7.7	12.3	10.4
Los Angeles—Long Beach ²	3,708.0	3,778.0	3,781.0	269.0	343.0	356.0	7.3	9.1	9.4
Modesto	140.9	151.8	145.9	13.9	22.8	19.3	9.8	15.0	13.2
Oxnard—Simi Valley—Ventura	243.5	268.6	257.7	19.7	34.9	31.3	8.1	13.0	12.1
Riverside—San Bernardino—Ontario	593.4	640.6	622.9	50.6	90.1	81.5	8.5	14.1	13.1
Sacramento	487.5	521.4	505.5	36.3	58.8	52.2	7.5	11.3	10.3
Salinas—Seaside—Monterey	137.3	147.4	142.3	9.5	13.7	12.8	6.9	9.3	9.0
San Diego	782.7	832.2	811.4	53.7	91.3	85.1	6.9	11.0	10.5
San Francisco—Oakland	1,659.0	1,771.2	1,717.7	94.9	156.7	139.4	5.7	8.8	8.1
San Jose	776.1	836.9	808.2	46.0	65.6	60.5	5.9	7.8	7.5
Santa Barbara—Santa Maria—Lompoc	150.9	161.9	156.1	8.4	12.9	11.9	5.5	7.9	7.7
Santa Rosa	139.6	148.7	145.8	9.7	15.8	13.9	6.9	10.6	9.5
Stockton	182.3	185.6	186.1	15.1	25.6	22.0	8.3	13.8	11.8
Vallejo—Fairfield—Napa	132.7	142.6	137.3	9.4	16.0	14.0	7.1	11.2	10.2
COLORADO	1,540.5	1,590.1	1,587.5	75.5	114.7	120.7	4.9	7.2	7.6
Denver—Boulder	914.5	939.8	939.8	42.1	60.2	64.1	4.6	6.4	6.8
CONNECTICUT	1,582.6	1,598.4	1,598.7	88.5	105.2	103.1	5.6	6.6	6.5
Bridgeport	191.1	195.0	194.4	10.7	14.5	14.8	5.6	7.4	7.6
Hartford	382.5	386.2	389.0	20.0	24.5	24.6	5.2	6.3	6.3
New Britain	73.9	72.1	73.2	4.8	6.7	6.2	6.5	9.3	8.4
New Haven—West Haven	197.6	199.5	200.1	12.0	12.8	12.4	6.1	6.4	6.2
Stamford	122.7	124.0	124.0	4.8	4.4	4.3	3.9	3.5	3.5
Waterbury	105.5	109.0	108.6	6.8	8.9	8.9	6.4	8.1	8.2
DELAWARE	289.3	303.7	291.3	20.1	30.5	23.2	6.9	10.0	8.0
Wilmington ¹	253.5	261.4	253.5	17.4	29.1	21.5	6.9	11.1	8.5
DISTRICT OF COLUMBIA	307.2	333.7	317.2	29.8	36.8	34.0	9.7	11.0	10.7
Washington SMSA ¹	1,682.2	1,737.5	1,712.1	89.4	104.0	98.8	5.3	6.0	5.8
FLORIDA ²	4,560.7	4,865.0	4,937.2	369.4	378.7	406.2	8.1	7.8	8.2
Daytona Beach	109.1	113.5	111.3	7.9	6.9	6.9	7.2	6.1	6.2
Fort Lauderdale—Hollywood	479.8	509.6	514.6	29.8	33.2	35.9	6.2	6.5	7.0
Fort Myers—Cape Coral	94.7	101.4	106.9	6.2	7.8	8.4	6.5	7.7	7.9
Gainesville	79.0	82.6	85.0	3.7	3.3	4.2	4.7	4.0	4.9
Jacksonville	344.9	370.3	381.2	25.7	23.0	28.2	7.5	6.2	7.4
Lakeland—Winter Haven	151.9	150.7	153.5	26.6	28.7	26.8	17.5	19.1	17.4
Melbourne—Titusville—Cocoa	125.7	132.4	133.5	11.6	9.9	10.5	9.2	7.5	7.8
Miami	827.5	880.8	890.0	64.6	68.2	73.9	7.8	7.7	8.3
Orlando	373.1	393.0	405.4	29.7	25.1	28.4	8.0	6.4	7.0
Pensacola	122.8	131.6	134.8	8.4	8.3	9.9	6.8	6.3	7.3
Sarasota	78.4	87.2	87.5	5.1	6.1	6.2	6.4	7.0	7.1
Tallahassee	87.0	93.1	91.8	4.5	4.5	4.3	5.2	4.9	4.7
Tampa—St. Petersburg	705.7	761.3	776.5	49.4	53.2	57.1	7.0	7.0	7.4
West Palm Beach—Boca Raton	274.4	289.4	292.8	24.7	26.0	26.5	9.0	9.0	9.0

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		
	SEPT. 1981	AUG. 1982	SEPT. 1982P	SEPT. 1981	AUG. 1982	SEPT. 1982P	SEPT. 1981	AUG. 1982	SEPT. 1982P
GEORGIA	2,611.9	2,694.7	2,679.1	162.7	201.0	201.4	6.2	7.5	7.5
Albany	54.0	55.6	55.2	4.4	5.2	5.1	8.1	9.3	9.2
Atlanta	1,063.7	1,117.0	1,112.4	58.9	68.4	70.2	5.5	6.1	6.3
Augusta	133.7	138.8	140.3	11.5	12.5	14.6	8.6	9.0	10.4
Columbus ¹	89.4	90.9	87.6	7.6	8.6	8.2	8.5	9.5	9.4
Macon	106.8	110.4	110.1	6.5	7.3	7.6	6.1	6.6	6.9
Savannah	98.3	99.5	99.8	6.0	7.6	7.5	6.1	7.7	7.5
HAWAII	442.0	455.4	445.2	25.3	34.7	35.1	5.7	7.6	7.9
Honolulu	339.9	347.7	339.3	18.3	24.2	24.3	5.4	7.0	7.1
IDAHO	432.8	440.4	443.5	27.4	39.3	34.3	6.3	8.9	7.7
Boise City	88.1	90.3	92.4	4.4	5.8	5.6	5.0	6.5	6.0
ILLINOIS*	5,569.1	5,717.5	5,640.9	446.2	651.1	683.2	8.0	11.4	12.1
Bloomington—Normal	62.1	62.2	61.6	3.3	5.7	5.5	5.2	9.1	8.9
Champaign—Urbana—Rantoul	85.1	83.7	85.0	4.3	6.6	6.3	5.1	7.9	7.4
Chicago	3,501.5	3,592.9	3,542.9	278.5	380.6	401.5	8.0	10.6	11.3
Davenport—Rock Island—Moline ¹	188.0	192.8	200.8	15.8	26.9	31.7	8.4	13.9	15.8
Decatur	61.9	64.4	63.1	6.5	12.9	10.6	10.5	20.0	16.9
Kankakee	41.4	43.2	42.4	4.8	7.0	7.3	11.5	16.3	17.2
Peoria	174.5	178.0	179.2	12.0	26.5	28.5	6.9	14.9	15.9
Rockford	136.3	139.7	135.2	12.1	25.9	23.0	8.9	18.5	17.0
Springfield	98.5	107.7	100.2	6.0	7.2	7.7	6.1	6.7	7.7
INDIANA	2,619.2	2,562.6	2,596.6	237.6	283.2	295.9	9.1	11.1	11.4
Anderson	55.6	53.0	53.7	6.4	7.2	7.0	11.5	13.5	12.9
Elkhart	66.8	65.9	65.7	5.5	6.5	6.2	8.2	9.9	9.5
Evansville ¹	148.5	N.A.	N.A.	13.0	N.A.	N.A.	8.7	N.A.	N.A.
Fort Wayne	193.2	188.0	192.6	16.7	20.9	24.6	8.6	11.1	12.8
Gary—Hammond—East Chicago	292.2	294.8	292.8	30.5	44.3	45.6	10.4	15.0	15.6
Indianapolis	614.8	608.4	608.6	51.9	55.6	55.1	8.4	9.1	9.0
Lafayette—West Lafayette	64.1	59.9	65.3	4.1	5.2	5.5	6.3	8.8	8.4
Muncie	57.7	53.9	56.5	6.4	7.2	7.4	11.1	13.3	13.1
South Bend	134.7	132.5	134.7	10.8	12.2	13.0	8.0	9.2	9.7
Terre Haute	79.8	74.2	76.0	7.0	8.5	8.6	8.8	11.4	11.3
IOWA	1,418.5	1,370.6	1,370.2	83.2	113.3	105.1	5.9	8.3	7.7
Cedar Rapids	85.7	80.7	80.3	6.3	8.8	8.2	7.3	10.9	10.2
Des Moines	179.5	172.7	172.6	11.7	14.5	13.4	6.5	8.4	7.7
Dubuque	44.2	41.5	41.5	3.8	6.1	5.7	8.7	14.7	13.7
Sioux City ¹	54.3	52.8	54.5	3.7	4.6	4.2	6.8	8.7	7.7
Waterloo—Cedar Falls	68.2	63.1	63.6	5.1	7.0	6.7	7.4	11.1	10.5
KANSAS	1,195.1	1,169.7	1,177.8	46.1	83.1	83.1	3.9	7.1	7.1
Lawrence	35.4	32.5	34.1	1.6	1.8	1.7	4.6	5.5	4.9
Topeka	94.8	93.2	92.4	5.0	6.4	6.7	5.2	6.8	7.2
Wichita	227.2	224.0	225.7	8.9	25.8	24.5	3.9	11.5	10.8
KENTUCKY	1,671.5	1,674.8	1,711.6	115.1	183.3	182.3	6.9	10.9	10.6
Lexington—Fayette	181.5	N.A.	N.A.	8.1	N.A.	N.A.	4.5	N.A.	N.A.
Louisville ¹	429.5	N.A.	N.A.	31.7	N.A.	N.A.	7.4	N.A.	N.A.
Owensboro	43.9	N.A.	N.A.	2.8	N.A.	N.A.	6.4	N.A.	N.A.
LOUISIANA	1,887.4	1,912.5	1,915.3	149.6	213.9	202.2	7.9	11.2	10.6
Alexandria	74.6	75.0	75.4	7.5	8.6	8.1	10.0	11.4	10.8
Baton Rouge	230.5	227.6	229.7	17.5	23.4	22.2	7.6	10.3	9.6
Lafayette	94.1	100.0	101.5	4.1	6.1	5.9	4.4	6.1	5.8
Lake Charles	81.9	79.0	77.9	7.2	12.5	11.3	8.8	15.8	14.5
Monroe	56.6	55.8	56.3	5.5	7.6	6.8	9.7	13.6	12.0
New Orleans	516.2	514.4	510.0	39.7	51.7	48.9	7.7	10.1	9.6
Shreveport	167.3	163.8	163.2	12.8	17.4	16.2	7.6	10.6	9.9
MAINE	529.8	538.5	533.9	33.5	41.1	40.0	6.3	7.6	7.5
Lewiston—Auburn	38.4	38.2	37.7	2.8	3.4	3.3	7.4	8.9	8.7
Portland	90.7	94.6	93.4	4.5	5.4	5.3	5.0	5.7	5.7
MARYLAND	2,159.3	2,200.6	2,175.0	151.5	189.7	176.8	7.0	8.6	8.1
Baltimore	1,075.0	1,090.2	1,083.6	87.7	109.3	104.7	8.2	10.0	9.7

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		
	SEPT. 1981	AUG. 1982	SEPT. 1982P	SEPT. 1981	AUG. 1982	SEPT. 1982P	SEPT. 1981	AUG. 1982	SEPT. 1982P
MASSACHUSETTS									
Boston	2,939.1	3,124.3	3,064.2	195.1	238.4	225.8	6.6	7.6	7.4
Brockton	1,410.4	1,502.9	1,481.5	88.7	101.7	94.5	6.3	6.8	6.4
Fall River ¹	80.7	84.4	82.9	6.8	7.9	7.6	8.4	9.3	9.2
Lawrence—Haverhill ¹	73.4	78.5	77.5	5.8	7.9	7.7	7.9	10.1	9.9
Lowell	147.9	151.9	146.3	10.4	13.3	12.8	7.0	8.8	8.7
New Bedford	128.2	136.6	133.5	8.7	9.3	10.0	6.8	6.8	7.5
Springfield—Chicopee—Holyoke	85.1	88.5	85.0	7.5	10.0	9.4	8.8	11.3	11.1
Worcester	278.8	299.3	296.5	17.6	22.3	21.5	6.3	7.4	7.2
	200.0	210.6	206.3	12.5	19.2	17.1	6.3	9.1	8.3
MICHIGAN									
Ann Arbor	4,295.7	4,378.8	4,306.6	459.9	637.0	624.4	10.7	14.5	14.5
Battle Creek	139.3	146.2	144.1	10.7	16.7	15.3	7.7	11.4	10.6
Bay City	79.9	84.9	83.3	7.3	13.2	13.4	9.2	15.5	16.1
Detroit	53.2	56.0	54.6	5.8	7.6	7.7	10.9	13.5	14.1
Flint	2,000.4	2,006.5	1,980.7	234.5	304.4	300.3	11.7	15.2	15.2
Grand Rapids	223.9	226.7	225.8	31.1	39.6	40.2	13.9	17.5	17.8
Jackson	325.9	337.0	331.5	26.1	35.9	36.4	8.0	10.7	11.0
Kalamazoo—Portage	65.6	67.5	66.5	6.1	10.5	10.4	9.4	15.5	15.6
Lansing—East Lansing	140.1	141.8	141.4	10.7	14.4	15.2	7.6	10.2	10.8
Muskegon—Norton Shores—Muskegon Heights	241.9	249.4	242.4	21.8	33.8	28.9	9.0	13.5	11.9
Saginaw	78.1	83.2	81.2	8.9	14.5	14.0	11.4	17.4	17.2
	101.8	104.5	102.8	12.0	15.4	14.5	11.8	14.8	14.1
MINNESOTA									
Duluth—Superior ¹	2,157.8	2,178.9	2,171.8	96.0	159.9	155.7	4.4	7.3	7.2
Minneapolis—St. Paul	113.4	115.8	114.7	6.7	22.6	21.4	5.9	19.5	18.6
Rochester	1,155.8	1,154.8	1,160.5	47.5	74.0	75.0	4.1	6.4	6.5
St. Cloud	58.0	58.7	58.5	2.1	3.0	3.0	3.6	5.1	5.2
	74.3	77.6	77.7	4.0	6.7	6.2	5.4	8.6	8.0
MISSISSIPPI									
Jackson	1,062.8	1,052.7	1,064.7	82.7	132.3	130.0	7.8	12.6	12.2
	161.1	158.7	159.1	9.4	13.8	13.6	5.8	8.7	8.5
MISSOURI									
Kansas City ¹	2,332.2	2,351.7	2,339.1	163.1	212.0	206.1	7.0	9.0	8.8
St. Joseph	686.7	678.4	669.5	46.4	57.1	56.9	6.8	8.4	8.5
St. Louis ¹	43.7	44.7	44.6	3.6	4.5	4.8	8.2	10.2	10.8
Springfield	1,114.3	1,137.7	1,119.8	88.2	109.2	108.7	7.9	9.6	9.7
	109.1	109.1	109.6	5.9	7.6	8.2	5.4	6.9	7.4
MONTANA									
Billings	386.6	389.5	387.6	22.3	30.2	28.9	5.8	7.7	7.4
Great Falls	58.1	60.1	60.7	2.3	3.7	3.6	3.9	6.2	5.9
	34.0	36.0	35.1	2.2	2.8	2.7	6.5	7.9	7.7
NEBRASKA									
Lincoln	775.4	781.9	770.8	27.9	43.3	43.1	3.6	5.5	5.6
Omaha ¹	112.7	108.8	110.8	3.9	5.5	5.4	3.5	5.0	4.9
	284.7	279.9	280.2	14.6	18.6	20.2	5.1	6.6	7.2
NEVADA									
Las Vegas	470.7	489.7	486.8	29.2	50.1	50.4	6.2	10.2	10.4
Reno	262.1	271.2	270.9	19.0	31.3	31.5	7.3	11.5	11.6
	129.1	134.6	134.1	5.8	10.7	10.8	4.5	8.0	8.1
NEW HAMPSHIRE									
Manchester	487.6	491.4	484.3	22.2	31.7	30.5	4.5	6.5	6.3
Nashua	84.4	84.2	84.6	4.3	5.7	5.4	5.1	6.8	6.4
	84.0	83.3	83.5	3.9	5.5	5.3	4.6	6.6	6.3
NEW JERSEY									
Atlantic City	3,491.3	3,660.1	3,595.8	219.6	320.2	307.9	6.3	8.7	8.6
Jersey City	112.7	126.4	120.7	7.2	10.4	10.7	6.4	8.2	8.9
Long Branch—Asbury Park	235.8	245.9	243.4	22.7	31.4	31.6	9.6	12.8	13.0
New Brunswick—Perth Amboy—Sayreville	236.7	258.8	250.2	14.4	20.5	20.4	6.1	7.9	8.2
Newark	321.4	336.6	331.0	18.4	29.3	28.1	5.7	8.7	8.5
Paterson—Clifton—Passaic	936.1	989.5	972.3	58.9	87.0	82.1	6.3	8.8	8.4
Trenton	202.8	209.6	206.4	16.4	24.0	22.2	8.1	11.5	10.7
Vineland—Millville—Bridgeton	153.4	158.2	156.8	7.7	13.1	12.8	5.0	8.3	8.2
	57.3	61.0	59.3	5.5	9.1	8.9	9.6	15.0	15.1
NEW MEXICO									
Albuquerque	581.7	600.7	604.8	39.7	60.3	59.7	6.8	10.0	9.9
Las Cruces	214.3	220.5	222.6	15.7	18.9	18.8	7.3	8.6	8.4
	35.1	37.5	38.3	2.4	4.2	3.8	7.0	11.1	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		
	SEPT. 1981	AUG. 1982	SEPT. 1982P	SEPT. 1981	AUG. 1982	SEPT. 1982P	SEPT. 1981	AUG. 1982	SEPT. 1982P
NEW YORK^a	7,902.3	8,160.6	7,900.6	550.6	684.7	666.6	7.0	8.4	8.4
Albany—Schenectady—Troy	371.7	387.7	372.3	19.5	23.6	26.2	5.2	6.1	7.0
Binghamton ¹	138.8	145.9	141.4	7.9	10.1	10.9	5.7	6.9	7.7
Buffalo	553.1	567.7	546.5	48.9	67.4	68.1	8.8	11.9	12.5
Elmira	38.6	39.3	38.0	2.4	4.1	4.7	6.2	10.4	12.3
Nassau-Suffolk	1,301.8	1,372.8	1,317.7	74.2	80.9	90.8	5.7	5.9	6.9
New York	3,599.8	3,661.6	3,585.9	282.1	353.9	308.8	7.8	9.7	8.6
New York City ²	2,988.0	3,019.0	2,975.0	253.0	322.0	274.0	8.5	10.7	9.2
Poughkeepsie	111.2	118.0	111.9	6.2	6.1	6.7	5.6	5.2	6.0
Rochester	468.9	491.2	471.6	25.0	30.9	35.6	5.3	6.3	7.5
Syracuse	297.5	303.9	294.8	18.1	21.7	23.6	6.1	7.1	8.0
Utica—Rome	133.6	140.1	134.2	8.3	10.9	11.3	6.2	7.8	8.4
NORTH CAROLINA	2,941.8	2,965.6	2,959.8	175.3	266.7	257.7	6.0	9.0	8.7
Asheville	90.7	93.4	91.7	5.3	7.0	6.9	5.8	7.5	7.5
Charlotte—Gastonia	376.9	380.2	379.9	20.1	28.1	26.7	5.3	7.4	7.0
Greensboro—Winston-Salem—High Point	450.7	453.3	454.9	27.3	37.5	36.3	6.1	8.3	8.0
Raleigh—Durham	312.8	313.6	320.0	10.8	14.2	14.9	3.5	4.5	4.7
NORTH DAKOTA	322.8	333.0	317.1	12.2	15.7	15.3	3.8	4.7	4.8
Fargo—Moorehead ¹	71.0	71.9	71.6	3.1	3.5	3.3	4.4	4.9	4.6
OHIO^a	5,076.2	5,234.7	5,121.7	509.8	656.9	629.2	10.0	12.5	12.3
Akron	302.6	309.8	304.5	29.5	37.6	36.0	9.7	12.1	11.8
Canton	189.2	199.0	193.1	20.1	28.8	26.2	10.6	14.5	13.6
Cincinnati ¹	680.1	N.A.	N.A.	63.8	N.A.	N.A.	9.4	N.A.	N.A.
Cleveland	922.5	954.2	929.0	82.6	105.4	98.9	9.0	11.0	10.6
Columbus	561.3	580.3	566.2	49.4	53.6	49.7	8.8	9.2	8.8
Dayton	388.9	398.9	393.9	34.1	45.5	42.9	8.8	11.4	10.9
Toledo ¹	365.7	371.6	365.8	40.8	45.3	44.9	11.2	12.2	12.3
Youngstown—Warren	231.0	245.9	240.0	25.8	51.6	45.0	11.2	21.0	18.7
OKLAHOMA	1,465.6	1,478.0	1,475.1	49.4	84.0	86.2	3.4	5.7	5.8
Enid	30.0	29.3	29.1	.6	1.6	1.8	2.0	5.3	6.2
Lawton	34.7	33.5	33.8	1.4	1.7	1.7	4.1	5.0	5.0
Oklahoma City	455.8	464.3	465.8	15.8	21.1	23.2	3.5	4.5	5.0
Tulsa	363.2	367.2	361.6	12.3	23.6	23.9	3.4	6.4	6.6
OREGON	1,344.0	1,302.6	1,308.1	120.0	133.6	130.5	8.9	10.3	10.0
Eugene—Springfield	139.9	130.2	131.5	15.3	14.4	14.4	10.9	11.0	10.9
Portland ¹	657.3	643.1	644.1	50.7	62.4	63.6	7.7	9.7	9.9
Salem	128.7	131.7	131.9	9.5	10.7	10.1	7.4	8.1	7.6
PENNSYLVANIA^a	5,444.4	5,593.4	5,493.2	447.6	574.9	601.4	8.2	10.3	10.9
Allentown—Bethlehem—Easton ¹	311.3	319.9	310.3	23.0	35.4	32.8	7.4	11.1	10.6
Altoona	58.8	59.6	57.3	7.3	8.2	6.1	12.4	13.8	10.6
Erie	124.7	127.4	125.6	11.7	14.2	15.6	9.4	11.1	12.4
Harrisburg	236.1	247.2	239.8	13.9	13.6	14.8	5.9	5.5	6.2
Johnstown	105.7	108.0	105.2	12.8	15.8	17.6	12.1	14.7	16.7
Lancaster	183.6	190.5	185.5	9.0	12.5	12.3	4.9	6.5	6.6
Northeast Pennsylvania	283.3	294.0	284.5	25.8	27.5	30.5	9.1	9.3	10.7
Philadelphia ¹	2,159.8	2,214.1	2,184.1	170.4	179.1	184.3	7.9	8.1	8.4
Pittsburgh	1,032.8	1,048.9	1,037.3	75.8	131.2	144.9	7.3	12.5	14.0
Reading	159.0	161.1	158.4	11.4	13.7	14.2	7.2	8.5	9.0
Williamsport	53.7	53.6	52.3	6.3	5.7	6.1	11.7	10.6	11.7
York	179.2	186.9	183.0	13.1	21.4	19.7	7.3	11.4	10.8
RHODE ISLAND	482.4	486.1	484.2	33.0	46.2	41.8	6.8	9.5	8.6
Providence—Warwick—Pawtucket ¹	475.3	478.4	476.2	32.9	47.6	42.9	6.9	10.0	9.0
SOUTH CAROLINA	1,423.1	1,483.8	1,471.9	116.6	167.7	157.2	8.2	11.3	10.7
Charleston—North Charleston	170.8	181.9	181.2	13.6	16.0	16.4	7.9	8.8	9.0
Columbia	186.0	193.8	193.2	11.3	15.7	14.0	6.1	8.1	7.2
Greenville—Spartanburg	284.0	295.4	295.4	20.0	32.7	30.1	7.0	11.1	10.2
SOUTH DAKOTA	340.6	333.3	328.5	14.3	14.3	15.2	4.2	4.3	4.6
Sioux Falls	63.0	61.4	61.4	3.0	2.3	2.6	4.8	3.7	4.2
TENNESSEE	2,125.4	2,122.1	2,166.7	175.5	235.4	246.7	8.3	11.1	11.4
Chattanooga ¹	198.3	203.7	207.1	15.3	22.5	23.9	7.7	11.0	11.5
Knoxville	226.0	232.1	234.5	15.3	17.7	19.3	6.8	7.6	8.2
Memphis ¹	412.3	407.9	417.0	34.8	38.9	40.0	8.4	9.5	9.6
Nashville—Davidson	431.1	427.9	432.5	26.5	36.1	35.2	6.2	8.4	8.1

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		
	SEPT. 1981	AUG. 1982	SEPT. 1982P	SEPT. 1981	AUG. 1982	SEPT. 1982P	SEPT. 1981	AUG. 1982	SEPT. 1982P
TEXAS*	7,140.3	7,373.7	7,311.4	384.2	518.6	587.4	5.4	7.0	8.0
Dallas—Fort Worth	1,677.4	1,759.2	1,739.4	81.8	104.8	111.2	4.9	6.0	6.4
Houston	1,695.9	1,748.7	1,730.0	80.8	122.8	142.7	4.8	7.0	8.2
San Antonio	462.8	471.6	469.5	31.2	34.2	37.1	6.7	7.2	7.9
UTAH	651.1	674.0	681.5	39.7	50.6	52.7	6.1	7.5	7.7
Salt Lake City—Ogden	425.3	439.2	441.2	26.3	32.2	33.7	6.2	7.3	7.6
VERMONT	260.2	273.7	274.2	12.3	17.2	15.6	4.7	6.3	5.7
VIRGINIA	2,611.6	2,642.7	2,648.5	145.4	191.6	194.8	5.6	7.2	7.4
Lynchburg	74.8	75.5	76.6	3.6	6.5	7.1	4.9	8.6	9.3
Newport News—Hampton	167.4	173.9	173.4	10.1	10.5	11.6	6.0	6.1	6.7
Norfolk—Virginia Beach—Portsmouth ¹	338.2	341.2	342.5	21.0	24.2	25.2	6.2	7.1	7.4
Petersburg—Colonial Heights—Hopewell	58.4	59.1	60.1	4.6	5.1	5.3	7.9	8.6	8.9
Richmond	335.4	339.1	341.6	14.3	19.2	19.3	4.3	5.7	5.7
Roanoke	110.2	112.0	111.5	6.2	7.8	7.5	5.7	7.0	6.7
WASHINGTON	1,989.2	2,006.4	2,015.0	175.1	238.4	218.9	8.8	11.9	10.9
Seattle—Everett	862.1	881.5	882.8	66.9	94.0	88.5	7.8	10.7	10.0
Spokane	148.1	147.4	149.4	13.8	18.0	17.9	9.3	12.2	12.0
Tacoma	179.8	183.6	187.3	16.9	22.5	22.4	9.4	12.2	12.0
WEST VIRGINIA	772.4	791.3	784.8	65.2	107.6	109.6	8.4	13.6	14.0
Charleston	125.6	128.2	126.0	9.2	12.5	12.2	7.3	9.7	9.7
Huntington—Ashland ¹	125.3	N.A.	N.A.	11.8	N.A.	N.A.	9.4	N.A.	N.A.
Parkersburg—Marietta ¹	73.1	75.6	74.9	6.1	9.4	9.4	8.4	12.4	12.6
Wheeling ¹	81.0	85.3	82.4	6.5	11.6	11.4	8.0	13.6	13.8
WISCONSIN	2,389.0	2,477.6	2,482.0	149.4	258.1	252.1	6.3	10.4	10.2
Appleton—Oshkosh	147.5	154.4	154.0	8.6	14.9	15.1	5.8	9.7	9.8
Eau Claire	58.2	59.9	60.5	3.5	6.1	5.3	6.0	10.2	8.8
Green Bay	92.0	97.4	97.0	6.2	9.0	8.7	6.8	9.2	8.9
Janeville—Beloit	68.3	73.6	73.2	4.5	14.3	9.7	6.6	19.4	13.2
Kenosha	59.2	60.7	63.6	4.1	5.4	6.8	7.0	8.9	10.7
LaCrosse	49.0	50.2	51.5	2.9	4.2	4.1	6.0	8.4	7.9
Madison	185.3	192.5	192.3	8.4	12.8	11.5	4.5	6.6	6.0
Milwaukee	720.6	743.2	745.3	48.8	81.9	86.0	6.8	11.0	11.5
Racine	85.2	87.1	87.1	6.4	12.9	12.1	7.5	14.8	13.9
WYOMING	258.0	259.8	254.4	8.6	14.9	14.0	3.3	5.7	5.5

* Includes interstate portion of area located in adjacent State.

¹ Data are obtained directly from the Current Population Survey. (See "Explanatory Notes" for State and Area Unemployment Data in Employment and Earnings, monthly.)

NOTE: Estimates for 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

becomes available. Data refer to place of residence.

p = preliminary.

N.A. = not available.

SOURCE: Current Population Survey and Cooperating State Employment Security Agencies listed on inside back cover.

Labor force and unemployment estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the 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	¹ 330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	² 333	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

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

² 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 lastest 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 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	46
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:

Standard
error of
year-to-year =

$$\sqrt{\left(\frac{\text{Stand-}}{\text{ard}}\right)_X^2 + \left(\frac{\text{Stand-}}{\text{ard}}\right)_Y^2 - 2(P) \left(\frac{\text{Stand-}}{\text{ard}}\right)_X \left(\frac{\text{Stand-}}{\text{ard}}\right)_Y}$$

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	OCCUPATION		
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	INDUSTRY		
Part-time workers .....	.32	.40	Nonagricultural private wage and salary workers .....	.13	.13
Unemployed 15 weeks and over .....	.06	.07	Construction .....	.59	.70
OCCUPATION			Manufacturing .....	.27	.30
White-collar workers .....	.12	.13	Durable goods .....	.37	.41
Professional and technical .....	.18	.20	Nondurable goods .....	.39	.45
Managers and administrators, 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	Agricultural employment	Characteristic ¹							
		Labor force data other than unemployment and agricultural employment data						Unemployment	
		Total or white	Black and other	Total or white, 16-19 years	Black and other, 16-19 years	Total or white males only, or females only	Black and other males only, or females only	Total or white	Black and other
50	13	10	10	10	10	9	9	10	11
100	18	14	14	14	14	13	13	14	15
500	41	32	32	32	28	30	29	31	33
1,000	57	45	44	44	33	42	40	44	46
2,000	81	64	60	60	13	59	52	62	63
4,000	113	90	79	77	-	82	60	87	83
6,000	137	109	88	84	-	99	53	106	93
8,000	-	125	90	84	-	113	16	122	-
10,000	-	139	87	76	-	124	-	135	-
15,000	-	166	36	-	-	146	-	163	-
20,000	-	188	-	-	-	161	-	182	-
30,000	-	219	-	-	-	177	-	-	-
40,000	-	249	-	-	-	178	-	-	-
50,000	-	253	-	-	-	164	-	-	-
60,000	-	260	-	-	-	131	-	-	-
70,000	-	260	-	-	-	49	-	-	-
80,000	-	254	-	-	-	-	-	-	-
100,000	-	221	-	-	-	-	-	-	-
120,000	-	143	-	-	-	-	-	-	-

¹ When determining the standard error of an estimate for a group which is a subset of the age, sex, 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 ¹							
	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 ²	Black and other	Black and other, 16-19 years
50	8	8	12	12	11	12	12	12
100	11	11	17	17	16	17	16	17
500	24	23	37	33	35	39	36	34
1,000	34	33	52	37	48	55	49	39
2,000	47	45	70	-	68	77	65	-
4,000	66	58	89	-	93	107	80	-
6,000	81	65	96	-	110	129	-	-
8,000	93	68	93	-	123	147	-	-
10,000	103	65	78	-	132	162	-	-
15,000	123	33	-	-	145	191	-	-
20,000	130	-	-	-	146	211	-	-
30,000	163	-	-	-	-	-	-	-
40,000	179	-	-	-	-	-	-	-
50,000	189	-	-	-	-	-	-	-
60,000	194	-	-	-	-	-	-	-
70,000	195	-	-	-	-	-	-	-
80,000	191	-	-	-	-	-	-	-
100,000	179	-	-	-	-	-	-	-
120,000	119	-	-	-	-	-	-	-

¹ See footnote 1, table D.² Part-time labor force for unemployment also includes persons

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

Table 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	.98	1.17	1.31	1.42	1.50	1.56	1.64
4,000 .....	.23	.32	.50	.69	.83	.92	1.00	1.06	1.10	1.16
6,000 .....	.19	.26	.41	.57	.67	.75	.82	.86	.90	.94
10,000 .....	.15	.21	.32	.44	.52	.59	.63	.67	.70	.73
20,000 .....	.11	.15	.23	.31	.37	.41	.45	.47	.49	.51
60,000 .....	.06	.08	.12	.17	.20	.23	.25	.26	.27	.28
100,000 .....	.04	.06	.10	.13	.16	.18	.19	.20	.21	.22

Table 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	.89	.80	.72	.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	.86	.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)
Monthly data		
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. ¹	Sum of all-employee estimates for component cells.
Production or nonsupervisory workers, women employees	All-employee estimate for current month multiplied by (1) ratio of production or nonsupervisory workers to all employees in sample establishments for current month, (2) estimated ratio of women to all employees. ²	Sum of production- or nonsupervisory-worker estimates, or estimates of women employees, for component cells.
Gross average weekly hours	Production- or nonsupervisory-worker hours divided by number of production or nonsupervisory workers. ²	Average, weighted by production- or nonsupervisory-worker employment, of the average weekly hours for component cells.
Average weekly overtime hours	Production-worker overtime hours divided by number of production workers. ²	Average, weighted by production-worker employment, of the average weekly overtime hours for component cells.
Gross average hourly earnings	Total production- or nonsupervisory-worker payroll divided by total production- or nonsupervisory-worker hours. ²	Average, weighted by aggregate hours, of the average hourly earnings for component cells.
Gross average weekly earnings	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Annual average data		
All employees, women employees, and production or nonsupervisory workers	Sum of monthly estimates divided by 12.	Sum of monthly estimates divided by 12.
Gross average weekly hours	Annual total of aggregate hours (production- or nonsupervisory-worker employment multiplied by average weekly hours) divided by annual sum of employment.	Annual total of aggregate hours for production or nonsupervisory workers divided by annual sum of employment for these workers.
Average weekly overtime hours	Annual total of aggregate overtime hours (production-worker employment multiplied by average weekly overtime hours) divided by annual sum of employment.	Annual total of aggregate overtime hours for production workers divided by annual sum of employment for these workers
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.

¹ 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.

² The sample production-worker ratio, women-worker ratio, average weekly hours, average overtime hours, and average hourly earnings are

modified by a wedging technique designed to 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 1981¹

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 ²	4,900	2,769,000	100
State and local	15,000	8,645,000	63

¹ 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.

² 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 ¹	Relative errors ²	
		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 ³ .....	.5	-	-

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

² Relative errors relate to March 1971 data.

³ 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 ¹	Relative errors ² (in percent)	
		Average weekly hours	Average hourly earnings
50,000	2,100	0.9	1.5
100,000	4,400	.7	1.1
200,000	7,100	.5	.9
500,000	15,200	.4	.8
1,000,000	17,100	.3	.5
2,000,000	28,500	.3	.5

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to March 1971 data.

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	63,00	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 areas 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 continue 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.

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