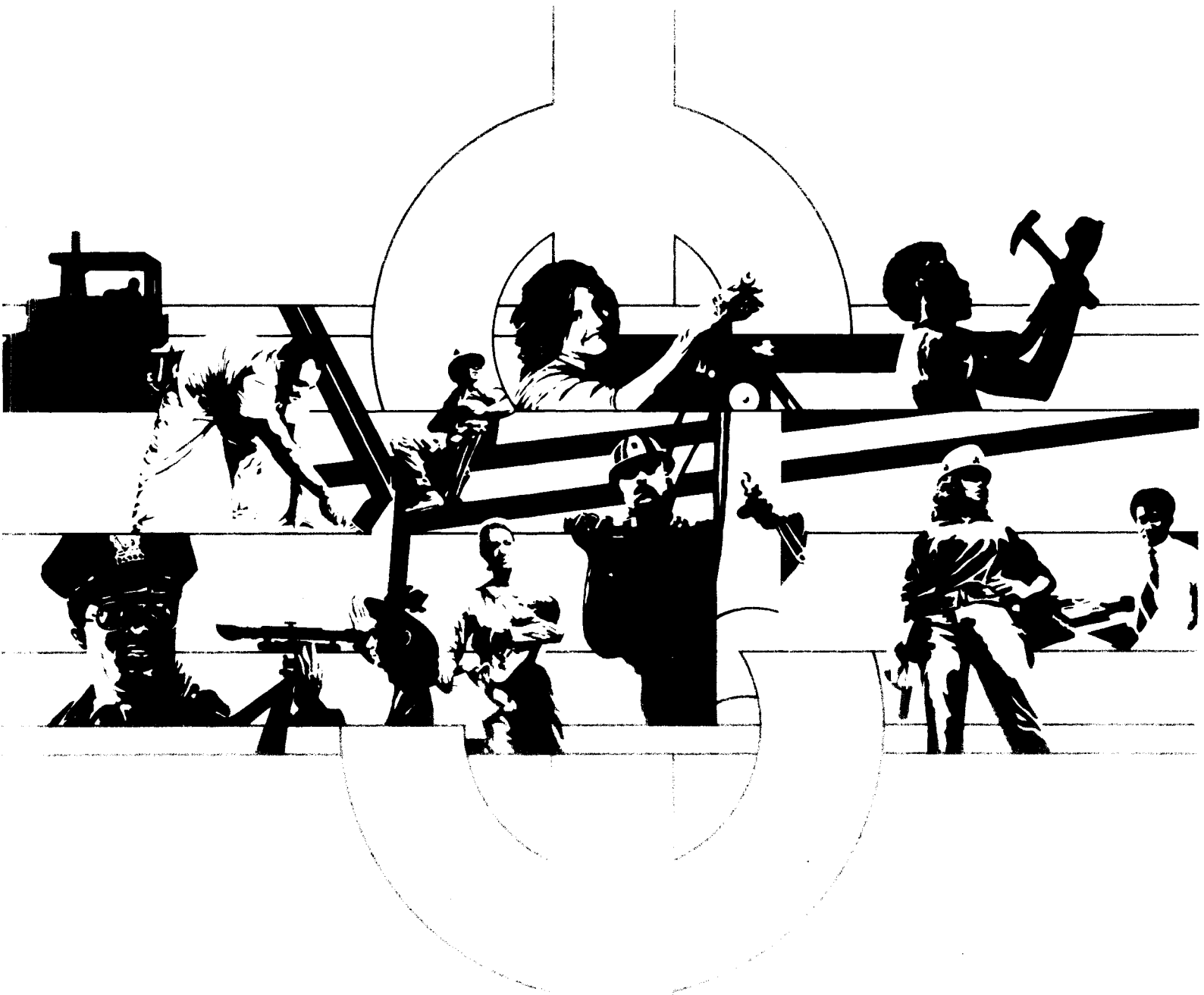


Employment and Earnings September 1982



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

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

Employment and Earnings may be ordered through the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. For ordering information call (202) 783-3238.

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The Secretary of Labor has determined that publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through June 30, 1987. Second-class postage paid at Laurel, Md.

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Library of Congress Catalog Number 70-11379.

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

Calendar of Features

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

Household data

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

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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. 9 September 1982

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

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Employment and Unemployment Developments, August 1982

Unemployment held steady in August and the number of nonagricultural payroll jobs declined. The Nation's jobless rate was 9.8 percent, the same as in July but higher than the rate of 9.5 percent in May and June.

Total employment—as measured by the monthly survey of households—was about unchanged in August at 99.8 million. Nonfarm payroll employment—as measured by the monthly survey of establishments—dropped by 210,000, with continued reductions in manufacturing. Since the pre-recession peak of July 1981, the proportion of the population employed has fallen from 58.5 to 57.1 percent.

Unemployment

Unemployment declined about in line with seasonal expectations in August, and, after adjustment for seasonal movements, the number of unemployed workers remained at 10.8 million. The overall unemployment rate of 9.8 percent was also unchanged from the prior month at a level substantially above last year's pre-recession low of 7.2 percent. Most worker groups experienced little or no change in unemployment over the month. Overall rates for white (8.6 percent), black (18.8 percent), and Hispanic (14.6 percent) workers were near their July levels. Similarly, teenage unemployment was about unchanged at 24.0 percent, as were rates for adult men (8.9 percent) and women (8.2 percent). (See tables A-33 and A-35.)

The number of unemployed persons who lost their last job rose in August. Job losers accounted for 58 percent of the unemployed; they had comprised 50 percent in July 1981. (See table A-39.)

The average duration of unemployment rose in August to 16.2 weeks, while the median duration was about unchanged at 8.2 weeks. Joblessness of 15 weeks or more continued to account for a third of the jobless total. (See table A-37.)

Total employment and the labor force

Total employment in August was 99.8 million, little changed from the prior month, after adjustment for seasonality. Since the onset of the recession, total employment has dropped by 1 million. Adult men have accounted for the bulk of this decline, as employment of adult women actually rose. (See table A-33.)

The number of persons employed as operatives (semi-skilled blue-collar workers) continued to decline in August; since July 1981, their total has dropped by 1.7 million. In contrast, there was an over-the-month increase in the number of service workers, an occupational group that has grown by 400,000 during the recession. (See table A-42.)

The overall labor force was about unchanged in August at 110.6 million. Over the past year, the labor force has risen by 1.8 million, with both adult men and women contributing to the increase. During the same period, the teenage labor force has declined by 410,000, due largely to the decreasing number of persons in this age group.

Industry payroll employment

Nonagricultural payroll employment declined by 210,000 in August to 89.5 million, its lowest level since April 1979. Over-the-month cutbacks were concentrated in the durable goods manufacturing industries, which lost 130,000 jobs, and in wholesale and retail trade, which was down by 80,000. (See table B-4.)

Among the durable goods industries, transportation equipment, which had shown some stability in recent months, declined by 50,000 in August. Sizeable job losses also occurred in the primary metals, fabricated metals, machinery, and electrical equipment industries. Within nondurable goods, an increase in apparel employment offset a decline of the same magnitude in July. Overall, manufacturing employment was down by 115,000, its thirteenth consecutive monthly decline. Elsewhere, in addition to the job loss in trade, employment was down in both mining and construction over the month, while rising slightly in finance, insurance, and real estate.

Hours of work

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls was 34.9 hours in August, seasonally adjusted, about the level that has generally prevailed since last September. The factory workweek, however, declined 0.3 hour over the month to 39.0 hours, erasing the small gains which had occurred over the April-July period. Factory overtime was unchanged at 2.4 hours. (See table C-6.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls declined 0.5 percent in August to 104.5 (1977 = 100). The manufacturing index was down 1.4 percent over the month to 87.0 and has fallen by nearly 12 percent over the year. (See table C-7.)

Hourly and weekly earnings

Average hourly and weekly earnings both rose 0.4 percent in August, after seasonal adjustment. Before adjustment for seasonality, average hourly earnings were up 2 cents to \$7.69, 39 cents above the year-earlier level. Average weekly earnings, at \$271.46, were up

\$1.48 over the month and \$11.58 over the year. (See tables C-1 and C-8.)

The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 149.7 (1977 = 100) in August, seasonally adjusted, 0.6 percent higher than in July. For the 12 months ended in August, the increase (before seasonal adjustment) was 6.5 percent. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements—fluctuations in overtime in manufacturing and interindustry employment shifts. In dollars of constant purchasing power, the HEI increased 0.7 percent during the 12-month period ended in July. (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 noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960 ¹	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962.....	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,272	85,959	61.3	82,771	78,678	3,463	75,215	4,093	4.9	53,315
1971.....	143,033	87,198	61.0	84,382	79,367	3,394	75,972	5,016	5.9	55,834
1972.....	146,574	89,484	61.1	87,034	82,153	3,484	78,669	4,882	5.6	57,091
1973 ¹	149,423	91,756	61.4	89,429	85,064	3,470	81,594	4,365	4.9	57,667
1974.....	152,349	94,179	61.8	91,949	86,794	3,515	83,279	5,156	5.6	58,171
1975.....	155,333	95,955	61.8	93,775	85,846	3,408	82,438	7,929	8.5	59,377
1976.....	158,294	98,302	62.1	96,158	88,752	3,331	85,421	7,406	7.7	59,991
1977.....	161,166	101,142	62.8	99,009	92,017	3,283	88,734	6,991	7.1	60,025
1978 ¹	164,027	104,368	63.6	102,251	96,048	3,387	92,661	6,202	6.1	59,659
1979.....	166,951	107,050	64.1	104,962	98,824	3,347	95,477	6,137	5.8	59,900
1980.....	169,848	109,042	64.2	106,940	99,303	3,364	95,938	7,637	7.1	60,806
1981.....	172,272	110,812	64.3	108,670	100,397	3,368	97,030	8,273	7.6	61,460
Monthly data, seasonally adjusted²										
1981:										
August....	172,559	110,978	64.3	108,818	100,840	3,404	97,436	7,978	7.3	61,581
September..	172,758	110,659	64.1	108,494	100,258	3,358	96,900	8,236	7.6	62,099
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	96,800	9,100	8.3	61,724
December..	173,330	111,348	64.2	109,184	99,613	3,209	96,404	9,571	8.8	61,982
1982:										
January... ¹	173,495	111,038	64.0	108,879	99,581	3,411	96,170	9,298	8.5	62,456
February.. ¹	173,657	111,333	64.1	109,165	99,590	3,373	96,217	9,575	8.8	62,324
March.... ¹	173,843	111,521	64.2	109,346	99,492	3,349	96,144	9,854	9.0	62,321
April.... ¹	174,020	111,824	64.3	109,648	99,340	3,309	96,032	10,307	9.4	62,197
May..... ¹	174,201	112,841	64.8	110,666	100,117	3,488	96,629	10,549	9.5	61,360
June..... ¹	174,364	112,364	64.4	110,191	99,764	3,357	96,406	10,427	9.5	61,999
July..... ¹	174,544	112,702	64.6	110,522	99,732	3,460	96,272	10,790	9.8	61,842
August.... ¹	174,707	112,840	64.6	110,644	99,839	3,435	96,404	10,805	9.8	61,867

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 noninsti- tutional popula- tion	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of popula- tion	Total	Employed			Unemployed		
					Total	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
MALES										
Annual averages										
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	2,824	49,032	4,442	7.9	15,993
1976	75,798	59,212	78.1	57,174	53,138	2,744	50,394	4,036	7.1	16,585
1977	77,211	60,414	78.2	58,396	54,728	2,671	52,057	3,667	6.3	16,797
1978 ¹	78,569	61,613	78.4	59,620	56,479	2,718	53,761	3,142	5.3	16,956
1979	79,968	62,676	78.4	60,726	57,607	2,686	54,921	3,120	5.1	17,293
1980	81,341	63,396	77.9	61,453	57,186	2,709	54,477	4,267	6.9	17,945
1981	82,476	63,939	77.5	61,974	57,397	2,700	54,697	4,577	7.4	18,537
Monthly data, seasonally adjusted ²										
1981:										
August...	82,613	63,916	77.4	61,936	57,551	2,738	54,813	4,385	7.1	18,697
September	82,707	63,960	77.3	61,977	57,471	2,687	54,784	4,506	7.3	18,747
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	77.8	62,849	56,820	2,797	54,023	6,029	9.6	18,553
June.....	83,464	64,270	77.0	62,287	56,223	2,724	53,498	6,065	9.7	19,193
July.....	83,550	64,343	77.0	62,353	56,192	2,796	53,396	6,161	9.9	19,207
August...	83,627	64,464	77.1	62,460	56,210	2,781	53,429	6,250	10.0	19,162
FEMALES										
Annual averages										
1972 ¹	76,333	33,522	43.9	33,479	31,257	635	30,622	2,222	6.6	42,811
1973 ¹	77,855	34,855	44.8	34,804	32,715	622	32,093	2,089	6.0	43,000
1974	79,379	36,278	45.7	36,211	33,769	596	33,173	2,441	6.7	43,101
1975	80,949	37,565	46.4	37,475	33,989	584	33,404	3,486	9.3	43,386
1976	82,496	39,089	47.4	38,983	35,615	588	35,027	3,369	8.6	43,406
1977	83,955	40,728	48.5	40,613	37,289	612	36,677	3,324	8.2	43,227
1978 ¹	85,459	42,755	50.0	42,631	39,569	669	38,900	3,061	7.2	42,703
1979	86,983	44,375	51.0	44,235	41,217	661	40,556	3,018	6.8	42,608
1980	88,507	45,646	51.6	45,487	42,117	656	41,461	3,370	7.4	42,861
1981	89,796	46,873	52.2	46,696	43,000	667	42,333	3,696	7.9	42,922
Monthly data, seasonally adjusted ²										
1981:										
August...	89,946	47,062	52.3	46,882	43,289	666	42,623	3,593	7.7	42,884
September	90,051	46,699	51.9	46,517	42,787	671	42,116	3,730	8.0	43,352
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	52.4	47,088	43,121	704	42,417	3,967	8.4	42,987
December..	90,352	47,066	52.1	46,881	42,888	619	42,269	3,993	8.5	43,286
1982:										
January..	90,441	47,097	52.1	46,913	42,952	713	42,239	3,960	8.4	43,343
February..	90,528	47,308	52.3	47,123	42,932	680	42,251	4,191	8.9	43,220
March....	90,625	47,452	52.4	47,264	43,020	682	42,339	4,243	9.0	43,173
April....	90,718	47,589	52.5	47,401	42,940	647	42,292	4,461	9.4	43,128
May.....	90,813	48,005	52.9	47,817	43,297	691	42,606	4,520	9.5	42,807
June.....	90,900	48,094	52.9	47,904	43,541	633	42,908	4,362	9.1	42,805
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

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	August 1982										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
MALES											
16 years and over	65,589	78.4	63,584	57,644	5,941	9.3	18,038	420	891	1,567	15,161
16 to 21 years	9,195	73.9	8,569	6,943	1,626	19.0	3,250	44	461	38	2,707
16 to 19 years	5,439	67.2	5,191	4,127	1,063	20.5	2,657	39	295	17	2,307
16 to 17 years	2,165	55.6	2,155	1,697	459	21.3	1,731	26	133	7	1,564
18 to 19 years	3,273	77.9	3,035	2,431	605	19.9	926	13	161	9	743
20 to 64 years	58,359	89.6	56,603	51,796	4,807	8.5	6,779	173	596	1,131	4,879
20 to 24 years	9,716	89.1	8,938	7,593	1,346	15.1	1,190	9	325	58	798
25 to 54 years	41,473	94.2	40,497	37,430	3,066	7.6	2,534	119	269	586	1,559
25 to 29 years	9,714	94.9	9,322	8,255	1,067	11.4	527	30	144	69	283
30 to 34 years	8,798	95.3	8,532	7,876	656	7.7	439	26	77	78	258
35 to 39 years	7,364	96.1	7,170	6,638	531	7.4	302	14	21	69	198
40 to 44 years	5,798	94.9	5,710	5,402	308	5.4	313	18	11	97	188
45 to 49 years	4,983	93.0	4,954	4,708	246	5.0	375	10	10	115	240
50 to 54 years	4,816	89.3	4,808	4,549	259	5.4	578	22	5	159	392
55 to 64 years	7,170	70.1	7,168	6,774	395	5.5	3,054	45	2	486	2,521
55 to 59 years	4,428	82.2	4,426	4,181	245	5.5	960	22	1	222	716
60 to 64 years	2,742	56.7	2,742	2,592	150	5.5	2,095	23	1	265	1,806
65 years and over	1,791	17.2	1,791	1,720	70	3.9	8,602	207	--	419	7,975
65 to 69 years	1,033	26.3	1,033	995	38	3.6	2,888	49	--	120	2,719
70 years and over	758	11.7	758	725	33	4.3	5,713	158	--	300	5,256
White											
16 years and over	57,607	79.1	56,067	51,457	4,610	8.2	15,223	341	608	1,218	13,056
16 to 21 years	7,893	76.2	7,411	6,171	1,241	16.7	2,461	31	327	24	2,079
16 to 19 years	4,698	69.9	4,501	3,690	811	18.0	2,022	30	206	8	1,778
16 to 17 years	1,906	59.0	1,897	1,528	369	19.4	1,322	21	86	1	1,214
18 to 19 years	2,792	80.0	2,604	2,162	442	17.0	700	9	120	6	564
20 to 64 years	51,273	90.4	49,929	46,191	3,738	7.5	5,429	139	401	869	4,020
20 to 24 years	8,312	90.6	7,737	6,706	1,030	13.3	861	2	227	42	590
25 to 54 years	36,451	95.1	35,685	33,313	2,372	6.6	1,890	98	172	422	1,198
25 to 29 years	16,097	95.9	15,598	14,314	1,284	8.2	687	46	149	93	399
30 to 34 years	11,583	96.1	11,348	10,691	657	5.8	465	27	15	124	299
35 to 44 years	8,771	92.2	8,739	8,308	431	4.9	738	24	8	206	500
55 to 64 years	6,509	70.3	6,508	6,171	336	5.2	2,679	40	2	405	2,232
55 to 59 years	4,008	83.0	4,007	3,797	210	5.2	819	21	1	183	615
60 to 64 years	2,501	57.3	2,500	2,374	126	5.0	1,860	19	1	223	1,617
65 years and over	1,637	17.4	1,637	1,577	61	3.7	7,771	172	--	341	7,258
Black and other											
16 years and over	7,981	73.9	7,517	6,186	1,331	17.7	2,815	78	283	348	2,106
16 to 21 years	1,302	62.3	1,158	772	386	33.3	789	13	134	14	628
16 to 19 years	741	53.8	690	437	252	36.6	635	9	89	9	529
16 to 17 years	260	38.8	259	168	90	34.9	409	5	48	6	350
18 to 19 years	481	68.0	431	269	162	37.6	226	4	41	3	179
20 to 64 years	7,088	84.0	6,674	5,606	1,069	16.0	1,349	34	195	262	860
20 to 24 years	1,404	81.0	1,202	886	316	26.3	330	7	98	16	209
25 to 54 years	5,023	88.6	4,812	4,116	695	14.4	645	21	96	164	362
25 to 29 years	2,415	89.7	2,256	1,818	439	19.4	278	9	73	54	142
30 to 34 years	1,579	91.3	1,531	1,349	182	11.9	151	4	17	42	87
35 to 44 years	1,029	82.7	1,024	950	74	7.2	215	9	6	68	133
55 to 64 years	661	63.8	661	602	58	8.8	375	5	--	81	289
55 to 59 years	419	74.9	419	385	34	3.2	140	1	--	39	101
60 to 64 years	241	50.7	241	218	24	9.8	235	4	--	42	188
65 years and over	153	15.6	153	143	10	6.5	831	35	--	78	717

HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	August 1982										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
FEMALES											
16 years and over	48,495	53.2	48,302	43,533	4,769	9.9	42,586	31,936	774	1,069	8,808
16 to 21 years	7,755	63.8	7,687	6,296	1,391	18.1	4,398	1,491	447	18	2,442
16 to 19 years	4,680	59.4	4,654	3,703	951	20.4	3,200	792	290	10	2,108
16 to 17 years	1,832	48.5	1,832	1,443	389	21.2	1,947	316	121	6	1,504
18 to 19 years	2,848	69.5	2,822	2,260	562	19.9	1,252	476	168	4	605
20 to 64 years	42,653	62.6	42,486	38,710	3,777	8.9	25,488	21,167	483	475	3,363
20 to 24 years	7,850	72.7	7,757	6,684	1,073	13.8	2,949	2,032	249	20	648
25 to 54 years	29,940	65.6	29,866	27,403	2,464	8.3	15,695	13,559	227	238	1,672
25 to 29 years	7,162	69.1	7,113	6,370	744	10.5	3,209	2,755	93	34	327
30 to 34 years	6,248	66.2	6,231	5,639	592	9.5	3,191	2,790	66	31	304
35 to 39 years	5,221	66.0	5,216	4,814	402	7.7	2,694	2,341	32	32	289
40 to 44 years	4,307	67.5	4,305	4,003	302	7.0	2,076	1,802	16	31	226
45 to 49 years	3,615	63.7	3,614	3,412	203	5.6	2,061	1,767	12	47	234
50 to 54 years	3,387	57.9	3,387	3,165	222	6.5	2,465	2,104	8	62	291
55 to 64 years	4,863	41.5	4,863	4,623	240	4.9	6,844	5,576	7	217	1,044
55 to 59 years	3,003	49.6	3,003	2,852	151	5.0	3,051	2,574	6	104	366
60 to 64 years	1,860	32.9	1,860	1,771	89	4.8	3,793	3,002	1	112	678
65 years and over	1,162	7.7	1,162	1,121	41	3.5	13,898	9,977	1	584	3,336
65 to 69 years	708	14.4	708	681	28	3.9	4,197	3,163	--	99	936
70 years and over	453	4.5	453	440	13	2.9	9,701	6,814	2	485	2,399
White											
16 years and over	41,430	52.9	41,294	37,732	3,562	8.6	36,953	28,200	508	827	7,417
16 to 21 years	6,721	66.7	6,674	5,668	1,006	15.1	3,359	1,141	297	10	1,911
16 to 19 years	4,070	62.6	4,052	3,364	688	17.0	2,434	586	184	5	1,658
16 to 17 years	1,607	51.8	1,607	1,300	307	19.1	1,495	228	78	2	1,188
18 to 19 years	2,463	72.4	2,446	2,064	381	15.6	939	359	107	3	470
20 to 64 years	36,320	62.3	36,202	33,362	2,840	7.8	21,958	18,491	323	349	2,796
20 to 24 years	6,715	74.4	6,650	5,875	775	11.7	2,305	1,654	166	14	472
25 to 54 years	25,325	65.2	25,271	23,414	1,857	7.3	13,510	11,761	154	173	1,424
25 to 29 years	11,215	67.4	11,168	10,204	963	8.6	5,425	4,748	107	48	521
30 to 34 years	8,044	66.0	8,039	7,500	539	6.7	4,146	3,620	29	47	450
35 to 44 years	6,065	60.6	6,065	5,710	355	5.9	3,940	3,393	18	77	453
55 to 64 years	4,281	41.1	4,281	4,074	207	4.8	6,142	5,077	3	161	901
55 to 59 years	2,637	49.2	2,637	2,503	134	5.1	2,720	2,323	2	78	316
60 to 64 years	1,644	32.5	1,644	1,571	73	4.5	3,422	2,753	1	83	585
65 years and over	1,039	7.5	1,039	1,005	34	3.3	12,561	9,123	1	473	2,964
Black and other											
16 years and over	7,065	55.5	7,009	5,802	1,207	17.2	5,633	3,736	266	242	1,390
16 to 21 years	1,034	49.9	1,014	628	386	38.0	1,040	350	150	9	531
16 to 19 years	610	44.3	602	339	263	43.7	766	205	105	5	450
16 to 17 years	226	33.3	225	143	83	36.6	452	88	44	4	316
18 to 19 years	384	55.1	377	196	181	48.0	313	117	61	1	134
20 to 64 years	6,332	64.2	6,284	5,347	937	14.9	3,531	2,677	160	126	568
20 to 24 years	1,135	63.8	1,107	809	298	26.9	644	379	83	6	176
25 to 54 years	4,615	67.9	4,595	3,989	606	13.2	2,185	1,798	73	65	248
25 to 29 years	2,195	69.2	2,176	1,804	373	17.1	976	797	52	16	111
30 to 34 years	1,483	70.4	1,482	1,318	164	11.1	623	524	18	16	65
35 to 44 years	937	61.5	937	867	69	7.4	585	478	3	33	72
55 to 64 years	582	45.3	582	549	32	5.6	702	499	4	55	144
55 to 59 years	366	52.5	366	349	17	4.6	331	251	4	26	50
60 to 64 years	216	36.8	216	200	15	7.1	371	249	--	29	93
65 years and over	123	8.4	123	116	7	5.7	1,337	854	--	111	372

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	
	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
MALES								
16 years and over	65,158	65,589	78.9	78.4	63,178	63,584	78.4	77.9
16 to 19 years	5,743	5,439	68.8	67.2	5,472	5,191	67.8	66.1
16 to 17 years	2,378	2,165	58.1	55.6	2,365	2,155	58.0	55.5
18 to 19 years	3,365	3,273	79.1	77.9	3,107	3,035	77.8	76.6
20 to 24 years	9,809	9,716	90.1	89.1	9,049	8,938	89.4	88.2
25 to 54 years	40,606	41,473	94.4	94.2	39,658	40,497	94.2	94.1
25 to 34 years	18,227	18,512	95.2	95.0	17,587	17,854	95.1	94.9
35 to 44 years	12,477	13,162	95.5	95.5	12,205	12,880	95.4	95.4
45 to 54 years	9,902	9,799	91.5	91.1	9,866	9,762	91.5	91.1
55 to 64 years	7,139	7,170	70.2	70.1	7,137	7,168	70.2	70.1
55 to 59 years	4,384	4,428	80.8	82.2	4,383	4,426	80.8	82.2
60 to 64 years	2,755	2,742	58.1	56.7	2,755	2,742	58.1	56.7
65 years and over	1,862	1,791	18.3	17.2	1,862	1,791	18.3	17.2
White								
16 years and over	57,438	57,607	79.6	79.1	55,911	56,067	79.2	78.6
16 to 19 years	5,001	4,698	71.9	69.9	4,790	4,501	71.0	69.0
16 to 17 years	2,083	1,906	61.1	59.0	2,072	1,897	61.0	58.9
18 to 19 years	2,917	2,792	82.2	80.0	2,718	2,604	81.1	78.8
20 to 24 years	8,417	8,312	91.3	90.6	7,856	7,737	90.7	90.0
25 to 54 years	35,830	36,451	95.3	95.1	35,076	35,685	95.2	95.0
25 to 34 years	15,940	16,097	96.2	95.9	15,445	15,598	96.1	95.8
35 to 44 years	11,006	11,583	96.3	96.1	10,779	11,348	96.2	96.1
45 to 54 years	8,884	8,771	92.6	92.2	8,852	8,739	92.6	92.2
55 to 64 years	6,485	6,509	70.9	70.8	6,483	6,508	70.9	70.8
55 to 59 years	3,982	4,008	82.0	83.0	3,981	4,007	82.0	83.0
60 to 64 years	2,502	2,501	58.4	57.3	2,502	2,500	58.4	57.3
65 years and over	1,706	1,637	18.5	17.4	1,706	1,637	18.5	17.4
Black and other								
16 years and over	7,720	7,981	73.8	73.9	7,267	7,517	72.6	72.8
16 to 19 years	742	741	53.5	53.8	682	690	51.4	52.1
16 to 17 years	295	260	43.0	38.8	293	259	42.9	38.7
18 to 19 years	448	481	63.7	68.0	389	431	60.4	65.6
20 to 24 years	1,391	1,404	83.6	81.0	1,193	1,202	81.4	78.5
25 to 54 years	4,776	5,023	87.9	88.6	4,582	4,812	87.4	88.2
25 to 34 years	2,286	2,415	89.0	89.7	2,142	2,256	88.3	89.0
35 to 44 years	1,471	1,579	89.9	91.3	1,426	1,531	89.6	91.0
45 to 54 years	1,018	1,029	82.9	82.7	1,014	1,024	82.9	82.6
55 to 64 years	654	661	64.2	63.8	654	661	64.2	63.8
55 to 59 years	402	419	71.0	74.9	402	419	71.0	74.9
60 to 64 years	252	241	55.6	50.7	252	241	55.6	50.7
65 years and over	156	153	16.3	15.6	156	153	16.3	15.6

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	
	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
FEMALES								
16 years and over	47,101	48,495	52.4	53.2	46,921	48,302	52.3	53.1
16 to 19 years	4,812	4,680	59.2	59.4	4,783	4,654	59.1	59.3
16 to 17 years	1,994	1,832	50.2	48.5	1,993	1,832	50.2	48.5
18 to 19 years	2,818	2,848	67.9	69.5	2,790	2,822	67.6	69.3
20 to 24 years	7,797	7,850	72.2	72.7	7,710	7,757	71.9	72.5
25 to 54 years	28,613	29,940	64.0	65.6	28,549	29,866	64.0	65.6
25 to 34 years	12,832	13,410	65.9	67.7	12,774	13,344	65.8	67.6
35 to 44 years	8,858	9,528	65.2	66.6	8,853	9,521	65.2	66.6
45 to 54 years	6,924	7,002	59.6	60.7	6,923	7,001	59.6	60.7
55 to 64 years	4,734	4,863	40.7	41.5	4,734	4,863	40.7	41.5
55 to 59 years	3,029	3,003	49.7	49.6	3,029	3,003	49.7	49.6
60 to 64 years	1,706	1,860	30.9	32.9	1,706	1,860	30.9	32.9
65 years and over	1,144	1,162	7.8	7.7	1,144	1,162	7.8	7.7
White								
16 years and over	40,406	41,430	52.0	52.9	40,276	41,294	52.0	52.8
16 to 19 years	4,272	4,070	63.4	62.6	4,252	4,052	63.3	62.5
16 to 17 years	1,764	1,607	53.8	51.8	1,764	1,607	53.8	51.8
18 to 19 years	2,508	2,463	72.5	72.4	2,488	2,446	72.4	72.3
20 to 24 years	6,665	6,715	73.8	74.4	6,603	6,650	73.6	74.3
25 to 54 years	24,279	25,325	63.5	65.2	24,231	25,271	63.5	65.2
25 to 34 years	10,721	11,215	65.2	67.4	10,679	11,168	65.1	67.3
35 to 44 years	7,548	8,044	64.7	66.0	7,544	8,039	64.7	66.0
45 to 54 years	6,010	6,065	59.5	60.6	6,009	6,065	59.5	60.6
55 to 64 years	4,178	4,281	40.3	41.1	4,178	4,281	40.3	41.1
55 to 59 years	2,684	2,637	49.7	49.2	2,684	2,637	49.7	49.2
60 to 64 years	1,494	1,644	30.1	32.5	1,494	1,644	30.1	32.5
65 years and over	1,012	1,039	7.6	7.6	1,012	1,039	7.6	7.6
Black and other								
16 years and over	6,695	7,065	54.5	55.6	6,645	7,009	54.3	55.4
16 to 19 years	540	610	38.9	44.3	531	602	38.5	44.0
16 to 17 years	229	226	33.1	33.3	229	225	33.1	33.3
18 to 19 years	311	384	44.7	55.1	302	377	44.0	54.6
20 to 24 years	1,132	1,135	63.8	63.8	1,107	1,107	63.3	63.2
25 to 54 years	4,334	4,615	67.0	67.9	4,318	4,595	66.9	67.8
25 to 34 years	2,111	2,195	69.5	69.2	2,095	2,176	69.4	69.0
35 to 44 years	1,310	1,483	68.2	70.4	1,309	1,482	68.2	70.4
45 to 54 years	914	937	60.4	61.5	914	937	60.4	61.5
55 to 64 years	557	582	44.2	45.3	556	582	44.2	45.3
55 to 59 years	345	366	49.8	52.5	345	366	49.8	52.5
60 to 64 years	212	216	37.3	36.8	212	216	37.3	36.8
65 years and over	132	123	9.4	8.4	132	123	9.4	8.4

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex and age	August 1982						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
TOTAL							
16 years and over	11,639	9,441	189	9,252	2,197	18.9	6,988
16 to 19 years	1,046	594	24	570	452	43.2	1,199
16 to 17 years	386	240	12	228	146	37.9	725
18 to 19 years	660	354	11	342	306	46.3	475
20 to 24 years	1,911	1,358	30	1,328	553	28.9	792
25 to 54 years	7,424	6,322	94	6,229	1,102	14.8	2,198
25 to 34 years	3,509	2,815	26	2,789	694	19.8	943
35 to 44 years	2,326	2,033	30	2,003	292	12.6	580
45 to 54 years	1,590	1,473	38	1,436	116	7.3	675
55 to 64 years	1,027	949	24	925	78	7.6	909
55 to 59 years	548	596	17	579	47	7.3	397
60 to 64 years	384	353	8	345	32	8.3	512
65 years and over	231	219	18	201	12	5.2	1,890
Males							
16 years and over	5,931	4,796	163	4,633	1,134	19.1	2,371
16 to 19 years	548	325	21	304	223	40.7	546
16 to 17 years	205	127	12	115	78	38.0	347
18 to 19 years	343	198	8	189	145	42.3	201
20 to 24 years	978	704	27	677	274	28.0	250
25 to 54 years	3,753	3,172	76	3,098	581	15.5	530
25 to 34 years	1,775	1,409	22	1,387	366	20.6	214
35 to 44 years	1,167	1,008	21	986	158	13.5	124
45 to 54 years	811	755	32	724	56	6.9	192
55 to 64 years	532	481	24	456	51	9.6	316
55 to 59 years	337	305	17	287	32	9.5	120
60 to 64 years	195	176	8	168	20	10.3	196
65 years and over	121	115	17	98	6	5.0	728
Females							
16 years and over	5,708	4,645	26	4,619	1,063	18.6	4,617
16 to 19 years	498	269	3	266	229	46.0	653
16 to 17 years	181	113	--	113	68	37.5	378
18 to 19 years	317	156	3	153	161	50.8	274
20 to 24 years	933	654	3	651	279	29.9	542
25 to 54 years	3,671	3,150	18	3,131	521	14.2	1,668
25 to 34 years	1,734	1,406	4	1,402	328	18.9	729
35 to 44 years	1,159	1,025	9	1,017	134	11.5	456
45 to 54 years	779	718	6	712	60	7.8	483
55 to 64 years	495	468	--	469	27	5.4	593
55 to 59 years	306	291	--	292	15	4.8	277
60 to 64 years	189	177	--	177	12	6.5	316
65 years and over	110	104	1	103	6	5.5	1,162

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	
	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
TOTAL								
Total noninstitutional population	172,559	174,707	74,268	75,531	81,822	83,201	16,469	15,976
Total labor force	112,259	114,083	59,415	60,150	42,289	43,815	10,555	10,119
Percent of population	65.1	65.3	80.0	79.6	51.7	52.7	64.1	63.3
Civilian labor force	110,099	111,887	57,706	58,394	42,137	43,648	10,255	9,845
Employed	102,152	101,177	54,416	53,516	39,162	39,831	8,574	7,830
Agriculture	3,864	3,916	2,589	2,611	717	688	557	617
Nonagricultural industries	98,288	97,262	51,827	50,905	38,445	39,143	8,016	7,213
Unemployed	7,947	10,710	3,290	4,877	2,975	3,818	1,682	2,015
Percent of labor force	7.2	9.6	5.7	8.4	7.1	8.7	16.4	20.5
Not in labor force	60,300	60,624	14,853	15,381	39,533	39,386	5,913	5,857
White								
Total noninstitutional population	149,802	151,213	65,195	66,110	70,915	71,878	13,692	13,224
Total labor force	97,844	99,037	52,438	52,910	36,134	37,359	9,273	8,768
Percent of population	65.3	65.5	80.4	80.3	51.0	52.0	67.7	66.3
Civilian labor force	96,187	97,361	51,122	51,566	36,024	37,241	9,041	8,553
Employed	90,279	89,189	48,625	47,763	33,863	34,367	7,791	7,054
Agriculture	3,606	3,637	2,416	2,407	670	645	521	584
Nonagricultural industries	86,673	85,552	46,210	45,361	33,193	33,722	7,270	6,469
Unemployed	5,908	8,172	2,496	3,793	2,161	2,874	1,251	1,499
Percent of labor force	6.1	8.4	4.9	7.4	6.0	7.7	13.8	17.5
Not in labor force	51,958	52,175	12,757	13,200	34,781	34,519	4,419	4,456
Black and other								
Total noninstitutional population	22,757	23,495	9,073	9,421	10,907	11,323	2,776	2,751
Total labor force	14,415	15,046	6,978	7,241	6,155	6,455	1,282	1,350
Percent of population	63.3	64.0	76.9	76.9	56.4	57.0	46.2	49.1
Civilian labor force	13,913	14,526	6,585	6,827	6,114	6,407	1,214	1,292
Employed	11,873	11,988	5,790	5,749	5,300	5,463	783	776
Agriculture	257	279	173	204	48	42	37	32
Nonagricultural industries	11,616	11,709	5,618	5,544	5,252	5,421	746	744
Unemployed	2,040	2,538	794	1,073	814	944	431	516
Percent of labor force	14.7	17.5	12.1	15.8	13.3	14.7	35.5	39.9
Not in labor force	8,342	8,449	2,096	2,180	4,752	4,868	1,494	1,401

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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	August 1982								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	24,599	12,446	12,153	20,434	10,354	10,080	4,165	2,091	2,074
Total labor force	16,950	9,195	7,755	14,614	7,893	6,721	2,336	1,302	1,034
Percent of population	68.9	73.9	63.8	71.5	76.2	66.7	56.1	62.3	49.9
Civilian labor force	16,256	8,569	7,687	14,085	7,411	6,674	2,171	1,158	1,014
Employed	13,239	6,943	6,296	11,839	6,171	5,668	1,400	772	628
Agriculture	858	700	158	808	657	152	50	44	6
Nonagricultural industries	12,380	6,242	6,138	11,030	5,514	5,516	1,350	728	622
Unemployed	3,017	1,626	1,391	2,246	1,241	1,006	771	386	386
Looking for full-time work	2,175	1,218	957	1,586	902	684	589	316	272
Looking for part-time work	843	408	435	660	339	321	183	69	113
Percent of labor force	18.6	19.0	18.1	15.9	16.7	15.1	35.5	33.3	38.0
Not in labor force	7,649	3,250	4,398	5,820	2,461	3,359	1,829	789	1,040
Major activity: going to school									
Civilian labor force	191	86	106	154	86	78	27	--	28
Employed	111	51	60	100	53	47	10	--	12
Agriculture	6	6	--	7	7	--	--	--	--
Nonagricultural industries	104	45	59	93	47	47	11	--	13
Unemployed	81	35	46	64	33	31	17	2	15
Looking for full-time work	21	8	12	14	9	5	7	--	7
Looking for part-time work	60	26	34	50	24	26	10	2	8
Percent of labor force	42.2	40.4	43.7	38.9	38.2	39.7	(1)	--	(1)
Not in labor force	908	461	447	623	327	297	284	134	150
Major activity: other									
Civilian labor force	16,065	8,483	7,581	13,921	7,325	6,595	2,144	1,158	986
Employed	13,128	6,891	6,236	11,738	6,117	5,621	1,390	774	616
Agriculture	852	694	157	802	650	151	50	44	6
Nonagricultural industries	12,276	6,197	6,079	10,937	5,467	5,470	1,339	730	609
Unemployed	2,937	1,592	1,345	2,182	1,208	974	754	384	371
Looking for full-time work	2,154	1,209	944	1,572	893	679	581	316	265
Looking for part-time work	783	382	401	610	315	295	173	68	106
Percent of labor force	18.3	18.8	17.7	15.7	16.5	14.8	35.2	33.2	37.6
Not in labor force	6,741	2,789	3,951	5,197	2,135	3,062	1,544	655	889

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

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

[Numbers in thousands]

Sex, age, and race	August 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.....	97,960	81,956	6,862	9,142	9.3	13,927	12,359	1,568	11.3
16 to 21 years.....	12,265	7,717	2,373	2,175	17.7	3,992	3,449	843	21.1
16 to 19 years.....	6,697	3,720	1,710	1,267	18.9	3,148	2,400	748	23.8
16 to 17 years.....	2,059	963	761	335	16.3	1,929	1,415	513	26.6
18 to 19 years.....	4,638	2,757	949	932	20.1	1,219	985	235	19.2
20 years and over.....	91,263	78,236	5,152	7,875	8.6	10,779	9,959	820	7.6
20 to 24 years.....	14,908	11,313	1,397	2,198	14.7	1,787	1,566	221	12.4
25 years and over.....	76,354	66,923	3,754	5,677	7.4	8,992	8,392	599	6.7
25 to 54 years.....	64,271	56,087	3,117	5,067	7.9	6,092	5,628	463	7.6
55 years and over.....	12,083	10,836	637	610	5.0	2,900	2,764	136	4.7
Males, 16 years and over.....	59,424	50,601	3,501	5,322	9.0	4,160	3,542	618	14.9
16 to 21 years.....	6,737	4,298	1,221	1,218	18.1	1,832	1,423	408	22.3
16 to 19 years.....	3,702	2,133	878	691	18.7	1,489	1,117	372	25.0
20 years and over.....	55,723	48,469	2,623	4,631	8.3	2,671	2,425	246	9.2
20 to 24 years.....	8,302	6,289	740	1,272	15.3	636	563	73	11.5
25 years and over.....	47,421	42,179	1,883	3,359	7.1	2,034	1,862	173	8.5
25 to 54 years.....	39,623	33,117	1,538	2,968	7.5	1,874	1,775	98	11.2
55 years and over.....	7,798	7,063	345	391	5.0	1,161	1,087	75	6.5
Females, 16 years and over.....	38,535	31,355	3,361	3,819	9.9	9,767	8,817	950	9.7
16 to 21 years.....	5,527	3,419	1,152	957	17.3	2,160	1,725	435	20.1
16 to 19 years.....	2,996	1,587	833	576	19.2	1,659	1,283	376	22.6
20 years and over.....	35,540	29,768	2,529	3,243	9.1	8,108	7,534	574	7.1
20 to 24 years.....	6,607	5,024	657	926	14.0	1,151	1,003	147	12.8
25 years and over.....	28,933	24,744	1,872	2,318	8.0	6,958	6,532	427	6.1
25 to 54 years.....	24,649	20,970	1,580	2,099	8.5	5,219	4,854	365	7.0
55 years and over.....	4,285	3,774	292	219	5.1	1,739	1,678	62	3.6
White									
Males, 16 years and over.....	52,419	45,370	2,930	4,119	7.9	3,648	3,157	491	13.5
16 to 21 years.....	5,796	3,875	1,019	902	15.6	1,615	1,276	339	21.0
16 to 19 years.....	3,190	1,941	744	505	15.8	1,310	1,004	306	23.4
20 years and over.....	49,229	43,429	2,186	3,614	7.3	2,338	2,153	185	7.9
20 to 24 years.....	7,177	5,606	596	974	13.6	560	504	56	10.0
25 years and over.....	42,051	37,823	1,589	2,639	6.3	1,778	1,649	129	7.3
25 to 54 years.....	34,951	31,349	1,295	2,306	6.6	1,734	1,669	65	8.9
55 years and over.....	7,101	6,474	294	333	4.7	1,044	980	64	6.1
Females, 16 years and over.....	32,400	26,832	2,764	2,803	8.7	8,894	8,135	759	8.5
16 to 21 years.....	4,755	3,042	1,029	684	14.4	1,918	1,597	321	16.8
16 to 19 years.....	2,594	1,437	745	413	15.9	1,458	1,183	276	18.9
20 years and over.....	29,806	25,395	2,020	2,391	8.0	7,436	6,952	483	6.5
20 to 24 years.....	5,620	4,409	553	657	11.7	1,030	912	118	11.5
25 years and over.....	24,186	20,986	1,466	1,734	7.2	6,405	6,041	365	5.7
25 to 54 years.....	20,428	17,647	1,239	1,542	7.5	4,843	4,528	315	6.5
55 years and over.....	3,758	3,339	227	192	5.1	1,562	1,513	49	3.1
Black and other									
Males, 16 years and over.....	7,005	5,231	571	1,204	17.2	512	385	127	24.8
16 to 21 years.....	941	423	202	316	33.6	217	147	69	32.0
16 to 19 years.....	511	191	133	186	36.5	179	113	66	36.9
20 years and over.....	6,494	5,039	437	1,017	15.7	333	272	61	18.3
20 to 24 years.....	1,125	683	144	298	26.5	76	59	17	22.8
25 years and over.....	5,368	4,356	293	719	13.4	256	213	43	16.8
25 to 54 years.....	4,672	3,767	244	661	14.1	139	106	33	23.7
55 years and over.....	696	593	50	57	8.2	117	107	10	8.5
Females, 16 years and over.....	6,136	4,523	597	1,016	16.6	873	682	191	21.9
16 to 21 years.....	772	377	123	272	35.3	241	128	113	46.9
16 to 19 years.....	402	150	88	163	40.7	200	100	100	49.9
20 years and over.....	5,734	4,372	509	853	14.9	673	582	91	13.5
20 to 24 years.....	987	615	103	269	27.2	120	91	29	24.5
25 years and over.....	4,746	3,757	405	583	12.3	553	491	62	11.2
25 to 54 years.....	4,220	3,322	340	557	13.2	376	326	50	13.3
55 years and over.....	527	435	65	27	5.1	178	165	13	7.3

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	August 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	111,887	64.9	101,177	10,710	9.6	60,624	32,356	1,664	2,635	23,969
Husbands	39,970	80.1	37,551	2,419	6.1	9,953	159	127	890	8,777
With employed wife	21,507	92.1	20,339	1,168	5.4	1,857	56	63	300	1,439
With unemployed wife	1,793	93.3	1,469	325	18.1	129	11	4	14	99
With wife not in labor force	16,670	67.7	15,744	926	5.6	7,967	92	60	576	7,239
Wives	25,286	50.7	23,364	1,922	7.6	24,637	21,447	131	287	2,772
With employed husband	21,807	58.1	20,339	1,469	6.7	15,744	14,149	97	99	1,399
With unemployed husband	1,493	61.7	1,168	325	21.7	926	872	14	5	34
With husband not in labor force	1,986	20.0	1,857	129	6.5	7,967	6,427	19	182	1,339
Relatives in married-couple families	15,483	69.2	12,917	2,567	16.6	6,900	1,070	763	284	4,782
16 to 19 years	6,806	63.7	5,566	1,240	18.2	3,885	319	373	17	3,176
20 to 24 years	5,852	81.8	4,941	911	15.6	1,298	163	335	35	765
25 years and over	2,822	62.2	2,410	416	14.7	1,717	588	55	232	841
Females who maintain families	5,846	60.8	5,143	703	12.0	3,766	2,945	66	139	615
Relatives in families maintained by females	5,176	61.0	3,957	1,219	23.6	3,308	914	247	255	1,892
16 to 19 years	1,617	55.8	1,133	483	29.9	1,281	179	148	7	946
20 to 24 years	1,610	76.4	1,205	405	25.2	497	134	68	22	273
25 years and over	1,949	56.0	1,619	331	17.0	1,530	601	31	226	673
Males who maintain families	1,755	74.8	1,617	139	7.9	591	24	20	76	470
Relatives in families maintained by males	1,442	60.2	1,171	270	18.8	954	399	63	66	426
16 to 19 years	321	59.4	206	115	35.7	219	25	26	-	169
20 to 24 years	460	77.4	372	88	19.1	134	45	28	2	59
25 years and over	661	52.4	593	67	10.1	601	329	9	64	198
Persons living alone	10,342	53.6	9,635	707	6.8	8,963	4,864	106	521	3,473
Males	5,456	71.9	4,996	459	8.4	2,137	132	57	233	1,715
Females	4,886	41.7	4,639	247	5.1	6,826	4,731	49	288	1,752
All others ¹	6,587	80.9	5,822	764	11.6	1,552	534	141	117	62

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	
	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
Total, 16 years and over	4,173	5,941	6.6	9.3	3,774	4,769	8.0	9.9
Married, spouse present	1,531	2,567	3.8	6.3	1,517	2,021	6.1	7.9
Widowed, divorced, or separated	480	609	8.7	11.0	788	918	8.7	9.9
Single (never married)	2,161	2,764	12.7	16.2	1,469	1,830	11.3	13.7
White, 16 years and over	3,137	4,610	5.6	8.2	2,771	3,562	6.9	8.6
Married, spouse present	1,251	2,135	3.4	5.8	1,288	1,729	5.8	7.6
Widowed, divorced, or separated	342	461	7.6	10.1	537	669	7.4	8.9
Single (never married)	1,544	2,013	10.7	13.9	946	1,164	8.7	10.5
Black and other, 16 years and over	1,036	1,331	14.3	17.7	1,003	1,207	15.1	17.2
Married, spouse present	280	432	7.5	10.9	229	292	8.6	10.2
Widowed, divorced, or separated	138	148	14.3	15.3	251	249	13.9	13.8
Single (never married)	618	751	24.3	29.0	523	665	24.1	28.5
Total, 20 to 64 years of age	3,248	4,807	5.8	8.5	2,933	3,777	7.2	8.9
Married, spouse present	1,486	2,502	3.9	6.4	1,447	1,932	6.0	7.8
Widowed, divorced, or separated	472	590	9.0	11.2	737	878	8.8	10.2
Single (never married)	1,290	1,714	11.1	14.3	749	968	8.8	10.8
White, 20 to 64 years of age	2,462	3,738	5.0	7.5	2,125	2,840	6.1	7.8
Married, spouse present	1,213	2,074	3.4	5.8	1,220	1,642	5.7	7.4
Widowed, divorced, or separated	336	447	7.8	10.2	495	637	7.5	9.3
Single (never married)	914	1,217	9.3	12.1	410	562	6.0	7.8
Black and other, 20 to 64 years of age	785	1,069	12.2	16.0	808	937	13.5	14.9
Married, spouse present	273	428	7.5	11.1	226	289	8.7	10.3
Widowed, divorced, or separated	137	143	14.8	15.5	243	241	14.1	14.0
Single (never married)	376	497	20.2	26.1	339	406	20.4	23.1

A-11. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Aug. 1961	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
Total, 16 years and over	7,947	10,710	7.2	9.6	6.6	9.3	8.0	9.9
White-collar workers	2,296	2,851	4.2	5.1	2.7	3.7	5.4	6.2
Professional and technical	528	660	3.2	3.9	2.3	3.3	4.4	4.6
Managers and administrators, except farm	291	419	2.4	3.4	1.8	2.8	4.1	4.9
Sales workers	309	381	4.5	5.4	3.3	4.8	5.9	6.1
Clerical workers	1,169	1,391	5.9	7.0	5.0	5.7	6.1	7.3
Blue-collar workers	3,148	4,593	8.8	13.1	8.2	12.4	11.2	16.0
Craft and kindred workers	846	1,296	6.1	9.3	6.1	9.3	6.2	9.5
Carpenters and other construction craft workers	457	559	10.3	12.6	10.1	12.6	17.2	15.7
All other	389	737	4.1	7.7	4.1	7.6	4.7	8.7
Operatives, except transport	1,344	1,949	11.3	17.1	10.2	16.7	12.1	17.7
Transport equipment operatives	305	462	7.9	12.3	7.8	12.3	9.8	12.6
Nonfarm laborers	654	885	11.1	14.7	11.1	14.5	11.5	16.2
Construction laborers	185	269	15.6	24.3	15.7	24.3	(1)	(1)
All other	469	616	10.0	12.5	9.7	12.0	11.5	16.0
Service workers	1,312	1,676	8.3	10.6	9.3	11.2	8.6	10.2
Private household	60	71	5.5	6.2	(1)	(1)	5.4	6.0
All other	1,252	1,605	9.1	11.0	9.3	11.2	9.0	10.8
Farm workers	148	189	4.5	5.8	3.7	4.9	7.6	9.2
No previous work experience	1,044	1,401	--	--	--	--	--	--
16 to 19 years	791	1,052	--	--	--	--	--	--
20 to 24 years	170	235	--	--	--	--	--	--
25 years and over	83	114	--	--	--	--	--	--

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	
	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
Total, 16 years and over	100.0	100.0	7.2	9.6	6.6	9.3	8.0	9.9
Nonagricultural private wage and salary workers	71.4	74.5	7.3	9.7	6.6	9.9	7.4	9.4
Mining	.8	1.5	5.5	14.7	5.5	16.1	6.4	6.5
Construction	8.5	7.8	12.4	16.0	12.7	16.4	8.7	11.0
Manufacturing	20.8	25.5	7.0	12.0	6.0	11.1	9.1	13.8
Durable goods	11.9	16.8	6.8	13.3	6.1	12.5	8.6	15.4
Lumber and wood products	.7	.9	7.3	14.5	6.4	12.5	12.5	24.9
Furniture and fixtures	.6	.7	8.1	13.7	6.8	13.7	11.5	13.5
Stone, clay, and glass products	.5	.6	6.3	10.3	6.8	10.2	4.3	10.6
Primary metal industries	1.1	2.4	7.1	21.8	6.9	21.0	8.2	28.5
Fabricated metal products	1.5	2.0	8.3	15.4	6.7	14.4	13.6	18.7
Machinery, except electrical equipment	2.2	3.4	5.7	12.8	4.9	12.8	8.5	12.6
Electrical equipment	1.8	2.4	5.8	9.7	4.1	5.9	7.8	14.5
Transportation equipment	2.6	3.1	8.8	15.6	8.4	14.0	10.7	23.2
Automobiles	1.9	2.0	12.8	21.8	11.5	19.1	19.4	35.2
Other transportation equipment	.7	1.1	4.9	10.3	5.2	9.4	2.8	14.0
Instruments and related products	.3	.6	3.7	8.7	4.3	8.1	2.9	9.5
Other durable goods industries	.6	.8	5.8	10.2	4.8	9.2	8.0	11.9
Nondurable goods	8.9	8.7	7.4	10.1	5.9	8.4	9.5	12.3
Food and kindred products	2.4	2.0	9.1	10.4	7.7	9.9	12.1	11.3
Textile mill products	.9	1.1	8.7	15.0	7.8	13.1	9.6	17.0
Apparel and other textile products	1.8	1.8	10.3	14.5	10.2	10.3	10.3	15.7
Paper and allied products	.3	.4	3.4	5.4	2.7	4.7	5.9	8.0
Printing and publishing	1.0	1.2	5.2	7.8	4.9	8.2	5.7	7.2
Chemicals and allied products	.9	.9	5.1	7.2	3.1	5.6	9.8	11.1
Rubber and plastics products	.9	.7	10.1	9.4	9.2	8.9	11.9	10.1
Other nondurable goods industries	.6	.7	6.4	11.7	5.0	8.8	8.7	16.0
Transportation and public utilities	3.5	3.7	4.6	6.8	5.0	7.0	3.7	6.1
Railroads and railway express	.3	.6	3.5	12.2	3.6	12.4	(1)	(1)
Other transportation	2.7	2.5	7.5	9.7	7.8	9.6	6.7	9.8
Communication and other public utilities	.5	.6	1.7	2.6	1.6	2.1	1.8	3.5
Wholesale and retail trade	19.6	18.9	7.7	9.5	6.4	8.5	9.0	10.6
Finance, insurance, and real estate	2.3	2.9	3.2	5.3	3.1	4.7	3.3	5.7
Service industries	15.9	14.2	6.5	7.4	6.2	8.0	6.7	7.1
Professional services	7.2	6.2	5.2	5.8	4.0	5.5	5.8	5.9
All other service industries	8.7	8.0	8.1	9.6	8.0	10.0	8.3	9.1
Agricultural wage and salary workers	2.5	2.3	9.3	11.9	8.5	10.4	14.9	17.2
All other classes of workers	13.0	10.1	4.1	4.2	3.2	3.4	5.2	5.3
No previous work experience	13.1	13.1	--	--	--	--	--	--

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

HOUSEHOLD DATA

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
NUMBER OF UNEMPLOYED												
Total unemployed, in thousands.....	7,947	10,710	3,290	4,877	2,975	3,818	1,682	2,015	5,908	8,172	2,040	2,538
Job losers.....	3,937	6,042	2,282	3,765	1,335	1,853	319	424	2,942	4,741	994	1,301
On layoff.....	1,192	2,010	700	1,272	419	629	73	109	963	1,675	229	334
Other job losers.....	2,745	4,032	1,582	2,493	916	1,224	246	315	1,979	3,066	765	967
Job leavers.....	995	912	374	340	441	445	180	127	820	742	174	169
Reentrants.....	1,975	2,364	538	635	1,044	1,310	392	419	1,444	1,774	531	589
New entrants.....	1,041	1,393	96	138	155	210	790	1,045	701	914	340	478
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.....	49.5	56.4	69.4	77.2	44.9	48.6	18.9	21.0	49.8	58.0	48.7	51.3
On layoff.....	15.0	18.8	21.3	26.1	14.1	16.5	4.3	5.4	16.3	20.5	11.2	13.2
Other job losers.....	34.5	37.6	48.1	51.1	30.8	32.1	14.6	15.6	33.5	37.5	37.5	38.1
Job leavers.....	12.5	8.5	11.4	7.0	14.8	11.7	10.7	6.3	13.9	9.1	8.5	6.7
Reentrants.....	24.8	22.1	16.4	13.0	35.1	34.3	23.3	20.8	24.4	21.7	26.0	23.2
New entrants.....	13.1	13.0	2.9	2.8	5.2	5.5	47.0	51.9	11.9	11.2	16.7	18.8
UNEMPLOYMENT RATE												
Total unemployment rate.....	7.2	9.6	5.7	8.4	7.1	8.7	16.4	20.5	6.1	8.4	14.7	17.5
Job loser rate ¹	3.6	5.4	3.9	6.5	3.2	4.2	3.1	4.3	3.1	4.8	7.1	9.0
Job leaver rate ¹.....	.9	.8	.6	.6	1.0	1.0	1.8	1.3	.9	.8	1.3	1.2
Reentrant rate ¹	1.8	2.1	.9	1.1	2.5	3.0	3.8	4.3	1.5	1.8	3.8	4.1
New entrant rate ¹.....	.9	1.2	.2	.2	.4	.5	7.7	10.6	.7	.9	2.4	3.3

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	August 1982						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over.....	10,710	100.0	35.3	33.8	30.9	13.5	17.4
Job losers.....	6,042	100.0	30.1	30.1	39.8	17.4	22.4
On layoff.....	2,010	100.0	38.8	33.1	31.0	14.6	16.5
Other job losers.....	4,032	100.0	25.7	30.1	44.2	18.8	25.4
Job leavers.....	912	100.0	44.2	31.0	24.8	10.3	14.6
Reentrants.....	2,364	100.0	45.0	34.9	20.1	8.7	11.4
New entrants.....	1,393	100.0	35.6	50.0	14.5	6.7	7.8
Males, 20 years and over.....	4,877	100.0	30.3	30.2	39.5	15.5	23.9
Job losers.....	3,765	100.0	29.0	28.4	42.6	17.5	25.2
On layoff.....	1,272	100.0	38.3	27.8	33.8	15.8	18.0
Other job losers.....	2,493	100.0	24.2	28.7	47.1	18.3	28.8
Job leavers.....	340	100.0	41.3	30.2	28.5	9.9	18.6
Reentrants.....	635	100.0	31.0	39.2	29.8	10.0	19.8
New entrants.....	138	100.0	38.0	37.1	24.9	2.4	22.5
Females, 20 years and over.....	3,818	100.0	39.8	31.5	28.8	13.9	14.9
Job losers.....	1,853	100.0	28.8	32.8	38.4	18.6	19.8
On layoff.....	629	100.0	37.7	33.9	28.4	14.2	14.2
Other job losers.....	1,224	100.0	24.3	32.2	43.5	20.9	22.7
Job leavers.....	445	100.0	42.6	32.2	25.2	12.6	12.6
Reentrants.....	1,310	100.0	54.0	28.9	17.1	7.9	9.2
New entrants.....	210	100.0	41.3	34.3	24.4	12.8	11.6
Both sexes, 16 to 19 years.....	2,015	100.0	38.7	47.2	14.1	7.7	6.3
Job losers.....	424	100.0	45.2	34.0	20.8	11.8	9.0
On layoff.....	109	100.0	50.9	35.5	13.6	2.8	10.8
Other job losers.....	315	100.0	43.2	33.5	23.3	14.9	8.4
Job leavers.....	127	100.0	57.6	28.8	13.6	3.1	10.5
Reentrants.....	419	100.0	38.0	47.2	14.8	9.3	5.5
New entrants.....	1,045	100.0	34.1	54.8	11.1	6.0	5.0

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

Sex, age, and race	August 1982								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	10,710	8,524	24.0	5.9	79.0	35.0	16.0	4.4	1.64
16 to 19 years	2,015	1,880	15.6	4.3	83.2	29.4	14.1	2.3	1.49
20 to 24 years	2,419	2,043	26.5	6.1	80.4	38.0	14.2	3.7	1.69
25 to 34 years	3,059	2,282	27.0	6.5	77.8	36.2	18.9	4.6	1.71
35 to 44 years	1,543	1,126	26.6	6.7	76.6	37.0	16.6	5.6	1.69
45 to 54 years	929	673	27.2	8.1	76.4	35.1	14.9	6.7	1.68
55 to 64 years	634	454	20.0	4.8	74.2	35.5	17.0	9.5	1.61
65 years and over	111	70	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Males, 16 years and over	5,941	4,504	27.9	5.9	78.3	33.5	18.2	5.5	1.69
16 to 19 years	1,063	966	17.5	3.6	83.1	30.3	16.5	1.4	1.52
20 to 24 years	1,346	1,115	31.6	5.7	79.7	35.8	15.7	4.0	1.73
25 to 34 years	1,723	1,169	31.9	6.2	75.3	36.4	22.2	5.7	1.78
35 to 44 years	839	572	30.6	6.8	78.7	30.1	18.5	7.9	1.73
45 to 54 years	505	360	30.6	10.8	76.4	32.5	14.7	10.6	1.76
55 to 64 years	395	279	22.9	5.0	73.1	32.3	19.4	14.0	1.67
65 years and over	70	42	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	4,769	4,021	19.5	6.0	79.7	36.8	13.6	3.2	1.59
16 to 19 years	951	914	13.8	4.9	83.3	28.2	11.7	3.2	1.45
20 to 24 years	1,073	928	20.5	6.5	81.1	40.7	12.4	3.3	1.65
25 to 34 years	1,336	1,113	21.7	6.8	80.4	36.2	15.3	3.3	1.64
35 to 44 years	704	554	22.4	6.3	74.4	44.2	14.4	3.2	1.65
45 to 54 years	424	310	23.2	4.8	76.5	38.1	15.2	1.9	1.60
55 to 64 years	240	175	15.4	5.1	76.0	40.6	13.1	2.3	1.53
65 years and over	41	27	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over	8,172	6,338	22.2	5.9	79.4	37.2	17.1	4.4	1.66
Males	4,610	3,388	26.4	5.9	78.3	36.0	19.6	6.1	1.72
Females	3,562	2,950	17.4	5.9	80.7	38.5	14.3	2.5	1.59
Black and other, 16 years and over	2,538	2,186	29.0	6.1	77.7	28.9	12.8	4.3	1.59
Males	1,331	1,115	32.6	5.8	78.4	25.7	14.0	3.9	1.60
Females	1,207	1,070	25.4	6.4	77.0	32.2	11.5	4.9	1.57

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

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

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

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

Sex and reason	August 1982								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	10,710	8,524	24.0	5.9	79.0	35.0	16.0	4.4	1.64
Job losers	6,042	4,031	31.1	6.9	80.5	36.6	18.7	5.1	1.79
Job leavers	912	895	21.2	6.5	79.3	40.4	16.1	2.3	1.66
Reentrants	2,364	2,211	16.8	5.2	74.2	35.6	12.7	5.1	1.50
New entrants	1,393	1,386	16.3	4.0	82.0	26.3	13.3	2.7	1.45
Males, 16 years and over	5,941	4,504	27.9	5.9	78.3	33.5	18.2	5.5	1.69
Job losers	4,046	2,694	32.6	7.1	79.1	34.7	20.2	6.2	1.80
Job leavers	409	400	25.7	4.5	81.0	36.5	17.7	2.5	1.68
Reentrants	830	758	20.8	4.7	71.6	33.2	15.0	7.4	1.53
New entrants	656	652	18.4	3.2	81.3	26.4	14.0	2.3	1.46
Females, 16 years and over	4,769	4,021	19.5	6.0	79.7	36.8	13.6	3.2	1.59
Job losers	1,996	1,337	28.2	6.5	83.3	40.2	15.8	2.7	1.77
Job leavers	503	496	17.7	8.1	78.0	43.5	14.7	2.2	1.64
Reentrants	1,534	1,454	14.7	5.4	75.6	36.7	11.6	3.9	1.48
New entrants	737	733	14.5	4.8	82.7	26.1	12.6	3.1	1.44

NOTE: See note, table A-15.

HOUSEHOLD DATA

A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
Total, 16 years and over	7,947	10,710	100.0	100.0	6,511	9,142	100.0	100.0
Less than 5 weeks	3,222	3,778	40.5	35.3	2,402	3,004	36.9	32.9
5 to 14 weeks	2,716	3,624	34.2	33.8	2,231	3,018	34.3	33.0
15 to 26 weeks	1,981	2,563	24.9	23.9	1,615	2,110	24.8	23.1
27 to 51 weeks	735	1,062	9.2	9.9	615	908	9.4	9.9
52 weeks and over	2,010	3,308	25.3	30.9	1,878	3,120	28.8	34.1
Average (mean) duration, in weeks	13.9	15.7	--	--	15.2	16.8	--	--
Median duration, in weeks	7.3	8.7	--	--	8.2	9.5	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
	August 1982								Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
Total, 16 years and over	10,710	3,778	3,624	1,445	1,863	15.7	8.7	40.5	35.3	25.3	30.9
16 to 21 years	3,017	1,154	1,294	276	293	11.7	7.5	42.0	38.2	16.2	18.9
18 to 19 years	2,015	780	952	156	127	10.0	7.5	43.9	38.7	14.1	14.1
20 to 24 years	2,419	923	784	311	401	14.7	7.9	42.2	38.2	23.8	29.4
25 to 34 years	3,059	1,046	946	456	611	16.6	9.4	39.5	34.2	28.0	34.9
35 to 44 years	1,543	509	458	244	332	18.2	10.1	39.5	33.0	29.2	37.3
45 to 54 years	929	287	274	157	211	19.2	10.2	35.0	30.9	34.5	39.6
55 to 64 years	634	199	170	102	164	21.3	11.5	37.1	31.3	36.4	41.9
65 years and over	111	33	41	20	17	17.1	8.5	38.7	29.8	34.5	33.1
Males, 16 years and over	5,941	1,846	1,986	850	1,259	17.8	9.7	36.8	31.1	30.4	35.5
16 to 21 years	1,626	539	722	169	196	13.4	8.3	38.4	33.1	19.3	22.5
18 to 19 years	1,063	367	515	92	90	11.2	8.1	40.0	34.5	16.2	17.1
20 to 24 years	1,346	444	457	183	262	16.5	8.9	38.7	33.0	29.8	33.0
25 to 34 years	1,723	514	515	272	422	18.9	10.7	34.2	29.8	33.5	40.3
35 to 44 years	839	253	221	141	224	21.6	12.0	31.5	30.2	41.2	43.5
45 to 54 years	505	140	148	83	134	21.0	11.7	36.5	27.7	37.1	42.9
55 to 64 years	395	113	102	66	114	23.4	13.0	37.5	28.5	39.8	45.7
65 years and over	70	16	28	14	12	18.1	9.5	(1)	(1)	(1)	(1)
Females, 16 years and over	4,769	1,931	1,638	595	605	12.9	7.5	44.7	40.5	19.6	25.2
16 to 21 years	1,391	615	572	107	97	9.8	6.6	46.0	44.2	12.8	14.6
18 to 19 years	951	413	437	64	37	8.6	6.7	48.2	43.4	11.8	10.6
20 to 24 years	1,073	479	326	129	139	12.4	6.6	46.5	44.7	16.5	24.9
25 to 34 years	1,336	532	431	183	189	13.6	7.7	45.1	39.9	22.1	27.9
35 to 44 years	704	256	236	103	108	14.2	8.7	46.5	36.4	18.9	30.0
45 to 54 years	424	147	126	74	78	17.1	8.7	33.2	34.7	31.6	35.7
55 to 64 years	240	86	68	36	49	17.7	9.4	36.6	35.9	31.6	35.6
65 years and over	41	17	13	6	5	15.2	6.3	(1)	(1)	(1)	(1)
White, 16 years and over	8,172	2,960	2,733	1,088	1,391	15.2	8.4	42.7	36.2	23.9	30.3
Males	4,610	1,465	1,520	661	964	17.4	9.6	38.3	31.8	29.2	35.2
Females	3,562	1,495	1,213	428	427	12.3	6.9	47.8	42.0	18.0	24.0
Black and other, 16 years and over	2,538	818	891	357	472	17.2	9.6	34.1	32.2	29.3	32.7
Males	1,331	381	466	189	295	19.5	10.2	32.3	28.6	34.1	36.4
Females	1,207	437	425	167	177	14.7	8.9	36.0	36.2	24.3	28.6
Males, 16 years and over:											
Married, spouse present	2,567	747	753	438	630	19.7	10.9	38.2	29.1	36.0	41.6
Widowed, divorced, or separated	609	192	175	70	173	21.1	10.6	30.5	31.5	38.3	39.8
Single (never married)	2,764	907	1,058	342	456	15.4	8.9	37.2	32.8	24.7	28.9
Females, 16 years and over:											
Married, spouse present	2,021	876	624	259	262	12.5	6.6	47.0	43.4	19.9	25.8
Widowed, divorced, or separated	918	337	268	139	175	16.9	9.1	40.6	36.7	26.4	34.1
Single (never married)	1,830	718	746	197	168	11.4	7.7	44.5	39.2	15.7	20.0

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

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 6 weeks as a percent of unemployed in group		16 weeks and over as a percent of unemployed in group	
	Total	Less than 6 weeks	6 to 14 weeks	15 to 26 weeks	27 weeks and over			Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
	August 1982										
OCCUPATION											
White-collar workers	2,851	1,070	942	397	442	14.4	8.0	40.0	37.5	22.2	29.4
Professional and managerial	1,079	403	383	125	169	14.2	7.8	33.5	37.3	24.1	27.2
Sales workers	381	126	106	60	89	18.7	9.3	42.3	33.1	20.5	39.1
Clerical workers	1,391	541	454	211	185	13.3	7.8	44.0	38.9	21.4	28.5
Blue-collar workers	4,593	1,467	1,347	737	1,041	18.3	10.3	39.4	31.9	31.4	38.7
Craft and kindred workers	1,296	418	394	198	285	17.4	9.9	39.2	32.3	31.9	37.3
Operatives, except transport	1,949	647	531	356	416	17.8	10.8	41.1	33.2	30.5	39.6
Transport equipment operatives	462	144	140	67	112	20.4	10.0	41.6	31.1	31.2	38.7
Nonfarm laborers	885	258	283	117	227	19.6	10.4	34.9	29.2	32.7	38.9
Service workers	1,676	646	588	201	241	14.2	8.0	44.2	38.5	24.5	26.4
INDUSTRY¹											
Agriculture	250	119	75	20	36	13.5	5.8	52.5	47.6	13.3	22.6
Construction	868	327	252	109	181	15.7	8.2	41.1	37.6	32.5	33.4
Manufacturing	2,731	835	786	501	609	18.4	11.2	39.6	30.6	31.5	40.6
Durable goods	1,797	508	504	347	438	19.4	12.4	37.6	28.3	36.0	43.7
Nondurable goods	934	327	282	154	171	16.6	9.6	42.4	35.0	25.4	34.8
Transportation and public utilities	442	113	160	75	94	19.4	10.7	43.7	25.6	29.9	38.2
Wholesale and retail trade	2,028	734	660	279	355	15.4	8.4	44.1	36.2	23.0	31.2
Finance and service industries	2,391	941	806	285	359	14.3	7.6	39.4	39.4	23.4	26.9
Public administration	231	73	71	28	59	19.5	10.7	29.5	31.6	29.6	37.7
No previous work experience	1,401	502	698	93	108	11.5	7.8	39.1	35.8	16.6	14.4

¹ Includes wage and salary workers only.

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

(In thousands)

Industry and age	Total		Males		Females	
	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
All industries	102,152	101,177	59,005	57,644	43,146	43,533
16 to 19 years	8,574	7,830	4,590	4,127	3,984	3,703
16 to 17 years	3,599	3,139	1,965	1,697	1,634	1,443
18 to 19 years	4,974	4,691	2,624	2,431	2,350	2,260
20 to 24 years	14,835	14,277	7,989	7,593	6,846	6,684
25 to 54 years	64,371	64,833	37,717	37,430	26,654	27,403
25 to 34 years	28,205	28,140	16,475	16,131	11,730	12,008
35 to 44 years	20,096	20,858	11,759	12,040	8,336	8,818
45 to 54 years	16,070	15,835	9,483	9,258	6,588	6,577
55 to 64 years	11,450	11,397	6,890	6,774	4,560	4,623
55 to 59 years	7,158	7,033	4,245	4,181	2,913	2,852
60 to 64 years	4,292	4,363	2,645	2,592	1,647	1,771
65 years and over	2,921	2,841	1,819	1,720	1,102	1,121
Nonegricultural industries	98,288	97,262	55,955	54,529	42,333	42,732
16 to 19 years	8,016	7,213	4,123	3,624	3,888	3,590
16 to 17 years	3,308	2,831	1,720	1,441	1,588	1,390
18 to 19 years	4,708	4,382	2,408	2,183	2,300	2,200
20 to 24 years	14,271	13,736	7,530	7,163	6,741	6,573
25 to 54 years	62,479	62,887	36,293	35,926	26,186	26,962
25 to 34 years	27,428	27,306	15,880	15,453	11,548	11,853
35 to 44 years	19,508	20,271	11,331	11,621	8,177	8,650
45 to 54 years	15,544	15,311	9,082	8,851	6,461	6,459
55 to 64 years	10,908	10,881	6,457	6,360	4,451	4,521
55 to 59 years	6,861	6,757	4,023	3,958	2,838	2,798
60 to 64 years	4,047	4,124	2,434	2,402	1,613	1,723
65 years and over	2,614	2,543	1,548	1,456	1,066	1,087
Agriculture	3,864	3,916	3,050	3,115	813	801
16 to 19 years	557	617	462	504	96	113
16 to 17 years	291	308	245	255	46	53
18 to 19 years	267	309	217	248	50	60
20 to 24 years	564	540	463	430	105	111
25 to 54 years	1,892	1,946	1,424	1,504	468	442
25 to 34 years	778	833	596	678	182	155
35 to 44 years	588	587	428	419	159	168
45 to 54 years	526	524	403	407	126	118
55 to 64 years	542	516	433	414	109	102
55 to 59 years	297	276	222	223	75	53
60 to 64 years	245	239	211	191	34	49
65 years and over	307	298	272	264	36	34

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

(In thousands)

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
	TOTAL	102,152	101,177	54,416	53,516	39,162	39,831	4,590	4,127	3,984	3,703
White-collar workers	52,798	53,418	23,957	24,168	26,076	26,735	737	694	2,028	1,822
Professional and technical	16,023	16,410	8,970	9,012	6,833	7,175	98	100	119	123
Health workers	3,190	3,299	1,046	1,055	2,126	2,220	2	8	16	16
Teachers, except college	2,655	2,701	753	749	1,886	1,924	4	5	14	22
Other professional and technical	10,174	10,410	7,171	7,208	2,821	3,031	92	87	89	85
Managers and administrators, except farm	11,702	11,857	8,453	8,385	3,127	3,317	64	79	59	75
Salaried workers	9,620	9,869	6,933	6,933	2,574	2,787	56	78	58	72
Self-employed workers in retail trade	962	887	624	570	332	313	7	2	--	1
Self-employed workers, except retail trade	1,119	1,101	896	882	221	217	1	--	1	2
Sales workers	6,486	6,677	3,235	3,439	2,551	2,538	251	266	450	434
Retail trade	3,370	3,395	1,046	1,128	1,719	1,689	199	189	406	389
Other industries	3,116	3,282	2,188	2,311	832	849	52	77	44	45
Clerical workers	18,590	18,474	3,299	3,332	13,565	13,704	324	249	1,401	1,189
Stenographers, typists, and secretaries	5,113	4,887	69	61	4,670	4,558	10	7	364	261
Other clerical workers	13,477	13,587	3,230	3,271	8,895	9,146	314	242	1,037	928
Blue-collar workers	32,738	30,541	24,324	22,870	5,547	5,330	2,455	1,988	412	352
Craft and kindred workers	13,064	12,651	11,802	11,304	736	893	490	417	36	37
Carpenters	1,173	1,074	1,084	1,006	24	14	62	54	3	1
Construction craft workers, except carpenters	2,809	2,794	2,604	2,575	45	59	148	147	12	13
Mechanics and repairers	3,485	3,416	3,257	3,197	57	75	166	139	4	6
Metal craft workers	1,291	1,215	1,211	1,153	51	48	29	13	--	--
Blue-collar worker supervisors, not elsewhere classified	1,865	1,728	1,669	1,500	185	220	10	8	2	--
All other	2,442	2,425	1,977	1,874	374	478	76	56	16	18
Operatives, except transport	10,896	9,470	5,946	5,178	4,109	3,718	613	391	229	183
Durable goods manufacturing	4,687	3,858	2,964	2,363	1,498	1,365	155	92	70	39
Nondurable goods manufacturing	3,522	3,147	1,293	1,253	1,949	1,745	155	60	125	90
Other industries	2,687	2,464	1,689	1,562	661	608	303	240	34	55
Transport equipment operatives	3,543	3,284	3,094	2,922	270	248	168	97	8	16
Drivers, motor vehicles	2,962	2,797	2,564	2,478	240	222	152	81	6	16
All other	577	487	530	445	30	26	16	16	2	--
Nonfarm laborers	5,238	5,136	3,482	3,466	433	472	1,184	1,083	139	116
Construction	1,004	838	758	649	22	18	214	160	9	11
Manufacturing	1,048	901	796	689	136	139	105	64	11	9
Other industries	3,186	3,397	1,929	2,128	274	315	864	859	119	95
Service workers	13,475	14,128	3,970	4,375	6,997	7,262	1,037	1,044	1,471	1,447
Private household workers	1,027	1,075	23	19	740	770	5	16	258	270
Service workers, except private household	12,448	13,053	3,947	4,356	6,256	6,492	1,032	1,028	1,213	1,177
Food service workers	4,675	4,939	898	1,101	2,354	2,415	642	631	780	792
Protective service workers	1,385	1,526	1,233	1,361	131	135	21	24	1	7
All other	6,388	6,588	1,816	1,894	3,771	3,942	369	373	432	378
Farm workers	3,141	3,091	2,166	2,103	542	504	361	402	72	82
Farmers and farm managers	1,592	1,510	1,365	1,326	206	166	18	16	3	3
Farm laborers and supervisors	1,548	1,581	801	777	336	338	342	386	69	79
Paid workers	1,244	1,280	756	745	158	146	277	329	53	60
Unpaid family workers	304	300	45	32	178	192	66	57	16	19

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

[Percent distribution]

Occupation and race	Total		Male		Female	
	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
TOTAL						
Total, 16 years and over (thousands)	102,152	101,177	59,005	57,644	43,146	43,533
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	51.7	52.8	41.8	43.1	65.1	65.6
Professional and technical	15.7	16.2	15.4	15.8	16.1	16.8
Managers and administrators, except farm	11.5	11.7	14.4	14.7	7.4	7.8
Sales workers	6.3	6.6	5.9	6.4	7.0	6.8
Clerical workers	18.2	18.3	6.1	6.2	34.7	34.2
Blue-collar workers	32.0	30.2	45.4	43.1	13.8	13.1
Craft and kindred workers	12.8	12.5	20.8	20.3	1.8	2.1
Operatives, except transport	10.7	9.4	11.1	9.7	10.1	9.0
Transport equipment operatives	3.5	3.2	5.5	5.2	.6	.6
Nonfarm laborers	5.1	5.1	7.9	7.9	1.3	1.3
Service workers	13.2	14.0	8.5	9.4	19.6	20.0
Private household workers	1.0	1.1	(1)	.1	2.3	2.4
Other service workers	12.2	12.9	8.4	9.3	17.3	17.6
Farm workers	3.1	3.1	4.3	4.3	1.4	1.3
Farmers and farm managers	1.6	1.5	2.3	2.3	.5	.4
Farm laborers and supervisors	1.5	1.6	1.9	2.0	.9	1.0
White						
Total, 16 years and over (thousands)	90,279	89,189	52,774	51,457	37,504	37,732
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	53.1	54.4	43.1	44.6	67.1	67.7
Professional and technical	15.9	16.5	15.6	16.2	16.2	16.9
Managers and administrators, except farm	12.2	12.6	15.3	15.6	7.8	8.4
Sales workers	6.8	7.1	6.3	6.8	7.5	7.4
Clerical workers	18.2	18.3	5.9	6.0	35.6	35.0
Blue-collar workers	31.5	29.7	44.7	42.4	12.9	12.3
Craft and kindred workers	13.3	13.0	21.4	20.9	1.8	2.2
Operatives, except transport	10.0	8.8	10.6	9.2	9.1	8.2
Transport equipment operatives	3.3	3.1	5.3	5.0	.7	.6
Nonfarm laborers	4.9	4.7	7.4	7.2	1.3	1.3
Service workers	12.1	12.7	7.6	8.4	18.4	18.5
Private household workers	.8	.8	(1)	(1)	1.8	1.9
Other service workers	11.3	11.9	7.6	8.4	16.6	16.6
Farm workers	3.3	3.3	4.5	4.6	1.5	1.4
Farmers and farm managers	1.7	1.6	2.6	2.5	.5	.4
Farm laborers and supervisors	1.5	1.6	1.9	2.0	1.0	1.0
Black and other						
Total, 16 years and over (thousands)	11,873	11,988	6,231	6,186	5,642	5,802
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	41.0	40.9	31.2	30.5	52.0	52.1
Professional and technical	14.2	14.0	13.1	12.2	15.3	15.9
Managers and administrators, except farm	5.9	5.5	7.1	7.0	4.7	3.9
Sales workers	3.1	3.2	2.8	3.1	3.4	3.3
Clerical workers	17.8	18.3	8.1	8.2	28.5	29.0
Blue-collar workers	36.0	34.1	50.8	49.6	19.6	17.7
Craft and kindred workers	8.9	9.0	15.6	15.8	1.5	1.7
Operatives, except transport	15.7	13.4	15.2	13.2	16.3	13.7
Transport equipment operatives	4.4	4.1	7.8	7.3	.6	.6
Nonfarm laborers	6.9	7.6	12.1	13.3	1.3	1.6
Service workers	21.4	23.3	15.7	17.5	27.6	29.6
Private household workers	2.8	2.7	.2	.2	5.7	5.4
Other service workers	18.6	20.7	15.6	17.3	21.9	24.2
Farm workers	1.6	1.6	2.3	2.4	.8	.7
Farmers and farm managers	.3	.3	.5	.5	.1	.1
Farm laborers and supervisors	1.3	1.3	1.9	1.9	.7	.5

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	August 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	89,482	1,295	14,868	73,319	7,381	398	1,856	1,749	311
16 to 19 years	7,035	386	540	6,110	126	52	480	61	76
16 to 17 years	2,738	249	205	2,283	56	37	224	34	50
18 to 19 years	4,297	137	334	3,826	70	15	255	27	26
20 to 24 years	13,341	133	1,345	11,863	364	30	383	120	37
25 to 34 years	25,437	154	4,060	21,223	1,801	68	451	339	43
35 to 44 years	18,334	138	3,646	14,550	1,860	76	217	314	57
45 to 54 years	13,702	142	2,914	10,646	1,516	93	163	318	43
55 to 64 years	9,613	197	2,033	7,383	1,200	69	107	367	41
65 to 69 years	6,005	105	1,265	4,635	706	46	64	190	23
70 to 74 years	3,608	92	767	2,748	494	23	43	177	19
75 years and over	2,019	146	331	1,543	513	11	54	230	13
Males, 16 years and over	49,422	247	7,425	41,751	5,038	69	1,477	1,548	90
16 to 19 years	3,522	118	263	3,141	76	26	390	57	57
16 to 17 years	1,394	73	98	1,223	30	18	185	33	37
18 to 19 years	2,128	45	165	1,918	47	8	205	24	20
20 to 24 years	6,924	40	592	6,292	226	13	303	113	14
25 to 34 years	14,228	25	2,004	12,198	1,215	11	366	301	11
35 to 44 years	10,384	20	1,809	8,555	1,234	3	157	261	--
45 to 54 years	7,783	11	1,501	6,271	1,058	11	127	278	1
55 to 64 years	5,477	12	1,063	4,401	878	5	87	326	1
65 to 69 years	3,430	3	649	2,779	525	3	50	172	1
70 to 74 years	2,047	9	415	1,623	353	2	37	154	--
75 years and over	1,105	21	191	894	351	1	47	212	5
Females, 16 years and over	40,061	1,049	7,443	31,568	2,344	328	379	201	222
16 to 19 years	3,514	268	276	2,969	50	26	90	4	19
16 to 17 years	1,344	176	107	1,060	27	19	39	1	13
18 to 19 years	2,169	92	169	1,909	23	7	51	3	6
20 to 24 years	6,417	93	752	5,572	138	18	80	8	23
25 to 34 years	11,210	128	2,056	9,025	586	57	86	38	32
35 to 44 years	7,950	118	1,837	5,995	626	73	59	53	56
45 to 54 years	5,919	131	1,412	4,376	459	81	35	40	43
55 to 64 years	4,136	185	969	2,982	322	63	20	41	40
65 to 69 years	2,575	102	616	1,856	181	43	14	18	21
70 to 74 years	1,561	83	353	1,125	141	20	6	24	19
75 years and over	914	125	140	649	163	10	8	17	9

A-24. Employed persons by industry and occupation

[In thousands]

Industry	August 1982											
	Total employed	White-collar workers				Blue-collar workers			Service workers		Farm workers	
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers		Other service workers
Agriculture	3,916	101	42	8	84	83	12	32	447	--	15	3,091
Mining	1,000	172	104	7	122	237	293	40	11	--	14	--
Construction	6,072	226	753	36	441	3,320	263	161	838	--	34	--
Manufacturing	20,474	2,680	1,688	523	2,615	3,944	7,005	710	901	--	406	--
Durable goods	11,972	1,875	992	179	1,511	2,521	3,858	305	508	--	223	--
Non-durable goods	8,501	805	696	344	1,104	1,423	3,147	405	393	--	183	--
Transportation and public utilities	6,665	725	806	76	1,456	1,393	149	1,357	503	--	199	--
Wholesale and retail trade	21,454	480	4,165	4,414	3,747	1,496	939	698	1,334	--	4,180	--
Wholesale trade	4,266	179	893	1,019	918	359	229	349	283	--	36	--
Retail trade	17,189	301	3,272	3,395	2,829	1,137	710	349	1,051	--	4,144	--
Finance, insurance, and real estate	6,303	433	1,205	1,370	2,761	125	3	20	128	--	258	--
Services	29,974	10,583	2,427	241	5,349	1,763	741	222	782	1,075	6,793	--
Private households	1,363	10	--	--	14	9	9	6	201	1,075	41	--
Other service industries	28,611	10,573	2,427	241	5,335	1,754	732	216	581	--	6,752	--
Public administration	5,320	1,010	666	1	1,899	290	64	44	192	--	1,154	--

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 absences ²		Unpaid absences ²	
	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982
Total, 16 years and over	11,604	11,384	11,451	11,211	6,532	6,300	4,141	4,023
Vacation	9,187	9,067	9,099	8,981	5,738	5,574	2,893	2,908
Illness	1,342	1,300	1,319	1,255	588	531	622	599
Bad weather	54	38	41	25	--	--	--	--
Industrial dispute	37	35	37	35	--	--	--	--
All other reasons	984	944	955	915	207	195	626	516
Males, 16 years and over	5,414	5,195	5,292	5,069	3,520	3,306	1,341	1,257
Vacation	4,217	4,012	4,148	3,947	3,077	2,913	806	785
Illness	740	679	720	647	343	316	311	250
All other reasons ³	458	504	425	475	101	77	223	222
Females, 16 years and over	6,190	6,189	6,159	6,141	3,012	2,995	2,799	2,767
Vacation	4,970	5,055	4,951	5,033	2,661	2,661	2,087	2,124
Illness	602	621	599	508	245	216	311	349
All other reasons ³	618	513	609	500	106	119	401	294

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	August 1982					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total, 16 years and over	89,793	86,051	3,743	100.0	100.0	100.0
1-34 hours	22,111	21,022	1,089	24.6	24.4	29.1
1-4 hours	831	762	69	.9	.9	1.8
5-14 hours	3,515	3,263	253	3.9	3.8	6.8
15-29 hours	10,882	10,335	547	12.1	12.0	14.6
30-34 hours	6,883	6,662	220	7.7	7.7	5.9
35 hours and over	67,683	65,030	2,653	75.4	75.6	70.9
35-39 hours	6,797	6,595	202	7.6	7.7	5.4
40 hours	39,245	38,618	627	43.7	44.9	16.8
41 hours and over	21,641	19,817	1,824	24.1	23.0	48.7
41 to 48 hours	8,053	7,826	227	9.0	9.1	6.1
49 to 59 hours	7,282	6,810	472	8.1	7.9	12.6
60 hours and over	6,306	5,181	1,125	7.0	6.0	30.1
Average hours, total at work	38.7	38.4	45.4	--	--	--
Average hours, workers on full-time schedules	42.8	42.4	54.0	--	--	--

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	August 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	22,111	7,497	14,613	21,022	7,185	13,836
Economic reasons	6,862	2,325	4,537	6,456	2,194	4,262
Slack work	3,240	1,976	1,264	3,014	1,860	1,154
Material shortages or repairs to plant and equipment	30	30	--	30	30	--
New job started during week	192	192	--	185	185	--
Job terminated during week	126	126	--	118	118	--
Could find only part-time work	3,273	--	3,273	3,108	--	3,108
Other reasons	15,250	5,174	10,076	14,566	4,992	9,574
Does not want, or unavailable for, full-time work	7,885	--	7,885	7,514	--	7,514
Vacation	2,060	2,060	--	1,998	1,998	--
Illness	1,443	1,288	155	1,393	1,263	130
Bad weather	239	239	--	189	189	--
Industrial dispute	8	8	--	8	8	--
Legal or religious holiday	133	133	--	131	131	--
Full time for this job	1,475	--	1,475	1,416	--	1,416
All other reasons	2,006	1,445	561	1,917	1,403	514
Average hours:						
Economic reasons	21.7	24.9	20.1	21.9	25.0	20.3
Other reasons	21.7	25.5	19.8	21.8	25.6	19.9
Worked 30 to 34 hours:						
Economic reasons	2,137	1,100	1,037	2,049	1,044	1,005
Other reasons	4,746	2,584	2,162	4,613	2,527	2,086

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

[Numbers in thousands]

Industry	August 1982								
	Full- or part-time status						Average hours, total at work	Average hours, workers on full-time schedules	
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules					
			Total	40 hours or less	41 to 48 hours	49 hours or more			
Total, 16 years and over ¹	86,051	6,456	9,574	70,021	50,204	7,826	11,991	38.4	42.4
Wage and salary workers	79,061	5,850	8,337	64,874	47,779	7,256	9,839	38.2	42.0
Construction	4,603	486	164	3,953	2,929	403	621	39.0	41.9
Manufacturing	18,309	990	518	16,801	12,638	2,143	2,020	40.2	41.6
Durable goods	10,615	449	198	9,968	7,624	1,214	1,130	40.5	41.4
Nondurable goods	7,694	541	319	6,833	5,015	929	890	39.8	41.9
Transportation and public utilities	5,630	219	226	5,185	3,724	568	893	41.2	42.8
Wholesale and retail trade	17,804	2,109	3,137	12,558	8,374	1,721	2,463	36.5	42.7
Finance, insurance, and real estate	5,320	145	504	4,671	3,600	462	609	38.8	41.3
Service industries	21,672	1,738	3,532	16,402	12,479	1,424	2,499	36.3	41.7
Private households	1,198	325	492	381	232	36	113	24.3	46.9
All other industries	20,474	1,413	3,040	16,021	12,247	1,388	2,386	37.0	41.6
Public administration	4,843	118	249	4,476	3,534	433	509	39.6	41.1
Self-employed workers	6,592	581	1,083	4,928	2,296	541	2,091	40.3	47.9
Unpaid family workers	398	26	154	218	129	29	60	34.8	45.1

¹ Includes mining, not shown separately.

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	August 1982							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	86,051	6,456	9,574	70,021	50,204	19,817	38.4	42.4
16 to 21 years	11,653	2,214	2,606	6,833	5,348	1,485	32.4	41.0
16 to 19 years	6,800	1,584	1,987	3,229	2,571	658	29.5	40.6
16 to 17 years	2,632	695	1,163	774	631	143	24.4	39.9
18 to 19 years	4,167	889	824	2,454	1,939	515	32.7	40.8
20 years and over	79,251	4,871	7,587	66,793	47,634	19,159	39.1	42.5
20 to 24 years	12,833	1,321	1,296	10,216	7,648	2,568	37.8	41.7
25 years and over	66,419	3,551	6,290	56,578	39,988	16,590	39.4	42.6
25 to 44 years	41,872	2,289	3,182	36,401	25,335	11,066	39.9	42.7
45 to 64 years	22,336	1,150	2,070	19,116	13,879	5,237	39.4	42.5
65 years and over	2,209	112	1,039	1,058	772	286	29.4	42.5
Males, 16 years and over	49,460	3,168	2,717	43,575	28,557	15,018	41.0	43.6
16 to 21 years	5,898	1,090	1,128	3,680	2,708	972	33.7	41.7
16 to 19 years	3,431	774	887	1,770	1,360	410	30.6	41.0
16 to 17 years	1,347	348	537	462	368	94	25.7	40.1
18 to 19 years	2,084	425	350	1,309	993	316	33.8	41.2
20 years and over	46,028	2,394	1,830	41,804	27,196	14,608	41.7	43.7
20 to 24 years	6,799	678	464	5,657	3,865	1,792	39.5	42.9
25 years and over	39,230	1,716	1,367	36,147	23,331	12,816	42.2	43.9
25 to 44 years	24,567	1,092	427	23,048	14,499	8,549	42.8	44.1
45 to 64 years	13,368	571	391	12,406	8,341	4,065	42.0	43.5
65 years and over	1,294	52	549	693	490	203	31.2	42.8
Females, 16 years and over	36,591	3,289	6,857	26,445	21,646	4,799	34.8	40.3
16 to 21 years	5,755	1,124	1,478	3,153	2,640	513	31.1	40.2
16 to 19 years	3,368	811	1,100	1,457	1,210	247	28.4	40.2
16 to 17 years	1,285	347	627	311	262	49	23.2	39.5
18 to 19 years	2,083	464	474	1,145	945	200	31.7	40.3
20 years and over	33,223	2,477	5,757	24,989	20,438	4,551	35.5	40.3
20 to 24 years	6,034	643	832	4,559	3,782	777	35.8	40.3
25 years and over	27,189	1,834	4,924	20,431	16,656	3,775	35.4	40.3
25 to 44 years	17,306	1,197	2,755	13,354	10,835	2,519	35.8	40.3
45 to 64 years	8,967	578	1,679	6,710	5,538	1,172	35.4	40.4
65 years and over	915	58	490	367	283	84	26.9	41.8
RACE								
White	75,647	5,359	8,750	61,538	43,240	18,298	38.5	42.6
Males	43,999	2,660	2,410	38,929	24,970	13,959	41.2	43.8
Females	31,647	2,700	6,340	22,607	18,268	4,339	34.7	40.4
Black and other	10,404	1,097	824	8,483	6,964	1,519	37.3	41.1
Males	5,460	508	307	4,645	3,586	1,059	38.8	41.9
Females	4,944	588	517	3,839	3,379	460	35.6	40.0
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	32,746	1,243	1,039	30,464	19,291	11,173	42.5	44.0
Widowed, divorced, or separated	4,268	294	213	3,761	2,485	1,276	41.0	43.6
Single (never married)	12,446	1,631	1,466	9,349	6,782	2,567	37.0	42.3
Females, 16 years and over:								
Married, spouse present	18,952	1,263	4,186	13,503	11,262	2,241	34.3	39.9
Widowed, divorced, or separated	7,307	575	880	5,852	4,556	1,296	37.0	41.0
Single (never married)	10,332	1,451	1,791	7,090	5,828	1,262	34.3	40.5

HOUSEHOLD DATA

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

(Numbers in thousands)

Occupation and sex	August 1982								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over	86,825	6,562	9,720	70,543	50,471	7,891	12,181	38.4	42.4
White-collar workers	46,272	2,052	5,428	38,792	27,229	4,064	7,499	39.0	42.5
Professional and technical	12,776	389	1,244	11,143	7,866	1,085	2,192	39.5	42.4
Managers and administrators, except farm	10,812	175	521	10,116	5,330	1,340	3,446	44.5	46.1
Sales workers	6,092	513	1,246	4,333	2,657	569	1,107	36.5	43.4
Clerical workers	16,592	975	2,417	13,200	11,375	1,071	754	35.8	39.6
Blue-collar workers	27,848	2,627	1,386	23,835	17,191	3,073	3,571	39.4	42.3
Craft and kindred workers	11,580	744	318	10,518	7,320	1,431	1,767	40.7	42.6
Operatives, except transport	8,581	844	347	7,390	5,765	851	774	39.0	41.4
Transport equipment operatives	2,866	238	90	2,538	1,504	393	641	42.4	45.0
Nonfarm laborers	4,821	802	631	3,388	2,601	398	389	34.9	41.5
Service workers	12,705	1,883	2,906	7,916	6,051	754	1,111	33.8	42.1
Private household	992	225	425	342	210	28	104	25.2	45.5
Other service workers	11,713	1,658	2,480	7,575	5,840	727	1,008	34.6	42.0
Males, 16 years and over	50,045	3,262	2,797	43,986	28,753	5,418	9,815	40.9	43.7
White-collar workers	22,183	661	1,150	20,372	12,075	2,420	5,877	42.8	44.7
Professional and technical	7,697	196	348	7,153	4,689	715	1,749	42.1	43.7
Managers and administrators, except farm	7,772	113	210	7,449	3,640	965	2,844	45.9	46.9
Sales workers	3,447	174	339	2,934	1,573	419	942	41.2	44.8
Clerical workers	3,267	178	252	2,837	2,175	320	342	38.8	41.5
Blue-collar workers	22,865	2,018	969	19,878	13,970	2,619	3,289	39.9	42.7
Craft and kindred workers	10,767	697	247	9,823	6,796	1,333	1,694	41.0	42.7
Operatives, except transport	5,115	379	128	4,608	3,441	554	613	40.2	42.0
Transport equipment operatives	2,699	218	71	2,410	1,417	371	622	42.7	45.2
Nonfarm laborers	4,283	724	523	3,036	2,316	361	359	35.1	41.5
Service workers	4,997	583	678	3,736	2,708	379	649	37.5	43.2
Private household	36	10	18	8	4	2	2	18.3	46.3
Other service workers	4,962	573	659	3,730	2,705	377	648	37.6	43.1
Females, 16 years and over	36,780	3,301	6,923	26,556	21,717	2,474	2,365	34.9	40.3
White-collar workers	24,089	1,391	4,278	18,420	15,153	1,645	1,622	35.5	40.1
Professional and technical	5,079	193	896	3,990	3,177	370	443	35.7	40.2
Managers and administrators, except farm	3,040	63	311	2,666	1,690	374	602	41.1	43.8
Sales workers	2,645	337	907	1,401	1,086	150	165	30.5	40.4
Clerical workers	13,325	797	2,164	10,364	9,201	751	412	35.1	39.1
Blue-collar workers	4,983	610	417	3,956	3,220	454	282	36.9	40.5
Craft and kindred workers	813	46	71	696	525	98	73	37.8	40.9
Operatives, except transport	3,465	466	218	2,781	2,323	297	161	37.1	40.3
Transport equipment operatives	167	20	19	128	88	22	18	37.1	41.5
Nonfarm laborers	538	78	108	352	285	37	30	33.8	40.9
Service workers	7,708	1,300	2,228	4,180	3,344	375	461	31.5	41.2
Private household	957	215	407	335	208	25	102	25.5	45.5
Other service workers	6,751	1,085	1,821	3,845	3,135	350	360	32.3	40.9

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

(Numbers in thousands)

Employment status	August 1982								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,139	3,635	3,505	5,905	3,019	2,886	1,234	616	618
Civilian labor force	1,602	913	688	1,446	812	633	156	101	55
Employed	1,354	756	598	1,265	692	572	89	63	26
Agriculture	233	182	51	224	175	49	9	7	2
Nonagricultural industries	1,121	573	547	1,040	517	523	80	57	24
Unemployed	248	158	90	181	120	61	67	38	29
Unemployment rate	15.5	17.3	13.1	12.5	14.8	9.6	43.0	37.6	(1)
Not in labor force	5,538	2,722	2,816	4,460	2,207	2,253	1,078	515	563
Keeping house	247	40	207	178	31	147	69	9	60
Going to school	290	151	140	192	97	94	99	53	45
Unable to work	4	2	3	5	2	3	--	--	--
All other reasons	4,996	2,530	2,467	4,085	2,076	2,009	911	453	457

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	August 1982					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,354	756	598	100.0	100.0	100.0
Nonagricultural industries	1,121	573	547	82.8	75.8	91.3
Wage and salary workers	1,003	502	501	74.1	66.4	83.6
Private household workers	451	144	307	33.3	19.0	51.3
Government workers	66	48	19	4.9	6.3	3.2
Other wage and salary workers	486	311	175	35.9	41.1	29.2
Self-employed workers	99	59	40	7.3	7.8	6.7
Unpaid family workers	19	12	7	1.4	1.6	1.2
Agriculture	233	182	51	17.2	24.1	8.5
Wage and salary workers	140	106	34	10.3	14.0	5.7
Self-employed workers	31	30	1	2.3	4.0	1.2
Unpaid family workers	62	46	16	4.6	6.1	2.7
OCCUPATION						
Total	1,354	756	598	100.0	100.0	100.0
White-collar workers	286	180	106	21.1	23.9	17.7
Professional and technical	22	9	13	1.6	1.2	2.2
Managers and administrators, except farm	3	3	--	.2	.4	--
Sales workers	197	148	49	14.5	19.6	8.2
Clerical workers	64	20	44	4.7	2.7	7.4
Blue-collar workers	317	305	12	23.4	40.5	2.0
Craft and kindred workers	25	25	--	1.8	3.3	--
Operatives, except transport	16	16	--	1.2	2.1	--
Transport equipment operatives	2	2	--	.1	.3	--
Nonfarm laborers	274	261	13	20.2	34.6	2.2
Service workers	568	132	437	41.9	17.5	73.1
Private household workers	332	18	313	24.5	2.4	52.3
Other service workers	237	113	123	17.5	15.0	20.6
Farm workers	182	139	43	13.4	18.4	7.2
Farmers and farm managers	6	6	--	.4	.8	--
Farm laborers and supervisors	176	133	43	13.0	17.6	7.2

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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
TOTAL													
Total noninstitutional population ¹	172,559	172,758	172,966	173,155	173,330	173,495	173,657	173,843	174,020	174,201	174,364	174,544	174,707
Armed Forces ¹	2,160	2,165	2,158	2,158	2,164	2,159	2,168	2,175	2,176	2,175	2,173	2,180	2,196
Civilian noninstitutional population ¹	170,399	170,593	170,809	170,996	171,166	171,335	171,489	171,667	171,844	172,026	172,190	172,364	172,511
Civilian labor force	108,818	108,494	109,012	109,272	109,184	108,879	109,165	109,346	109,648	110,666	110,191	110,522	110,644
Percent of civilian population	63.9	63.6	63.8	63.9	63.8	63.5	63.7	63.7	63.8	64.3	64.0	64.1	64.1
Employed	100,840	100,258	100,343	100,172	99,613	99,581	99,590	99,492	99,340	100,117	99,764	99,732	99,839
Percent of total population	58.4	58.0	58.0	57.9	57.5	57.4	57.3	57.2	57.1	57.5	57.2	57.1	57.1
Agriculture	3,404	3,358	3,378	3,372	3,209	3,411	3,373	3,349	3,309	3,488	3,357	3,460	3,435
Nonagricultural industries	97,436	96,900	96,965	96,803	96,404	96,170	96,217	96,144	96,032	96,629	96,406	96,272	96,404
Unemployed	7,978	8,236	8,669	9,100	9,571	9,298	9,575	9,854	10,307	10,549	10,427	10,790	10,805
Unemployment rate	7.3	7.6	8.0	8.3	8.8	8.5	8.8	9.0	9.4	9.5	9.5	9.8	9.8
Not in labor force	61,581	62,099	61,797	61,724	61,982	62,456	62,324	62,321	62,197	61,360	61,999	61,842	61,867
Males, 20 years and over													
Total noninstitutional population ¹	74,268	74,382	74,502	74,610	74,714	74,810	74,906	75,015	75,121	75,227	75,323	75,429	75,531
Civilian noninstitutional population ¹	72,559	72,670	72,795	72,921	73,020	73,120	73,209	73,287	73,392	73,499	73,585	73,685	73,774
Civilian labor force	57,250	57,262	57,355	57,459	57,665	57,368	57,448	57,554	57,730	58,164	58,016	58,084	58,026
Percent of civilian population	78.9	78.8	78.8	78.8	79.0	78.5	78.5	78.5	78.7	79.1	78.8	78.8	78.7
Employed	53,791	53,693	53,504	53,354	53,122	53,047	53,097	53,006	52,988	53,260	52,985	52,996	52,887
Percent of total population	72.4	72.2	71.8	71.5	71.1	70.9	70.9	70.5	70.5	70.8	70.3	70.3	70.0
Agriculture	2,422	2,383	2,413	2,382	2,311	2,390	2,386	2,377	2,382	2,464	2,424	2,474	2,436
Nonagricultural industries	51,369	51,310	51,091	50,972	50,811	50,657	50,711	50,629	50,606	50,796	50,561	50,522	50,451
Unemployed	3,459	3,569	3,851	4,105	4,543	4,322	4,351	4,548	4,742	4,904	5,031	5,088	5,139
Unemployment rate	6.0	6.2	6.7	7.1	7.9	7.5	7.6	7.9	8.2	8.4	8.7	8.8	8.9
Not in labor force	15,309	15,408	15,440	15,462	15,355	15,752	15,761	15,733	15,662	15,335	15,569	15,601	15,748
Females, 20 years and over													
Total noninstitutional population ¹	81,822	81,946	82,074	82,193	82,306	82,415	82,523	82,640	82,753	82,868	82,976	83,091	83,201
Civilian noninstitutional population ¹	81,671	81,792	81,920	82,038	82,151	82,260	82,367	82,478	82,591	82,707	82,811	82,926	83,035
Civilian labor force	42,666	42,344	42,831	42,987	42,888	42,868	43,031	43,243	43,301	43,683	43,904	44,076	44,115
Percent of civilian population	52.2	51.8	52.3	52.4	52.2	52.1	52.2	52.4	52.4	52.8	53.0	53.2	53.1
Employed	39,841	39,426	39,814	39,878	39,713	39,764	39,744	39,807	39,715	40,075	40,350	40,392	40,490
Percent of total population	48.7	48.1	48.5	48.5	48.3	48.2	48.2	48.2	48.0	48.4	48.6	48.6	48.7
Agriculture	609	608	596	635	572	649	628	636	601	634	581	600	589
Nonagricultural industries	39,232	38,818	39,218	39,243	39,141	39,115	39,116	39,172	39,114	39,441	39,769	39,791	39,901
Unemployed	2,825	2,918	3,017	3,109	3,175	3,104	3,286	3,435	3,586	3,608	3,554	3,684	3,626
Unemployment rate	6.6	6.9	7.0	7.2	7.4	7.2	7.6	7.9	8.3	8.3	8.1	8.4	8.2
Not in labor force	39,005	39,448	39,089	39,051	39,263	39,392	39,336	39,235	39,290	39,024	38,907	38,850	38,920
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,469	16,429	16,390	16,351	16,310	16,269	16,228	16,188	16,146	16,106	16,065	16,024	15,976
Civilian noninstitutional population ¹	16,169	16,131	16,093	16,037	15,995	15,955	15,913	15,902	15,861	15,820	15,794	15,753	15,702
Civilian labor force	8,902	8,888	8,826	8,826	8,631	8,643	8,686	8,549	8,616	8,819	8,271	8,362	8,503
Percent of civilian population	55.1	55.1	54.8	55.0	54.0	54.2	54.6	53.8	54.3	55.7	52.4	53.1	54.2
Employed	7,208	7,139	7,025	6,940	6,778	6,771	6,748	6,679	6,637	6,782	6,429	6,344	6,463
Percent of total population	43.8	43.5	42.9	42.4	41.6	41.6	41.6	41.3	41.1	42.1	40.0	39.6	40.5
Agriculture	373	367	369	355	326	373	359	336	326	390	353	386	411
Nonagricultural industries	6,835	6,772	6,656	6,585	6,452	6,398	6,389	6,343	6,311	6,392	6,076	5,958	6,052
Unemployed	1,694	1,749	1,801	1,886	1,853	1,872	1,938	1,870	1,979	2,037	1,842	2,018	2,040
Unemployment rate	19.0	19.7	20.4	21.4	21.5	21.7	22.3	21.9	23.0	23.1	22.3	24.1	24.0
Not in labor force	7,267	7,243	7,267	7,211	7,364	7,312	7,227	7,353	7,245	7,001	7,523	7,391	7,199

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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
FULL TIME													
Total, 16 years and over:													
Civilian labor force	92,778	92,801	93,359	93,607	93,856	93,129	93,421	93,860	93,890	94,619	93,984	94,348	94,404
Employed	86,378	86,044	86,155	86,062	85,729	85,324	85,523	85,505	85,289	85,903	85,112	85,406	85,337
Unemployed	6,400	6,757	7,204	7,545	8,127	7,805	7,897	8,355	8,601	8,717	8,873	8,942	9,067
Unemployment rate	6.9	7.3	7.7	8.1	8.7	8.4	8.5	8.9	9.2	9.2	9.4	9.5	9.6
PART TIME													
Total, 16 years and over:													
Civilian labor force	16,071	15,662	15,690	15,721	15,399	15,853	15,632	15,470	15,336	15,911	16,167	16,215	16,225
Employed	14,525	14,160	14,198	14,125	13,982	14,337	13,951	13,926	14,112	14,237	14,584	14,371	14,552
Unemployed	1,546	1,502	1,492	1,596	1,417	1,515	1,681	1,544	1,724	1,674	1,583	1,844	1,672
Unemployment rate	9.6	9.6	9.5	10.2	9.2	9.6	10.8	10.0	10.9	10.5	9.8	11.4	10.3

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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
WHITE													
Total, 16 years and over:													
Civilian labor force	95,163	94,884	95,365	95,535	95,329	95,120	95,333	95,508	96,015	96,641	96,223	96,493	96,414
Employed	89,221	88,628	88,734	88,498	88,010	87,955	87,990	87,956	87,988	88,450	88,173	88,137	88,133
Unemployed	5,942	6,256	6,631	7,037	7,319	7,165	7,344	7,552	8,026	8,191	8,050	8,356	8,281
Unemployment rate	6.2	6.6	7.0	7.4	7.7	7.5	7.7	7.9	8.4	8.5	8.4	8.7	8.6
Males, 20 years and over:													
Civilian labor force	50,701	50,712	50,811	50,881	50,948	50,757	50,812	50,903	51,124	51,394	51,252	51,292	51,269
Employed	48,050	47,948	47,790	47,649	47,449	47,410	47,430	47,351	47,393	47,535	47,300	47,256	47,202
Unemployed	2,651	2,764	3,021	3,232	3,499	3,347	3,382	3,552	3,731	3,859	3,952	4,037	4,067
Unemployment rate	5.2	5.5	5.9	6.4	6.9	6.6	6.6	7.0	7.3	7.5	7.7	7.9	7.9
Females, 20 years and over:													
Civilian labor force	36,554	36,294	36,742	36,832	36,733	36,698	36,860	37,038	37,179	37,428	37,619	37,845	37,716
Employed	34,534	34,155	34,517	34,513	34,368	34,380	34,427	34,475	34,489	34,682	34,944	35,067	35,033
Unemployed	2,020	2,139	2,225	2,319	2,365	2,319	2,433	2,564	2,690	2,746	2,675	2,777	2,683
Unemployment rate	5.5	5.9	6.1	6.3	6.4	6.3	6.6	6.9	7.2	7.3	7.1	7.3	7.1
Both sexes, 16 to 19 years:													
Civilian labor force	7,908	7,878	7,812	7,822	7,648	7,665	7,662	7,567	7,712	7,819	7,352	7,356	7,429
Employed	6,637	6,525	6,427	6,336	6,193	6,166	6,133	6,130	6,106	6,233	5,929	5,814	5,899
Unemployed	1,271	1,353	1,385	1,486	1,455	1,499	1,529	1,437	1,606	1,586	1,423	1,542	1,530
Unemployment rate	16.1	17.2	17.7	19.0	19.0	19.6	20.0	19.0	20.8	20.3	19.4	21.0	20.6
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	13,632	13,617	13,697	13,757	13,773	13,704	13,857	13,810	13,768	14,097	13,947	14,027	14,232
Employed	11,624	11,607	11,611	11,661	11,610	11,632	11,653	11,515	11,446	11,669	11,560	11,594	11,738
Unemployed	2,008	2,010	2,086	2,096	2,163	2,072	2,204	2,294	2,322	2,429	2,387	2,433	2,494
Unemployment rate	14.7	14.8	15.2	15.2	15.7	15.1	15.9	16.6	16.9	17.2	17.1	17.3	17.5
Males, 20 years and over:													
Civilian labor force	6,556	6,551	6,573	6,595	6,614	6,563	6,649	6,620	6,704	6,759	6,762	6,784	6,797
Employed	5,745	5,715	5,711	5,694	5,647	5,630	5,688	5,622	5,667	5,709	5,688	5,720	5,703
Unemployed	811	836	862	901	967	933	961	998	1,037	1,050	1,075	1,063	1,093
Unemployment rate	12.4	12.8	13.1	13.7	14.6	14.2	14.5	15.1	15.5	15.5	15.9	15.7	16.1
Females, 20 years and over:													
Civilian labor force	6,087	6,085	6,096	6,147	6,163	6,152	6,163	6,199	6,145	6,324	6,273	6,247	6,370
Employed	5,313	5,281	5,301	5,359	5,355	5,388	5,338	5,321	5,248	5,407	5,387	5,350	5,474
Unemployed	774	804	795	788	808	764	826	878	897	917	887	897	896
Unemployment rate	12.7	13.2	13.0	12.8	13.1	12.4	13.4	14.2	14.6	14.5	14.1	14.4	14.1
Both sexes, 16 to 19 years:													
Civilian labor force	989	981	1,028	1,015	996	989	1,044	991	919	1,014	912	997	1,066
Employed	566	611	599	608	608	614	627	573	531	553	486	524	561
Unemployed	423	370	429	407	388	375	417	418	388	461	426	473	505
Unemployment rate	42.8	37.7	41.7	40.1	39.0	37.9	39.9	42.2	42.2	45.5	46.7	47.4	47.4

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-36. Major unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1981					1982							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
CHARACTERISTIC													
Total (all civilian workers)	7.3	7.6	8.0	8.3	8.8	8.5	8.8	9.0	9.4	9.5	9.5	9.8	9.8
Males, 20 years and over	6.0	6.2	6.7	7.1	7.9	7.5	7.6	7.9	8.2	8.4	8.7	8.8	8.9
Females, 20 years and over	6.6	6.9	7.0	7.2	7.4	7.2	7.6	7.9	8.3	8.3	8.1	8.4	8.2
Both sexes, 16-19 years	19.0	19.7	20.4	21.4	21.5	21.7	22.3	21.9	23.0	23.1	22.3	24.1	24.0
White	6.2	6.6	7.0	7.4	7.7	7.5	7.7	7.9	8.4	8.5	8.4	8.7	8.6
Black and other	14.7	14.8	15.2	15.2	15.7	15.1	15.9	16.6	16.9	17.2	17.1	17.3	17.5
Married men, spouse present	4.0	4.4	4.8	5.2	5.7	5.3	5.3	5.5	6.0	6.1	6.5	6.6	6.7
Married women, spouse present	5.5	6.0	6.1	6.5	6.6	6.2	7.0	7.1	7.8	7.4	7.0	7.4	7.1
Women who maintain families	10.1	10.7	10.6	10.8	10.5	10.4	10.2	10.6	11.5	11.8	12.4	12.0	11.6
Full-time workers	6.9	7.3	7.7	8.1	8.7	8.4	8.5	8.9	9.2	9.2	9.4	9.5	9.6
Part-time workers	9.6	9.6	9.5	10.2	9.2	9.6	10.8	10.0	10.9	10.5	9.8	11.4	10.3
Unemployed 15 weeks and over ¹	2.3	2.1	2.1	2.2	2.2	2.2	2.5	2.7	2.7	3.0	3.3	3.2	3.3
Labor force time lost ²	7.9	8.5	9.1	9.5	10.1	10.0	9.8	10.4	10.4	11.1	10.2	10.7	10.7
OCCUPATION													
White-collar workers	3.9	4.1	4.1	4.2	4.5	4.2	4.6	4.8	4.9	4.8	5.0	4.9	4.8
Professional and technical	2.5	2.8	2.6	2.7	3.4	2.9	3.1	3.2	3.2	3.3	3.3	3.3	3.1
Managers and administrators, except farm	2.7	2.7	2.8	3.0	3.1	2.7	3.1	3.0	3.3	3.5	3.8	3.7	3.8
Sales workers	4.7	5.0	4.9	5.0	4.9	4.5	4.8	5.8	5.6	5.2	5.8	5.4	5.5
Clerical workers	5.7	5.8	6.0	6.0	6.2	6.3	6.7	6.9	7.2	6.8	6.9	6.9	6.7
Blue-collar workers	9.5	10.2	10.9	11.8	12.7	12.5	12.5	12.9	13.7	13.5	13.9	14.4	14.2
Craft and kindred workers	7.0	7.7	8.3	8.5	9.3	9.0	8.4	9.1	9.6	9.4	10.3	10.9	10.6
Operatives, except transport	11.1	11.6	12.8	14.1	15.5	15.4	15.4	15.9	16.9	16.5	16.7	17.4	17.5
Transport equipment operatives	8.0	8.7	8.0	10.4	10.5	10.2	10.3	10.4	10.7	11.8	13.0	11.6	12.5
Nonfarm laborers	13.2	14.6	15.6	16.0	16.9	16.9	17.9	17.9	19.2	18.3	17.9	18.6	17.4
Service workers	8.9	9.0	9.3	9.7	9.6	9.2	9.8	10.2	11.1	11.3	9.9	10.5	10.6
Farm workers	5.4	4.0	6.2	6.2	6.4	6.9	4.9	5.4	5.8	8.3	7.2	6.1	6.9
INDUSTRY													
Nonagricultural private wage and salary workers ³	7.3	7.7	8.1	8.4	9.1	8.8	9.0	9.5	9.9	9.9	10.0	10.2	10.1
Construction	16.2	16.3	17.6	17.8	18.1	18.7	18.1	17.9	19.4	18.8	19.2	20.3	20.3
Manufacturing	7.0	7.9	8.6	9.4	11.0	10.4	10.6	10.8	11.3	11.6	12.3	12.0	12.1
Durable goods	6.5	7.7	8.6	9.5	11.8	11.0	11.3	10.8	11.9	12.2	13.2	12.7	12.9
Nondurable goods	7.9	8.3	8.6	9.3	9.6	9.5	9.5	10.8	10.5	10.7	11.0	11.0	10.8
Transportation	4.8	4.2	4.8	5.5	6.0	6.4	5.9	5.6	7.0	6.5	6.9	6.1	7.0
Wholesale and retail trade	7.9	8.5	8.4	8.6	8.9	8.7	9.0	10.3	10.1	10.6	9.7	10.5	9.8
Finance and service industries	5.7	6.0	6.2	6.1	6.4	5.9	6.5	6.9	7.0	6.9	6.8	7.0	7.0
Government workers	4.5	4.7	4.7	5.2	5.0	4.8	5.2	4.9	5.3	5.0	4.6	4.6	4.6
Agricultural wage and salary workers	12.0	11.0	13.4	14.1	14.8	16.2	12.8	14.0	14.6	18.2	16.3	13.8	14.3

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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
DURATION													
Less than 5 weeks	3,326	3,529	3,707	3,852	4,037	3,852	3,789	3,825	3,958	3,874	3,543	3,990	3,923
5 to 14 weeks	2,469	2,585	2,686	2,882	3,016	3,068	3,052	3,078	3,304	3,320	3,458	3,161	3,304
15 weeks and over	2,217	2,248	2,292	2,364	2,372	2,399	2,724	2,954	3,015	3,286	3,673	3,580	3,631
15 to 26 weeks	1,078	1,146	1,166	1,229	1,189	1,210	1,445	1,605	1,508	1,634	1,826	1,792	1,810
27 weeks and over	1,139	1,102	1,126	1,135	1,183	1,190	1,278	1,349	1,507	1,652	1,847	1,788	1,821
Average (mean) duration, in weeks	14.3	13.7	13.6	13.1	12.8	13.5	14.1	13.9	14.2	14.6	16.5	15.6	16.2
Median duration, in weeks	7.0	6.9	6.8	6.9	6.7	7.2	7.3	7.6	8.5	9.0	9.8	8.3	8.2
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	41.5	42.2	42.7	42.3	42.8	41.3	39.6	38.8	38.5	37.0	33.2	37.2	36.1
5 to 14 weeks	30.8	30.9	30.9	31.7	32.0	32.9	31.9	31.2	32.1	31.7	32.4	29.5	30.4
15 weeks and over	27.7	26.9	26.4	26.0	25.2	25.7	28.5	30.0	29.3	31.4	34.4	33.4	33.4
15 to 26 weeks	13.5	13.7	13.4	13.5	12.6	13.0	15.1	16.3	14.7	15.6	17.1	16.7	16.7
27 weeks and over	14.2	13.2	13.0	12.5	12.6	12.8	13.4	13.7	14.7	15.8	17.3	16.7	16.8

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

Sex and age	1981					1982							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Total, 16 years and over	7.3	7.6	8.0	8.3	8.8	8.5	8.8	9.0	9.4	9.5	9.5	9.8	9.8
16 to 19 years	19.0	19.7	20.4	21.4	21.5	21.7	22.3	21.9	23.0	23.1	22.3	24.1	24.0
16 to 17 years	20.8	21.4	21.5	22.6	21.9	21.9	22.7	22.7	24.6	25.3	23.7	26.1	25.8
18 to 19 years	17.6	18.5	20.0	20.5	21.2	21.3	22.0	21.3	21.9	21.3	21.9	22.8	22.6
20 to 24 years	12.1	12.3	12.7	13.0	13.5	13.5	14.1	14.2	14.7	14.3	14.4	14.5	15.2
25 years and over	5.2	5.4	5.7	6.0	6.5	6.3	6.4	6.8	7.0	7.1	7.4	7.5	7.3
25 to 54 years	5.5	5.8	6.2	6.5	6.9	6.7	6.8	7.3	7.4	7.7	7.7	7.9	7.8
55 years and over	3.5	3.8	3.8	3.8	4.1	4.2	4.3	4.6	5.0	4.8	5.4	5.2	5.1
Males, 16 years and over	7.1	7.3	7.7	8.3	9.0	8.6	8.7	9.0	9.4	9.6	9.7	9.9	10.0
16 to 19 years	19.8	19.9	20.1	21.8	22.3	22.1	22.5	23.5	24.4	24.0	24.2	25.1	25.1
16 to 17 years	21.5	21.5	21.1	22.7	22.6	23.0	23.0	24.3	24.7	26.3	25.8	28.1	27.3
18 to 19 years	18.3	18.7	19.3	21.0	22.2	21.4	22.1	22.9	24.3	21.9	24.0	23.4	23.4
20 to 24 years	12.9	13.1	13.8	14.4	14.8	14.9	15.4	15.7	16.0	15.5	15.8	15.9	16.6
25 years and over	4.9	5.0	5.5	5.8	6.5	6.3	6.3	6.6	6.9	6.9	7.5	7.5	7.5
25 to 54 years	5.2	5.5	5.9	6.3	6.9	6.7	6.7	7.1	7.2	7.5	8.0	8.1	8.0
55 years and over	3.4	3.5	3.7	3.7	4.4	4.3	4.2	4.8	5.1	4.7	5.0	4.8	5.4
Females, 16 years and over	7.7	8.0	8.2	8.4	8.5	8.4	8.9	9.0	9.4	9.5	9.1	9.6	9.5
16 to 19 years	18.2	19.5	20.7	20.9	20.5	21.2	22.1	20.1	21.3	22.1	20.2	23.1	22.8
16 to 17 years	20.3	21.2	21.9	22.5	21.1	20.6	22.5	20.8	24.5	24.1	21.4	24.1	24.2
18 to 19 years	16.9	18.3	20.6	19.9	20.0	21.1	21.9	19.6	19.4	20.6	19.7	22.2	21.7
20 to 24 years	11.1	11.4	11.5	11.3	12.0	11.9	12.7	12.6	13.3	12.9	12.9	12.9	13.7
25 years and over	5.6	6.0	6.1	6.4	6.4	6.3	6.5	7.0	7.2	7.4	7.2	7.4	7.0
25 to 54 years	6.0	6.3	6.5	6.8	6.9	6.7	7.0	7.6	7.7	8.0	7.4	7.7	7.5
55 years and over	3.7	4.3	4.0	3.8	3.7	4.1	4.3	4.3	4.8	5.0	6.0	6.0	4.6

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

[Numbers in thousands]

Reason for unemployment	1981					1982							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	4,106	4,426	4,573	4,905	5,343	5,205	5,153	5,622	5,906	5,901	6,302	6,177	6,347
On layoff	1,276	1,452	1,631	1,826	2,042	1,860	1,740	1,828	1,946	1,969	2,071	2,079	2,180
Other job losers	2,830	2,974	2,942	3,079	3,301	3,345	3,413	3,794	3,959	3,932	4,231	4,098	4,167
Job leavers	879	921	976	916	923	835	964	885	937	874	813	813	806
Reentrants	2,034	2,058	2,178	2,339	2,244	2,079	2,277	2,249	2,365	2,438	2,372	2,528	2,440
New entrants	971	977	1,002	996	1,021	1,055	1,100	1,044	1,081	1,154	1,088	1,249	1,328
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	51.4	52.8	52.4	53.6	56.1	56.7	54.3	57.4	57.4	56.9	59.6	57.4	58.1
On layoff	16.0	17.3	18.7	19.9	21.4	20.3	18.3	18.7	18.9	19.0	19.6	19.3	20.0
Other job losers	35.4	35.5	33.7	33.6	34.6	36.5	35.9	38.7	38.5	37.9	40.0	38.1	38.2
Job leavers	11.0	11.0	11.2	10.0	9.7	9.1	10.2	9.0	9.1	8.4	7.7	7.5	7.4
Reentrants	25.5	24.6	25.0	25.5	23.5	22.7	24.0	22.9	23.0	23.5	22.4	23.5	22.3
New entrants	12.2	11.7	11.5	10.9	10.7	11.5	11.6	10.7	10.5	11.1	10.3	11.6	12.2
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.8	4.1	4.2	4.5	4.9	4.8	4.7	5.1	5.4	5.3	5.7	5.6	5.7
Job leavers	.8	.8	.9	.8	.8	.8	.9	.8	.9	.8	.7	.7	.7
Reentrants	1.9	1.9	2.0	2.1	2.1	1.9	2.1	2.1	2.2	2.2	2.2	2.3	2.2
New entrants	.9	.9	.9	.9	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.2

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(In thousands)

Sex and age	1981					1982							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Total, 16 years and over	100,840	100,258	100,343	100,172	99,613	99,581	99,590	99,492	99,340	100,117	99,764	99,732	99,839
16 to 19 years	7,208	7,139	7,025	6,940	6,778	6,771	6,748	6,679	6,637	6,782	6,429	6,344	6,463
16 to 17 years	2,840	2,836	2,769	2,763	2,703	2,705	2,690	2,642	2,610	2,629	2,389	2,342	2,397
18 to 19 years	4,345	4,326	4,260	4,192	4,088	4,065	4,067	4,060	4,027	4,167	4,013	3,998	4,061
20 to 24 years	14,194	14,086	14,078	13,970	13,935	13,816	13,788	13,811	13,730	13,820	13,778	13,723	13,642
25 years and over	79,453	79,028	79,228	79,202	78,881	78,960	79,045	78,978	78,973	79,509	79,598	79,696	79,784
25 to 54 years	65,014	64,676	64,829	64,868	64,567	64,722	64,853	64,648	64,670	65,069	65,197	65,345	65,483
55 years and over	14,471	14,372	14,377	14,337	14,332	14,282	14,158	14,299	14,298	14,449	14,379	14,392	14,327
Males, 16 years and over	57,551	57,471	57,266	57,051	56,725	56,629	56,658	56,472	56,401	56,820	56,223	56,192	56,210
16 to 19 years	3,760	3,778	3,762	3,697	3,603	3,582	3,561	3,466	3,412	3,560	3,238	3,196	3,323
16 to 17 years	1,501	1,533	1,522	1,495	1,448	1,446	1,439	1,387	1,385	1,417	1,237	1,174	1,244
18 to 19 years	2,257	2,266	2,241	2,208	2,163	2,134	2,123	2,094	2,020	2,158	1,985	2,023	2,069
20 to 24 years	7,562	7,523	7,449	7,373	7,380	7,321	7,288	7,246	7,208	7,281	7,194	7,237	7,175
25 years and over	46,244	46,160	46,046	45,940	45,709	45,686	45,786	45,762	45,782	45,967	45,838	45,764	45,744
25 to 54 years	37,565	37,519	37,406	37,364	37,092	37,127	37,235	37,173	37,194	37,351	37,227	37,189	37,269
55 years and over	8,679	8,658	8,621	8,590	8,608	8,582	8,523	8,578	8,591	8,641	8,629	8,576	8,463
Females, 16 years and over	43,289	42,787	43,077	43,121	42,888	42,952	42,932	43,020	42,940	43,297	43,541	43,540	43,630
16 to 19 years	3,448	3,361	3,263	3,243	3,175	3,189	3,187	3,213	3,225	3,222	3,191	3,148	3,140
16 to 17 years	1,339	1,303	1,247	1,273	1,255	1,259	1,251	1,255	1,225	1,212	1,152	1,168	1,153
18 to 19 years	2,088	2,060	2,019	1,984	1,925	1,931	1,944	1,966	2,007	2,009	2,028	1,975	1,992
20 to 24 years	6,632	6,563	6,629	6,597	6,555	6,495	6,500	6,565	6,523	6,539	6,584	6,486	6,467
25 years and over	33,209	32,868	33,182	33,262	33,172	33,274	33,259	33,216	33,192	33,542	33,760	33,932	34,040
25 to 54 years	27,449	27,157	27,423	27,504	27,475	27,595	27,618	27,475	27,476	27,718	27,970	28,155	28,214
55 years and over	5,792	5,714	5,756	5,747	5,724	5,701	5,635	5,721	5,707	5,808	5,750	5,816	5,863

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

(In thousands)

Sex and age	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
	Total, 16 years and over	7,978	8,236	8,669	9,100	9,571	9,298	9,575	9,854	10,307	10,549	10,427	10,790	10,805
16 to 19 years	1,694	1,749	1,801	1,886	1,853	1,872	1,938	1,870	1,979	2,037	1,842	2,018	2,040
16 to 17 years	746	772	757	808	759	760	792	775	851	891	742	829	834
18 to 19 years	931	983	1,062	1,080	1,098	1,098	1,149	1,099	1,130	1,126	1,126	1,182	1,184
20 to 24 years	1,949	1,972	2,054	2,088	2,168	2,161	2,271	2,293	2,374	2,303	2,321	2,335	2,454
25 years and over	4,328	4,540	4,828	5,091	5,481	5,282	5,401	5,748	5,962	6,095	6,326	6,428	6,288
25 to 54 years	3,819	4,010	4,255	4,536	4,804	4,649	4,756	5,066	5,186	5,428	5,474	5,625	5,543
55 years and over	526	572	574	562	620	624	630	691	752	732	824	797	770
Males, 16 years and over	4,385	4,506	4,798	5,133	5,578	5,338	5,384	5,610	5,846	6,029	6,065	6,161	6,250
16 to 19 years	926	937	947	1,028	1,035	1,016	1,033	1,062	1,104	1,125	1,034	1,073	1,111
16 to 17 years	411	421	408	438	424	433	429	445	454	506	429	458	466
18 to 19 years	505	521	537	587	616	581	604	621	647	606	628	618	633
20 to 24 years	1,120	1,131	1,194	1,245	1,278	1,284	1,324	1,346	1,377	1,333	1,347	1,371	1,426
25 years and over	2,361	2,455	2,670	2,834	3,199	3,055	3,071	3,247	3,383	3,422	3,726	3,698	3,726
25 to 54 years	2,067	2,173	2,346	2,522	2,762	2,662	2,675	2,820	2,895	3,031	3,225	3,265	3,259
55 years and over	303	317	333	333	397	383	377	431	461	428	457	428	485
Females, 16 years and over	3,593	3,730	3,871	3,967	3,993	3,960	4,191	4,243	4,461	4,520	4,362	4,629	4,555
16 to 19 years	768	812	854	858	818	856	905	808	875	912	808	945	929
16 to 17 years	335	351	349	370	335	327	363	330	397	385	313	371	368
18 to 19 years	426	462	525	493	482	517	545	478	483	520	498	564	551
20 to 24 years	829	841	860	843	890	877	947	947	998	969	974	964	1,028
25 years and over	1,967	2,085	2,158	2,257	2,282	2,228	2,330	2,501	2,578	2,673	2,600	2,730	2,552
25 to 54 years	1,752	1,837	1,909	2,014	2,042	1,987	2,081	2,246	2,291	2,397	2,249	2,360	2,284
55 years and over	223	255	241	229	223	241	253	260	291	304	367	369	285

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(In thousands)

Category	1981					1982							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
CHARACTERISTIC													
Total, 16 years and over	100840	100258	100343	100172	99,613	99,581	99,590	99,492	99,340	100117	99,764	99,732	99,839
Married men, spouse present	38,961	38,855	38,746	38,553	38,342	38,234	38,255	38,181	38,142	38,312	38,354	38,213	38,184
Married women, spouse present	24,043	23,626	23,874	23,820	23,691	23,744	23,727	23,900	23,831	24,213	24,401	24,223	24,300
OCCUPATION													
White-collar workers	53,141	52,908	53,199	53,086	53,084	52,836	52,841	52,763	53,177	53,705	53,586	53,685	53,750
Professional and technical	16,621	16,598	16,681	16,657	16,774	16,803	16,612	16,659	16,844	16,818	17,053	17,292	17,023
Managers and administrators, except farm	11,460	11,533	11,616	11,461	11,424	11,091	11,253	11,311	11,501	11,541	11,504	11,355	11,613
Sales workers	6,490	6,441	6,400	6,418	6,450	6,520	6,544	6,637	6,603	6,587	6,547	6,567	6,677
Clerical workers	18,570	18,336	18,502	18,550	18,436	18,423	18,432	18,155	18,229	18,759	18,482	18,471	18,437
Blue-collar workers	31,611	31,266	30,953	30,683	30,344	30,203	30,309	30,416	29,924	29,926	29,716	29,609	29,465
Craft and kindred workers	12,724	12,514	12,446	12,411	12,446	12,370	12,454	12,511	12,492	12,316	12,207	12,229	12,342
Operatives, except transport	10,658	10,524	10,410	10,220	10,169	9,966	9,955	9,860	9,688	9,585	9,655	9,453	9,257
Transport equipment operatives	3,530	3,506	3,580	3,438	3,368	3,415	3,503	3,397	3,400	3,419	3,414	3,439	3,268
Nonfarm laborers	4,699	4,722	4,517	4,614	4,361	4,451	4,397	4,648	4,343	4,607	4,441	4,488	4,598
Service workers	13,282	13,391	13,525	13,670	13,639	13,709	13,612	13,526	13,555	13,738	13,791	13,634	13,926
Farm workers	2,753	2,743	2,770	2,802	2,660	2,817	2,787	2,710	2,623	2,731	2,660	2,750	2,711
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,501	1,461	1,502	1,436	1,352	1,377	1,426	1,416	1,423	1,541	1,431	1,530	1,568
Self-employed workers	1,638	1,643	1,631	1,641	1,602	1,674	1,596	1,644	1,664	1,698	1,676	1,674	1,613
Unpaid family workers	256	256	261	321	228	380	359	277	270	236	251	250	254
Nonagricultural industries:													
Wage and salary workers	89,995	89,376	89,460	89,238	88,991	88,759	88,586	88,526	88,322	89,051	88,606	88,541	88,737
Government	15,526	15,475	15,491	15,397	15,585	15,578	15,527	15,492	15,453	15,422	15,635	15,443	15,569
Private industries	74,469	73,901	73,969	73,841	73,406	73,181	73,059	73,034	72,869	73,629	72,970	73,098	73,168
Private households	1,259	1,102	1,162	1,204	1,291	1,248	1,161	1,225	1,192	1,202	1,201	1,200	1,242
Other industries	73,210	72,799	72,807	72,637	72,115	71,932	71,898	71,809	71,677	72,427	71,770	71,898	71,927
Self-employed workers	7,103	7,217	7,152	7,141	7,057	6,971	7,055	7,126	7,264	7,269	7,319	7,268	7,352
Unpaid family workers	387	399	451	425	410	410	408	434	413	382	397	390	409
PERSONS AT WORK¹													
Nonagricultural industries	91,569	90,878	91,384	91,323	90,922	90,125	90,892	90,548	90,596	91,282	91,020	90,501	90,508
Full-time schedules	74,467	73,794	73,886	73,915	73,360	72,803	73,028	72,649	72,335	73,036	72,662	72,430	72,112
Part-time for economic reasons	4,350	4,656	5,009	5,026	5,288	5,071	5,563	5,717	5,834	5,763	5,444	5,492	5,648
Usually work full-time	1,729	1,759	2,006	1,945	2,121	1,783	2,193	2,237	2,223	2,211	2,064	2,001	2,054
Usually work part-time	2,621	2,897	3,003	3,081	3,167	3,287	3,370	3,480	3,611	3,552	3,380	3,491	3,594
Part time for noneconomic reasons	12,752	12,428	12,489	12,382	12,274	12,251	12,300	12,183	12,427	12,483	12,914	12,579	12,748

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

HOUSEHOLD DATA

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

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninstitutional population		Civilian labor force							
			Total		Employed		Unemployed			
							Number		Percent of labor force	
Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	Aug. 1981	Aug. 1982	
VETERANS										
Total, 25 years and over	8,581	8,704	8,181	8,209	7,767	7,587	414	622	5.1	7.6
25 to 29 years	7,318	7,109	7,076	6,824	6,699	6,263	377	561	5.3	8.2
25 to 29 years	1,459	1,177	1,377	1,117	1,260	968	117	149	8.5	13.3
30 to 34 years	3,286	2,882	3,201	2,757	3,047	2,538	154	219	4.8	7.9
35 to 39 years	2,573	3,050	2,498	2,950	2,392	2,757	106	193	4.2	6.5
40 years and over	1,263	1,595	1,105	1,385	1,068	1,324	37	61	3.3	4.4
NONVETERANS										
Total, 25 to 39 years	17,331	18,337	16,378	17,384	15,454	15,807	924	1,577	5.6	9.1
25 to 29 years	7,899	8,204	7,474	7,759	6,970	6,924	504	835	6.7	10.8
30 to 34 years	5,561	6,031	5,259	5,720	4,948	5,287	311	433	5.9	7.6
35 to 39 years	3,871	4,102	3,645	3,905	3,536	3,596	109	309	3.0	7.9

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 EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
-	TOTAL	91,107	91,087	90,570	89,362	89,195	-	-	-	-	-
-	PRIVATE SECTOR	75,773	75,990	74,599	74,280	74,293	61,456	61,645	60,284	59,971	59,973
-	MINING	1,184	1,200	1,145	1,126	1,118	872	884	821	804	801
10	METAL MINING	105.3	105.8	71.1	64.8	-	78.5	79.4	51.6	45.1	-
101	Iron ores	21.7	21.8	9.3	6.7	-	16.8	16.9	6.7	4.5	-
102	Copper ores	35.7	36.5	24.3	22.8	-	27.2	28.1	17.3	16.2	-
11, 12	COAL MINING	247.6	250.6	239.7	232.8	-	204.3	207.0	196.4	189.6	-
12	BITUMINOUS COAL AND LIGNITE MINING	244.1	247.0	236.3	229.5	-	201.2	203.8	193.4	185.7	-
13	OIL AND GAS EXTRACTION	706.6	719.6	717.4	710.6	-	493.0	501.7	482.8	477.9	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	276.4	278.4	292.5	296.3	-	122.3	121.9	128.2	131.8	-
138	Oil and gas field services	430.2	441.2	424.9	414.3	-	370.7	379.8	354.6	346.1	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	124.3	124.1	117.1	118.1	-	95.8	95.7	89.7	93.3	-
142	Crushed and broken stone	39.1	38.9	37.0	37.3	-	32.1	31.9	29.8	33.2	-
144	Sand and gravel	36.5	36.1	34.5	35.0	-	-	-	-	-	-
147	Chemical and fertilizer minerals	27.9	27.7	24.1	24.6	-	-	-	-	-	-
-	CONSTRUCTION	4,415	4,431	4,090	4,149	4,167	3,469	3,489	3,168	3,228	3,250
15	GENERAL BUILDING CONTRACTORS	1,155.6	1,149.1	1,018.2	1,039.5	-	881.1	875.9	761.7	783.1	-
152	Residential building construction	558.6	549.0	495.0	511.0	-	412.5	403.4	359.7	373.7	-
153	Operative builders	62.3	61.8	51.1	50.6	-	35.2	34.6	26.2	25.2	-
154	Nonresidential building construction	534.7	538.3	472.1	477.9	-	433.4	437.9	375.8	381.2	-
16	HEAVY CONSTRUCTION CONTRACTORS	977.7	982.5	908.5	913.8	-	795.4	800.8	732.3	739.3	-
161	Highway and street construction	289.9	287.9	251.8	258.5	-	246.9	244.9	213.0	212.7	-
162	Heavy construction, except highway	687.8	694.6	656.7	655.3	-	548.5	555.9	519.3	526.6	-
17	SPECIAL TRADE CONTRACTORS	2,281.6	2,299.2	2,163.1	2,195.4	-	1,792.6	1,812.0	1,673.5	1,703.1	-
171	Plumbing, heating, air conditioning	532.2	534.9	500.6	503.7	-	393.7	397.1	362.1	367.2	-
172	Painting, paper hanging, decorating	150.7	150.2	140.5	146.4	-	126.2	126.1	117.2	123.1	-
173	Electrical work	416.9	422.8	400.9	403.2	-	321.3	327.4	305.0	307.5	-
174	Masonry, stonework, and plastering	339.9	345.4	310.3	319.3	-	291.1	295.9	262.2	270.4	-
175	Carpentering and flooring	126.7	127.3	115.6	115.5	-	95.7	96.7	85.9	85.8	-
176	Roofing and sheet metal work	163.3	166.4	157.9	162.3	-	132.6	135.7	125.3	129.4	-
-	MANUFACTURING	20,246	20,370	19,031	18,725	18,793	14,043	14,153	12,931	12,553	12,737
24, 25, 32-39	DURABLE GOODS	12,179	12,164	11,267	11,077	10,971	8,330	8,302	7,497	7,327	7,236
20-23, 26-31	NONDURABLE GOODS	8,067	8,206	7,764	7,648	7,822	5,713	5,851	5,434	5,326	5,501
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	696.9	691.2	627.7	630.8	636.1	582.7	576.9	518.1	521.7	525.4
241	Logging camps and logging contractors	87.6	86.9	80.2	84.6	-	69.8	69.0	62.8	67.3	-
242	Sawmills and planing mills	215.5	215.1	195.8	197.4	-	190.9	190.5	171.7	173.1	-
2421	Sawmills and planing mills, general	181.2	179.5	164.5	166.4	-	161.2	159.4	144.7	145.4	-
2426	Hardwood dimension and flooring	29.7	30.4	27.2	26.9	-	25.6	26.5	23.4	23.1	-
243	Millwork, plywood, and structural members	197.4	194.3	174.8	174.4	-	163.3	160.2	141.6	141.5	-
2431	Millwork	70.0	68.5	63.6	64.6	-	56.3	54.9	50.1	53.9	-
2434	Wood kitchen cabinets	47.3	47.0	40.8	39.5	-	38.2	38.0	31.9	30.9	-
2435	Hardwood veneer and plywood	24.7	25.4	21.6	21.5	-	21.7	22.3	18.7	18.7	-
2436	Softwood veneer and plywood	40.4	38.8	35.7	35.3	-	36.0	34.4	31.1	33.9	-
244	Wood containers	43.2	42.0	41.1	40.3	-	37.0	35.9	34.8	34.1	-
245	Wood buildings and mobile homes	71.4	70.6	61.9	62.4	-	53.2	52.2	46.0	46.5	-
2451	Mobile homes	50.4	49.9	47.7	47.9	-	39.0	38.5	37.2	37.4	-
249	Miscellaneous wood products	81.8	82.3	73.9	71.7	-	68.5	69.1	61.2	59.2	-
26	FURNITURE AND FIXTURES	462.3	470.6	439.2	429.1	439.8	371.9	379.3	346.5	333.2	347.7
251	Household furniture	294.4	298.1	271.0	261.8	-	246.1	249.0	222.9	215.0	-
2511	Wood household furniture	131.7	134.0	120.3	117.7	-	114.3	116.0	103.1	101.2	-
2512	Upholstered household furniture	88.6	89.6	82.8	79.9	-	72.5	73.2	66.4	64.1	-
2514	Metal household furniture	29.1	28.7	28.2	24.8	-	23.4	23.0	22.4	19.2	-
2515	Mattresses and bedsprings	30.8	31.5	28.3	28.3	-	23.6	24.3	21.2	21.0	-
252	Office furniture	53.2	54.7	54.3	53.6	-	41.5	42.8	41.6	41.1	-
253	Public building and related furniture	23.2	23.9	23.5	23.3	-	17.4	18.1	17.7	17.4	-
254	Partitions and fixtures	61.9	63.4	59.0	59.3	-	46.3	47.8	43.1	43.6	-
259	Miscellaneous furniture and fixtures	29.6	30.5	31.4	31.1	-	20.6	21.6	21.2	21.1	-

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				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
32	STONE, CLAY, AND GLASS PRODUCTS	654.2	656.3	591.7	589.1	594.2	505.2	507.4	448.8	447.2	453.4
321	Flat glass	18.5	18.3	16.0	14.8	-	14.3	14.2	12.3	11.3	-
322	Glass and glassware, pressed or blown	122.9	124.1	111.9	112.9	-	104.1	105.1	93.5	94.7	-
3221	Glass containers	69.7	70.2	64.8	65.1	-	61.4	61.9	56.8	57.2	-
3229	Pressed and blown glass, nec	53.2	53.9	47.1	47.8	-	42.7	43.2	36.7	37.5	-
323	Products of purchased glass	44.8	45.3	41.5	41.9	-	29.9	30.3	27.5	28.0	-
324	Cement, hydraulic	31.7	31.4	29.3	29.2	-	25.4	25.1	23.1	22.9	-
325	Structural clay products	42.7	42.6	35.3	35.2	-	32.5	32.5	25.9	25.8	-
326	Pottery and related products	42.3	43.6	39.0	37.5	-	34.4	36.1	31.7	30.0	-
327	Concrete, gypsum, and plaster products	201.3	200.7	184.0	186.0	-	155.6	154.7	140.2	142.1	-
3271	Concrete block and brick	19.9	19.8	18.9	18.7	-	13.8	13.6	12.8	12.5	-
3272	Concrete products, nec	66.9	67.9	61.6	62.7	-	50.1	50.5	45.7	46.8	-
3273	Ready-mixed concrete	94.5	93.2	85.5	86.6	-	75.5	74.6	67.3	68.2	-
329	Misc. nonmetallic mineral products	137.9	138.0	122.5	119.8	-	99.1	99.3	84.9	83.0	-
3291	Abrasive products	27.8	27.9	25.0	24.4	-	18.8	18.9	15.9	15.3	-
3292	Asbestos products	15.9	15.9	14.0	13.6	-	12.2	12.2	10.4	10.1	-
3296	Mineral wool	30.5	30.7	27.2	27.0	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,128.4	1,132.6	935.0	909.1	888.8	866.0	867.7	693.9	670.9	552.0
331	Blast furnace and basic steel products	515.8	513.2	401.5	386.0	-	401.0	397.0	298.0	284.5	-
3312	Blast furnaces and steel mills	430.4	427.3	330.2	318.3	-	335.6	331.6	245.5	235.4	-
3317	Steel pipe and tubes	32.2	32.7	27.2	24.8	-	25.2	25.3	20.3	18.0	-
332	Iron and steel foundries	200.6	201.9	161.9	158.3	-	159.6	160.0	124.5	121.6	-
3321	Gray iron foundries	121.3	122.9	97.0	96.4	-	98.5	99.9	76.9	75.5	-
3322	Malleable iron foundries	15.8	16.3	13.3	12.6	-	12.2	12.5	9.9	9.3	-
3325	Steel foundries, nec	50.7	51.2	39.8	38.1	-	39.8	40.1	29.9	28.4	-
333	Primary nonferrous metals	70.5	70.1	58.8	57.5	-	53.2	52.5	42.1	41.0	-
3334	Primary aluminum	37.3	36.7	30.0	29.1	-	29.1	28.5	22.2	21.3	-
335	Nonferrous rolling and drawing	204.5	207.3	188.0	185.3	-	144.8	147.9	132.9	130.3	-
3351	Copper rolling and drawing	30.0	29.8	25.2	24.8	-	22.3	22.2	18.6	18.4	-
3353	Aluminum sheet, plate, and foil	33.7	35.5	30.6	30.4	-	25.3	27.3	23.5	23.3	-
3357	Nonferrous wire drawing and insulating	85.3	86.7	81.5	80.2	-	60.5	61.7	57.5	56.0	-
336	Nonferrous foundries	88.1	90.9	80.6	78.7	-	70.5	73.0	63.8	61.7	-
3361	Aluminum foundries	50.9	53.4	46.2	45.3	-	41.5	43.7	37.4	36.5	-
34	FABRICATED METAL PRODUCTS	1,593.6	1,599.9	1,458.2	1,426.9	1,423.6	1,172.5	1,177.9	1,051.5	1,025.5	1,024.0
341	Metal cans and shipping containers	72.1	72.9	68.3	67.4	-	61.7	62.4	57.8	57.1	-
3411	Metal cans	59.0	59.9	55.9	55.4	-	51.1	51.9	48.1	47.7	-
342	Cutlery, hand tools, and hardware	158.6	157.8	136.7	134.1	-	120.8	119.2	100.1	97.3	-
3423.5	Hand and edge tools, and hand saws and blades	54.2	55.0	45.0	44.0	-	41.1	41.6	33.3	32.4	-
3428	Hardware, nec	89.4	87.8	78.1	76.4	-	68.5	66.5	57.5	55.6	-
343	Plumbing and heating, except electric	68.2	69.7	65.6	64.3	-	48.9	50.4	45.2	44.2	-
3432	Plumbing fittings and brass goods	26.8	27.1	27.3	26.2	-	21.5	21.8	21.4	20.4	-
3433	Heating equipment, except electric	31.0	32.0	27.9	27.9	-	20.5	21.4	17.3	17.3	-
344	Fabricated structural metal products	511.7	513.6	464.5	460.9	-	348.7	351.7	310.1	308.2	-
3441	Fabricated structural metal	100.9	101.0	89.2	88.2	-	71.9	72.0	62.4	61.9	-
3442	Metal doors, sash, and trim	83.2	83.1	77.9	79.4	-	60.7	60.6	56.0	57.8	-
3443	Fabricated plate work (boiler shops)	148.6	150.0	132.3	131.0	-	89.7	91.7	77.4	75.7	-
3444	Sheet metal work	109.3	109.2	102.3	101.0	-	79.8	79.9	72.9	71.3	-
3446	Architectural metal work	30.6	30.8	28.1	27.7	-	21.5	21.7	19.2	18.7	-
345	Screw machine products, bolts, etc.	104.5	104.4	93.4	91.5	-	80.0	80.2	69.9	68.1	-
3451	Screw machine products	47.4	47.4	43.7	42.9	-	38.5	38.6	34.4	33.4	-
3452	Bolts, nuts, rivets, and washers	57.1	57.0	49.7	48.6	-	41.5	41.6	35.5	34.7	-
346	Metal forgings and stampings	254.0	254.7	232.0	221.7	-	200.5	201.0	182.5	173.1	-
3462	Iron and steel forgings	44.2	43.8	35.2	34.0	-	34.3	33.9	26.6	25.5	-
3465	Automotive stampings	93.0	92.1	90.0	86.2	-	76.7	75.7	76.0	72.4	-
3469	Metal stampings, nec	104.7	106.5	95.2	90.1	-	80.1	81.9	71.2	66.7	-
347	Metal services, nec	102.5	102.8	95.6	91.2	-	82.5	82.7	75.8	71.6	-
3471	Plating and polishing	69.7	70.4	65.5	61.5	-	57.0	57.7	53.2	49.4	-
3479	Metal coating and allied services	32.8	32.4	30.1	29.7	-	25.5	25.0	22.6	22.2	-
348	Ordinance and accessories, nec	69.3	69.6	72.2	72.0	-	44.5	44.4	46.3	46.8	-
3483	Ammunition, exc. for small arms, nec	26.4	26.7	27.1	27.6	-	17.0	17.1	17.7	18.2	-
349	Misc. fabricated metal products	252.7	254.4	229.9	223.8	-	184.9	185.9	163.8	159.1	-
3494	Valves and pipe fittings	105.1	104.6	95.7	92.4	-	71.9	71.0	63.3	60.9	-
3496	Misc. fabricated wire products	53.3	54.7	50.7	49.1	-	41.2	42.7	38.2	36.8	-
35	MACHINERY, EXCEPT ELECTRICAL	2,512.2	2,507.1	2,328.8	2,262.3	2,224.7	1,581.7	1,576.2	1,412.6	1,353.7	1,318.4
351	Engines and turbines	134.0	134.9	115.0	113.4	-	85.1	86.1	70.0	69.7	-
3511	Turbines and turbine generator sets	45.4	45.5	43.4	42.7	-	23.7	24.1	23.0	22.8	-
3519	Internal combustion engines, nec	88.6	89.4	71.6	70.7	-	61.4	62.0	47.0	46.9	-
352	Farm and garden machinery	154.8	149.5	136.1	121.3	-	104.1	99.0	89.5	75.2	-
3523	Farm machinery and equipment	137.6	130.8	115.9	104.6	-	92.4	85.9	75.9	65.1	-
353	Construction and related machinery	403.4	405.6	349.7	335.1	-	264.2	265.6	217.1	206.3	-
3531	Construction machinery	143.3	142.6	113.8	114.0	-	94.4	93.3	68.3	69.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3532	Mining machinery.....	38.3	38.5	33.8	32.4	-	23.7	23.8	20.4	19.3	-
3533	Oil field machinery.....	121.2	123.0	113.6	103.8	-	84.4	85.6	77.1	69.5	-
3535	Conveyers and conveying equipment.....	35.2	35.9	32.3	31.2	-	19.9	20.6	17.1	16.1	-
3537	Industrial trucks and tractors.....	35.2	35.5	29.7	28.2	-	23.2	23.8	18.1	15.8	-
354	Metalworking machinery.....	363.0	362.3	324.8	311.2	-	260.9	260.2	227.6	215.2	-
3541	Machine tools, metal cutting types.....	79.7	79.2	63.9	59.3	-	51.5	50.9	38.7	35.4	-
3542	Machine tools, metal forming types.....	24.4	23.1	20.8	20.2	-	15.2	14.3	12.5	12.2	-
3544	Special dies, tools, jigs, and fixtures.....	136.2	136.2	129.7	126.7	-	107.5	107.1	101.5	98.2	-
3545	Machine tool accessories.....	68.4	68.3	61.6	59.0	-	47.9	47.8	41.5	39.4	-
3546	Power driven hand tools.....	30.5	30.6	26.2	23.9	-	23.4	23.6	19.0	15.9	-
355	Special industry machinery.....	199.2	197.9	180.8	178.0	-	126.1	125.4	110.3	108.5	-
3551	Food products machinery.....	43.7	43.2	41.8	41.0	-	27.8	27.4	26.5	26.0	-
3552	Textile machinery.....	25.6	26.0	22.3	21.8	-	17.6	18.0	14.7	14.3	-
3555	Printing trades machinery.....	39.2	38.7	38.0	38.1	-	24.3	24.2	23.0	23.1	-
356	General industrial machinery.....	320.4	320.0	289.7	278.5	-	206.6	206.9	182.4	172.2	-
3561	Pumps and pumping equipment.....	62.7	63.0	57.5	55.4	-	36.7	37.2	33.3	31.0	-
3562	Ball and roller bearings.....	55.7	55.7	48.7	46.8	-	42.7	42.4	36.3	34.3	-
3563	Air and gas compressors.....	31.2	31.4	29.8	29.2	-	18.4	18.5	16.5	15.9	-
3564	Blowers and fans.....	41.2	39.7	38.3	36.8	-	25.7	24.8	23.7	22.6	-
3566	Speed changers, drives, and gears.....	27.4	27.6	22.0	20.6	-	18.1	18.2	14.5	13.4	-
3568	Power transmission equipment, nec.....	22.8	23.1	20.2	19.0	-	16.1	16.3	13.8	12.7	-
357	Office and computing machines.....	468.5	470.2	494.2	494.1	-	187.9	188.3	196.4	193.9	-
3573	Electronic computing equipment.....	393.0	395.6	423.2	424.8	-	147.6	148.9	160.0	158.5	-
358	Refrigeration and service machinery.....	176.5	174.3	164.1	162.4	-	123.3	121.1	113.1	111.0	-
3585	Refrigeration and heating equipment.....	119.9	118.8	110.1	109.2	-	84.6	83.1	76.8	75.4	-
359	Misc. machinery, except electrical.....	292.4	292.4	274.4	268.3	-	223.5	223.6	206.2	203.7	-
3592	Carburetors, pistons, rings, valves.....	37.9	38.1	34.4	34.5	-	30.5	30.6	26.7	26.7	-
3599	Machinery, except electrical, nec.....	254.5	254.3	240.0	233.8	-	193.0	193.0	179.5	174.0	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	2,096.0	2,102.5	2,031.6	2,004.7	1,996.3	1,312.0	1,316.2	1,236.7	1,207.3	1,205.1
361	Electric distributing equipment.....	120.1	121.8	110.1	108.3	-	84.9	86.1	77.0	75.5	-
3612	Transformers.....	53.5	54.5	49.4	48.9	-	37.6	38.4	35.0	34.4	-
3613	Switchgear and switchboard apparatus.....	66.6	67.3	60.7	59.4	-	47.3	47.7	42.0	41.1	-
362	Electrical industrial apparatus.....	243.7	243.7	217.1	209.4	-	173.8	173.2	152.0	144.6	-
3621	Motors and generators.....	125.6	125.6	111.0	105.4	-	96.5	96.2	84.0	78.5	-
3622	Industrial controls.....	72.5	72.3	65.9	65.3	-	44.9	44.4	40.1	39.7	-
363	Household appliances.....	167.4	162.5	147.1	143.2	-	133.5	128.1	114.2	111.3	-
3632	Household refrigerators and freezers.....	37.5	32.6	31.6	30.0	-	30.9	26.1	25.2	23.9	-
3633	Household laundry equipment.....	22.8	22.5	18.8	20.4	-	18.1	17.7	14.0	15.8	-
3634	Electric housewares and fans.....	51.6	53.1	47.2	44.4	-	41.4	42.7	37.0	34.5	-
364	Electric lighting and wiring equipment.....	201.2	202.7	187.9	181.6	-	147.4	149.1	137.1	131.4	-
3641	Electric lamps.....	31.7	32.4	31.7	29.7	-	27.3	28.0	27.9	25.7	-
3643	Current-carrying wiring devices.....	83.7	84.9	78.4	75.1	-	56.6	57.6	52.2	49.5	-
3644	Noncurrent-carrying wiring devices.....	21.0	21.0	18.3	17.8	-	15.3	15.5	13.2	12.9	-
3645	Residential lighting fixtures.....	24.2	24.1	21.2	21.4	-	18.1	18.3	15.6	15.6	-
365	Radio and TV receiving equipment.....	107.7	109.1	95.0	92.2	-	76.2	77.3	64.9	62.4	-
3651	Radio and TV receiving sets.....	82.5	83.4	74.7	72.4	-	56.5	57.1	50.2	43.5	-
366	Communication equipment.....	551.6	552.3	555.4	557.2	-	267.2	268.0	259.9	259.7	-
3661	Telephone and telegraph apparatus.....	154.2	152.8	141.6	140.9	-	102.4	101.8	91.6	91.1	-
3662	Radio and TV communication equipment.....	397.4	399.5	413.8	416.3	-	164.8	166.2	168.3	169.5	-
367	Electronic components and accessories.....	558.7	562.5	576.6	573.3	-	324.6	328.3	329.8	323.4	-
3671-3	Electronic tubes.....	44.3	43.8	43.7	43.5	-	27.2	26.5	26.6	26.5	-
3674	Semiconductors and related devices.....	224.3	225.1	233.6	236.1	-	90.8	91.6	91.9	91.7	-
3679	Electronic components, nec.....	217.2	220.3	228.5	225.8	-	150.8	154.3	157.7	154.2	-
369	Misc. electrical equipment and supplies.....	145.6	147.9	142.4	139.5	-	104.4	106.1	101.8	98.5	-
3691	Storage batteries.....	27.6	29.4	27.8	26.7	-	21.2	22.9	21.5	23.4	-
3694	Engine electrical equipment.....	60.9	60.7	56.9	55.9	-	47.0	46.7	44.6	43.5	-
37	TRANSPORTATION EQUIPMENT	1,897.0	1,850.8	1,749.9	1,738.6	1,670.5	1,207.3	1,160.3	1,093.6	1,083.5	1,018.8
371	Motor vehicles and equipment.....	790.5	746.4	709.9	711.6	-	587.6	541.2	525.7	527.5	-
3711	Motor vehicles and car bodies.....	357.8	320.7	304.5	317.1	-	251.5	212.7	213.1	224.7	-
3713	Truck and bus bodies.....	37.9	36.7	33.3	33.3	-	28.5	27.4	25.2	25.3	-
3714	Motor vehicle parts and accessories.....	364.4	358.1	342.4	333.4	-	284.4	277.6	265.5	257.5	-
3715	Truck trailers.....	25.5	27.3	24.4	22.6	-	19.5	21.1	17.8	15.0	-
372	Aircraft and parts.....	647.3	642.5	611.8	607.4	-	339.4	337.0	309.7	305.1	-
3721	Aircraft.....	347.3	346.4	324.8	322.7	-	166.6	168.2	146.3	144.7	-
3724	Aircraft engines and engine parts.....	160.8	157.6	150.8	149.1	-	90.0	87.2	85.3	83.4	-
3728	Aircraft equipment, nec.....	139.2	138.5	136.2	135.6	-	82.8	81.6	78.1	77.0	-
373	Ship and boat building and repairing.....	228.5	230.1	208.5	201.5	-	173.7	174.7	158.7	153.4	-
3731	Ship building and repairing.....	183.6	185.5	169.9	165.0	-	136.1	137.4	127.3	124.0	-
3732	Boat building and repairing.....	44.9	44.6	38.6	36.5	-	37.6	37.3	31.4	29.4	-
374	Railroad equipment.....	53.0	52.1	38.5	37.1	-	35.0	34.6	24.0	22.9	-
376	Guided missiles, space vehicles, parts.....	122.9	123.7	127.6	128.1	-	36.3	36.4	38.6	38.2	-
3761	Guided missiles and space vehicles.....	96.4	97.1	100.9	101.3	-	26.7	26.7	29.0	23.5	-

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				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	38.0	38.1	40.9	40.2	-	23.4	24.0	28.4	27.7	-
3792	Travel trailers and campers	17.9	17.7	18.1	17.7	-	13.8	13.7	14.0	13.6	-
38	INSTRUMENTS AND RELATED PRODUCTS	731.2	735.8	714.6	708.3	705.7	430.0	430.5	411.3	405.3	407.8
381	Engineering and scientific instruments	78.7	78.6	76.5	76.1	-	37.5	37.5	35.4	34.3	-
382	Measuring and controlling devices	259.1	261.4	246.7	244.6	-	162.1	163.0	150.1	147.3	-
3822	Environmental controls	47.9	48.5	43.1	42.2	-	32.2	32.6	28.5	27.3	-
3823	Process control instruments	60.7	61.5	58.3	57.8	-	31.6	32.2	29.8	29.3	-
3825	Instruments to measure electricity	104.7	106.0	103.8	104.0	-	66.3	66.5	63.8	63.5	-
383	Optical instruments and lenses	33.4	33.1	32.8	32.3	-	18.8	18.6	18.0	17.7	-
384	Medical instruments and supplies	159.5	161.2	161.8	159.7	-	99.0	100.6	99.9	97.8	-
3841	Surgical and medical instruments	76.0	76.4	78.3	78.2	-	45.5	45.6	45.8	45.4	-
3842	Surgical appliances and supplies	67.2	68.7	67.9	66.0	-	43.4	45.1	44.7	43.1	-
385	Ophthalmic goods	41.1	41.1	37.1	36.3	-	28.8	28.6	25.7	25.1	-
386	Photographic equipment and supplies	139.8	139.9	141.8	142.3	-	69.6	67.1	69.7	70.0	-
387	Watches, clocks, and watchcases	19.6	20.5	17.9	17.0	-	14.2	15.1	12.5	11.9	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	407.5	417.0	390.4	378.4	390.8	301.1	309.6	283.6	273.5	287.3
391	Jewelry, silverware, and plated ware	53.0	55.4	57.0	53.8	-	37.7	39.5	40.0	37.4	-
3911	Jewelry, precious metal	34.4	35.5	36.6	34.3	-	23.7	24.9	25.6	23.3	-
393	Musical instruments	21.8	21.6	18.8	18.8	-	17.4	17.3	14.5	14.7	-
394	Toys and sporting goods	120.5	122.8	110.3	108.4	-	91.4	93.5	82.1	80.3	-
3942, 4	Dolls, games, toys, and children's vehicles	63.3	65.9	54.9	54.2	-	47.6	49.7	39.6	38.9	-
3949	Sporting and athletic goods, nec	57.2	56.9	55.4	54.2	-	43.8	43.8	42.5	41.4	-
395	Pens, pencils, office and art supplies	37.7	37.8	35.5	34.3	-	26.8	27.1	24.7	24.3	-
396	Costume jewelry and notions	43.1	46.6	41.5	38.1	-	32.6	35.7	31.6	28.6	-
3961	Costume jewelry	21.3	24.2	21.9	19.3	-	16.3	18.8	16.8	14.7	-
399	Miscellaneous manufactures	131.4	132.8	127.3	125.0	-	95.2	96.5	90.7	83.5	-
3993	Signs and advertising displays	46.0	46.8	45.9	45.0	-	33.1	34.1	32.8	31.6	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,703.0	1,759.6	1,627.0	1,672.9	1,733.7	1,172.4	1,230.9	1,108.5	1,151.2	1,211.3
201	Meat products	355.1	355.6	344.1	341.1	-	295.6	296.6	287.8	284.9	-
2011	Meat packing plants	154.0	155.3	146.2	143.8	-	126.0	127.4	120.2	117.7	-
2013	Sausages and other prepared meats	71.3	70.7	69.5	69.5	-	53.1	52.6	51.5	51.7	-
2016	Poultry dressing plants	116.9	116.3	114.5	114.5	-	105.6	105.3	104.0	103.9	-
202	Dairy products	174.7	173.3	172.1	172.3	-	97.6	96.7	97.3	98.9	-
2022	Cheese, natural and processed	36.3	35.8	35.8	35.9	-	27.7	27.2	27.0	27.3	-
2026	Fluid milk	98.2	97.5	95.2	94.8	-	44.1	44.0	43.4	43.3	-
203	Preserved fruits and vegetables	257.4	307.7	209.6	253.4	-	211.9	263.4	170.7	211.8	-
2032	Canned specialties	23.4	26.5	23.2	23.7	-	16.9	20.0	16.8	17.2	-
2033	Canned fruits and vegetables	109.8	151.9	67.1	101.5	-	92.4	135.3	52.6	84.5	-
2037	Frozen fruits and vegetables	46.9	50.3	47.3	52.6	-	40.3	43.8	41.3	46.3	-
204	Grain mill products	138.7	140.2	137.0	136.6	-	96.4	97.9	92.9	92.5	-
2041	Flour and other grain mill products	25.8	25.9	25.9	25.9	-	16.6	16.6	15.8	15.1	-
2048	Prepared feeds, nec	53.9	54.0	52.7	52.3	-	35.1	35.5	33.9	33.3	-
205	Bakery products	219.3	219.3	219.3	219.5	-	127.4	127.9	128.0	128.6	-
2051	Bread, cake, and related products	178.2	178.0	178.2	177.8	-	94.9	95.0	95.7	95.7	-
2052	Cookies and crackers	41.1	41.3	41.1	41.7	-	32.5	32.9	32.3	32.9	-
206	Sugar and confectionery products	100.0	104.9	98.9	98.8	-	74.8	79.2	74.4	74.3	-
2061-3	Cane and beet sugar	28.2	28.6	28.0	27.3	-	20.1	20.4	20.4	20.1	-
2065	Confectionery products	52.5	56.2	50.9	50.6	-	41.8	45.3	40.6	40.1	-
207	Fats and oils	41.6	41.4	42.9	41.7	-	30.7	30.5	32.0	30.9	-
208	Beverages	239.7	239.9	238.1	237.0	-	105.7	105.4	102.5	101.3	-
2082	Malt beverages	51.3	50.6	49.4	48.1	-	33.2	31.8	31.7	30.3	-
2086	Bottled and canned soft drinks	142.4	142.2	143.3	144.5	-	47.8	47.6	47.3	49.3	-
209	Misc. foods and kindred products	176.5	177.3	165.0	172.5	-	132.3	133.3	122.9	123.9	-
21	TOBACCO MANUFACTURES	65.3	73.8	62.0	60.8	69.2	49.9	58.0	47.7	46.4	54.8
211	Cigarettes	47.9	47.3	46.7	46.1	-	36.4	35.7	36.1	35.4	-
22	TEXTILE MILL PRODUCTS	819.6	829.7	744.5	727.0	735.1	708.8	718.4	636.2	621.1	629.3
221	Weaving mills, cotton	139.7	140.3	122.0	118.0	-	124.2	124.6	106.8	103.1	-
222	Weaving mills, synthetics	111.6	111.7	89.9	92.8	-	100.3	100.2	78.6	81.8	-
223	Weaving and finishing mills, wool	18.1	18.8	17.0	15.6	-	15.0	15.6	14.2	13.9	-
224	Narrow fabric mills	23.2	24.1	22.9	20.7	-	20.4	21.3	19.9	17.9	-
225	Knitting mills	219.7	221.3	207.6	202.6	-	189.7	191.6	179.6	174.3	-
2251	Women's hosiery, except socks	31.3	32.0	31.1	30.6	-	28.1	28.1	27.9	27.2	-
2252	Hosiery, nec	33.5	33.4	31.6	31.7	-	30.4	30.4	28.5	28.7	-
2253	Knit underwear mills	73.0	74.7	71.3	69.3	-	62.1	63.5	61.1	59.3	-
2254	Knit underwear mills	30.3	30.3	28.2	27.2	-	25.9	26.1	23.7	22.8	-

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				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
	TEXTILE MILL PRODUCTS—Continued										
2257	Circular knit fabric mills	29.7	29.5	25.3	24.5	-	25.0	25.0	21.4	20.9	-
226	Textile finishing, except wool	68.9	70.6	66.6	64.7	-	57.1	58.8	55.0	53.0	-
2261	Finishing plants, cotton	28.6	29.3	28.3	27.8	-	23.4	23.9	23.2	22.5	-
2262	Finishing plants, synthetics	26.5	27.2	24.8	23.8	-	22.2	22.7	20.6	19.7	-
227	Floor covering mills	52.6	53.4	49.1	47.6	-	42.3	42.9	38.5	37.5	-
228	Yarn and thread mills	120.2	123.0	109.7	106.2	-	108.3	110.9	96.8	94.2	-
2281	Yarn mills, except wool	82.0	83.3	75.3	73.4	-	75.1	76.3	67.5	66.2	-
2282	Throwing and winding mills	19.7	20.4	18.0	17.3	-	17.5	18.1	15.7	15.1	-
229	Miscellaneous textile goods	65.6	66.5	59.7	58.8	-	51.5	52.5	46.8	45.9	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,218.2	1,260.3	1,181.2	1,095.9	1,167.9	1,034.6	1,073.0	1,000.4	920.7	988.6
231	Men's and boys' suits and coats	74.4	77.5	76.2	70.7	-	64.9	67.7	66.4	61.4	-
232	Men's and boys' furnishings	346.6	354.8	332.8	314.9	-	295.5	303.3	283.1	266.5	-
2321	Men's and boys' shirts and nightwear	97.5	99.1	94.5	89.6	-	84.0	85.5	81.0	76.4	-
2327	Men's and boys' separate trousers	70.4	72.3	68.4	65.1	-	61.2	63.2	59.6	56.3	-
2328	Men's and boys' work clothing	100.1	102.8	96.1	90.6	-	82.9	85.3	80.0	74.7	-
233	Women's and misses' underwear	395.4	414.0	382.0	335.0	-	338.3	356.1	325.7	282.3	-
2331	Women's and misses' blouses and waists	61.8	62.9	60.0	49.1	-	53.8	54.8	51.8	40.9	-
2335	Women's and misses' dresses	128.4	138.6	128.4	114.2	-	112.1	121.9	111.3	98.7	-
2337	Women's and misses' suits and coats	62.9	67.0	57.2	52.1	-	53.6	57.5	48.8	43.7	-
2339	Women's and misses' outerwear, nec.	142.3	145.5	136.4	119.6	-	118.8	121.9	113.8	98.7	-
234	Women's and children's undergarments	89.6	91.8	85.7	83.2	-	76.3	78.2	72.8	70.3	-
2341	Women's and children's underwear	71.3	73.3	69.8	67.4	-	61.9	63.8	60.7	58.3	-
2342	Brassieres and allied garments	18.3	18.5	15.9	15.8	-	14.4	14.4	12.1	12.0	-
236	Children's outerwear	64.5	63.3	62.3	60.5	-	54.5	53.4	52.8	51.1	-
2361	Children's dresses and blouses	27.2	26.7	26.3	25.4	-	24.2	23.7	23.4	22.7	-
238	Misc. apparel and accessories	55.5	59.3	53.0	48.5	-	46.6	50.2	44.4	40.1	-
239	Misc. fabricated textile products	168.9	176.1	166.5	161.7	-	138.2	143.7	136.0	131.3	-
2391	Curtains and draperies	26.0	27.9	25.1	24.4	-	21.7	23.3	20.4	19.5	-
2392	House furnishings, nec.	46.9	49.5	46.1	45.4	-	38.7	40.9	38.1	37.7	-
2396	Automotive and apparel trimmings	27.0	28.8	27.5	26.7	-	22.0	23.0	22.4	21.2	-
26	PAPER AND ALLIED PRODUCTS	691.8	695.5	663.9	659.4	660.0	521.1	524.3	494.4	490.4	492.5
261, 2, 6	Paper and pulp mills	207.3	206.1	198.4	197.1	-	156.0	154.8	149.3	147.8	-
262	Paper mills, except building paper	178.6	178.0	171.6	170.6	-	133.4	132.7	127.7	125.5	-
263	Paperboard mills	63.9	64.3	60.5	61.0	-	50.0	50.5	46.7	47.2	-
264	Misc. converted paper products	220.9	222.2	214.1	212.4	-	163.0	163.8	154.5	153.1	-
2641	Paper coating and glazing	55.6	56.1	55.6	55.4	-	36.2	36.4	34.9	34.9	-
2642	Envelopes	25.0	25.1	24.9	24.1	-	19.4	19.4	19.0	18.3	-
2643	Bags, except textile bags	49.1	49.9	48.4	48.1	-	38.1	39.0	37.2	36.9	-
265	Paperboard containers and boxes	199.7	202.9	190.9	188.9	-	152.1	155.2	143.9	142.3	-
2651	Folding paperboard boxes	42.6	43.7	41.9	41.3	-	33.1	34.2	32.4	31.3	-
2653	Corrugated and solid fiber boxes	102.7	103.6	96.8	95.8	-	75.1	76.3	70.6	69.8	-
2654	Sanitary food containers	25.3	25.4	24.6	24.5	-	20.9	20.7	19.7	19.7	-
27	PRINTING AND PUBLISHING	1,264.0	1,265.9	1,269.8	1,262.4	1,261.7	692.2	694.9	694.3	687.3	687.5
271	Newspapers	422.7	423.3	425.3	423.6	-	160.9	161.4	160.4	158.5	-
272	Periodicals	96.7	96.8	100.0	100.6	-	18.4	18.5	21.8	21.7	-
273	Books	99.4	98.9	98.2	97.5	-	50.3	49.6	49.7	49.3	-
2731	Book publishing	70.2	69.8	69.1	69.0	-	26.2	25.9	25.9	25.1	-
2732	Book printing	29.2	29.1	29.1	28.5	-	24.1	23.7	23.8	23.2	-
274	Miscellaneous publishing	48.5	47.6	49.2	48.5	-	25.2	24.9	25.9	24.7	-
275	Commercial printing	414.2	415.5	414.6	410.3	-	303.6	305.1	303.5	299.7	-
2751	Commercial printing, letterpress	153.6	153.9	150.4	149.1	-	112.9	113.2	110.8	107.7	-
2752	Commercial printing, lithographic	238.2	239.0	241.7	239.1	-	172.7	173.6	175.0	172.6	-
276	Manifold business forms	49.0	49.2	48.8	48.5	-	34.0	34.1	34.1	34.1	-
278	Blankbooks and bookbinding	63.7	64.4	63.0	62.8	-	52.0	52.9	51.0	51.1	-
279	Printing trade services	44.2	43.9	45.1	44.6	-	32.6	32.3	33.2	33.3	-
28	CHEMICALS AND ALLIED PRODUCTS	1,116.7	1,112.0	1,083.4	1,075.0	1,075.4	633.2	631.3	602.8	594.1	599.7
281	Industrial inorganic chemicals, nec.	161.1	160.2	154.9	153.7	-	88.0	87.5	82.8	80.9	-
2819	Industrial inorganic chemicals, nec.	106.3	105.6	101.3	100.7	-	57.8	57.6	53.6	52.5	-
282	Plastics materials and synthetics	197.2	195.5	185.2	182.6	-	131.4	130.0	119.4	117.7	-
2821	Plastics materials and resins	79.4	78.6	74.5	74.0	-	47.2	46.7	43.5	43.2	-
2824	Organic fibers, noncellulosic	82.9	82.7	78.5	77.0	-	58.3	58.3	54.2	53.4	-
283	Drugs	200.8	200.0	201.1	201.2	-	99.9	99.6	98.6	97.8	-
2834	Pharmaceutical preparations	158.4	158.2	158.2	158.1	-	77.3	77.3	76.0	75.3	-
284	Soap, cleaners, and toilet goods	145.7	145.6	145.3	145.4	-	92.0	92.0	90.7	91.1	-
2841	Soap and other detergents	44.2	44.2	44.8	43.8	-	29.0	29.0	29.4	28.1	-
2844	Toilet preparations	62.9	62.7	62.0	62.9	-	42.1	41.8	40.7	41.3	-
2842, 3	Polishing, sanitation, and finishing preparations	38.6	38.7	38.5	38.7	-	20.9	21.2	20.6	21.2	-
285	Paints and allied products	64.5	64.5	61.0	60.8	-	32.1	32.3	29.9	29.8	-
286	Industrial organic chemicals	180.4	180.3	175.6	174.7	-	90.6	91.1	88.4	87.5	-

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				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	37.8	38.1	36.1	35.5	-	23.0	23.5	22.2	21.9	-
2861.9	Gum, wood, and industrial organic chemicals, nec	142.6	142.2	139.5	139.2	-	67.6	67.6	66.2	65.5	-
287	Agricultural chemicals	71.2	70.3	67.8	65.7	-	44.2	43.5	40.9	38.8	-
289	Miscellaneous chemical products	95.8	95.6	92.5	90.9	-	55.0	55.3	52.1	50.5	-
29	PETROLEUM AND COAL PRODUCTS	221.1	220.7	207.9	209.3	210.8	139.1	138.0	124.4	125.5	127.2
291	Petroleum refining	176.8	177.3	168.4	168.8	-	106.9	106.6	96.4	96.3	-
295	Paving and roofing materials	31.8	31.1	27.7	28.7	-	24.3	23.7	20.8	22.0	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	738.8	749.2	707.7	689.8	695.7	569.1	579.7	543.7	527.0	533.5
301	Tires and inner tubes	107.7	107.4	103.4	99.8	-	73.2	73.6	73.5	71.2	-
302	Rubber and plastics footwear	22.1	22.5	21.7	21.1	-	19.6	19.9	18.9	18.3	-
303.4	Reclaimed rubber, and rubber and plastics hose and belting	24.1	24.3	20.7	20.2	-	16.9	17.0	14.8	14.2	-
306	Fabricated rubber products, nec	104.7	106.8	96.6	93.9	-	81.7	83.4	73.4	70.7	-
307	Miscellaneous plastics products	480.2	488.2	465.3	454.8	-	377.7	385.8	363.1	352.6	-
31	LEATHER AND LEATHER PRODUCTS	228.4	239.1	216.8	155.7	212.6	192.8	202.6	181.7	162.1	177.2
311	Leather tanning and finishing	20.2	21.3	19.1	17.2	-	17.0	18.0	15.9	13.9	-
314	Footwear, except rubber	140.1	146.5	133.0	118.4	-	120.7	126.5	113.3	100.6	-
3143	Men's footwear, except athletic	54.4	58.7	51.9	44.4	-	46.6	50.4	42.7	36.4	-
3144	Women's footwear, except athletic	54.3	54.5	49.8	45.6	-	46.9	47.1	43.4	39.8	-
316	Luggage	15.3	15.3	13.9	13.3	-	11.5	11.4	10.6	9.5	-
317	Handbags and personal leather goods	29.5	30.6	27.9	24.8	-	24.3	25.2	22.8	19.7	-
	TRANSPORTATION AND PUBLIC UTILITIES	5,181	5,180	5,114	5,051	5,048	4,296	4,292	4,228	4,161	4,163
40	RAILROAD TRANSPORTATION	504.0	500.6	447.9	438.7	-	-	-	-	-	-
4011	Class I railroads ²	465.3	461.9	411.5	403.7	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	221.3	220.4	283.6	230.0	-	202.6	201.0	264.6	211.1	-
411	Local and suburban transportation	79.9	80.5	85.3	83.4	-	73.0	73.2	78.8	77.1	-
412	Taxicabs	46.4	45.4	45.2	43.5	-	-	-	-	-	-
413	Intercity highway transportation	40.3	40.4	37.7	38.5	-	37.0	37.1	34.6	35.3	-
415	School buses	38.2	37.2	96.0	47.0	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,263.3	1,268.8	1,216.3	1,209.6	-	1,102.5	1,107.8	1,057.0	1,051.3	-
421.3	Trucking and trucking terminals	1,178.4	1,180.5	1,134.0	1,129.3	-	1,031.7	1,034.2	988.5	984.6	-
422	Public warehousing	84.9	88.3	82.3	80.3	-	70.8	73.6	68.5	66.7	-
44	WATER TRANSPORTATION	226.7	223.2	203.8	199.6	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	462.4	462.4	437.1	443.9	-	-	-	-	-	-
451.2	Air transportation	410.8	410.9	385.4	392.4	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	22.9	22.8	22.8	22.9	-	16.2	16.1	15.6	15.7	-
47	TRANSPORTATION SERVICES	218.7	222.4	225.7	226.9	-	-	-	-	-	-
48	COMMUNICATION	1,393.5	1,392.4	1,401.0	1,397.8	-	1,043.4	1,041.1	1,061.2	1,060.5	-
481	Telephone communication	1,083.1	1,082.1	1,073.4	1,069.5	-	788.7	787.6	790.8	789.5	-
483	Radio and television broadcasting	208.2	207.8	217.3	217.1	-	168.4	168.1	177.2	177.1	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	868.6	867.4	875.3	881.3	-	712.0	711.2	708.9	713.2	-
491	Electric services	410.2	410.0	417.1	420.2	-	332.7	332.2	332.8	334.7	-
492	Gas production and distribution	180.7	180.5	182.6	183.0	-	148.2	148.0	147.5	148.9	-
493	Combination utility services	202.4	202.2	198.6	200.3	-	166.5	166.6	162.6	163.3	-
495	Sanitary services	51.2	50.8	53.3	54.3	-	44.6	44.5	46.8	47.6	-
-	WHOLESALE AND RETAIL TRADE	20,600	20,664	20,673	20,598	20,547	17,993	18,052	18,071	18,000	17,937
50.51	WHOLESALE TRADE	5,391	5,402	5,339	5,314	5,295	4,392	4,395	4,317	4,297	4,276
50	WHOLESALE TRADE - DURABLE GOODS	3,199	3,201	3,149	3,126	-	2,600	2,598	2,532	2,512	-
501	Motor vehicles and automotive equipment	413.7	414.7	416.5	416.9	-	333.2	334.2	336.5	335.9	-
502	Furniture and home furnishing	115.4	116.7	117.5	116.5	-	93.8	95.1	96.5	95.5	-
503	Lumber and construction materials	193.7	193.5	182.2	182.3	-	159.4	159.3	148.9	143.7	-
504	Sporting goods, toys, and hobby goods	71.1	71.4	72.4	72.1	-	57.2	57.2	58.1	58.2	-
505	Metals and minerals, except petroleum	153.6	153.0	140.9	137.7	-	124.2	123.3	111.4	108.8	-
506	Electrical goods	432.9	434.6	436.7	434.3	-	349.2	350.5	349.3	348.5	-
507	Hardware, plumbing, and heating equipment	246.5	245.5	237.5	237.6	-	201.9	200.2	192.0	192.1	-

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				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,366.2	1,365.6	1,361.4	1,351.4	-	1,107.1	1,103.9	1,085.5	1,077.5	-
509	Miscellaneous durable goods	206.3	206.2	183.5	177.6	-	174.4	174.2	152.6	147.3	-
51	WHOLESALE TRADE-NONDURABLE GOODS	2,192	2,201	2,190	2,188	-	1,792	1,797	1,785	1,785	-
511	Paper and paper products	155.2	155.0	156.7	157.3	-	126.2	125.6	125.9	126.4	-
512	Drugs, proprietaries, and sundries	150.6	150.8	154.2	155.1	-	127.6	127.1	129.7	131.3	-
513	Apparel, piece goods, and notions	168.9	170.1	171.3	169.4	-	132.8	133.1	133.9	132.3	-
514	Groceries and related products	672.7	674.9	665.9	666.7	-	578.5	579.7	573.5	574.2	-
516	Chemicals and allied products	133.6	134.1	137.6	136.9	-	96.7	96.9	97.8	98.5	-
517	Petroleum and petroleum products	235.6	235.3	234.3	233.9	-	178.1	177.3	176.3	175.7	-
518	Beer, wine, and distilled beverages	145.2	145.0	146.9	148.8	-	122.0	121.6	122.6	124.4	-
519	Miscellaneous nondurable goods	397.2	394.0	397.9	395.7	-	322.4	320.2	323.7	322.7	-
52-59	RETAIL TRADE	15,209	15,262	15,334	15,284	15,252	13,601	13,657	13,754	13,703	13,661
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	618.8	613.1	602.3	598.6	-	523.1	518.0	508.5	504.9	-
521	Lumber and other building materials	325.0	324.3	313.5	314.2	-	275.3	274.7	265.3	266.2	-
525	Hardware stores	152.2	150.0	148.0	147.0	-	129.9	128.1	126.3	125.6	-
53	GENERAL MERCHANDISE STORES	2,195.5	2,210.8	2,193.6	2,193.8	-	1,977.0	1,999.4	2,032.1	2,034.7	-
531	Department stores	1,838.6	1,851.9	1,838.9	1,840.1	-	1,655.1	1,675.5	1,711.5	1,715.2	-
533	Variety stores	228.6	230.2	221.3	221.2	-	211.6	213.6	205.2	204.5	-
539	Misc. general merchandise stores	128.3	128.7	133.4	132.5	-	110.3	110.3	115.4	115.0	-
54	FOOD STORES	2,422.1	2,421.2	2,465.6	2,463.2	-	2,246.1	2,249.9	2,285.9	2,285.1	-
541	Grocery stores	2,128.6	2,127.2	2,163.5	2,164.4	-	1,979.7	1,982.3	2,010.7	2,014.1	-
542	Meat markets and freezer provisioners	55.3	54.9	55.4	56.0	-	-	-	-	-	-
546	Retail bakeries	124.8	125.1	128.8	124.9	-	114.4	115.3	119.1	115.3	-
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,661.7	1,660.2	1,658.2	1,659.8	-	1,409.5	1,407.5	1,398.7	1,400.8	-
551.2	New and used car dealers	750.2	748.2	736.8	737.9	-	613.9	612.9	603.7	605.5	-
553	Auto and home supply stores	268.0	268.9	276.7	277.4	-	232.4	233.2	238.2	239.1	-
564	Gasoline service stations	561.5	562.2	557.2	557.2	-	492.3	491.7	485.5	485.7	-
56	APPAREL AND ACCESSORY STORES	943.7	949.2	959.6	948.9	-	806.6	812.1	816.1	805.1	-
561	Men's and boys' clothing and furnishings	125.9	124.6	126.4	124.8	-	106.7	105.4	107.3	105.5	-
562	Women's ready-to-wear stores	339.1	340.1	345.6	341.1	-	293.9	294.7	297.4	293.3	-
565	Family clothing stores	176.1	177.2	175.0	175.2	-	153.6	155.8	152.7	153.3	-
566	Shoe stores	201.8	206.1	211.4	206.8	-	166.2	169.4	171.9	167.5	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	598.1	595.7	588.8	586.5	-	493.9	491.7	486.0	484.5	-
571	Furniture and home furnishings stores	373.4	371.8	364.2	362.1	-	309.5	307.6	301.0	299.4	-
572	Household appliance stores	79.7	78.6	80.0	80.2	-	68.1	67.3	67.1	67.7	-
573	Radio, television, and music stores	145.0	145.3	144.6	144.2	-	116.3	116.8	117.9	117.5	-
56	EATING AND DRINKING PLACES	4,852.8	4,878.0	4,906.9	4,883.2	-	4,476.3	4,492.6	4,523.6	4,494.0	-
59	MISCELLANEOUS RETAIL	1,916.4	1,933.7	1,958.5	1,950.1	-	1,668.9	1,685.8	1,702.7	1,693.5	-
591	Drug stores and proprietary stores	497.7	500.7	495.4	495.1	-	449.5	452.2	443.3	442.9	-
592	Liquor stores	136.0	136.1	134.6	135.8	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	598.4	607.9	630.0	628.6	-	509.4	519.2	537.9	536.1	-
596	Nonstore retailers	255.2	258.9	264.9	264.8	-	235.1	238.7	244.2	244.3	-
598	Fuel and ice dealers	100.5	99.8	101.2	99.8	-	83.5	82.8	83.9	82.5	-
599	Retail stores, nec.	266.0	267.5	269.5	262.4	-	222.7	223.8	226.2	219.5	-
-	FINANCE, INSURANCE, AND REAL										
	ESTATE ²	5,376	5,374	5,406	5,422	5,429	4,071	4,070	4,060	4,070	4,067
60	BANKING	1,643.6	1,644.9	1,664.4	1,667.8	-	1,258.6	1,258.0	1,250.4	1,251.8	-
602	Commercial and stock savings banks	1,497.3	1,499.0	1,518.3	1,520.8	-	1,140.6	1,140.2	1,133.4	1,134.4	-
61	CREDIT AGENCIES OTHER THAN BANKS	587.8	585.7	587.2	587.7	-	447.0	444.8	443.6	443.8	-
612	Savings and loan associations	265.8	264.3	273.1	274.1	-	201.4	200.1	208.4	209.5	-
614	Personal credit institutions	204.2	203.2	194.6	193.2	-	158.0	157.4	149.1	147.5	-
62	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	266.0	268.5	279.6	281.0	-	-	-	-	-	-
621	Security brokers and dealers	218.6	221.0	233.0	234.1	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,240.4	1,236.4	1,230.5	1,230.5	-	859.0	855.7	841.9	840.5	-
631	Life insurance	542.8	541.4	542.2	543.0	-	338.1	337.1	334.7	334.2	-

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				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug- 1982P	July 1981	Aug- 1981	June 1982	July 1982P	Aug- 1982P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	143.1	142.5	142.3	142.0	-	113.3	112.8	112.9	112.3	-
633	Fire, marine, and casualty insurance	478.2	477.5	474.6	473.9	-	347.8	347.4	339.5	339.1	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	468.3	468.1	480.2	479.1	-	-	-	-	-	-
65	REAL ESTATE	1,027.5	1,028.1	1,015.5	1,025.5	-	-	-	-	-	-
651	Real estate operators and lessors	481.7	482.0	487.6	494.4	-	-	-	-	-	-
653	Real estate agents and managers	387.5	388.3	380.8	383.9	-	-	-	-	-	-
655	Subdividers and developers	137.8	137.2	129.2	129.4	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC.	19.5	19.3	19.4	19.3	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES	122.4	123.1	129.5	131.3	-	-	-	-	-	-
-	SERVICES	18,771	18,771	19,140	19,209	19,191	16,712	16,705	17,005	17,048	17,018
70	HOTELS AND OTHER LODGING PLACES	1,230.6	1,243.1	1,156.0	1,202.5	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	1,149.9	1,158.4	1,109.6	1,126.6	-	1,055.1	1,063.8	1,020.7	1,033.7	-
72	PERSONAL SERVICES	897.0	892.0	915.4	908.0	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	352.2	349.5	351.6	348.7	-	315.2	312.8	314.1	311.4	-
723	Beauty shops	281.9	282.2	295.1	293.7	-	261.6	262.4	272.0	270.3	-
726	Funeral service and crematories	71.7	71.9	74.1	74.6	-	-	-	-	-	-
73	BUSINESS SERVICES	3,273.8	3,307.6	3,297.5	3,304.1	-	2,863.3	2,892.0	2,873.3	2,877.3	-
731	Advertising	156.5	156.0	160.0	159.9	-	120.5	120.0	123.4	123.1	-
732	Credit reporting and collection	75.8	76.0	75.7	76.3	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	127.4	128.1	131.4	129.7	-	-	-	-	-	-
734	Services to buildings	515.0	521.5	538.0	541.2	-	467.3	473.4	489.9	493.2	-
736	Personnel supply services	617.5	634.5	551.3	551.3	-	-	-	-	-	-
737	Computer and data processing services	336.9	339.0	355.6	356.6	-	281.5	278.3	291.2	291.9	-
75	AUTO REPAIR, SERVICES, AND GARAGES	573.2	573.5	583.5	582.0	-	488.5	488.8	493.7	491.7	-
753	Automotive repair shops	356.0	357.3	362.2	363.8	-	301.3	302.5	302.2	303.8	-
76	MISCELLANEOUS REPAIR SERVICES	295.8	298.1	296.6	296.3	-	248.3	251.4	250.8	250.1	-
78	MOTION PICTURES	217.7	221.5	221.5	227.6	-	189.5	192.1	190.8	199.2	-
781	Motion picture production and services	70.4	75.3	78.7	79.3	-	57.5	60.7	62.7	64.8	-
783	Motion picture theaters	136.2	135.3	132.2	138.0	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	875.7	872.9	945.4	976.3	-	799.8	797.5	862.5	890.5	-
80	HEALTH SERVICES	5,601.8	5,609.4	5,800.5	5,820.8	-	5,015.8	5,021.9	5,199.2	5,215.7	-
801	Offices of physicians	793.6	794.6	822.0	822.1	-	655.3	655.9	675.6	673.8	-
802	Offices of dentists	362.9	362.1	385.8	389.0	-	320.8	319.6	341.0	343.9	-
805	Nursing and personal care facilities	1,037.3	1,039.9	1,071.2	1,073.3	-	939.2	941.5	970.0	972.8	-
806	Hospitals	2,927.6	2,929.8	3,019.7	3,032.0	-	2,684.9	2,686.5	2,773.0	2,783.7	-
81	LEGAL SERVICES	547.3	544.6	576.7	583.6	-	471.2	466.0	488.6	495.0	-
82	EDUCATIONAL SERVICES	1,001.6	987.0	1,083.1	991.6	-	-	-	-	-	-
821	Elementary and secondary schools	271.6	263.6	304.5	272.3	-	-	-	-	-	-
822	Colleges and universities	616.1	610.4	656.8	601.0	-	-	-	-	-	-
83	SOCIAL SERVICES	1,166.6	1,153.2	1,170.1	1,211.5	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,538.0	1,523.6	1,538.9	1,547.0	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	1,060.9	1,058.5	1,065.6	1,069.0	-	888.7	882.5	872.8	873.5	-
891	Engineering and architectural services	584.7	582.6	578.0	578.0	-	500.3	494.4	475.4	475.0	-
893	Accounting, auditing, and bookkeeping	333.8	333.9	345.6	348.8	-	268.1	268.5	278.6	279.3	-
	GOVERNMENT	15,334	15,097	15,971	15,082	14,902	-	-	-	-	-
-	FEDERAL GOVERNMENT	2,833	2,803	2,786	2,790	2,754	-	-	-	-	-
-	Executive, by agency ⁴	2,776.7	2,748.1	2,730.0	2,733.2	-	-	-	-	-	-
-	Department of Defense	940.6	930.7	961.0	964.5	-	-	-	-	-	-
-	Postal Service	663.8	663.3	664.9	665.5	-	-	-	-	-	-
-	Other executive agencies	1,172.3	1,154.1	1,104.1	1,103.2	-	-	-	-	-	-
-	Legislative	40.9	39.7	40.5	40.9	-	-	-	-	-	-
-	Judicial	15.2	15.3	15.6	15.7	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
	FEDERAL GOVERNMENT—Continued										
	Federal Government, by industry										
-	Manufacturing activities	134.1	133.2	139.2	139.6	-	-	-	-	-	-
3731	Shipbuilding and repairing	78.5	78.4	82.4	82.7	-	-	-	-	-	-
-	Transportation and public utilities, except										
-	Postal Service	42.6	42.4	42.8	42.5	-	-	-	-	-	-
-	Services	399.1	400.4	400.7	405.0	-	-	-	-	-	-
808	Federal government hospitals	233.0	232.7	235.9	238.6	-	-	-	-	-	-
	STATE AND LOCAL GOVERNMENT	12,501	12,294	13,185	12,292	12,148	-	-	-	-	-
-	State government	3,436.0	3,421.4	3,503.8	3,417.3	-	-	-	-	-	-
806	State government hospitals	521.7	520.6	517.5	518.6	-	-	-	-	-	-
82	State education	1,183.7	1,166.7	1,282.5	1,178.0	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions	1,066.9	1,070.7	1,064.4	1,076.6	-	-	-	-	-	-
-	Local government	9,064.6	8,872.1	9,681.1	8,874.4	-	-	-	-	-	-
-	Transportation and public utilities	583.1	581.2	582.2	585.9	-	-	-	-	-	-
806	Local government hospitals	631.8	630.1	648.2	651.2	-	-	-	-	-	-
82	Local education	4,352.3	4,250.8	5,250.0	4,241.0	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions	3,088.3	3,017.3	2,878.8	3,043.6	-	-	-	-	-	-

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 SIC Code	Industry	May 1981	June 1981	Apr. 1982	May 1982	June 1982
-	TOTAL	39,174	39,216	39,233	39,366	39,358
-	PRIVATE SECTOR	31,165	31,410	31,356	31,499	31,578
-	MINING	120	131	141	140	141
10	METAL MINING	9.5	10.0	7.2	6.6	6.4
11, 12	COAL MINING	4.4	10.6	11.7	11.7	11.5
13	OIL AND GAS EXTRACTION	96.1	100.2	112.3	111.7	113.0
131, 2	Crude petroleum, natural gas, and natural gas liquids.....	60.9	64.0	69.2	69.4	71.1
138	Oil and gas field services.....	35.2	36.2	43.1	42.3	41.9
14	NONMETALLIC MINERALS, EXCEPT FUELS	10.1	10.3	9.4	9.5	9.7
142	Crushed and broken stone.....	2.8	2.8	2.6	2.7	2.8
144	Sand and gravel.....	3.2	3.3	2.9	3.0	3.1
-	CONSTRUCTION	378	387	379	381	386
15	GENERAL BUILDING CONTRACTORS	127.3	130.2	120.3	120.7	121.9
152	Residential building construction.....	71.4	78.0	68.0	68.6	59.8
153	Operative builders.....	15.1	14.9	13.8	13.5	13.4
154	Nonresidential building construction.....	40.8	41.3	38.5	38.6	38.7
16	HEAVY CONSTRUCTION CONTRACTORS	62.9	65.8	63.3	63.6	66.5
161	Highway and street construction.....	18.1	19.1	14.3	14.3	15.4
162	Heavy construction, except highway.....	44.8	46.7	49.0	49.3	51.1
17	SPECIAL TRADE CONTRACTORS	188.2	191.2	195.7	196.5	197.2
171	Plumbing, heating, air conditioning.....	51.2	52.1	52.3	52.3	52.9
172	Painting, paper hanging, decorating.....	12.0	12.1	12.0	11.9	11.9
173	Electrical work.....	36.5	36.5	37.4	37.7	38.0
174	Masonry, stonework, and plastering.....	20.8	21.4	20.7	21.6	21.0
175	Carpentering and flooring.....	14.1	14.5	14.0	13.6	13.7
176	Roofing and sheet metal work.....	12.4	12.5	12.4	12.6	12.7
-	MANUFACTURING	6,342	6,416	6,039	6,040	6,049
24, 25, 32-39	DURABLE GOODS	3,050	3,083	2,894	2,886	2,880
20-23, 26-31	NONDURABLE GOODS	3,292	3,333	3,145	3,154	3,159
-	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	105.2	105.2	90.0	91.7	92.2
241	Logging camps and logging contractors.....	5.4	5.5	5.2	5.4	5.7
242	Sawmills and planing mills.....	20.2	20.4	17.1	17.3	17.7
2421	Sawmills and planing mills, general.....	14.2	14.4	12.0	12.2	12.4
243	Millwork, plywood, and structural members.....	42.5	41.7	34.3	35.4	35.7
244	Wood containers.....	7.2	7.1	6.8	6.9	6.9
245	Wood buildings and mobile homes.....	9.0	9.2	7.2	7.5	7.3
249	Miscellaneous wood products.....	20.9	21.3	19.4	19.2	18.9
25	FURNITURE AND FIXTURES	141.3	141.8	133.8	132.6	131.2
251	Household furniture.....	100.7	99.9	92.7	91.4	89.6
2511	Wood household furniture.....	41.9	42.1	39.0	38.7	37.7
2512	Upholstered household furniture.....	32.1	32.3	29.1	29.3	29.1
2515	Mattresses and bedsprings.....	8.6	8.7	7.9	8.0	7.8
252	Office furniture.....	13.8	14.1	13.6	13.8	13.7
253	Public building and related furniture.....	5.1	5.1	5.4	5.2	5.3
254	Partitions and fixtures.....	10.6	10.7	10.2	10.1	10.2
259	Miscellaneous furniture and fixtures.....	11.7	12.0	11.9	12.1	12.4
32	STONE, CLAY, AND GLASS PRODUCTS	125.2	128.2	116.2	116.3	115.7
322	Glass and glassware, pressed or blown.....	40.7	41.3	36.9	36.5	36.7
3221	Glass containers.....	23.1	23.4	21.5	21.6	21.8
3229	Pressed and blown glass, nec.....	17.6	17.9	15.4	14.9	14.9
323	Products of purchased glass.....	12.7	13.3	11.9	12.0	12.1
324	Cement, hydraulic.....	1.8	1.9	1.7	1.7	1.7
325	Structural clay products.....	6.2	6.5	5.5	5.7	5.7
326	Pottery and related products.....	14.6	14.6	13.6	13.7	13.5
327	Concrete, gypsum, and plaster products.....	15.2	15.5	14.3	14.5	14.9
329	Misc. nonmetallic mineral products.....	31.1	31.8	29.1	29.0	28.9
33	PRIMARY METAL INDUSTRIES	126.8	128.0	107.7	106.5	106.0
331	Blast furnace and basic steel products.....	42.2	42.8	32.6	31.9	30.9
3312	Blast furnaces and steel mills.....	31.8	32.2	23.5	22.7	21.9
332	Iron and steel foundries.....	18.5	18.2	16.4	15.9	15.9

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	May 1981	June 1981	Apr. 1982	May 1982	June 1982
PRIMARY METAL INDUSTRIES—Continued						
3321	Gray iron foundries	8.7	8.8	7.1	6.9	7.0
3322	Malleable iron foundries	1.1	1.2	1.0	.9	1.0
3325	Steel foundries, nec	4.7	4.5	4.2	4.0	2.9
333	Primary nonferrous metals	5.0	5.4	4.5	4.4	4.3
3334	Primary aluminum	2.3	2.5	1.9	1.9	1.8
335	Nonferrous rolling and drawing	39.8	40.1	34.5	34.8	34.9
3351	Copper rolling and drawing	3.5	3.6	3.0	3.0	3.0
3353	Aluminum sheet, plate, and foil	4.1	4.2	3.1	3.1	3.2
3357	Nonferrous wire drawing and insulating	24.2	24.1	21.3	21.5	21.5
336	Nonferrous foundries	15.6	15.7	14.1	14.0	14.5
3361	Aluminum foundries	8.2	8.2	7.3	7.3	7.5
34	FABRICATED METAL PRODUCTS	340.4	343.3	309.4	307.1	337.5
341	Metal cans and shipping containers	12.9	13.1	11.7	11.7	12.0
3411	Metal cans	11.0	11.2	9.9	9.9	10.1
342	Cutlery, hand tools, and hardware	55.2	55.7	47.4	46.4	46.2
3423, 5	Hand and edge tools, and hand saws and blades	15.5	15.8	14.2	13.4	13.1
3429	Hardware, nec	32.8	33.1	27.2	26.9	27.1
343	Plumbing and heating, except electric	16.8	16.8	16.6	16.6	16.5
344	Fabricated structural metal products	73.2	74.0	67.6	67.3	57.8
3441	Fabricated structural metal	7.8	7.8	7.5	7.3	7.1
3442	Metal doors, sash, and trim	21.0	21.5	19.0	19.5	20.3
3443	Fabricated plate work (boiler shops)	18.9	19.0	17.8	17.3	17.1
3444	Sheet metal work	15.6	15.7	14.8	14.5	14.4
345	Screw machine products, bolts, etc.	24.0	23.9	21.2	20.9	21.0
3451	Screw machine products	11.9	11.8	10.5	10.4	10.5
3452	Bolts, nuts, rivets, and washers	12.1	12.1	10.7	10.5	10.5
346	Metal forgings and stampings	54.8	55.1	46.4	46.3	45.3
3462	Iron and steel forgings	4.3	4.3	3.6	3.5	3.4
3465	Automotive stampings	15.1	15.3	12.0	12.6	12.9
3469	Metal stampings, nec	32.7	32.8	28.4	27.8	27.5
347	Metal services, nec	23.9	24.1	22.4	22.5	22.6
3471	Plating and polishing	17.2	17.3	16.5	16.6	16.7
3479	Metal coating and allied services	6.7	6.8	5.9	5.9	5.9
348	Ordnance and accessories, nec	19.6	19.8	19.9	20.0	20.3
349	Misc. fabricated metal products	60.0	60.8	56.2	55.4	54.8
3494	Valves and pipe fittings	23.1	23.4	21.9	21.3	20.9
3496	Misc. fabricated wire products	14.2	14.3	13.8	13.8	13.7
35	MACHINERY, EXCEPT ELECTRICAL	505.4	511.9	502.5	499.0	492.7
351	Engines and turbines	22.8	23.3	21.6	21.7	20.6
3511	Turbines and turbine generator sets	6.5	6.6	6.5	6.4	6.4
3519	Internal combustion engines, nec	16.3	16.7	15.1	15.3	14.2
352	Farm and garden machinery	25.0	24.1	24.8	24.2	22.9
3523	Farm machinery and equipment	19.4	19.3	16.9	16.7	16.3
353	Construction and related machinery	51.7	52.9	52.6	51.3	49.2
3531	Construction machinery	14.9	15.5	14.5	14.4	13.6
3533	Oil field machinery	16.7	17.1	19.5	18.7	17.7
354	Metalworking machinery	59.4	59.8	52.9	51.9	51.1
3541	Machine tools, metal cutting types	10.6	10.7	9.3	9.0	8.6
3544	Special dies, tools, jigs, and fixtures	16.7	16.8	14.9	14.8	14.9
3545	Machine tool accessories	14.0	14.1	12.5	12.2	12.1
355	Special industry machinery	29.7	30.6	27.9	27.6	27.6
3551	Food products machinery	5.8	5.8	5.4	5.4	5.4
3552	Textile machinery	5.1	5.1	4.6	4.5	4.5
3555	Printing trades machinery	6.6	6.8	6.9	7.0	7.2
356	General industrial machinery	64.1	64.8	59.3	58.5	58.1
3561	Pumps and pumping equipment	11.5	11.6	11.1	10.8	10.5
3562	Ball and roller bearings	14.3	14.1	12.7	12.4	13.1
357	Office and computing machines	164.2	167.2	180.4	181.4	131.9
3573	Electronic computing equipment	137.7	140.5	154.8	155.0	156.0
358	Refrigeration and service machinery	39.1	39.7	36.3	35.6	35.0
3585	Refrigeration and heating equipment	26.5	26.7	24.2	23.7	23.2
359	Misc. machinery, except electrical	49.4	49.5	46.7	46.8	46.3
3599	Machinery, except electrical, nec	38.8	39.2	37.5	37.5	37.2
36	ELECTRIC AND ELECTRONIC EQUIPMENT	895.5	903.7	866.3	866.2	864.8
361	Electric distributing equipment	46.6	47.5	43.5	42.5	42.1
3612	Transformers	19.2	19.6	18.1	17.8	17.4
3613	Switchgear and switchboard apparatus	27.4	27.9	25.4	24.7	24.7
362	Electrical industrial apparatus	92.7	93.1	82.0	82.3	81.5
3621	Motors and generators	51.8	51.8	44.0	43.9	43.3
3622	Industrial controls	29.0	29.2	27.3	27.7	27.0
363	Household appliances	60.7	61.2	52.2	52.3	53.2
3632	Household refrigerators and freezers	10.7	10.9	8.2	8.3	8.5
3633	Household laundry equipment	4.6	4.9	3.5	3.6	3.5
3634	Electric housewares and fans	27.9	28.1	25.3	25.4	26.4
364	Electric lighting and wiring equipment	92.4	94.2	86.5	84.9	84.1
3641	Electric lamps	19.6	20.5	20.4	20.3	19.4

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	May 1981	June 1981	Apr. 1982	May 1982	June 1982
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	40.7	41.5	37.8	36.8	37.3
365	Radio and TV receiving equipment	57.0	57.0	50.4	50.9	50.0
3651	Radio and TV receiving sets	42.1	42.6	37.8	37.7	38.2
366	Communication equipment	210.8	212.7	211.6	211.1	210.0
3661	Telephone and telegraph apparatus	76.1	75.0	70.4	69.7	68.3
3662	Radio and TV communication equipment	134.7	137.7	141.2	141.4	141.7
367	Electronic components and accessories	282.6	285.0	285.2	287.1	288.8
3671-3	Electronic tubes	16.6	16.6	15.7	16.0	16.2
3674	Semiconductors and related devices	102.7	102.8	103.7	105.5	105.5
3679	Electronic components, nec.	115.6	116.8	119.4	119.5	119.9
369	Misc. electrical equipment and supplies	52.7	53.0	54.9	55.1	55.1
3694	Engine electrical equipment	22.9	22.9	24.8	24.8	24.8
TRANSPORTATION EQUIPMENT						
37	Motor vehicles and equipment	309.1	314.7	286.2	285.9	286.2
371	Motor vehicles and equipment	113.7	117.7	97.8	100.7	100.6
3711	Motor vehicles and car bodies	42.2	43.9	32.3	34.1	33.5
3713	Truck and bus bodies	3.9	4.2	3.3	3.4	3.3
3714	Motor vehicle parts and accessories	64.2	66.2	58.8	59.7	59.4
372	Aircraft and parts	123.6	124.2	119.4	117.5	117.5
3721	Aircraft	66.9	67.7	66.1	64.8	64.9
3724	Aircraft engines and engine parts	29.2	29.0	26.1	25.8	25.5
3728	Aircraft equipment, nec.	27.5	27.5	27.2	26.9	27.0
373	Ship and boat building and repairing	24.0	24.9	23.1	23.5	23.2
3731	Ship building and repairing	17.7	18.6	17.0	17.3	17.0
374	Railroad equipment	6.0	5.9	4.2	4.1	4.1
376	Guided missiles, space vehicles, parts	27.1	27.3	29.0	29.2	29.4
3761	Guided missiles and space vehicles	22.0	22.2	23.6	23.9	24.1
379	Miscellaneous transportation equipment	7.8	7.8	7.1	7.1	7.2
INSTRUMENTS AND RELATED PRODUCTS						
38	Engineering and scientific instruments	309.2	312.3	303.1	303.2	334.3
381	Engineering and scientific instruments	24.5	24.6	24.2	24.2	24.3
382	Measuring and controlling devices	111.2	112.3	105.7	105.6	105.2
3822	Environmental controls	24.1	23.4	20.8	21.1	21.1
3823	Process control instruments	20.3	21.0	19.7	19.6	19.6
3825	Instruments to measure electricity	48.1	48.9	48.3	47.9	47.9
383	Optical instruments and lenses	11.4	11.8	11.6	11.8	11.7
384	Medical instruments and supplies	86.6	87.1	88.5	88.1	88.4
3841	Surgical and medical instruments	42.8	43.1	43.3	43.3	44.0
3842	Surgical appliances and supplies	35.7	36.0	37.4	37.0	35.7
385	Ophthalmic goods	24.9	24.5	22.1	22.3	22.4
386	Photographic equipment and supplies	39.1	40.6	40.2	40.5	41.5
387	Watches, clocks, and watchcases	11.5	11.4	10.8	10.7	10.8
MISCELLANEOUS MANUFACTURING INDUSTRIES						
39	Jewelry, silverware, and plated ware	191.6	194.1	178.9	177.9	179.4
391	Jewelry, silverware, and plated ware	25.8	25.9	25.4	25.3	25.3
393	Musical instruments	9.9	10.0	9.1	9.0	8.6
394	Toys and sporting goods	62.1	63.2	55.7	56.0	56.3
3942, 4	Dolls, games, toys, and children's vehicles	33.3	34.6	28.7	29.1	30.0
3949	Sporting and athletic goods, nec.	28.8	28.6	27.0	26.9	26.3
395	Pens, pencils, office and art supplies	20.0	20.2	19.2	18.8	18.6
396	Costume jewelry and notions	26.8	26.9	23.0	23.3	23.7
399	Miscellaneous manufactures	47.0	47.9	46.5	45.5	45.9
NONDURABLE GOODS						
FOOD AND KINDRED PRODUCTS						
20	Meat products	479.8	489.8	459.7	469.5	479.3
201	Meat products	116.2	117.0	110.7	113.1	114.4
2011	Meat packing plants	27.9	28.4	26.6	27.1	26.6
2013	Sausages and other prepared meats	20.9	21.4	20.4	21.0	21.2
2016	Poultry dressing plants	59.9	60.5	57.2	58.3	59.6
202	Dairy products	36.9	38.2	35.5	36.2	37.3
2026	Fluid milk	16.9	17.1	15.9	16.1	16.4
203	Preserved fruits and vegetables	86.5	88.1	79.8	83.1	86.2
2032	Canned specialties	8.3	8.1	7.8	8.0	8.0
2033	Canned fruits and vegetables	24.6	24.5	20.8	22.1	23.0
2037	Frozen fruits and vegetables	21.2	22.4	18.8	20.6	21.5
204	Grain mill products	28.9	29.3	28.3	28.2	28.7
205	Bakery products	57.0	57.7	57.4	57.7	58.6
2051	Bread, cake, and related products	38.0	38.6	38.2	38.9	39.3
2052	Cookies and crackers	19.0	19.1	19.2	18.8	19.3
206	Sugar and confectionery products	38.5	38.6	37.3	37.7	38.3
207	Fats and oils	5.8	5.7	5.7	5.9	5.8
208	Beverages	41.1	41.6	43.1	43.5	44.0
2082	Malt beverages	7.5	7.6	8.2	8.5	8.4
2086	Bottled and canned soft drinks	18.5	18.6	19.6	19.7	20.0
209	Misc. foods and kindred products	68.9	73.6	61.9	64.1	56.0
TOBACCO MANUFACTURES						
21	Cigarettes	22.9	23.0	21.0	21.0	21.4
211	Cigarettes	14.8	15.3	13.9	13.7	14.4

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	May 1981	June 1981	Apr. 1982	May 1982	June 1982
22	TEXTILE MILL PRODUCTS	393.1	396.6	366.7	361.9	355.8
221	Weaving mills, cotton	61.3	61.6	57.0	55.5	53.3
222	Weaving mills, synthetics	46.4	46.5	42.8	39.6	36.0
223	Weaving and finishing mills, wool	7.4	7.5	6.9	6.7	6.5
224	Narrow fabric mills	14.3	14.4	13.8	13.6	13.5
225	Knitting mills	140.9	142.6	130.8	132.5	134.1
2251	Women's hosiery, except socks	24.6	24.8	23.1	23.9	24.3
2252	Hosiery, nec	23.8	24.1	22.1	22.1	22.3
2253	Knit outerwear mills	50.4	51.3	48.1	49.3	50.1
2254	Knit underwear mills	22.7	23.0	20.2	20.3	22.7
2257	Circular knit fabric mills	11.4	11.3	10.0	9.9	9.7
226	Textile finishing, except wool	21.2	21.5	20.3	20.5	20.5
2261	Finishing plants, cotton	9.2	9.6	9.3	9.8	9.7
2262	Finishing plants, synthetic	6.1	6.1	5.6	5.4	5.4
227	Floor covering mills	22.4	22.3	20.9	20.9	20.9
228	Yarn and thread mills	59.9	60.5	56.3	55.2	54.1
2281	Yarn mills, except wool	38.4	38.5	36.7	35.6	35.1
2282	Throwing and winding mills	11.7	12.0	10.5	10.4	10.3
229	Miscellaneous textile goods	19.3	19.7	17.9	17.4	16.9
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,014.7	1,026.9	942.8	944.1	951.4
231	Men's and boys' suits and coats	59.2	60.3	58.0	57.9	58.4
232	Men's and boys' furnishings	296.8	300.7	275.3	278.1	280.3
2321	Men's and boys' shirts and nightwear	84.7	86.1	80.8	80.7	82.6
2327	Men's and boys' separate trousers	60.6	61.0	57.0	57.7	57.1
2328	Men's and boys' work clothing	85.1	86.3	77.3	78.3	79.8
233	Women's and misses' outerwear	353.3	355.4	322.4	320.7	323.0
2331	Women's and misses' blouses and waists	56.0	55.7	52.2	52.7	53.4
2335	Women's and misses' dresses	120.7	122.0	115.2	110.5	110.1
2337	Women's and misses' suits and coats	51.1	52.8	38.4	43.0	46.4
2339	Women's and misses' outerwear, nec	125.5	124.9	116.6	114.5	113.1
234	Women's and children's undergarments	78.1	79.0	75.8	74.3	73.9
2341	Women's and children's underwear	63.1	63.7	62.0	61.5	61.3
2342	Brassieres and allied garments	15.0	15.3	13.8	12.8	12.6
236	Children's outerwear	54.8	56.0	51.7	53.0	53.7
2361	Children's dresses and blouses	23.6	24.2	22.4	23.1	23.4
238	Misc. apparel and accessories	43.6	44.6	40.6	39.9	41.5
239	Misc. fabricated textile products	112.3	114.0	103.7	104.2	105.3
2391	Curtains and draperies	21.0	21.3	18.4	18.8	19.3
2392	House furnishings, nec	30.1	30.5	29.8	29.5	29.9
2396	Automotive and apparel trimmings	16.8	17.0	13.0	13.7	14.1
26	PAPER AND ALLIED PRODUCTS	160.9	162.4	154.0	154.0	153.5
261, 2,8	Paper and pulp mills	27.8	28.7	26.8	26.8	27.6
262	Paper mills, except building paper	24.9	25.7	24.2	24.1	24.9
263	Paperboard mills	5.9	6.1	5.6	5.6	5.6
264	Misc. converted paper products	78.4	78.8	76.5	76.3	75.2
265	Paperboard containers and boxes	48.8	48.8	45.1	45.3	45.1
27	PRINTING AND PUBLISHING	503.6	505.0	518.3	517.6	516.2
271	Newspapers	159.2	161.0	164.6	165.2	166.1
272	Periodicals	55.6	56.1	59.3	59.0	59.2
273	Books	54.8	53.9	54.8	54.3	52.7
274	Miscellaneous publishing	26.8	26.8	27.5	27.2	27.6
275	Commercial printing	132.4	132.0	135.0	134.9	133.2
2751	Commercial printing, letterpress	52.3	52.5	51.9	51.7	51.4
2752	Commercial printing, lithographic	73.7	73.1	76.3	76.6	75.6
276	Manifold business forms	15.7	15.9	15.7	15.7	15.8
278	Blankbooks and bookbinding	33.3	33.2	38.0	33.8	33.9
279	Printing trade services	11.3	11.4	12.6	12.7	12.7
28	CHEMICALS AND ALLIED PRODUCTS	283.7	287.7	280.3	280.7	283.1
281	Industrial inorganic chemicals	24.1	24.5	24.1	24.1	24.5
2819	Industrial inorganic chemicals, nec	16.3	16.4	16.1	16.1	16.3
282	Plastics materials and synthetics	42.7	43.3	41.3	41.2	40.9
2821	Plastics materials and resins	11.3	11.5	11.1	11.0	11.1
2824	Organic fibers, noncellulosic	21.9	22.1	21.9	21.8	21.6
283	Drugs	85.5	86.6	85.7	86.2	86.6
2834	Pharmaceutical preparations	71.8	72.7	72.1	72.1	72.3
284	Soap, cleaners, and toilet goods	59.2	60.2	57.3	57.2	59.2
2841	Soap and other detergents	9.9	10.1	9.6	9.5	10.1
2844	Toilet preparations	36.7	37.5	35.7	35.6	36.9
285	Paints and allied products	12.3	12.5	11.5	11.7	11.8
286	Industrial organic chemicals	27.3	27.8	28.2	28.0	23.2
2861,9	Gum, wood, and industrial organic chemicals, nec	22.6	23.1	23.7	23.5	23.7
287	Agricultural chemicals	10.9	11.0	10.9	10.9	10.8
289	Miscellaneous chemical products	21.7	21.8	21.3	21.4	21.1

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	May 1981	June 1981	Apr. 1982	May 1982	June 1982
29	PETROLEUM AND COAL PRODUCTS					
291	Petroleum refining	30.8	31.7	31.6	32.1	32.2
		25.6	26.3	26.7	26.9	27.1
30	RUBBER AND MISC. PLASTICS PRODUCTS					
301	Tires and inner tubes	260.9	266.3	244.1	245.6	247.2
302	Rubber and plastics footwear	10.3	10.5	9.3	9.2	9.3
303.4	Reclaimed rubber, and rubber and plastics hose and belting	13.8	14.0	12.9	12.9	13.1
		6.1	7.5	5.1	5.2	5.1
306	Fabricated rubber products, nec	36.6	37.2	33.5	33.3	33.5
307	Miscellaneous plastics products	194.1	197.1	183.3	185.0	185.2
31	LEATHER AND LEATHER PRODUCTS					
311	Leather tanning and finishing	141.1	143.4	126.9	127.5	129.2
314	Footwear, except rubber	2.9	3.0	2.8	2.8	2.7
314.3	Men's footwear, except athletic	95.9	97.4	85.9	85.9	88.0
314.4	Women's footwear, except athletic	36.2	36.8	32.2	31.1	32.1
316	Luggage	37.1	38.3	32.6	33.7	34.5
317	Handbags and personal leather goods	8.1	8.5	7.3	7.4	7.6
		20.8	20.9	18.1	18.4	18.5
	TRANSPORTATION AND PUBLIC UTILITIES					
		1,332	1,346	1,335	1,347	1,348
41	LOCAL AND INTERURBAN PASSENGER TRANSIT					
411	Local and suburban transportation	73.1	68.6	78.1	85.0	79.1
412	Taxicabs	15.2	15.3	16.7	16.9	15.8
413	Intercity highway transportation	6.7	6.7	6.7	6.8	5.5
415	School buses	4.8	5.0	4.7	4.8	4.9
		43.2	38.3	46.6	52.7	47.2
42	TRUCKING AND WAREHOUSING					
421.3	Trucking and trucking terminals	151.9	154.3	151.7	152.2	153.6
422	Public warehousing	136.6	138.8	135.1	135.7	137.0
		15.3	15.5	16.6	16.5	16.6
44	WATER TRANSPORTATION					
		23.1	24.2	25.0	25.4	26.0
45	TRANSPORTATION BY AIR					
451.2	Air transportation	149.7	151.2	144.4	146.6	144.0
		141.0	142.3	134.9	137.0	134.1
46	PIPE LINES, EXCEPT NATURAL GAS					
		3.1	3.2	3.3	3.3	3.3
47	TRANSPORTATION SERVICES					
		57.6	101.4	112.2	113.6	115.2
48	COMMUNICATION					
481	Telephone communication	645.3	650.8	627.8	628.7	630.2
483	Radio and television broadcasting	552.3	555.9	525.4	524.7	525.0
		66.8	67.8	71.5	73.0	73.5
49	ELECTRIC, GAS, AND SANITARY SERVICES					
491	Electric services	161.1	165.0	168.8	168.6	172.8
492	Gas production and distribution	75.8	76.9	79.8	80.2	81.7
493	Combination utility services	38.0	39.4	39.6	39.8	41.0
495	Sanitary services	36.2	37.3	37.3	36.7	37.9
		6.0	6.3	6.7	6.5	6.6
-	WHOLESALE AND RETAIL TRADE					
		8,903	8,979	9,000	9,106	9,117
50.51	WHOLESALE TRADE					
		1,387	1,394	1,401	1,406	1,407
50	WHOLESALE TRADE-DURABLE GOODS					
501	Motor vehicles and automotive equipment	771	773	780	778	779
502	Furniture and home furnishings	87.5	88.4	90.7	90.8	91.0
503	Lumber and construction materials	44.0	43.6	45.8	45.5	45.5
504	Sporting goods, toys, and hobby goods	36.3	36.6	36.5	36.5	37.0
505	Metals and minerals, except petroleum	24.2	24.2	24.1	23.9	24.5
506	Electrical goods	29.3	29.6	28.2	27.9	27.6
507	Hardware, plumbing, and heating equipment	126.3	127.4	129.3	128.3	128.4
508	Machinery, equipment, and supplies	65.8	65.8	64.7	64.5	64.7
509	Miscellaneous durable goods	308.9	309.5	314.8	314.5	314.8
		48.3	48.2	46.2	46.0	45.1
51	WHOLESALE TRADE-NONDURABLE GOODS					
511	Paper and paper products	616	621	621	628	628
512	Drugs, proprietaries, and sundries	48.7	49.0	50.2	50.4	50.4
513	Apparel, piece goods, and notions	65.4	65.5	67.1	67.1	67.5
514	Groceries and related products	82.5	83.4	83.8	83.3	85.2
516	Chemicals and allied products	155.3	157.9	149.1	156.8	158.1
517	Petroleum and petroleum products	35.4	35.9	37.7	37.6	37.9
518	Beer, wine, and distilled beverages	54.0	54.8	55.3	55.7	56.0
519	Miscellaneous nondurable goods	22.0	22.2	21.9	21.9	22.1
		118.7	118.8	122.8	123.0	121.4

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	May 1981	June 1981	Apr. 1982	May 1982	June 1982
52-59	RETAIL TRADE	7,516	7,585	7,599	7,700	7,710
52	BUILDING MATERIALS AND GARDEN SUPPLIES	166.8	164.2	157.9	160.7	159.2
521	Lumber and other building materials	65.3	66.0	61.9	63.3	64.2
525	Hardware stores	55.7	56.0	54.5	54.9	55.7
53	GENERAL MERCHANDISE STORES	1,400.5	1,413.0	1,456.1	1,467.6	1,476.2
531	Department stores	1,141.0	1,151.7	1,200.8	1,210.0	1,219.5
533	Variety stores	179.5	179.1	170.2	171.3	169.4
539	Misc. general merchandise stores	80.0	82.2	85.1	86.3	87.3
54	FOOD STORES	1,035.8	1,047.4	1,054.5	1,067.1	1,081.0
541	Grocery stores	866.2	876.8	884.7	893.7	905.2
542	Meat markets and freezer provisioners	16.9	17.4	16.8	17.2	15.7
546	Retail bakeries	81.6	81.5	80.9	82.4	83.1
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	304.4	307.0	310.2	312.7	313.0
551.2	New and used car dealers	111.7	112.0	107.8	108.4	109.0
553	Auto and home supply stores	48.1	48.3	49.7	50.4	51.7
554	Gasoline service stations	128.8	130.6	137.5	138.6	141.2
56	APPAREL AND ACCESSORY STORES	663.0	663.7	662.4	664.6	667.2
561	Men's and boys' clothing and furnishings	55.8	56.0	55.3	55.6	56.0
562	Women's ready-to-wear stores	311.3	309.5	304.6	308.8	309.5
565	Family clothing stores	132.4	133.7	132.7	132.2	133.3
566	Shoe stores	84.7	86.8	89.6	88.3	89.2
57	FURNITURE AND HOME FURNISHING STORES	203.1	201.1	203.4	203.7	203.0
571	Furniture and home furnishings stores	135.7	135.5	134.8	135.0	133.8
572	Household appliance stores	21.6	21.8	22.9	22.4	22.6
573	Radio, television, and music stores	45.8	43.8	45.7	46.3	46.6
58	EATING AND DRINKING PLACES	2,692.7	2,742.1	2,678.7	2,741.6	2,730.3
59	MISCELLANEOUS RETAIL	1,049.3	1,046.1	1,075.7	1,082.4	1,074.6
591	Drug stores and proprietary stores	309.4	311.7	314.2	313.0	313.1
592	Liquor stores	35.1	36.2	35.9	36.1	36.3
594	Miscellaneous shopping goods stores	363.8	364.0	379.9	384.3	394.0
596	Nonstore retailers	156.3	157.5	165.0	163.4	162.2
598	Fuel and ice dealers	23.1	22.9	24.4	24.3	24.0
599	Retail stores, nec	140.4	132.3	135.5	140.1	133.9
-	FINANCE, INSURANCE, AND REAL ESTATE	3,147	3,176	3,188	3,196	3,227
60	BANKING	1,152.3	1,162.9	1,166.5	1,168.4	1,179.2
602	Commercial and stock savings banks	1,059.7	1,069.4	1,072.6	1,074.5	1,084.4
61	CREDIT AGENCIES OTHER THAN BANKS	400.7	402.5	406.2	407.0	409.5
612	Savings and loan associations	196.6	196.9	203.4	204.1	205.5
614	Personal credit institutions	132.1	132.7	128.5	128.4	129.4
62	SECURITY, COMMODITY BROKERS, AND SERVICES	107.6	109.6	120.7	121.5	123.2
621	Security brokers and dealers	87.8	89.7	100.4	100.9	102.4
63	INSURANCE CARRIERS	753.8	755.9	746.6	745.5	747.1
631	Life insurance	303.4	305.2	301.0	301.2	302.0
632	Medical service and health insurance	103.3	103.4	101.8	102.0	102.2
633	Fire, marine, and casualty insurance	296.8	297.1	296.3	295.1	295.4
64	INSURANCE AGENTS, BROKERS, AND SERVICE	290.0	293.3	300.1	302.3	305.8
65	REAL ESTATE	367.8	376.7	368.2	370.9	382.3
651	Real estate operators and lessors	146.6	150.8	153.9	154.2	159.1
653	Real estate agents and managers	171.6	175.6	167.9	170.2	175.1
655	Subdividers and developers	35.3	35.8	33.9	34.0	35.5
66	COMBINED REAL ESTATE, INSURANCE, ETC	11.8	11.8	11.8	11.7	11.7
67	HOLDING AND OTHER INVESTMENT OFFICES	63.4	63.4	67.7	68.4	68.4
-	SERVICES	10,943	10,975	11,274	11,289	11,310
70	HOTELS AND OTHER LODGING PLACES	612.5	638.7	593.6	607.6	634.4
701	Hotels, motels, and tourist courts	592.8	612.4	576.6	588.8	608.9

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	May 1981	June 1981	Apr. 1982	May 1982	June 1982
72	PERSONAL SERVICES	623.1	621.7	657.1	634.6	635.2
721	Laundry, cleaning, and garment services	225.1	225.8	220.1	222.5	222.7
723	Beauty shops	251.1	250.3	263.8	263.1	258.1
726	Funeral service and crematories	18.8	19.5	20.4	20.6	20.8
73	BUSINESS SERVICES	1,404.8	1,415.6	1,424.8	1,426.0	1,429.0
731	Advertising	74.1	74.3	77.5	78.3	78.8
732	Credit reporting and collection	54.4	54.2	53.1	53.6	54.2
733	Mailing, reproduction, stenographic	61.9	62.8	66.2	64.7	54.3
734	Services to buildings	195.7	197.5	202.5	204.9	206.6
736	Personnel supply services	366.4	367.0	349.8	345.5	341.9
737	Computer and data processing services	152.6	156.2	170.6	169.6	159.7
75	AUTO REPAIR, SERVICES, AND GARAGES	96.0	96.0	98.1	99.0	99.8
753	Automotive repair shops	43.5	43.7	48.3	48.4	49.0
76	MISCELLANEOUS REPAIR SERVICES	58.2	57.8	59.1	58.7	58.4
78	MOTION PICTURES	85.5	87.7	81.7	81.7	87.6
781	Motion picture production and services	25.4	25.2	25.8	24.7	26.8
783	Motion picture theaters	53.8	56.3	49.7	50.8	54.8
79	AMUSEMENT AND RECREATION SERVICES	313.6	338.4	325.7	345.3	375.3
80	HEALTH SERVICES	4,474.4	4,524.2	4,661.9	4,674.2	4,723.4
801	Offices of physicians	604.9	612.7	636.0	636.3	614.9
802	Offices of dentists	307.0	308.2	324.7	326.1	329.7
806	Nursing and personal care facilities	907.6	916.1	932.2	938.7	948.3
806	Hospitals	2,318.9	2,348.5	2,414.0	2,415.3	2,439.9
81	LEGAL SERVICES	370.1	380.7	390.0	392.5	401.3
82	EDUCATIONAL SERVICES	638.5	576.9	676.6	661.4	584.3
821	Elementary and secondary schools	211.0	200.4	204.7	207.1	194.2
822	Colleges and universities	359.8	309.9	401.6	384.0	321.7
83	SOCIAL SERVICES	864.9	848.8	879.4	885.2	866.5
89	MISCELLANEOUS SERVICES	342.7	347.3	367.6	358.0	362.2
891	Engineering and architectural services	123.9	127.7	127.1	127.5	130.0
893	Accounting, auditing, and bookkeeping	157.6	158.4	178.4	169.2	170.2
..	GOVERNMENT	8,009	7,806	7,877	7,867	7,730
..	FEDERAL GOVERNMENT	881	895	878	880	1,036
..	STATE AND LOCAL GOVERNMENT	7,128	6,911	6,999	6,987	6,744
..	State government	1,685.5	1,597.7	1,677.3	1,644.9	1,552.8
..	Hospitals	325.7	327.0	322.1	320.4	323.4
..	State education	699.2	605.9	702.9	677.0	583.1
..	General administration including executive, legislative, and judicial functions	440.8	442.3	440.2	435.4	434.8
..	Local government	5,442.7	5,313.5	5,321.3	5,342.4	5,191.0
..	Transportation and public utilities	92.8	93.1	96.5	96.6	97.2
..	Hospitals	505.3	510.8	523.5	523.9	528.1
..	Local education	3,647.4	3,478.3	3,557.8	3,574.1	3,374.3
..	General administration including executive, legislative, and judicial functions	974.9	1,006.1	953.7	957.9	995.5

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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^p	Aug. ^p
TOTAL	91,322	91,363	91,224	90,996	90,642	90,460	90,459	90,304	90,083	90,166	89,839	89,662	89,451
GOODS-PRODUCING	25,637	25,583	25,393	25,176	24,908	24,684	24,631	24,450	24,289	24,255	23,994	23,890	23,730
MINING	1,180	1,192	1,195	1,202	1,206	1,201	1,203	1,197	1,182	1,152	1,124	1,107	1,099
CONSTRUCTION	4,146	4,124	4,101	4,071	4,026	3,966	3,974	3,934	3,938	3,988	3,943	3,923	3,907
MANUFACTURING	20,311	20,267	20,097	19,903	19,676	19,517	19,454	19,319	19,169	19,115	18,930	18,844	18,729
DURABLE GOODS	12,228	12,184	12,059	11,901	11,724	11,622	11,575	11,490	11,375	11,332	11,203	11,157	11,027
Lumber and wood products	671	661	643	628	615	607	611	607	615	617	615	618	618
Furniture and fixtures	475	473	469	462	457	452	449	446	443	443	442	442	443
Stone, clay, and glass products	643	638	629	620	610	596	596	590	584	586	580	533	582
Primary metal industries	1,134	1,125	1,104	1,082	1,053	1,038	1,024	1,007	976	945	926	913	891
Fabricated metal products	1,610	1,604	1,577	1,553	1,529	1,515	1,505	1,496	1,481	1,472	1,452	1,447	1,432
Machinery, except electrical	2,532	2,539	2,532	2,511	2,486	2,459	2,446	2,419	2,389	2,377	2,322	2,276	2,247
Electric and electronic equipment	2,116	2,113	2,101	2,077	2,049	2,055	2,048	2,038	2,034	2,034	2,025	2,021	2,008
Transportation equipment	1,901	1,884	1,861	1,830	1,791	1,777	1,778	1,774	1,748	1,755	1,745	1,763	1,715
Instruments and related products	734	734	731	727	725	720	718	716	713	713	708	708	704
Miscellaneous manufacturing ind.	412	413	412	411	409	403	400	397	392	390	387	339	387
NONDURABLE GOODS	8,083	8,083	8,038	8,002	7,952	7,895	7,879	7,829	7,794	7,783	7,727	7,597	7,702
Food and kindred products	1,659	1,658	1,662	1,664	1,661	1,657	1,663	1,658	1,643	1,652	1,637	1,648	1,634
Tobacco manufactures	70	69	69	69	68	69	68	68	67	67	67	55	66
Textile mill products	829	827	814	804	794	780	777	760	773	759	741	741	734
Apparel and other textile products	1,253	1,253	1,243	1,235	1,222	1,201	1,201	1,186	1,165	1,165	1,161	1,129	1,161
Paper and allied products	691	695	685	681	677	674	670	668	664	661	658	659	655
Printing and publishing	1,271	1,274	1,276	1,276	1,276	1,275	1,276	1,278	1,274	1,274	1,269	1,256	1,267
Chemicals and allied products	1,107	1,110	1,107	1,103	1,100	1,095	1,093	1,088	1,082	1,079	1,073	1,059	1,071
Petroleum and coal products	216	216	215	215	214	210	208	207	206	207	205	205	207
Rubber and misc. plastic products	752	746	734	725	716	712	708	703	706	708	704	700	698
Leather and leather products	235	235	233	230	224	222	215	213	214	211	212	205	209
SERVICE-PRODUCING	65,685	65,780	65,831	65,820	65,734	65,776	65,828	65,854	65,794	65,911	65,845	65,792	65,721
TRANSPORTATION AND PUBLIC UTILITIES	5,168	5,181	5,162	5,150	5,128	5,125	5,115	5,100	5,094	5,101	5,078	5,041	5,038
WHOLESALE AND RETAIL TRADE	20,650	20,660	20,654	20,623	20,524	20,630	20,670	20,655	20,584	20,652	20,595	20,613	20,531
WHOLESALE TRADE	5,387	5,383	5,380	5,375	5,357	5,346	5,343	5,336	5,323	5,331	5,307	5,298	5,279
RETAIL TRADE	15,263	15,277	15,274	15,248	15,167	15,284	15,327	15,319	15,261	15,321	15,288	15,315	15,252
FINANCE, INSURANCE, AND REAL ESTATE	5,319	5,328	5,325	5,324	5,331	5,326	5,326	5,336	5,335	5,342	5,352	5,358	5,375
SERVICES	18,654	18,707	18,773	18,815	18,834	18,831	18,867	18,904	18,929	18,963	18,988	19,057	19,077
GOVERNMENT	15,894	15,904	15,917	15,908	15,917	15,864	15,850	15,859	15,852	15,853	15,832	15,713	15,700
FEDERAL	2,769	2,764	2,757	2,749	2,756	2,741	2,737	2,736	2,730	2,728	2,739	2,733	2,721
STATE AND LOCAL	13,125	13,140	13,160	13,159	13,161	13,123	13,113	13,123	13,122	13,125	13,093	12,980	12,979

^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					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
TOTAL	39,039	39,181	39,199	39,187	39,198	39,139	39,098	39,089	39,147	39,150	39,093	39,181	39,195
GOODS-PRODUCING	6,890	6,938	6,927	6,909	6,871	6,814	6,759	6,712	6,692	6,650	6,601	6,593	6,536
MINING	128	131	133	135	137	138	141	140	141	142	143	141	138
CONSTRUCTION	381	383	383	382	381	381	381	384	382	382	384	383	381
MANUFACTURING	6,381	6,424	6,411	6,392	6,353	6,295	6,237	6,188	6,169	6,126	6,074	6,059	6,017
DURABLE GOODS	3,066	3,087	3,087	3,074	3,050	3,008	2,972	2,957	2,942	2,922	2,891	2,931	2,865
Lumber and wood products	104	104	103	100	98	95	94	93	92	91	91	91	91
Furnitures and fixtures	143	145	144	142	142	139	137	136	135	135	133	133	133
Stone, clay, and glass products	127	127	128	126	126	123	122	120	120	119	117	117	115
Primary metal industries	127	126	126	125	122	119	116	113	112	110	107	107	105
Fabricated metal products	342	344	342	340	333	326	320	317	315	313	309	308	307
Machinery, except electrical	512	514	519	520	520	517	511	507	505	503	500	499	493
Electric and electronic equipment	899	904	905	905	898	884	874	880	876	870	867	869	860
Transportation equipment	312	314	314	312	308	304	298	296	295	293	287	286	284
Instruments and related products	308	311	313	312	311	310	309	307	306	304	303	303	301
Miscellaneous manufacturing ind.	192	198	193	192	192	191	191	188	186	184	183	178	176
NONDURABLE GOODS	3,315	3,337	3,324	3,318	3,303	3,287	3,265	3,231	3,227	3,204	3,180	3,178	3,152
Food and kindred products	500	503	497	492	499	501	500	496	499	499	491	495	490
Tobacco manufactures	26	26	26	25	25	25	25	25	24	24	24	24	24
Textile mill products	394	398	394	394	388	383	378	370	368	362	367	352	353
Apparel and other textile products	1,010	1,014	1,012	1,012	1,004	998	988	971	971	958	939	938	935
Paper and allied products	160	162	162	163	160	158	158	157	157	156	155	154	151
Printing and publishing	505	508	510	512	513	513	515	516	518	518	518	519	517
Chemicals and allied products	285	285	284	285	285	285	285	284	284	283	282	281	280
Petroleum and coal products	31	31	31	32	32	32	32	32	33	33	32	32	31
Rubber and misc. plastics products	264	267	267	263	258	254	250	247	245	244	245	247	245
Leather and leather products	140	143	141	140	139	138	134	133	128	127	127	125	126
SERVICE-PRODUCING	32,149	32,243	32,272	32,278	32,327	32,325	32,339	32,377	32,455	32,500	32,492	32,538	32,659
TRANSPORTATION AND PUBLIC UTILITIES	1,339	1,342	1,348	1,355	1,355	1,351	1,358	1,338	1,339	1,339	1,342	1,348	1,341
WHOLESALE AND RETAIL TRADE	8,984	9,021	9,043	9,057	9,066	9,049	9,022	9,084	9,129	9,130	9,118	9,156	9,124
WHOLESALE TRADE	1,393	1,396	1,403	1,406	1,407	1,412	1,408	1,405	1,408	1,409	1,411	1,410	1,406
RETAIL TRADE	7,591	7,625	7,640	7,651	7,659	7,637	7,614	7,679	7,721	7,721	7,707	7,746	7,718
FINANCE, INSURANCE, AND REAL ESTATE	3,159	3,169	3,172	3,182	3,183	3,186	3,189	3,185	3,185	3,190	3,194	3,222	3,211
SERVICES	10,927	10,972	10,989	11,028	11,086	11,113	11,135	11,151	11,192	11,216	11,229	11,255	11,265
GOVERNMENT	7,740	7,739	7,720	7,656	7,637	7,626	7,635	7,619	7,610	7,625	7,609	7,627	7,718
FEDERAL	875	878	879	880	876	874	881	877	875	876	873	876	1,014
STATE AND LOCAL	6,865	6,861	6,841	6,776	6,761	6,752	6,754	6,742	6,735	6,749	6,736	6,751	6,704

ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

B-6. Production or nonsupervisory workers' on private 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 ^P	Aug. P
TOTAL PRIVATE	61,168	61,180	61,017	60,775	60,401	60,248	60,282	60,132	59,923	60,025	59,759	59,713	59,491
GOODS-PRODUCING	18,224	18,164	17,972	17,754	17,478	17,251	17,225	17,073	16,922	16,917	16,686	16,609	16,497
MINING	869	876	877	882	883	875	876	871	863	835	805	789	788
CONSTRUCTION	3,219	3,201	3,180	3,155	3,107	3,035	3,059	3,023	3,017	3,074	3,029	3,022	3,001
MANUFACTURING	14,136	14,087	13,915	13,717	13,488	13,341	13,290	13,179	13,042	13,008	12,852	12,798	12,708
DURABLE GOODS	8,389	8,345	8,218	8,061	7,885	7,793	7,759	7,685	7,576	7,553	7,443	7,420	7,308
Lumber and wood products	558	549	531	516	503	497	502	497	507	507	506	510	508
Furniture and fixtures	383	381	376	369	364	359	356	353	350	350	349	350	351
Stone, clay, and glass products	496	492	484	475	465	452	452	446	441	444	438	440	443
Primary metal industries	871	865	843	821	795	780	770	756	727	702	686	675	655
Fabricated metal products	1,188	1,182	1,156	1,133	1,110	1,096	1,089	1,081	1,069	1,063	1,046	1,045	1,032
Machinery, except electrical	1,607	1,606	1,598	1,576	1,552	1,526	1,514	1,490	1,460	1,454	1,408	1,370	1,344
Electric and electronic equipment	1,331	1,327	1,314	1,285	1,257	1,266	1,258	1,248	1,241	1,240	1,233	1,224	1,221
Transportation equipment	1,219	1,206	1,184	1,159	1,115	1,102	1,108	1,109	1,086	1,098	1,089	1,116	1,069
Instruments and related products	431	431	428	424	423	420	418	415	411	412	407	407	403
Miscellaneous manufacturing ind.	305	306	304	303	301	295	292	290	284	283	281	283	283
NONDURABLE GOODS	5,747	5,742	5,697	5,656	5,603	5,548	5,531	5,494	5,466	5,455	5,409	5,378	5,399
Food and kindred products	1,139	1,137	1,142	1,144	1,140	1,135	1,142	1,138	1,125	1,133	1,121	1,133	1,121
Tobacco manufactures	55	54	54	54	53	54	53	53	52	52	52	51	57
Textile mill products	718	717	704	693	683	670	667	651	662	650	633	634	629
Apparel and other textile products	1,066	1,066	1,056	1,049	1,036	1,018	1,018	1,006	987	985	982	951	982
Paper and allied products	520	525	515	511	506	504	501	499	496	493	489	490	489
Printing and publishing	699	701	702	700	700	699	699	701	698	699	696	694	692
Chemicals and allied products	630	629	625	621	616	612	609	609	602	600	595	592	597
Petroleum and coal products	134	134	133	132	131	125	124	124	123	123	122	122	124
Rubber and misc. plastics products	586	580	568	557	548	544	538	534	541	543	542	541	539
Leather and leather products	200	199	198	195	190	187	180	179	180	177	177	170	174
SERVICE-PRODUCING	42,944	43,016	43,045	43,021	42,923	42,997	43,057	43,059	43,001	43,108	43,073	43,104	42,994
TRANSPORTATION AND PUBLIC UTILITIES	4,285	4,295	4,275	4,261	4,241	4,241	4,232	4,217	4,209	4,212	4,194	4,150	4,155
WHOLESALE AND RETAIL TRADE	18,049	18,059	18,053	18,016	17,920	18,011	18,061	18,051	17,996	18,065	18,014	18,038	17,924
WHOLESALE TRADE	4,381	4,376	4,373	4,367	4,348	4,332	4,327	4,317	4,301	4,309	4,287	4,290	4,263
RETAIL TRADE	13,668	13,683	13,680	13,649	13,572	13,679	13,734	13,734	13,695	13,756	13,727	13,758	13,661
FINANCE, INSURANCE, AND REAL ESTATE	4,018	4,023	4,019	4,013	4,014	4,007	4,003	4,004	3,999	3,998	4,012	4,010	4,015
SERVICES	16,592	16,639	16,698	16,731	16,748	16,738	16,761	16,787	16,797	16,833	16,853	16,896	16,908

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	73.4
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	39.3	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	50.9
December.....	54.6	58.9	51.0	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	23.4p
February.....	42.5	31.2	27.4	24.5p
March.....	35.8	33.6	27.4	
April.....	40.9	37.1	31.2p	
May.....	51.1	35.8	32.8p	
June.....	32.0	38.4p		
July.....	45.2p	34.4p		
August.....	44.6p			
September.....				
October.....				
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		
	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P
1 ALABAMA	1,354.6	1,333.0	1,326.4	16.0	16.5	16.3	67.1	63.8	63.5	364.9	343.3	334.9
2 Birmingham	343.3	337.4	337.0	8.3	8.6	8.4	19.4	18.9	19.0	59.3	54.2	51.7
3 Huntsville	123.4	124.2	123.6	(1)	(1)	(1)	4.1	4.0	4.1	36.8	37.0	36.1
4 Mobile	155.5	150.3	148.0	(1)	(1)	(1)	11.5	9.3	9.5	32.0	29.0	28.1
5 Montgomery	107.5	104.4	104.3	(1)	(1)	(1)	6.1	5.6	5.6	16.5	15.3	15.2
6 Tuscaloosa	44.7	48.9	49.0	2.4	2.7	2.7	2.6	2.0	2.1	8.2	7.7	7.9
7 ALASKA	192.0	194.2	199.4	7.9	8.6	9.0	14.8	16.2	17.5	19.8	13.1	17.5
8 ARIZONA	1,021.4	1,018.2	1,002.5	25.1	15.7	17.3	71.2	61.7	60.1	161.6	153.0	151.7
9 Phoenix	644.4	646.5	636.9	.4	.4	.4	48.2	41.7	40.2	118.1	111.2	110.3
10 Tucson	184.9	188.3	181.9	7.9	4.9	4.2	12.9	11.5	11.4	24.2	25.5	25.2
11 ARKANSAS	736.2	721.9	714.6	6.1	6.2	6.1	36.7	31.3	32.1	214.5	197.2	195.6
12 Fayetteville—Springdale	64.8	63.4	63.3	(1)	(1)	(1)	2.8	2.6	2.7	20.6	18.4	18.4
13 Fort Smith	70.1	64.6	64.2	1.1	1.3	1.3	2.9	2.2	2.3	24.1	20.0	19.7
14 Little Rock—North Little Rock	179.3	178.5	176.7	(1)	(1)	(1)	9.5	9.5	9.5	29.8	27.2	26.5
15 Pine Bluff	30.9	30.4	30.1	(1)	(1)	(1)	1.8	2.0	2.1	6.4	5.6	5.5
16 CALIFORNIA	10,017.3	10,042.9	9,940.4	49.2	48.3	48.7	434.0	379.7	376.9	2,044.1	1,933.2	1,932.8
17 Anaheim—Santa Ana—Garden Grove	861.2	869.7	854.7	2.7	3.0	3.0	50.3	43.6	43.2	224.7	218.4	217.9
18 Bakersfield	138.3	136.5	133.9	14.6	14.2	14.4	7.2	6.2	6.2	10.5	9.8	9.5
19 Fresno	181.3	182.0	179.1	1.0	1.1	1.1	10.4	9.2	9.1	24.3	21.7	22.8
20 Los Angeles—Long Beach	3,629.9	3,613.1	3,565.3	14.5	14.4	14.5	118.1	106.6	105.0	921.5	868.0	857.3
21 Modesto	90.7	87.6	89.9	.1	.1	.1	5.5	5.1	5.1	22.0	18.5	22.0
22 Oxnard—Simi Valley—Ventura	158.1	162.5	159.8	3.0	3.0	3.0	7.3	6.6	6.5	25.0	25.8	25.8
23 Riverside—San Bernardino—Ontario	431.8	437.8	428.2	2.2	1.7	1.6	23.9	21.7	21.9	65.0	60.5	60.2
24 Sacramento	401.9	406.5	399.0	.7	.7	.7	18.1	17.2	17.2	27.9	26.9	27.4
25 Salinas—Seaside—Monterey	90.4	92.5	91.8	.4	.4	.4	3.4	3.4	3.4	8.8	9.9	10.0
26 San Diego	657.9	659.9	643.5	.6	.5	.6	35.6	30.5	29.7	109.2	105.8	105.2
27 San Francisco—Oakland	1,570.5	1,586.5	1,565.9	4.1	4.4	4.5	76.8	73.9	74.4	199.4	192.5	191.7
28 San Jose	689.6	703.3	696.3	.1	.1	.1	25.6	22.5	23.0	249.8	250.8	254.5
29 Santa Barbara—Santa Maria—Lompoc	124.1	124.9	123.0	1.6	1.5	1.4	5.0	4.6	4.5	18.2	18.2	18.5
30 Santa Rosa	93.1	97.2	93.5	.5	.5	.5	6.0	5.0	5.0	15.3	15.8	15.7
31 Stockton	122.1	118.6	118.1	.1	.1	.1	6.0	5.7	5.7	23.8	19.8	22.1
32 Vallejo—Fairfield—Napa	101.9	103.1	101.1	.5	.5	.5	5.3	4.7	4.7	12.0	11.1	11.6
33 COLORADO	1,282.5	1,292.0	1,279.1	43.7	41.7	39.6	75.6	76.3	78.4	186.2	180.4	179.6
34 Denver—Boulder	820.7	831.6	823.2	26.5	28.1	28.0	43.3	46.2	46.3	128.8	126.4	125.9
35 CONNECTICUT	1,432.7	1,429.4	1,406.4	(2)	(2)	(2)	55.1	52.8	54.6	434.0	412.2	400.1
36 Bridgeport	169.2	168.0	166.8	(2)	(2)	(2)	4.7	4.6	4.8	65.2	62.6	62.6
37 Hartford	394.3	398.7	393.0	(2)	(2)	(2)	13.1	12.8	12.9	95.3	90.5	89.2
38 New Britain	61.5	60.8	58.6	(2)	(2)	(2)	2.5	2.5	2.6	28.4	25.8	25.0
39 New Haven—West Haven	186.0	188.5	186.9	(2)	(2)	(2)	6.8	6.7	7.0	41.3	38.8	39.0
40 Stamford	112.8	114.5	113.2	(2)	(2)	(2)	6.1	6.0	6.0	32.0	31.3	31.0
41 Waterbury	87.5	86.2	87.5	(2)	(2)	(2)	3.1	3.2	3.3	31.2	30.5	29.7
42 DELAWARE	264.6	259.2	261.4	(1)	(1)	(1)	14.2	15.4	15.6	72.5	66.7	69.6
43 Wilmington	230.3	225.5	226.7	(1)	(1)	(1)	14.5	15.2	15.7	66.0	59.8	62.2
44 DISTRICT OF COLUMBIA	629.0	608.5	625.6	(1)	(1)	(1)	12.1	12.0	11.9	15.1	14.5	14.5
45 Washington SMSA	1,628.7	1,605.2	1,617.4	(1)	(1)	(1)	80.4	69.4	71.4	59.4	60.9	61.1
46 FLORIDA	3,663.6	3,761.0	3,702.3	11.3	9.0	8.9	284.7	256.6	255.8	459.8	451.4	430.8
47 Daytona Beach	80.3	80.2	77.6				5.2	4.1	4.1	8.7	8.6	8.5
48 Fort Lauderdale—Hollywood	158.5	149.8	143.1	(1)	(1)	(1)	30.6	25.8	25.2	41.1	39.7	39.0
49 Fort Myers—Cape Coral	69.7	71.7	68.9	(1)	(1)	(1)	5.4	8.0	8.0	3.8	4.3	4.3
50 Gainesville	67.3	67.8	67.0	(1)	(1)	(1)	3.5	3.0	3.2	4.5	4.4	4.4
51 Jacksonville	296.3	302.5	296.7	(1)	(1)	(1)	18.4	17.8	17.7	34.7	33.0	32.9
52 Lakeland—Winter Haven	117.6	111.2	105.6	6.2	3.0	3.6	10.2	8.6	8.0	21.4	17.9	17.0
53 Melbourne—Titusville—Cocoa	107.6	104.3	105.0	(1)	(1)	(1)	6.7	5.7	5.6	23.8	24.2	23.9
54 Miami	740.0	725.0	719.5	(1)	(1)	(1)	40.3	34.4	34.2	98.9	96.8	96.4
55 Orlando	302.6	301.5	292.1	(1)	(1)	(1)	22.1	19.5	19.7	38.2	37.2	36.2
56 Pensacola	98.1	100.1	100.2	(1)	(1)	(1)	7.3	6.3	6.3	12.7	12.1	12.1
57 Sarasota	72.9	72.7	71.3	(1)	(1)	(1)	7.7	6.5	6.4	6.3	6.0	5.9
58 Tallahassee	74.8	73.7	71.8	(1)	(1)	(1)	3.8	3.5	3.9	2.8	2.8	2.8
59 Tampa—St. Petersburg	557.0	568.0	561.1	(1)	(1)	(1)	44.0	37.0	36.3	78.1	76.5	75.6
60 West Palm Beach—Boca Raton	213.8	214.7	208.3	(1)	(1)	(1)	20.5	18.1	17.6	28.1	28.2	27.7

See footnotes at end of table.

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	
72.3	71.0	71.1	272.0	271.9	271.7	59.7	59.4	59.6	211.4	213.1	213.6	291.2	294.0	295.7	1
29.8	29.7	29.8	81.4	81.2	81.2	23.2	23.0	22.9	69.3	70.8	70.8	52.6	51.0	53.2	2
2.7	2.6	2.6	21.9	22.5	22.4	3.7	3.6	3.6	19.1	19.6	19.6	35.1	34.9	35.2	3
10.6	10.3	10.4	37.5	35.8	35.9	7.3	7.3	7.3	30.0	30.8	30.8	26.6	27.8	26.0	4
4.6	4.4	4.4	23.4	23.0	23.0	6.3	6.3	6.3	20.7	20.8	20.8	29.9	29.0	29.0	5
1.8	1.7	1.7	10.1	9.6	9.6	1.7	1.7	1.7	6.3	6.5	6.5	16.6	17.0	16.8	6
19.5	19.7	20.3	32.2	33.9	34.7	8.7	9.5	9.7	32.6	34.3	34.5	56.5	58.9	56.2	7
54.4	55.2	55.0	250.3	257.9	255.0	61.5	61.8	61.8	217.0	222.4	221.8	180.3	190.5	179.8	8
33.2	34.2	34.1	167.3	171.7	169.2	47.4	47.7	47.7	140.2	146.2	145.4	89.6	93.4	89.6	9
9.1	9.0	8.9	41.6	43.4	43.3	8.9	8.9	8.9	40.6	42.3	41.9	39.7	42.8	38.1	10
43.8	43.8	43.7	161.0	162.0	161.4	32.4	33.2	33.4	118.2	119.5	119.3	123.5	128.7	123.0	11
4.0	4.2	4.2	16.0	16.5	16.5	2.3	2.3	2.4	9.1	9.3	9.3	10.0	10.1	9.8	12
3.7	3.3	3.4	14.6	14.0	13.9	2.6	2.6	2.6	12.2	12.2	12.2	8.9	9.0	8.8	13
14.0	13.3	13.3	42.2	41.7	42.0	12.9	13.0	13.1	35.9	37.3	37.2	35.0	36.5	35.1	14
4.0	3.8	3.8	6.4	6.2	6.3	1.3	1.4	1.4	5.2	5.4	5.4	5.8	6.0	5.6	15
560.8	551.0	553.2	2,318.4	2,344.6	2,342.7	646.9	657.2	659.2	2,267.0	2,344.3	2,353.1	1,696.9	1,784.6	1,673.8	16
29.8	29.6	29.2	212.5	217.1	217.3	61.7	62.0	61.8	184.8	188.7	189.0	94.7	107.3	93.3	17
8.0	7.7	7.5	35.1	34.7	34.5	5.3	5.3	5.3	25.1	25.5	25.6	32.5	33.1	30.9	18
11.1	10.7	10.8	49.6	48.7	48.8	11.6	11.7	11.7	37.1	37.7	38.1	36.2	41.2	36.7	19
204.6	196.3	199.4	819.6	830.6	829.7	241.4	242.5	240.9	852.5	888.5	881.1	457.7	466.2	437.4	20
3.9	3.7	3.8	21.3	21.5	21.6	3.6	3.6	3.6	17.8	18.2	18.2	16.5	16.9	15.5	21
7.0	7.3	7.1	38.7	40.1	39.9	8.3	8.5	8.5	32.0	32.7	32.5	36.8	38.5	36.5	22
26.3	26.0	25.9	108.2	109.8	109.4	19.8	19.9	19.9	92.5	95.8	94.4	93.9	102.4	94.9	23
22.7	22.3	22.3	95.0	94.0	94.8	22.6	22.5	22.5	78.0	78.5	77.8	136.9	144.4	136.3	24
5.4	5.1	4.9	23.7	24.1	24.1	4.4	4.4	4.4	20.5	20.5	20.6	23.8	24.7	24.0	25
29.9	29.6	29.6	152.0	150.6	149.0	41.1	41.1	41.0	157.1	159.4	160.1	132.4	142.3	128.3	26
133.0	127.9	128.5	361.6	363.8	363.7	150.8	153.0	152.7	369.6	382.1	380.0	275.2	288.9	270.4	27
22.8	22.4	22.2	128.6	132.9	133.1	29.0	28.4	28.3	159.9	164.9	163.7	73.8	81.3	71.4	28
5.5	5.4	5.4	29.7	29.7	29.4	5.9	6.0	6.0	34.3	34.8	34.9	23.9	24.7	22.9	29
5.1	4.9	4.9	23.5	23.8	23.7	6.0	6.0	6.0	20.5	20.6	20.6	16.2	20.6	17.1	30
8.6	8.0	8.2	29.0	27.5	27.7	5.3	5.4	5.4	24.8	25.0	24.9	24.5	27.1	24.0	31
4.9	4.6	4.6	22.7	23.0	23.0	3.5	3.4	3.4	19.5	20.2	20.0	33.5	35.6	33.3	32
82.8	80.8	81.5	313.3	315.2	315.7	80.1	82.2	82.6	269.0	276.5	276.7	231.9	239.0	225.0	33
57.8	56.1	56.5	195.6	196.3	196.1	56.9	58.8	59.1	180.6	184.7	184.8	131.2	135.0	126.5	34
59.6	61.6	59.4	303.6	307.8	306.1	112.0	116.0	117.2	293.3	300.6	302.2	175.1	178.4	166.8	35
6.1	6.1	6.0	34.6	34.8	34.5	7.7	7.7	7.8	35.3	35.1	35.7	15.6	17.1	15.4	36
13.7	14.6	13.7	83.8	85.4	85.0	61.8	64.2	64.5	75.5	77.4	76.9	51.1	53.8	50.8	37
3.2	3.4	3.3	10.2	10.5	10.2	1.9	1.9	1.9	9.9	10.4	10.1	5.4	6.3	5.5	38
15.2	15.9	15.2	40.2	40.8	40.6	11.3	11.6	11.7	48.7	50.4	50.5	22.5	24.3	22.9	39
4.7	4.7	4.7	25.9	26.6	26.4	8.5	8.7	8.6	26.5	26.8	27.0	9.1	10.4	9.5	40
2.9	3.2	3.0	15.8	16.1	16.4	3.8	3.9	3.9	19.8	19.8	20.0	10.9	11.5	11.2	41
11.7	12.0	11.7	58.0	57.6	57.6	13.2	13.1	13.1	50.7	50.5	50.9	44.2	43.8	42.9	42
11.5	11.6	11.3	47.2	47.1	46.4	12.2	12.4	12.3	45.2	44.6	44.9	33.7	34.7	33.8	43
26.9	26.4	26.7	64.0	64.2	64.6	34.7	34.0	34.1	183.6	185.7	185.8	292.6	271.7	268.0	44
73.1	73.7	73.8	309.2	315.8	315.1	93.2	93.2	93.4	448.6	454.4	454.0	564.8	537.8	548.6	45
228.8	231.3	229.6	969.9	1,012.0	1,010.4	274.2	279.0	277.9	855.0	906.8	904.3	579.9	614.9	576.6	46
3.3	3.3	3.3	22.9	23.0	23.2	4.7	4.7	4.8	21.8	21.7	21.9	13.7	14.8	11.8	47
17.3	17.6	17.6	103.4	100.5	99.7	31.6	31.7	31.3	85.5	85.1	85.5	48.8	49.4	44.8	48
4.3	4.4	4.5	20.1	20.0	19.9	6.6	6.7	6.7	16.2	16.3	16.3	8.6	12.0	9.2	49
1.7	1.7	1.7	14.1	13.8	13.8	3.1	3.2	3.2	14.1	13.8	13.8	26.3	27.9	26.9	50
24.6	25.2	25.0	78.0	78.2	78.3	28.2	28.0	28.0	63.8	65.6	65.0	48.6	54.7	49.8	51
5.3	5.1	5.1	29.9	28.1	27.5	6.7	6.9	6.9	23.9	23.8	23.4	14.0	17.8	14.1	52
4.7	4.5	4.6	22.7	21.7	21.8	4.3	4.2	4.2	26.1	25.8	25.7	19.3	18.2	19.2	53
73.8	70.5	70.8	196.6	190.9	190.8	58.4	56.0	56.0	181.7	179.3	178.7	90.3	97.1	92.6	54
15.1	15.7	15.7	82.3	80.2	80.5	20.5	20.5	20.2	83.1	83.7	83.6	41.3	44.7	36.2	55
5.0	4.9	4.8	24.4	24.9	25.4	4.5	4.5	4.6	20.9	21.9	21.8	23.3	25.5	25.2	56
3.3	3.2	3.1	21.3	22.0	21.2	6.0	6.0	5.9	18.6	18.5	18.3	9.7	10.5	10.5	57
3.1	3.0	3.1	15.0	15.4	15.5	3.5	3.5	3.5	13.9	13.9	14.0	32.7	31.6	29.0	58
32.3	32.8	32.8	157.2	158.1	156.1	41.8	42.5	42.7	136.2	137.1	136.5	67.4	84.0	81.1	59
9.4	10.0	10.2	55.9	56.3	55.0	18.1	18.0	17.6	52.0	52.1	50.6	29.8	32.0	29.6	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		
		JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P
1	GEORGIA	2,172.8	2,155.6	2,145.9	7.8	7.9	7.9	103.9	99.8	100.2	520.3	494.0	491.7
2	Albany	44.9	44.6	44.2	(1)	(1)	(1)	2.2	2.1	2.2	12.3	11.8	12.0
3	Atlanta	980.8	993.3	991.8	(1)	(1)	(1)	45.9	45.0	44.7	142.3	140.6	140.0
4	Augusta	121.2	121.2	122.2	(1)	(1)	(1)	5.5	5.2	5.3	35.4	33.9	33.9
5	Columbus	83.0	78.2	78.1	(1)	(1)	(1)	4.9	5.1	4.9	21.6	18.1	18.6
6	Macon	98.4	98.4	97.9	(1)	(1)	(1)	3.6	3.9	3.8	17.5	17.0	16.9
7	Savannah	86.5	88.1	86.4	(1)	(1)	(1)	4.7	4.6	4.7	17.0	16.4	16.2
8	HAWAII	408.9	402.6	404.6	-	-	-	22.7	18.8	18.9	25.9	23.8	24.9
9	Honolulu	336.2	330.2	331.2	-	-	-	18.6	15.1	15.0	19.4	17.7	18.6
10	IDAHO	325.5	317.1	311.1	5.4	3.3	2.9	17.8	16.5	16.8	53.5	49.1	48.4
11	Boise City	77.3	75.8	75.5	(1)	(1)	(1)	5.5	5.0	5.3	8.9	8.9	9.1
12	ILLINOIS	4,794.8	4,640.8	4,625.5	29.2	28.3	28.7	183.4	165.6	170.7	1,140.1	1,032.4	1,014.1
13	Bloomington—Normal	49.4	47.5	46.9	(2)	(2)	(2)	2.0	1.9	1.9	6.9	5.9	5.8
14	Champaign—Urbana—Rantoul	71.3	71.6	72.0	(2)	(2)	(2)	1.8	1.5	1.4	7.7	7.3	7.4
15	Chicago—Gary	(*)	3,418.3	3,417.6	(*)	4.3	4.2	(*)	118.5	121.7	(*)	792.3	782.1
16	Chicago SMSA	3,258.5	3,183.7	3,180.9	3.9	4.2	4.1	106.8	104.8	107.9	774.8	714.0	704.3
17	Davenport—Rock Island—Moline	164.5	154.7	154.9	(2)	(2)	(2)	7.9	7.6	7.7	50.8	42.7	43.5
18	Decatur	56.2	53.7	52.9	(2)	(2)	(2)	2.4	2.4	2.3	20.5	18.3	18.1
19	Kankakee	33.8	33.2	33.0	(2)	(2)	(2)	1.9	1.6	1.7	8.8	8.1	8.0
20	Peoria	148.8	138.1	137.9	(2)	(2)	(2)	7.4	7.0	7.7	48.4	38.3	37.7
21	Rockford	117.7	106.6	105.9	(2)	(2)	(2)	4.0	3.7	3.8	49.8	39.5	39.8
22	Springfield	86.3	87.4	88.2	(2)	(2)	(2)	4.2	3.9	4.3	6.2	6.2	6.2
23	INDIANA	2,109.3	2,027.7	2,012.0	9.8	9.2	9.1	93.2	79.4	86.2	658.7	602.0	592.9
24	Anderson	45.6	43.4	42.8	(1)	(1)	(1)	1.1	1.1	1.1	19.8	17.9	17.6
25	Elkhart	68.6	67.1	66.1	-	-	-	2.3	1.9	2.0	34.9	34.3	33.8
26	Evansville	128.3	126.2	124.6	2.8	2.5	2.4	7.3	6.5	6.7	37.1	34.9	33.7
27	Fort Wayne	173.3	162.7	161.9	(1)	(1)	(1)	8.3	7.4	7.4	54.8	48.4	47.9
28	Gary—Hammond—East Chicago	251.1	234.6	236.7	(1)	(1)	(1)	15.0	13.7	13.8	91.3	78.3	77.8
29	Indianapolis	531.6	519.5	516.4	(1)	(1)	(1)	23.9	21.6	22.6	122.8	113.4	112.0
30	Lafayette—West Lafayette	54.1	52.7	52.9	(1)	(1)	(1)	3.0	2.5	2.6	11.3	10.5	10.5
31	Muncie	46.7	45.0	43.7	(1)	(1)	(1)	1.5	1.2	1.2	12.5	10.7	10.6
32	South Bend	106.0	104.0	100.6	(1)	(1)	(1)	4.4	3.7	3.8	30.6	29.8	27.5
33	Terre Haute	60.6	55.8	55.7	1.4	1.4	1.4	3.6	2.6	2.5	15.4	13.8	13.9
34	IOWA	1,078.4	1,051.7	1,030.7	2.1	2.0	2.0	50.2	43.4	44.7	236.7	208.8	206.6
35	Cedar Rapids	80.7	76.3	74.7	(1)	(1)	(1)	3.6	3.0	3.1	26.0	22.1	22.0
36	Des Moines	174.9	171.6	168.9	(1)	(1)	(1)	6.8	5.4	5.5	23.4	20.3	20.2
37	Dubuque	41.7	38.9	37.6	(1)	(1)	(1)	1.4	1.2	1.2	14.6	11.4	10.7
38	Sioux City	47.5	46.2	45.3	(1)	(1)	(1)	2.2	1.6	1.6	7.9	6.5	6.2
39	Waterloo—Cedar Falls	63.5	59.4	58.9	(1)	(1)	(1)	2.1	2.2	2.2	22.7	19.0	18.8
40	KANSAS	541.3	536.7	513.1	19.6	18.8	18.1	44.7	39.7	39.2	188.9	172.1	166.9
41	Lawrence	26.3	26.5	25.3	(2)	(2)	(2)	1.0	.8	.8	4.8	4.3	4.3
42	Topeka	85.8	84.6	83.1	.2	.1	.2	3.6	3.0	3.0	10.2	9.5	9.2
43	Wichita	208.1	197.7	193.4	3.6	3.8	3.7	10.4	9.2	9.1	64.4	54.1	52.0
44	KENTUCKY	1,165.4	1,159.8	1,127.9	51.7	52.3	52.5	54.4	45.7	45.4	274.6	249.5	246.5
45	Lexington—Fayette	142.5	140.8	139.5	(1)	(1)	(1)	6.8	4.8	4.8	29.4	27.4	26.6
46	Louisville	382.5	371.2	368.8	(1)	(1)	(1)	18.7	17.2	17.1	95.1	85.6	83.2
47	Owensboro	31.4	27.8	27.8	1.2	.9	.9	1.9	1.3	1.3	6.8	5.7	5.7
48	LOUISIANA	1,638.9	1,622.1	1,616.9	99.8	99.5	99.8	143.3	134.4	135.3	222.7	200.7	198.7
49	Alexandria	53.1	53.4	53.4	(1)	(1)	(1)	4.2	4.0	4.0	5.2	5.3	5.3
50	Baton Rouge	205.0	201.9	201.3	1.3	1.3	1.3	25.5	19.4	19.4	26.8	25.3	25.4
51	Lafayette	90.2	96.6	97.6	18.6	19.9	19.8	5.8	5.9	5.0	4.8	5.2	5.3
52	Lake Charles	71.4	64.6	64.9	2.5	2.4	2.3	10.8	5.6	6.2	13.7	11.0	11.0
53	Monroe	51.5	48.7	48.7	.7	.7	.7	3.6	3.0	3.2	8.0	6.9	6.9
54	New Orleans	521.5	513.6	511.4	20.7	22.0	21.9	31.2	30.4	30.4	53.7	48.3	47.7
55	Shreveport	152.0	151.1	146.7	7.7	6.1	5.4	9.5	8.7	8.6	28.0	26.8	26.5
56	MAINE	427.5	421.0	413.6	(1)	(1)	(1)	19.7	17.8	18.7	110.5	108.8	100.9
57	Lewiston—Auburn	33.5	34.1	32.1	(1)	(1)	(1)	1.4	1.3	1.3	10.6	10.9	9.2
58	Portland	93.4	97.1	95.0	(1)	(1)	(1)	4.2	4.2	4.2	17.9	17.6	16.3
59	MARYLAND	1,720.8	1,697.2	1,688.4	(1)	(1)	(1)	100.2	83.6	85.5	230.5	215.8	209.7
60	Baltimore SMSA	958.8	950.3	941.9	(1)	(1)	(1)	47.6	37.9	38.2	152.5	141.4	137.7
61	Baltimore City	451.9	439.7	437.7	(1)	(1)	(1)	17.6	14.4	14.5	62.0	58.6	56.4

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	
139.9	142.4	142.9	502.2	496.5	494.8	114.4	116.2	116.6	361.6	366.6	367.5	422.8	432.1	424.2	1
2.3	2.2	2.2	9.2	9.5	9.4	2.0	2.1	2.1	6.4	6.2	6.0	10.4	10.7	10.3	2
88.2	89.7	90.7	269.3	273.4	273.1	67.7	68.6	69.0	209.7	218.1	218.4	157.7	158.0	156.0	3
4.3	4.4	4.5	22.2	23.1	23.4	4.5	4.6	4.7	18.1	18.3	18.4	31.3	31.6	32.0	4
3.3	3.2	3.2	15.9	15.6	15.7	5.4	5.5	5.5	11.7	11.6	11.3	20.2	19.0	18.8	5
4.4	4.5	4.4	20.3	20.2	20.6	6.2	6.2	6.1	17.3	16.9	16.9	29.1	29.7	29.1	6
8.4	7.8	7.9	21.6	21.9	21.7	4.1	4.1	4.2	15.8	16.4	16.2	14.9	16.9	15.4	7
31.6	30.6	30.2	106.0	105.3	106.2	32.5	32.1	32.2	100.7	101.9	101.6	89.5	90.1	90.6	8
26.5	25.5	25.2	87.7	87.1	87.8	27.8	27.7	27.8	80.9	80.6	80.4	75.3	76.5	76.4	9
19.8	19.6	19.7	79.0	78.9	78.7	23.2	23.3	23.0	60.7	58.2	58.3	66.1	68.2	63.3	10
5.1	4.9	4.9	19.6	19.2	19.2	8.2	7.7	7.7	14.3	14.1	14.1	15.7	15.7	15.1	11
283.5	273.2	271.1	1,089.2	1,079.6	1,071.6	322.6	320.6	322.3	969.6	979.9	977.0	777.2	761.2	770.0	12
3.1	3.1	3.1	12.2	11.8	11.8	7.6	7.9	7.8	8.3	8.5	8.5	9.3	8.4	8.0	13
2.6	2.6	2.5	19.1	19.0	19.0	2.5	2.4	2.4	11.7	12.0	12.0	25.9	26.8	27.3	14
(*)	205.7	203.6	(*)	806.2	800.5	(*)	253.0	254.1	(*)	750.0	750.1	(*)	488.3	501.3	15
197.7	191.9	189.7	759.5	755.1	749.3	248.0	244.0	245.1	706.4	712.4	712.3	461.4	457.3	468.2	16
7.0	6.8	6.7	40.8	39.6	39.3	7.2	7.2	7.2	24.3	24.5	24.1	26.5	26.3	26.4	17
5.4	5.1	5.1	11.4	11.5	11.3	2.7	2.7	2.7	8.8	8.6	8.7	5.0	5.1	4.7	18
1.4	1.4	1.4	6.9	6.8	6.9	1.1	1.1	1.1	6.4	6.5	6.3	7.3	7.7	7.6	19
7.9	7.8	7.8	34.5	34.3	33.8	7.2	7.0	7.0	26.3	26.0	26.2	17.1	17.7	17.7	20
4.5	4.4	4.2	24.8	23.6	23.5	4.2	4.2	4.2	18.6	18.9	18.7	11.8	12.3	11.7	21
4.7	4.6	4.6	19.0	18.7	18.8	6.8	6.7	6.7	17.7	18.3	18.5	27.7	29.0	29.1	22
104.0	99.4	100.2	466.9	463.8	460.1	102.6	100.6	100.8	342.3	348.3	346.5	331.6	325.0	316.2	23
1.3	1.2	1.2	9.3	9.0	9.0	1.6	1.6	1.6	7.1	7.2	7.2	5.4	5.4	5.1	24
2.2	2.1	2.0	13.1	12.8	12.8	2.2	2.1	2.1	9.0	8.9	8.9	4.9	4.9	4.5	25
7.1	7.1	7.1	30.7	31.6	31.4	4.6	4.7	4.7	25.9	25.7	25.9	12.8	13.2	12.7	26
10.9	10.4	10.5	42.2	40.8	40.8	10.7	10.5	10.5	29.0	28.8	28.7	17.4	16.4	16.1	27
14.9	13.8	13.9	51.7	51.1	51.2	9.2	9.0	9.0	37.0	37.7	37.9	32.0	31.0	33.1	28
31.3	30.0	30.1	132.7	131.0	130.9	39.2	38.6	38.5	97.8	99.4	99.2	83.9	85.5	83.1	29
1.4	1.4	1.4	10.7	11.0	10.8	2.6	2.5	2.5	9.3	9.5	9.4	15.8	15.3	15.7	30
2.0	2.0	2.0	12.3	12.1	12.1	1.5	1.4	1.4	8.4	8.4	8.4	8.5	9.2	8.0	31
4.6	4.4	4.4	25.6	24.8	24.6	5.3	5.2	5.2	22.9	23.9	22.9	12.6	12.2	12.2	32
3.4	3.2	3.2	15.2	13.6	13.5	2.1	1.9	1.9	9.1	8.9	8.9	10.4	10.4	10.4	33
54.7	51.4	51.1	275.0	267.1	266.9	60.0	60.0	60.2	204.2	206.5	204.8	195.5	212.4	194.5	34
3.8	3.7	3.7	19.0	17.9	17.8	4.4	4.2	4.2	15.6	15.9	15.5	8.4	9.4	8.3	35
11.1	11.1	11.1	45.5	44.6	44.3	22.4	23.0	23.1	39.4	39.6	39.1	26.4	27.7	25.6	36
1.6	1.6	1.4	9.3	8.8	8.8	1.3	1.3	1.3	10.2	10.9	10.8	3.2	3.7	3.3	37
3.9	3.8	3.8	12.9	12.9	12.8	2.9	2.7	2.7	12.1	12.6	12.5	5.5	6.1	5.6	38
2.4	2.3	2.3	13.6	13.3	13.3	2.1	2.0	2.0	11.0	10.9	10.9	9.5	9.7	9.5	39
63.8	62.5	62.4	227.5	226.3	226.3	48.4	48.4	48.4	174.9	180.7	179.8	173.5	188.2	172.0	40
1.5	1.4	1.4	5.3	5.4	5.3	.8	.9	.9	4.0	4.0	4.0	8.9	9.7	8.6	41
8.4	8.1	8.1	18.6	18.4	18.2	6.1	5.9	5.9	17.7	17.7	17.6	21.0	21.9	20.9	42
10.4	10.5	10.8	47.3	45.5	45.3	9.8	9.8	9.9	40.2	40.8	40.7	22.0	24.0	21.9	43
67.6	66.1	65.6	258.0	251.4	248.6	52.4	51.6	51.8	212.7	216.6	212.9	194.0	226.6	204.6	44
7.6	7.5	7.5	31.4	32.1	31.8	7.1	6.7	6.7	28.5	30.1	30.1	31.7	32.2	32.0	45
23.4	22.7	22.5	86.7	87.4	86.8	24.6	24.0	24.2	76.5	79.0	78.4	57.4	55.3	56.6	46
2.3	2.3	2.3	7.1	6.2	6.3	1.3	1.3	1.3	6.2	5.5	5.5	4.6	4.6	4.5	47
134.0	132.0	132.3	371.6	369.9	369.4	74.9	76.5	76.7	290.3	296.7	296.5	302.3	312.3	308.2	48
2.4	2.4	2.4	11.5	11.9	11.9	3.0	3.0	3.0	11.0	11.2	11.2	15.8	15.6	15.6	49
10.9	11.0	10.8	46.3	47.5	47.1	12.3	12.5	12.7	35.6	37.3	37.2	46.3	47.6	47.4	50
6.9	7.6	7.8	23.4	25.2	25.3	3.1	3.5	3.5	18.1	18.8	19.4	9.5	10.5	10.5	51
4.3	4.9	5.0	15.1	15.5	15.3	2.9	3.0	3.0	10.7	11.2	11.1	11.4	11.2	11.0	52
2.7	2.6	2.6	13.2	12.6	12.4	4.0	3.9	3.9	9.0	8.9	8.9	10.3	10.1	10.1	53
56.4	55.3	55.0	131.0	129.2	128.6	31.5	31.2	31.1	115.4	113.2	112.5	81.6	84.0	84.2	54
9.6	9.3	9.3	36.1	34.7	34.2	7.3	7.1	7.0	29.9	31.3	31.3	23.9	27.1	24.4	55
19.4	19.2	19.0	94.6	92.2	92.8	17.5	18.2	18.1	87.7	82.6	86.5	78.1	82.2	77.6	56
1.2	1.2	1.2	8.0	8.3	8.2	1.7	1.8	1.7	7.6	7.7	7.7	3.0	2.9	2.8	57
5.9	6.1	6.1	25.7	26.6	26.5	7.6	8.3	8.3	21.1	22.4	22.4	11.0	11.9	11.2	58
85.5	85.4	82.8	407.0	413.6	411.0	94.9	95.9	96.3	380.5	388.0	387.6	422.2	414.9	414.9	59
57.5	56.4	54.6	222.0	230.4	228.6	58.4	59.4	59.5	197.6	205.0	200.5	223.2	219.8	222.8	60
39.4	39.4	38.2	97.2	97.6	96.6	39.0	39.6	39.7	104.7	107.5	105.5	92.0	82.6	86.8	61

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and areas	Total			Mining			Construction			Manufacturing		
	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P
MASSACHUSETTS	2,631.4	2,642.6	2,596.1	(1)	(1)	(1)	79.4	85.0	86.3	654.9	640.2	617.2
1 Boston	1,451.1	1,480.8	1,453.2	(1)	(1)	(1)	41.4	45.2	45.8	290.0	288.5	284.3
3 Brockton	56.4	57.3	55.3	(1)	(1)	(1)	1.6	1.5	1.6	12.0	12.3	11.5
4 Fall River	51.8	53.1	48.6	(1)	(1)	(1)	1.4	1.3	1.3	18.5	19.4	15.4
6 Lawrence—Haverhill	113.9	113.7	110.5	(1)	(1)	(1)	3.1	2.9	3.0	45.1	43.5	41.6
8 Lowell	76.8	80.0	78.0	(1)	(1)	(1)	3.0	3.0	3.0	28.8	29.9	29.8
7 New Bedford	63.0	63.2	62.2	(1)	(1)	(1)	1.7	1.6	1.6	24.6	25.0	24.1
8 Springfield—Chicopee—Holyoke	230.7	228.6	224.6	(1)	(1)	(1)	6.2	6.2	6.3	63.1	60.0	58.0
9 Worcester	162.4	163.3	159.0	(1)	(1)	(1)	5.5	5.1	5.3	47.3	44.0	42.6
MICHIGAN	3,366.2	3,230.7	3,195.6	12.3	9.0	9.3	110.9	79.2	94.7	981.6	899.3	875.7
11 Ann Arbor	130.8	130.1	129.0	(1)	(1)	(1)	2.3	1.7	1.8	38.3	36.4	36.3
12 Battle Creek	62.3	60.5	59.2	(1)	(1)	(1)	1.6	1.6	1.7	19.9	18.4	16.4
13 Bay City	34.3	34.1	34.2	(1)	(1)	(1)	1.1	.8	1.0	9.0	8.4	8.5
14 Benton Harbor	60.4	57.8	57.1	(1)	(1)	(1)	2.0	1.7	1.7	22.0	19.6	19.9
15 Detroit	1,628.8	1,555.9	1,542.9	1.1	1.0	1.0	48.3	32.0	44.3	471.2	425.6	412.6
16 Flint	186.9	180.3	178.1	(1)	(1)	(1)	6.5	4.2	4.3	70.7	64.6	63.7
17 Grand Rapids	266.7	267.0	262.6	(1)	(1)	(1)	11.9	10.8	11.0	89.9	87.6	85.4
18 Jackson	50.3	48.7	46.7	(1)	(1)	(1)	1.3	1.0	1.0	13.8	13.2	12.4
19 Kalamazoo—Portage	108.0	106.7	105.5	(1)	(1)	(1)	4.7	4.0	4.0	32.6	31.2	30.5
20 Lansing—East Lansing	190.2	189.0	178.1	(1)	(1)	(1)	5.9	3.9	3.4	41.5	37.5	36.7
21 Muskegon—Norton Shores—Muskeg. Hts.	60.5	58.3	58.1	(1)	(1)	(1)	2.2	2.0	2.0	20.1	19.3	18.7
22 Saginaw	83.8	81.5	80.4	(1)	(1)	(1)	2.4	2.2	2.4	29.5	26.4	25.4
MINNESOTA	1,758.8	1,736.4	1,703.6	16.8	10.3	7.3	74.1	69.6	70.9	366.5	347.7	348.0
24 Duluth—Superior	59.4	55.6	55.0	(1)	(1)	(1)	1.7	1.7	1.7	7.3	5.5	5.5
25 Minneapolis—St. Paul	1,082.4	1,075.4	1,058.6	(1)	(1)	(1)	41.0	37.1	38.0	242.9	234.2	233.3
26 Rochester	52.1	51.3	51.7	(2)	(2)	(2)	1.9	2.4	2.4	10.9	10.0	10.4
27 St. Cloud	52.9	53.2	51.6	(1)	(1)	(1)	3.6	3.3	3.3	12.2	11.6	11.4
MISSISSIPPI	818.9	793.5	789.6	13.0	12.9	12.8	44.1	39.2	39.5	223.0	210.4	206.5
29 Jackson	146.2	144.6	142.9	2.1	2.1	2.1	6.8	5.6	5.7	18.8	17.5	16.9
MISSOURI	1,972.9	1,970.6	1,953.9	6.8	7.3	7.3	95.2	93.5	96.8	424.5	409.9	407.3
31 Kansas City	623.0	602.8	599.0	.5	.4	.4	24.0	20.6	21.4	116.1	109.8	111.6
32 St. Joseph	35.4	34.8	34.8	(2)	(2)	(2)	2.0	1.5	1.7	8.5	8.3	8.2
33 St. Louis	994.1	983.9	976.9	3.5	2.7	2.8	47.4	44.9	46.4	229.7	220.9	219.6
34 Springfield	85.9	85.4	83.9	(2)	(2)	(2)	3.6	3.7	3.7	18.3	17.8	16.5
MONTANA	288.7	289.2	281.8	12.1	10.3	10.0	15.7	14.6	14.7	24.5	21.7	21.9
36 Billings	48.6	49.1	48.2	(1)	(1)	(1)	2.4	2.6	2.5	4.2	4.0	4.0
37 Great Falls	29.2	30.9	30.4	(1)	(1)	(1)	1.6	1.9	1.9	1.4	1.3	1.3
NEBRASKA	624.3	617.2	605.7	1.8	1.5	1.6	28.9	24.8	25.8	95.0	84.8	83.5
38 Lincoln	57.3	98.1	94.6	(2)	(2)	(2)	3.6	2.9	3.1	13.2	12.1	12.2
40 Omaha	265.2	261.2	256.7	(2)	(2)	(2)	10.8	9.4	9.9	36.0	33.4	33.0
NEVADA	418.3	418.3	417.4	8.1	7.4	7.2	26.6	23.6	23.7	20.9	20.3	20.1
42 Las Vegas	229.6	230.7	229.7	.6	.5	.5	15.5	13.9	14.0	7.6	7.3	7.2
43 Reno	117.1	117.3	117.5	.8	.8	.8	6.3	5.9	5.9	8.6	8.3	8.3
NEW HAMPSHIRE	401.8	400.4	397.5	(2)	(2)	(2)	22.5	24.2	24.8	115.5	113.3	109.3
45 Manchester	74.4	76.2	74.0	(2)	(2)	(2)	3.4	3.1	3.1	16.8	17.2	16.5
46 Nashua	67.2	68.8	67.8	(2)	(2)	(2)	2.9	2.8	2.9	31.2	30.6	30.3
NEW JERSEY	3,130.8	3,112.4	3,100.0	2.5	2.4	2.4	119.5	115.5	118.7	770.2	732.5	716.4
48 Atlantic City	106.1	106.3	108.7	-	-	-	5.8	5.8	5.9	8.0	7.2	6.9
49 Camden	345.3	346.8	344.8	.1	.1	.1	13.9	13.8	13.7	70.8	67.1	66.1
50 Hackensack	399.4	394.3	390.0	(1)	(1)	(1)	16.4	15.0	15.5	109.1	105.0	103.9
51 Jersey City	223.9	221.7	220.7	-	-	-	5.2	5.9	5.9	66.9	64.3	62.1
52 Long Branch—Asbury Park	175.1	175.4	176.4	(1)	(1)	(1)	7.7	6.7	7.0	25.6	24.5	24.3
53 New Bruns.—Perth Amboy—Sayreville	292.9	288.2	287.4	(1)	(1)	(1)	11.8	11.1	11.3	92.1	85.3	84.8
54 Newark	950.4	945.2	938.7	.9	.9	.8	34.5	32.6	33.4	245.0	233.8	225.7
55 Paterson—Clifton—Passaic	191.1	188.0	186.1	(1)	(1)	(1)	7.2	6.3	6.5	66.3	65.2	63.7
56 Trenton	162.9	159.2	156.9	(1)	(1)	(1)	3.6	3.9	3.9	34.2	29.6	29.2
57 Vineland—Millville—Bridgeton	53.6	50.8	50.3	(1)	(1)	(1)	2.0	1.8	1.8	17.3	15.2	14.9
NEW MEXICO	475.9	474.5	471.8	31.7	27.6	27.3	34.2	32.2	32.3	34.4	33.0	32.6
59 Albuquerque	188.7	189.7	188.7	(1)	(1)	(1)	12.6	11.8	12.1	18.1	16.9	16.7
60 Las Cruces	28.6	30.1	29.6	-	-	-	1.8	1.7	1.7	2.5	2.8	2.6

See footnotes at end of table.

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	
118.4	119.8	115.6	575.0	588.5	580.5	168.1	170.5	172.1	663.9	669.7	667.2	372.0	368.9	357.2	1
70.0	70.7	68.6	313.7	327.3	317.4	113.9	117.6	118.1	427.7	446.4	439.5	194.4	185.1	179.5	2
3.3	3.6	3.4	15.3	15.4	15.2	2.3	2.3	2.3	10.2	10.8	10.5	11.7	11.4	10.8	3
1.8	1.8	1.9	11.5	11.6	11.6	2.8	2.9	2.9	9.4	9.4	9.5	6.4	6.7	6.0	4
4.7	5.0	4.7	22.0	22.9	22.3	4.4	4.5	4.5	18.9	19.2	19.5	15.7	15.7	14.9	5
3.0	3.5	3.0	16.1	16.7	16.4	2.2	2.2	2.3	12.4	13.6	13.2	11.3	11.1	10.3	6
2.3	2.3	2.2	12.7	12.8	12.8	2.1	2.0	2.0	10.6	10.9	11.0	9.0	8.6	8.5	7
8.7	9.3	8.7	47.2	48.6	47.6	13.9	13.7	13.8	47.8	49.0	49.1	43.8	41.8	41.1	8
7.2	7.8	7.4	36.0	36.5	35.6	10.5	10.7	11.2	33.4	35.8	34.8	22.5	23.4	22.1	9
145.4	140.0	137.6	714.6	688.0	681.5	155.1	153.6	153.3	662.4	666.1	666.2	583.9	595.4	577.2	10
3.4	3.4	3.4	19.8	19.1	19.1	4.1	3.8	3.8	24.1	24.9	24.8	39.0	40.8	39.8	11
2.3	2.2	2.2	10.7	10.5	10.6	4.3	4.2	4.3	11.7	12.1	12.1	11.8	11.4	12.0	12
1.7	1.7	1.7	8.8	9.0	9.0	1.4	1.3	1.4	7.0	7.6	7.6	5.2	5.2	5.0	13
2.2	2.1	2.1	11.7	11.5	11.5	2.0	1.9	1.9	12.6	12.5	12.3	7.9	8.5	7.7	14
77.3	74.4	72.7	356.5	349.3	345.8	88.8	89.3	88.9	352.1	348.3	348.1	233.5	235.9	229.4	15
5.8	6.4	5.4	39.8	38.6	38.9	6.5	6.4	6.4	29.5	29.6	29.2	28.1	30.6	30.3	16
11.2	11.0	11.0	64.0	65.3	64.6	11.0	10.9	10.9	49.7	50.5	49.9	29.2	30.9	30.0	17
5.1	5.1	4.6	10.4	10.0	9.7	1.6	1.6	1.6	9.6	9.7	9.7	8.4	8.0	7.6	18
4.2	4.3	4.3	22.2	22.1	22.4	4.1	4.0	4.0	22.4	22.3	22.4	17.8	18.8	17.8	19
5.5	5.6	5.6	35.1	35.6	34.8	9.5	9.2	9.1	30.6	31.5	30.7	62.1	65.7	57.8	20
3.2	3.1	3.1	12.2	11.9	11.9	1.4	1.4	1.4	11.0	10.5	10.8	10.4	10.2	10.2	21
4.8	4.8	4.8	17.9	18.4	18.7	4.1	3.9	3.9	14.2	15.5	15.3	10.9	10.3	9.9	22
98.0	92.1	92.2	442.4	435.5	430.4	98.1	98.6	98.6	383.3	390.8	391.3	279.5	291.9	264.8	23
6.5	5.6	5.6	15.1	15.0	15.0	2.3	2.2	2.2	14.3	13.6	13.7	12.1	12.0	11.4	24
62.1	58.2	58.9	269.1	265.9	262.9	73.6	73.2	73.1	244.7	249.6	249.1	149.1	157.4	143.3	25
2.0	1.9	1.9	10.0	10.1	10.1	1.5	1.5	1.5	19.9	20.2	20.6	5.9	5.2	4.7	26
3.4	3.2	3.1	13.5	13.3	13.3	1.9	1.9	1.9	9.9	10.2	9.8	8.3	9.8	8.6	27
40.8	40.4	40.4	164.6	162.8	163.1	33.3	33.1	33.1	119.7	118.6	120.6	180.4	176.1	173.5	28
10.1	10.1	10.1	34.9	34.7	34.7	11.3	11.1	11.1	29.2	29.5	29.4	32.9	34.0	32.8	29
138.3	134.5	133.8	471.8	467.4	466.0	110.8	110.2	110.3	411.4	420.9	421.0	314.1	326.9	311.4	30
52.6	49.8	48.8	160.3	153.3	152.9	45.0	44.6	44.7	134.4	133.4	133.6	90.1	90.9	85.6	31
2.2	2.2	2.2	8.7	8.4	8.7	1.9	2.0	2.0	6.7	6.5	6.5	5.4	5.9	5.5	32
73.0	70.3	69.7	228.9	226.3	225.7	58.5	57.6	57.5	224.9	227.4	227.0	128.1	133.8	128.2	33
7.1	7.1	7.2	24.3	23.3	23.5	3.6	3.5	3.5	18.7	19.1	19.0	10.3	10.9	10.5	34
23.2	23.0	23.0	74.9	77.1	76.7	13.3	12.7	12.9	57.3	58.1	58.1	67.7	71.7	64.5	35
4.7	4.5	4.5	16.0	16.5	16.4	2.5	2.5	2.5	11.5	11.5	11.5	7.2	7.7	6.7	36
2.0	2.1	2.1	9.7	10.3	10.3	2.1	2.1	2.1	7.0	7.4	7.5	5.4	5.7	5.2	37
47.9	43.7	43.9	163.3	161.6	161.1	41.6	41.8	41.8	120.2	124.1	123.2	125.6	134.8	124.8	38
7.4	7.1	7.0	22.3	22.1	21.9	7.0	7.0	7.0	16.8	17.0	16.7	26.9	29.8	26.8	39
24.6	23.1	23.1	67.4	66.1	66.1	24.0	24.2	24.2	61.7	61.6	61.5	40.5	43.5	39.0	40
25.3	25.4	25.5	86.2	86.3	86.6	18.6	18.2	18.2	179.2	179.3	181.4	53.4	57.8	54.7	41
14.0	14.0	14.0	49.2	48.7	48.9	10.6	10.5	10.4	107.5	108.6	109.2	24.6	27.2	25.5	42
8.1	8.1	8.1	25.9	26.5	26.5	6.2	5.9	5.9	46.3	45.7	46.7	14.9	16.1	15.3	43
14.2	14.6	14.0	92.6	91.5	92.4	20.9	20.9	21.0	82.6	79.1	83.7	53.5	50.8	52.3	44
4.8	4.8	4.7	19.8	20.3	19.9	6.3	6.4	6.4	15.3	16.0	15.7	8.0	8.4	7.7	45
2.0	2.3	2.1	13.5	14.5	14.3	2.0	2.1	2.1	10.2	10.9	10.8	5.4	5.6	5.3	46
190.7	192.7	189.4	701.6	706.6	704.7	164.6	165.5	166.1	658.5	666.6	675.6	523.2	530.6	526.7	47
4.0	4.0	3.9	22.7	20.4	21.8	5.1	4.8	4.8	44.4	47.8	49.2	16.0	16.3	16.2	48
15.3	15.3	15.3	88.4	89.6	88.9	17.7	17.6	17.8	72.5	75.1	76.2	66.6	68.2	66.7	49
20.4	20.5	20.2	115.6	111.4	111.4	18.0	18.7	18.5	77.7	81.3	81.2	42.2	42.4	39.3	50
23.9	24.0	23.9	44.3	44.7	44.3	8.5	8.7	8.7	31.4	32.8	32.1	43.8	41.3	43.7	51
6.4	7.1	7.1	44.1	45.2	45.8	8.2	8.0	8.1	46.6	46.5	47.5	36.6	37.4	36.6	52
23.5	24.0	23.8	66.7	66.4	65.6	11.9	11.8	11.9	44.1	45.2	46.4	42.7	44.4	43.6	53
73.6	75.7	76.3	179.8	181.3	178.5	66.3	66.8	66.7	203.4	208.3	208.7	147.0	145.8	148.6	54
6.5	6.2	6.1	40.4	39.4	38.5	9.1	9.1	9.1	34.6	35.4	35.1	27.0	26.4	27.1	55
5.2	5.4	5.1	24.1	24.0	23.5	8.5	8.7	8.8	41.3	41.5	40.4	45.9	46.1	46.0	56
3.1	2.9	2.8	8.9	8.7	8.7	2.5	2.5	2.5	8.7	8.8	8.7	11.0	10.9	10.9	57
28.6	28.4	28.2	107.7	110.4	110.7	22.0	22.3	22.5	97.2	97.9	98.6	120.1	122.7	119.6	58
11.7	11.3	11.2	47.9	49.3	49.3	11.1	11.0	11.1	46.1	47.9	47.7	41.2	41.5	40.6	59
1.1	1.1	1.2	5.5	5.7	5.7	1.3	1.2	1.2	4.0	4.0	4.0	12.4	13.6	13.2	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		
		JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P
1	NEW YORK	7,331.2	7,346.7	7,272.2	6.8	6.3	6.4	227.8	219.6	218.3	1,432.1	1,396.2	1,368.9
2	Albany—Schenectady—Troy	337.6	339.0	333.9	(1)	(1)	(1)	10.3	9.7	10.0	56.0	52.7	51.8
3	Binghamton	116.1	119.6	116.8	(1)	(1)	(1)	4.2	3.9	4.0	42.7	43.2	42.8
4	Buffalo	499.1	482.1	473.4	(1)	(1)	(1)	17.7	15.4	15.9	130.4	117.6	114.4
5	Elmira	36.4	34.8	34.3	(1)	(1)	(1)	1.1	1.0	1.1	11.3	9.0	8.8
6	Monroe County	341.9	347.3	343.3	(1)	(1)	(1)	10.5	9.7	9.7	141.2	141.9	141.4
7	Nassau—Suffolk	934.7	946.4	937.7	(1)	(1)	(1)	37.4	35.8	35.8	167.1	167.4	164.6
8	New York—Northeastern New Jersey	6,762.7	6,824.1	(*)	2.9	2.3	(*)	208.3	211.4	(*)	1,304.1	1,284.0	(*)
9	New York and Nassau—Suffolk	4,761.6	4,792.9	4,755.7	1.9	1.8	1.8	142.2	141.1	138.1	735.0	731.5	714.5
10	New York SMSA	3,826.9	3,846.5	3,818.1	1.7	1.5	1.6	104.7	105.3	102.2	567.9	564.1	549.9
11	New York City	3,369.6	3,388.3	3,360.7	1.4	1.3	1.3	84.4	84.8	81.8	475.6	474.1	460.2
12	Poughkeepsie	100.3	102.7	102.9	(1)	(1)	(1)	2.8	2.8	2.8	33.2	34.4	34.6
13	Rochester	418.0	423.9	419.7	(1)	(1)	(1)	12.7	11.7	11.9	161.9	160.8	161.0
14	Rockland County	83.3	83.3	83.7	(1)	(1)	(1)	2.9	3.1	3.0	15.3	15.5	15.4
15	Syracuse	255.9	256.4	252.3	(1)	(1)	(1)	10.0	9.8	10.1	59.5	56.9	55.9
16	Utica—Rome	114.1	114.5	112.5	(1)	(1)	(1)	2.9	2.9	2.7	29.3	28.2	27.1
17	Weetchester County	361.3	362.0	360.9	(1)	(1)	(1)	16.6	16.6	16.6	75.7	73.2	73.1
18	NORTH CAROLINA	2,347.4	2,350.0	2,289.1	4.9	4.9	4.7	118.8	106.7	106.4	818.8	773.8	764.5
19	Asheville	73.3	73.0	71.9	(1)	(1)	(1)	3.3	2.8	2.8	21.8	21.0	20.8
20	Charlotte—Gastonia	336.2	334.8	327.9	(1)	(1)	(1)	18.9	17.6	17.7	94.6	92.3	90.0
21	Greensboro—Winston-Salem—High Pt	385.5	382.3	376.1	(1)	(1)	(1)	17.6	16.1	15.9	150.3	140.4	142.2
22	Raleigh—Durham	268.1	274.4	267.5	(1)	(1)	(1)	14.2	12.9	12.9	45.9	45.2	44.7
23	NORTH DAKOTA	249.6	253.4	251.4	11.5	9.4	9.5	16.5	17.5	18.8	15.7	15.2	15.0
24	Fargo—Moorhead	60.3	61.6	60.0	(2)	(2)	(2)	3.5	3.3	3.5	4.8	4.7	4.6
25	OHIO	4,326.0	4,256.2	4,203.1	32.4	33.1	33.0	166.7	149.0	152.6	1,241.7	1,133.5	1,123.1
26	Akron	257.1	252.1	251.6	(*)	(*)	(*)	8.6	7.3	7.9	75.8	70.8	70.1
27	Canton	158.4	155.9	155.1	(*)	(*)	(*)	5.6	5.3	5.8	56.1	52.1	51.7
28	Cincinnati	590.5	592.5	582.3	(*)	(*)	(*)	23.9	21.9	21.5	158.4	151.7	149.9
29	Cleveland	887.2	870.1	863.0	(*)	(*)	(*)	29.2	27.1	27.6	250.0	232.8	230.2
30	Columbus	504.0	509.2	502.5	(*)	(*)	(*)	19.3	16.6	17.7	93.0	88.5	88.5
31	Dayton	349.4	347.8	343.1	(*)	(*)	(*)	12.7	11.2	11.5	97.9	90.7	90.8
32	Toledo	289.2	288.1	281.1	(*)	(*)	(*)	12.4	10.5	9.7	74.3	69.2	68.3
33	Youngstown—Warren	200.9	191.4	188.2	(*)	(*)	(*)	7.0	6.1	6.2	69.0	57.6	56.8
34	OKLAHOMA	1,186.4	1,218.0	1,202.2	97.5	100.3	98.0	56.0	57.8	58.1	201.2	185.4	181.0
35	Enid	27.3	26.4	26.0	3.0	2.9	2.8	1.6	1.3	1.3	3.2	2.6	2.4
36	Lawton	29.2	30.4	30.2	(1)	(1)	(1)	1.4	1.4	1.4	3.2	3.0	3.1
37	Oklahoma City	419.8	441.1	437.0	27.1	29.9	29.4	22.2	23.0	23.5	56.2	52.6	52.3
38	Tulsa	321.6	326.7	325.1	26.8	28.7	28.7	16.4	16.9	17.4	68.3	63.5	62.3
39	OREGON	1,016.9	985.5	964.8	2.5	2.3	2.3	40.5	32.0	32.1	210.9	189.8	194.4
40	Eugene—Springfield	98.2	96.7	92.4	(1)	(1)	(1)	3.9	2.9	2.9	19.4	16.6	16.6
41	Jackson County	—	—	—	—	—	—	—	—	—	7.9	6.6	6.6
42	Portland	544.0	527.3	519.3	(1)	(1)	(1)	22.4	19.0	19.8	108.8	101.5	101.7
43	Salem	86.8	84.2	(*)	(1)	(1)	(*)	3.5	2.7	(*)	15.8	11.4	(*)
44	PENNSYLVANIA	4,749.7	4,587.6	4,497.2	49.5	45.0	43.2	198.2	167.6	171.9	1,310.6	1,186.5	1,148.9
45	Allentown—Bethlehem—Easton	266.0	257.8	249.1	(1)	(1)	(1)	8.7	8.0	7.7	105.0	96.9	90.8
46	Altoona	51.0	49.7	49.4	(1)	(1)	(1)	2.1	2.0	2.1	13.1	12.2	11.9
47	Delaware Valley	1,587.9	1,550.5	1,536.1	(1)	(1)	(1)	65.5	57.9	57.7	359.1	336.6	333.4
48	Erie	109.7	106.1	105.2	(1)	(1)	(1)	3.3	3.0	3.3	40.6	39.0	38.6
49	Harrisburg	227.6	228.2	225.6	(1)	(1)	(1)	8.3	7.4	7.7	42.6	41.1	40.4
50	Johnstown	82.8	79.1	76.7	8.2	7.1	6.1	2.9	2.1	2.2	16.8	15.0	14.6
51	Lancaster	154.9	153.0	148.8	(1)	(1)	(1)	6.8	6.3	6.6	59.9	56.8	55.0
52	Northeast Pennsylvania	240.8	234.2	227.3	1.2	1.0	1.0	11.5	9.5	10.1	68.6	64.7	57.2
53	Philadelphia SMSA	1,934.5	1,897.5	1,881.4	(1)	(1)	(1)	80.1	71.7	71.3	430.4	403.8	399.5
54	Philadelphia City	779.0	753.7	750.4	(1)	(1)	(1)	20.5	18.8	19.0	129.0	121.6	120.8
55	Pittsburgh	949.9	889.8	878.5	10.1	9.4	9.1	49.0	38.6	41.3	241.1	196.4	190.8
56	Reading	137.6	137.1	132.2	(1)	(1)	(1)	5.4	4.3	4.3	53.0	51.7	48.9
57	Williamsport	46.1	45.9	44.1	(1)	(1)	(1)	1.4	1.3	1.4	15.5	16.0	14.4
58	York	155.8	150.2	149.0	(1)	(1)	(1)	7.0	6.7	7.2	65.2	58.7	59.8
59	RHODE ISLAND	394.0	394.4	384.7	(1)	(1)	(1)	12.7	12.1	12.6	119.0	117.7	109.8
60	Providence—Warwick—Pawtucket	398.0	397.9	386.7	(1)	(1)	(1)	12.9	12.0	12.5	131.1	130.1	121.1
61	SOUTH CAROLINA	1,194.6	1,180.2	1,160.1	(1)	(1)	(1)	74.6	66.3	66.8	388.2	358.1	354.5
62	Charleston—North Charleston	154.9	156.6	155.1	(1)	(1)	(1)	10.1	10.0	10.0	21.2	18.7	18.9
63	Columbia	177.5	176.6	175.0	(1)	(1)	(1)	8.7	8.6	8.6	27.3	25.5	24.1
64	Greenville—Spartanburg	268.2	261.8	259.7	(1)	(1)	(1)	16.8	15.7	15.7	102.6	95.6	95.0

See footnotes at end of table.

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	
427.3	429.6	421.1	1,464.7	1,479.9	1,464.5	664.9	673.1	678.9	1,801.4	1,822.7	1,830.3	1,306.1	1,319.2	1,283.7	1
15.6	15.4	15.3	68.1	68.3	67.6	16.2	16.3	16.4	73.9	75.5	75.6	97.5	101.0	97.2	2
4.7	4.7	4.7	21.2	21.6	21.5	4.2	4.2	4.2	18.4	19.2	19.6	20.6	22.7	19.9	3
26.1	25.7	24.5	110.3	109.1	108.5	22.7	22.6	22.8	105.3	107.2	104.3	86.7	84.6	83.0	4
1.3	1.3	1.3	8.6	8.9	8.7	1.2	1.2	1.2	6.8	7.1	7.0	6.0	6.4	6.3	5
10.4	10.3	10.4	59.5	60.4	59.6	14.7	14.8	15.0	68.7	70.0	70.2	36.9	40.2	37.0	6
39.0	43.8	41.2	242.2	243.7	242.4	53.3	53.6	53.5	223.7	226.0	229.2	172.0	176.1	170.9	7
467.7	468.6	(*)	1,389.7	1,403.6	(*)	647.9	677.2	(*)	1,634.5	1,705.6	(*)	1,107.6	1,071.4	(*)	8
317.6	319.6	313.5	949.6	961.3	949.1	555.6	563.6	568.0	1,270.8	1,301.8	1,303.9	788.9	772.2	766.8	9
278.6	275.8	272.4	707.4	717.6	706.6	502.3	510.0	514.6	1,047.4	1,076.0	1,074.9	617.0	596.2	595.8	10
255.1	252.2	249.1	603.6	612.2	602.1	479.2	486.9	491.5	931.5	963.5	956.1	538.7	516.3	518.5	11
2.9	2.9	2.9	16.6	16.9	16.8	3.0	3.0	3.1	19.3	19.1	19.5	22.5	23.7	23.1	12
12.9	12.7	12.8	77.0	78.5	77.8	16.2	16.4	16.5	80.9	82.3	82.9	56.5	61.5	56.8	13
3.4	3.4	3.5	17.9	18.2	18.2	2.7	2.8	2.8	20.0	18.5	19.5	21.2	21.8	21.3	14
14.4	14.5	14.5	57.1	57.2	57.1	16.6	16.8	16.8	50.8	51.5	50.2	47.4	49.7	47.5	15
3.9	4.0	4.0	22.8	23.0	23.1	5.6	5.7	5.7	21.0	21.4	21.4	28.5	29.4	28.6	16
19.5	19.5	19.2	82.8	84.1	83.2	19.8	19.7	19.8	92.8	94.1	96.1	54.1	54.7	52.9	17
116.3	116.0	115.8	471.9	468.0	468.6	99.5	99.4	99.5	359.2	362.2	366.7	357.9	419.0	362.9	18
3.6	3.6	3.6	16.0	15.9	16.1	2.3	2.4	2.4	15.2	14.7	14.8	11.1	12.6	11.4	19
31.7	31.2	31.3	82.5	79.7	79.4	21.7	21.7	21.8	54.8	54.9	54.7	32.0	37.4	33.0	20
21.2	21.2	21.1	77.1	77.3	76.9	19.1	19.0	19.0	60.0	61.3	61.3	40.2	47.0	39.7	21
13.5	14.2	14.3	52.4	52.4	52.1	16.0	16.0	16.0	58.5	59.8	59.5	67.6	73.9	68.0	22
17.2	16.8	16.7	66.9	67.9	67.6	11.8	12.0	12.0	52.2	54.4	54.5	57.8	60.2	57.3	23
4.0	3.8	3.7	18.7	18.9	18.9	3.9	3.9	4.0	13.8	14.4	14.3	11.6	12.6	11.0	24
220.3	216.2	216.8	949.4	941.7	937.2	207.0	207.7	208.9	864.7	900.1	896.5	644.0	674.7	635.1	25
13.9	13.7	13.6	57.6	58.0	57.8	9.3	9.3	9.3	53.6	54.8	55.0	37.6	37.6	37.1	26
7.0	7.1	7.1	33.4	33.6	33.6	6.4	6.5	6.5	30.3	31.0	30.9	18.2	18.8	18.1	27
33.2	33.0	32.9	139.0	138.4	137.6	32.6	32.3	32.5	126.3	130.9	130.7	76.8	83.9	76.9	28
45.7	44.7	44.8	199.5	197.3	195.6	48.5	48.3	48.4	192.0	198.4	197.3	121.0	120.2	118.0	29
24.3	23.9	23.8	118.8	121.2	120.2	39.6	41.2	41.5	109.4	114.1	113.6	98.7	102.8	96.3	30
13.5	13.3	13.2	72.7	72.5	71.9	13.7	14.1	14.2	73.4	76.8	76.5	65.2	68.9	64.5	31
19.3	19.2	19.2	66.4	66.1	65.3	10.6	10.8	10.7	64.2	66.6	67.0	41.4	45.3	40.3	32
9.3	9.1	9.2	44.4	44.1	43.9	7.3	7.4	7.4	39.6	40.2	40.3	23.6	26.1	23.4	33
70.1	68.7	68.4	279.0	289.7	288.3	59.4	61.6	62.2	205.0	216.0	216.6	218.2	238.5	229.6	34
2.7	2.8	2.8	7.2	7.4	7.3	1.1	1.2	1.2	4.6	4.6	4.6	3.9	3.6	3.6	35
1.4	1.4	1.4	7.4	7.5	7.4	1.2	1.3	1.3	4.6	4.7	4.6	10.0	11.1	11.0	36
24.0	25.1	25.2	104.7	109.2	109.4	26.8	27.7	28.1	74.1	80.0	79.8	84.7	93.6	89.3	37
24.5	24.4	24.4	73.1	74.9	74.7	15.9	16.2	16.4	63.8	66.6	66.5	32.8	35.5	34.7	38
60.0	56.9	56.7	255.3	245.2	246.5	69.5	65.5	66.0	193.6	189.0	186.6	184.6	204.8	180.2	39
5.0	4.6	4.7	25.2	24.4	24.0	5.5	5.2	5.4	19.0	19.8	19.8	20.2	23.2	19.0	40
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41
36.7	35.8	35.4	142.3	138.1	139.0	46.2	44.8	44.4	111.8	107.5	105.8	75.8	80.6	73.2	42
2.8	2.8	(*)	19.3	18.5	(*)	5.6	5.7	(*)	15.1	15.6	(*)	24.7	27.5	(*)	43
253.7	244.5	236.0	985.7	977.3	965.0	244.3	244.7	245.1	1,013.3	1,023.4	1,018.9	694.4	698.6	668.2	44
14.2	13.8	13.9	52.3	51.4	50.8	9.9	9.7	9.7	46.7	47.8	47.9	29.2	30.2	28.3	45
6.3	6.0	5.9	11.0	10.7	10.7	1.6	1.6	1.6	9.1	8.9	9.0	7.8	8.3	8.2	46
81.0	78.3	76.3	327.1	325.1	322.3	112.4	113.9	113.7	404.7	408.7	407.0	238.1	230.0	225.7	47
5.1	4.6	4.6	22.0	21.7	21.4	4.8	4.9	4.9	22.7	22.2	21.9	11.2	10.7	10.5	48
17.0	16.4	16.2	45.0	45.7	45.2	12.8	13.1	13.0	42.1	44.1	43.8	59.8	60.4	59.3	49
4.8	4.5	4.4	15.8	15.3	15.1	4.0	4.1	4.2	15.7	16.2	16.0	14.6	14.8	14.1	50
6.5	6.2	6.2	34.9	34.7	34.2	5.8	6.1	6.1	27.2	28.4	27.9	13.8	14.5	12.8	51
12.6	12.6	12.3	50.1	48.5	47.5	10.1	10.5	10.7	48.3	50.2	51.2	38.4	37.2	37.3	52
95.7	93.6	91.6	415.5	414.8	411.3	130.1	131.5	131.4	476.2	484.0	483.3	306.5	298.1	293.0	53
51.5	48.9	49.2	140.7	139.9	137.7	66.7	65.8	65.8	214.7	216.4	213.0	155.9	142.3	144.9	54
55.5	52.0	50.7	213.6	210.9	209.7	47.7	47.6	47.7	217.0	219.4	218.3	115.9	115.5	110.9	55
6.2	6.7	6.4	27.8	27.1	27.0	6.5	6.5	6.6	23.7	24.3	24.0	15.0	16.5	15.0	56
2.3	2.1	2.0	9.6	9.4	9.5	2.2	2.2	2.2	8.4	8.5	8.6	6.7	6.4	6.0	57
7.6	7.4	7.1	33.0	32.9	32.5	4.1	4.1	4.1	22.1	22.5	22.1	16.8	17.9	16.2	58
12.9	13.8	12.9	81.7	80.8	79.2	21.2	21.3	21.3	88.8	91.2	91.0	57.7	57.5	57.9	59
12.7	13.5	12.5	80.9	79.6	78.0	21.1	21.1	21.2	84.3	86.9	86.5	55.0	54.7	54.9	60
54.0	54.6	54.6	235.8	239.0	239.0	50.9	52.4	52.7	171.5	176.7	176.7	219.6	233.1	215.8	61
9.1	8.8	8.7	33.5	33.9	33.8	7.0	7.2	7.3	25.9	29.5	29.2	48.1	48.5	47.2	62
9.7	9.7	9.8	37.3	37.2	37.2	14.3	14.9	15.0	27.8	27.7	27.5	52.4	53.0	52.8	63
10.1	9.2	9.2	54.3	55.2	55.2	10.2	10.5	10.5	38.5	40.1	39.9	35.7	35.5	34.2	64

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and areas	Total			Mining			Contract Construction			Manufacturing		
	JULY 1981	JUNE 1982	JULY 1982 P	JULY 1981	JUNE 1982	JULY 1982 P	JULY 1981	JUNE 1982	JULY 1982 P	JULY 1981	JUNE 1982	JULY 1982 P
1 SOUTH DAKOTA	238.2	237.8	231.3	3.1	1.6	1.6	12.0	9.9	10.0	26.2	25.1	25.7
2 Sioux Falls	53.4	56.3	55.5	(2)	(2)	(2)	2.7	2.6	2.6	7.3	7.4	8.0
3 TENNESSEE	1,737.7	1,726.9	1,711.9	10.2	11.1	11.2	81.6	84.0	82.6	503.7	481.9	474.4
4 Chattanooga	167.9	167.5	165.2	1.1	1.3	1.4	6.0	5.6	5.8	48.8	47.5	45.8
5 Knoxville	198.0	206.4	204.3	1.6	1.6	1.6	10.4	9.6	9.4	47.7	48.5	48.2
6 Memphis	356.7	350.9	348.4	.2	.2	.2	14.7	13.8	13.6	60.3	55.0	55.0
7 Nashville—Davidson	362.1	348.6	346.6	(1)	(1)	(1)	17.3	16.4	16.2	81.2	77.1	75.6
8 TEXAS	6,166.0	6,287.6	6,257.1	297.7	299.6	298.4	438.9	448.1	446.8	1,111.4	1,070.9	1,050.7
9 Dallas—Fort Worth	1,514.5	1,551.9	1,544.9	30.6	32.8	33.3	83.6	84.2	85.3	329.1	319.1	315.4
10 Houston	1,556.6	1,570.3	1,556.7	102.7	100.9	97.4	149.1	145.0	145.4	264.5	257.0	253.7
11 San Antonio	409.2	412.4	409.4	3.2	3.6	3.6	28.2	27.1	27.5	52.8	50.2	49.4
12 UTAH	556.5	563.5	559.5	21.0	19.5	19.1	29.9	28.2	28.2	90.4	88.6	88.4
13 Salt Lake City—Ogden	392.9	396.9	394.7	8.3	6.8	6.8	19.8	18.0	17.9	61.6	61.1	61.0
14 VERMONT	202.7	200.9	201.3	.5	.6	.6	12.4	10.8	11.6	51.0	49.3	49.2
15 Burlington	59.0	59.0	59.1	-	-	-	-	-	-	16.1	16.0	16.0
16 Springfield	14.7	13.9	13.7	-	-	-	-	-	-	6.1	5.2	5.2
17 VIRGINIA	2,171.9	2,180.9	2,167.5	22.7	23.0	22.5	121.4	108.6	110.0	410.5	397.8	396.4
18 Bristol	26.7	26.8	26.5	(1)	(1)	(1)	1.1	.7	.7	9.6	9.0	8.9
19 Lynchburg	68.0	69.2	68.6	(1)	(1)	(1)	2.9	2.5	2.7	27.3	27.0	26.8
20 Newport News—Hampton	152.8	155.8	155.4	(1)	(1)	(1)	7.0	6.4	6.8	34.5	34.9	35.8
21 Norfolk—Virginia Beach—Portsmouth	292.8	294.2	293.8	(1)	(1)	(1)	17.6	17.1	17.1	30.0	28.6	28.6
22 Northern Virginia ¹³	469.7	478.1	476.6	.4	.4	.4	30.2	26.5	27.3	20.2	21.5	21.7
23 Petersburg—Colonial Hgts.—Hopewell	43.7	45.9	44.7	(1)	(1)	(1)	2.1	1.9	1.9	10.0	10.1	9.9
24 Richmond	326.5	329.9	326.1	.3	.3	.3	18.1	17.5	17.5	56.8	54.4	54.3
25 Roanoke	103.4	102.9	101.7	.2	.2	.1	4.8	4.5	4.5	21.1	19.8	19.9
26 WASHINGTON	1,595.5	1,581.0	1,550.8	3.3	3.1	3.2	94.7	76.1	77.1	306.1	290.6	290.5
27 Seattle—Everett	770.7	762.7	(*)	(1)	(1)	(*)	38.7	33.5	(*)	169.0	162.2	(*)
28 Spokane	123.3	(*)	(*)	(1)	(*)	(*)	6.4	(*)	(*)	16.6	(*)	(*)
29 Tacoma	140.0	(*)	(*)	(1)	(*)	(*)	7.3	(*)	(*)	22.2	(*)	(*)
30 WEST VIRGINIA	642.5	605.3	605.1	67.0	62.1	60.8	31.6	21.9	22.5	112.4	99.8	97.6
31 Charleston	113.0	110.0	110.0	6.8	6.6	6.4	6.3	4.6	4.7	16.7	16.5	16.5
32 Huntington—Ashland	103.8	98.7	98.1	1.2	1.2	1.3	5.3	3.7	3.9	25.0	23.0	22.0
33 Parkersburg—Martetta	59.1	55.5	55.3	1.4	1.4	1.4	3.4	1.5	1.5	16.6	15.4	15.3
34 Wheeling	65.3	62.0	61.7	4.7	4.6	4.6	3.0	2.2	2.2	12.0	9.7	9.2
35 WISCONSIN	1,929.7	1,882.4	1,870.7	2.5	2.0	2.3	64.7	55.1	52.8	559.1	494.1	503.0
36 Appleton—Oshkosh	125.7	121.7	120.5	(1)	(1)	(1)	5.3	4.5	4.6	48.0	43.3	43.8
37 Eau Claire	47.8	47.3	46.9	(1)	(1)	(1)	1.6	1.1	1.1	9.3	9.0	9.0
38 Green Bay	79.0	78.4	77.8	(1)	(1)	(1)	3.5	3.1	3.1	22.9	21.1	21.8
39 Janesville—Beloit	51.7	50.1	49.2	(1)	(1)	(1)	1.4	1.1	1.1	20.7	17.8	17.8
40 Kenosha	42.2	37.8	41.6	(1)	(1)	(1)	1.5	1.6	1.6	16.6	12.1	16.2
41 La Crosse	45.0	45.0	44.2	(1)	(1)	(1)	1.5	1.2	1.2	10.6	10.2	10.2
42 Madison	168.6	168.7	167.3	(1)	(1)	(1)	6.4	5.5	5.5	20.7	19.8	19.5
43 Milwaukee	657.3	638.0	627.4	(1)	(1)	(1)	18.2	15.5	13.1	196.9	172.4	169.9
44 Racine	67.2	62.6	62.0	(1)	(1)	(1)	1.7	1.5	1.7	27.8	23.6	23.4
45 WYOMING	223.2	222.2	214.7	39.2	40.1	39.3	21.0	17.2	17.3	10.3	10.3	10.3
46 Casper	41.0	41.0	38.9	8.2	7.2	7.1	3.6	3.9	4.1	2.0	1.6	1.6
47 Cheyenne	31.7	30.4	28.6	(1)	(1)	(1)	2.1	1.6	1.7	1.5	1.3	1.3
48 PUERTO RICO	(*)	(*)	(*)	.8	.7	.7	33.8	22.8	21.9	(*)	(*)	(*)
49 Caguas	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
50 Mayaguez	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
51 Ponce	(*)	(*)	(*)	(*)	(*)	(*)	2.6	1.6	1.7	(*)	(*)	(*)
52 San Juan	(*)	(*)	(*)	(1)	(1)	(1)	23.7	16.8	15.9	(*)	(*)	(*)
53 VIRGIN ISLANDS	38.4	34.8	35.9	(2)	(2)	(2)	3.8	2.8	2.9	3.1	2.7	2.6

¹ Combined with services.

² Combined with construction.

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

⁴ Subarea Baltimore Standard Metropolitan Statistical Area.

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

⁶ Subarea of New York—Northeastern New Jersey.

⁷ Subarea of Rochester Standard Metropolitan Statistical Area.

⁸ Area included in New York and Nassau—Suffolk combined SMSA's.

⁹ Subarea of New York Standard Metropolitan Statistical Area.

¹⁰ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, Philadelphia Counties, Pennsylvania.

¹¹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

¹² Total includes data for industry divisions not shown separately.

¹³ 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			
JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	
12.7	12.7	12.6	65.7	64.3	63.8	11.5	11.6	11.8	52.4	51.7	51.5	54.6	60.9	54.3	1
4.5	4.5	4.6	15.7	16.2	16.0	3.5	3.4	3.4	13.6	14.9	14.7	6.1	7.3	6.2	2
85.2	82.6	82.7	372.7	365.9	367.5	78.6	77.1	77.0	313.3	334.0	333.0	292.4	290.3	283.6	3
7.7	7.6	7.5	34.3	33.7	33.6	9.8	9.9	9.8	29.2	29.4	29.0	31.0	32.5	32.3	4
8.4	7.9	7.9	43.0	45.7	45.6	8.6	9.0	9.0	33.5	36.5	36.4	44.8	47.6	46.2	5
27.5	26.3	26.2	96.9	95.8	95.6	20.2	20.1	20.1	75.2	77.6	78.0	61.7	62.1	59.7	6
19.9	19.4	19.5	83.3	77.9	78.7	24.9	23.9	24.1	76.5	75.3	74.8	59.0	58.6	57.7	7
389.6	389.0	388.3	1,511.2	1,583.1	1,580.1	349.9	361.6	360.2	1,094.1	1,135.6	1,137.2	973.2	999.7	995.4	8
99.8	96.4	96.5	400.6	416.4	417.7	116.1	121.1	121.2	280.9	301.3	302.9	173.8	180.2	172.6	9
109.5	108.0	107.5	374.5	379.3	376.5	93.9	98.5	99.0	302.8	312.6	312.0	159.6	169.0	165.2	10
19.3	19.1	19.2	103.8	103.5	103.6	27.4	28.3	28.3	83.9	85.1	85.3	90.6	95.5	92.5	11
35.1	36.9	37.0	129.9	130.1	129.7	26.5	27.1	27.1	103.2	108.1	108.2	120.5	125.2	121.9	12
27.3	28.4	28.6	96.7	96.3	95.9	21.3	22.0	22.0	71.8	75.0	75.3	86.2	89.2	87.1	13
8.7	8.7	8.7	42.6	43.3	43.5	8.4	8.4	8.5	44.2	43.6	44.6	34.9	36.2	34.4	14
2.4	2.3	2.4	12.1	12.2	12.3	-	-	-	12.2	12.1	12.5	-	-	-	15
.6	.7	.7	2.3	2.2	2.2	-	-	-	2.7	2.6	2.7	-	-	-	16
118.6	118.4	117.5	465.1	477.3	477.2	108.1	107.2	107.6	427.7	432.0	433.3	497.8	516.5	503.1	17
1.1	1.1	1.2	6.2	6.9	7.0	.9	.9	.9	3.4	3.4	3.5	4.6	4.7	4.3	18
2.7	2.7	2.7	11.9	12.2	12.2	3.3	3.3	3.4	10.6	11.4	11.5	9.3	10.0	9.4	19
5.1	5.4	5.3	29.0	29.7	29.7	4.9	5.2	5.1	32.9	32.7	33.1	39.4	41.6	39.6	20
20.1	20.4	20.1	71.3	71.7	72.0	15.2	15.4	15.3	60.2	61.6	61.9	78.5	79.4	78.8	21
32.5	32.5	32.6	112.1	115.3	114.9	29.8	29.7	29.9	126.3	129.0	128.5	118.2	123.2	121.3	22
1.3	1.2	1.2	8.8	9.4	9.3	1.2	1.2	1.3	6.7	7.1	7.2	13.6	14.9	13.9	23
19.9	19.8	19.8	76.2	77.6	77.7	26.6	26.4	26.5	61.3	62.4	63.1	67.4	71.5	66.8	24
9.9	9.9	9.3	25.1	25.6	25.6	6.2	6.1	6.1	20.9	21.2	21.1	15.2	15.7	15.1	25
90.9	86.6	86.7	385.0	384.8	382.4	92.0	92.3	92.6	318.2	320.6	320.9	305.3	326.9	297.4	26
51.8	50.8	(*)	185.8	187.7	(*)	57.4	58.3	(*)	155.2	154.2	(*)	112.8	116.0	(*)	27
8.5	(*)	(*)	35.0	(*)	(*)	8.0	(*)	(*)	29.9	(*)	(*)	18.9	(*)	(*)	28
6.6	(*)	(*)	33.3	(*)	(*)	7.0	(*)	(*)	31.6	(*)	(*)	32.0	(*)	(*)	29
42.6	42.0	42.0	131.8	129.5	129.6	22.2	22.1	22.1	102.3	101.6	101.6	132.6	126.4	128.9	30
9.6	9.4	9.4	26.3	26.2	26.2	5.2	5.2	5.2	21.3	21.2	21.2	20.8	20.3	20.5	31
9.8	8.9	8.5	24.3	24.1	24.1	3.7	3.6	3.6	15.7	16.0	16.1	18.6	18.1	18.8	32
2.4	2.4	2.4	13.1	13.1	13.1	2.1	2.0	2.0	10.0	9.9	9.8	10.0	9.8	9.8	33
3.6	3.6	3.6	15.3	15.3	15.4	2.8	2.8	2.8	14.0	14.2	14.2	9.9	9.6	9.5	34
88.2	88.1	85.0	435.8	435.0	434.2	97.8	98.3	98.8	381.3	387.8	389.0	300.3	322.1	305.6	35
4.0	4.3	4.1	25.5	25.4	24.8	5.6	5.8	5.7	21.6	22.2	22.1	15.7	16.3	15.5	36
2.7	2.7	2.6	12.7	12.6	12.6	1.7	1.7	1.7	10.2	10.0	10.1	9.6	10.3	9.9	37
5.9	6.2	6.1	19.7	19.6	19.5	2.6	2.6	2.6	14.7	15.3	15.1	9.7	10.5	9.6	38
2.1	2.5	2.4	11.1	11.0	10.8	1.4	1.4	1.4	8.8	9.1	8.8	6.3	7.1	6.9	39
1.3	1.3	1.2	8.4	8.2	8.1	1.0	1.0	1.0	7.7	7.5	7.5	5.7	6.2	6.0	40
2.3	1.9	1.9	11.6	11.8	11.7	1.2	1.1	1.1	11.1	11.7	11.8	6.6	6.9	6.3	41
6.2	6.3	6.2	35.9	36.6	36.7	13.9	14.0	14.0	32.2	33.4	33.1	53.3	53.0	52.3	42
33.0	33.1	31.9	141.5	139.8	139.2	41.0	41.4	41.4	146.4	148.9	149.8	80.1	86.9	82.1	43
2.3	2.3	2.3	13.4	13.0	13.0	2.3	2.3	2.3	11.2	11.1	11.2	8.4	8.8	8.2	44
18.4	17.8	17.7	52.0	50.9	51.3	7.5	7.5	7.4	36.2	34.9	34.3	38.6	43.5	37.1	45
2.9	2.5	2.5	11.1	11.0	10.7	1.8	1.8	1.8	5.9	5.9	5.9	5.5	7.1	5.2	46
4.8	4.2	3.7	7.5	7.2	7.4	1.6	1.5	1.5	5.9	5.5	5.4	8.3	9.1	7.6	47
16.7	13.7	13.8	111.1	103.9	102.7	28.2	28.1	28.0	82.7	82.4	81.4	242.6	239.0	236.6	48
(*)	(*)	(*)	5.7	4.5	4.4	(*)	(*)	(*)	(*)	(*)	(*)	13.5	9.8	9.8	49
(*)	(*)	(*)	5.6	5.4	5.4	(*)	(*)	(*)	(*)	(*)	(*)	13.1	13.0	13.9	50
(*)	(*)	(*)	7.7	6.8	6.8	(*)	(*)	(*)	6.7	6.6	6.4	17.8	17.9	17.9	51
14.5	10.7	10.8	69.6	65.9	65.2	21.3	21.4	21.5	56.3	57.7	56.5	122.0	123.8	122.1	52
2.1	1.9	2.0	7.5	7.0	6.9	1.7	1.6	1.6	5.6	5.5	5.3	14.6	13.3	14.6	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.....	85.91	38.6	\$2.14	\$105.92	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.....	86.46	38.8	2.28	114.40	41.6	2.75	127.19	37.3	3.41	93.23	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	164.99	37.3	4.41	122.51	40.7	3.01	2.88
1969.....	114.61	37.7	3.04	154.30	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.....	130.90	37.0	3.70	189.14	42.6	4.44	221.19	36.5	6.05	154.71	40.5	3.82	3.66
1973.....	145.39	36.9	3.94	201.40	42.4	4.75	235.89	36.8	6.41	165.46	40.7	4.09	3.91
1974.....	154.76	36.5	4.24	219.14	41.9	5.23	249.25	35.6	6.81	176.80	40.0	4.42	4.25
1975.....	163.53	36.1	4.53	249.31	41.9	5.95	266.08	36.4	7.31	190.79	39.5	4.83	4.67
1976.....	175.45	36.1	4.86	273.90	42.4	6.46	283.73	36.8	7.71	209.32	40.1	5.22	5.02
1977.....	189.00	36.0	5.25	301.20	43.4	6.94	295.65	36.5	8.10	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:													
August....	259.88	35.6	7.30	447.30	44.2	10.12	408.41	37.4	10.92	320.40	39.9	8.03	7.74
September..	259.74	35.1	7.40	450.85	43.9	10.27	396.31	35.8	11.07	322.32	39.5	8.16	7.87
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	11.18	325.54	39.7	8.20	7.94
December..	262.24	35.2	7.45	466.37	44.8	10.41	417.75	37.1	11.26	329.97	39.9	8.27	8.00
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	465.86	42.7	10.91	439.29	38.1	11.53	333.45	39.0	8.55	8.31
August....	271.46	35.3	7.69	458.81	41.9	10.95	437.70	37.7	11.61	331.89	39.0	8.51	8.25
	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.....	\$113.74	41.1	\$2.49	74.55	37.9	1.97	85.79	37.3	2.30	\$70.03	36.1	\$1.94	-
1965.....	125.14	41.3	3.03	76.91	37.7	2.04	88.91	37.2	2.39	71.60	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	87.00	36.1	2.41	101.75	37.0	2.75	83.97	34.7	2.42	-
1969.....	147.74	40.7	3.63	91.39	35.7	2.56	108.70	37.1	2.93	90.57	34.7	2.61	-
1970.....	155.93	40.5	3.85	96.02	35.3	2.72	112.67	36.7	3.07	95.65	34.4	2.81	-
1971.....	168.82	40.1	4.21	101.09	35.1	2.88	117.85	35.6	3.22	103.06	33.9	3.04	-
1972.....	187.86	40.4	4.65	106.45	34.9	3.35	122.98	36.6	3.36	110.85	33.9	3.27	-
1973.....	203.31	40.5	5.02	111.76	34.6	3.23	129.20	35.6	3.53	117.29	33.8	3.47	-
1974.....	217.48	40.2	5.41	119.02	34.2	3.48	137.61	35.5	3.77	126.00	33.6	3.75	-
1975.....	233.44	39.7	5.88	125.45	33.9	3.73	143.19	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	35.4	4.27	143.52	33.3	4.31	-
1977.....	278.90	39.9	6.99	142.52	33.3	4.28	165.26	35.4	4.54	153.45	33.0	4.65	-
1978.....	302.80	40.0	7.57	153.64	32.9	4.67	178.00	35.4	4.89	163.67	32.8	4.99	-
1979.....	325.58	39.9	8.16	164.96	32.6	5.06	190.77	36.2	5.27	175.27	32.7	5.36	-
1980.....	351.25	39.6	8.87	176.46	32.2	5.48	209.60	36.2	5.79	190.71	32.6	5.85	-
1981.....	382.18	39.4	9.70	190.95	32.2	5.93	229.05	36.3	6.31	208.97	32.6	6.41	-
1981:													
August....	389.87	39.5	9.87	194.83	32.8	5.94	232.23	36.4	6.38	210.89	32.9	6.41	-
September..	390.04	39.2	9.95	194.49	32.2	6.04	230.04	36.0	6.39	211.25	32.4	6.52	-
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.....	404.24	39.4	10.26	202.12	32.6	6.20	245.75	36.3	6.77	227.07	33.1	6.86	-
August....	410.15	39.4	10.41	203.07	32.7	6.21	248.98	36.4	6.84	228.39	33.1	6.90	-

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

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.

p=preliminary.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
-	TOTAL PRIVATE	\$257.74	\$259.88	\$267.40	\$269.98	\$271.46	\$7.24	\$7.30	\$7.64	\$7.67	\$7.69
-	MINING	439.92	447.30	463.10	465.86	458.81	10.09	10.12	10.82	10.91	10.95
10	METAL MINING	468.64	477.15	489.17	473.69	-	11.60	11.84	12.26	12.24	-
101	Iron ores	495.46	518.75	547.37	482.41	-	11.91	12.47	12.70	12.53	-
102	Copper ores	495.97	485.60	463.23	466.82	-	11.98	11.99	12.32	12.85	-
11, 12	COAL MINING	484.01	507.78	511.20	508.69	-	-	12.09	12.78	-	-
12	BITUMINOUS COAL AND LIGNITE MINING	486.01	509.46	512.80	510.26	-	-	12.13	12.82	-	-
13	DIL AND GAS EXTRACTION	431.80	432.81	454.67	462.05	-	9.49	9.45	10.31	10.43	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	450.01	445.54	484.98	490.77	-	10.74	10.71	11.80	11.97	-
138	Oil and gas field services	426.82	429.52	443.86	451.90	-	9.12	9.10	9.82	9.91	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	362.32	366.68	384.09	392.47	-	8.31	8.41	8.85	8.94	-
142	Crushed and broken stone	350.32	353.90	378.79	391.05	-	7.98	8.08	8.57	8.59	-
-	CONSTRUCTION	407.86	408.41	427.88	439.29	437.70	10.79	10.92	11.41	11.53	11.61
15	GENERAL BUILDING CONTRACTORS	360.39	359.63	379.04	389.33	-	9.82	9.88	10.30	10.31	-
152	Residential building construction	327.25	322.73	349.02	358.67	-	9.04	9.04	9.51	9.59	-
153	Operative builders	314.71	305.28	306.12	310.18	-	8.46	8.41	8.12	8.12	-
154	Nonresidential building construction	396.55	398.83	412.16	424.10	-	10.66	10.75	11.20	11.37	-
16	HEAVY CONSTRUCTION CONTRACTORS	425.60	432.37	462.07	481.74	-	10.33	10.52	11.27	11.47	-
161	Highway and street construction	417.73	419.76	422.68	441.70	-	9.76	9.90	10.04	10.32	-
162	Heavy construction, except highway	429.71	437.81	477.50	499.15	-	10.61	10.81	11.79	11.97	-
17	SPECIAL TRADE CONTRACTORS	423.20	421.81	435.24	443.34	-	11.50	11.62	11.99	12.09	-
171	Plumbing, heating, air conditioning	441.18	436.73	448.07	466.73	-	11.61	11.74	12.11	12.38	-
172	Painting, paper hanging, decorating	372.40	373.11	380.41	381.59	-	10.49	10.51	10.90	10.91	-
173	Electrical work	498.35	496.31	521.29	521.68	-	13.08	13.13	13.54	13.55	-
174	Masonry, stonework, and plastering	381.35	380.65	404.54	413.35	-	10.99	11.13	11.76	11.91	-
175	Carpentering and flooring	357.74	355.01	375.42	380.30	-	10.28	10.35	11.14	11.12	-
176	Roofing and sheet metal work	354.58	360.85	353.14	366.74	-	10.16	10.31	10.51	10.63	-
-	MANUFACTURING	317.59	320.40	334.05	333.45	331.89	8.02	8.03	8.50	8.55	8.51
24, 25, 32-39	DURABLE GOODS	342.80	345.32	360.59	357.11	357.24	8.57	8.59	9.06	9.11	9.09
20-23, 26-31	NONDURABLE GOODS	282.30	284.86	297.99	299.92	298.38	7.22	7.23	7.70	7.77	7.73
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	276.71	278.07	297.53	292.99	293.75	7.15	7.13	7.59	7.63	7.61
241	Logging camps and logging contractors	370.60	366.03	418.15	398.87	-	9.43	9.29	10.64	10.58	-
242	Sawmills and planing mills	289.30	294.92	309.23	303.78	-	7.38	7.41	7.75	7.87	-
2421	Sawmills and planing mills, general	304.97	312.00	326.82	322.09	-	7.76	7.80	8.15	8.28	-
2426	Hardwood dimension and flooring	200.55	201.96	206.17	202.92	-	5.09	5.10	5.30	5.34	-
243	Millwork, plywood, and structural members	268.42	267.19	288.17	284.13	-	6.99	6.94	7.37	7.38	-
2431	Millwork	270.72	268.48	301.10	297.40	-	7.05	7.01	7.49	7.51	-
2434	Wood kitchen cabinets	227.79	235.99	251.17	248.05	-	6.19	6.31	6.68	6.65	-
2435	Hardwood veneer and plywood	215.99	224.54	220.80	215.50	-	5.51	5.49	5.75	5.84	-
2436	Softwood veneer and plywood	338.72	328.80	356.18	347.14	-	8.73	8.63	9.04	9.34	-
244	Wood containers	202.75	205.25	214.27	210.60	-	5.28	5.29	5.58	5.47	-
245	Wood buildings and mobile homes	241.24	239.65	249.46	248.25	-	6.52	6.53	6.67	6.62	-
2451	Mobile homes	245.70	242.08	249.48	246.28	-	6.50	6.49	6.60	6.55	-
249	Miscellaneous wood products	231.43	237.79	247.59	244.92	-	5.98	6.02	6.30	6.28	-
25	FURNITURE AND FIXTURES	223.78	231.21	238.77	234.21	240.41	5.92	5.99	6.30	6.33	6.36
251	Household furniture	204.78	210.35	215.18	208.22	-	5.49	5.55	5.80	5.80	-
2511	Wood household furniture	192.78	196.48	194.71	190.64	-	5.10	5.13	5.32	5.34	-
2512	Upholstered household furniture	212.07	218.15	227.65	214.72	-	5.81	5.88	6.22	6.17	-
2514	Metal household furniture	221.54	226.14	238.23	241.18	-	5.83	5.92	6.14	6.20	-
2515	Mattresses and bedsprings	220.93	232.61	243.81	240.41	-	6.02	6.17	6.45	6.48	-
252	Office furniture	247.11	260.65	265.28	261.71	-	6.32	6.50	6.75	6.73	-
253	Public building and related furniture	264.26	273.65	285.82	278.20	-	6.59	6.61	7.11	6.99	-
254	Partitions and fixtures	273.98	279.63	298.75	299.93	-	7.21	7.17	7.68	7.75	-
259	Miscellaneous furniture and fixtures	261.32	267.60	272.25	272.69	-	6.77	6.69	6.91	7.01	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
-	TOTAL PRIVATE	35.6	35.6	35.0	35.2	35.3	-	-	-	-	-
-	MINING	43.6	44.2	42.8	42.7	41.9	-	-	-	-	-
10	METAL MINING	40.4	40.3	39.9	38.7	-	-	-	-	-	-
101	Iron ores	41.6	41.6	43.1	38.5	-	-	-	-	-	-
102	Copper ores	41.4	40.5	37.6	36.3	-	-	-	-	-	-
11, 12	COAL MINING	-	42.0	40.0	-	-	-	-	-	-	-
12	BITUMINOUS COAL AND LIGNITE MINING	-	42.0	40.0	-	-	-	-	-	-	-
13	OIL AND GAS EXTRACTION	45.5	45.8	44.1	44.3	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	41.9	41.6	41.1	41.0	-	-	-	-	-	-
138	Oil and gas field services	46.8	47.2	45.2	45.6	-	-	-	-	-	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	43.6	43.6	43.4	43.9	-	-	-	-	-	-
142	Crushed and broken stone	43.9	43.8	44.2	45.0	-	-	-	-	-	-
-	CONSTRUCTION	37.8	37.4	37.5	38.1	37.7	-	-	-	-	-
15	GENERAL BUILDING CONTRACTORS	36.7	36.4	36.8	37.4	-	-	-	-	-	-
152	Residential building construction	36.2	35.7	36.7	37.4	-	-	-	-	-	-
153	Operative builders	37.2	36.3	37.7	38.2	-	-	-	-	-	-
154	Nonresidential building construction	37.2	37.1	36.8	37.3	-	-	-	-	-	-
16	HEAVY CONSTRUCTION CONTRACTORS	41.2	41.1	41.0	42.0	-	-	-	-	-	-
161	Highway and street construction	42.8	42.4	42.1	42.8	-	-	-	-	-	-
162	Heavy construction, except highway	40.5	40.5	40.5	41.7	-	-	-	-	-	-
17	SPECIAL TRADE CONTRACTORS	36.8	36.3	36.3	36.7	-	-	-	-	-	-
171	Plumbing, heating, air conditioning	38.0	37.2	37.0	37.7	-	-	-	-	-	-
172	Painting, paper hanging, decorating	35.5	35.5	34.9	35.3	-	-	-	-	-	-
173	Electrical work	38.1	37.8	38.5	38.5	-	-	-	-	-	-
174	Masonry, stonework, and plastering	34.7	34.2	34.4	35.0	-	-	-	-	-	-
175	Carpentering and flooring	34.8	34.3	33.7	34.2	-	-	-	-	-	-
176	Roofing and sheet metal work	34.9	35.0	33.6	34.5	-	-	-	-	-	-
-	MANUFACTURING	39.6	39.9	39.3	39.0	39.0	2.8	3.0	2.4	2.3	2.5
24, 25, 32-39	DURABLE GOODS	40.0	40.2	39.8	39.2	39.3	2.8	2.9	2.3	2.1	2.3
20-23, 26-31	NONDURABLE GOODS	39.1	39.4	38.7	38.6	38.6	2.8	3.0	2.5	2.5	2.7
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	38.7	39.0	39.2	38.4	38.6	2.7	2.8	2.6	2.5	-
241	Logging camps and logging contractors	39.3	39.4	39.3	37.7	-	3.9	4.4	3.4	2.8	-
242	Sawmills and planing mills	39.2	39.8	39.9	38.6	-	3.2	3.3	3.1	3.0	-
2421	Sawmills and planing mills, general	39.3	40.0	40.1	38.9	-	3.4	3.6	3.3	3.2	-
2426	Hardwood dimension and flooring	39.4	39.6	38.9	38.0	-	2.2	2.3	2.1	2.0	-
243	Millwork, plywood, and structural members	38.4	38.5	39.1	38.5	-	2.0	2.2	2.3	2.3	-
2431	Millwork	38.4	38.3	40.2	39.6	-	1.3	1.8	2.1	2.1	-
2434	Wood kitchen cabinets	36.8	37.4	37.6	37.3	-	1.2	1.6	2.1	1.5	-
2435	Hardwood veneer and plywood	39.2	40.9	38.4	36.9	-	3.0	3.3	2.2	1.9	-
2436	Softwood veneer and plywood	38.8	38.1	39.4	38.4	-	3.1	2.9	3.0	3.1	-
244	Wood containers	38.4	38.8	38.4	38.5	-	2.1	2.2	1.9	1.8	-
245	Wood buildings and mobile homes	37.0	36.7	37.4	37.5	-	1.8	1.6	1.6	1.7	-
2451	Mobile homes	37.8	37.3	37.8	37.6	-	1.4	1.2	1.7	1.7	-
249	Miscellaneous wood products	38.7	39.5	39.3	39.0	-	2.5	2.6	2.1	2.3	-
25	FURNITURE AND FIXTURES	37.8	38.6	37.9	37.0	37.8	1.7	2.0	1.5	1.4	-
251	Household furniture	37.3	37.9	37.1	35.9	-	1.5	1.6	1.2	.9	-
2511	Wood household furniture	37.8	38.3	36.6	35.7	-	1.7	1.8	1.3	1.0	-
2512	Upholstered household furniture	36.5	37.1	36.6	34.8	-	1.0	1.1	.8	.5	-
2514	Metal household furniture	38.0	38.2	38.8	38.9	-	2.1	1.9	1.9	1.5	-
2515	Mattresses and bedspings	36.7	37.7	37.8	37.1	-	1.8	2.1	1.5	1.5	-
252	Office furniture	39.1	40.1	39.3	38.6	-	2.2	2.9	2.0	1.9	-
253	Public building and related furniture	40.1	41.4	40.2	39.8	-	2.3	2.9	2.4	2.9	-
254	Partitions and fixtures	38.0	39.0	38.9	38.7	-	2.4	2.8	2.2	2.4	-
259	Miscellaneous furniture and fixtures	38.6	40.0	39.4	38.9	-	1.6	2.3	1.8	1.7	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
32	STONE, CLAY, AND GLASS PRODUCTS	\$342.72	\$344.81	\$361.49	\$362.56	\$363.94	\$8.40	\$8.41	\$8.86	\$8.93	\$8.92
321	Flat glass	442.57	448.33	529.69	496.35	-	10.69	10.70	11.93	11.57	-
322	Glass and glassware, pressed or blown	356.17	361.97	384.61	384.87	-	8.86	8.85	9.52	9.55	-
3221	Glass containers	376.00	384.81	406.96	408.18	-	9.33	9.34	9.95	9.93	-
3229	Pressed and blown glass, nec	327.62	329.67	350.95	348.98	-	8.17	8.14	8.84	8.83	-
323	Products of purchased glass	293.88	289.09	319.56	312.03	-	7.44	7.47	7.91	7.96	-
324	Cement, hydraulic	499.56	502.25	513.76	511.19	-	11.81	11.93	12.47	12.55	-
325	Structural clay products	273.76	276.74	282.27	282.35	-	6.81	6.85	7.11	7.13	-
326	Pottery and related products	264.50	261.50	286.30	283.49	-	6.87	6.81	7.36	7.48	-
327	Concrete, gypsum, and plaster products	351.10	352.80	364.61	373.15	-	8.32	8.38	8.64	8.73	-
3271	Concrete block and brick	319.60	322.18	336.78	333.50	-	7.52	7.51	7.76	7.72	-
3272	Concrete products, nec	313.11	314.49	327.33	328.60	-	7.35	7.47	7.72	7.88	-
3273	Ready-mixed concrete	381.20	383.88	394.83	411.40	-	9.23	9.25	9.56	9.69	-
329	Misc. nonmetallic mineral products	337.81	338.22	343.47	342.22	-	8.30	8.31	8.63	8.73	-
3291	Abrasive products	321.99	320.00	324.14	321.77	-	8.07	7.98	8.53	8.72	-
3292	Asbestos products	348.14	351.37	344.04	355.51	-	8.45	8.57	8.89	8.91	-
33	PRIMARY METAL INDUSTRIES	434.43	442.90	439.96	438.13	443.12	10.78	10.99	11.31	11.38	11.45
331	Blast furnace and basic steel products	498.08	516.80	505.94	502.36	-	12.39	12.92	13.21	13.23	-
3312	Blast furnaces and steel mills	514.00	535.16	524.40	522.26	-	12.85	13.48	13.80	13.93	-
3317	Steel pipe and tubes	422.30	425.18	419.61	405.85	-	10.30	10.27	10.65	10.46	-
332	Iron and steel foundries	357.63	354.88	362.09	367.88	-	9.10	9.03	9.63	9.81	-
3321	Gray iron foundries	366.67	355.41	366.22	382.28	-	9.33	9.16	9.74	10.36	-
3322	Malleable iron foundries	374.02	376.94	381.02	374.17	-	9.74	9.69	10.27	10.13	-
3325	Steel foundries, nec	337.79	352.29	350.25	338.26	-	8.53	8.72	9.39	9.37	-
333	Primary nonferrous metals	511.60	502.15	522.86	523.67	-	12.21	12.10	12.91	12.93	-
3334	Primary aluminum	542.41	536.26	555.66	556.37	-	13.07	12.86	13.72	13.57	-
336	Nonferrous rolling and drawing	401.86	406.16	414.53	408.98	-	9.66	9.74	10.21	10.25	-
3361	Copper rolling and drawing	355.66	367.65	356.21	366.13	-	8.57	8.61	8.95	8.93	-
3353	Aluminum sheet, plate, and foil	527.88	522.50	555.67	549.69	-	12.45	12.56	13.52	13.54	-
3357	Nonferrous wire drawing and insulating	363.26	368.87	380.95	369.03	-	8.86	8.91	9.36	9.39	-
336	Nonferrous foundries	315.20	317.60	336.60	336.02	-	8.00	7.96	8.50	8.55	-
3361	Aluminum foundries	323.53	322.78	348.47	347.77	-	8.17	8.11	8.69	8.75	-
34	FABRICATED METAL PRODUCTS	327.58	332.88	349.67	344.27	347.21	8.21	8.26	8.83	8.95	8.88
341	Metal cans and shipping containers	479.83	491.51	516.22	503.53	-	10.93	11.07	11.84	11.82	-
3411	Metal cans	500.59	512.76	541.20	527.18	-	11.30	11.42	12.30	12.26	-
342	Cutlery, hand tools, and hardware	311.66	308.85	328.18	324.40	-	7.89	7.76	8.48	8.47	-
3423, 5	Hand and edge tools, and hand saws and blades	290.55	297.60	293.63	292.43	-	7.45	7.44	7.83	7.81	-
3429	Hardware, nec	317.49	319.97	352.02	348.66	-	8.12	8.08	8.98	8.94	-
343	Plumbing and heating, except electric	280.62	284.40	301.47	302.93	-	7.27	7.33	7.81	7.93	-
3432	Plumbing fittings and brass goods	275.52	274.71	285.64	290.68	-	6.94	6.99	7.40	7.55	-
3433	Heating equipment, except electric	273.35	284.79	308.44	305.18	-	7.27	7.34	7.97	8.01	-
344	Fabricated structural metal products	320.00	326.43	338.18	335.40	-	8.00	8.08	8.54	8.60	-
3441	Fabricated structural metal	344.81	352.34	356.98	359.90	-	8.41	8.49	8.88	9.02	-
3442	Metal doors, sash, and trim	251.02	249.99	264.88	258.14	-	6.42	6.41	6.74	6.74	-
3443	Fabricated plate work (boiler shops)	351.48	362.50	381.20	372.84	-	8.70	8.82	9.53	9.56	-
3444	Sheet metal work	320.23	326.33	339.89	344.76	-	8.19	8.22	8.76	8.84	-
3446	Architectural metal work	295.66	302.71	314.73	327.89	-	7.41	7.53	8.07	8.23	-
345	Screw machine products, bolts, etc.	309.91	316.71	319.45	313.78	-	7.69	7.82	8.17	8.15	-
3451	Screw machine products	283.77	287.68	291.04	288.03	-	7.13	7.21	7.54	7.54	-
3452	Bolts, nuts, rivets, and washers	334.56	343.17	346.90	339.21	-	8.20	8.37	8.76	8.72	-
346	Metal forgings and stampings	377.06	382.32	407.84	393.82	-	9.45	9.44	10.12	10.15	-
3462	Iron and steel forgings	393.57	406.82	426.02	408.34	-	10.04	10.12	10.98	10.86	-
3465	Automotive stampings	464.02	467.71	500.23	473.89	-	11.29	11.27	11.77	11.73	-
3469	Metal stampings, nec	286.94	292.93	303.80	301.18	-	7.32	7.36	7.85	8.01	-
347	Metal services, nec	262.35	261.35	270.05	273.47	-	6.51	6.55	6.96	7.03	-
3471	Plating and polishing	254.87	256.36	265.30	269.97	-	6.42	6.49	6.82	6.94	-
3479	Metal coating and allied services	279.39	272.14	280.28	281.97	-	6.70	6.67	7.28	7.23	-
348	Ordnance and accessories, nec	316.37	328.35	360.50	357.63	-	8.05	8.25	8.99	9.11	-
3483	Ammunition, exc. for small arms, nec	280.48	290.97	334.36	324.24	-	7.42	7.48	8.38	8.33	-
349	Misc. fabricated metal products	301.86	308.50	320.05	315.02	-	7.74	7.81	8.27	8.29	-
3494	Valves and pipe fittings	320.15	330.74	337.04	334.15	-	8.23	8.31	8.80	8.84	-
3496	Misc. fabricated wire products	264.10	264.88	277.61	277.48	-	6.72	6.74	7.10	7.17	-
35	MACHINERY, EXCEPT ELECTRICAL	357.62	359.79	367.09	364.95	366.13	8.83	8.84	9.27	9.31	9.34
351	Engines and turbines	445.94	441.54	438.40	447.63	-	10.93	11.15	11.27	11.39	-
3511	Turbines and turbine generator sets	390.39	412.48	419.69	422.28	-	10.01	10.39	10.44	10.83	-
3519	Internal combustion engines, nec	467.71	451.88	447.73	459.80	-	11.27	11.44	11.69	11.67	-
352	Farm and garden machinery	402.38	389.37	411.73	412.12	-	9.96	9.71	10.45	10.46	-
3523	Farm machinery and equipment	413.91	403.81	433.40	430.06	-	10.22	10.02	11.00	10.86	-
353	Construction and related machinery	392.76	397.99	387.54	382.39	-	9.65	9.66	10.04	10.17	-

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				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
32	STONE, CLAY, AND GLASS PRODUCTS	40.8	41.0	40.8	40.6	40.8	4.1	4.1	3.7	3.7	-
321	Flat glass	41.4	41.9	44.4	42.9	-	4.0	4.0	4.7	3.5	-
322	Glass and glassware, pressed or blown	40.2	40.9	40.4	40.3	-	4.3	4.3	3.9	4.1	-
3221	Glass containers	40.3	41.2	40.9	40.9	-	4.7	4.8	4.5	4.3	-
3229	Pressed and blown glass, nec	40.1	40.5	39.7	39.3	-	3.7	3.6	3.0	3.1	-
323	Products of purchased glass	39.5	38.7	40.4	39.2	-	3.1	3.0	2.8	2.6	-
324	Cement, hydraulic	42.3	42.1	41.2	40.7	-	3.3	3.3	2.4	2.2	-
325	Structural clay products	40.2	40.4	39.7	39.6	-	3.1	3.3	2.5	2.5	-
326	Pottery and related products	38.5	38.4	38.9	37.9	-	1.6	1.7	1.6	1.4	-
327	Concrete, gypsum, and plaster products	42.2	42.1	42.2	42.5	-	5.4	5.3	5.3	5.5	-
3271	Concrete block and brick	42.5	42.9	43.4	43.2	-	5.0	4.7	5.3	5.2	-
3272	Concrete products, nec	42.6	42.1	42.4	41.7	-	4.8	4.7	4.8	4.8	-
3273	Ready-mixed concrete	41.3	41.5	41.3	42.5	-	5.6	5.6	5.7	6.2	-
329	Misc. nonmetallic mineral products	40.7	40.7	39.8	39.2	-	3.6	3.6	2.4	2.4	-
3291	Abrasive products	39.9	40.1	38.0	36.9	-	2.7	2.8	1.2	1.3	-
3292	Asbestos products	41.2	41.0	38.7	39.9	-	3.4	3.1	2.0	2.6	-
33	PRIMARY METAL INDUSTRIES	40.3	40.3	38.9	38.5	38.7	3.1	3.1	2.0	2.1	-
331	Blast furnace and basic steel products	40.2	40.0	38.3	37.8	-	2.8	2.9	1.4	1.5	-
3312	Blast furnaces and steel mills	40.0	39.7	38.0	37.6	-	2.7	2.8	1.3	1.5	-
3317	Steel pipe and tubes	41.0	41.4	39.4	38.8	-	4.2	3.6	1.7	2.2	-
332	Iron and steel foundries	39.3	39.3	37.6	37.5	-	2.8	2.9	2.0	2.3	-
3321	Gray iron foundries	39.3	38.8	37.6	38.0	-	3.2	2.9	2.4	2.5	-
3322	Malleable iron foundries	38.4	38.9	37.1	36.9	-	2.4	2.5	2.0	1.3	-
3325	Steel foundries, nec	39.6	40.4	37.3	36.1	-	2.2	3.1	1.3	1.0	-
333	Primary nonferrous metals	41.9	41.5	40.5	40.5	-	3.6	3.2	2.9	2.7	-
3334	Primary aluminum	41.5	41.7	40.5	40.7	-	3.8	3.7	3.6	3.4	-
335	Nonferrous rolling and drawing	41.6	41.7	40.6	39.9	-	4.3	4.5	3.2	3.0	-
3351	Copper rolling and drawing	41.5	42.7	39.8	41.0	-	4.5	4.7	2.7	2.8	-
3353	Aluminum sheet, plate and foil	42.4	41.6	41.1	40.3	-	5.5	5.1	4.5	4.5	-
3357	Nonferrous wire drawing and insulating	41.0	41.4	40.7	39.3	-	4.4	4.7	3.2	2.6	-
336	Nonferrous foundries	39.4	39.9	39.6	39.3	-	2.3	2.4	2.0	2.0	-
3361	Aluminum foundries	39.6	39.8	40.1	39.7	-	2.8	2.5	2.0	2.3	-
34	FABRICATED METAL PRODUCTS	39.9	40.3	39.6	38.9	39.1	2.7	2.9	2.2	2.3	-
341	Metal cans and shipping containers	43.9	44.4	43.6	42.6	-	4.7	5.3	4.6	4.4	-
3411	Metal cans	44.3	44.9	44.0	43.0	-	4.6	5.3	4.6	4.5	-
342	Cutlery, hand tools, and hardware	39.5	39.8	38.7	38.3	-	2.0	2.4	1.4	1.4	-
3423, 5	Hand and edge tools, and hand saws and blades	39.0	40.0	37.5	37.3	-	2.2	2.4	.8	1.3	-
3429	Hardware, nec	39.1	39.6	39.2	39.0	-	2.0	2.4	1.6	1.6	-
343	Plumbing and heating, except electric	38.6	38.8	38.6	38.2	-	1.7	1.7	1.1	.9	-
3432	Plumbing fittings and brass goods	39.7	39.3	38.6	38.5	-	2.2	2.0	1.1	1.3	-
3433	Heating equipment, except electric	37.6	38.8	38.7	38.1	-	1.3	1.6	1.1	.8	-
344	Fabricated structural metal products	40.0	40.4	39.6	39.0	-	2.6	2.9	2.2	2.0	-
3441	Fabricated structural metal	41.0	41.5	40.2	39.9	-	3.1	3.5	2.6	2.7	-
3442	Metal doors, sash, and trim	39.1	39.0	39.3	38.3	-	2.2	2.2	2.3	1.9	-
3443	Fabricated plate work (boiler shops)	40.4	41.1	40.0	39.0	-	2.9	3.3	2.2	1.8	-
3444	Sheet metal work	39.1	39.7	38.8	39.0	-	2.3	2.5	1.9	1.8	-
3446	Architectural metal work	39.9	40.2	39.0	39.6	-	1.8	2.4	1.6	2.2	-
345	Screw machine products, bolts, etc.	40.3	40.5	39.1	38.5	-	2.7	3.0	1.9	1.6	-
3451	Screw machine products	39.8	39.9	38.6	38.2	-	2.6	2.7	1.7	1.4	-
3452	Bolts, nuts, rivets, and washers	40.8	41.0	39.6	38.9	-	2.7	3.3	2.0	1.9	-
346	Metal forgings and stampings	39.9	40.5	40.3	38.8	-	3.1	3.1	3.0	2.3	-
3462	Iron and steel forgings	39.2	40.2	38.8	37.6	-	2.8	3.1	2.3	1.7	-
3465	Automotive stampings	41.1	41.5	42.5	40.4	-	4.0	3.8	4.3	3.1	-
3469	Metal stampings, nec	39.2	39.8	38.7	37.6	-	2.3	2.5	1.9	1.7	-
347	Metal services, nec	40.3	39.9	38.8	38.9	-	2.9	2.7	2.3	2.3	-
3471	Plating and polishing	39.7	39.5	38.9	38.9	-	2.9	2.8	2.2	2.1	-
3479	Metal coating and allied services	41.7	40.8	38.5	39.0	-	2.8	2.5	2.4	2.7	-
348	Ordinance and accessories, nec	39.3	39.8	40.1	39.3	-	2.1	2.5	2.2	1.7	-
3483	Ammunition, exc. for small arms, nec	37.8	38.9	39.9	38.6	-	1.1	2.0	1.8	1.0	-
349	Misc. fabricated metal products	39.0	39.5	38.7	38.0	-	2.5	2.7	1.6	1.4	-
3494	Valves and pipe fittings	38.9	39.8	38.3	37.8	-	2.7	2.7	1.4	1.2	-
3496	Misc. fabricated wire products	39.3	39.3	39.1	38.7	-	2.4	2.6	1.5	1.4	-
35	MACHINERY, EXCEPT ELECTRICAL	40.5	40.7	39.6	39.2	39.2	3.1	3.3	2.1	1.9	-
351	Engines and turbines	40.8	39.6	38.9	39.3	-	3.0	3.1	1.5	1.3	-
3511	Turbines and turbine generator sets	39.0	39.7	40.2	39.1	-	3.1	3.6	2.7	2.7	-
3519	Internal combustion engines, nec	41.5	39.5	38.3	39.4	-	3.0	2.9	.9	.6	-
352	Farm and garden machinery	40.4	40.1	39.4	39.4	-	3.3	3.2	2.1	1.7	-
3523	Farm machinery and equipment	40.5	40.3	39.4	39.6	-	3.7	3.6	2.3	1.9	-
353	Construction and related machinery	40.7	41.2	38.6	37.6	-	3.3	3.6	1.6	1.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery	\$428.76	\$434.00	\$392.99	\$399.24	-	\$10.91	\$10.85	\$11.07	\$11.31	-
3532	Mining machinery	374.23	375.77	397.06	383.02	-	9.67	9.66	10.34	10.33	-
3533	Oil field machinery	402.19	409.87	407.88	396.60	-	9.12	9.19	9.90	9.93	-
3535	Conveyers and conveying equipment	340.95	350.86	338.37	340.96	-	8.72	8.86	8.61	8.61	-
3537	Industrial trucks and tractors	314.88	318.59	330.85	320.42	-	8.20	8.34	8.87	8.65	-
354	Metalworking machinery	364.08	367.98	379.69	377.62	-	8.88	8.91	9.54	9.55	-
3541	Machine tools, metal cutting types	376.24	379.22	379.65	383.55	-	9.11	9.16	9.81	9.85	-
3542	Machine tools, metal forming types	348.55	357.17	379.38	374.12	-	9.27	9.35	10.01	10.03	-
3544	Special dies, tools, jigs, and fixtures	390.21	393.30	414.65	407.62	-	9.38	9.32	10.04	10.04	-
3545	Machine tool accessories	328.45	336.20	325.01	332.76	-	8.07	8.22	8.69	8.73	-
3546	Power driven hand tools	282.63	289.35	299.52	300.23	-	7.21	7.27	7.68	7.62	-
355	Special industry machinery	330.86	336.60	356.80	351.39	-	8.21	8.25	8.92	9.01	-
3551	Food products machinery	349.00	352.51	367.48	367.35	-	8.66	8.64	9.21	9.33	-
3552	Textile machinery	260.04	266.53	275.41	274.18	-	6.55	6.63	7.08	7.14	-
3555	Printing trades machinery	352.37	357.44	378.68	367.22	-	8.43	8.45	9.35	9.44	-
356	General industrial machinery	352.00	353.36	357.35	354.82	-	8.80	8.79	9.21	9.24	-
3561	Pumps and pumping equipment	337.18	350.73	367.09	358.53	-	8.92	8.97	9.51	9.51	-
3562	Ball and roller bearings	364.27	358.80	351.51	345.22	-	8.82	8.73	8.99	8.99	-
3563	Air and gas compressors	385.56	395.93	395.00	388.32	-	9.18	9.36	10.00	10.05	-
3564	Blowers and fans	316.40	319.19	343.48	345.72	-	7.99	8.04	8.46	8.53	-
3566	Speed changers, drives, and gears	395.20	403.09	357.46	366.55	-	9.71	9.76	9.74	9.88	-
3568	Power transmission equipment, nec	347.36	333.33	323.69	327.36	-	8.31	8.21	8.82	8.83	-
357	Office and computing machines	300.92	310.75	325.86	326.36	-	7.43	7.47	7.89	7.95	-
3573	Electronic computing equipment	300.37	313.74	325.26	324.24	-	7.38	7.47	7.80	7.87	-
358	Refrigeration and service machinery	316.01	318.77	344.27	343.41	-	7.96	8.07	8.65	8.65	-
3585	Refrigeration and heating equipment	327.23	329.57	359.30	356.40	-	8.14	8.26	8.96	8.91	-
359	Misc. machinery, except electrical	343.40	345.51	352.63	352.68	-	8.50	8.51	8.95	9.02	-
3592	Carburetors, pistons, rings, valves	398.40	401.60	423.63	408.10	-	10.01	9.99	10.46	10.63	-
3599	Machinery, except electrical, nec	334.94	337.00	341.82	343.30	-	8.27	8.28	8.72	8.79	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	303.71	309.20	319.56	319.84	\$323.40	7.65	7.73	8.09	8.13	\$8.25
361	Electric distributing equipment	304.07	303.34	307.28	301.31	-	7.64	7.66	7.94	7.95	-
3612	Transformers	305.93	305.86	306.54	296.81	-	7.48	7.46	7.84	7.77	-
3613	Switchgear and switchboard apparatus	302.25	301.06	307.97	304.94	-	7.77	7.84	8.02	8.11	-
362	Electrical industrial apparatus	318.71	317.20	320.93	319.49	-	7.85	7.93	8.25	8.32	-
3621	Motors and generators	319.46	312.83	330.37	332.69	-	7.83	7.86	8.28	8.38	-
3622	Industrial controls	303.76	310.08	298.17	295.32	-	7.69	7.87	7.93	7.95	-
363	Household appliances	300.31	306.50	309.24	308.74	-	7.72	7.74	7.97	8.04	-
3632	Household refrigerators and freezers	362.07	387.82	363.92	374.14	-	8.94	9.19	9.19	9.17	-
3633	Household laundry equipment	352.69	351.92	360.02	359.48	-	9.09	9.31	9.40	9.51	-
3634	Electric housewares and fans	227.46	235.61	237.46	230.88	-	5.97	5.98	6.20	6.24	-
364	Electric lighting and wiring equipment	283.06	281.24	299.14	301.47	-	7.13	7.12	7.69	7.73	-
3641	Electric lamps	329.64	334.97	329.09	331.74	-	8.04	8.15	8.46	8.55	-
3643	Current-carrying wiring devices	271.08	267.85	283.68	292.80	-	6.71	6.73	7.20	7.32	-
3644	Noncurrent-carrying wiring devices	295.20	283.97	286.71	303.42	-	7.38	7.30	7.77	7.75	-
3645	Residential lighting fixtures	208.88	214.68	227.90	223.63	-	5.60	5.62	6.11	6.11	-
365	Radio and TV receiving equipment	283.68	282.27	312.40	310.45	-	7.20	7.11	7.81	7.94	-
3651	Radio and TV receiving sets	289.77	285.98	322.80	317.52	-	7.43	7.24	8.01	8.13	-
366	Communication equipment	348.60	364.99	381.24	380.09	-	8.65	8.99	9.46	9.55	-
3661	Telephone and telegraph apparatus	358.97	397.16	381.68	380.03	-	8.62	9.57	9.59	9.67	-
3662	Radio and TV communication equipment	342.86	345.66	381.64	380.15	-	8.55	8.62	9.40	9.48	-
367	Electronic components and accessories	257.24	265.99	279.97	283.61	-	6.63	6.70	7.07	7.13	-
3671-3	Electronic tubes	332.29	330.96	366.06	367.28	-	8.37	8.40	8.95	8.98	-
3674	Semiconductors and related devices	287.25	310.31	317.20	321.53	-	7.50	7.70	8.01	8.14	-
3679	Electronic components, nec	245.46	249.38	263.74	264.80	-	6.23	6.25	6.61	6.67	-
369	Misc. electrical equipment and supplies	348.33	350.83	343.14	339.95	-	8.73	8.62	8.60	8.55	-
3891	Storage batteries	335.29	361.92	357.11	353.05	-	8.51	8.70	9.11	9.17	-
3694	Engine electrical equipment	397.37	388.27	356.72	342.40	-	10.06	9.78	9.10	8.94	-
37	TRANSPORTATION EQUIPMENT	425.95	421.02	466.34	457.16	452.88	10.44	10.37	11.21	11.26	11.21
371	Motor vehicles and equipment	459.67	444.99	508.46	489.04	-	11.13	10.88	11.88	11.87	-
3711	Motor vehicles and car bodies	517.07	501.43	574.56	547.94	-	12.37	12.23	13.30	13.14	-
3713	Truck and bus bodies	349.92	351.01	380.78	359.33	-	8.77	8.71	9.31	9.12	-
3714	Motor vehicle parts and accessories	434.48	426.01	485.04	464.74	-	10.52	10.34	11.28	11.28	-
3715	Truck trailers	273.40	283.86	302.13	294.03	-	7.47	7.47	7.93	8.13	-
372	Aircraft and parts	416.96	423.63	455.22	454.41	-	10.27	10.46	11.13	11.22	-
3721	Aircraft	435.34	434.22	472.32	474.30	-	10.67	10.91	11.72	11.74	-
3724	Aircraft engines and engine parts	411.34	427.43	448.11	447.28	-	10.44	10.58	11.01	11.21	-
3728	Aircraft equipment, nec	385.43	395.96	430.44	424.98	-	9.31	9.45	10.20	10.29	-
373	Ship and boat building and repairing	359.39	366.33	382.08	388.08	-	8.94	9.09	9.60	9.83	-
3731	Shipbuilding and repairing	375.87	383.66	401.60	-	-	9.35	9.52	10.04	-	-
3732	Boat building and repairing	299.83	301.90	304.20	313.19	-	7.44	7.51	7.78	8.31	-
374	Railroad equipment	426.73	431.04	424.13	-	-	10.57	10.94	11.25	-	-

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				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	39.3	40.0	35.5	35.3	-	1.6	2.2	0.9	0.9	-
3532	Mining machinery	38.7	38.9	38.4	36.9	-	2.1	1.8	1.0	.9	-
3533	Oil field machinery	44.1	44.6	41.2	39.7	-	6.0	6.1	2.4	2.3	-
3535	Conveyers and conveying equipment	39.1	39.6	39.3	39.6	-	3.0	3.9	1.9	2.0	-
3537	Industrial trucks and tractors	38.4	38.2	37.3	37.0	-	2.5	2.6	.9	1.3	-
354	Metalworking machinery	41.0	41.3	39.8	39.5	-	3.7	4.0	2.6	2.4	-
3541	Machine tools, metal cutting types	41.3	41.4	38.7	38.9	-	4.0	4.2	1.9	1.9	-
3542	Machine tools, metal forming types	37.6	38.2	37.9	37.3	-	2.0	2.5	1.3	1.1	-
3544	Special dies, tools, jigs, and fixtures	41.6	42.2	41.3	40.6	-	4.6	4.9	4.1	3.4	-
3545	Machine tool accessories	40.7	40.9	37.4	37.9	-	3.0	3.1	1.2	1.4	-
3546	Power driven hand tools	39.2	39.8	39.0	39.4	-	2.0	2.7	1.1	1.5	-
355	Special industry machinery	40.3	40.8	40.0	39.0	-	2.7	2.8	2.2	2.0	-
3551	Food products machinery	40.3	40.8	39.9	39.5	-	1.9	2.2	2.2	2.3	-
3552	Textile machinery	39.7	40.2	38.9	38.4	-	1.8	2.1	1.1	.8	-
3555	Printing trades machinery	41.8	42.3	40.5	38.9	-	3.7	3.8	2.7	2.1	-
356	General industrial machinery	40.0	40.2	38.8	38.4	-	2.8	3.0	1.7	1.7	-
3561	Pumps and pumping equipment	37.8	39.1	38.6	37.7	-	2.2	2.7	1.5	1.2	-
3562	Ball and roller bearings	41.3	41.1	39.1	38.4	-	3.5	3.3	1.8	2.1	-
3563	Air and gas compressors	42.0	42.3	39.5	38.6	-	2.9	3.6	2.3	2.4	-
3564	Blowers and fans	39.6	39.7	40.6	40.2	-	3.0	3.2	2.4	2.2	-
3566	Speed changers, drives, and gears	40.7	41.3	36.7	37.1	-	3.7	4.3	1.0	.8	-
3568	Power transmission equipment, nec	41.8	40.6	36.7	37.2	-	3.5	2.9	1.1	1.4	-
357	Office and computing machines	40.5	41.6	41.3	41.0	-	2.2	2.8	2.3	2.1	-
3573	Electronic computing equipment	40.7	42.0	41.7	41.2	-	2.4	3.2	2.5	2.2	-
358	Refrigeration and service machinery	39.7	39.5	39.8	39.7	-	2.4	2.3	2.3	2.3	-
3585	Refrigeration and heating equipment	40.2	39.9	40.1	40.0	-	2.5	2.4	2.4	2.0	-
359	Misc. machinery, except electrical	40.4	40.6	39.4	39.1	-	3.6	3.7	2.5	2.2	-
3592	Carburetors, pistons, rings, valves	39.8	40.2	40.5	38.5	-	3.0	2.7	2.7	1.5	-
3599	Machinery, except electrical, nec	40.5	40.7	39.2	39.1	-	3.6	3.8	2.5	2.3	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	39.7	40.0	39.5	39.1	39.2	2.1	2.3	1.9	1.7	-
361	Electric distributing equipment	39.8	39.6	38.7	37.9	-	2.7	2.8	1.7	1.5	-
3612	Transformers	40.9	41.0	39.1	38.2	-	3.4	2.8	2.1	1.7	-
3613	Switchgear and switchboard apparatus	38.9	38.4	38.4	37.6	-	2.2	2.7	1.4	1.4	-
362	Electrical industrial apparatus	40.6	40.0	38.9	38.4	-	2.8	2.7	1.7	1.8	-
3621	Motors and generators	40.8	39.8	39.9	39.7	-	2.9	2.6	1.9	2.2	-
3622	Industrial controls	39.5	39.4	37.6	37.1	-	2.4	2.5	1.4	1.3	-
363	Household appliances	38.9	39.6	38.8	38.4	-	1.8	2.2	1.4	1.4	-
3632	Household refrigerators and freezers	40.5	42.2	39.6	40.8	-	2.7	2.1	1.6	1.8	-
3633	Household laundry equipment	38.8	37.8	38.3	37.8	-	1.1	1.4	.6	.5	-
3634	Electric housewares and fans	38.1	39.4	38.3	37.0	-	1.5	2.4	1.1	1.3	-
364	Electric lighting and wiring equipment	39.7	39.5	38.9	39.0	-	2.0	2.1	1.6	1.6	-
3641	Electric lamps	41.0	41.1	38.9	38.8	-	1.6	2.0	1.5	1.3	-
3643	Current-carrying wiring devices	40.4	39.8	39.4	40.0	-	2.5	2.5	1.8	2.2	-
3644	Noncurrent-carrying wiring devices	40.0	38.9	36.9	39.1	-	2.1	2.4	1.0	1.0	-
3645	Residential lighting fixtures	37.3	38.2	37.3	36.6	-	.9	1.3	1.0	.7	-
365	Radio and TV receiving equipment	39.4	39.7	40.0	39.1	-	1.7	1.6	1.8	1.5	-
3651	Radio and TV receiving sets	39.0	39.5	40.3	39.2	-	1.8	1.5	2.0	1.6	-
366	Communication equipment	40.3	40.6	40.3	39.8	-	2.1	2.3	2.0	1.3	-
3661	Telephone and telegraph apparatus	40.7	41.5	39.8	39.3	-	2.2	2.6	1.6	1.1	-
3662	Radio and TV communication equipment	40.1	40.1	40.6	40.1	-	2.0	2.2	2.2	2.1	-
367	Electronic components and accessories	38.8	39.7	39.6	39.5	-	2.0	2.3	2.3	2.1	-
3671-3	Electronic tubes	39.7	39.4	40.9	40.9	-	1.7	1.7	2.1	1.7	-
3674	Semiconductors and related devices	38.3	40.3	39.6	39.5	-	1.7	2.4	2.5	2.4	-
3679	Electronic components, nec	39.4	39.9	39.9	39.7	-	2.4	2.4	2.3	2.1	-
369	Misc. electrical equipment and supplies	39.9	40.7	39.9	39.3	-	2.1	2.3	1.9	1.4	-
3691	Storage batteries	39.4	41.6	39.2	38.5	-	2.1	2.5	1.6	1.5	-
3694	Engine electrical equipment	39.5	39.7	39.2	38.3	-	2.3	2.1	1.8	1.2	-
37	TRANSPORTATION EQUIPMENT	40.8	40.6	41.6	40.6	40.4	3.5	3.3	3.3	3.0	-
371	Motor vehicles and equipment	41.3	40.9	42.8	41.2	-	3.7	3.1	4.0	3.2	-
3711	Motor vehicles and car bodies	41.8	41.0	43.2	41.7	-	4.1	3.2	3.9	3.5	-
3713	Truck and bus bodies	39.9	40.3	40.9	39.4	-	2.9	2.9	2.6	1.4	-
3714	Motor vehicle parts and accessories	41.3	41.2	43.0	41.2	-	3.6	3.2	4.4	3.3	-
3715	Truck trailers	36.6	38.0	38.1	36.3	-	1.4	1.8	1.0	.6	-
372	Aircraft and parts	40.6	40.5	40.9	40.5	-	3.3	3.4	3.0	2.3	-
3721	Aircraft	40.8	39.8	40.3	40.4	-	2.9	3.1	2.4	2.2	-
3724	Aircraft engines and engine parts	39.4	40.4	40.7	39.9	-	3.2	3.3	3.5	3.2	-
3728	Aircraft equipment, nec	41.4	41.9	42.2	41.3	-	4.1	4.2	3.5	3.7	-
373	Ship and boat building and repairing	40.2	40.3	39.8	39.6	-	3.6	3.8	2.4	2.7	-
3731	Ship building and repairing	40.2	40.3	40.0	-	-	3.6	3.9	2.7	-	-
3732	Boat building and repairing	40.3	40.2	39.1	39.1	-	3.7	3.7	1.5	2.1	-
374	Railroad equipment	38.9	39.4	37.7	-	-	2.2	2.3	1.2	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	\$406.00	\$408.22	\$439.55	\$438.99	-	\$10.00	\$10.03	\$10.88	\$11.33	-
3761	Guided missiles and space vehicles	415.67	416.07	448.84	446.63	-	10.34	10.35	11.11	11.25	-
379	Miscellaneous transportation equipment	300.93	311.52	364.15	358.35	-	7.58	7.73	8.86	8.87	-
3792	Travel trailers and campers	264.32	268.52	294.12	293.38	-	6.76	6.85	7.60	7.69	-
38	INSTRUMENTS AND RELATED PRODUCTS	296.46	305.02	330.85	327.85	\$332.73	7.43	7.55	8.23	8.33	\$8.37
381	Engineering and scientific instruments	322.29	318.33	338.99	343.85	-	7.88	7.86	8.37	8.33	-
382	Measuring and controlling devices	292.40	312.36	334.76	332.98	-	7.31	7.60	8.39	8.56	-
3822	Environmental controls	272.13	277.03	289.17	284.60	-	7.05	7.14	7.65	7.63	-
3823	Process control instruments	315.13	312.60	332.52	333.30	-	7.38	7.39	8.17	8.25	-
3825	Instruments to measure electricity	292.82	339.39	372.30	367.99	-	7.47	8.10	9.17	9.46	-
383	Optical instruments and lenses	322.40	329.11	343.13	332.48	-	8.06	8.29	8.41	8.45	-
384	Medical instruments and supplies	252.70	256.10	277.60	271.21	-	6.43	6.50	7.01	6.93	-
3841	Surgical and medical instruments	252.41	256.64	282.80	270.51	-	6.39	6.40	7.07	6.99	-
3842	Surgical appliances and supplies	254.27	256.47	274.62	271.13	-	6.47	6.61	6.97	6.97	-
385	Ophthalmic goods	221.99	224.47	238.99	230.95	-	5.62	5.64	6.02	6.03	-
386	Photographic equipment and supplies	392.85	398.62	438.01	435.97	-	9.70	9.77	10.58	10.43	-
387	Watches, clocks, and watchcases	221.56	225.76	243.14	239.12	-	5.80	5.73	6.14	6.10	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	229.85	231.84	247.43	244.48	245.88	5.97	5.96	6.41	6.43	6.37
391	Jewelry, silverware, and plated ware	241.16	248.06	256.31	253.82	-	6.38	6.46	6.89	6.86	-
3911	Jewelry, precious metal	235.06	247.03	252.98	248.37	-	6.44	6.57	6.95	6.83	-
393	Musical instruments	223.67	232.62	243.46	249.02	-	5.84	5.98	6.34	6.21	-
394	Toys and sporting goods	215.51	216.54	236.77	231.43	-	5.54	5.51	6.04	5.98	-
3942, 4	Dolls, games, toys, and children's vehicles	201.40	206.70	221.91	219.79	-	5.30	5.30	5.69	5.65	-
3949	Sporting and athletic goods, nec	231.60	227.13	251.62	241.15	-	5.79	5.75	6.37	6.28	-
395	Pens, pencils, office and art supplies	243.58	248.47	266.64	264.92	-	6.12	6.12	6.60	6.53	-
396	Costume jewelry and notions	192.51	195.83	209.88	203.87	-	5.12	5.14	5.48	5.54	-
3961	Costume jewelry	177.14	180.42	198.40	187.88	-	4.84	4.85	5.14	5.19	-
399	Miscellaneous manufactures	248.30	249.23	261.59	260.60	-	6.50	6.44	6.83	6.84	-
3993	Signs and advertising displays	264.34	267.42	280.06	277.86	-	6.92	6.91	7.37	7.39	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	295.02	298.45	312.05	314.80	312.82	7.45	7.48	7.90	7.87	7.84
201	Meat products	288.25	295.71	297.11	298.19	-	7.41	7.43	7.56	7.53	-
2011	Meat packing plants	357.30	369.00	367.93	370.12	-	9.00	9.00	9.04	8.94	-
2013	Sausages and other prepared meats	349.27	354.56	365.82	366.62	-	8.82	8.82	9.10	9.12	-
2016	Poultry dressing plants	184.30	187.39	189.21	192.38	-	4.85	4.88	5.10	5.13	-
202	Dairy products	313.17	311.82	336.10	338.97	-	7.51	7.55	8.06	8.03	-
2022	Cheese, natural and processed	286.31	284.80	308.30	313.29	-	7.14	7.12	7.65	7.55	-
2026	Fluid milk	330.00	327.76	351.96	356.15	-	7.82	7.86	8.38	8.33	-
203	Preserved fruits and vegetables	248.62	271.32	266.32	266.17	-	6.56	6.80	6.99	6.85	-
2032	Canned specialties	292.73	304.30	323.21	326.82	-	7.21	7.28	8.02	8.03	-
2033	Canned fruits and vegetables	250.79	285.42	264.49	265.28	-	6.67	7.10	7.11	6.75	-
2037	Frozen fruits and vegetables	229.85	244.38	243.57	253.06	-	6.28	6.25	6.53	6.59	-
204	Grain mill products	353.15	357.84	374.27	393.07	-	8.29	8.40	8.89	9.12	-
2041	Flour and other grain mill products	371.54	381.49	376.70	421.36	-	8.22	8.44	8.72	9.15	-
2048	Prepared feeds, nec	285.78	284.14	302.40	306.24	-	6.60	6.67	7.00	7.04	-
205	Bakery products	303.01	300.99	319.28	320.12	-	7.85	7.90	8.38	8.39	-
2051	Bread, cake, and related products	306.43	305.90	322.43	322.43	-	7.98	8.05	8.53	8.53	-
2052	Cookies and crackers	292.04	288.37	310.44	314.82	-	7.45	7.49	7.96	7.97	-
206	Sugar and confectionery products	294.12	288.68	312.45	320.00	-	7.39	7.29	7.91	7.98	-
2061-3	Cane and beet sugar	379.73	368.94	374.22	380.42	-	8.79	8.58	9.24	9.37	-
2065	Confectionery products	244.72	240.38	268.27	276.19	-	6.44	6.41	6.95	7.01	-
207	Fats and oils	334.05	331.80	354.96	355.58	-	7.86	7.90	8.16	8.25	-
208	Beverages	376.20	368.51	397.85	397.58	-	9.00	9.01	9.68	9.65	-
2082	Malt beverages	539.97	519.78	573.31	579.48	-	12.30	12.23	13.21	13.17	-
2086	Bottled and canned soft drinks	284.13	278.39	296.06	301.43	-	6.83	6.84	7.31	7.37	-
209	Misc. foods and kindred products	246.65	246.51	257.56	270.36	-	6.44	6.47	6.85	6.95	-
21	TOBACCO MANUFACTURES	365.16	354.09	397.44	385.97	365.50	9.46	8.70	10.35	10.32	9.42
211	Cigarettes	423.84	447.69	451.22	435.41	-	10.84	10.84	11.72	11.58	-
22	TEXTILE MILL PRODUCTS	217.80	225.44	220.60	216.71	220.58	5.50	5.65	5.79	5.81	5.82
221	Weaving mills, cotton	228.50	241.57	223.43	215.04	-	5.67	5.95	5.99	5.99	-
222	Weaving mills, synthetics	241.86	249.60	230.35	228.29	-	5.80	6.00	6.11	6.17	-
223	Weaving and finishing mills, wool	228.90	241.12	246.98	238.13	-	5.68	5.81	6.19	6.25	-
224	Narrow fabric mills	196.28	201.68	215.36	214.11	-	5.02	5.08	5.48	5.33	-
225	Knitting mills	193.16	199.16	200.46	200.67	-	5.11	5.20	5.36	5.38	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	40.6	40.7	40.4	39.8	-	3.5	3.4	2.7	2.7	-
3781	Guided missiles and space vehicles	40.2	40.2	40.4	39.7	-	3.5	3.1	2.6	2.6	-
379	Miscellaneous transportation equipment	39.7	40.3	41.1	40.4	-	1.9	2.2	3.6	3.3	-
3792	Travel trailers and campers	39.1	39.2	38.7	38.2	-	2.1	2.1	1.6	1.8	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	39.9	40.4	40.2	39.5	39.8	2.0	2.2	1.7	1.5	-
381	Measuring and controlling devices	40.9	40.5	40.5	40.5	-	3.0	2.7	2.0	1.9	-
382	Environmental controls	40.0	41.1	39.9	38.9	-	1.9	2.1	1.2	1.0	-
3822	Process control instruments	38.6	38.8	37.8	37.3	-	1.6	1.7	.7	.3	-
3823	Instruments to measure electricity	42.7	42.3	40.7	40.4	-	2.7	2.5	1.3	1.2	-
3825	Optical instruments and lenses	39.2	41.9	40.6	38.9	-	1.5	2.0	1.1	.9	-
383	Medical instruments and supplies	40.0	39.7	40.8	39.3	-	2.8	2.4	2.1	1.7	-
384	Surgical and medical instruments	39.3	39.4	39.6	38.8	-	2.0	2.3	2.2	1.7	-
3841	Surgical appliances and supplies	39.5	40.1	40.0	38.7	-	2.0	2.4	2.6	2.0	-
3842	Ophthalmic goods	39.3	38.8	39.4	38.9	-	2.1	2.4	2.0	1.7	-
385	Photographic equipment and supplies	39.5	39.8	39.7	38.3	-	1.3	1.3	1.4	1.1	-
386	Watches, clocks, and watchcases	40.5	40.8	41.4	41.6	-	2.1	2.3	1.9	2.0	-
387	Watches, clocks, and watchcases	38.2	39.4	39.6	39.2	-	1.3	2.0	1.5	1.5	-
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	38.5	38.9	38.6	38.2	38.6	1.5	1.9	1.6	1.2	-
391	Jewelry, precious metal	37.8	38.4	37.2	37.0	-	1.0	1.9	1.2	.4	-
3911	Musical instruments	36.5	37.6	36.4	36.1	-	.8	2.0	1.2	.5	-
393	Toys and sporting goods	38.3	38.9	38.4	40.1	-	.6	1.2	.9	.2	-
394	Dolls, games, toys, and children's vehicles	38.9	39.3	39.2	38.7	-	1.8	2.1	1.5	1.3	-
3942, 4	Sporting and athletic goods, nec	38.0	39.0	39.0	38.9	-	1.4	2.1	1.2	.9	-
3949	Pens, pencils, office and art supplies	40.0	39.5	39.5	38.4	-	2.2	2.1	1.9	1.7	-
395	Costume jewelry and notions	39.8	40.6	40.4	40.2	-	2.0	2.4	1.8	1.3	-
396	Costume jewelry	37.6	38.1	38.3	36.8	-	1.0	1.8	2.2	1.6	-
3961	Miscellaneous manufactures	36.6	37.2	38.6	36.2	-	.7	1.5	2.8	2.4	-
399	Signs and advertising displays	38.2	38.7	38.3	38.1	-	1.8	1.9	1.6	1.4	-
3993	Signs and advertising displays	38.2	38.7	38.0	37.6	-	2.1	2.3	1.8	1.5	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	39.6	39.9	39.5	40.0	39.9	3.7	4.0	3.3	3.8	-
201	Meat packing plants	38.9	39.8	39.3	39.6	-	3.1	3.7	3.3	3.4	-
2011	Sausages and other prepared meats	39.7	41.0	40.7	41.4	-	3.3	4.4	4.0	4.2	-
2013	Poultry dressing plants	39.6	40.2	40.2	40.2	-	3.5	3.7	3.6	3.5	-
2016	Dairy products	38.0	38.4	37.1	37.5	-	2.7	3.0	2.3	2.5	-
202	Cheese, natural and processed	41.7	41.3	41.7	41.9	-	4.1	3.9	4.1	4.4	-
2022	Fluid milk	40.1	40.0	40.3	40.9	-	3.2	3.2	3.3	3.5	-
2026	Preserved fruits and vegetables	42.2	41.7	42.0	42.5	-	4.6	4.3	4.3	4.9	-
203	Canned specialties	37.9	39.9	38.1	38.8	-	3.4	4.6	2.5	4.2	-
2032	Canned fruits and vegetables	40.6	41.8	40.3	40.7	-	2.9	4.9	2.4	3.1	-
2033	Frozen fruits and vegetables	37.6	40.2	37.2	39.3	-	3.6	5.2	2.3	5.0	-
2037	Grain mill products	36.6	39.1	37.3	38.4	-	3.3	4.4	2.3	4.2	-
204	Flour and other grain mill products	42.6	42.6	42.1	43.1	-	5.5	5.6	4.7	5.3	-
2041	Prepared feeds, nec	45.2	45.2	43.2	46.0	-	6.3	5.8	5.2	6.1	-
2048	Bakery products	43.3	42.6	43.2	43.5	-	6.2	5.8	5.6	5.7	-
205	Bread, cake, and related products	38.6	38.1	38.1	38.2	-	3.3	3.1	2.9	3.0	-
2051	Cookies and crackers	38.4	38.0	37.8	37.8	-	3.6	3.3	3.3	3.2	-
2052	Sugar and confectionery products	39.2	38.5	39.0	39.5	-	2.4	2.4	1.8	2.3	-
206	Cane and beet sugar	39.8	39.6	39.5	40.1	-	2.6	2.7	2.5	2.6	-
2061-3	Confectionery products	43.2	43.0	40.5	40.6	-	4.4	3.8	3.7	4.1	-
2065	Fats and oils	38.0	37.5	38.6	39.4	-	1.7	2.1	2.0	2.1	-
207	Beverages	42.5	42.0	43.5	43.1	-	5.4	5.1	5.3	5.2	-
208	Malt beverages	41.8	40.9	41.1	41.2	-	5.0	4.4	4.2	4.1	-
2082	Bottled and canned soft drinks	43.9	42.5	43.4	44.0	-	7.3	6.4	6.1	5.9	-
2086	Misc. foods and kindred products	41.6	40.7	40.5	40.9	-	4.7	4.4	3.9	3.9	-
209	Misc. foods and kindred products	38.3	38.1	37.6	38.9	-	3.4	3.4	2.8	3.3	-
TOBACCO MANUFACTURES											
21	Cigarettes	38.6	40.7	38.4	37.4	38.8	2.1	2.5	1.5	1.4	-
211	Cigarettes	39.1	41.3	38.5	37.6	-	2.4	2.8	1.7	1.5	-
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	39.6	39.9	38.1	37.3	37.9	3.0	3.2	2.1	1.9	-
221	Weaving mills, synthetics	40.3	40.6	37.3	35.9	-	3.5	3.6	2.0	1.3	-
222	Weaving and finishing mills, wool	41.7	41.6	37.7	37.0	-	3.7	3.9	1.9	1.8	-
223	Narrow fabric mills	40.3	41.5	39.9	38.1	-	2.9	4.5	3.5	2.7	-
224	Knitting mills	39.1	39.7	39.3	39.0	-	1.8	2.7	2.0	1.4	-
225	Knitting mills	37.8	38.3	37.4	37.3	-	2.1	2.4	1.9	1.9	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	\$178.23	\$188.48	\$189.81	\$196.70	-	\$4.83	\$4.96	\$5.13	\$5.13	-
2252	Hosiery, nec	187.02	185.17	191.29	191.94	-	4.82	4.86	5.17	5.23	-
2253	Knit outerwear mills	187.99	194.44	194.11	194.18	-	5.04	5.09	5.19	5.22	-
2254	Knit underwear mills	175.78	182.77	179.87	178.52	-	4.91	4.98	5.11	5.13	-
2257	Circular knit fabric mills	227.94	230.29	235.20	231.27	-	5.80	5.92	6.00	5.33	-
228	Textile finishing, except wool	233.38	241.79	248.03	233.12	-	5.82	5.97	6.17	6.20	-
2261	Finishing plants, cotton	229.12	243.61	252.34	238.08	-	5.83	6.06	6.20	6.20	-
2262	Finishing plants, synthetics	247.85	253.59	251.27	227.98	-	6.06	6.17	6.41	6.34	-
227	Floor covering mills	222.51	230.62	227.29	227.02	-	5.72	5.78	5.95	6.07	-
228	Yarn and thread mills	205.92	210.40	209.34	203.29	-	5.20	5.34	5.48	5.45	-
2281	Yarn mills, except wool	207.88	212.12	207.97	202.71	-	5.21	5.37	5.43	5.42	-
2282	Throwing and winding mills	190.08	196.86	196.84	194.35	-	4.95	5.10	5.32	5.31	-
229	Miscellaneous textile goods	249.69	255.85	259.75	255.84	-	6.09	6.18	6.51	6.51	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	177.12	180.05	183.89	183.37	\$184.25	4.92	4.96	5.18	5.18	\$5.19
231	Men's and boys' suits and coats	206.79	206.96	210.27	214.68	-	5.65	5.67	5.89	5.98	-
232	Men's and boys' furnishings	166.05	168.52	174.95	172.90	-	4.50	4.53	4.78	4.75	-
2321	Men's and boys' shirts and nightwear	158.40	164.72	171.77	166.52	-	4.40	4.44	4.63	4.60	-
2327	Men's and boys' separate trousers	169.34	168.18	170.85	174.96	-	4.54	4.57	4.84	4.86	-
2328	Men's and boys' work clothing	168.02	169.67	174.94	171.92	-	4.41	4.43	4.69	4.71	-
233	Women's and misses' outerwear	168.30	171.00	170.67	172.88	-	4.95	5.00	5.11	5.13	-
2331	Women's and misses' blouses and waists	160.65	161.24	165.90	162.05	-	4.67	4.66	4.74	4.63	-
2335	Women's and misses' dresses	165.14	169.44	168.53	175.15	-	5.05	5.15	5.25	5.34	-
2337	Women's and misses' suits and coats	189.89	190.71	186.15	193.87	-	5.52	5.56	5.59	5.77	-
2339	Women's and misses' outerwear, nec	165.55	167.20	167.81	166.07	-	4.73	4.75	4.95	4.87	-
234	Women's and children's undergarments	162.90	167.61	163.10	160.89	-	4.50	4.53	4.66	4.65	-
2341	Women's and children's underwear	161.98	165.84	162.03	159.04	-	4.45	4.47	4.59	4.57	-
2342	Brassieres and allied garments	166.73	174.24	170.02	169.16	-	4.71	4.80	5.06	5.08	-
236	Children's outerwear	162.17	165.53	174.33	170.39	-	4.53	4.56	4.75	4.72	-
2361	Children's dresses and blouses	161.17	163.35	169.20	169.22	-	4.54	4.55	4.70	4.74	-
238	Misc. apparel and accessories	181.02	184.26	186.48	183.04	-	4.84	4.94	5.18	5.20	-
239	Misc. fabricated textile products	218.12	223.68	234.08	227.66	-	5.71	5.75	6.16	6.12	-
2391	Curtains and draperies	160.75	170.69	166.61	158.81	-	4.38	4.48	4.68	4.63	-
2392	House furnishing, nec	186.24	191.95	192.65	191.51	-	4.85	4.96	5.11	5.19	-
2396	Automotive and apparel trimmings	402.21	398.67	443.47	425.86	-	9.81	9.70	10.79	10.52	-
26	PAPER AND ALLIED PRODUCTS	370.15	367.61	389.76	392.92	390.10	8.73	8.67	9.28	9.40	9.40
261, 2, 6	Paper and pulp mills	459.33	451.42	477.60	487.51	-	10.23	10.19	10.83	10.93	-
262	Paper mills, except building paper	463.65	452.93	480.34	492.75	-	10.19	10.11	10.77	10.95	-
263	Paperboard mills	456.57	446.61	474.57	470.90	-	10.52	10.22	10.96	11.03	-
264	Misc. converted paper products	310.13	314.00	332.11	332.05	-	7.62	7.64	8.16	8.25	-
2641	Paper coating and glazing	360.81	365.08	386.56	392.08	-	8.55	8.59	9.27	9.33	-
2642	Envelopes	277.11	288.05	298.15	294.84	-	6.98	7.06	7.51	7.56	-
2643	Bags, except textile bags	290.80	296.70	312.94	311.89	-	7.27	7.29	7.67	7.72	-
265	Paperboard containers and boxes	313.88	316.58	333.34	332.09	-	7.60	7.61	8.15	8.22	-
2651	Folding paperboard boxes	324.73	321.68	339.89	337.39	-	7.75	7.77	8.29	8.31	-
2653	Corrugated and solid fiber boxes	328.34	338.40	352.31	350.38	-	7.95	8.00	8.51	8.63	-
2654	Sanitary food containers	302.87	298.50	316.65	326.04	-	7.06	7.04	7.78	7.90	-
27	PRINTING AND PUBLISHING	305.04	309.38	319.55	321.77	324.12	8.20	8.25	8.66	8.72	8.70
271	Newspapers	278.22	282.74	291.61	292.60	-	8.33	8.39	8.81	8.84	-
272	Periodicals	285.67	290.63	323.47	322.34	-	7.70	7.75	8.79	8.88	-
273	Books	280.49	294.52	293.97	299.89	-	7.54	7.63	8.01	8.04	-
2731	Book publishing	269.35	284.93	285.07	288.77	-	7.26	7.42	7.81	7.89	-
2732	Book printing	293.59	305.75	303.69	313.62	-	7.85	7.86	8.23	8.21	-
274	Miscellaneous publishing	257.40	274.54	292.47	293.63	-	7.15	7.40	7.87	7.83	-
275	Commercial printing	329.56	333.68	341.00	345.85	-	8.56	8.60	8.95	9.03	-
2751	Commercial printing, letterpress	306.32	308.77	318.85	325.56	-	8.04	8.02	8.48	8.53	-
2752	Commercial printing, lithographic	340.17	345.15	350.21	353.28	-	8.79	8.85	9.12	9.20	-
276	Manifold business forms	337.42	330.89	344.92	344.57	-	8.17	8.17	8.71	8.79	-
278	Blankbooks and bookbinding	241.64	240.14	258.62	256.28	-	6.26	6.27	6.70	6.73	-
279	Printing trade services	381.38	392.43	403.39	405.96	-	10.17	10.30	10.56	10.49	-
28	CHEMICALS AND ALLIED PRODUCTS	380.14	380.47	406.96	407.41	403.40	9.16	9.19	9.95	10.31	10.01
281	Industrial inorganic chemicals	426.40	425.60	446.07	446.93	-	10.25	10.33	10.96	11.09	-
2819	Industrial inorganic chemicals, nec	422.71	424.73	447.63	450.72	-	10.26	10.41	11.08	11.24	-
282	Plastics materials and synthetics	382.33	379.61	398.69	400.77	-	9.06	9.06	9.82	9.92	-
2821	Plastics materials and resins	413.28	415.38	440.32	440.26	-	9.84	9.89	10.61	10.66	-
2824	Organic fibers, noncellulosic	368.07	360.32	377.34	379.75	-	8.62	8.62	9.41	9.47	-
283	Drugs	334.54	340.30	369.65	366.33	-	8.24	8.30	9.06	9.33	-
2834	Pharmaceutical preparations	314.03	322.40	351.35	348.48	-	7.93	8.06	8.74	8.30	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	36.9	38.0	37.0	37.9	-	2.3	2.3	2.0	1.3	-
2252	Hosiery, nec	38.8	38.1	37.0	36.7	-	2.6	2.2	1.9	1.9	-
2253	Knit outerwear mills	37.3	38.2	37.4	37.2	-	1.8	2.4	1.6	1.3	-
2254	Knit underwear mills	35.8	36.7	35.2	34.8	-	.7	1.4	.7	.7	-
2257	Circular knit fabric mills	39.3	38.9	39.2	39.0	-	2.5	2.4	2.9	2.5	-
226	Textile finishing, except wool	40.1	40.5	40.2	37.6	-	3.2	3.6	2.7	1.3	-
2261	Finishing plants, cotton	39.3	40.2	40.7	38.4	-	2.9	3.3	2.3	1.5	-
2262	Finishing plants, synthetics	40.9	41.1	39.2	35.4	-	3.3	4.0	3.2	1.3	-
227	Floor covering mills	38.9	39.9	38.2	37.4	-	3.7	3.7	1.6	1.8	-
228	Yarn and thread mills	39.6	39.4	38.2	37.3	-	3.2	2.9	2.4	2.0	-
2281	Yarn mills, except wool	39.9	39.5	38.3	37.4	-	3.5	3.1	2.4	2.1	-
2282	Throwing and winding mills	38.4	38.6	37.0	36.6	-	2.5	2.7	1.9	1.8	-
229	Miscellaneous textile goods	41.0	41.4	39.9	39.3	-	3.1	3.8	2.8	2.3	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	36.0	36.3	35.5	35.4	35.5	1.0	1.3	1.1	.9	-
231	Men's and boys' suits and coats	36.6	36.5	35.7	35.9	-	.6	.8	.9	.5	-
232	Men's and boys' furnishings	36.9	37.2	36.6	36.4	-	.9	1.1	1.0	.9	-
2321	Men's and boys' shirts and nightwear	36.0	37.1	37.1	36.2	-	.8	1.0	1.3	.3	-
2327	Men's and boys' separate trousers	37.3	36.8	35.3	36.0	-	1.0	1.1	.8	1.1	-
2328	Men's and boys' work clothing	38.1	38.3	37.3	36.5	-	1.1	1.2	1.2	1.0	-
233	Women's and misses' outerwear	34.0	34.2	33.4	33.7	-	.9	1.1	.9	.9	-
2331	Women's and misses' blouses and waists	34.4	34.6	35.0	35.0	-	.8	1.1	1.0	1.0	-
2335	Women's and misses' dresses	32.7	32.9	32.1	32.8	-	.9	1.0	.7	1.0	-
2337	Women's and misses' suits and coats	34.4	34.3	33.3	33.6	-	.9	1.0	.6	1.0	-
2339	Women's and misses' outerwear, nec	35.0	35.2	33.9	34.1	-	.9	1.2	1.0	.8	-
234	Women's and children's undergarments	36.2	37.0	35.0	34.6	-	1.3	1.5	.9	.7	-
2341	Women's and children's underwear	36.4	37.1	35.3	34.8	-	1.3	1.5	1.0	.7	-
2342	Brassieres and allied garments	35.4	36.3	33.6	33.3	-	1.1	1.5	.6	.5	-
236	Children's outerwear	35.8	36.3	36.7	36.1	-	1.0	1.8	1.3	1.0	-
2361	Children's dresses and blouses	35.5	35.9	36.0	35.7	-	1.1	1.3	.9	1.1	-
238	Misc. apparel and accessories	37.4	37.3	36.0	35.2	-	1.4	1.6	.9	.8	-
239	Misc. fabricated textile products	38.2	38.9	38.0	37.2	-	1.8	2.1	2.0	1.3	-
2391	Curtains and draperies	36.7	38.1	35.6	34.3	-	.6	1.4	1.4	.7	-
2392	House furnishings, nec	38.4	38.7	37.7	36.9	-	2.0	2.1	1.5	1.1	-
2396	Automotive and apparel trimmings	41.0	41.1	41.1	40.1	-	3.2	2.8	4.2	2.5	-
26	PAPER AND ALLIED PRODUCTS	42.4	42.4	42.0	41.8	41.5	4.6	4.5	3.9	4.0	-
261, 2, 6	Paper and pulp mills	44.9	44.3	44.1	44.4	-	6.9	6.2	5.7	5.0	-
262	Paper mills, except building paper	45.5	44.8	44.6	45.0	-	7.2	6.4	5.8	6.1	-
263	Paperboard mills	43.4	43.7	43.3	42.5	-	7.4	6.8	6.3	6.0	-
264	Misc. converted paper products	40.7	41.1	40.7	40.2	-	2.7	2.9	2.4	2.4	-
2641	Paper coating and glazing	42.2	42.5	41.7	41.8	-	3.0	3.2	2.3	2.2	-
2642	Envelopes	39.7	40.8	39.7	39.0	-	1.9	2.8	1.8	1.7	-
2643	Bags, except textile bags	40.0	40.7	40.8	40.4	-	2.5	3.0	2.6	2.5	-
265	Paperboard containers and boxes	41.3	41.6	40.9	40.4	-	3.4	3.8	3.0	3.1	-
2651	Folding paperboard boxes	41.9	41.4	41.0	40.6	-	3.9	3.8	2.8	3.0	-
2653	Corrugated and solid fiber boxes	41.3	42.3	41.4	40.6	-	3.5	4.3	3.5	3.5	-
2654	Sanitary food containers	42.9	42.4	40.7	41.8	-	3.4	3.5	2.9	3.4	-
27	PRINTING AND PUBLISHING	37.2	37.5	36.9	36.9	37.0	2.3	2.6	2.0	2.0	-
271	Newspapers	33.4	33.7	33.1	33.1	-	1.3	1.6	1.3	1.2	-
272	Periodicals	37.1	37.5	36.8	36.3	-	1.8	2.3	2.0	1.8	-
273	Books	37.2	38.6	36.7	37.3	-	1.9	2.5	1.2	1.7	-
2731	Book publishing	37.1	38.4	36.5	36.6	-	.9	1.7	.9	1.0	-
2732	Book printing	37.4	38.9	36.9	38.2	-	2.9	3.4	1.6	2.6	-
274	Miscellaneous publishing	36.0	37.1	37.4	37.5	-	.7	2.0	1.4	1.2	-
275	Commercial printing	38.5	38.8	38.1	38.3	-	2.9	3.1	2.4	2.5	-
2751	Commercial printing, letterpress	38.1	38.5	37.6	37.9	-	2.4	2.3	2.0	2.0	-
2752	Commercial printing, lithographic	38.7	39.0	38.4	38.4	-	3.1	3.5	2.5	2.5	-
276	Manifold business forms	41.3	40.5	39.6	39.2	-	3.7	3.2	2.2	2.4	-
278	Blankbooks and bookbinding	38.6	38.3	38.6	37.8	-	1.7	1.6	1.3	1.3	-
279	Printing trade service	37.5	38.1	38.2	38.7	-	3.6	3.8	3.3	3.7	-
28	CHEMICALS AND ALLIED PRODUCTS	41.5	41.4	40.9	40.7	40.3	3.2	3.3	2.8	2.7	-
281	Industrial inorganic chemicals	41.6	41.2	40.7	40.3	-	3.4	3.3	3.0	2.7	-
2819	Industrial inorganic chemicals, nec	41.2	40.8	40.4	40.1	-	3.2	3.1	3.0	2.3	-
282	Plastics materials and synthetics	42.2	41.9	40.6	40.4	-	3.7	3.6	2.6	2.7	-
2821	Plastics materials and resins	42.0	42.0	41.5	41.3	-	4.1	4.4	3.4	3.4	-
2824	Organic fibers, noncellulosic	42.7	41.8	40.1	40.1	-	3.5	3.2	2.1	2.2	-
283	Drugs	40.6	41.0	40.8	40.3	-	2.5	2.7	2.6	2.4	-
2834	Pharmaceutical preparations	39.6	40.0	40.2	39.6	-	2.4	2.7	2.5	2.3	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982F	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982F
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$336.07	\$339.76	\$377.71	\$366.53	-	\$8.36	\$8.41	\$9.19	\$9.05	-
2841	Soap and other detergents	457.87	461.49	515.91	496.78	-	10.98	10.91	11.86	11.80	-
2844	Toilet preparations	253.76	251.55	287.17	283.02	-	6.49	6.50	7.27	7.22	-
2842, 3	Polishing, sanitation, and finishing preparations	334.94	347.30	358.16	356.13	-	8.27	8.45	8.80	8.75	-
285	Paints and allied products	325.99	324.81	358.35	354.40	-	7.99	8.10	8.87	8.35	-
286	Industrial organic chemicals	464.83	457.69	497.70	499.45	-	10.81	10.82	11.85	11.92	-
2885	Cyclic crudes and intermediates	431.38	421.82	467.87	476.21	-	10.15	10.14	11.22	11.42	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	476.50	470.73	507.73	507.36	-	11.03	11.05	12.06	12.08	-
287	Agricultural chemicals	378.84	383.66	398.94	411.16	-	9.02	9.07	9.59	9.85	-
289	Miscellaneous chemical products	349.25	346.42	372.78	377.46	-	8.56	8.47	9.25	9.32	-
29	PETROLEUM AND COAL PRODUCTS	499.49	486.76	553.83	545.60	\$550.12	11.43	11.32	12.53	12.40	\$12.39
291	Petroleum refining	539.00	520.99	600.32	588.74	-	12.25	12.06	13.46	13.35	-
295	Paving and roofing materials	382.37	387.10	409.03	424.80	-	8.77	8.94	9.36	9.44	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	286.48	292.09	306.36	302.97	302.15	7.18	7.23	7.64	7.67	7.62
301	Tires and inner tubes	460.91	474.24	478.88	471.47	-	11.16	11.40	11.68	11.57	-
302	Rubber and plastics footwear	184.51	175.96	200.46	183.87	-	4.78	4.73	5.14	5.01	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	324.06	327.54	335.79	323.95	-	7.79	7.95	8.19	8.15	-
306	Fabricated rubber products, nec	264.37	271.88	291.85	286.60	-	6.71	6.78	7.26	7.33	-
307	Miscellaneous plastics products	261.88	265.58	278.50	277.69	-	6.58	6.59	6.98	7.03	-
31	LEATHER AND LEATHER PRODUCTS	181.41	183.39	196.71	190.63	193.14	4.97	4.97	5.36	5.31	5.38
311	Leather tanning and finishing	253.89	261.62	287.43	273.67	-	6.51	6.59	7.15	7.09	-
314	Footwear, except rubber	172.44	174.36	186.58	179.12	-	4.79	4.79	5.14	5.05	-
3143	Men's footwear, except athletic	183.63	185.87	196.74	185.50	-	4.99	5.01	5.39	5.27	-
3144	Women's footwear, except athletic	165.67	167.08	183.32	177.56	-	4.68	4.68	5.05	5.03	-
316	Luggage	191.44	197.84	205.92	201.35	-	5.16	5.22	5.72	5.54	-
317	Handbags and personal leather goods	173.59	173.43	181.06	185.10	-	4.73	4.70	4.92	5.03	-
-	TRANSPORTATION AND PUBLIC UTILITIES	383.90	389.87	399.84	404.24	410.15	9.67	9.87	10.20	10.26	10.41
4011	RAILROAD TRANSPORTATION: Class I railroads ²	468.86	447.72	491.12	-	-	10.56	10.66	11.29	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	260.81	268.05	243.85	270.45	-	7.03	7.11	7.13	7.43	-
411	Local and suburban transportation	292.13	295.32	303.34	309.20	-	7.34	7.31	7.66	7.73	-
413	Intercity highway transportation	408.81	429.75	416.88	442.50	-	10.96	11.25	11.58	11.80	-
42	TRUCKING AND WAREHOUSING	391.04	393.61	399.38	395.01	-	9.95	9.99	10.32	10.25	-
421, 3	Trucking and trucking terminals	399.91	403.30	407.12	402.33	-	10.15	10.21	10.52	10.45	-
422	Public warehousing	267.19	269.40	285.18	290.61	-	6.94	6.89	7.35	7.49	-
46	PIPE LINES, EXCEPT NATURAL GAS	490.75	482.72	529.91	529.13	-	11.23	11.20	12.41	12.45	-
48	COMMUNICATION	366.16	393.20	395.40	396.40	-	9.20	9.83	10.01	10.01	-
481	Telephone communication	377.88	413.70	414.16	416.40	-	9.40	10.24	10.38	10.41	-
4817	Switchboard operating employees ¹	261.17	284.97	293.72	301.88	-	7.57	8.26	8.69	8.75	-
4818	Line construction employees ⁴	480.27	524.92	514.03	512.74	-	10.94	11.93	12.01	11.98	-
483	Radio and television broadcasting	314.80	314.12	331.51	322.61	-	8.35	8.31	8.77	8.59	-
49	ELECTRIC, GAS, AND SANITARY SERVICES ..	408.62	410.18	440.50	442.98	-	9.87	9.98	10.64	10.70	-
491	Electric services	422.52	418.74	453.18	455.62	-	10.06	10.09	10.79	10.90	-
492	Gas production and distribution	368.34	369.77	391.53	394.79	-	9.05	9.13	9.62	9.70	-
493	Combination utility services	451.96	462.89	498.95	498.08	-	10.97	11.29	12.14	12.05	-
495	Sanitary services	319.09	323.14	347.21	353.05	-	7.84	7.92	8.51	8.59	-
-	WHOLESALE AND RETAIL TRADE	193.85	194.83	199.02	202.12	203.07	5.91	5.94	6.20	6.20	6.21
50, 51	WHOLESALE TRADE	294.10	296.06	309.19	311.92	313.08	7.58	7.65	8.01	8.05	8.09
50	WHOLESALE TRADE-DURABLE GOODS	294.84	298.72	310.05	311.61	-	7.56	7.64	7.95	7.99	-
501	Motor vehicles and automotive equipment	273.00	272.69	278.31	279.75	-	7.00	7.01	7.21	7.21	-
502	Furniture and home furnishings	259.61	261.85	273.79	273.06	-	6.96	7.02	7.36	7.35	-
503	Lumber and construction materials	307.72	312.84	308.10	313.21	-	7.83	7.94	7.90	7.99	-
504	Sporting goods, toys, and hobby goods	297.33	299.30	317.81	323.76	-	7.95	7.96	8.43	8.52	-

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				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	40.2	40.4	41.1	40.5	-	2.4	3.2	2.8	2.4	-
2841	Soap and other detergents	41.7	42.3	43.5	42.1	-	3.8	4.4	4.1	3.7	-
2844	Toilet preparations	39.1	38.7	39.5	39.2	-	1.5	2.3	2.0	1.6	-
2842, 3	Polishing, sanitation, and finishing preparations	40.5	41.1	40.7	40.7	-	2.3	3.2	2.6	2.3	-
285	Paints and allied products	40.8	40.1	40.4	40.0	-	2.9	2.7	2.6	2.5	-
286	Industrial organic chemicals	43.0	42.3	42.0	41.9	-	4.0	3.8	3.0	3.2	-
2865	Cyclic crudes and intermediates	42.5	41.6	41.7	41.7	-	3.8	3.4	2.5	2.4	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	43.2	42.6	42.1	42.0	-	4.1	3.9	3.2	3.4	-
287	Agricultural chemicals	42.0	42.3	41.6	41.7	-	4.0	4.0	3.4	3.5	-
289	Miscellaneous chemical products	40.8	40.9	40.3	40.5	-	2.8	3.0	2.4	2.4	-
29	PETROLEUM AND COAL PRODUCTS	43.7	43.0	44.2	44.0	44.4	3.9	3.8	4.1	4.1	-
291	Petroleum refining	44.0	43.2	44.6	44.1	-	3.6	3.4	3.7	3.4	-
295	Paving and roofing materials	43.6	43.3	43.7	45.0	-	5.6	5.9	6.4	7.5	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	39.9	40.4	40.1	39.5	39.6	3.0	3.2	2.8	2.5	-
301	Tires and inner tubes	41.3	41.6	41.0	40.4	-	2.9	3.7	2.6	2.9	-
302	Rubber and plastics footwear	38.6	37.2	39.0	36.7	-	2.5	2.0	1.9	1.3	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	41.6	41.2	41.0	39.7	-	3.1	3.1	2.2	2.9	-
306	Fabricated rubber products, nec	39.4	40.1	40.2	39.1	-	2.5	2.7	2.5	2.3	-
307	Miscellaneous plastics products	39.8	40.3	39.9	39.5	-	3.2	3.2	2.9	2.7	-
31	LEATHER AND LEATHER PRODUCTS	36.5	36.9	36.7	35.9	35.9	1.3	1.5	1.6	1.2	-
311	Leather tanning and finishing	39.0	39.7	40.2	38.6	-	2.3	2.9	3.1	2.2	-
314	Footwear, except rubber	36.0	36.4	36.3	35.4	-	1.1	1.2	1.5	1.1	-
3143	Men's footwear, except athletic	36.8	37.1	36.5	35.2	-	1.1	1.3	1.3	.9	-
3144	Women's footwear, except athletic	35.4	35.7	36.3	35.3	-	1.3	1.2	2.0	1.4	-
316	Luggage	37.1	37.9	36.0	35.7	-	1.1	1.3	2.2	1.9	-
317	Handbags and personal leather goods	36.7	36.9	36.8	36.8	-	1.6	1.9	1.0	1.4	-
-	TRANSPORTATION AND PUBLIC UTILITIES	39.7	39.5	39.2	39.4	39.4	-	-	-	-	-
4011	RAILROAD TRANSPORTATION: Class I railroads ²	44.4	42.0	43.5	-	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	37.1	37.7	34.2	36.4	-	-	-	-	-	-
411	Local and suburban transportation	39.8	40.4	39.6	40.0	-	-	-	-	-	-
413	Intercity highway transportation	37.3	38.2	36.0	37.5	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	39.3	39.4	38.7	38.5	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	39.4	39.5	38.7	38.5	-	-	-	-	-	-
422	Public warehousing	38.5	39.1	38.8	38.8	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	43.7	43.1	42.7	42.5	-	-	-	-	-	-
48	COMMUNICATION	39.8	40.0	39.5	39.6	-	-	-	-	-	-
481	Telephone communication	40.2	40.4	39.9	40.0	-	-	-	-	-	-
4817	Switchboard operating employees ³	34.5	34.5	33.8	34.5	-	-	-	-	-	-
4818	Line construction employees ⁴	43.9	44.0	42.8	42.8	-	-	-	-	-	-
483	Radio and television broadcasting	37.7	37.8	37.8	37.6	-	-	-	-	-	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.4	41.1	41.4	41.4	-	-	-	-	-	-
491	Electric services	42.0	41.5	42.0	41.8	-	-	-	-	-	-
492	Gas production and distribution	40.7	40.5	40.7	40.7	-	-	-	-	-	-
493	Combination utility services	41.2	41.0	41.1	41.3	-	-	-	-	-	-
495	Sanitary services	40.7	40.8	40.8	41.1	-	-	-	-	-	-
-	WHOLESALE AND RETAIL TRADE	32.8	32.8	32.1	32.6	32.7	-	-	-	-	-
50, 51	WHOLESALE TRADE	38.8	38.7	38.6	38.7	38.7	-	-	-	-	-
50	WHOLESALE TRADE-DURABLE GOODS	39.0	39.1	39.0	39.0	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	39.0	38.9	38.6	38.8	-	-	-	-	-	-
502	Furniture and home furnishings	37.3	37.3	37.2	37.1	-	-	-	-	-	-
503	Lumber and construction materials	39.3	39.4	39.0	39.2	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.4	37.6	37.7	38.0	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	\$346.81	\$350.06	\$351.92	\$352.69	-	\$8.78	\$8.84	\$9.07	\$9.37	-
506	Electrical goods	306.92	316.61	334.62	338.58	-	7.89	8.16	8.45	8.55	-
507	Hardware, plumbing, and heating equipment	272.38	276.83	287.90	289.48	-	7.02	7.08	7.42	7.43	-
508	Machinery, equipment, and supplies	306.92	309.68	322.65	323.87	-	7.77	7.84	8.21	8.22	-
509	Miscellaneous durable goods	236.38	243.04	249.48	249.75	-	6.27	6.28	6.60	6.66	-
51	WHOLESALE TRADE-NONDURABLE GOODS	291.84	291.46	307.42	312.09	-	7.60	7.67	8.09	8.17	-
511	Paper and paper products	313.76	314.50	327.25	329.87	-	8.48	8.50	8.75	8.82	-
512	Drugs, proprietaries, and sundries	300.47	306.90	330.48	332.76	-	7.97	8.25	8.86	8.85	-
513	Apparel, piece goods, and notions	250.61	252.59	265.72	266.79	-	6.81	6.79	7.32	7.37	-
514	Groceries and related products	293.33	292.61	306.75	313.43	-	7.56	7.66	8.03	8.12	-
516	Chemicals and allied products	345.32	350.24	369.97	376.74	-	8.90	9.05	9.56	9.65	-
517	Petroleum and petroleum products	363.89	362.46	386.97	386.40	-	9.12	9.13	9.65	9.55	-
518	Beer, wine, and distilled beverages	337.27	333.37	352.91	357.19	-	8.97	9.01	9.59	9.68	-
519	Miscellaneous nondurable goods	239.94	239.23	251.25	253.75	-	6.20	6.23	6.56	6.65	-
52-59	RETAIL TRADE	161.92	162.23	164.65	167.93	\$168.48	5.24	5.25	5.47	5.47	\$5.47
52	BUILDING MATERIALS AND GARDEN SUPPLIES	213.38	216.00	217.18	223.94	-	5.69	5.76	5.95	6.02	-
521	Lumber and other building materials	234.04	235.59	236.22	240.86	-	5.94	6.01	6.20	6.24	-
525	Hardware stores	174.38	175.58	180.60	185.15	-	5.04	5.06	5.25	5.25	-
53	GENERAL MERCHANDISE STORES	154.80	154.28	157.63	162.00	-	5.16	5.16	5.38	5.47	-
531	Department stores	159.67	159.13	162.64	168.00	-	5.34	5.34	5.57	5.63	-
533	Variety stores	125.50	125.04	129.21	130.80	-	4.24	4.21	4.38	4.35	-
539	Misc. general merchandise stores	131.94	132.25	131.81	136.16	-	4.27	4.28	4.35	4.35	-
54	FOOD STORES	219.52	219.74	226.61	230.55	-	6.86	6.91	7.24	7.25	-
541	Grocery stores	228.30	229.12	236.25	240.64	-	7.09	7.16	7.50	7.52	-
546	Retail bakeries	144.83	145.53	146.58	147.41	-	4.96	4.90	5.02	4.93	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	233.55	234.46	235.99	236.76	-	6.13	6.17	6.31	6.28	-
551, 2	New and used car dealers	273.74	277.59	279.65	278.13	-	7.11	7.21	7.34	7.33	-
553	Auto and home supply stores	236.57	231.74	239.57	246.85	-	5.77	5.68	5.93	6.03	-
554	Gasoline service stations	175.69	175.21	178.11	179.86	-	4.84	4.84	5.06	5.01	-
56	APPAREL AND ACCESSORY STORES	136.00	136.16	138.51	141.14	-	4.61	4.60	4.86	4.85	-
561	Men's and boys' clothing and furnishings	176.04	169.68	174.49	177.65	-	5.40	5.19	5.47	5.57	-
562	Women's ready-to-wear stores	121.26	122.82	123.40	127.29	-	4.30	4.34	4.52	4.53	-
565	Family clothing stores	131.24	132.73	140.92	144.85	-	4.51	4.53	4.91	4.91	-
566	Shoe stores	138.95	138.82	141.15	140.01	-	4.71	4.69	4.97	4.93	-
57	FURNITURE AND HOME FURNISHINGS STORES	209.21	210.14	213.62	215.14	-	5.91	5.97	6.21	6.23	-
571	Furniture and home furnishings stores	209.09	210.70	212.44	213.28	-	5.94	6.02	6.23	6.20	-
572	Household appliance stores	224.90	221.08	233.69	233.89	-	6.23	6.21	6.62	6.57	-
573	Radio, television, and music stores	199.09	202.00	203.55	209.40	-	5.64	5.69	5.90	6.03	-
58	EATING AND DRINKING PLACES	106.11	107.29	107.71	109.62	-	3.93	3.93	4.08	4.05	-
59	MISCELLANEOUS RETAIL	163.07	163.01	167.23	169.38	-	5.08	5.11	5.36	5.35	-
591	Drug stores and proprietary stores	141.47	142.03	147.75	151.59	-	4.70	4.75	5.06	5.07	-
594	Miscellaneous shopping goods stores	152.00	150.10	151.39	155.19	-	4.78	4.75	4.98	4.99	-
596	Nonstore retailers	197.57	198.58	205.13	204.89	-	5.88	5.91	6.16	6.19	-
598	Fuel and ice dealers	256.99	259.46	265.88	268.71	-	6.71	6.81	7.09	7.09	-
599	Retail stores, nec	170.65	170.17	180.94	178.95	-	5.14	5.22	5.45	5.39	-
-	FINANCE, INSURANCE, AND REAL ESTATE	227.96	232.23	242.23	245.75	248.98	6.28	6.38	6.71	6.77	6.84
60	BANKING	195.28	200.75	209.30	212.86	-	5.35	5.47	5.75	5.83	-
802	Commercial and stock savings banks	192.36	197.98	206.02	209.39	-	5.27	5.38	5.66	5.69	-
61	CREDIT AGENCIES OTHER THAN BANKS	205.53	210.73	218.73	221.03	-	5.57	5.68	5.96	5.99	-
612	Savings and loan associations	191.46	193.98	198.55	201.10	-	5.26	5.30	5.50	5.54	-
614	Personal credit institutions	204.95	211.86	222.60	224.92	-	5.48	5.68	6.00	6.03	-
63	INSURANCE CARRIERS	262.92	266.70	282.68	285.67	-	7.03	7.15	7.64	7.73	-
631	Life insurance	280.12	284.26	291.24	293.46	-	7.45	7.56	7.85	7.91	-
632	Medical service and health insurance	243.65	247.03	269.35	270.44	-	6.48	6.57	7.26	7.27	-
633	Fire, marine, and casualty insurance	252.71	255.39	277.82	281.92	-	6.83	6.94	7.57	7.64	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	39.5	39.6	38.8	38.8	-	-	-	-	-	
506	Electrical goods	38.9	38.8	39.6	39.6	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment	38.8	39.1	38.8	38.7	-	-	-	-	-	
508	Machinery, equipment, and supplies	39.5	39.5	39.3	39.4	-	-	-	-	-	
509	Miscellaneous durable goods	37.7	38.7	37.8	37.5	-	-	-	-	-	
51	WHOLESALE TRADE-NONDURABLE GOODS ..	38.4	38.0	38.0	38.2	-	-	-	-	-	
511	Paper and paper products	37.0	37.0	37.4	37.4	-	-	-	-	-	
512	Drugs, proprietaries, and sundries	37.7	37.2	37.3	37.6	-	-	-	-	-	
513	Apparel, piece goods, and notions	36.8	37.2	36.3	36.2	-	-	-	-	-	
514	Groceries and related products	38.8	38.2	38.2	38.6	-	-	-	-	-	
516	Chemicals and allied products	38.8	38.7	38.7	39.0	-	-	-	-	-	
517	Petroleum and petroleum products	39.9	39.7	40.1	40.0	-	-	-	-	-	
518	Beer, wine, and distilled beverages	37.6	37.0	36.8	36.9	-	-	-	-	-	
519	Miscellaneous nondurable goods	38.7	38.4	38.3	38.1	-	-	-	-	-	
52-59	RETAIL TRADE	30.9	30.9	30.1	30.7	30.8	-	-	-	-	
52	BUILDING MATERIALS AND GARDEN SUPPLIES	37.5	37.5	36.5	37.2	-	-	-	-	-	
521	Lumber and other building materials	39.4	39.2	38.1	38.6	-	-	-	-	-	
525	Hardware stores	34.6	34.7	34.4	35.2	-	-	-	-	-	
53	GENERAL MERCHANDISE STORES	30.0	29.9	29.3	30.0	-	-	-	-	-	
531	Department stores	29.9	29.8	29.2	30.0	-	-	-	-	-	
533	Variety stores	29.6	29.7	29.5	30.0	-	-	-	-	-	
539	Misc. general merchandise stores	30.9	30.9	30.3	31.3	-	-	-	-	-	
54	FOOD STORES	32.0	31.8	31.3	31.8	-	-	-	-	-	
541	Grocery stores	32.2	32.0	31.5	32.0	-	-	-	-	-	
546	Retail bakeries	29.2	29.7	29.2	29.6	-	-	-	-	-	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	38.1	38.0	37.4	37.7	-	-	-	-	-	
551, 2	New and used car dealers	38.5	38.5	38.1	38.1	-	-	-	-	-	
553	Auto and home supply stores	41.0	40.8	40.4	40.6	-	-	-	-	-	
554	Gasoline service stations	36.3	36.2	35.2	35.9	-	-	-	-	-	
56	APPAREL AND ACCESSORY STORES	29.5	29.6	28.5	29.1	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	32.6	32.5	31.9	32.3	-	-	-	-	-	
562	Women's ready-to-wear stores	28.2	28.3	27.3	28.1	-	-	-	-	-	
565	Family clothing stores	29.1	29.3	28.7	29.5	-	-	-	-	-	
566	Shoe stores	29.5	29.6	28.4	28.4	-	-	-	-	-	
57	FURNITURE AND HOME FURNISHINGS STORES	35.4	35.2	34.4	34.7	-	-	-	-	-	
571	Furniture and home furnishings stores	35.2	35.0	34.1	34.4	-	-	-	-	-	
572	Household appliance stores	36.1	35.6	35.3	35.6	-	-	-	-	-	
573	Radio, television, and music stores	35.3	35.5	34.5	34.9	-	-	-	-	-	
58	EATING AND DRINKING PLACES	27.0	27.3	26.4	27.0	-	-	-	-	-	
59	MISCELLANEOUS RETAIL	32.1	31.9	31.2	31.6	-	-	-	-	-	
591	Drug stores and proprietary stores	30.1	29.9	29.2	29.9	-	-	-	-	-	
594	Miscellaneous shopping goods stores	31.8	31.6	30.4	31.1	-	-	-	-	-	
596	Nonstore retailers	33.6	33.6	33.3	33.1	-	-	-	-	-	
598	Fuel and ice dealers	38.3	38.1	37.5	37.9	-	-	-	-	-	
599	Retail stores, nec	33.2	32.6	33.2	33.2	-	-	-	-	-	
-	FINANCE, INSURANCE, AND REAL ESTATE	36.3	36.4	36.1	36.3	36.4	-	-	-	-	
60	BANKING	36.5	36.7	36.4	36.7	-	-	-	-	-	
602	Commercial and stock savings banks	36.5	36.8	36.4	36.8	-	-	-	-	-	
61	CREDIT AGENCIES OTHER THAN BANKS	36.9	37.1	36.7	36.9	-	-	-	-	-	
612	Savings and loan associations	36.4	36.6	36.1	36.3	-	-	-	-	-	
614	Personal credit institutions	37.4	37.3	37.1	37.3	-	-	-	-	-	
63	INSURANCE CARRIERS	37.4	37.3	37.0	37.1	-	-	-	-	-	
631	Life insurance	37.6	37.6	37.1	37.1	-	-	-	-	-	
632	Medical service and health insurance	37.6	37.6	37.1	37.2	-	-	-	-	-	
633	Fire, marine, and casualty insurance	37.0	36.8	36.7	36.9	-	-	-	-	-	

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				
		July 1981	Aug- 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
-	SERVICES	\$209.85	\$210.89	\$224.35	\$227.07	\$228.39	\$6.34	\$6.41	\$6.84	\$6.85	\$6.90
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	150.55	151.05	152.30	153.50	-	4.81	4.75	5.01	4.92	-
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	162.81	162.32	171.52	171.83	-	4.86	4.86	5.12	5.15	-
723	Beauty shops ²	137.77	140.87	157.86	160.20	-	4.67	4.68	5.21	5.34	-
73	BUSINESS SERVICES	215.16	216.48	227.63	231.99	-	6.52	6.58	6.94	7.03	-
731	Advertising	308.18	319.97	327.96	335.73	-	8.78	9.09	9.11	9.33	-
734	Services to buildings	149.60	147.15	151.99	154.06	-	5.48	5.43	5.65	5.77	-
737	Computer and data processing services	297.75	304.94	310.85	317.58	-	7.94	8.11	8.47	8.55	-
75	AUTO REPAIR, SERVICES, AND GARAGES	249.74	250.64	253.26	254.51	-	6.47	6.51	6.70	6.68	-
753	Automotive repair shops	275.62	276.01	280.47	280.35	-	6.96	6.97	7.21	7.17	-
76	MISCELLANEOUS REPAIR SERVICES	305.63	302.22	308.41	312.80	-	7.66	7.69	7.99	8.00	-
78	MOTION PICTURES	201.37	205.34	224.09	233.45	-	7.08	7.36	8.09	8.22	-
781	Motion picture production and services	412.72	419.10	457.93	481.54	-	10.72	11.00	12.31	12.91	-
79	AMUSEMENT AND RECREATION SERVICES	181.64	185.15	184.20	187.84	-	5.73	5.75	6.00	5.87	-
80	HEALTH SERVICES	211.46	211.86	228.39	234.13	-	6.35	6.42	6.90	7.01	-
801	Offices of physicians	208.98	211.88	218.05	217.92	-	6.47	6.58	6.73	6.91	-
802	Offices of dentists	180.24	183.74	188.94	192.16	-	6.28	6.38	6.70	6.79	-
805	Nursing and personal care facilities	143.78	142.87	151.83	156.49	-	4.55	4.55	4.82	4.85	-
806	Hospitals	237.35	237.01	256.97	265.18	-	6.84	6.91	7.47	7.62	-
81	LEGAL SERVICES	276.58	284.20	296.87	303.63	-	8.04	8.31	8.58	8.75	-
89	MISCELLANEOUS SERVICES	355.30	363.47	395.37	397.56	-	9.35	9.54	10.19	10.22	-
891	Engineering and architectural services	387.44	396.47	429.66	430.85	-	9.96	10.14	10.85	10.83	-
893	Accounting, auditing, and bookkeeping	298.88	305.25	319.41	327.28	-	7.97	8.25	8.45	8.59	-

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 non-supervisory 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.

- 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				
		July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
-	SERVICES	33.1	32.9	32.8	33.1	33.1	-	-	-	-	-
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	31.3	31.8	30.4	31.2	-	-	-	-	-	
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	33.5	33.4	33.5	33.3	-	-	-	-	-	
723	Beauty shops	29.5	30.1	30.3	30.0	-	-	-	-	-	
73	BUSINESS SERVICES	33.0	32.9	32.8	33.0	-	-	-	-	-	
731	Advertising	35.1	35.2	36.0	36.1	-	-	-	-	-	
734	Services to buildings	27.3	27.1	26.9	26.7	-	-	-	-	-	
737	Computer and data processing services	37.5	37.6	36.7	37.1	-	-	-	-	-	
75	AUTO REPAIR, SERVICES, AND GARAGES	38.6	38.5	37.8	38.1	-	-	-	-	-	
753	Automotive repair shops	39.6	39.6	38.9	39.1	-	-	-	-	-	
76	MISCELLANEDUS REPAIR SERVICES	39.9	39.3	38.6	39.1	-	-	-	-	-	
78	MOTION PICTURES	28.4	27.9	27.7	28.4	-	-	-	-	-	
781	Motion picture production and services	38.5	38.1	37.2	37.3	-	-	-	-	-	
79	AMUSEMENT AND RECREATION SERVICES	31.7	32.2	30.7	32.0	-	-	-	-	-	
80	HEALTH SERVICES	33.3	33.0	33.1	33.4	-	-	-	-	-	
801	Offices of physicians	32.3	32.2	32.4	32.0	-	-	-	-	-	
802	Offices of dentists	28.7	28.8	28.2	28.3	-	-	-	-	-	
805	Nursing and personal care facilities	31.6	31.4	31.5	32.2	-	-	-	-	-	
806	Hospitals	34.7	34.3	34.4	34.8	-	-	-	-	-	
81	LEGAL SERVICES	34.4	34.2	34.6	34.7	-	-	-	-	-	
89	MISCELLANEDUS SERVICES	38.0	38.1	38.8	38.9	-	-	-	-	-	
891	Engineering and architectural services	38.9	39.1	39.6	39.6	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	37.5	37.0	37.8	38.1	-	-	-	-	-	

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				
	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
MANUFACTURING	\$7.75	\$7.74	\$8.25	\$8.31	\$8.25
DURABLE GOODS	8.28	8.29	8.81	8.87	8.84
Lumber and wood products	6.91	6.88	7.35	7.39	-
Furniture and fixtures	5.79	5.84	6.18	6.22	-
Stone, clay, and glass products	8.00	8.02	8.48	8.54	-
Primary metal industries	10.39	10.58	11.02	11.08	-
Fabricated metal products	7.94	7.97	8.59	8.63	-
Machinery, except electrical	8.51	8.50	9.02	9.09	-
Electric and electronic equipment	7.45	7.51	7.91	8.00	-
Transportation equipment	10.02	9.97	10.78	10.86	-
Instruments and related products	7.24	7.35	8.06	8.15	-
Miscellaneous manufacturing industries	5.85	5.81	6.28	6.29	-
NONDURABLE GOODS	6.97	6.96	7.46	7.52	7.47
Food and kindred products	7.12	7.12	7.58	7.51	-
Tobacco manufactures	9.21	8.44	10.14	10.13	-
Textile mill products	5.30	5.43	5.64	5.67	-
Apparel and other textile products	4.85	4.88	5.10	5.11	-
Paper and allied products	8.28	8.23	8.86	8.97	-
Printing and publishing	7.95	7.97	8.44	8.48	-
Chemicals and allied products	8.82	8.83	9.62	9.69	-
Petroleum and coal products	10.95	10.85	11.98	11.85	-
Rubber and misc. plastics products	6.92	6.96	7.39	7.43	-
Leather and leather products	4.88	4.88	5.24	5.22	-

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

Industry	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
TOTAL PRIVATE:					
Current dollars	\$257.74	\$259.88	\$267.40	\$269.98	\$271.46
Constant (1977) dollars	170.35	170.64	167.33	167.90	-
MINING:					
Current dollars	439.92	447.30	463.10	465.86	\$458.81
Constant (1977) dollars	290.76	293.70	289.80	289.71	-
CONSTRUCTION:					
Current dollars	407.86	408.41	427.88	435.29	\$437.70
Constant (1977) dollars	269.57	268.16	267.76	273.19	-
MANUFACTURING:					
Current dollars	317.59	320.40	334.05	333.45	\$331.69
Constant (1977) dollars	209.91	210.37	209.04	207.37	-
TRANSPORTATION AND PUBLIC UTILITIES:					
Current dollars	383.90	389.87	399.88	404.24	\$410.15
Constant (1977) dollars	253.73	255.99	250.21	251.39	-
WHOLESALE AND RETAIL TRADE:					
Current dollars	193.85	194.83	199.02	202.12	\$203.07
Constant (1977) dollars	128.12	127.93	124.54	125.70	-
FINANCE, INSURANCE, AND REAL ESTATE:					
Current dollars	227.96	232.23	242.23	245.75	\$248.98
Constant (1977) dollars	150.67	152.48	151.58	152.83	-
SERVICES:					
Current dollars	209.85	210.89	224.35	227.07	\$228.39
Constant (1977) dollars	138.70	138.47	140.39	141.21	-

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	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982P
	Hours				
TOTAL PRIVATE	110.1	110.4	106.4	106.4	105.4
GOODS-PRODUCING	102.6	103.7	93.6	91.9	92.3
MINING	141.6	145.6	130.9	128.1	125.0
CONSTRUCTION	118.8	118.4	107.6	111.4	110.9
MANUFACTURING	97.6	98.9	89.2	86.4	87.2
DURABLE GOODS	97.8	98.0	87.5	84.3	83.5
Lumber and wood products	91.8	91.7	82.7	81.6	82.5
Furniture and fixtures	94.4	98.2	88.1	83.9	88.3
Stone, clay, and glass products	93.8	94.5	83.3	82.5	84.1
Primary metal industries	91.8	91.8	70.9	67.8	66.3
Fabricated metal products	95.4	96.7	84.8	81.3	81.5
Machinery, except electrical	108.4	108.7	94.7	89.8	87.6
Electric and electronic equipment	104.3	105.5	98.0	94.8	94.9
Transportation equipment	89.7	85.8	82.9	80.2	75.0
Instruments and related products	112.4	114.0	108.3	104.8	104.9
Miscellaneous manufacturing industries	89.2	92.8	84.3	80.6	85.4
NONDURABLE GOODS	97.4	100.3	91.6	89.6	92.6
Food and kindred products	100.0	105.9	94.4	99.1	104.2
Tobacco manufactures	89.3	109.5	84.8	80.4	98.5
Textile mill products	87.8	89.7	75.8	72.4	74.6
Apparel and other textile products	92.7	96.9	88.4	81.2	87.3
Paper and allied products	99.4	100.2	93.5	92.2	92.0
Printing and publishing	105.6	106.8	105.0	104.1	104.4
Chemicals and allied products	102.2	101.5	96.0	94.0	93.9
Petroleum and coal products	108.3	105.8	98.0	98.5	100.7
Rubber and misc. plastics products	99.3	102.2	95.1	90.9	92.2
Leather and leather products	87.4	92.8	82.6	72.2	78.9
SERVICE-PRODUCING	114.2	114.1	113.4	114.4	114.3
TRANSPORTATION AND PUBLIC UTILITIES	106.7	105.9	103.6	102.6	102.6
WHOLESALE AND RETAIL TRADE	108.6	108.9	106.9	108.0	107.9
WHOLESALE TRADE	113.2	113.0	110.7	110.5	110.1
RETAIL TRADE	106.9	107.4	105.5	107.0	107.0
FINANCE, INSURANCE, AND REAL ESTATE	119.5	119.6	118.5	119.3	119.6
SERVICES	122.2	121.7	123.2	124.9	124.6

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 workers' on private nonegricultural payrolls by industry division and major manufacturing group—Continued

(1977=100)

Industry division and group	July 1981	Aug. 1981	June 1982	July 1982P	Aug. 1982F
	Payrolls				
TOTAL PRIVATE	151.9	153.6	154.8	155.4	156.0
GOODS-PRODUCING	145.1	147.1	140.3	139.1	139.3
MINING	205.9	212.4	203.9	201.3	197.2
CONSTRUCTION	158.2	159.5	151.6	158.5	158.9
MANUFACTURING	138.0	139.9	133.5	130.2	130.6
DURABLE GOODS	138.2	138.8	130.8	126.7	125.2
Lumber and wood products	128.8	128.3	123.3	122.2	123.3
Furniture and fixtures	128.8	135.5	127.9	122.4	129.4
Stone, clay, and glass products	135.5	136.9	126.9	126.8	129.0
Primary metal industries	133.7	136.3	108.4	104.2	102.6
Fabricated metal products	132.6	135.3	126.8	121.8	122.5
Machinery, except electrical	153.0	153.7	140.2	133.7	130.7
Electric and electronic equipment	148.0	151.2	147.2	143.8	145.2
Transportation equipment	128.6	122.2	127.5	124.0	115.4
Instruments and related products	157.8	162.6	168.3	164.4	165.7
Miscellaneous manufacturing industries	122.2	126.8	123.9	118.1	124.7
NONDURABLE GOODS	137.6	141.9	138.2	136.2	140.0
Food and kindred products	138.6	147.4	138.8	145.2	152.1
Tobacco manufactures	152.5	171.8	158.4	149.7	167.4
Textile mill products	121.3	127.2	110.2	105.6	108.9
Apparel and other textile products	125.9	132.6	126.4	115.9	125.0
Paper and allied products	145.6	145.7	145.6	145.3	145.0
Printing and publishing	141.5	143.9	148.5	148.2	149.3
Chemicals and allied products	145.5	145.0	148.5	146.3	145.2
Petroleum and coal products	158.2	153.0	156.9	156.1	159.2
Rubber and misc. plastics products	137.8	142.8	140.6	134.9	136.1
Leather and leather products	120.3	127.9	122.7	106.3	117.8
SERVICE-PRODUCING	156.7	158.2	165.1	167.0	167.8
TRANSPORTATION AND PUBLIC UTILITIES	147.6	149.6	151.3	150.6	152.8
WHOLESALE AND RETAIL TRADE	150.1	151.3	154.9	156.6	156.6
WHOLESALE TRADE	159.0	160.4	164.4	165.3	165.2
RETAIL TRADE	145.4	146.4	149.9	152.0	152.0
FINANCE, INSURANCE, AND REAL ESTATE	165.3	168.0	175.2	177.8	180.2
SERVICES	166.6	167.8	181.1	184.3	185.0

**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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^p	Aug. ^p
TOTAL PRIVATE	35.2	35.0	35.1	35.1	35.0	34.4	35.0	34.9	34.9	35.0	34.9	34.9	34.9
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	39.9	39.4	39.5	39.3	39.1	37.6	39.4	39.0	39.0	39.1	39.2	39.3	39.0
<i>Overtime hours</i>	3.0	2.7	2.7	2.5	2.4	2.3	2.4	2.3	2.4	2.3	2.4	2.4	2.4
DURABLE GOODS	40.4	39.7	40.0	39.7	39.5	38.2	39.8	39.5	39.5	39.6	39.7	39.7	39.5
<i>Overtime hours</i>	3.0	2.7	2.6	2.4	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.3
Lumber and wood products	38.4	37.6	37.8	37.7	37.7	35.0	37.9	37.6	37.6	38.5	38.7	37.4	39.0
Furniture and fixtures	38.4	37.4	38.0	37.6	37.9	33.6	37.7	37.3	37.4	37.5	37.8	37.8	37.6
Stone, clay, and glass products	40.7	40.3	40.1	40.1	39.7	38.6	40.1	40.0	40.0	40.2	40.4	40.5	40.5
Primary metal industries	40.8	40.6	40.0	39.6	39.2	38.3	39.4	38.8	38.5	38.5	38.9	38.9	39.2
Fabricated metal products	40.4	39.6	40.0	39.7	39.5	38.1	39.7	39.5	39.4	39.5	39.4	39.5	39.2
Machinery, except electrical	41.1	40.3	40.8	40.7	40.4	39.3	40.7	40.2	40.1	39.8	39.5	39.9	39.6
Electric and electronic equipment	40.3	39.7	39.8	39.4	39.5	38.3	39.8	39.4	39.3	39.4	39.5	39.8	39.4
Transportation equipment	41.2	40.1	40.6	40.4	39.7	39.0	40.5	40.4	41.1	41.1	41.6	41.0	40.9
Instruments and related products	40.6	40.4	40.3	40.2	39.9	39.0	39.9	39.9	39.9	40.2	40.2	40.1	40.0
Miscellaneous manufacturing and	38.9	38.4	38.9	39.0	38.5	37.3	38.6	38.6	38.5	38.7	38.6	39.7	38.6
NONDURABLE GOODS	39.2	38.9	38.9	38.7	38.6	36.8	38.9	38.5	38.4	36.5	38.5	33.7	38.4
<i>Overtime hours</i>	2.9	2.8	2.8	2.7	2.6	2.5	2.6	2.5	2.6	2.5	2.5	2.6	2.6
Food and kindred products	39.4	39.3	39.5	39.5	39.8	39.1	40.2	39.5	39.4	39.4	39.5	39.9	39.4
Tobacco manufactures	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Textile mill products	39.8	38.8	39.0	38.7	37.8	32.3	38.3	37.6	37.7	37.9	37.8	37.8	37.8
Apparel and other textile products	35.9	35.2	35.5	35.5	35.1	31.4	35.5	35.0	34.7	34.8	35.1	35.2	35.1
Paper and allied products	42.5	43.0	42.4	42.0	41.8	41.3	42.3	41.8	42.1	41.8	42.0	42.1	41.6
Printing and publishing	37.3	37.1	37.1	37.1	37.1	36.9	37.4	37.1	37.1	36.8	37.1	37.0	36.7
Chemicals and allied products	41.7	42.2	41.5	41.2	41.3	41.0	41.2	40.7	40.7	41.0	41.0	40.9	40.5
Petroleum and coal products	42.9	43.1	42.2	42.5	42.7	44.3	43.5	43.5	44.0	44.1	44.1	43.3	44.3
Rubber and misc. plastics products	40.5	39.7	39.9	39.6	39.4	37.9	40.0	39.6	39.8	39.9	40.1	40.1	39.7
Leather and leather products	36.7	36.2	36.7	36.5	36.1	34.1	35.6	35.8	35.6	35.6	35.7	35.9	35.7
TRANSPORTATION AND PUBLIC UTILITIES	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
WHOLESALE AND RETAIL TRADE	32.2	32.1	32.0	32.1	32.0	31.7	32.0	31.9	31.8	32.0	31.9	31.9	32.0
WHOLESALE TRADE	38.6	38.5	38.4	38.5	38.4	38.1	38.5	38.4	38.3	38.5	38.6	38.5	39.6
RETAIL TRADE	30.1	30.1	29.9	30.0	29.9	29.7	29.9	29.8	29.8	30.0	29.8	29.9	30.0
FINANCE, INSURANCE, AND REAL ESTATE	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
SERVICES	32.5	32.5	32.6	32.6	32.6	32.5	32.6	32.6	32.7	32.7	32.7	32.5	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 workers' on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

(1977=100)

Industry division and group	1981					1982							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^p	Aug. ^p
TOTAL PRIVATE	108.5	107.3	107.7	107.3	106.3	104.3	106.2	105.6	105.2	105.7	104.9	105.0	104.5
GOODS-PRODUCING	102.0	99.8	99.7	98.4	96.3	91.4	95.6	93.9	93.0	93.3	91.9	91.8	90.5
MINING	142.9	142.7	143.9	145.0	145.5	141.6	143.7	142.6	138.4	133.6	128.2	126.9	122.8
CONSTRUCTION	107.4	102.4	106.1	106.9	104.2	96.8	102.9	101.1	100.9	104.5	101.0	102.2	100.9
MANUFACTURING	99.0	97.3	96.4	94.6	92.5	88.0	91.9	90.3	89.3	89.2	88.3	88.2	87.0
DURABLE GOODS	99.6	97.4	96.4	94.0	91.4	87.3	90.6	89.1	87.8	87.8	86.7	86.5	84.8
Lumber and wood products	87.3	84.1	81.8	79.2	77.2	70.9	77.5	76.1	77.6	79.5	79.9	79.8	78.6
Furniture and fixtures	98.7	95.6	95.9	93.1	92.6	80.9	90.0	88.3	87.8	88.1	88.5	88.8	88.5
Stone, clay, and glass products	91.8	90.1	88.2	86.6	83.9	79.3	82.4	81.1	80.2	81.1	80.4	81.2	81.6
Primary metal industries	93.4	92.3	88.6	85.4	81.9	78.5	79.7	77.1	73.6	71.0	70.1	59.0	67.5
Fabricated metal products	97.8	95.4	94.2	91.6	89.3	85.1	88.1	87.0	85.8	85.5	84.0	84.1	82.4
Machinery, except electrical	111.9	109.6	110.4	108.7	106.2	101.6	104.4	101.5	99.2	98.0	94.4	92.6	90.2
Electric and electronic equipment	107.6	105.7	104.9	101.5	99.6	97.2	100.4	98.6	97.8	98.0	97.7	97.7	96.5
Transportation equipment	91.6	88.2	87.6	85.4	80.7	78.3	81.8	81.7	81.4	82.3	82.6	83.4	79.7
Instruments and related products	114.7	114.1	113.0	111.7	110.6	107.3	109.3	108.5	107.4	108.5	107.2	106.9	105.6
Miscellaneous manufacturing and	91.4	90.5	91.1	91.0	89.3	84.8	86.8	86.2	84.2	84.4	83.6	84.4	84.1
NONDURABLE GOODS	98.1	97.2	96.5	95.4	94.1	89.0	93.8	92.0	91.5	91.4	91.0	90.7	90.3
Food and kindred products	96.7	96.3	97.2	97.3	97.7	55.6	98.9	96.8	95.5	96.2	95.3	97.4	95.1
Tobacco manufactures	104.8	98.3	96.1	94.6	92.1	93.6	94.6	93.6	89.6	88.7	91.6	91.2	94.4
Textile mill products	89.3	87.0	85.8	83.9	80.7	67.7	79.9	76.5	78.0	77.0	74.8	74.9	74.3
Apparel and other textile products	95.3	93.4	93.3	92.7	90.5	79.6	90.0	87.7	85.3	85.3	85.8	83.3	85.8
Paper and allied products	99.5	101.6	98.3	96.6	95.2	93.7	95.4	93.9	94.0	92.8	92.5	92.9	91.6
Printing and publishing	107.0	106.7	106.8	106.5	106.5	105.8	107.2	106.7	106.2	105.5	105.9	105.3	104.2
Chemicals and allied products	102.2	103.2	100.9	99.5	98.9	97.6	97.6	96.4	95.3	95.7	94.9	94.2	94.0
Petroleum and coal products	102.5	102.9	100.1	100.0	99.7	98.7	96.1	96.1	96.5	96.7	95.0	94.2	97.9
Rubber and misc. plastics products	103.6	100.6	99.0	96.3	94.3	90.0	94.0	92.3	94.0	94.6	94.9	93.7	93.2
Leather and leather products	91.0	89.3	90.1	88.3	85.1	79.1	79.5	79.5	79.5	78.1	78.4	75.7	77.0
SERVICE-PRODUCING	112.1	112.2	112.1	112.2	111.8	111.4	112.1	112.0	111.9	112.5	112.1	112.2	112.2
TRANSPORTATION AND PUBLIC UTILITIES	105.2	105.2	104.2	104.4	103.6	102.8	103.7	103.3	102.8	102.6	102.2	101.9	101.8
WHOLESALE AND RETAIL TRADE	106.9	106.8	106.2	106.3	105.4	105.2	106.3	105.9	105.5	106.5	105.8	106.1	105.7
WHOLESALE TRADE	112.4	112.0	111.6	111.8	111.0	109.7	110.7	110.2	109.5	110.3	110.0	109.5	109.4
RETAIL TRADE	104.8	104.9	104.1	104.3	103.3	103.4	104.6	104.2	103.9	105.1	104.2	104.7	104.3
FINANCE, INSURANCE, AND REAL ESTATE	117.9	117.4	117.6	117.4	117.4	116.9	116.8	117.1	117.0	117.9	117.4	117.6	117.8
SERVICES	119.3	119.6	120.4	120.6	120.8	120.3	120.9	121.1	121.5	121.8	121.9	121.8	122.2

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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ²	Aug. ³
Hourly Earnings Index ² (1977=100)													
TOTAL PRIVATE (In current dollars).....	140.5	141.4	142.0	143.0	143.5	144.9	145.0	145.4	146.3	147.7	148.1	148.9	149.7
MINING.....	149.5	151.7	151.4	153.4	153.4	156.2	156.0	156.0	156.5	156.8	159.6	161.6	162.0
CONSTRUCTION.....	132.8	133.5	134.7	135.7	136.6	139.9	137.9	138.1	138.7	139.9	139.7	140.5	140.7
MANUFACTURING.....	143.5	144.7	145.4	146.4	146.9	148.9	149.1	149.9	150.8	151.8	152.5	153.3	154.0
TRANSPORTATION AND PUBLIC UTILITIES.....	141.6	141.5	142.3	143.5	144.3	145.5	146.0	146.3	146.5	148.2	149.1	148.3	149.8
WHOLESALE AND RETAIL TRADE.....	139.7	141.0	140.5	141.3	141.7	142.1	142.5	142.8	143.7	145.1	145.2	145.4	145.2
FINANCE, INSURANCE, AND REAL ESTATE.....	140.1	140.4	141.4	142.6	142.0	143.1	143.3	143.8	144.9	148.0	147.2	148.5	150.3
SERVICES.....	139.2	139.7	140.9	142.2	142.6	143.4	143.7	143.9	145.1	146.5	147.3	148.5	149.7
TOTAL PRIVATE (In 1977 dollars) ⁴	92.5	92.1	92.1	92.3	92.3	92.9	92.8	93.3	93.7	93.7	93.1	92.9	-
Average hourly earnings													
TOTAL PRIVATE.....	\$7.34	\$7.37	\$7.40	\$7.45	\$7.46	\$7.52	\$7.53	\$7.54	\$7.59	\$7.65	\$7.67	\$7.70	\$7.73
MINING.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
CONSTRUCTION.....	10.90	10.95	11.06	11.14	11.22	11.52	11.34	11.39	11.43	11.54	11.51	11.55	11.59
MANUFACTURING.....	8.09	8.14	8.16	8.20	8.20	8.38	8.34	8.37	8.44	8.48	8.52	8.56	8.57
TRANSPORTATION AND PUBLIC UTILITIES.....	9.84	9.86	9.89	9.97	10.02	10.09	10.13	10.15	10.18	10.24	10.30	10.27	10.39
WHOLESALE AND RETAIL TRADE.....	5.98	6.03	6.03	6.06	6.08	6.09	6.10	6.12	6.16	6.20	6.22	6.22	6.25
FINANCE, INSURANCE, AND REAL ESTATE.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
SERVICES.....	6.51	6.54	6.58	6.63	6.65	6.71	6.72	6.72	6.80	6.85	6.90	6.95	7.00
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars.....	258.37	257.95	259.74	261.50	261.10	258.69	263.55	263.15	264.89	267.75	267.68	268.73	269.78
1977 dollars ⁴	170.09	168.05	168.44	168.82	167.91	165.93	168.62	168.90	169.69	169.89	168.14	167.75	-

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).

⁵ See footnote 2, table C-6.

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		
	June 1982	July 1982	August 1982	Aug. 1981 to Aug. 1982	June 1982 to July 1982	July 1982 to Aug. 1982
TOTAL	166,516	166,542	166,119	-2.8	0.0	-0.3
PRIVATE SECTOR	135,782	135,989	135,601	-3.0	0.2	-0.3
MINING.....	2,507	2,475	2,387	-11.9	-1.3	-3.6
CONSTRUCTION.....	7,494	7,582	7,493	-5.2	1.2	-1.2
MANUFACTURING.....	38,792	38,682	38,380	-9.2	-0.3	-0.8
DURABLE GOODS.....	23,161	23,088	22,805	-11.2	-0.3	-1.2
NONDURABLE GOODS.....	15,630	15,593	15,575	-6.0	-0.2	-0.1
TRANSPORTATION AND PUBLIC UTILITIES.....	10,342	10,306	10,270	-2.7	-0.4	-0.3
WHOLESALE AND RETAIL TRADE.....	34,317	34,474	34,458	-0.9	0.5	0.0
FINANCE, INSURANCE, AND REAL ESTATE.....	10,092	10,104	10,165	1.1	0.1	0.6
SERVICES.....	32,238	32,367	32,447	2.7	0.4	0.2
GOVERNMENT	30,734	30,554	30,518	-2.0	-0.6	-0.1

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**

**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	1979	1980				1981				1982	
			IV	I	II	III	IV	I	II	III	IV	I	II
BUSINESS SECTOR:													
Output per hour of all persons	98.9	100.7	99.1	99.3	98.2	98.9	99.3	100.7	100.7	101.0	100.2	r100.0	r101.3
Output	106.2	108.9	107.9	107.9	104.7	105.3	107.0	109.1	109.1	109.6	107.8	106.3	r106.4
Hours	107.4	108.2	108.8	108.7	106.6	106.5	107.7	108.3	108.3	108.5	107.5	r106.3	r106.1
Compensation per hour	131.4	144.1	123.0	126.7	130.0	133.1	136.1	140.0	142.5	145.6	148.2	r150.9	r153.0
Real compensation per hour	96.7	96.0	97.8	97.0	96.4	96.9	96.2	96.2	96.4	95.7	95.6	r96.5	r97.1
Unit labor costs	132.9	143.1	124.1	127.6	132.3	134.7	137.0	139.0	141.5	144.2	147.9	r150.9	r153.0
Unit nonlabor payments	119.3	135.2	113.2	116.0	116.2	120.6	124.6	131.8	133.4	137.4	138.3	r136.4	r137.3
Implicit price deflator	128.3	140.4	120.4	123.7	126.9	129.9	132.8	136.5	138.8	141.9	144.6	146.0	r147.7
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	98.5	99.9	98.8	98.7	97.6	98.4	99.2	100.4	100.0	100.0	99.1	r99.2	r99.3
Output	106.3	108.6	108.0	107.9	104.6	105.3	107.3	109.2	109.0	109.1	107.1	106.0	r106.0
Hours	108.0	108.7	109.2	109.3	107.2	107.0	108.2	108.8	109.0	109.1	108.1	r106.8	r106.7
Compensation per hour	130.9	143.6	122.7	126.2	129.3	132.6	135.7	139.5	142.0	145.1	147.7	r150.4	r152.6
Real compensation per hour	96.3	95.7	97.6	96.6	96.0	96.5	95.9	96.0	96.0	95.4	95.3	r96.3	r96.6
Unit labor costs	133.0	143.8	124.1	127.8	132.5	134.7	136.8	139.0	141.9	145.1	149.0	r151.6	r153.7
Unit nonlabor payments	119.1	134.8	111.3	115.2	116.7	120.3	124.4	131.5	132.8	136.7	138.4	r136.7	r137.4
Implicit price deflator	128.3	140.8	119.8	123.6	127.2	129.9	132.7	136.5	138.9	142.3	145.5	146.6	r148.2
MANUFACTURING:													
Output per hour of all persons	101.7	104.5	101.9	102.6	100.4	100.3	103.6	105.2	105.0	105.0	102.8	102.1	r102.2
Output	103.6	105.9	107.9	107.8	101.6	99.9	105.0	106.7	107.5	107.4	102.0	98.2	r96.8
Hours	101.8	101.3	105.9	105.1	101.1	99.6	101.3	101.5	102.4	102.3	99.2	96.2	94.8
Compensation per hour	132.8	146.4	122.6	127.1	130.9	135.2	138.4	142.6	144.9	147.3	150.7	154.7	r157.6
Real compensation per hour	97.7	97.5	97.4	97.3	97.1	98.5	97.8	98.0	97.9	96.8	97.2	99.0	99.7
Unit labor costs	130.6	140.0	120.3	123.9	130.3	134.9	133.6	135.5	138.0	140.3	146.6	151.5	r154.3
DURABLE GOODS													
Output per hour of all persons	100.3	103.4	100.7	101.2	99.2	98.3	102.2	104.2	104.0	103.7	101.5	r100.3	100.4
Output	103.5	106.1	109.3	108.9	101.4	98.8	104.9	107.0	108.2	107.8	101.6	96.8	r95.1
Hours	103.2	102.6	108.5	107.6	102.2	100.4	102.7	102.7	104.0	103.9	100.0	96.5	94.8
Compensation per hour	132.6	146.5	121.6	126.6	130.4	135.0	138.5	142.7	144.7	147.2	151.0	154.8	157.7
Real compensation per hour	97.5	97.6	96.6	96.9	96.8	98.3	97.9	98.2	97.9	96.7	97.4	99.1	99.8
Unit labor costs	132.2	141.6	120.7	125.1	131.4	137.3	135.6	137.0	139.2	142.0	148.7	r154.3	157.0
NONDURABLE GOODS													
Output per hour of all persons	104.0	106.2	103.7	104.7	102.3	103.2	105.8	106.7	106.5	107.0	104.6	104.9	r104.8
Output	103.7	105.6	105.8	106.2	101.8	101.5	105.1	106.4	106.5	106.9	102.6	100.4	r99.3
Hours	99.7	99.4	102.0	101.5	r99.5	98.4	99.3	99.7	99.9	99.8	98.1	95.7	r94.8
Compensation per hour	132.8	145.6	123.6	127.2	131.3	135.4	137.6	141.8	144.4	146.7	149.6	154.3	r157.6
Real compensation per hour	97.7	97.0	98.3	97.3	97.4	98.6	97.2	97.5	97.7	96.5	96.5	98.8	r99.7
Unit labor costs	127.7	137.1	119.1	121.5	128.4	131.2	130.1	132.9	135.6	137.1	143.1	147.2	r150.4
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	100.8	102.7	100.6	100.8	r99.8	r101.1	101.7	r102.8	r102.7	r102.8	r102.2	r102.3	p102.9
Output	108.1	110.7	109.9	109.8	106.5	107.1	109.0	111.0	111.1	111.5	109.4	107.9	p107.6
Hours	107.2	107.9	r109.3	109.0	106.6	105.9	r107.2	r107.9	r108.1	r108.5	107.0	r105.4	p104.6
Compensation per hour	131.6	144.4	123.1	126.8	130.0	133.4	r136.3	r140.4	r142.7	r145.7	r148.6	r151.7	p154.1
Real compensation per hour	96.8	96.2	97.9	r97.0	r96.4	r97.1	r96.3	r96.5	r96.5	95.8	95.9	r97.1	p97.5
Total unit costs	131.0	143.4	121.4	125.0	130.4	132.9	135.8	138.3	141.7	144.7	149.1	151.8	p154.0
Unit labor costs	130.5	140.6	122.4	125.8	130.2	131.9	134.1	136.5	138.9	141.7	145.4	148.3	p149.7
Unit nonlabor costs	132.5	151.4	118.7	122.7	131.0	135.7	140.7	143.4	149.6	153.1	159.6	161.8	p166.2
Unit profits	87.9	101.6	84.1	91.1	81.9	87.8	90.5	104.7	98.8	105.2	97.6	86.1	p82.4
Implicit price deflator	126.1	138.6	117.1	121.1	124.8	127.7	130.6	134.5	136.8	140.2	143.2	144.3	p145.8

p=preliminary.
r=revised.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

**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					
	1980 IV	1981 I	1981 II	1981 III	1981 IV	1982 I	1980 I	1980 II	1980 III	1980 IV	1981 I	1981 II
	to 1981 I	to 1981 II	to 1981 III	to 1981 IV	to 1982 I	to 1982 II	to 1981 I	to 1981 II	to 1981 III	to 1981 IV	to 1982 I	to 1982 II
BUSINESS SECTOR:												
Output per hour of all persons	5.6	0.0	1.1	-2.9	r-1.0	r1.2	1.4	2.5	2.2	0.9	r-0.7	r-0.4
Output	7.9	-0.1	1.9	-6.4	-5.5	r0.4	1.1	4.1	4.1	0.7	-2.6	r-2.5
Hours	2.1	-0.1	0.8	-3.6	r-4.5	r-0.8	-0.4	1.6	1.9	-0.2	r-1.9	r-2.1
Compensation per hour	11.7	7.5	9.0	7.4	r7.3	r6.9	10.5	9.7	9.4	8.9	r7.8	r7.6
Real compensation per hour	0.2	0.5	-2.6	-0.4	r3.9	r2.2	-0.7	-0.1	-1.3	-0.6	r0.3	r0.7
Unit labor costs	5.7	7.5	7.8	10.6	r8.4	r5.6	8.9	6.9	7.1	7.9	8.6	r8.1
Unit nonlabor payments	25.0	4.9	12.5	2.9	r-5.4	r2.7	13.7	14.8	13.9	11.0	r3.5	r3.0
Implicit price deflator	11.6	6.6	9.3	8.0	3.8	r4.7	10.4	9.4	9.2	8.9	6.9	r6.4
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	4.9	-1.3	-0.3	-3.5	r0.6	r0.5	1.7	2.5	1.6	-0.1	r-1.1	r-0.7
Output	7.2	-0.8	0.3	-7.1	-4.2	r0.3	1.2	4.2	3.6	-0.2	-3.0	r-2.7
Hours	2.2	0.5	0.6	-3.7	r-4.7	r-0.1	-0.4	1.6	2.0	-0.1	r-1.9	r-2.0
Compensation per hour	11.8	7.1	9.0	7.3	r7.7	r6.0	10.6	9.8	9.4	8.8	r7.8	r7.5
Real compensation per hour	0.4	0.1	-2.6	-0.5	r4.3	r1.4	-0.6	0.0	-1.2	-0.6	r0.3	r0.6
Unit labor costs	6.6	8.6	9.3	11.2	r7.1	r5.5	8.8	7.1	7.7	8.9	r9.0	r8.3
Unit nonlabor payments	24.9	4.0	12.1	5.1	r-4.6	r2.0	14.1	13.8	13.6	11.2	r4.0	r3.5
Implicit price deflator	12.1	7.1	10.2	9.2	3.3	r4.4	10.4	9.2	9.6	9.6	7.4	r6.7
MANUFACTURING:												
Output per hour of all persons	6.3	-0.7	-0.1	-8.2	r-2.4	r0.2	2.6	4.5	4.7	-0.8	r-2.9	r-2.7
Output	6.9	2.8	-0.4	-18.7	r-13.8	r-5.7	-1.0	5.8	7.5	-2.9	-8.0	r-9.9
Hours	0.5	3.6	r-0.3	-11.4	-11.7	r-5.8	-3.5	1.2	2.7	-2.1	-5.2	-7.4
Compensation per hour	12.7	6.6	6.8	9.6	11.1	r7.8	12.2	10.7	8.9	8.9	8.5	8.8
Real compensation per hour	1.2	-0.4	-4.6	1.6	7.6	r3.1	0.8	0.9	-1.7	-0.6	1.0	1.8
Unit labor costs	6.0	7.3	6.8	19.4	r13.9	r7.7	9.3	5.9	4.0	9.8	r11.7	r11.8
DURABLE GOODS												
Output per hour of all persons	8.2	-0.7	-1.3	-8.0	r-4.9	r0.5	3.0	4.8	5.4	-0.6	-3.8	r-3.5
Output	8.0	4.5	-1.6	-21.1	r-17.5	r-6.7	-1.7	6.7	9.1	-3.2	r-9.5	-12.0
Hours	-0.2	5.3	-0.3	-14.2	-13.2	r-7.1	-4.6	1.8	3.5	-2.6	-6.0	r-8.9
Compensation per hour	12.8	5.7	6.9	10.9	10.3	7.7	12.7	11.0	9.0	9.1	8.4	8.9
Real compensation per hour	1.3	-1.2	-4.5	2.9	6.8	r2.9	1.3	1.1	-1.6	-0.4	0.9	1.9
Unit labor costs	4.3	6.5	8.3	20.5	r15.9	r7.1	9.5	5.9	3.4	9.7	12.7	12.8
NONDURABLE GOODS												
Output per hour of all persons	3.5	-0.7	1.8	-8.8	r1.1	r0.4	2.0	4.2	3.7	-1.1	r-1.7	r-1.6
Output	5.2	0.3	1.4	-15.1	r-8.3	r-4.2	0.1	4.6	5.3	-2.4	r-5.6	r-6.7
Hours	1.6	1.0	-0.4	-6.9	-9.3	r-3.8	-1.8	0.4	1.5	-1.2	-4.0	r-5.2
Compensation per hour	12.8	7.6	6.5	8.2	13.2	r8.6	11.5	10.0	8.4	8.7	8.8	r9.1
Real compensation per hour	1.2	0.6	-4.8	0.3	9.6	r3.8	0.2	0.2	-2.2	-0.7	1.3	r2.1
Unit labor costs	9.0	8.3	4.6	18.5	r12.0	r9.0	9.4	5.6	4.5	10.0	10.8	r10.9
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	4.7	r-0.4	r0.3	r-2.3	r0.5	p2.3	2.1	r2.9	1.7	r0.6	r-0.5	p0.2
Output	7.4	0.6	1.5	-7.5	-5.2	p-1.0	1.0	4.4	4.1	0.3	-2.7	p-3.1
Hours	2.6	r0.9	r1.2	r-5.3	r-5.7	p-3.2	r-1.0	r1.4	2.4	-0.2	r-2.3	p-3.3
Compensation per hour	12.4	r6.9	r8.5	r8.3	r8.6	p6.4	r10.7	r9.8	r9.2	9.0	r8.1	p 8.0
Real compensation per hour	0.9	r-0.1	r-3.0	r0.5	r5.2	p1.7	-0.5	r0.1	-1.4	-0.5	r0.6	p1.0
Total unit costs	7.5	10.2	8.6	12.8	7.4	p6.0	10.6	8.7	8.9	9.8	9.7	p8.7
Unit labor costs	7.4	7.3	8.2	10.9	8.1	p4.0	8.5	6.7	7.5	8.4	8.6	p7.8
Unit nonlabor costs	8.0	18.5	9.8	17.8	5.7	p11.4	16.9	14.2	12.9	13.4	12.8	p11.1
Unit profits	79.5	-20.8	28.4	-25.9	-39.4	p-16.0	14.9	20.7	19.7	7.9	-17.8	p-16.6
Implicit price deflator	12.3	7.1	10.2	8.9	3.0	p4.4	11.0	9.6	9.7	9.6	7.3	p6.6

p=preliminary.
r=revised.

GPO 873-678

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		
	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P
ALABAMA	\$279.79	\$289.02	\$280.96	39.8	39.7	38.7	\$7.03	\$7.28	\$7.26
Birmingham	310.45	319.57	274.62	39.2	39.6	37.2	7.92	8.07	7.92
Mobile	374.11	367.83	387.30	41.8	40.2	41.0	8.95	9.15	9.31
ALASKA	500.16	481.95	(*)	48.0	40.5	(*)	10.42	11.90	(*)
ARIZONA	311.46	344.18	341.22	38.5	39.2	38.6	8.09	8.78	8.84
ARKANSAS	246.18	262.80	261.58	39.2	39.4	39.1	6.28	6.67	6.69
Fayetteville—Springdale	215.25	233.70	231.99	38.3	38.5	38.6	5.62	6.07	6.01
Fort Smith	248.82	251.33	257.47	37.7	37.4	38.2	6.60	6.72	6.74
Little Rock—North Little Rock	276.59	298.76	303.64	39.4	38.7	39.9	7.02	7.72	7.61
Pine Bluff	322.28	356.07	358.48	41.8	41.5	41.3	7.71	8.58	8.68
CALIFORNIA	337.82	362.60	362.16	39.1	39.2	38.9	8.64	9.25	9.31
COLORADO	326.33	334.57	333.13	39.7	39.5	39.1	8.22	8.47	8.52
Denver—Boulder	323.51	340.16	337.35	39.5	39.6	39.0	8.19	8.59	8.65
CONNECTICUT	317.95	330.04	331.60	41.4	40.2	40.0	7.68	8.21	8.29
Bridgeport	341.91	346.92	352.77	42.9	41.3	41.6	7.97	8.40	8.48
Hartford	328.86	356.47	351.43	40.5	40.6	39.8	8.12	8.78	8.83
New Britain	331.57	338.15	339.73	42.4	40.4	40.3	7.82	8.37	8.43
New Haven—West Haven	303.75	311.08	320.30	40.5	38.5	39.3	7.50	8.08	8.15
Stamford	298.19	301.78	300.06	41.3	39.5	39.8	7.22	7.64	7.69
Waterbury	267.73	277.89	271.47	41.0	40.1	39.4	6.53	6.93	6.89
DELAWARE	360.82	336.96	350.83	42.7	39.0	40.7	8.45	8.64	8.62
Wilmington	391.82	407.12	391.13	39.9	38.7	37.9	9.82	10.52	10.32
DISTRICT OF COLUMBIA:									
Washington SMSA	346.48	361.68	355.70	38.8	38.6	37.6	8.93	9.37	9.46
FLORIDA	267.96	269.99	270.46	40.6	39.3	38.2	6.60	6.87	7.08
Fort Lauderdale—Hollywood	248.84	265.44	256.30	40.2	39.5	38.6	6.19	6.72	6.64
Jacksonville	319.27	295.95	300.89	42.4	37.7	37.8	7.53	7.85	7.96
Lakeland—Winter Haven	309.60	305.93	314.36	43.0	40.9	41.2	7.20	7.48	7.63
Miami	229.54	233.04	225.75	40.2	39.1	37.5	5.71	5.96	6.02
Orlando	297.73	301.61	308.66	42.9	40.0	40.4	6.94	7.54	7.64
Pensacola	335.12	324.66	356.33	42.8	39.4	40.4	7.83	8.24	8.82
Tampa—St. Petersburg	265.93	273.04	276.36	40.6	39.4	40.4	6.55	6.93	6.89
West Palm Beach—Boca Raton	293.41	294.80	282.70	41.5	40.0	38.1	7.07	7.37	7.42
GEORGIA	250.17	260.23	263.06	39.9	39.5	38.8	6.27	6.74	6.78
Atlanta	292.87	326.02	316.61	39.9	40.2	38.8	7.34	8.11	8.16
Savannah	356.53	383.24	363.96	43.8	43.6	41.5	8.14	8.79	8.77
HAWAII	261.30	288.10	296.45	36.7	36.7	38.6	7.12	7.85	7.68
Honolulu	249.12	283.50	292.23	36.0	36.3	38.1	6.92	7.81	7.67
IDAHO	325.18	322.06	329.40	37.9	37.8	36.5	8.59	8.52	9.00
Boise City	278.21	293.66	308.73	37.8	37.6	39.8	7.36	7.81	7.76
ILLINOIS	356.90	362.63	361.14	39.7	39.2	39.0	8.99	9.25	9.26
Bloomington—Normal	335.36	330.25	328.25	39.5	37.7	37.6	8.49	8.76	8.73
Champaign—Urbana—Rantoul	324.69	350.78	327.85	39.5	40.6	38.3	8.22	8.64	8.56
Chicago SMSA	325.35	350.16	349.07	39.2	39.3	38.7	8.30	8.91	9.02
Davenport—Rock Island—Moline	449.35	460.88	466.76	40.3	38.6	38.8	11.15	11.94	12.03
Decatur	410.19	459.20	449.69	38.3	40.0	38.8	10.71	11.48	11.59
Kankakee	301.64	323.65	318.40	37.8	38.9	38.5	7.98	8.32	8.27
Peoria	470.37	467.98	456.77	39.1	37.2	36.6	12.03	12.58	12.48
Rockford	372.60	369.34	370.66	40.5	39.8	39.6	9.20	9.28	9.36
Springfield	392.40	455.36	457.33	40.0	41.7	41.5	9.81	10.92	11.02
INDIANA	376.67	388.66	386.51	40.2	39.7	39.4	9.37	9.79	9.81
Gary—Hammond—East Chicago	493.25	(*)	(*)	40.2	(*)	(*)	12.27	(*)	(*)
Indianapolis	374.10	(*)	(*)	40.4	(*)	(*)	9.26	(*)	(*)
IOWA	376.36	386.00	381.76	38.8	38.6	38.1	9.70	10.00	10.02
Cedar Rapids	355.50	399.96	390.21	37.5	39.6	39.7	9.48	10.10	9.98
Des Moines	390.40	406.73	416.48	38.2	37.8	38.0	10.22	10.76	10.96

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		
	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P
IOWA—Continued									
Dubuque	\$416.70	\$406.85	\$394.71	38.3	36.1	35.4	\$10.88	\$11.27	\$11.15
Sloux City	293.73	358.75	342.42	38.7	40.4	39.0	7.59	8.88	8.78
Waterloo—Cedar Falls	515.20	528.05	505.13	40.0	33.6	37.5	12.88	13.68	13.47
KANSAS									
Topeka	319.56	341.34	348.00	39.5	39.1	39.5	8.09	8.73	8.81
Wichita	332.09	320.29	320.07	39.3	37.2	37.7	8.45	8.61	8.49
	361.57	365.76	380.95	41.8	38.1	39.6	8.65	9.60	9.62
KENTUCKY									
Lexington—Fayette	310.47	325.65	319.35	39.4	39.0	38.2	7.88	8.35	8.36
Louisville	318.97	373.82	362.87	38.2	40.5	39.4	8.35	9.23	9.21
	366.00	386.07	377.67	40.0	40.3	39.3	9.15	9.58	9.61
LOUISIANA									
Baton Rouge	361.50	376.27	375.34	41.9	40.2	40.1	8.63	9.35	9.36
New Orleans	459.11	473.88	465.16	43.6	41.1	40.1	10.53	11.53	11.60
Shreveport	344.61	364.26	355.12	40.4	39.0	38.6	8.53	9.34	9.20
	314.84	340.31	334.43	41.7	41.2	40.1	7.55	8.26	8.34
MAINE									
Lewiston—Auburn	271.35	284.31	296.40	40.2	40.1	40.0	6.75	7.09	7.41
Portland	221.60	232.15	237.08	39.5	38.5	38.3	5.61	6.03	6.19
	251.16	274.77	286.77	38.7	38.7	38.7	6.49	7.10	7.41
MARYLAND									
Baltimore	336.31	341.48	344.18	39.8	39.8	39.2	8.45	8.58	8.78
	353.28	367.28	368.80	40.1	40.9	40.0	8.81	8.98	9.22
MASSACHUSETTS									
Boston	280.50	296.60	294.88	39.9	39.6	38.8	7.03	7.49	7.60
Brockton	300.80	319.60	318.72	40.0	39.9	39.3	7.52	8.01	8.11
Fall River	224.07	232.73	229.15	38.5	37.0	36.2	5.82	6.29	6.33
Lawrence—Haverhill	209.36	220.58	208.74	38.5	37.9	35.5	5.43	5.82	5.88
Lowell	287.36	299.34	299.88	39.8	39.7	39.2	7.22	7.54	7.65
New Bedford	245.25	268.37	250.22	37.5	39.7	35.9	6.54	6.76	6.97
Springfield—Chicopee—Holyoke	234.62	265.78	266.88	37.6	39.2	38.4	6.24	6.78	6.95
Worcester	280.55	303.96	305.56	40.6	40.8	40.1	6.91	7.45	7.62
	262.66	303.03	297.99	39.7	38.9	38.5	7.12	7.79	7.74
MICHIGAN									
Ann Arbor	423.64	474.89	464.14	40.3	41.6	40.7	10.52	11.42	11.41
Battle Creek	481.44	510.87	481.89	42.4	42.7	40.9	11.35	11.97	11.79
Bay City	432.08	463.22	466.28	41.0	39.1	39.1	10.53	11.83	11.91
Detroit	372.33	401.83	392.69	40.0	41.0	40.1	9.32	9.80	9.79
Flint	453.58	515.00	491.16	40.9	42.8	41.2	11.09	12.03	11.91
Grand Rapids	500.70	578.62	565.08	41.4	42.5	42.0	12.09	13.61	13.45
Jackson	345.70	374.37	367.64	39.3	39.8	38.6	8.80	9.41	9.53
Kalamazoo—Portage	405.55	404.70	399.16	43.4	40.6	40.8	9.34	9.98	9.78
Lansing—East Lansing	395.23	401.52	412.19	39.3	39.3	39.5	10.05	10.20	10.45
Muskegon—Norton Shores—Muskegon Heights	465.20	494.88	537.92	38.8	40.5	42.8	12.00	12.20	12.58
Saginaw	350.94	367.89	353.73	39.2	38.4	36.6	8.95	9.57	9.65
	511.38	545.26	548.17	41.5	41.6	41.2	12.33	13.12	13.30
MINNESOTA									
Duluth—Superior	327.27	357.50	356.46	39.1	39.2	39.0	8.37	9.12	9.14
Minneapolis—St. Paul	340.23	361.78	350.62	39.7	39.8	38.7	8.57	9.09	9.06
St. Cloud	343.88	375.09	375.36	38.9	39.4	39.1	8.84	9.52	9.60
	247.81	249.33	250.99	35.2	33.2	33.6	7.04	7.51	7.47
MISSISSIPPI									
Jackson	231.25	252.01	244.22	38.8	39.5	38.4	5.96	6.38	6.36
	200.25	290.19	273.62	40.1	40.7	39.2	6.49	7.13	6.98
MISSOURI									
Kansas City	309.67	334.17	329.09	39.1	39.5	38.9	7.92	8.46	8.46
St. Joseph	353.81	375.18	365.94	39.4	39.0	38.0	8.98	9.62	9.63
St. Louis	283.29	298.68	306.15	39.4	38.0	39.0	7.19	7.86	7.85
Springfield	355.90	382.48	380.78	39.5	39.8	39.5	9.01	9.61	9.64
	313.92	302.09	290.60	41.8	41.1	39.7	7.51	7.35	7.32
MONTANA									
	369.80	404.74	391.61	42.9	40.8	39.2	8.62	9.92	9.99
NEBRASKA									
Lincoln	314.02	331.10	333.96	39.4	39.7	39.9	7.97	8.34	8.37
Omaha	305.74	317.06	314.26	38.8	38.2	38.0	7.88	8.30	8.27
	328.64	335.13	345.32	39.5	38.3	38.8	8.32	8.75	8.90
NEVADA									
Las Vegas	321.09	325.23	329.73	38.5	37.0	37.3	8.34	8.79	8.84
	391.79	409.37	(*)	38.6	39.4	(*)	10.15	10.39	(*)

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		
	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P
NEW HAMPSHIRE	\$254.52	\$275.71	\$275.80	39.4	39.9	39.4	\$6.46	\$6.91	\$7.00
Manchester	233.17	259.29	256.10	36.1	40.2	39.4	6.12	6.45	6.50
Nashua	278.87	310.08	308.88	39.5	39.5	39.0	7.06	7.95	7.92
NEW JERSEY	323.00	345.77	341.48	40.1	40.3	39.8	8.05	8.58	8.58
Atlantic City	266.30	253.02	261.89	39.1	37.1	37.2	6.81	6.82	7.04
Camden	313.80	335.43	334.63	38.5	38.0	38.2	8.14	8.69	8.76
Hackensack	284.02	292.53	293.33	40.1	38.9	38.8	7.08	7.52	7.56
Jersey City	307.85	322.34	320.23	39.7	39.6	39.1	7.76	8.14	8.19
New Brunswick—Perth Amboy—Sayreville	368.36	390.58	390.73	41.2	41.2	41.0	8.94	9.48	9.53
Newark	330.61	365.62	352.81	40.6	41.5	40.6	8.14	8.81	8.69
Paterson—Clifton—Passaic	312.52	310.04	316.40	41.0	39.8	39.6	7.52	7.79	7.99
Trenton	320.12	344.16	338.24	38.9	38.8	38.7	8.23	8.97	8.74
NEW MEXICO	260.43	281.87	278.91	40.0	39.7	38.9	6.51	7.10	7.17
Albuquerque	262.68	298.29	291.83	40.6	39.3	37.9	6.47	7.59	7.70
NEW YORK	306.94	(*)	(*)	39.1	(*)	(*)	7.85	(*)	(*)
Albany—Schenectady—Troy	325.01	337.59	(*)	39.3	39.3	(*)	8.27	8.59	(*)
Binghamton	285.93	293.13	(*)	40.5	40.6	(*)	7.06	7.22	(*)
Buffalo	403.23	441.45	(*)	40.0	40.5	(*)	10.08	10.90	(*)
Elmira	306.87	341.54	(*)	39.7	39.9	(*)	7.78	8.56	(*)
Monroe County	405.52	449.60	(*)	40.6	41.4	(*)	9.99	10.86	(*)
Nassau—Suffolk	295.32	316.78	(*)	39.8	39.6	(*)	7.42	8.05	(*)
New York—Northeastern New Jersey	293.51	(*)	(*)	39.2	(*)	(*)	7.49	(*)	(*)
New York and Nassau—Suffolk	267.29	284.24	(*)	37.7	37.4	(*)	7.09	7.60	(*)
New York SMSA	259.33	274.16	(*)	37.1	36.8	(*)	6.99	7.45	(*)
New York City	253.96	269.37	(*)	36.7	36.5	(*)	6.92	7.38	(*)
Poughkeepsie	317.48	321.88	(*)	42.5	40.9	(*)	7.47	7.87	(*)
Rochester	379.36	425.18	(*)	40.4	41.2	(*)	9.39	10.32	(*)
Rockland County	293.57	322.76	(*)	39.3	38.7	(*)	7.47	8.34	(*)
Syracuse	340.61	352.84	(*)	40.5	39.6	(*)	8.41	8.91	(*)
Utica—Rome	296.86	301.85	(*)	39.9	39.1	(*)	7.44	7.72	(*)
Westchester County	302.40	308.89	(*)	40.7	39.5	(*)	7.43	7.82	(*)
NORTH CAROLINA	233.84	240.16	236.48	39.3	38.0	37.3	5.95	6.32	6.34
Asheville	233.96	237.29	226.38	40.2	38.9	37.5	5.82	6.10	6.09
Charlotte—Gastonia	245.81	247.50	247.02	40.9	39.1	38.9	6.01	6.33	6.35
Greensboro—Winston-Salem—High Point	253.82	261.93	254.83	38.4	37.1	36.3	6.61	7.06	7.02
Raleigh—Durham	268.09	280.01	277.50	39.6	38.2	37.5	6.77	7.33	7.40
NORTH DAKOTA	273.26	270.75	284.58	37.9	36.1	37.2	7.21	7.50	7.65
Fargo—Moorhead	294.90	302.59	309.26	38.2	38.4	38.9	7.72	7.88	7.95
OHIO	388.14	413.92	408.83	40.6	40.7	40.2	9.56	10.17	10.17
Akron	400.98	407.12	401.02	41.9	41.5	41.3	9.57	9.81	9.71
Canton	387.25	403.46	399.84	39.8	39.4	39.2	9.73	10.24	10.20
Cincinnati	357.36	394.42	390.17	40.9	41.0	40.0	8.73	9.62	9.61
Cleveland	391.79	420.25	410.66	40.6	41.0	40.3	9.65	10.25	10.19
Columbus	339.31	373.33	370.80	39.5	40.1	39.7	8.59	9.31	9.34
Dayton	400.61	429.30	424.56	41.6	41.2	41.1	9.63	10.42	10.33
Toledo	400.36	458.96	460.64	40.4	41.8	41.8	9.91	10.98	11.02
Youngstown—Warren	470.66	469.57	466.50	40.4	40.1	39.5	11.65	11.71	11.81
OKLAHOMA	332.88	350.61	348.98	40.3	40.3	39.3	8.25	8.70	8.68
Oklahoma City	361.75	364.51	358.68	40.0	40.1	39.2	8.91	9.09	9.15
Tulsa	355.37	371.62	377.13	40.8	39.2	39.0	8.71	9.48	9.67
OREGON	357.54	394.98	(*)	37.4	38.8	(*)	9.56	10.18	(*)
Eugene—Springfield	382.41	415.84	(*)	37.9	38.9	(*)	10.09	10.69	(*)
Jackson County	351.29	364.56	(*)	36.9	39.2	(*)	9.52	9.30	(*)
Portland	358.16	390.33	(*)	37.9	38.8	(*)	9.45	10.06	(*)
Salem	303.63	361.90	(*)	34.7	35.0	(*)	8.66	10.34	(*)
PENNSYLVANIA	323.31	328.79	330.91	39.0	38.5	38.3	8.29	8.54	8.64
Allentown—Bethlehem—Easton	330.15	330.25	343.28	38.3	37.7	36.1	8.62	8.75	9.01
Altoona	275.16	289.08	302.33	38.7	39.6	40.8	7.11	7.30	7.41
Delaware Valley	333.08	336.72	340.84	39.7	38.8	38.6	8.39	8.73	8.83
Erie	344.25	359.50	360.64	40.5	39.9	39.2	8.50	9.01	9.20
Harrisburg	302.59	320.44	319.76	39.4	38.7	38.9	7.68	8.28	8.22
Johnstown	330.13	312.91	304.64	36.6	36.3	35.3	9.02	8.62	8.63

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		
	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P
PENNSYLVANIA—Continued									
Lancaster	\$275.42	\$297.60	\$296.78	38.2	38.7	38.0	\$7.21	\$7.69	\$7.81
Northeast Pennsylvania	235.59	257.10	263.95	37.1	37.1	37.6	6.35	6.93	7.02
Philadelphia SMSA	330.30	338.72	339.57	39.7	38.8	38.5	8.32	8.73	8.82
Pittsburgh	395.78	399.17	396.60	40.3	37.8	37.7	9.92	10.56	10.52
Reading	501.09	317.57	316.61	38.8	38.4	38.1	7.76	8.27	8.31
Williamsport	295.58	312.05	309.28	38.5	39.4	39.1	7.68	7.92	7.91
York	306.68	311.22	317.98	41.0	39.9	40.2	7.48	7.80	7.91
RHODE ISLAND									
Providence—Warwick—Pawtucket	237.68	259.62	252.45	38.9	39.1	37.4	6.11	6.64	6.75
	237.34	256.50	248.34	39.1	39.1	37.4	6.07	6.56	6.64
SOUTH CAROLINA									
Charleston—North Charleston	247.82	257.13	259.78	40.1	38.9	38.6	6.18	6.61	6.73
Columbia	265.59	275.12	279.36	38.9	38.0	37.7	6.83	7.24	7.41
Greenville—Spartanburg	242.59	246.65	241.61	39.9	38.3	37.0	6.08	6.44	6.53
	244.62	250.90	249.10	40.3	38.9	38.8	6.07	6.45	6.42
SOUTH DAKOTA									
Sioux Falls	289.07	306.18	314.00	40.6	40.5	41.7	7.12	7.56	7.53
	406.94	415.94	451.97	47.1	43.6	45.7	8.64	9.54	9.89
TENNESSEE									
Chattanooga	268.80	281.71	281.06	40.0	39.4	39.2	6.72	7.15	7.17
Knoxville	263.41	277.11	266.04	40.4	39.7	38.5	6.52	6.98	6.91
Memphis	298.95	317.52	326.30	40.4	39.2	39.6	7.40	8.10	8.24
Nashville—Davidson	306.80	313.50	313.10	40.0	40.4	40.4	7.67	7.76	7.75
	297.43	320.76	316.76	40.2	40.5	40.3	7.40	7.92	7.86
TEXAS									
Dallas—Fort Worth	323.95	347.09	349.16	40.8	40.5	40.6	7.94	8.57	8.60
Houston	303.36	332.10	335.36	40.3	40.5	40.6	7.52	8.20	8.26
San Antonio	413.34	431.57	430.15	42.7	41.9	41.4	9.68	10.30	10.39
	235.20	249.56	243.66	40.0	39.3	38.8	5.88	6.35	6.28
UTAH									
Salt Lake City—Ogden	308.88	322.37	323.71	39.6	38.7	38.4	7.80	8.33	8.43
	298.75	318.11	323.59	40.1	38.7	38.8	7.45	8.22	8.34
VERMONT									
Burlington	265.16	282.85	284.13	39.4	38.8	38.5	6.73	7.29	7.38
Springfield	287.33	317.96	319.60	40.2	40.2	40.1	7.14	7.91	7.97
	305.21	308.90	311.18	41.3	39.2	38.8	7.39	7.86	8.02
VIRGINIA									
Bristol	270.58	286.55	284.48	39.4	39.2	38.6	6.87	7.31	7.37
Lynchburg	225.17	246.08	245.97	38.1	37.8	37.1	5.91	6.51	6.63
Norfolk—Virginia Beach—Portsmouth	271.88	252.36	239.78	40.1	36.0	34.6	6.78	7.01	6.93
Northern Virginia	292.94	316.58	309.20	40.8	41.6	40.9	7.18	7.61	7.56
Petersburg—Colonial Heights—Hopewell	292.79	306.15	301.86	39.3	39.3	38.7	7.45	7.79	7.80
Richmond	343.80	392.78	394.79	39.5	41.0	40.7	8.93	9.58	9.70
Roanoke	345.64	355.68	361.62	39.1	39.0	38.6	8.84	9.12	9.32
	263.31	256.47	252.78	40.2	38.8	36.3	6.55	6.61	6.60
WASHINGTON									
Seattle—Everett	409.73	446.08	(*)	38.8	39.9	(*)	10.56	11.18	(*)
	419.93	(*)	(*)	39.1	(*)	(*)	10.74	(*)	(*)
WEST VIRGINIA									
Charleston	344.57	368.32	357.21	39.2	39.1	37.8	8.79	9.42	9.45
Huntington—Ashland	422.74	435.34	430.13	42.0	41.5	41.2	10.07	10.49	10.44
Parkersburg—Marietta	390.17	408.46	389.36	38.9	37.0	35.3	10.03	11.04	11.03
Wheeling	371.62	421.46	407.25	41.2	40.8	40.2	9.02	10.33	10.13
	379.35	397.56	374.54	39.2	38.9	36.9	9.57	10.22	10.15
WISCONSIN									
Appleton—Oshkosh	350.96	369.04	372.82	40.2	39.5	40.0	8.74	9.34	9.31
Eau Claire	354.34	359.54	361.72	42.0	40.3	40.8	8.45	8.93	8.87
Green Bay	323.57	357.30	357.83	40.0	40.7	40.6	8.09	8.79	8.81
Janesville—Beloit	369.04	408.43	411.97	41.8	42.3	43.0	8.82	9.65	9.59
Kenosha	371.85	394.31	397.25	39.0	39.6	40.1	9.53	9.95	9.90
La Crosse	425.44	431.43	498.77	40.9	39.1	42.2	10.39	11.04	11.82
Madison	305.11	318.51	322.94	40.9	37.6	37.6	7.47	8.47	8.59
Milwaukee	345.12	380.66	374.76	40.0	39.7	40.8	8.63	9.58	9.18
Racine	387.10	409.50	417.47	40.0	39.4	39.9	9.67	10.38	10.46
	374.90	390.89	398.71	39.1	39.1	39.3	9.58	9.99	10.16
WYOMING									
	332.86	322.10	331.30	41.4	38.3	38.3	8.04	8.41	8.65

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		
	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P	JULY 1981	JUNE 1982	JULY 1982P
VIRGIN ISLANDS	\$366.37	\$404.89	\$408.77	42.7	41.4	41.5	\$8.58	\$9.78	\$9.85

¹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.
² Subarea of New York—Northeastern New Jersey.
³ Subarea of Rochester Standard Metropolitan Statistical Area.
⁴ Area included in New York and Nassau—Suffolk combined SMSA's.
⁵ Subarea of New York Standard Metropolitan Statistical Area.
⁶ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

⁷ Subarea of 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		
	JUL. 1981	JUN. 1982	JUL. 1982P	JUL. 1981	JUN. 1982	JUL. 1982P	JUL. 1981	JUN. 1982	JUL. 1982P
ALABAMA	1,673.3	1,707.4	1,704.8	183.7	238.9	247.9	11.0	14.0	14.5
Birmingham	376.8	381.7	383.8	40.1	49.6	52.3	10.6	13.0	13.6
Huntsville	143.1	149.1	149.4	14.8	19.2	19.5	10.3	12.9	13.1
Mobile	192.6	195.2	193.3	19.4	26.7	27.4	10.1	13.7	14.2
Montgomery	122.7	124.2	122.4	12.0	15.9	14.5	9.8	12.8	11.8
Tuscaloosa	53.9	54.1	54.0	5.8	6.7	6.6	10.8	12.4	12.1
ALASKA	206.2	210.0	211.9	17.4	20.9	18.7	8.4	10.0	8.8
ARIZONA	1,250.3	1,310.0	1,309.2	79.0	136.4	143.3	6.3	10.4	10.9
Phoenix	764.1	793.7	791.8	38.8	63.2	65.3	5.1	8.0	8.2
Tucson	225.6	242.0	236.9	11.6	24.1	23.7	5.2	9.9	10.0
ARKANSAS	1,046.4	1,026.7	1,024.5	93.8	98.8	96.9	9.0	9.6	9.5
Fayetteville-Springdale	81.2	79.6	N.A.	4.7	5.6	N.A.	5.8	7.1	N.A.
Fort Smith ¹	91.4	87.4	N.A.	7.5	10.1	N.A.	8.2	11.5	N.A.
Little Rock—North Little Rock	201.1	197.3	N.A.	16.0	16.1	N.A.	8.0	8.2	N.A.
Pine Bluff	41.5	40.4	N.A.	4.5	4.6	N.A.	10.9	11.3	N.A.
CALIFORNIA²	11,876.5	12,145.5	12,336.3	882.3	1,137.6	1,316.3	7.4	9.4	10.7
Anaheim—Santa Ana—Garden Grove	1,161.1	1,210.3	1,218.0	54.6	85.1	95.5	4.7	7.0	7.8
Bakersfield	200.5	208.3	210.1	16.0	21.6	21.6	8.0	10.4	12.4
Fresno	284.1	297.1	304.1	25.6	36.1	38.7	9.0	12.2	12.7
Los Angeles—Long Beach ²	3,807.0	3,775.0	3,850.0	265.0	334.0	399.0	7.0	8.8	10.4
Modesto	140.7	142.9	149.3	18.4	27.2	26.5	13.1	19.0	17.7
Oxnard—Simi Valley—Ventura	249.4	262.7	266.2	21.3	26.6	31.0	8.6	10.1	11.6
Riverside—San Bernardino—Ontario	603.2	633.5	643.3	55.3	73.5	87.4	9.2	11.6	13.6
Sacramento	493.0	507.6	516.7	43.3	55.0	61.8	8.8	10.8	12.0
Salinas—Seaside—Monterey	140.5	144.5	148.1	12.1	12.2	14.0	8.6	8.4	9.5
San Diego	793.1	820.0	828.6	58.0	77.6	91.2	7.3	9.5	11.0
San Francisco—Oakland	1,685.2	1,736.5	1,766.9	108.6	131.2	156.1	6.4	7.6	8.8
San Jose	791.4	819.5	831.6	51.9	61.7	67.2	6.6	7.5	8.1
Santa Barbara—Santa Maria—Lompoc	155.6	159.2	162.2	9.5	11.9	13.5	6.1	7.5	8.3
Santa Rosa	140.1	148.0	146.8	11.3	14.9	16.1	8.0	10.0	11.0
Stockton	172.5	183.9	185.8	18.5	27.4	29.2	10.7	14.9	15.7
Vallejo—Fairfield—Napa	135.1	138.7	142.1	10.8	13.2	15.6	8.0	9.5	11.0
COLORADO	1,549.2	1,590.3	1,586.7	79.4	115.0	114.9	5.1	7.2	7.2
Denver—Boulder	914.4	941.0	935.6	43.6	59.7	58.8	4.8	6.3	6.3
CONNECTICUT	1,599.0	1,637.9	1,625.7	102.0	113.6	114.9	6.4	6.9	7.1
Bridgeport	193.0	197.2	195.4	12.2	15.1	15.3	6.3	7.7	7.8
Hartford	386.3	397.9	394.6	22.3	25.4	26.5	5.8	6.4	6.7
New Britain	73.5	75.6	73.5	5.3	7.3	7.1	7.3	9.6	9.7
New Haven—West Haven	198.4	204.5	202.0	14.0	14.9	13.9	7.0	7.3	6.9
Stamford	124.5	127.1	126.8	4.9	4.5	4.8	3.9	3.5	3.8
Waterbury	107.7	111.3	111.0	9.2	10.2	10.0	8.6	9.2	9.0
DELAWARE	296.7	310.7	306.0	22.3	27.9	25.1	7.5	9.0	8.2
Wilmington ¹	257.4	269.9	264.8	19.1	26.3	21.9	7.4	9.8	8.3
DISTRICT OF COLUMBIA	320.7	315.2	336.3	32.2	35.9	38.5	10.0	11.4	11.4
Washington SMSA ¹	1,725.9	1,727.9	1,748.5	93.8	109.7	109.8	5.4	6.3	6.3
FLORIDA²	4,621.9	4,763.3	4,853.6	300.7	365.6	364.9	6.5	7.7	7.5
Daytona Beach	112.5	115.3	115.9	6.0	6.9	6.6	5.3	5.9	5.7
Fort Lauderdale—Hollywood	496.0	501.6	509.1	23.8	33.2	30.7	4.8	6.6	6.0
Fort Myers—Cape Coral	92.4	101.4	98.9	4.7	7.8	6.0	5.1	7.7	6.1
Gainesville	79.5	82.0	83.9	3.2	3.9	3.7	4.0	4.8	4.4
Jacksonville	346.2	362.4	371.2	20.2	24.5	26.6	5.8	6.7	7.2
Lakeland—Winter Haven	148.4	152.3	146.2	21.3	24.5	24.6	14.3	16.1	16.8
Melbourne—Titusville—Cocoa	128.8	127.7	133.3	9.9	10.5	10.9	7.7	8.3	8.2
Miami	839.9	854.9	873.1	51.7	68.3	61.9	6.2	8.0	7.1
Orlando	384.9	389.8	392.0	25.9	24.6	25.4	6.7	6.3	6.5
Pensacola	123.6	129.3	134.9	6.7	8.0	8.6	5.4	6.2	6.4
Sarasota	81.7	85.1	87.4	3.7	5.7	6.3	4.5	6.7	7.2
Tallahassee	88.7	89.5	90.4	4.0	4.3	4.2	4.5	4.8	4.7
Tampa—St. Petersburg	707.9	744.4	765.0	40.5	51.2	53.0	5.7	6.9	6.9
West Palm Beach—Boca Raton	273.6	282.6	283.3	20.3	23.5	22.6	7.4	8.3	8.0

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		
	JUL. 1981	JUN. 1982	JUL. 1982P	JUL. 1981	JUN. 1982	JUL. 1982P	JUL. 1981	JUN. 1982	JUL. 1982P
GEORGIA	2,603.2	2,684.3	2,687.3	164.4	217.2	217.1	6.3	8.1	8.1
Albany.....	55.2	56.0	56.9	5.5	5.5	6.4	10.0	9.8	11.3
Atlanta.....	1,063.2	1,112.0	1,113.5	58.9	73.5	70.5	5.5	6.6	6.3
Augusta.....	130.4	137.7	138.4	9.2	12.7	12.3	7.1	9.2	8.9
Columbus ¹	91.0	91.3	90.1	7.1	10.6	9.0	7.8	11.6	10.0
Macon.....	106.8	110.1	110.6	6.3	7.3	7.5	5.9	6.7	6.8
Savannah.....	94.6	101.1	99.1	5.5	7.6	7.5	5.8	7.5	7.6
HAWAII	458.7	456.8	458.3	25.2	35.4	34.9	5.5	7.7	7.6
Honolulu.....	352.4	350.5	350.4	17.8	24.9	24.6	5.1	7.1	7.0
IDAHO	435.5	444.9	442.0	29.6	40.8	39.7	6.8	9.2	9.0
Boise City.....	90.1	91.5	90.9	4.9	6.5	5.9	5.4	7.1	6.5
ILLINOIS²	5,681.4	5,707.9	5,758.8	436.4	669.6	701.8	7.7	11.7	12.2
Bloomington—Normal.....	62.5	61.6	62.0	3.7	5.6	5.1	6.0	9.1	8.2
Champaign—Urbana—Rantoul.....	83.4	84.3	86.8	4.7	6.6	6.9	5.7	7.8	8.0
Chicago.....	3,567.9	3,576.7	3,613.8	266.2	390.9	410.9	7.5	10.9	11.4
Davenport—Rock Island—Moline ¹	191.4	193.7	204.9	14.3	27.6	30.0	7.5	14.2	14.7
Decatur.....	63.2	65.0	65.6	6.4	10.5	10.9	10.1	16.1	16.7
Kankakee.....	42.4	44.1	43.9	4.7	7.5	7.8	11.1	17.1	17.7
Peoria.....	177.1	179.8	183.3	12.1	29.0	29.2	6.8	16.1	16.0
Rockford.....	137.6	140.6	140.6	11.5	27.2	27.2	8.3	19.3	19.3
Springfield.....	100.0	101.3	104.4	6.2	7.5	7.7	6.2	7.4	7.3
INDIANA	2,610.7	2,564.8	2,568.8	249.5	295.4	292.1	9.6	11.5	11.4
Anderson.....	55.8	54.0	53.9	6.4	7.4	7.3	11.5	13.7	13.4
Elkhart.....	67.5	66.1	66.3	5.9	6.0	6.5	8.7	9.0	9.9
Evansville ¹	148.8	N.A.	N.A.	11.4	N.A.	N.A.	7.6	N.A.	N.A.
Fort Wayne.....	193.9	187.0	187.9	17.6	22.2	22.0	9.1	11.9	11.7
Gary—Hammond—East Chicago.....	297.2	290.0	295.6	33.2	45.3	45.7	11.2	15.6	15.5
Indianapolis.....	615.6	602.6	606.3	52.4	54.9	54.8	8.5	9.1	9.0
Lafayette—West Lafayette.....	60.1	59.4	60.1	4.1	5.2	5.1	6.9	8.8	8.5
Muncie.....	55.7	54.3	53.6	6.3	7.4	7.2	11.3	13.5	13.5
South Bend.....	135.4	133.6	133.7	11.6	12.9	13.8	8.6	9.6	10.3
Terre Haute.....	79.1	74.7	75.2	7.3	8.9	8.7	9.2	11.9	11.5
IOWA	1,453.9	1,447.7	1,410.5	99.5	126.4	121.7	6.8	8.7	8.6
Cedar Rapids.....	87.4	84.9	82.6	7.2	9.5	9.5	8.2	11.2	11.5
Des Moines.....	183.1	180.3	175.6	13.9	15.1	14.5	7.6	8.4	8.3
Dubuque.....	45.0	44.1	42.6	4.6	6.4	6.4	10.2	14.5	15.0
Sioux City ¹	53.7	55.5	53.9	4.2	5.2	4.9	7.8	9.4	9.1
Waterloo—Cedar Falls.....	68.3	66.1	64.8	6.0	7.9	7.7	8.7	12.0	11.9
KANSAS	1,201.0	1,185.2	1,167.1	48.1	73.2	74.9	4.0	6.2	6.4
Lawrence.....	33.3	32.8	31.5	1.7	1.9	1.8	5.0	5.9	5.8
Topeka.....	96.7	94.0	92.9	5.2	6.1	6.1	5.4	6.5	6.6
Wichita.....	230.5	225.5	222.0	9.1	19.8	20.5	3.9	8.8	9.2
KENTUCKY	1,634.7	1,659.6	1,647.6	132.9	178.1	184.0	8.1	10.7	11.2
Lexington—Fayette.....	177.2	179.5	180.0	8.8	12.1	13.1	5.0	6.8	7.3
Louisville ¹	431.5	431.0	430.8	36.6	50.3	48.8	8.5	11.7	11.3
Owensboro.....	43.8	40.3	40.1	3.2	3.8	3.7	7.4	9.5	9.3
LOUISIANA	1,883.1	1,902.8	1,897.1	164.8	225.5	208.9	8.8	11.8	11.0
Alexandria.....	73.9	73.6	73.5	8.3	9.1	8.4	11.2	12.4	11.4
Baton Rouge.....	230.8	226.6	225.6	20.1	24.6	21.5	8.7	10.9	9.5
Lafayette.....	92.8	98.0	99.3	4.1	6.3	5.6	4.5	6.4	5.6
Lake Charles.....	82.7	80.0	79.2	7.3	13.3	11.7	8.8	16.6	14.8
Monroe.....	58.2	55.6	55.6	6.3	7.8	7.4	10.9	14.0	13.2
New Orleans.....	522.8	516.6	512.8	42.3	56.3	49.7	8.1	10.9	9.7
Shreveport.....	166.4	165.0	160.1	14.4	17.5	15.4	8.7	10.6	9.6
MAINE	532.6	542.1	540.9	43.7	48.4	52.6	8.2	8.9	9.7
Lewiston—Auburn.....	38.3	39.3	38.9	4.0	4.0	5.8	10.6	10.1	14.9
Portland.....	92.9	98.4	96.1	6.0	6.6	6.8	6.5	6.7	7.1
MARYLAND	2,186.8	2,228.8	2,226.8	156.6	200.4	192.0	7.2	9.0	8.6
Baltimore.....	1,081.0	1,114.9	1,108.7	89.1	117.3	111.0	8.2	10.5	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		
	JUL. 1981	JUN. 1982	JUL. 1982P	JUL. 1981	JUN. 1982	JUL. 1982P	JUL. 1981	JUN. 1982	JUL. 1982P
MASSACHUSETTS¹	3,003.4	3,050.0	3,108.1	198.0	274.7	299.2	6.6	9.0	9.6
Boston	1,446.3	1,461.0	1,485.5	88.7	115.2	120.9	6.1	7.9	8.1
Brockton	83.2	84.4	84.4	7.1	9.7	9.8	8.6	11.5	11.6
Fall River ¹	74.0	76.2	74.4	6.5	9.1	10.4	8.8	12.0	14.0
Lawrence—Haverhill ¹	148.9	149.8	153.1	10.1	14.8	18.2	6.8	9.9	11.9
Lowell	130.2	132.7	134.6	8.5	10.9	11.5	6.5	8.2	8.5
New Bedford	87.8	86.7	90.3	7.9	11.3	14.0	9.0	13.1	15.5
Springfield—Chicopee—Holyoke	282.3	292.1	299.7	18.5	26.6	28.3	6.5	9.1	9.4
Worcester	202.1	204.9	213.1	12.6	19.9	24.1	6.3	9.7	11.3
MICHIGAN²	4,402.0	4,337.9	4,405.6	527.2	620.2	648.3	12.0	14.3	14.7
Ann Arbor	143.2	143.3	146.0	12.8	14.3	15.7	8.9	10.0	10.7
Battle Creek	82.3	84.2	86.8	9.1	13.1	15.4	11.1	15.5	17.8
Bay City	53.9	55.6	55.8	5.9	8.3	7.3	10.9	14.9	13.1
Detroit	2,038.1	1,985.0	2,015.2	257.0	286.2	306.8	12.6	14.4	15.2
Flint	227.1	229.9	230.8	33.0	42.7	41.0	14.5	18.6	17.8
Grand Rapids	329.6	334.8	339.1	30.3	37.5	39.1	9.2	11.2	11.5
Jackson	68.2	67.9	68.8	8.0	10.0	11.2	11.8	14.7	16.3
Kalamazoo—Portage	141.0	141.6	142.3	12.3	15.8	14.9	8.8	11.1	10.5
Lansing—East Lansing	251.9	247.7	249.0	28.6	29.8	30.8	11.4	12.0	12.4
Muskegon—Norton Shores—Muskegon Heights	81.3	82.4	83.2	10.4	14.4	14.2	12.8	17.4	17.0
Saginaw	104.2	104.8	105.0	12.8	16.4	15.9	12.3	15.6	15.2
MINNESOTA	2,189.1	2,208.5	2,182.2	106.3	160.3	160.7	4.9	7.3	7.4
Duluth—Superior ¹	114.2	113.7	115.0	7.8	17.2	21.9	6.9	15.1	19.1
Minneapolis—St. Paul	1,155.9	1,171.4	1,147.9	48.8	74.6	72.1	4.2	6.4	6.3
Rochester	58.6	58.8	58.4	2.1	3.4	3.0	3.7	5.8	5.2
St. Cloud	76.2	78.7	77.8	4.7	7.0	6.7	6.1	8.9	8.7
MISSISSIPPI	1,064.4	1,059.2	1,063.6	91.8	123.1	130.8	8.6	11.6	12.3
Jackson	160.9	160.8	159.0	10.4	13.0	13.8	6.5	8.1	8.7
MISSOURI	2,337.7	2,390.6	2,373.2	179.0	209.1	210.9	7.7	8.7	8.9
Kansas City ¹	690.2	688.8	681.7	43.6	58.4	52.3	6.3	8.5	7.7
St. Joseph	44.7	44.8	45.3	3.9	4.2	4.3	8.6	9.3	9.5
St. Louis ¹	1,133.7	1,147.9	1,149.7	94.8	109.5	110.3	8.4	9.5	9.6
Springfield	107.8	108.9	110.0	6.6	6.7	8.3	6.1	6.1	7.6
MONTANA	397.4	396.5	390.8	25.8	35.9	32.9	6.5	9.1	8.4
Billings	58.9	N.A.	59.9	3.0	N.A.	4.1	5.2	N.A.	6.8
Great Falls	34.8	N.A.	36.3	2.8	N.A.	3.0	8.0	N.A.	8.2
NEBRASKA	796.5	803.9	795.9	31.3	46.9	46.7	3.9	5.8	5.9
Lincoln	107.9	112.9	108.7	4.1	6.1	5.6	3.8	5.4	5.1
Omaha ¹	281.2	288.2	282.2	15.6	21.2	20.7	5.5	7.3	7.3
NEVADA	470.4	490.9	490.0	31.6	45.4	48.2	6.7	9.3	9.3
Las Vegas	259.2	272.8	271.3	20.2	28.8	30.1	7.8	10.6	11.1
Reno	129.6	134.7	135.2	6.5	9.3	10.4	5.0	6.9	7.7
NEW HAMPSHIRE	496.7	493.1	502.1	29.6	36.0	45.6	6.0	7.3	9.1
Manchester	85.6	85.5	87.7	6.2	6.5	10.5	7.3	7.6	12.0
Nashua	84.0	85.3	84.4	4.5	6.5	6.3	5.4	7.6	7.5
NEW JERSEY	3,635.8	3,667.2	3,711.1	246.7	314.2	311.9	6.8	8.6	8.4
Atlantic City	121.4	124.5	129.1	8.4	11.4	10.1	6.9	9.2	7.9
Jersey City	241.6	248.2	249.2	25.1	33.1	31.3	10.4	13.3	12.6
Long Branch—Asbury Park	252.2	257.5	262.8	15.6	21.1	20.2	6.2	8.2	7.7
New Brunswick—Perth Amboy—Sayreville	331.3	334.7	340.5	20.3	27.4	28.6	6.1	8.2	8.4
Newark	968.0	985.8	996.2	65.1	80.9	80.7	6.7	8.2	8.1
Paterson—Clifton—Passaic	209.7	212.3	214.5	18.8	23.3	24.2	9.0	11.0	11.3
Trenton	159.1	159.9	161.3	9.1	12.6	13.1	5.7	7.9	8.1
Vineland—Millville—Bridgeton	59.5	59.8	60.3	6.9	9.7	9.2	11.5	16.2	15.3
NEW MEXICO	580.7	589.4	596.4	41.2	59.7	60.0	7.1	10.1	10.1
Albuquerque	213.2	215.5	218.2	15.4	19.0	19.3	7.2	8.8	8.8
Las Cruces	34.5	37.1	37.1	2.9	4.2	4.2	8.3	11.3	11.2

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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		
	JUL. 1981	JUN 1982	JUL. 1982P	JUL. 1981	JUN 1982	JUL. 1982P	JUL. 1981	JUN. 1982	JUL. 1982P
NEW YORK²	8,191.7	8,128.5	8,243.9	637.0	694.6	699.8	7.8	8.5	8.5
Albany—Schenectady—Troy	379.3	382.0	385.0	22.2	26.3	26.3	5.9	6.9	6.8
Binghamton ¹	139.3	144.9	144.6	9.3	11.3	11.1	6.7	7.8	7.7
Buffalo	569.6	565.6	568.4	52.6	68.8	70.9	9.2	12.2	12.5
Elmira	39.6	39.7	39.9	3.0	5.0	4.9	7.5	12.6	12.3
Nassau-Suffolk	1,347.4	1,356.2	1,383.7	83.4	84.9	89.6	6.2	6.3	6.5
New York	3,771.0	3,689.1	3,738.0	333.2	334.8	333.5	8.8	9.1	8.9
New York City ²	3,140.0	3,059.0	3,095.0	302.0	303.0	301.0	9.6	9.9	9.7
Poughkeepsie	112.4	114.7	116.2	6.5	7.1	6.4	5.7	6.2	5.5
Rochester	476.4	485.0	492.3	28.0	34.0	34.6	5.9	7.0	7.0
Syracuse	300.8	302.0	304.3	19.9	24.5	24.4	6.6	8.1	8.0
Utica—Rome	137.4	138.5	141.8	10.0	11.8	12.9	7.3	8.5	9.1
NORTH CAROLINA	2,954.8	2,985.3	2,991.1	187.3	274.4	292.4	6.3	9.2	9.8
Asheville	93.2	93.1	93.9	5.6	6.8	7.0	6.0	7.3	7.5
Charlotte—Gastonia	374.8	381.2	381.9	18.4	26.2	29.1	4.9	6.9	7.6
Greensboro—Winston-Salem—High Point	450.9	461.6	456.2	26.6	42.8	36.4	5.9	9.3	8.0
Raleigh—Durham	309.8	317.1	315.4	12.0	14.0	13.7	3.9	4.4	4.3
NORTH DAKOTA	335.6	325.6	333.4	16.0	15.3	15.4	4.8	4.7	4.6
Fargo—Moorehead ¹	72.4	73.2	72.1	4.0	3.6	3.4	5.5	4.9	4.8
OHIO²	5,221.1	5,250.9	5,260.5	495.4	643.5	646.0	9.5	12.3	12.2
Akron	308.2	305.4	311.1	29.4	35.4	37.6	9.6	11.6	12.1
Canton	193.8	196.5	201.6	18.3	25.7	29.1	9.5	13.1	14.4
Cincinnati ¹	691.1	N.A.	N.A.	63.0	N.A.	N.A.	9.1	N.A.	N.A.
Cleveland	960.4	953.0	959.0	82.6	103.2	102.9	8.6	10.8	10.7
Columbus	573.9	582.0	581.8	45.8	53.8	52.9	8.0	9.2	9.1
Dayton	397.4	402.2	401.3	35.2	46.1	44.6	8.9	11.5	11.1
Toledo ¹	374.6	374.5	374.6	40.3	44.7	47.0	10.8	11.9	12.5
Youngstown—Warren	237.6	244.2	243.7	25.3	44.6	44.3	10.7	18.2	18.2
OKLAHOMA	1,449.7	1,510.3	1,492.2	49.3	86.1	89.0	3.4	5.7	6.0
Enid	31.0	30.0	29.6	.9	1.4	1.6	3.0	4.8	5.5
Lawton	34.3	35.5	35.0	1.4	1.9	1.9	4.0	5.3	5.4
Oklahoma City	446.5	473.5	464.9	13.5	24.0	22.8	3.0	5.1	4.9
Tulsa	358.8	371.3	368.8	12.0	23.5	24.6	3.4	6.3	6.7
OREGON	1,347.7	1,329.9	1,312.1	121.4	145.1	135.8	9.0	10.9	10.3
Eugene—Springfield	137.2	136.0	130.7	14.2	15.9	15.1	10.3	11.7	11.5
Portland ¹	665.5	657.8	653.1	52.1	65.2	62.0	7.8	9.9	9.5
Salem	128.8	128.0	130.5	9.8	12.4	10.8	7.6	9.7	8.3
PENNSYLVANIA²	5,597.0	5,457.5	5,585.0	454.7	563.2	596.2	8.1	10.3	10.7
Allentown—Bethlehem—Easton ¹	320.3	309.7	313.2	25.8	29.0	31.6	8.0	9.4	10.1
Altoona	60.5	57.2	58.5	6.9	5.7	5.5	11.3	9.9	9.4
Erie	128.4	123.5	127.1	13.8	14.4	15.2	10.7	11.7	11.9
Harrisburg	242.7	238.3	246.6	14.2	13.0	15.9	5.8	5.5	6.4
Johnstown	108.9	105.5	109.0	12.2	15.9	18.9	11.2	15.0	17.3
Lancaster	188.4	186.2	189.3	9.8	12.7	14.1	5.2	6.8	7.4
Northeast Pennsylvania	295.0	283.4	290.4	28.3	28.1	33.4	9.6	9.9	11.5
Philadelphia ¹	2,228.1	2,174.7	2,221.5	170.8	185.3	186.6	7.7	8.5	8.4
Pittsburgh	1,061.4	1,033.9	1,058.8	73.7	123.8	130.8	6.9	12.0	12.4
Reading	161.2	159.2	159.9	13.8	14.9	15.8	8.6	9.4	9.9
Williamsport	55.6	52.4	52.8	7.3	5.5	6.4	13.1	10.5	12.1
York	183.6	182.5	185.5	14.7	22.2	20.9	8.0	12.2	11.3
RHODE ISLAND	477.6	479.3	478.3	41.1	44.7	49.9	8.6	9.3	10.4
Providence—Warwick—Pawtucket ¹	469.3	472.6	470.6	40.8	46.4	52.2	8.7	9.8	11.1
SOUTH CAROLINA	1,443.2	1,513.5	1,492.2	125.5	174.0	175.2	8.7	11.5	11.7
Charleston—North Charleston	174.8	189.7	184.3	14.6	17.7	17.4	8.3	9.3	9.4
Columbia	185.2	194.6	193.9	11.9	13.6	16.6	6.4	7.0	8.5
Greenville—Spartanburg	285.0	303.8	295.8	21.8	32.2	30.7	7.7	10.6	10.4
SOUTH DAKOTA	348.3	341.8	335.4	17.0	18.1	15.3	4.9	5.3	4.5
Sioux Falls	62.3	62.4	61.0	3.1	3.3	2.3	5.0	5.3	3.8
TENNESSEE	2,108.7	2,103.2	2,121.2	188.9	234.8	246.7	9.0	11.2	11.6
Chattanooga ¹	197.7	206.2	206.1	16.6	24.9	25.1	8.4	12.1	12.2
Knoxville	224.5	230.8	231.8	16.5	17.7	18.3	7.3	7.7	7.9
Memphis ¹	409.1	407.0	N.A.	35.1	40.4	N.A.	8.6	9.9	N.A.
Nashville—Davidson	431.6	421.0	423.9	29.3	36.3	36.2	6.8	8.6	8.5

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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		
	JUL. 1981	JUN. 1982	JUL. 1982P	JUL. 1981	JUN. 1982	JUL. 1982P	JUL. 1981	JUN. 1982	JUL. 1982P
TEXAS¹	7,141.6	7,400.2	7,393.7	391.3	572.2	542.4	5.5	7.7	7.3
Dallas—Fort Worth	1,677.5	1,757.9	1,752.9	87.7	126.9	110.2	5.2	7.2	6.3
Houston	1,687.2	1,753.7	1,756.4	77.5	125.1	125.3	4.6	7.1	7.1
San Antonio	463.1	478.0	475.8	31.8	42.3	38.1	6.9	8.9	8.0
UTAH	646.6	672.7	669.8	40.7	49.7	49.9	6.3	7.4	7.5
Salt Lake City—Ogden	426.6	437.4	436.7	27.0	31.3	31.2	6.3	7.2	7.1
VERMONT	263.8	266.5	272.5	15.0	19.1	18.9	5.7	7.2	6.9
VIRGINIA	2,638.7	2,673.3	2,662.5	163.1	197.9	202.9	6.2	7.4	7.6
Lynchburg	73.8	76.4	76.1	4.8	6.3	6.3	6.5	8.2	8.3
Newport News—Hampton	170.5	173.6	173.1	11.4	11.5	11.0	6.7	6.6	6.4
Norfolk—Virginia Beach—Portsmouth ¹	341.2	345.3	346.0	22.0	24.7	24.7	6.4	7.2	7.1
Petersburg—Colonial Heights—Hopewell	57.7	60.6	59.3	4.8	5.2	5.2	8.3	8.6	8.8
Richmond	336.3	344.1	340.8	15.1	20.5	20.0	4.5	6.0	5.9
Roanoke	112.6	112.7	112.9	7.0	8.0	9.1	6.2	7.1	8.1
WASHINGTON	2,001.4	2,019.8	2,002.6	185.2	246.6	244.6	9.3	12.2	12.2
Seattle—Everett	867.6	880.2	876.4	68.8	95.5	96.7	7.9	10.9	11.0
Spokane	148.6	149.8	148.3	14.2	18.3	18.7	9.6	12.2	12.6
Tacoma	177.8	182.1	183.9	16.8	23.0	23.3	9.4	12.6	12.7
WEST VIRGINIA	794.2	781.7	793.3	77.0	96.4	108.7	9.7	12.3	13.7
Charleston	128.4	125.9	127.2	9.9	10.9	11.9	7.7	8.6	9.4
Huntington—Ashland ¹	129.1	125.5	N.A.	13.7	16.5	N.A.	10.6	13.2	N.A.
Parkersburg—Marietta ¹	74.8	74.9	76.0	6.4	9.8	10.3	8.6	13.1	13.5
Wheeling ¹	83.9	83.6	84.2	6.8	10.2	11.0	8.1	12.2	13.1
WISCONSIN	2,396.6	2,462.8	2,470.3	171.9	250.9	249.2	7.2	10.2	10.1
Appleton—Oshkosh	149.5	154.6	153.4	10.1	16.3	14.9	6.7	10.5	9.7
Eau Claire	58.1	60.4	60.1	4.3	5.6	5.2	7.4	9.3	8.6
Green Bay	91.4	95.1	95.2	6.8	9.0	8.9	7.4	9.5	9.4
Janeville—Beloit	72.5	75.9	74.4	7.6	11.3	10.4	10.5	14.9	14.0
Kenosha	58.9	54.9	60.4	5.0	5.5	5.4	8.5	10.0	9.0
LaCrosse	48.4	50.4	50.2	3.2	4.0	4.2	6.6	7.9	8.4
Madison	183.5	191.3	190.7	9.7	13.1	12.3	5.3	6.8	6.5
Milwaukee	719.3	743.2	739.1	50.4	76.8	75.7	7.0	10.3	10.2
Racine	87.0	87.8	87.7	7.5	12.2	12.1	8.6	13.9	13.8
WYOMING	261.3	268.4	262.4	9.3	14.2	14.7	3.5	5.3	5.6

¹ Includes interstate portion of area located in adjacent State.
² Data are obtained directly from the Current Population Survey. (See "Explanatory Notes" for State and Area Unemployment Data in Employment and Earnings, monthly.)

becomes available. Data refer to place of residence.
 p = preliminary.
 N.A. = not available.

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

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

Labor force and unemployment estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The report "Employment and Unemployment in States and Local Areas" is published monthly through GPO and is available on microfiche only on a subscription basis.

Explanatory Notes

Introduction

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

Data based on household interviews are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 60,000 households, representing 629 areas in 1,148 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

Data based on establishment records are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonagricultural wage and salary employment, average weekly hours, average hourly earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are based on payroll reports from a sample of establishments employing over 30 million nonagricultural wage and salary workers. The data relate to all workers, full- or part-time, who received pay during the payroll period which includes the 12th day of the month.

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

Data from these two sources differ from each other because of differences in definitions and coverage, sources of information, methods of collection, and estimating procedures. Sampling variability and response errors are additional reasons for discrepancies. The major factors which have a differential effect on levels and trends of the two series are as follows.

Employment

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

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

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

Unpaid absences from jobs. The household survey includes among the employed all persons who had jobs but were not at work during the survey week—that is, were not working but had jobs from which they were temporarily absent because of illness, bad weather, vacation, labor-management dispute, or because they were taking time off for various other reasons, even if they were not paid by their employers for the time off. In the figures based on payroll reports, persons on leave paid for by the company are included, but not those on leave without pay for the entire payroll period.

For a comprehensive discussion of the differences between household and establishment survey employment data, see Gloria P. Green's article "Comparing Employment Estimates from Household and Payroll Surveys," *Monthly Labor Review*, December 1969.

Hours of work

The household survey measures hours actually worked whereas the payroll survey measures hours paid for by employers. In the household survey data, all persons with a job but not at work are excluded from the hours distributions and the computations of average hours. In the payroll survey, production or nonsupervisory employees on paid vacation, paid holiday, or paid sick leave are included and assigned the number of hours for which they were paid during the reporting period.

Earnings

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

COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

Unemployment insurance data. The unemployed total from the household survey includes all persons who did not have a job at all during the survey week and were looking for work or were waiting to be called back to a job from which they had been laid off, whether or not they were eligible for unemployment insurance. Figures on unemployment insurance claims, prepared by the Employment and Training Administration of the Department of Labor, exclude persons

who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (some workers in agriculture, domestic services, and religious organizations, and self employed and unpaid family workers). Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

In addition, the qualifications for drawing unemployment compensation differ from the definition of unemployment used in the household survey. For example, persons with a job but not at work and persons working only a few hours during the week are sometimes eligible for unemployment compensation but are classified as employed rather than unemployed in the household survey.

For an examination of the similarities and differences between State insured unemployment and total unemployment, see "Measuring Total and State Insured Unemployment" by Gloria P. Green in the June 1971 issue of the *Monthly Labor Review*.

Agricultural employment estimates of the Department of Agriculture. The principal differences in coverage are the inclusion of persons under 16 in the Statistical Research Service (SRS) series and the treatment of dual jobholders who are counted more than once if they work on more than one farm during the reporting period. There are also wide differences in sampling techniques and collecting and estimating methods, which cannot be readily measured in terms of impact on differences in level and trend of the two series.

COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

Statistics on manufactures and business, Bureau of the Census. BLS establishment statistics on employment differ from employment

counts derived by the Bureau of Census from its censuses or annual sample survey of manufacturing establishments and the censuses of business establishments. The major reasons for some noncomparability are different treatment of business units considered parts of an establishment, such as central administrative offices and auxiliary units, the industrial classification of establishments, and different reporting patterns by multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes professional services, public utilities, and financial establishments, whereas these are included in the BLS statistics.

County Business Patterns. Data in County Business Patterns (CBP), published by the Bureau of the Census, U.S. Department of Commerce, differ from BLS establishment statistics in the treatment of central administrative offices and auxiliary units. Differences may also arise because of industrial classification and reporting practices. In addition, CBP excludes interstate railroads and government, and coverage is incomplete for some of the nonprofit activities.

Employment covered by State unemployment insurance programs. Most nonagricultural wage and salary workers are covered by the unemployment insurance programs. Beginning in January 1972, coverage was expanded to include employees of small firms and selected nonprofit activities who had not been covered previously. However, certain activities, such as interstate railroads, parochial schools, and churches are not covered by unemployment insurance whereas these are included in the BLS establishment statistics. Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

Household Data (A tables)

COLLECTION AND COVERAGE

Statistics on the employment status of the population, the personal, occupational, and other characteristics of the employed, the unemployed, and persons not in the labor force, and related data are compiled for the BLS by the Bureau of the Census in its Current Population Survey (CPS). A detailed description of this survey appears in *Concepts and Methods Used in Labor Force Statistics Derived from the Current Population Survey*, BLS Report 463. This report is available from BLS upon request.

These monthly surveys of the population are conducted with a scientifically selected sample designed to represent the civilian noninstitutional population. Respondents are interviewed to obtain information about the employment status of each member of the household 16 years of age and over. Separate statistics are also collected and published for 14- and 15-year-olds. The inquiry relates to activity or status during the calendar week, Sunday through Saturday, which includes the 12th of the month. This is known as the survey week. Actual field interviewing is conducted in the following week.

Inmates of institutions, members of the Armed Forces, and persons under 14 years of age are not covered in the regular monthly enumerations and are excluded from the population and labor force statistics shown in this report. Data on members of the Armed Forces, who are

included as part of the categories "total noninstitutional population" and "total labor force," are, however, obtained from the Department of Defense.

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

Beginning in September 1975, the sample was enlarged by 9,000 households in order to provide greater reliability for smaller States and thus permit the publication of annual statistics for all 50 States and the District of Columbia. These supplementary households were added to the national 47,000 household sample in January 1978.

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

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

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

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

CONCEPTS

Employed persons comprise (a) all those who during the survey week did any work at all as paid employees, in their own business, profession, or farm, or who worked 15 hours or more as unpaid workers in an enterprise operated by a member of the family, and (b) all those who were not working but who had jobs or businesses from which they were temporarily absent because of illness, bad weather, vacation, labor-management dispute, or personal reasons, whether or not they were paid by their employers for the time off, and whether or not they were seeking other jobs.

Each employed person is counted only once. Those who held more than one job are counted in the job at which they worked the greatest number of hours during the survey week.

Included in the total are employed citizens of foreign countries, temporarily in the United States, who are not living on the premises of an embassy.

Excluded are persons whose only activity consisted of work around the house (such as home housework, and painting or repairing own home) or volunteer work for religious, charitable, and similar organizations.

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

Duration of unemployment represents the length of time (through the current survey week) during which persons classified as unemployed had been continuously looking for work. For persons on layoff, duration of unemployment represents the number of full weeks since the termination of their most recent employment. A period of 2 weeks or more during which a person was employed or ceased looking for work is considered to break the continuity of the present period of seeking work. Measurements of mean and median duration are computed from a distribution of single weeks of unemployment.

Unemployed persons by reasons for unemployment are divided into four major groups. (1) Job losers are persons whose employment ended involuntarily who immediately began looking for work and persons on layoff. (2) Job leavers are persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work. (3) Reentrants are persons who previously worked at a full-time job lasting 2 weeks or longer but were out of the labor force prior to beginning to look for work. (4) New entrants are persons who never worked at a full-time job lasting 2 weeks or longer.

Jobseekers are all unemployed persons who made specific efforts to find a job, sometime during the 4-week period preceding the survey week. Jobseekers do not include persons unemployed because they (a) were waiting to be called back to a job from which they had been laid off or (b) were waiting to report to a new wage or salary job within 30 days. Jobseekers are grouped by the methods used to seek work, including going to a public or private employment agency or to an employer directly, seeking assistance from friends or relatives, placing or answering ads, or utilizing some "other" method. Examples of the "other" category include being on a union or professional register, obtaining assistance from a community organization, or waiting at a designated pick-up point.

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

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

The *unemployment rate* represents the number unemployed as a percent of the civilian labor force. This measure can also be computed for groups within the labor force classified by sex, age, marital status, race, occupation, industry, etc. The job-loser, job-leaver, reentrant, and new entrant rates are each calculated as a percent of the civilian labor force; the sum of the rates for the four groups thus equals the total unemployment rate.

Participation rates represent the proportion of the noninstitutional population that is in the labor force. Two types of participation rates are published. The total labor force participation rate, which is the ratio of the total labor force and the total noninstitutional population; and the civilian labor force participation rate which is the ratio of the civilian labor force and the civilian noninstitutional population. Participation rates are usually published for sex-age groups, often cross-classified by other demographic characteristics such as race and educational attainment.

Employment-population ratios represent the proportion of the total noninstitutional population that is employed.

Not in labor force includes all civilians 16 years and over who are not classified as employed or unemployed. These persons are further classified as "engaged in own home housework," "in school," "unable to work" because of long-term physical or mental illness, and "other." The "other" group includes for the most part retired persons, those reported as too old to work, the voluntarily idle, and seasonal workers for whom the survey week fell in an "off" season and who were not reported as unemployed. Persons doing only incidental unpaid family work (less than 15 hours) are also classified as not in the labor force.

For persons not in the labor force, data on previous work experience, intentions to seek work again, desire for a job at the time of interview, and reasons for not looking for work are compiled on a quarterly basis. As of January 1970, the detailed questions for persons not in the labor force are asked only in those households that are in the fourth and eighth months of the sample, i.e., the "outgoing" groups, those which had been in the sample for 3 previous months and would not be in for the subsequent month. Between 1967 and 1969, the detailed not-in-labor force questions were asked of persons in the first and fifth months in the sample, i.e., the "incoming" groups.

Occupation, industry, and class of worker for the employed apply to the job held in the survey week. Persons with two or more jobs are classified in the job at which they worked the greatest number of hours during the survey week. The unemployed are classified according to their last full-time civilian job lasting 2 weeks or more. The occupation and industry groups used in the CPS are defined as in the 1970 Census of Population. Information on the detailed categories included in these groups is available upon request.

The class-of-worker breakdown specifies "wage and salary workers," subdivided into private and government workers, "self-employed workers," and "unpaid family workers." Wage and salary workers receive wages, salary, commission, tips, or pay in kind from a private employer or from a government unit. Self-employed persons are those who work for profit or fees in their own business, profession, or trade, or operate a farm. Unpaid family workers are persons working without pay for 15 hours a week or more on a farm or in a business operated by a member of the household to whom they are related by blood or marriage.

Hours of work statistics relate to the actual number of hours worked during the survey week. For example, a person who normally works 40 hours a week but who was off on the Columbus Day holiday would be reported as working 32 hours even though he/she was paid for the holiday.

For persons working in more than one job, the figures relate to the number of hours worked in all jobs during the week. However, all the hours are credited to the major job.

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

Persons who worked 35 hours or more in the survey week are designated as working "full time," correspondingly persons who worked between 1 and 34 hours are designated as working "part time." Part-time workers are classified by their usual status at their present job (either full or part time) and by their reason for working part time during the survey week (economic or other reasons). "Economic reasons" include: Slack work, material shortages, repairs to plant or equipment, start or termination of a job during the week, and inability to find full-time work. "Other reasons" include: Labor dispute, bad weather, own illness, vacation, demands of home, housework, school, no desire for full-time work, and full-time worker only during the peak season. Persons on full-time schedules include, in addition to those working 35 hours or more, those who worked from 1 to 34 hours for noneconomic reasons and usually work full time.

The *full-time labor force* consists of persons working on full-time schedules, persons involuntarily working part-time (part time for economic reasons), and unemployed persons seeking full-time jobs. The *part-time labor force* consists of persons working part time voluntarily and unemployed persons seeking part-time work. Persons with a job but not at work during the survey week are classified according to whether they usually work full or part-time.

Labor force time lost is a measure of aggregate hours lost to the economy through unemployment and involuntary part-time employment and is expressed as a percent of potentially available aggregate hours. It is computed by assuming: (1) That unemployed persons looking for full-time work lost an average of 37.5 hours (2) that those looking for part-time work lost the average number of hours actually worked by voluntary part-time workers during the survey week, and (3) that persons on part time for economic reasons lost the difference between 37.5 hours and the actual number of hours they worked.

White and black and other are terms used to describe the race of workers. The "black-and-other category," includes all persons who identified themselves in the enumeration process to be other than white. At the time of the 1980 Census of Population, 83 percent of the black-and-other civilian noninstitutional population 16 years and over were black; the remainder were primarily American Indians, Alaskan Natives, and Asians and Pacific Islanders. The term "black" is used in this volume when the relevant data are provided exclusively for the black population.

Hispanic origin refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican living on the mainland, Cuban, Central or South American, or of other Hispanic origin or descent.

Major activity: going to school and major activity: other are terms used to describe whether the activity of young persons during the reference week is primarily one of going to school or not. Statistics on major activity are published every month in table A-7 for 16- to 21-year-olds by employment status, race, and sex, and, if unemployed, whether seeking full- or part-time work.

Vietnam-era veterans are those who served in the Armed Forces of the United States between August 5, 1964, and May 7, 1975. Tables for veterans in this volume are limited to males in the civilian noninstitutional population, i.e., veterans in institutions and females are excluded.

Nonveterans are males who never served in the Armed Forces.

The *poverty areas* classification consists of all Census geographical divisions in which 20 percent or more of the residents were poor according to the 1970 Decennial Census. Persons were classified as poor or nonpoor by using income thresholds adopted by a Federal in-

teragency committee in 1969. These thresholds vary by family size, composition, and residence (farm-nonfarm). While poverty areas have a substantial concentration of low-income residents, many poor persons live outside these areas and, conversely, the areas include many people who are not poor.

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

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

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

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

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

HISTORIC COMPARABILITY

Raised lower age limit

Beginning with data for 1967, the lower age limit for official statistics on persons in the labor force was raised from 14 to 16 years. A detailed discussion of this and other definitional changes introduced at that time including estimates of their effect on the various series, is contained in "New Definitions for Employment and Unemployment" by Robert L. Stein in the February 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*.

Noncomparability of labor force levels

Before the changes introduced in 1967, the labor force data were not comparable for three earlier periods: (1) Beginning in 1953, as a result of the introduction of data from the 1950 census into the estimation procedure, population levels were raised by about 600,000; labor force, total employment, and agricultural employment by about 350,000, primarily affecting the figures for totals and males; other categories were relatively unaffected; (2) beginning in 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force, four-fifths of this in nonagricultural employment; other labor force categories were not appreciably affected; (3) beginning in 1962, the introduction of figures from the 1960 census reduced the population by about 50,000, labor force and employment by about 200,000; unemployment totals were

virtually unchanged. In addition, beginning in 1972, information from the 1970 census was introduced into the estimation procedures, producing an increase in the civilian noninstitutional population of about 800,000; labor force and employment totals were raised by a little more than 300,000, and unemployment levels and rates were essentially unchanged. A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment affected the white and black and other groups but had little effect on totals. The adjustment resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black and other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black and other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

Beginning in January 1974, the methodology used to prepare independent estimates of the civilian noninstitutional population was modified to an "inflation-deflation" approach. This change in the derivation of the population estimates had its greatest impact on estimates of 20- to 24-year-old males—particularly those of the black-and-other population—but had little effect on 16 and over totals. Additional information on the adjustment procedure appears in "CPS Population Controls Derived from Inflation-Deflation Method of Estimation" in the February 1974 issue of *Employment and Earnings*.

Effective July 1975, as a result of the immigration of Vietnamese refugees into the United States, the total and black-and-other independent population controls for persons 16 years and over were adjusted upward by 76,000—30,000 males and 46,000 females. The addition of the refugees increased the black-and-other population by less than 1 percent in any age-sex group, and all of the changes were in the "other" population.

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

Beginning in October 1978, the race of the individual was determined by the household respondent for the incoming rotation group households, rather than determined by the interviewer as before. The purpose of this change was to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households had race determined by the household respondent and seven-eighths of the sample households had race determined by interviewer observation. It was not until January 1980 that the entire sample had race determined by the household respondent. The new procedure had no significant effect on the estimates.

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

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

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

Changes in the occupational classification system

Beginning with 1971, the comparability of occupational employment data was affected as a result of changes in census occupational classifications introduced into the Current Population Survey (CPS). These changes stemmed from an exhaustive review of the classification system to be used for the 1970 Census of Population. The purpose of this review, the most comprehensive since the 1940 census, was to reduce the size of larger groups, to be more specific about general and "not elsewhere classified" groups, and to provide information on emerging significant occupations. Differences in March 1970 employment levels tabulated on both the 1960 and 1970 classification systems ranged from a drop 650,000 in operatives to an increase of 570,000 in service workers, much of which resulted from a shift between these two groups; the nonfarm laborers group increased by 420,000, and changes in other groups amounted to 220,000 or less.

An additional major group was created by splitting the operatives category into two: Operatives, except transport, and transport equipment operatives. Separate data for these two groups first became available in January 1972. At the same time, several changes in titles, as well as in order of presentation, were introduced; for example, the title of the managers, officials, and proprietors group was changed to "managers and administrators, except farm," since only proprietors performing managerial duties are included in the category.

Apart from the effects of revisions in the occupational classification system beginning in 1971, comparability of occupational employment data was further affected in December 1971, when a question eliciting information on major activities or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. This change resulted in several dramatic occupational shifts, particularly from managers and administrators to other groups. Thus, meaningful comparisons of occupational levels cannot always be made for 1972 and subsequent years with earlier periods. However, revisions in the occupational classification system as well as in the CPS questionnaire are believed to have had but a negligible impact on unemployment rates.

Additional information on changes in the occupational classification system of the CPS appears in "Revisions in Occupational Classifications for 1971" and "Revisions in the Current Population Survey" in the February 1971 and February 1972 issues, respectively, of *Employment and Earnings*.

Changes in sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, occasionally the sample is expanded in terms of number of sample areas and number of sample persons. In 1953, a rotation plan was introduced in which a sample unit would be interviewed for 4 months, leave the sample for 8 months, and then return to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to the sample to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area

sampling. Following the 1970 census, the ultimate sampling unit was changed from a noncontiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated with the existing design. A coverage improvement sample, composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 60,000 new construction house units, was included in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction housing units that previously had no chance for selection in the CPS sample. In January 1980 another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added to the existing sample. A sample reduction of about 6,000 units was implemented in May 1981. In January 1982, about 100 occupied units were added to provide sufficient coverage in counties added to SMSA's which were redefined in 1973.

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

ESTIMATING METHODS

Under the estimating methods used in the CPS, all of the results for a given month become available simultaneously and are based on returns from the entire panel of respondents. The CPS estimation procedure involves weighting the data from each sample person. The basic weight, which is the inverse of the probability of the person being in the sample, is a rough measure of the number of actual persons that the sample person represents. In States supplemented in the 1978 and 1980 expansions, almost all sample persons within the sample area have the same basic weight, but the weight may differ across sample areas. The basic weight is the same for almost all sample persons in unsupplemented States. The basic weights are then adjusted for noninterview, and the ratio estimation procedure is applied.

1. Noninterview adjustment. The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondent for other reasons. This adjustment is made separately by combinations of sample areas within each State and the District of Columbia, and within these, for six groups—two race categories (white, and black and other) within three residence categories. For sample areas which are Standard Metropolitan Statistical Areas (SMSA's), these

residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 4 to 5 percent depending on weather, vacations, etc.

2. Ratio estimates. The distribution of the population selected for the sample may differ somewhat, by chance, from that of the population as a whole, in such characteristics as age, race, sex, and residence. Since these characteristics are closely correlated with labor force participation and other principal measurements made from the sample, the survey estimates can be substantially improved when weighted appropriately by the known distribution of these population characteristics. This is accomplished through two stages of ratio estimates as follows:

a. First-stage ratio estimate. In the CPS, a portion of the 629 sample areas is chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The procedure is performed at two geographic levels: First, by the four census regions (Northeast, North Central, South, and West), and second, for each of the 46 States which contains nonsample areas. The procedure corrects for the differences that existed at the time of the 1970 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. The regional adjustment is performed by metropolitan-nonmetropolitan residence and race, while the State adjustment is done by urban-rural status and race.

b. Second-stage ratio estimate. In this stage, the sample proportions in the categories described below are adjusted to the distribution of independent current estimates of the civilian noninstitutional population in the same categories. The second-stage ratio estimate is performed in order to increase the reliability of the estimates and is carried out in two steps. In the first step, the sample estimates are adjusted within each State and the District of Columbia to an independent control for the population 16 years and over, for the State. The second step of the adjustment is applied to all sample persons and is a weighting to nationwide independent population estimates of the civilian noninstitutional population within 68 age-sex-race groups. The entire second-stage ratio estimation procedure is iterated six times, each time beginning at the weights developed the previous time. This iteration ensures that the sample estimates both of the State population and of the national age-sex-race categories will be virtually equal to the independent population estimates. This second stage adjustment procedure incorporates changes instituted in January 1982. The nature of these changes is discussed in detail in "Revisions in the

Table A. Characteristics of the CPS sample

Time period	Number of sample areas	Households eligible		Households visited not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	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 latest available July 1 estimate, adjusted as a last step to a current estimate of the U.S. population of this group. State estimates by age for July 1 are published annually in *Current Population Reports*, Series P-25. For a description of the methodology used in developing the State total, use Report 640 of that series. Descriptions of the age estimates methodology are available on request from the Chief of the Population Division, U.S. Bureau of the Census; Washington, D.C. 20233.

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

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

3. Composite estimate procedure. In deriving statistics for a given month, a composite estimating procedure is used which takes account of net changes from the previous month for continuing parts of the sample (75 percent) as well as the sample results for the current month. Almost all estimates of month-to-month change are improved by this procedure, and most estimates of levels are also improved, but to a lesser extent.

Rounding of estimates

The sums of individual items may not always equal the totals shown in the same tables because of independent rounding of totals and components to the nearest thousand. Differences, however, are insignificant.

Reliability of the estimates

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

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

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

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

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

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Overall undercoverage as compared to the level of the decennial census, is about 5 percent. It is known that the CPS undercoverage varies with age, sex, and race. Generally, undercoverage is larger for males than for females, and larger for black and other races combined than for whites. Ratio estimation to independent age-sex-race population controls, as described previously, partially corrects for the biases due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race group. Further, the independent population controls used have not been adjusted for undercoverage in the 1980 census.

Additional information on nonsampling error in the CPS appears in the paper, "An Error Profile: Employment as Measured by the Current Population Survey," by Camilla Brooks and Barbara Bailar, Statistical Policy Working Paper 3, U.S. Department of Commerce, Office of Federal Statistical Policy and Standards; in the paper "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Vol. 2, April 1973; and in the *The Current Population Survey, Design and Methodology*, Technical Paper No. 40, Bureau of the Census, U.S. Department of Commerce. This last document includes a comprehensive and up-to-date discussion of various sources of error, and describes attempts to measure them in the CPS.

Sampling error. The standard error is primarily a measure of sampling variability, that is, of the variation that occurs by chance because a sample rather than the entire population is surveyed. The sample estimate and its estimated standard error enable one to construct confidence intervals, ranges that would include the average of all possible samples with a known probability. For example, if all possible samples were selected, each of these surveyed under essentially the same general conditions and using the same 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 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:

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

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

Illustration:

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

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

or about 259,000.

Table C. Standard errors for unemployment rates by major characteristics

Selected categories	Standard error of-		Selected categories	Standard error of-	
	Monthly level	Consecutive month change		Monthly level	Consecutive month change
Total (all civilian workers)	0.12	0.12	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	Characteristic ¹								
	Agricultural employment	Labor force data other than unemployment and agricultural employment data						Unemployment	
		Total or white	Black and other	Total or white, 16-19 years	Black and other, 16-19 years	Total or white males only, or females only	Black and other males only, or females only	Total or white	Black and other
50	13	10	10	10	10	9	9	10	11
100	18	14	14	14	14	13	13	14	15
500	41	32	32	32	28	30	29	31	33
1,000	57	45	44	44	33	42	40	44	46
2,000	81	64	60	60	13	59	52	62	63
4,000	113	90	79	77	-	82	60	87	83
6,000	137	109	88	84	-	99	53	106	93
8,000	-	125	90	84	-	113	16	122	-
10,000	-	139	87	76	-	124	-	135	-
15,000	-	166	36	-	-	146	-	163	-
20,000	-	188	-	-	-	161	-	182	-
30,000	-	219	-	-	-	177	-	-	-
40,000	-	249	-	-	-	178	-	-	-
50,000	-	253	-	-	-	164	-	-	-
60,000	-	260	-	-	-	131	-	-	-
70,000	-	260	-	-	-	49	-	-	-
80,000	-	254	-	-	-	-	-	-	-
100,000	-	221	-	-	-	-	-	-	-
120,000	-	143	-	-	-	-	-	-	-

¹ When determining the standard error of an estimate for a group which is a subset of the age, sex, 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	8.18	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	6.89	6.97	7.33
500 .....	.65	.91	1.42	1.96	2.33	2.81	2.82	2.99	3.12	3.28
1,000 .....	.46	.65	1.01	1.38	1.85	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	.87	.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	.18	.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	8.12	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	.88	.81	.91	.99	1.04	1.09	1.14
6,000 .....	.19	.26	.41	.56	.66	.74	.81	.85	.89	.93
10,000 .....	.14	.20	.31	.43	.51	.58	.62	.66	.69	.73
20,000 .....	.10	.14	.22	.31	.36	.41	.44	.47	.49	.51
40,000 .....	.07	.10	.16	.22	.26	.29	.31	.33	.34	.36
60,000 .....	.06	.08	.13	.18	.21	.24	.25	.27	.28	.29
80,000 .....	.05	.07	.11	.15	.18	.20	.22	.23	.24	.25
100,000 .....	.05	.06	.10	.14	.16	.18	.20	.21	.22	.23
160,000 .....	.04	.05	.08	.11	.13	.14	.16	.17	.17	.18

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

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

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

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

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

Table K. Standard errors for estimates of quarterly level

(In thousands)

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

Establishment Data (B and C tables)

COLLECTION

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

Federal-State cooperation

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

Shuttle schedules

Form BLS 790—Report on Employment, Payroll, and Hours is the name of the data collection schedule. The collection agency returns the schedule to the respondent each month so that the next month's data can be entered on the space allotted for that month. This "shuttle" procedure assures maximum comparability and accuracy of reporting, since the respondent can see the figures that have been reported for previous months.

Form BLS 790 provides for entry of data on the total number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, employment, payroll, and hours of production and related workers or nonsupervisory workers for pay period which includes the 12th of the month.

CONCEPTS

Industrial classification

Establishments reporting on Form BLS 790 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. Since January 1980, this information is collected on a supplement to the quarterly unemployment insurance tax reports filed by employers. For an establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the industry indicated by the principal product or activity.

All data on employment, hours, and earnings for the Nation and for States and areas are classified in accordance with the 1972 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget. The BLS tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sector.

Industry employment

Employment data, except those for the Federal Government, refer to persons on establishment payrolls who received pay for any part of the pay period which includes the 12th of the month. For Federal Government establishments, employment figures represent the number of persons who occupied positions on the last day of the calendar month. Intermittent workers are counted if they performed any service during the month.

The data exclude proprietors, the self-employed, unpaid volunteer or family workers, farm workers, and domestic workers in households. Salaried officers of corporations are included. Government employment covers only civilian employees; military personnel are excluded. Employees of the Central Intelligence and National Security Agencies are also excluded.

Persons on establishment payrolls who are on paid sick leave (when pay is received directly from the firm), on paid holiday, on paid vacation, or who work during a part of the pay period even though they are unemployed or on strike during the rest of the period are counted as employed. Not counted as employed are persons who are on layoff, on leave without pay, on strike for the entire period, or who were hired but have not yet reported during the period.

Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in construction, and nonsupervisory employees in private service-producing industries.

Production and related workers include working supervisors and all nonsupervisory workers (including group leaders and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, trucking, hauling, maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., power plant), record-keeping, and other services closely associated with the above production operation.

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

Nonsupervisory employees include employees (not above the working supervisory level) such as office and clerical workers, repairers, salespersons, operators, drivers, physicians, lawyers, accountants, nurses, social workers, research aides, teachers, drafters, photographers, beauticians, musicians, restaurant workers, custodial workers, attendants, line installers and repairers, laborers, janitors, guards, and other employees at similar occupational levels whose services are closely associated with those of the employees listed.

Payroll covers the payroll for full- and part-time production, construction, or nonsupervisory workers who received pay for any part of the pay period which includes the 12th of the month. The payroll is reported before deductions of any kind, e.g., for old-age and unemployment insurance, group insurance, withholding tax, bonds, or union dues; also included is pay for overtime, holidays, vacations, and sick leave paid directly by the firm. Bonuses (unless earned and paid regularly each pay period); other pay not earned in the pay period reported (e.g., retroactive pay); tips; and the value of free rent, fuel, meals, or other payment in kind are excluded. "Fringe benefits" (such as health and other types of insurance, contributions to retirement, etc., paid by the employer) are also excluded.

Hours cover the hours paid for during the pay period which includes the 12th of the month for production, construction, or nonsupervisory workers. Included are hours paid for holidays, vacations, and for sick leave when pay is received directly from the firm.

Overtime hours covers hours worked by production or related workers for which overtime premiums were paid because the hours were in excess of the number of hours of either the straight-time workday or the workweek during the pay period which includes the 12th of the month. Weekend and holiday hours are included only if overtime premiums were paid. Hours for which only shift differential, hazard, incentive, or other similar types of premiums were paid are excluded. *Gross average hourly and weekly earnings.* Average hourly earnings are on a "gross" basis. They reflect not only changes in basic hourly and incentive wage rates but also such variable factors as premium pay for overtime and late-shift work and changes in output of workers

paid on an incentive plan. They also reflect shifts in the number of employees between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments. Averages for groups and divisions further reflect changes in average hourly earnings for individual industries.

Averages of hourly earnings differ from wage rates. Earnings are the actual return to the worker for a stated period of time; rates are the amount stipulated for a given unit of work or time. The earnings series do not measure the level of total labor costs on the part of the employer since the following are excluded: Irregular bonuses, retroactive items, payments of various welfare benefits, payroll taxes paid by employers, and earnings for those employees not covered under the production worker, construction worker, or nonsupervisory employee definitions.

Gross average weekly earnings estimates are derived by multiplying average weekly hours estimates by average hourly earnings estimates. Therefore, weekly earnings are affected not only by changes in gross average hourly earnings but also by changes in the length of the workweek. Monthly variations in such factors as proportion of part-time workers, stoppages for varying reasons, labor turnover during the survey period, and absenteeism for which employees are not paid may cause the average workweek to fluctuate.

Long-term trends of gross average weekly earnings can be affected by structural changes in the makeup of the work force. For example, persistent long-term increases in the proportion of part-time workers in retail trade and many of the services industries have reduced average workweeks in these industries and have affected the average weekly earnings series.

Average weekly hours. The workweek information relates to the average hours for which pay was received and is different from standard or scheduled hours. Such factors as unpaid absenteeism, labor turnover, part-time work, and stoppages cause average weekly hours to be lower than scheduled hours of work for an establishment. Group averages further reflect changes in the workweek of component industries.

Average overtime hours. The overtime hours represent that portion of the gross average weekly hours which exceeded regular hours and for which overtime premiums were paid. If an employee were to work on a paid holiday at regular rates, receiving as total compensation his or her holiday pay plus straight-time pay for hours worked that day, no overtime hours would be reported.

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

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

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

$$RMSE = \sqrt{(\text{Standard Deviation})^2 + (\text{Bias})^2}$$

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	63,000	57,000
Transportation and public utilities	13,000	14,000
Wholesale and retail trade	30,000	27,000
Finance, insurance, and real estate	8,000	7,000
Services	31,000	25,000
Government	50,000	38,000

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

The area statistics relate to metropolitan areas. Definitions for all areas are published each year in the issue of *Employment and Earnings* that contains State and area annual averages (usually the May issue). Changes in definitions are noted as they occur. Additional industry detail may be obtained from the State agencies listed on the inside back cover of each issue. These statistics are based on the same establishment reports used by BLS for preparing national estimates. For employment, the sum of the State figures may differ slightly from the equivalent official U.S. totals on a national basis, because some States have more recent benchmarks than others and because of the effects of differing industrial and geographic stratification.

For the States and the areas shown in the B and C sections of this periodical, all the annual average data for the detailed industry statistics currently published by each cooperating State agency are presented in a summary volume published annually by the BLS.

PRODUCTIVITY DATA

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

Definitions

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

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

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

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

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

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

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

Notes on the data

For the private business sector and the nonfarm business sector, these indexes relate to the gross domestic product less household and institutions, owner-occupied housing, and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the gross domestic product of nonfinancial corporate business.

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

State and Area Unemployment Data (D table)

FEDERAL-STATE COOPERATIVE PROGRAM

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

ESTIMATING METHODS

Labor force and unemployment in 10 large States: New York, California, Illinois, Ohio, New Jersey, Pennsylvania, Michigan, Texas, Massachusetts, and Florida; and two areas: Los Angeles-Long Beach metropolitan areas and New York City, are sufficiently reliable to be used directly from the CPS. For a description of the CPS concepts see "Household Data," above.

Monthly employment and unemployment estimates in the remaining 40 States and 214 labor market areas are prepared in several stages.

1. *Preliminary estimate—employment*: The total employment estimate is based primarily on data from the survey of establishments which produces an estimate of payroll employment. This place-of-work estimate must be adjusted to refer to place of residences as used in the CPS. Factors for adjusting from place of work to place of residence have been developed for the major categories of employ-

ment by class of worker and industry on the basis of employment relationships which existed at the time of the 1970 Decennial Census. These factors are applied to the payroll employment estimates for the current period to obtain adjusted employment estimates.

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

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

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

For the third category, new entrants and reentrants into the labor force, a composite estimate is developed from equations that relate the total entrants into the labor force to the experienced unemployed and

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

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

U = total entrant unemployment

E = total employment

X = total experienced unemployment

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

3. *Correction factors for employment and unemployment* are then applied at the State level of the UI-based estimates obtained above for each of the 40 States and the District of Columbia. These correction factors are based on the ratio of the CPS to the UI-based estimates for the 6 month period ending in the current month (e.g. a 6-month moving average).

4. *Substate adjustment for additivity.* Independent estimates of employment and unemployment are prepared both for the State (obtained directly from the CPS in the 10 large States or by the UI-based

method in the remaining States), and labor market areas (LMA's) within the State. The total of the geographic areas in the LMA's exhausts the geographic boundaries of the State. A proportional adjustment is applied to all substate LMA estimates to ensure that the substate estimates of employment and unemployment add to the independent State totals. In California and New York, which also have substate areas taken directly from the CPS, the additivity adjustment for the remaining areas is applied to the State total minus the direct CPS area.

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

The benchmarked estimates are produced in three stages. First, the monthly UI-based estimates are adjusted by the ratio of the CPS to the UI-based annual averages. Second, the difference between the ratio of annual averages for two consecutive years is wedged into the monthly estimates in order to minimize the disturbance to the original series. Finally, the third-stage estimates are forced into agreement with CPS annual averages. In the 10 States which use CPS estimates monthly, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal CPS annual averages.

Seasonal Adjustment

Over the course of a year, the size of the Nation's labor force, the levels of employment and unemployment, and other measures of labor market activity undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting these statistics from month to month. These adjustments make it easier to observe the cyclical and other nonseasonal movements in the series. In evaluating changes in a seasonally adjusted series, it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, since they are subject not only to sampling and other errors but are also affected by the uncertainties of the seasonal adjustment process itself. Seasonally adjusted series for selected labor force and establishment data are published regularly in *Employment and Earnings*.

The seasonal adjustment program used for these series are based on an *adaptation* of the standard ratio-to-moving average method. They provide for "moving" adjustment factors to take account of changing seasonal patterns. A detailed description of the method is given in the publication, *The X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

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

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

The second change is that seasonal factors are now being calculated for use during the first 6 months of the year rather than for the entire year. In July of each year, the BLS will calculate and publish (in *Employment and Earnings*) a new set of seasonal factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years will 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.

Beginning in July 1980, the BLS also uses the X-11 ARIMA methodology in seasonally adjusting the establishment data, which previously had been computed using the *BLS Seasonal Factor Method*. All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors used in calculating the current estimates are based on data through March of 1982. The ARIMA model options for projecting the data series for 1 year ahead have been used in seasonally adjusting the establishment series, introduced with June 1981 data.

Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or non-supervisory workers, seasonally adjusted, and dividing by the 1977 base. For total private, total goods-producing, total private service-producing, trade, manufacturing, and durable and nondurable goods

industries, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1977 base.

Seasonally adjusted data are not published for a number of series characterized by small seasonal components relative to their trend-cycle and/or irregular components. Beginning with data for July 1981, these failed or unsatisfactory seasonally adjusted series are used in the aggregation to broader level seasonally adjusted series. In prior months, the unadjusted series were used in the aggregation process.

The seasonally adjusted establishment data for Federal Government are based on a series which excludes the Christmas temporary help employed by the Postal Service in December. The employment of these workers constitutes the only significant seasonal change in Federal Government employment during the winter months. Furthermore, the volume of such employment may change substantially from year to year because of administrative decisions by the Postal Service. Hence, it was considered desirable to exclude this group from the data upon which the seasonally adjusted series is based.

The revised seasonally adjusted series for the establishment data reflect experience through March 1982. Seasonal factors to be used for current adjustment appear in the June 1982 issue of *Employment and Earnings*.

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