



EMPLOYMENT AND EARNINGS

August 1983

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

Employment and Earnings may be ordered through the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Subscription price per year \$39 domestic and \$48.75 foreign. Single copy \$6 domestic and \$7.50 foreign. Annual supplement \$7.50 domestic and \$9.40 foreign. Prices are subject to change by the U.S. Government Printing Office. 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 July 1, 1985. Second-class postage paid at Washington, D.C. and at additional mailing addresses.

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ISSN 0013-6840

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

Establishment data

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Industry detail (final)	Mar.
Women employees detail (final)	Mar.
National data revised to reflect new benchmarks and new seasonal factors	June ¹
Revised historical national data	Supplement ²
State and area annual averages	May
Area definitions	May

State and area unemployment data

Annual averages	May
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¹ Issue varies. Latest revised data introduced June 1983.

² Month of publication varies. The latest supplement was published in July 1983.

Employment and Earnings

Vol. 30 No. 8 August 1983

Editors: Gloria Peterson Green, Rosalie K. Epstein

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Employment and Unemployment Developments, July 1983

Unemployment declined sharply in July and employment surged upward. The overall unemployment rate, 9.3 percent, and the rate for civilian workers, 9.5 percent, each fell by half a percentage point over the month and were nearly one-and-a-half points below last December's highs.

Total employment—as measured by the monthly survey of households—rose by 500,000 in July, following an even larger increase in June. The number of employees on nonagricultural payrolls—as measured by the monthly survey of establishments—also rose by about half a million over the month. Increases in payroll employment have totaled 1.7 million since last December.

Unemployment

Both the number of unemployed persons, 10.6 million, and the civilian worker unemployment rate, 9.5 percent, dropped substantially in July. Since last December's high, the jobless total has declined by 1.4 million, and the unemployment rate has dropped by 1.3 percentage points. The number of job losers (persons on layoff and those permanently separated from their jobs) fell by 320,000 in July and has declined by 1.1 million since December. (See tables A-32 and A-40.)

The July decrease in unemployment occurred largely among adult women, whose jobless rate declined 0.7 percentage point to 7.9 percent. The rate for adult men, which had decreased markedly in June, edged down further in July to 8.8 percent. There was little change, however, in the unemployment rate for teenagers, whose rate has hovered around 23 percent for more than a year. Whites, blacks, and Hispanics all shared in the overall decline in unemployment. The rate for black workers dropped from 20.6 to 19.5 percent. (See tables A-32 and A-33.)

At 10.5 percent, the jobless rate for workers in manufacturing fell by a full percentage point over the month and has declined by 4.3 points since last December. During the past 7 months, jobless rates have decreased for all major industry groups, though most of the improvement has occurred among workers in the goods-producing industries. (See table A-38.)

The number of persons unemployed for more than 6 months decreased by 365,000 in July; this was the first real decline in this very long-term jobless category in 2

years. The median duration of unemployment declined nearly 2 weeks to 9.9 weeks in July, while the mean duration was about unchanged at 21.7 weeks. (See table A-39.)

Civilian employment and the labor force

Civilian employment continued to increase substantially, rising by 500,000 in July to 101.3 million (seasonally adjusted). Adult women accounted for 375,000 of the over-the-month increase and adult men nearly 300,000, as teenage employment fell off somewhat following a very large gain in June. Total civilian employment has risen by 2.1 million since last December.

At 111.9 million, the civilian labor force was unchanged from June, seasonally adjusted, after a huge advance—1.2 million—in the prior month. Since last July, the labor force has grown by 1.5 million. (See table A-32.)

Industry payroll employment

Nongovernmental payroll employment rose by nearly half a million in July, the largest monthly gain in 1983 and the fourth consecutive strong increase. At 90.3 million, the July job total was the highest since February 1982. Since December, payroll jobs have increased by 1.7 million. (See table B-4.)

July employment gains were widespread, with increases occurring in 70 percent of the 186 industries which make up the BLS index of diffusion. (See table B-7.) Manufacturing posted sharp job growth for the fourth straight month, with durable goods industries accounting for the bulk of the over-the-month increase of 160,000. Transportation equipment, machinery, and electric and electronic equipment were the biggest gainers in durable goods, with lumber and wood products, furniture and fixtures, and primary and fabricated metals also showing strength. Among the nondurable goods industries, the most notable increases occurred in apparel and rubber and plastic products.

Elsewhere in the goods-producing sector, employment rose in mining for the second month in a row, primarily due to job gains in oil and gas extraction. Strong performance continued in construction, where the July increase was 40,000 and job growth since March has totaled 230,000.

The service-producing sector registered an over-the-month increase of 270,000 jobs, with gains occurring almost entirely in services (140,000) and State and local government (120,000). Service industry employment has grown by more than 500,000 in the last 5 months.

Hours of work

At 35.1 hours in July, the average workweek of production or nonsupervisory workers on private nonfarm payrolls was unchanged from May and June levels. Manufacturing hours edged up 0.1 hour to 40.3, an hour and a half above its September 1982 cyclical low. Factory overtime rose 0.2 hour and at 3.1 hours was at its highest level since December 1980. (See table C-6.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls—a comprehensive measure which reflects changes in employment as well as hours—rose by 0.6 percent in July to 106.3 (1977 = 100). The manufacturing index was 90.4, up 1.7 percent in July and almost 9 percent since December's low. (See table C-7.)

Hourly and weekly earnings

Average hourly and weekly earnings both rose by one quarter of one percent in July, seasonally adjusted. Before adjustment for seasonality, average hourly earnings, at \$7.99, were up 2 cents over the month and 31 cents over the year. Weekly earnings, at \$282.85, increased \$1.51 from June and \$12.51 from July 1982. (See tables C-1 and C-8.)

The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 155.2 (1977 = 100) in July, seasonally adjusted, 0.2 percent higher than in June. For the 12 months ended in July, the increase (before seasonal adjustment) was 4.3 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 2.1 percent during the 12-month period ended in June. (See table C-8.)

**HOUSEHOLD DATA
HISTORICAL**

A-1. Employment status of the noninstitutional population 16 years and over, 1950 to date

(Numbers in thousands)

Year and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural Industries				
Annual averages												
1950	106,164	63,377	59.7	60,067	1,169	58,918	7,160	51,758	3,288	5.2	42,787	
1951	106,764	64,160	60.1	62,104	2,143	59,961	6,726	53,235	2,055	3.2	42,604	
1952	107,617	64,524	60.0	62,636	2,366	60,250	6,500	53,749	1,883	2.9	43,093	
1953 ¹	109,287	65,246	59.7	63,410	2,231	61,179	6,260	54,919	1,634	2.8	44,041	
1954	110,463	65,785	59.6	62,251	2,142	60,109	6,205	53,904	3,532	5.4	44,676	
1955	111,747	67,067	60.0	64,234	2,064	62,170	6,450	55,722	2,852	4.3	44,660	
1956	112,919	68,517	60.7	65,764	1,965	63,799	6,263	57,514	2,750	4.0	44,402	
1957	114,213	68,877	60.3	66,019	1,948	64,071	5,947	58,123	2,859	4.2	45,336	
1958	115,574	69,486	60.1	64,883	1,647	63,036	5,586	57,450	4,602	6.6	46,088	
1959	117,117	70,157	59.9	66,416	1,788	64,630	5,565	59,065	3,740	5.3	46,960	
1960 ¹	119,106	71,469	60.0	67,639	1,881	65,778	5,458	60,318	3,852	5.4	47,617	
1961	120,671	72,359	60.0	67,646	1,900	65,746	5,200	60,546	4,714	6.5	48,312	
1962 ¹	122,214	72,675	59.5	68,763	2,061	66,702	4,944	61,759	3,911	5.4	49,539	
1963	124,422	73,839	59.3	69,768	2,006	67,762	4,887	63,076	4,070	5.5	50,583	
1964	126,503	75,109	59.4	71,323	2,018	69,305	4,523	64,782	3,786	5.0	51,394	
1965	128,459	76,401	59.5	73,034	1,948	71,088	4,361	66,726	3,368	4.4	52,058	
1966	130,160	77,692	59.6	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,266	
1967	132,092	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527	
1968	134,281	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291	
1969	136,573	82,972	60.8	80,140	2,238	77,902	3,606	74,296	2,832	3.4	53,602	
1970	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315	
1971	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834	
1972 ¹	145,939	88,647	60.9	83,966	1,813	82,153	3,464	78,669	4,882	5.5	57,091	
1973 ¹	148,670	91,203	61.3	86,836	1,774	85,064	3,470	81,594	4,365	4.8	57,667	
1974	151,841	93,670	61.7	88,515	1,721	86,794	3,515	83,279	5,156	5.5	58,171	
1975	154,831	95,453	61.6	87,524	1,678	85,846	3,408	82,438	7,929	6.3	59,377	
1976	157,816	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991	
1977	160,669	100,865	62.8	93,673	1,856	92,017	3,263	88,734	6,991	6.9	60,025	
1978 ¹	163,541	103,862	63.5	97,679	1,831	96,048	3,387	92,661	6,202	6.0	59,859	
1979	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900	
1980	169,349	108,544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,606	
1981	171,775	110,315	64.2	102,042	1,645	100,397	3,368	97,030	6,273	7.5	61,460	
1982	173,939	111,872	64.3	101,194	1,668	99,526	3,401	96,125	10,676	9.5	62,067	
Monthly data, seasonally adjusted²												
1982:												
July	174,038	112,090	64.4	101,262	1,674	99,588	3,445	96,143	10,828	9.7	61,948	
August	174,200	112,303	64.5	101,372	1,669	99,683	3,429	96,254	10,931	9.7	61,897	
September	174,360	112,528	64.5	101,213	1,670	99,543	3,363	96,180	11,315	10.1	61,832	
October	174,549	112,420	64.4	100,844	1,668	99,176	3,413	95,763	11,576	10.3	62,129	
November	174,716	112,702	64.5	100,796	1,660	99,136	3,466	95,670	11,906	10.6	62,016	
December	174,864	112,794	64.5	100,758	1,665	99,093	3,411	95,662	12,036	10.7	62,070	
1983:												
January	175,021	112,215	64.1	100,770	1,667	99,103	3,412	95,891	11,446	10.2	62,806	
February	175,169	112,217	64.1	100,727	1,664	99,063	3,393	95,670	11,490	10.2	62,952	
March	175,320	112,146	64.0	100,787	1,664	99,103	3,375	95,729	11,381	10.1	63,172	
April	175,465	112,457	64.1	101,129	1,871	99,458	3,371	96,088	11,328	10.1	63,008	
May	175,622	112,416	64.0	101,226	1,669	99,557	3,367	96,190	11,192	10.0	63,204	
June	175,793	113,600	64.6	102,454	1,668	100,786	3,522	97,264	11,146	9.8	62,193	
July	175,970	113,539	64.5	102,949	1,664	101,285	3,527	97,758	10,590	9.3	62,431	

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

² The population and Armed Forces figures are not adjusted for seasonal variation.

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

(Numbers in thousands)

Sex, year, and month	Noninstitutional population	Labor force									Not in labor force
		Number	Percent of population	Employed					Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force	
						Total	Agriculture	Nonegricultural industries			
Annual averages											
MEN											
1972 ¹	69,607	55,327	79.5	52,668	1,772	50,896	2,849	48,047	2,658	4.8	14,280
1973 ¹	71,017	56,349	79.3	54,074	1,725	52,349	2,647	49,502	2,275	4.0	14,667
1974	72,466	57,397	79.2	54,682	1,858	53,024	2,919	50,105	2,714	4.7	15,069
1975	73,891	57,899	78.4	53,457	1,600	51,857	2,824	49,032	4,442	7.7	15,993
1976	75,341	58,756	78.0	54,720	1,582	53,138	2,744	50,394	4,036	6.9	16,585
1977	76,756	59,959	78.1	56,291	1,583	54,728	2,671	52,057	3,667	6.1	16,797
1978 ¹	78,107	61,151	78.3	58,010	1,531	56,479	2,718	53,761	3,142	5.1	16,956
1979	79,509	62,215	78.2	59,096	1,489	57,607	2,686	54,921	3,120	5.0	17,293
1980	80,877	62,932	77.6	58,665	1,479	57,186	2,709	54,477	4,267	6.8	17,945
1981	82,023	63,466	77.4	58,909	1,512	57,397	2,700	54,687	4,577	7.2	18,537
1982	83,052	63,979	77.0	57,600	1,529	56,271	2,736	53,534	6,179	9.7	18,073
Monthly data, seasonally adjusted²											
1982:											
July	83,097	63,898	76.9	57,664	1,537	56,127	2,781	53,346	6,234	9.8	19,199
August	83,173	64,055	77.0	57,710	1,551	56,159	2,771	53,388	6,345	9.9	19,118
September	83,231	64,301	77.3	57,598	1,526	56,072	2,707	53,365	6,703	10.4	18,930
October	83,323	64,300	77.2	57,456	1,524	55,932	2,764	53,168	6,844	10.8	19,023
November	83,402	64,414	77.2	57,406	1,516	55,892	2,793	53,099	7,006	10.9	18,988
December	83,581	64,384	77.0	57,336	1,529	55,809	2,710	53,099	7,046	10.9	19,197
1983:											
January	83,652	63,916	76.4	57,283	1,531	55,752	2,726	53,024	6,833	10.4	19,736
February	83,720	63,996	76.4	57,234	1,528	55,706	2,652	53,054	6,762	10.8	19,724
March	83,799	63,957	76.3	57,300	1,528	55,772	2,671	53,101	6,657	10.4	19,832
April	83,856	64,207	76.6	57,476	1,530	55,946	2,683	53,263	6,731	10.5	19,649
May	83,931	64,278	76.6	57,666	1,528	56,128	2,718	53,411	6,620	10.3	19,655
June	84,014	64,816	77.1	58,464	1,525	56,939	2,824	54,115	6,351	9.8	19,198
July	84,099	64,884	77.1	58,625	1,521	57,104	2,844	54,260	6,236	9.6	19,235
Annual averages											
WOMEN											
1972 ¹	76,331	33,520	43.9	31,298	41	31,257	835	30,622	2,222	6.6	42,811
1973 ¹	77,853	34,853	44.8	32,764	49	32,715	622	32,093	2,069	6.0	43,000
1974	79,375	36,274	45.7	33,832	63	33,769	596	33,173	2,441	6.7	43,101
1975	80,938	37,553	46.4	34,067	78	33,989	584	33,404	3,466	9.3	43,388
1976	82,476	39,069	47.4	35,701	86	35,615	588	35,027	3,369	6.6	43,406
1977	83,932	40,705	48.5	37,381	92	37,289	612	36,677	3,324	6.2	43,227
1978 ¹	85,434	42,731	50.0	39,689	100	39,589	689	38,900	3,061	7.2	42,703
1979	86,951	44,343	51.0	41,325	106	41,217	681	40,556	3,016	6.6	42,608
1980	88,472	45,811	51.6	42,241	124	42,117	656	41,481	3,370	7.4	42,961
1981	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,688	7.9	42,922
1982	90,867	47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993
Monthly data, seasonally adjusted²											
1982:											
July	90,941	48,192	53.0	43,598	137	43,461	664	42,797	4,594	9.5	42,749
August	91,027	48,248	53.0	43,662	138	43,524	656	42,866	4,566	9.5	42,779
September	91,129	48,227	52.9	43,615	144	43,471	656	42,815	4,612	9.8	42,902
October	91,226	48,120	52.7	43,388	144	43,244	649	42,595	4,732	9.8	43,106
November	91,316	48,288	52.9	43,368	144	43,244	673	42,571	4,900	10.1	43,026
December	91,283	48,410	53.0	43,420	136	43,284	701	42,583	4,990	10.3	42,873
1983:											
January	91,369	48,299	52.9	43,466	136	43,350	684	42,666	4,813	10.0	43,070
February	91,449	48,220	52.7	43,493	136	43,357	740	42,617	4,727	9.8	43,229
March	91,532	48,191	52.6	43,467	136	43,331	704	42,627	4,724	9.8	43,341
April	91,609	48,251	52.7	43,653	141	43,512	686	42,824	4,597	9.5	43,358
May	91,691	48,142	52.5	43,569	141	43,428	649	42,779	4,572	9.5	43,549
June	91,779	48,784	53.2	43,960	143	43,847	696	43,149	4,795	9.8	42,995
July	91,871	48,675	53.0	44,324	143	44,181	683	43,498	4,351	8.9	43,198

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

² The population and Armed Forces figures are not adjusted for seasonal variation.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	July 1983										
	Civilian noninstitutional population	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	174,306	113,980	65.4	103,273	10,707	9.4	60,326	32,580	2,211	2,455	23,080
16 to 19 years	15,257	10,338	67.8	8,159	2,179	21.1	4,919	731	781	15	3,382
16 to 17 years	7,355	4,240	57.6	3,270	970	22.9	3,116	321	445	24	2,336
18 to 19 years	7,902	6,096	77.2	4,889	1,209	19.6	1,603	410	338	11	1,047
20 to 24 years	20,809	18,919	81.3	14,872	2,247	13.3	3,690	2,069	741	62	998
25 to 54 years	90,319	71,832	79.5	66,298	5,535	7.7	18,488	13,752	670	736	3,330
25 to 34 years	39,176	31,656	80.8	28,711	2,945	9.3	7,520	5,817	478	184	1,243
25 to 29 years	20,526	16,580	80.8	14,915	1,665	10.0	3,947	2,840	343	82	682
30 to 34 years	18,850	15,078	80.0	13,795	1,281	8.5	3,573	2,778	132	103	561
35 to 44 years	28,988	23,411	80.8	21,798	1,613	6.9	5,576	4,257	149	240	931
35 to 39 years	15,978	12,871	80.6	11,916	956	7.4	3,108	2,404	95	112	495
40 to 44 years	13,011	10,539	81.0	9,883	657	6.2	2,471	1,853	54	128	437
45 to 54 years	22,155	16,766	75.7	15,790	978	5.8	5,369	3,877	45	313	1,155
45 to 49 years	11,085	8,680	78.3	8,170	509	5.9	2,405	1,796	28	125	455
50 to 54 years	11,070	8,086	73.0	7,819	467	5.8	2,985	2,080	17	187	701
55 to 64 years	22,017	11,889	53.9	11,235	634	5.3	10,148	5,693	6	671	3,778
55 to 59 years	11,382	7,229	63.5	6,833	395	5.5	4,154	2,625	5	303	1,220
60 to 64 years	10,835	4,640	43.6	4,401	239	5.2	5,994	3,068	3	368	2,556
65 years and over	25,904	3,022	11.7	2,910	112	3.7	22,882	10,317	12	961	11,593
65 to 69 years	8,680	1,718	19.3	1,647	69	4.0	7,163	3,292	1	245	3,628
70 years and over	17,025	1,306	7.7	1,263	43	3.3	15,719	7,025	11	716	7,967
Men											
16 years and over	82,576	65,047	78.6	58,950	6,097	9.4	17,531	392	1,036	1,464	14,639
16 to 19 years	7,651	5,555	72.6	4,380	1,175	21.2	2,096	31	355	12	1,698
16 to 17 years	3,735	2,355	63.0	1,800	555	23.8	1,380	23	201	5	1,152
18 to 19 years	3,915	3,200	81.7	2,580	620	19.4	715	8	154	7	546
20 to 24 years	10,147	9,209	90.6	7,888	1,320	14.3	938	20	376	32	509
25 to 54 years	43,938	41,310	94.0	38,180	3,150	7.6	2,627	126	300	520	1,679
25 to 34 years	19,159	18,091	94.4	16,396	1,695	9.4	1,068	44	246	126	652
25 to 29 years	10,052	9,411	93.8	8,445	966	10.3	641	19	183	47	392
30 to 34 years	9,107	8,680	95.3	7,950	730	8.4	426	25	63	79	260
35 to 44 years	14,095	13,435	95.3	12,529	906	8.7	660	45	43	183	389
35 to 39 years	7,772	7,429	95.6	6,888	561	7.6	343	26	26	87	204
40 to 44 years	6,323	6,006	95.0	5,682	345	5.7	317	19	17	96	185
45 to 54 years	10,684	9,784	91.6	9,235	549	5.8	900	39	10	212	838
45 to 49 years	5,370	5,028	93.6	4,744	284	5.6	342	17	6	85	234
50 to 54 years	5,314	4,756	89.5	4,491	265	5.6	556	21	5	127	405
55 to 64 years	10,267	7,091	69.1	6,704	387	5.5	3,178	61	5	475	2,635
55 to 59 years	5,358	4,330	80.6	4,102	228	5.3	1,028	22	3	210	793
60 to 64 years	4,909	2,781	56.2	2,602	159	5.8	2,148	39	2	265	1,842
65 years and over	10,576	1,882	17.8	1,818	84	3.4	8,694	152	-	421	6,117
65 to 69 years	3,955	1,034	26.1	998	36	3.5	2,921	26	-	135	2,765
70 years and over	6,621	848	12.8	620	28	3.3	5,773	126	-	294	5,352
Women											
16 years and over	91,726	48,933	53.3	44,323	4,610	9.4	42,795	32,188	1,175	991	8,441
16 to 19 years	7,606	4,783	62.9	3,779	1,004	21.0	2,623	700	426	13	1,665
16 to 17 years	3,620	1,884	52.1	1,470	414	22.0	1,735	298	244	9	1,184
18 to 19 years	3,967	2,899	72.7	2,309	590	20.3	1,088	401	162	4	501
20 to 24 years	10,662	7,710	72.3	6,783	927	12.0	2,952	2,068	365	30	469
25 to 54 years	46,381	30,522	65.8	28,138	2,384	7.8	15,659	13,624	370	216	1,651
25 to 34 years	20,017	13,565	67.8	12,315	1,250	9.2	6,452	5,573	229	58	591
25 to 29 years	10,474	7,169	68.4	6,470	699	9.7	3,308	2,821	180	35	290
30 to 34 years	9,543	6,398	67.0	5,845	551	8.6	3,147	2,753	69	24	301
35 to 44 years	14,893	9,975	67.0	9,288	707	7.1	4,916	4,212	108	57	542
35 to 39 years	8,206	5,442	66.3	5,048	395	7.3	2,783	2,379	69	25	291
40 to 44 years	6,888	4,533	67.8	4,221	312	6.9	2,154	1,834	37	32	252
45 to 54 years	11,471	8,981	60.9	8,554	427	6.1	4,490	3,838	34	101	517
45 to 49 years	5,715	3,652	63.9	3,426	225	6.2	2,083	1,779	22	40	221
50 to 54 years	5,756	3,330	57.8	3,128	202	6.1	2,427	2,059	12	80	296
55 to 64 years	11,750	4,778	40.7	4,531	247	5.2	6,972	5,632	3	196	1,141
55 to 59 years	6,024	2,899	48.1	2,731	168	5.8	3,128	2,603	1	94	427
60 to 64 years	5,725	1,879	32.8	1,800	80	4.2	3,846	3,026	1	103	714
65 years and over	15,329	1,140	7.4	1,092	48	4.2	14,189	10,165	12	536	3,478
65 to 69 years	4,925	682	13.9	649	33	4.9	4,242	3,266	1	114	881
70 years and over	10,404	458	4.4	443	15	3.2	9,946	6,899	11	422	2,615

HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

Age, sex, and race	July 1983										
	Civilian noninstitutional population	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					
WHITE											
18 years and over	150,959	98,911	65.5	91,012	7,899	8.0	52,048	28,708	1,555	1,930	19,857
18 to 19 years	12,583	8,898	70.7	7,332	1,566	17.8	3,685	554	521	18	2,591
18 to 17 years	6,052	3,668	60.8	2,935	733	20.0	2,384	241	303	11	1,829
18 to 19 years	8,531	5,231	80.1	4,397	833	15.9	1,301	313	218	8	762
20 to 24 years	17,549	14,584	83.1	12,893	1,591	10.9	2,965	1,642	526	48	749
25 to 54 years	77,776	62,094	79.8	57,949	4,144	8.7	15,661	11,973	487	563	2,857
25 to 34 years	33,353	27,091	81.2	24,983	2,127	7.9	6,262	4,840	331	144	947
25 to 29 years	17,443	14,221	81.5	13,037	1,184	8.3	3,223	2,420	243	65	495
30 to 34 years	15,910	12,870	80.9	11,926	844	7.3	3,040	2,421	87	79	453
35 to 44 years	25,068	20,294	80.9	19,050	1,244	6.1	4,795	3,741	123	172	758
35 to 39 years	13,819	11,151	80.7	10,429	722	8.9	2,668	2,130	75	77	399
40 to 44 years	11,270	9,143	81.1	8,621	521	5.7	2,127	1,837	48	85	359
45 to 54 years	19,334	14,710	76.1	13,936	774	5.3	4,624	3,392	33	248	952
45 to 49 years	9,609	7,541	78.5	7,156	385	5.1	2,069	1,591	22	96	387
50 to 54 years	9,724	7,170	73.7	6,780	389	5.4	2,555	1,832	10	152	584
55 to 64 years	19,639	10,597	54.0	10,078	521	4.9	9,041	5,114	10	534	3,383
55 to 59 years	10,116	6,452	63.8	6,138	314	4.9	3,665	2,358	5	243	1,059
60 to 64 years	9,522	4,146	43.5	3,938	208	5.0	5,377	2,756	5	291	2,324
65 years and over	23,413	2,737	11.7	2,662	75	2.8	20,676	9,422	10	767	10,477
65 to 69 years	8,020	1,558	19.4	1,512	46	3.0	6,463	2,997	1	201	3,263
70 years and over	15,393	1,179	7.7	1,149	30	2.5	14,214	6,424	9	566	7,213
Men											
18 years and over	72,004	57,096	79.3	52,557	4,540	8.0	14,907	308	726	1,188	12,704
18 to 19 years	6,304	4,729	75.0	3,903	827	17.5	1,574	23	243	9	1,299
18 to 17 years	3,079	2,004	65.1	1,603	401	20.0	1,075	17	141	3	914
18 to 19 years	3,225	2,725	84.5	2,300	426	15.8	500	7	103	8	385
20 to 24 years	8,639	7,953	92.1	6,994	958	12.0	686	15	274	26	372
25 to 54 years	38,295	36,306	94.8	33,900	2,406	6.6	1,988	96	204	409	1,279
25 to 34 years	16,555	15,789	95.3	14,509	1,260	8.0	766	31	169	103	483
25 to 29 years	8,670	6,218	94.8	7,515	701	8.5	455	14	125	39	277
30 to 34 years	7,884	7,553	95.8	6,894	560	7.4	331	17	43	64	207
35 to 44 years	12,333	11,848	96.1	11,141	707	6.0	486	37	30	131	288
35 to 39 years	6,817	6,563	96.3	6,134	429	6.5	254	19	18	62	155
40 to 44 years	5,517	5,285	95.8	5,007	277	5.3	232	18	12	69	133
45 to 54 years	9,407	8,690	92.4	8,250	440	5.1	717	29	5	175	508
45 to 49 years	4,687	4,416	94.2	4,199	217	4.9	271	15	4	67	165
50 to 54 years	4,719	4,274	90.6	4,051	223	5.2	445	13	-	108	323
55 to 64 years	9,208	8,383	89.3	8,075	309	4.8	2,825	49	5	386	2,384
55 to 59 years	4,601	3,906	81.3	3,729	177	4.5	898	21	3	176	684
60 to 64 years	4,407	2,478	56.2	2,346	132	5.3	1,929	28	2	209	1,691
65 years and over	9,558	1,725	18.0	1,686	39	2.3	7,834	126	-	338	7,370
65 to 69 years	3,587	959	26.7	938	21	2.1	2,629	23	-	108	2,497
70 years and over	5,971	768	12.6	747	19	2.4	5,205	102	-	230	4,872
Women											
18 years and over	78,956	41,615	53.0	38,455	3,359	6.0	37,141	28,397	829	782	7,153
18 to 19 years	8,280	4,169	66.4	3,430	739	17.7	2,111	531	278	9	1,292
18 to 17 years	2,973	1,664	56.0	1,332	331	19.9	1,309	225	163	7	915
18 to 19 years	3,306	2,505	75.8	2,097	408	16.3	601	306	115	2	377
20 to 24 years	8,910	6,631	74.4	5,999	633	9.5	2,279	1,626	253	22	377
25 to 54 years	39,481	25,766	65.3	24,049	1,736	6.7	13,693	11,877	283	154	1,378
25 to 34 years	18,798	11,322	67.4	10,455	867	7.7	5,477	4,810	182	41	464
25 to 29 years	8,773	6,005	66.5	5,522	483	8.0	2,768	2,406	118	26	218
30 to 34 years	8,026	5,317	66.2	4,932	384	7.2	2,709	2,404	44	15	246
35 to 44 years	12,755	8,448	66.2	7,909	537	6.4	4,309	3,704	93	41	470
35 to 39 years	7,002	4,568	65.5	4,295	283	6.4	2,414	2,097	57	15	244
40 to 44 years	5,753	3,858	87.1	3,614	244	6.3	1,895	1,607	36	26	228
45 to 54 years	9,926	8,020	80.6	5,866	334	5.5	3,907	3,363	26	72	444
45 to 49 years	4,922	3,125	63.5	2,957	168	5.4	1,798	1,566	18	29	182
50 to 54 years	5,005	2,696	57.9	2,729	186	5.7	2,110	1,795	10	44	261
55 to 64 years	10,430	4,214	40.4	4,001	213	5.0	6,216	5,065	5	148	999
55 to 59 years	5,315	2,546	47.9	2,410	137	5.4	2,769	2,337	2	65	365
60 to 64 years	5,115	1,666	32.8	1,592	76	4.5	3,448	2,728	3	83	634
65 years and over	13,655	1,012	7.3	976	38	3.8	12,843	9,296	10	429	3,108
65 to 69 years	4,433	599	13.5	574	25	4.1	3,834	2,974	1	93	786
70 years and over	9,422	413	4.4	402	11	2.7	9,009	6,322	9	336	2,341

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	July 1983										
	Civilian noninstitutional population	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					
BLACK											
16 years and over	18,942	12,186	64.3	9,717	2,489	20.3	6,758	3,155	442	473	2,688
16 to 19 years	2,225	1,194	53.7	653	542	45.3	1,031	159	200	7	665
18 to 17 years	1,089	478	43.7	288	208	43.7	613	75	117	3	417
18 to 19 years	1,136	718	63.2	384	333	48.4	418	63	63	3	246
20 to 24 years	2,740	1,877	72.2	1,388	590	29.8	763	391	143	12	217
25 to 54 years	9,877	7,737	76.3	6,517	1,220	15.8	2,140	1,349	97	154	539
25 to 34 years	4,814	3,681	79.8	2,953	729	19.8	932	575	79	35	243
25 to 29 years	2,474	1,927	77.9	1,485	442	22.9	547	314	53	18	164
30 to 34 years	2,139	1,753	82.0	1,467	286	16.3	386	280	27	19	79
35 to 44 years	3,003	2,415	80.4	2,107	307	12.7	589	388	12	57	131
35 to 39 years	1,643	1,327	80.8	1,137	192	14.5	316	207	10	29	70
40 to 44 years	1,360	1,087	79.9	970	116	10.7	272	181	2	29	62
45 to 54 years	2,280	1,641	72.8	1,457	184	11.2	619	386	8	82	185
45 to 49 years	1,166	898	77.0	765	112	12.5	289	165	4	28	72
50 to 54 years	1,093	743	68.0	671	72	9.7	350	220	2	34	92
55 to 64 years	1,965	1,048	53.3	961	87	8.3	917	473	-	126	320
55 to 59 years	1,044	843	81.8	577	68	10.3	401	211	-	55	135
60 to 64 years	921	405	44.0	384	21	5.3	518	282	-	70	185
65 years and over	2,135	230	10.8	199	31	13.5	1,905	783	2	174	947
65 to 69 years	731	121	16.6	103	19	15.7	610	251	-	40	316
70 years and over	1,404	108	7.7	97	12	11.1	1,296	531	1	133	629
Men											
16 years and over	8,457	6,313	74.8	4,976	1,337	21.2	2,144	73	192	259	1,623
16 to 19 years	1,088	852	59.9	361	291	44.6	438	8	80	4	345
18 to 17 years	541	278	51.4	149	130	46.8	283	6	50	2	204
18 to 19 years	547	374	68.4	213	161	43.1	173	1	29	1	140
20 to 24 years	1,258	1,068	84.9	752	316	29.6	191	5	63	4	119
25 to 54 years	4,407	3,698	88.5	3,244	654	16.8	509	29	48	96	334
25 to 34 years	2,072	1,853	89.4	1,465	368	20.9	219	14	41	18	148
25 to 29 years	1,113	963	86.5	722	241	25.0	150	5	33	7	105
30 to 34 years	958	889	92.8	742	147	18.5	69	8	8	11	41
35 to 44 years	1,335	1,197	89.8	1,029	168	14.0	138	5	5	44	63
35 to 39 years	732	681	93.0	553	109	18.4	71	4	2	23	42
40 to 44 years	903	536	66.6	476	59	11.0	67	1	2	22	42
45 to 54 years	1,000	848	84.6	750	98	11.5	152	10	2	36	105
45 to 49 years	518	461	88.9	404	57	12.4	57	1	1	18	37
50 to 54 years	482	367	80.4	346	41	10.6	95	6	1	18	67
55 to 64 years	856	571	68.8	514	57	10.0	286	10	-	79	197
55 to 59 years	455	346	76.0	306	40	11.5	109	1	-	28	60
60 to 64 years	402	225	55.9	208	17	7.6	177	9	-	51	117
65 years and over	847	124	14.7	105	20	18.0	722	21	1	74	628
65 to 69 years	307	53	17.3	43	10	(¹)	254	-	-	19	234
70 years and over	540	71	13.2	82	10	(¹)	469	20	-	54	394
Women											
16 years and over	10,485	5,873	56.0	4,741	1,132	19.3	4,812	3,083	250	215	1,065
16 to 19 years	1,137	542	47.7	291	251	48.3	595	151	120	3	320
18 to 17 years	548	198	38.2	120	79	39.6	350	69	67	1	213
18 to 19 years	589	344	58.4	172	172	50.1	245	82	54	2	108
20 to 24 years	1,482	909	61.4	636	274	30.1	572	386	80	6	96
25 to 54 years	5,470	3,639	70.2	3,273	566	14.7	1,831	1,320	49	56	205
25 to 34 years	2,542	1,829	71.9	1,468	341	18.8	714	561	38	17	97
25 to 29 years	1,361	964	70.9	763	201	20.9	397	309	20	9	59
30 to 34 years	1,181	864	73.2	725	139	16.1	317	252	19	6	38
35 to 44 years	1,668	1,218	73.0	1,078	140	11.5	450	383	7	13	48
35 to 39 years	911	668	73.1	584	83	12.4	245	203	6	6	28
40 to 44 years	757	551	72.9	494	57	10.4	205	180	-	7	20
45 to 54 years	1,260	792	62.9	707	86	10.8	487	378	4	26	60
45 to 49 years	848	437	67.3	381	55	12.6	212	184	3	10	35
50 to 54 years	811	358	58.2	325	31	8.6	255	212	1	16	25
55 to 64 years	1,109	478	43.1	447	31	6.4	631	463	-	47	123
55 to 59 years	589	297	50.5	271	26	6.8	292	210	-	28	54
60 to 64 years	519	180	34.7	176	4	2.4	339	253	-	19	68
65 years and over	1,288	105	8.2	94	11	10.5	1,183	762	1	100	319
65 to 69 years	424	68	16.1	80	9	(¹)	356	251	-	21	84
70 years and over	864	37	4.3	35	2	(¹)	827	511	1	79	235

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

A-4. Employment status of the black-and-other civilian noninstitutional population by age and sex

(Numbers in thousands)

Age and sex	July 1983								Not in labor force
	Civilian noninstitutional population	Civilian labor force							
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
TOTAL									
16 years and over	23,347	15,069	64.5	12,261	308	11,953	2,808	16.6	6,277
16 to 19 years	2,673	1,440	53.6	827	47	779	613	42.6	1,234
16 to 17 years	1,303	572	43.9	335	29	306	237	41.5	731
16 to 19 years	1,370	868	63.3	492	19	473	378	43.3	502
20 to 24 years	3,260	2,335	71.6	1,679	37	1,642	656	28.1	925
25 to 54 years	12,544	9,739	77.6	6,348	144	6,205	1,389	14.3	2,807
25 to 34 years	5,823	4,566	78.4	3,747	60	3,688	816	17.9	1,258
25 to 29 years	3,084	2,359	76.5	1,876	33	1,843	481	20.4	725
30 to 34 years	2,739	1,198	43.7	1,870	26	1,843	337	28.1	533
35 to 44 years	3,900	3,117	79.9	2,748	48	2,700	389	11.8	763
35 to 39 years	2,159	1,720	79.7	1,487	26	1,458	233	13.5	436
40 to 44 years	1,741	1,397	80.2	1,261	19	1,241	135	9.7	344
45 to 54 years	2,621	2,058	72.9	1,653	36	1,617	202	9.6	766
45 to 49 years	1,476	1,139	77.2	1,015	20	994	125	11.0	336
50 to 54 years	1,345	916	66.1	839	16	822	77	8.4	429
55 to 64 years	2,376	1,272	53.5	1,159	46	1,113	113	8.9	1,107
55 to 59 years	1,266	777	61.4	695	23	672	82	10.5	489
60 to 64 years	1,112	495	44.5	464	22	441	31	6.3	617
65 years and over	2,491	285	11.4	248	34	215	37	12.8	2,206
65 to 69 years	860	158	18.4	135	14	121	24	15.2	701
70 years and over	1,632	126	7.7	114	19	94	20	15.9	1,506
Men									
16 years and over	10,574	7,951	75.2	6,393	241	6,152	1,557	19.6	2,624
16 to 19 years	1,347	826	61.3	477	32	446	348	42.2	521
16 to 17 years	657	351	53.5	197	17	180	154	43.9	306
16 to 19 years	690	474	66.7	290	15	285	194	40.9	216
20 to 24 years	1,508	1,258	83.3	694	25	669	362	28.6	252
25 to 54 years	5,643	5,004	88.7	4,260	122	4,138	744	14.9	840
25 to 34 years	2,604	2,322	89.2	1,887	54	1,833	435	16.7	262
25 to 29 years	1,362	1,195	88.5	930	32	898	265	22.2	167
30 to 34 years	1,222	1,127	92.2	957	21	935	170	15.1	95
35 to 44 years	1,782	1,587	90.1	1,388	40	1,348	199	12.6	174
35 to 39 years	955	866	90.6	734	23	710	132	15.3	89
40 to 44 years	807	722	89.5	654	16	638	67	9.3	85
45 to 54 years	1,277	1,094	85.7	985	28	957	110	10.0	183
45 to 49 years	683	612	89.7	545	16	529	67	11.0	71
50 to 54 years	594	482	81.1	440	12	428	42	6.7	112
55 to 64 years	1,059	708	66.6	629	35	595	76	11.1	351
55 to 59 years	557	424	76.2	373	17	356	51	12.0	132
60 to 64 years	502	263	58.4	258	17	238	27	9.7	219
65 years and over	1,017	157	15.5	133	28	105	25	15.7	860
65 to 69 years	368	75	20.4	60	10	50	15	20.4	293
70 years and over	650	82	12.6	73	17	55	9	11.5	568
Women									
16 years and over	12,772	7,119	55.7	5,868	67	5,801	1,251	17.6	5,654
16 to 19 years	1,326	614	46.3	349	16	334	265	43.1	712
16 to 17 years	646	221	34.1	138	12	126	83	37.5	426
16 to 19 years	680	393	57.9	212	4	208	182	46.2	287
20 to 24 years	1,752	1,079	61.6	785	12	773	294	27.2	673
25 to 54 years	6,901	4,735	68.6	4,088	22	4,067	645	13.6	2,167
25 to 34 years	3,219	2,244	69.7	1,860	6	1,855	383	17.1	976
25 to 29 years	1,702	1,164	68.4	948	1	947	216	18.6	538
30 to 34 years	1,517	1,080	71.2	913	5	908	167	15.5	438
35 to 44 years	2,138	1,529	71.5	1,360	6	1,352	170	11.1	609
35 to 39 years	1,204	654	71.0	753	5	748	101	11.9	349
40 to 44 years	934	675	72.2	607	3	603	68	10.1	259
45 to 54 years	1,544	981	62.3	888	8	880	93	9.7	582
45 to 49 years	793	527	66.5	470	4	465	58	11.0	265
50 to 54 years	751	434	57.8	399	4	394	35	6.1	317
55 to 64 years	1,319	564	42.8	529	11	518	35	6.1	755
55 to 59 years	709	352	49.7	322	6	316	31	8.7	357
60 to 64 years	610	212	34.7	208	5	203	4	1.8	399
65 years and over	1,474	126	8.7	116	6	110	12	9.3	1,348
65 to 69 years	492	83	16.9	75	4	71	9	10.4	408
70 years and over	982	44	4.5	41	2	39	3	(¹)	938

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-5. Employment status of the civilian noninstitutional population by race, sex, and age

(Numbers in thousands)

Employment status and race	Total		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years	
	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983
TOTAL								
Civilian noninstitutional population	172,364	174,306	73,685	74,927	82,926	84,122	15,753	15,257
Civilian labor force	112,526	113,980	58,559	59,492	43,434	44,150	10,533	10,338
Percent of population	65.3	65.4	79.5	79.4	52.4	52.5	66.9	67.8
Employed	101,490	103,273	53,619	54,570	39,665	40,544	8,206	8,159
Agriculture	4,023	4,129	2,642	2,742	749	758	632	629
Nonagricultural industries	97,467	99,144	50,977	51,828	38,916	39,786	7,574	7,530
Unemployed	11,036	10,707	4,940	4,922	3,769	3,606	2,326	2,179
Unemployment rate	9.8	9.4	8.4	8.3	8.7	8.2	22.1	21.1
Not in labor force	59,838	60,326	15,126	15,435	39,492	39,972	5,220	4,919
White								
Civilian noninstitutional population	149,589	150,959	84,737	85,700	71,762	72,676	13,070	12,583
Civilian labor force	97,973	98,911	51,720	52,367	37,146	37,646	9,105	8,898
Percent of population	65.5	65.5	79.9	79.7	51.8	51.8	69.7	70.7
Employed	89,595	91,012	47,870	48,654	34,331	35,026	7,394	7,332
Agriculture	3,745	3,822	2,455	2,533	694	707	596	581
Nonagricultural industries	85,850	87,191	45,415	46,121	33,637	34,318	6,798	6,751
Unemployed	8,378	7,899	3,851	3,713	2,816	2,620	1,711	1,566
Unemployment rate	8.6	8.0	7.4	7.1	7.6	7.0	18.8	17.6
Not in labor force	51,596	52,048	13,016	13,333	34,615	35,031	3,965	3,685
Black								
Civilian noninstitutional population	18,600	18,942	7,193	7,369	9,156	9,348	2,251	2,225
Civilian labor force	11,762	12,186	5,421	5,661	5,168	5,331	1,173	1,194
Percent of population	63.2	64.3	75.4	76.8	56.4	57.0	52.1	53.7
Employed	9,447	9,717	4,461	4,614	4,332	4,450	633	653
Agriculture	190	225	126	158	31	28	30	39
Nonagricultural industries	9,257	9,492	4,335	4,457	4,301	4,422	603	614
Unemployed	2,315	2,469	939	1,046	836	881	540	542
Unemployment rate	19.7	20.3	17.3	18.5	16.2	16.5	46.0	45.3
Not in labor force	6,839	6,756	1,772	1,708	3,988	4,017	1,076	1,031

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-6. Employment status of the civilian noninstitutional population 16 to 21 years of age by major activity, sex, and race

(Numbers in thousands)

Employment status and major activity	July 1983								
	Total			White			Black		
	Both sexes	Men	Women	Both sexes	Men	Women	Both sexes	Men	Women
TOTAL									
Civilian noninstitutional population	23,311	11,574	11,737	19,325	9,813	9,713	3,323	1,598	1,725
Civilian labor force	16,898	9,070	7,828	14,528	7,743	6,786	1,985	1,080	905
Percent of population	72.5	78.4	66.7	75.2	80.5	69.9	59.7	67.6	52.5
Employed	13,801	7,366	6,435	12,310	6,528	5,782	1,206	669	536
Agriculture	860	674	186	786	624	183	64	47	17
Nonagricultural industries	12,941	8,891	6,250	11,524	5,904	5,820	1,142	623	519
Unemployed	3,087	1,704	1,392	2,218	1,215	1,004	779	410	369
Looking for full-time work	2,300	1,310	989	1,606	919	686	632	336	296
Looking for part-time work	797	394	403	613	295	317	147	75	72
Percent of labor force	18.3	18.8	17.8	15.3	15.7	14.8	39.3	38.0	40.7
Not in labor force	6,414	2,504	3,909	4,797	1,870	2,927	1,338	518	820
Major activity: Going to school									
Civilian noninstitutional population	1,577	759	819	1,106	539	567	345	155	190
Civilian labor force	412	212	200	338	172	166	50	33	17
Percent of population	26.1	28.0	24.4	30.6	31.9	29.3	14.6	21.3	9.1
Employed	270	141	130	241	125	115	21	15	5
Agriculture	3	8	-	4	9	-	-	-	-
Nonagricultural industries	267	133	134	236	116	120	21	16	5
Unemployed	141	71	70	98	47	51	30	17	12
Looking for full-time work	41	24	17	30	18	12	11	7	4
Looking for part-time work	100	47	54	68	29	39	18	10	8
Percent of labor force	34.3	33.6	35.1	28.9	27.2	30.7	(¹)	(¹)	(¹)
Not in labor force	1,165	546	619	768	367	401	295	122	173
Major activity: Other									
Civilian noninstitutional population	21,734	10,816	10,918	18,219	9,074	9,146	2,978	1,443	1,535
Civilian labor force	16,486	8,858	7,628	14,190	7,571	6,619	1,935	1,047	888
Percent of population	75.9	81.9	69.9	77.9	83.4	72.4	65.0	72.5	57.8
Employed	13,531	7,225	6,306	12,070	6,403	5,667	1,185	654	531
Agriculture	857	666	190	782	815	167	64	47	17
Nonagricultural industries	12,674	6,558	6,115	11,288	5,788	5,500	1,121	607	514
Unemployed	2,955	1,633	1,322	2,120	1,168	952	749	393	356
Looking for full-time work	2,259	1,286	973	1,576	902	674	621	328	292
Looking for part-time work	696	347	349	545	266	279	129	65	64
Percent of labor force	17.9	18.4	17.3	14.9	15.4	14.4	38.7	37.5	40.2
Not in labor force	5,248	1,958	3,290	4,029	1,503	2,526	1,043	396	647

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-7. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	July 1982	July 1983	Total		Employed		Unemployed			
			July 1982	July 1983	July 1982	July 1983	Number		Percent of labor force	
							July 1982	July 1983	July 1982	July 1983
VETERANS										
Total, 25 years and over	8,695	7,846	8,204	7,378	7,523	6,763	681	615	8.3	8.3
25 to 39 years	7,129	5,846	6,834	5,613	6,228	5,104	606	509	8.9	9.1
25 to 29 years	1,202	668	1,132	620	963	544	169	76	14.9	12.3
30 to 34 years	2,917	2,135	2,801	2,055	2,562	1,848	239	207	8.5	10.1
35 to 39 years	3,010	3,043	2,901	2,938	2,703	2,712	198	226	6.8	7.7
40 years and over	1,566	2,000	1,370	1,765	1,295	1,659	75	106	5.5	6.0
NONVETERANS										
Total, 25 to 39 years	18,284	20,053	17,345	18,943	15,741	17,350	1,604	1,593	9.2	8.4
25 to 29 years	8,184	8,713	7,748	8,176	6,885	7,408	863	768	11.1	9.4
30 to 34 years	5,967	6,808	5,715	6,469	5,239	5,967	476	502	8.3	7.8
35 to 39 years	4,093	4,532	3,882	4,298	3,617	3,975	265	323	6.8	7.5

NOTE: Male Vietnam-era veterans are those who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men 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.

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

(Numbers in thousands)

Sex, age, and race	July 1983								
	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									
Total, 16 years and over	99,887	83,522	7,086	9,279	9.3	14,093	12,665	1,428	10.1
16 to 19 years	7,249	3,803	1,960	1,486	20.5	3,089	2,396	893	22.4
16 to 17 years	2,459	1,056	901	503	20.4	1,780	1,314	467	26.2
18 to 19 years	4,790	2,747	1,059	983	20.5	1,309	1,083	226	17.3
20 years and over	92,639	79,719	5,126	7,794	8.4	11,004	10,269	735	6.7
20 to 24 years	15,042	11,525	1,486	2,032	13.5	1,877	1,662	215	11.5
25 years and over	77,596	68,195	3,641	5,761	7.4	9,127	8,607	520	5.7
25 to 54 years	65,629	57,451	3,019	5,160	7.9	6,203	5,828	375	6.0
55 years and over	11,967	10,744	622	602	5.0	2,924	2,779	145	5.0
Men, 16 years and over	60,760	51,673	3,570	5,516	9.1	4,287	3,706	580	13.5
16 to 19 years	4,075	2,207	1,037	830	20.4	1,480	1,135	345	23.3
20 years and over	56,685	49,466	2,533	4,686	8.3	2,807	2,571	236	8.4
20 to 24 years	8,500	6,505	773	1,223	14.4	708	611	98	13.8
25 years and over	48,185	42,962	1,760	3,464	7.2	2,098	1,960	138	6.6
25 to 54 years	40,460	35,936	1,446	3,077	7.6	850	777	73	8.6
55 years and over	7,726	7,026	314	387	5.0	1,247	1,183	65	5.2
Women, 16 years and over	39,127	31,849	3,516	3,763	9.6	9,806	8,959	847	8.6
16 to 19 years	3,174	1,596	923	655	20.6	1,609	1,261	348	21.7
20 years and over	35,953	30,253	2,593	3,107	8.6	8,197	7,698	499	6.1
20 to 24 years	6,542	5,020	713	810	12.4	1,168	1,051	117	10.0
25 years and over	29,411	25,233	1,881	2,298	7.8	7,029	6,647	382	5.4
25 to 54 years	25,170	21,515	1,572	2,083	8.3	5,353	5,051	302	5.6
55 years and over	4,241	3,718	308	215	5.1	1,677	1,596	80	4.8
White									
Men, 16 years and over	53,375	46,349	2,917	4,110	7.7	3,721	3,291	430	11.6
16 to 19 years	3,461	1,988	903	571	16.5	1,268	1,012	256	20.2
20 years and over	49,914	44,361	2,014	3,539	7.1	2,453	2,279	174	7.1
20 to 24 years	7,338	5,860	600	878	12.0	615	535	80	13.0
25 years and over	42,576	38,501	1,414	2,661	6.3	1,838	1,744	93	5.1
25 to 54 years	35,598	32,073	1,167	2,357	6.6	709	660	49	6.9
55 years and over	6,978	6,428	248	303	4.3	1,129	1,084	45	4.0
Women, 16 years and over	32,908	27,346	2,899	2,663	8.1	8,906	8,211	696	7.8
16 to 19 years	2,720	1,460	802	458	16.8	1,449	1,168	281	19.4
20 years and over	30,188	25,886	2,097	2,205	7.3	7,458	7,043	415	5.6
20 to 24 years	5,627	4,493	582	552	9.8	1,004	923	81	8.1
25 years and over	24,561	21,393	1,514	1,654	6.7	6,453	6,120	334	5.2
25 to 54 years	20,830	18,084	1,270	1,475	7.1	4,959	4,695	264	5.3
55 years and over	3,732	3,309	244	179	4.8	1,494	1,425	70	4.7
Black									
Men, 16 years and over	5,861	4,098	549	1,214	20.7	452	328	124	27.4
16 to 19 years	491	163	106	222	45.2	161	92	69	42.8
20 years and over	5,370	3,935	443	992	18.5	291	236	55	18.8
20 to 24 years	994	539	151	304	30.6	74	62	12	(²)
25 years and over	4,375	3,395	292	688	15.7	216	174	43	19.9
25 to 54 years	3,779	2,916	231	631	16.7	118	96	23	19.5
55 years and over	596	479	61	57	9.6	98	78	20	20.4
Women, 16 years and over	5,193	3,647	536	1,010	19.5	680	559	121	17.9
16 to 19 years	410	110	107	192	47.0	132	74	58	(²)
20 years and over	4,783	3,537	429	818	17.1	548	485	63	11.5
20 to 24 years	789	420	123	245	31.1	120	92	28	23.4
25 years and over	3,995	3,117	305	556	13.9	427	392	36	8.4
25 to 54 years	3,569	2,770	258	540	15.1	270	245	26	9.6
55 years and over	426	347	47	16	3.7	157	147	10	6.4

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

² Data not shown where base is less than 75,000.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Family relationship	July 1983									
	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	113,980	65.4	103,273	10,707	9.4	60,326	32,580	2,211	2,455	23,080
Husbands	39,800	79.5	37,553	2,247	5.8	10,233	136	126	861	9,111
With employed wife	21,779	91.9	20,659	1,120	5.1	1,912	47	70	269	1,526
With unemployed wife	1,658	91.9	1,406	252	15.2	146	3	3	33	107
With wife not in labor force	16,363	66.7	15,488	874	5.3	8,175	86	52	560	7,477
Wives	25,496	51.0	23,691	1,804	7.1	24,538	21,251	202	242	2,842
With employed husband	22,065	58.6	20,659	1,406	6.4	15,488	13,879	169	69	1,371
With unemployed husband	1,372	61.1	1,120	252	18.4	874	820	4	9	42
With husband not in labor force	2,056	20.1	1,912	146	7.1	8,175	6,552	29	164	1,429
Relatives in married-couple families	16,444	72.8	13,744	2,700	16.4	6,138	1,158	1,016	295	3,670
16 to 19 years	7,229	69.5	5,879	1,350	16.7	3,175	257	525	11	2,382
20 to 24 years	6,276	84.5	5,402	674	13.9	1,149	246	391	33	479
25 years and over	2,939	61.6	2,463	476	16.2	1,814	655	100	251	809
Women who maintain families	5,704	58.4	5,012	692	12.1	4,070	3,129	94	144	703
Relatives in families maintained by women	5,670	64.8	4,366	1,303	23.0	3,086	924	308	268	1,587
16 to 19 years	1,784	61.2	1,233	551	30.9	1,131	169	160	10	792
20 to 24 years	1,775	79.9	1,371	404	22.8	447	162	97	14	175
25 years and over	2,111	58.3	1,762	348	16.5	1,508	593	51	244	620
Men who maintain families	1,839	78.9	1,649	190	10.3	553	23	15	51	464
Relatives in families maintained by men	1,593	63.7	1,305	287	18.0	909	392	109	54	352
16 to 19 years	373	65.1	284	89	23.8	200	47	44	1	108
20 to 24 years	483	80.3	391	92	19.0	119	32	36	-	51
25 years and over	737	55.6	630	106	14.4	590	313	29	53	193
Persons living alone	10,302	52.9	9,643	659	6.4	9,173	4,987	125	423	3,639
Men	5,481	72.1	5,048	435	7.9	2,126	112	77	187	1,750
Women	4,821	40.8	4,597	225	4.7	7,047	4,875	48	236	1,889
All others ¹	7,132	81.4	6,310	825	11.6	1,626	580	216	117	712

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983
Total, 16 years and over	6,172	6,097	9.6	9.4	4,863	4,610	10.0	9.4
Married, spouse present	2,593	2,366	6.3	5.8	1,928	1,846	7.6	7.2
Widowed, divorced, or separated	619	701	11.1	12.0	927	885	10.0	9.6
Single (never married)	2,960	3,030	16.8	16.5	2,009	1,879	14.6	13.5
White, 16 years and over	4,771	4,540	8.4	8.0	3,607	3,359	8.7	8.0
Married, spouse present	2,152	1,919	5.8	5.2	1,607	1,539	7.1	6.7
Widowed, divorced, or separated	461	520	10.0	10.8	722	605	9.6	8.2
Single (never married)	2,158	2,101	14.5	13.6	1,278	1,214	11.2	10.6
Black, 16 years and over	1,217	1,337	20.2	21.2	1,098	1,132	19.2	19.3
Married, spouse present	349	374	11.8	12.3	253	250	12.0	11.7
Widowed, divorced, or separated	147	153	16.9	17.1	183	246	11.9	15.4
Single (never married)	721	811	32.8	34.1	661	636	32.0	29.8
Total, 25 years and over	3,580	3,602	7.2	7.2	2,711	2,679	7.6	7.4
Married, spouse present	2,285	2,126	6.0	5.5	1,507	1,523	6.7	6.6
Widowed, divorced, or separated	569	663	10.7	12.0	806	782	9.2	9.0
Single (never married)	728	814	12.1	12.8	398	375	8.9	8.0
White, 25 years and over	2,821	2,755	6.4	6.2	2,068	1,987	6.8	6.4
Married, spouse present	1,876	1,705	5.4	4.9	1,242	1,274	6.2	6.2
Widowed, divorced, or separated	420	485	9.6	10.7	617	529	8.7	7.6
Single (never married)	525	565	10.3	10.6	210	184	6.0	5.1
Black, 25 years and over	650	730	14.7	15.9	549	608	12.9	13.7
Married, spouse present	326	355	11.6	12.2	207	201	10.9	10.2
Widowed, divorced, or separated	139	150	16.6	17.2	174	223	11.8	14.6
Single (never married)	183	226	23.8	27.6	170	183	19.6	19.8

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-11. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983
Total, 18 years and over	11,036	10,707	9.8	9.4	9.6	9.4	10.0	9.4
Managerial and professional specialty	888	887	3.8	3.6	(¹)	3.1	(¹)	4.3
Executive, administrative, and managerial	435	389	3.9	3.5	(¹)	3.1	(¹)	4.3
Professional specialty	453	478	3.6	3.7	(¹)	3.2	(¹)	4.3
Technical, sales, and administrative support	2,028	2,138	6.1	6.3	(¹)	5.4	(¹)	8.8
Technicians and related support	149	156	4.6	4.7	(¹)	5.6	(¹)	3.8
Sales occupations	750	842	6.2	6.5	(¹)	4.6	(¹)	8.6
Administrative support, including clerical	1,130	1,140	6.4	6.4	(¹)	6.7	(¹)	6.4
Service occupations	1,729	1,657	11.2	10.5	(¹)	10.2	(¹)	10.7
Private household	90	85	7.9	7.8	(¹)	(¹)	(¹)	7.7
Protective service	106	135	6.1	7.1	(¹)	6.3	(¹)	11.6
Service, except private household and protective	1,533	1,437	12.2	11.2	(¹)	11.5	(¹)	11.1
Precision production, craft, and repair	1,296	1,334	9.6	9.4	(¹)	9.5	(¹)	8.7
Mechanics and repairers	285	334	6.6	7.4	(¹)	7.6	(¹)	2.4
Construction trades	637	612	13.1	11.7	(¹)	11.8	(¹)	4.8
Other precision production, craft, and repair	374	388	8.5	8.8	(¹)	8.4	(¹)	10.1
Operators, fabricators, and laborers	3,254	2,716	16.1	14.1	(¹)	13.9	(¹)	14.6
Machine operators, assemblers, and inspectors	1,608	1,293	16.8	14.3	(¹)	13.7	(¹)	15.0
Transportation and material moving occupations	596	523	12.2	10.9	(¹)	10.9	(¹)	12.0
Handlers, equipment cleaners, helpers, and laborers	1,051	902	18.0	16.5	(¹)	17.1	(¹)	13.7
Construction laborers	215	165	25.3	16.9	(¹)	19.0	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	836	737	16.6	16.1	(¹)	16.6	(¹)	13.7
Farming, forestry, and fishing	298	379	6.0	7.4	(¹)	7.1	(¹)	8.5
No previous work experience	1,559	1,558	-	-	-	-	-	-
16 to 19 years	1,190	1,184	-	-	-	-	-	-
20 to 24 years	244	237	-	-	-	-	-	-
25 years and over	125	137	-	-	-	-	-	-

¹ Data for 1982 are not shown because they do not meet reliability standards for publication.

² Data not shown where base is less than 75,000.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-12. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983
Total, 16 years and over	11,038	10,707	9.8	9.4	9.8	9.4	10.0	9.4
Nonagricultural private wage and salary workers	8,193	7,720	9.9	9.2	10.2	9.8	9.5	8.8
Mining	187	191	15.8	17.1	17.3	18.5	8.8	10.7
Construction	878	821	16.3	14.2	16.8	14.8	10.9	7.9
Manufacturing	2,823	2,317	12.3	10.6	11.5	10.2	13.9	11.4
Durable goods	1,839	1,485	13.5	11.6	13.0	11.4	15.0	12.0
Lumber and wood products	107	101	16.1	14.6	15.2	14.6	20.9	(¹)
Furniture and fixtures	77	59	14.4	10.3	11.9	9.5	19.2	11.8
Stone, clay, and glass products	76	58	13.1	9.3	11.3	9.0	18.6	10.4
Primary metal industries	243	179	21.0	18.3	21.1	16.0	19.6	20.1
Fabricated metal products	283	222	17.5	15.8	16.8	15.0	19.9	19.0
Machinery, except electrical	330	345	11.5	12.8	11.9	13.1	10.1	11.9
Electrical machinery, equipment, and supplies	246	191	9.5	8.1	6.6	8.2	13.0	10.5
Transportation equipment	321	236	14.6	10.3	13.6	9.9	19.9	12.2
Automobiles	189	112	18.2	10.6	16.1	10.0	28.8	14.2
Other transportation equipment	132	127	11.4	10.0	11.3	9.8	12.1	10.7
Professional and photographic equipment	56	39	7.9	5.4	6.5	4.1	9.7	7.3
Other durable goods industries	119	52	14.6	10.6	12.3	10.0	18.0	11.5
Nondurable goods	984	832	10.5	9.2	6.8	8.0	12.9	10.8
Food and kindred products	215	218	10.9	11.2	8.8	9.1	15.9	15.6
Textile mill products	163	91	19.6	11.1	19.3	11.7	19.9	10.4
Apparel and other textile products	192	138	14.1	10.7	10.9	10.5	14.9	10.8
Paper and allied products	57	55	7.6	7.1	7.3	5.3	8.6	12.3
Printing and publishing	112	108	6.9	6.4	7.4	6.2	6.2	6.6
Chemicals and allied products	75	80	5.6	6.6	4.6	6.6	8.1	6.6
Rubber and miscellaneous plastics products	108	68	13.6	8.7	10.7	7.0	18.3	12.1
Other nondurable goods industries	61	75	9.4	13.4	10.3	11.5	8.6	16.2
Transportation and public utilities	360	363	6.0	6.3	6.4	7.2	5.2	4.1
Transportation	303	272	9.1	7.0	9.5	7.9	7.9	3.7
Communications and other public utilities	57	91	2.2	3.6	1.5	3.6	3.3	3.5
Wholesale and retail trade	2,161	2,046	10.2	9.6	9.4	8.7	11.1	10.5
Wholesale trade	335	336	8.1	7.7	7.6	7.1	9.2	9.3
Retail trade	1,826	1,710	10.6	10.0	10.1	9.3	11.3	10.7
Finance, insurance, and real estate	297	282	5.0	4.5	4.0	4.1	5.6	4.8
Service industries	1,488	1,699	7.3	7.9	7.5	8.1	7.2	7.7
Professional services	640	667	5.8	5.5	5.5	4.9	5.7	5.8
Other service industries	848	1,032	9.6	10.9	9.1	10.6	10.0	11.1
Agricultural wage and salary workers	243	263	11.4	11.3	10.0	10.8	16.2	13.2
Government, self-employed, and unpaid family workers	1,041	1,166	4.0	4.4	3.3	4.0	4.9	5.0
No previous work experience	1,559	1,558	-	-	-	-	-	-

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

NOTE: Data for 1982 are not fully comparable with 1983 data as a

result of revisions in industrial classifications in 1983.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Reason for unemployment	Total unemployed		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983
NUMBER OF UNEMPLOYED												
Total unemployed	11,036	10,707	4,940	4,922	3,769	3,606	2,326	2,179	8,378	7,899	2,315	2,469
Job losers	6,078	5,890	3,811	3,709	1,850	1,840	417	341	4,752	4,517	1,245	1,318
On layoff	2,023	1,609	1,294	989	633	549	96	71	1,667	1,342	312	237
Other job losers	4,055	4,281	2,517	2,720	1,217	1,291	321	270	3,085	3,175	933	1,082
Job leavers	854	787	314	318	407	354	133	95	740	624	17	20
Reentrants	2,553	2,492	857	747	1,304	1,187	592	558	1,916	1,715	540	677
New entrants	1,551	1,559	159	147	208	226	1,184	1,166	969	1,042	513	454
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	55.0	55.0	77.1	75.4	49.1	51.0	17.9	15.7	56.7	57.2	53.8	53.4
On layoff	18.3	15.0	26.2	20.1	16.8	15.2	4.1	3.3	19.9	17.0	13.5	9.6
Other job losers	36.7	40.0	50.9	55.3	32.3	35.8	13.8	12.4	36.8	40.2	40.3	43.8
Job leavers	7.7	7.2	6.4	6.5	10.8	9.8	5.7	4.3	8.8	7.9	.7	.8
Reentrants	23.1	23.3	13.3	15.2	34.6	32.9	25.5	25.6	22.9	21.7	23.3	27.4
New entrants	14.1	14.8	3.2	3.0	5.5	6.3	50.9	54.4	11.8	13.2	22.2	18.4
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	5.4	5.2	6.5	6.3	4.3	4.1	3.9	3.3	4.8	4.6	10.6	10.8
Job leavers .....	.6	.7	.5	.5	.9	.8	1.3	.9	.8	.8	.1	.2
Reentrants	2.3	2.2	1.1	1.3	3.0	2.7	5.6	5.4	2.0	1.7	4.6	5.6
New entrants	1.4	1.4	.3	.2	.5	.5	11.2	11.5	1.0	1.1	4.4	3.7

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

(Percent distribution)

Reason, sex, and age	July 1983						
	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	10,707	100.0	34.6	28.4	36.9	12.3	24.6
Job losers	5,890	100.0	28.1	22.9	49.0	15.9	33.1
On layoff	1,609	100.0	39.7	21.3	38.9	12.6	26.3
Other job losers	4,281	100.0	23.8	23.5	52.7	17.1	35.6
Job leavers	767	100.0	44.4	25.9	29.7	9.4	20.3
Reentrants	2,492	100.0	42.6	33.2	24.2	8.5	15.7
New entrants	1,559	100.0	41.6	43.0	15.3	8.4	9.0
Men, 20 years and over	4,922	100.0	27.1	24.0	48.9	14.4	34.6
Job losers	3,709	100.0	25.0	21.3	53.7	15.9	37.8
On layoff	989	100.0	38.1	17.7	44.3	14.6	29.6
Other job losers	2,720	100.0	20.3	22.7	57.1	16.3	40.7
Job leavers	318	100.0	33.8	29.2	37.0	8.9	28.1
Reentrants	747	100.0	33.0	31.4	35.6	11.1	24.5
New entrants	147	100.0	35.4	40.9	23.6	4.8	18.9
Women, 20 years and over	3,606	100.0	38.4	26.9	34.7	12.3	22.4
Job losers	1,840	100.0	29.2	25.8	44.9	16.5	28.4
On layoff	549	100.0	38.3	29.2	32.4	9.0	23.4
Other job losers	1,291	100.0	25.3	24.4	50.3	19.7	30.8
Job leavers	354	100.0	49.2	21.6	29.1	11.6	17.6
Reentrants	1,187	100.0	47.6	29.1	23.2	7.9	15.4
New entrants	226	100.0	47.9	31.5	20.7	2.4	18.3
Both sexes, 16 to 19 years	2,179	100.0	45.4	41.2	13.4	7.6	5.7
Job losers	341	100.0	56.5	24.0	19.4	12.5	7.0
On layoff	71	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Other job losers	270	100.0	52.0	27.3	20.7	12.7	8.0
Job leavers	95	100.0	61.9	30.8	7.4	3.1	4.3
Reentrants	558	100.0	44.7	44.3	11.0	6.2	4.8
New entrants	1,186	100.0	41.2	45.5	13.3	7.3	6.0

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

A-15. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983
Total, 16 years and over	11,036	10,707	100.0	100.0	9,472	9,279	100.0	100.0
Less than 5 weeks	4,197	3,708	38.0	34.6	3,333	2,996	35.2	32.3
5 to 14 weeks	3,613	3,046	32.7	28.4	3,087	2,545	32.6	27.4
5 to 10 weeks	2,809	2,420	25.5	22.6	2,343	1,983	24.7	21.4
11 to 14 weeks	804	625	7.3	5.8	744	562	7.9	6.1
15 weeks and over	3,226	3,953	29.2	36.9	3,052	3,738	32.2	40.3
15 to 26 weeks	1,377	1,318	12.5	12.3	1,299	1,222	13.7	13.2
27 weeks and over	1,849	2,636	16.8	24.6	1,753	2,516	16.5	27.1
27 to 51 weeks	1,120	1,139	10.1	10.6	1,055	1,078	11.1	11.6
52 weeks and over	729	1,496	6.6	14.0	698	1,438	7.4	15.5
Average (mean) duration, in weeks	14.4	20.0	-	-	15.5	21.5	-	-
Median duration, in weeks	7.4	8.8	-	-	8.3	9.9	-	-

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-16. Unemployed persons by sex, age, race, marital status, and duration of unemployment

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								July 1982	July 1983	July 1982	July 1983
	July 1983										
Total, 16 years and over	10,707	3,708	3,046	1,318	2,638	20.0	8.8	38.0	34.8	29.2	38.9
16 to 19 years	2,179	989	898	166	125	9.1	5.5	46.4	45.4	12.1	13.4
20 to 24 years	2,247	835	700	253	458	17.1	8.1	40.1	37.2	28.9	31.7
25 to 34 years	2,945	970	890	429	856	22.6	10.8	34.4	32.9	33.8	43.6
35 to 44 years	1,613	438	391	217	589	25.7	14.3	38.1	27.0	38.2	48.7
45 to 54 years	976	250	225	144	358	27.5	18.1	33.8	25.6	37.8	51.4
55 to 64 years	634	180	106	102	246	29.8	18.8	30.1	28.4	40.7	54.8
65 years and over	112	46	36	7	23	15.5	7.1	25.5	41.5	42.1	26.5
Men, 16 years and over	6,097	1,861	1,641	802	1,793	22.8	10.5	34.8	30.5	33.3	42.6
16 to 19 years	1,175	527	462	94	92	10.0	5.5	43.7	44.9	14.0	15.8
20 to 24 years	1,320	411	436	174	300	18.6	9.2	36.9	31.1	32.6	35.9
25 to 34 years	1,695	458	361	258	619	26.6	16.3	29.3	27.0	38.8	51.7
35 to 44 years	906	204	203	124	375	29.8	19.4	33.2	22.5	40.9	55.1
45 to 54 years	549	132	108	80	230	31.2	20.2	33.5	24.0	43.0	56.4
55 to 64 years	387	100	58	67	163	32.8	21.4	27.1	25.9	43.5	59.2
65 years and over	64	29	14	5	16	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	4,610	1,847	1,405	516	842	16.1	7.0	42.3	40.1	24.0	29.5
16 to 19 years	1,004	462	436	72	34	7.9	5.5	49.3	48.0	10.0	10.5
20 to 24 years	927	425	265	79	158	15.1	6.2	44.3	45.9	24.1	25.6
25 to 34 years	1,250	512	329	171	237	17.1	7.0	41.3	41.0	26.6	32.7
35 to 44 years	707	232	188	93	194	20.5	10.8	39.8	32.8	30.3	40.6
45 to 54 years	427	118	117	64	128	22.7	10.9	34.2	27.7	30.8	45.0
55 to 64 years	247	80	49	35	84	25.1	12.8	34.0	32.4	37.3	48.0
65 years and over	48	17	22	2	7	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	7,899	2,710	2,270	1,000	1,920	19.7	8.9	38.6	34.3	28.7	37.0
Men	4,540	1,376	1,217	622	1,324	22.7	10.6	35.5	30.3	32.7	42.9
Women	3,359	1,334	1,052	378	595	15.6	6.9	42.8	39.7	23.4	29.0
Black, 16 years and over	2,469	873	676	280	640	20.8	7.8	34.4	35.4	32.2	37.3
Men	1,337	399	356	164	418	23.9	9.8	30.1	29.9	36.5	43.6
Women	1,132	474	321	115	222	17.1	6.0	39.2	41.8	27.5	29.8
Men, 16 years and over:											
Married, spouse present	2,366	608	473	385	900	27.7	18.2	31.2	25.7	39.5	54.3
Widowed, divorced, or separated	701	162	148	87	306	31.4	20.9	35.7	23.1	36.3	56.1
Single (never married)	3,030	1,090	1,022	330	587	17.0	7.4	37.4	36.0	26.9	30.3
Women, 16 years and over:											
Married, spouse present	1,846	695	514	235	402	17.5	7.8	42.2	37.7	25.3	34.5
Widowed, divorced, or separated	885	314	220	117	235	21.1	9.4	38.1	35.4	32.7	39.7
Single (never married)	1,879	838	671	164	206	12.5	5.9	44.5	44.8	18.7	19.7

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-17. Unemployed persons by occupation, industry, and duration of unemployment

Occupation and industry	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
	July 1983							July 1982	July 1983	July 1982	July 1983
OCCUPATION											
Managerial and professional specialty	867	290	250	125	203	19.4	9.3	38.8	33.4	27.0	37.7
Technical, sales, and administrative support	2,138	771	603	296	468	18.5	8.6	40.5	36.1	25.9	35.7
Service occupations	1,857	663	458	213	323	17.1	7.8	40.0	40.0	26.0	32.3
Precision production, craft, and repair	1,334	367	286	174	507	27.0	16.0	32.8	27.5	34.3	51.0
Operators, fabricators, and laborers	2,718	806	616	375	921	25.5	13.4	33.3	29.7	38.8	47.7
Farming, forestry, and fishing	379	145	147	24	62	14.6	6.4	45.5	38.4	25.9	22.8
INDUSTRY¹											
Agriculture	263	115	106	12	31	10.5	5.8	52.5	43.7	21.5	16.1
Construction	843	269	198	111	267	23.3	11.5	33.8	31.9	38.2	44.9
Manufacturing	2,326	620	484	352	870	27.7	17.0	32.0	26.6	39.4	52.5
Durable goods	1,494	341	277	218	658	31.5	22.1	30.4	22.9	42.2	58.6
Nondurable goods	832	278	208	134	212	20.8	10.2	34.9	33.4	34.4	41.6
Transportation and public utilities	430	124	83	66	156	25.2	16.4	33.1	28.8	34.3	51.8
Wholesale and retail trade	2,054	748	602	286	418	17.7	8.4	40.4	36.4	25.1	34.3
Finance and service industries	2,521	968	730	294	530	17.9	7.9	39.3	38.4	27.1	32.7
Public administration	324	95	97	37	95	25.1	9.9	35.7	29.2	32.4	40.9
No previous work experience	1,558	648	671	99	140	11.0	5.9	44.9	41.6	14.8	15.3

¹ Includes wage and salary workers only.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-18. Unemployed jobseekers by sex, age, race, and jobsearch methods used

Sex, age, and race	July 1983								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 18 years and over	10,707	8,954	24.9	4.9	79.4	34.6	17.5	4.8	1.66
16 to 19 years	2,179	2,073	15.1	2.3	84.0	27.0	17.5	4.0	1.50
20 to 24 years	2,247	1,951	25.5	5.3	79.7	38.1	16.4	3.9	1.69
25 to 34 years	2,945	2,373	29.5	4.6	79.3	37.5	17.3	3.8	1.72
35 to 44 years	1,613	1,291	28.0	5.6	77.5	34.9	16.5	5.2	1.68
45 to 54 years	976	724	30.1	9.8	73.2	38.5	17.4	6.2	1.75
55 to 64 years	634	459	27.9	7.4	74.9	34.6	22.7	8.7	1.76
65 years and over	112	84	17.9	4.8	67.9	23.8	33.3	10.7	1.58
Men, 16 years and over	6,097	4,989	26.8	5.1	80.0	32.6	19.7	5.5	1.70
16 to 19 years	1,175	1,119	14.5	2.1	82.9	28.3	21.7	3.3	1.51
20 to 24 years	1,320	1,119	29.5	5.7	80.5	33.8	16.8	4.6	1.71
25 to 34 years	1,695	1,312	30.7	4.3	80.9	34.7	19.9	4.6	1.75
35 to 44 years	906	718	33.7	6.5	78.8	35.1	18.7	8.1	1.81
45 to 54 years	549	403	31.0	9.9	73.0	37.2	19.9	7.9	1.79
55 to 64 years	387	268	26.1	7.5	78.4	31.0	23.9	10.4	1.77
65 years and over	64	50	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	4,610	3,965	22.5	4.8	78.6	37.2	14.6	3.4	1.81
16 to 19 years	1,004	954	15.7	2.4	85.1	27.6	12.6	4.7	1.48
20 to 24 years	927	832	20.1	4.8	78.6	44.0	15.7	3.0	1.66
25 to 34 years	1,250	1,061	27.9	5.1	77.2	40.9	14.1	2.9	1.68
35 to 44 years	707	573	20.8	4.4	75.9	34.7	13.8	1.6	1.51
45 to 54 years	427	321	29.0	10.0	73.5	40.2	14.6	4.0	1.71
55 to 64 years	247	190	30.0	7.9	70.5	40.0	20.5	5.8	1.75
65 years and over	48	34	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	7,899	6,423	23.5	5.3	80.0	36.4	17.8	4.7	1.68
Men	4,540	3,601	26.3	5.7	80.6	33.6	20.0	6.0	1.72
Women	3,359	2,822	20.0	4.9	79.2	40.0	15.0	3.0	1.62
Black, 16 years and over	2,469	2,226	29.4	3.9	78.1	15.9	28.8	3.6	1.60
Men	1,337	1,195	29.5	3.2	79.1	17.8	28.6	3.4	1.82
Women	1,132	1,031	29.3	4.7	77.0	13.6	29.1	4.3	1.58

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

NOTE: The jobseekers total is less than the total unemployed because persons on layoff or waiting to begin a new job within 30 days

are not actually seeking jobs. It should also be noted that the percent using each method will always total more than 100 because many jobseekers use more than one method.

A-19. Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used

Sex and reason	July 1983								
	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	10,707	8,954	24.9	4.9	79.4	34.6	17.5	4.6	1.66
Job losers ¹	5,890	4,261	32.2	6.0	80.1	36.2	18.0	4.9	1.77
Job leavers	767	765	21.2	6.0	77.6	38.8	17.4	4.2	1.65
Reentrants	2,492	2,379	19.9	4.2	75.9	36.0	16.7	4.3	1.57
New entrants	1,559	1,549	14.5	2.7	83.7	26.0	17.1	4.3	1.48
Men, 16 years and over	6,097	4,989	26.8	5.1	80.0	32.6	19.7	5.5	1.70
Job losers ¹	3,913	2,867	32.6	5.4	80.3	34.7	18.9	6.0	1.78
Job leavers	364	360	18.6	7.2	78.6	34.2	22.2	3.6	1.64
Reentrants	1,041	992	23.0	3.9	77.8	33.0	21.1	5.2	1.64
New entrants	778	770	14.0	4.4	82.5	23.6	20.3	4.8	1.50
Women, 16 years and over	4,610	3,965	22.5	4.8	78.6	37.2	14.6	3.4	1.61
Job losers ¹	1,977	1,394	31.1	7.3	79.6	39.4	16.4	2.6	1.76
Job leavers	403	405	23.5	4.9	76.8	42.7	13.1	4.4	1.65
Reentrants	1,450	1,385	17.8	4.3	74.6	38.3	13.8	3.6	1.52
New entrants	780	780	14.9	1.0	84.9	28.3	13.8	3.8	1.47

¹ Data on the number of jobseekers and the jobsearch methods used exclude persons on layoff.

NOTE: The jobseeker total is less than the total unemployed because it does not include persons on layoff or waiting to begin a new job within

30 days, groups for whom jobseeking information is not collected. The percent using each method will always total more than 100 because many jobseekers use more than one method.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-20. Employed civilians in agriculture and nonagricultural industries by age and sex

(In thousands)

Industry and age	Total		Men		Women	
	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983
All industries	101,490	103,273	57,923	58,950	43,567	44,323
16 to 19 years	8,206	8,159	4,304	4,380	3,902	3,779
16 to 17 years	3,380	3,270	1,806	1,800	1,574	1,470
18 to 19 years	4,826	4,889	2,498	2,580	2,328	2,309
20 to 24 years	14,407	14,672	7,728	7,888	6,679	6,783
25 to 54 years	64,605	66,298	37,301	38,160	27,303	28,138
25 to 34 years	27,867	28,711	16,054	16,396	11,813	12,315
35 to 44 years	20,814	21,798	11,988	12,529	8,825	9,268
45 to 54 years	15,924	15,790	9,259	9,235	6,665	6,554
55 to 64 years	11,331	11,235	6,795	6,704	4,536	4,531
55 to 59 years	6,980	8,833	4,176	4,102	2,805	2,731
60 to 64 years	4,351	4,401	2,620	2,602	1,731	1,800
65 years and over	2,941	2,910	1,794	1,818	1,146	1,092
Agriculture	4,023	4,129	3,156	3,231	667	898
16 to 19 years	632	629	514	489	119	139
16 to 17 years	348	327	289	249	59	78
18 to 19 years	285	302	225	240	60	61
20 to 24 years	531	566	416	454	115	113
25 to 54 years	2,047	2,084	1,545	1,588	502	496
25 to 34 years	881	907	704	719	178	188
35 to 44 years	594	612	415	453	179	160
45 to 54 years	572	565	427	417	144	148
55 to 64 years	495	544	401	426	94	118
55 to 59 years	274	295	221	230	53	65
60 to 64 years	221	249	180	196	41	53
65 years and over	318	306	280	274	38	32
Nonagricultural industries	97,467	99,144	54,767	55,719	42,700	43,425
16 to 19 years	7,574	7,530	3,791	3,891	3,783	3,640
16 to 17 years	3,032	2,943	1,517	1,551	1,515	1,392
18 to 19 years	4,542	4,588	2,273	2,340	2,268	2,248
20 to 24 years	13,876	14,105	7,312	7,435	6,564	6,671
25 to 54 years	62,558	64,214	35,756	36,572	26,802	27,642
25 to 34 years	26,986	27,804	15,351	15,677	11,836	12,127
35 to 44 years	20,220	21,185	11,574	12,076	8,646	9,109
45 to 54 years	15,352	15,225	8,832	8,818	6,520	6,406
55 to 64 years	10,836	10,691	6,394	6,278	4,442	4,412
55 to 59 years	6,707	6,538	3,955	3,872	2,752	2,666
60 to 64 years	4,130	4,152	2,439	2,406	1,690	1,746
65 years and over	2,623	2,604	1,514	1,544	1,108	1,060

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983
Total	101,490	103,273	57,923	58,950	53,619	54,570	43,587	44,323	39,865	40,544
Managerial and professional specialty	22,707	23,166	13,822	13,855	13,502	13,732	9,084	9,311	8,913	9,194
Executive, administrative, and managerial	10,882	10,740	7,217	7,299	7,168	7,258	3,466	3,441	3,401	3,414
Officials and administrators, public administration	(¹)	516	(¹)	331	(¹)	331	(¹)	167	(¹)	166
Other executive, administrative, and managerial	(¹)	7,276	(¹)	5,182	(¹)	5,146	(¹)	2,094	(¹)	2,069
Management-related occupations	(¹)	2,946	(¹)	1,787	(¹)	1,781	(¹)	1,160	(¹)	1,157
Professional specialty	12,024	12,425	6,405	6,556	6,334	6,474	5,619	5,870	5,512	5,780
Engineers	1,615	1,666	1,490	1,579	1,491	1,574	125	87	125	87
Mathematical and computer scientists	536	484	367	320	386	320	149	164	150	164
Natural scientists	354	382	284	283	283	263	70	79	69	77
Health diagnosing occupations	661	714	594	648	594	648	67	66	67	65
Health assessment and treating occupations	1,872	1,991	282	248	280	248	1,591	1,743	1,587	1,736
Teachers, college and university	464	493	303	320	302	319	181	173	181	173
Teachers, except college and university	2,748	2,710	777	713	758	699	1,971	1,997	1,938	1,953
Lawyers and judges	659	679	553	576	550	573	106	103	106	103
Other professional specialty occupations	3,095	3,326	1,736	1,867	1,690	1,810	1,359	1,458	1,289	1,423
Technical, sales, and administrative support	31,082	31,787	11,154	11,361	10,553	10,738	19,929	20,426	18,115	18,752
Technicians and related support	3,113	3,142	1,762	1,594	1,731	1,573	1,350	1,548	1,313	1,527
Health technologists and technicians	1,052	1,171	198	183	197	183	854	988	832	980
Engineering and science technicians	1,189	987	948	790	927	779	241	196	232	189
Technicians, except health, engineering, and science	872	984	616	621	607	611	256	364	248	359
Sales occupations	11,356	12,060	6,085	6,403	5,752	6,041	5,271	5,656	4,344	4,790
Supervisors and proprietors	2,824	3,073	2,176	2,189	2,168	2,151	649	884	633	876
Sales representatives, finance and business services	1,781	1,969	1,161	1,274	1,157	1,272	620	694	610	676
Sales representatives, commodities, except retail	1,398	1,457	1,180	1,223	1,159	1,218	218	234	210	229
Sales workers, retail and personal services	5,331	5,501	1,562	1,693	1,262	1,377	3,766	3,807	2,674	2,978
Sales-related occupations	21	60	5	24	5	23	16	36	16	33
Administrative support, including clerical	16,613	16,566	3,307	3,363	3,070	3,124	13,307	13,223	12,458	12,434
Supervisors	(¹)	721	(¹)	320	(¹)	322	(¹)	401	(¹)	398
Computer equipment operators	620	604	226	209	221	197	394	394	379	369
Secretaries, stenographers, and typists	4,905	4,959	83	98	77	87	4,822	4,861	4,551	4,606
Financial records processing	2,466	2,494	237	265	219	255	2,229	2,229	2,154	2,172
Mail and message distributing	800	793	563	542	527	513	237	251	207	235
Other administrative support, including clerical	(¹)	7,015	(¹)	1,929	(¹)	1,751	(¹)	5,086	(¹)	4,654
Service occupations	13,739	14,155	5,383	5,715	4,335	4,573	6,356	6,440	6,866	6,932
Private household	1,044	1,006	26	30	16	17	1,018	977	739	705
Protective service	1,634	1,761	1,445	1,510	1,387	1,451	189	251	165	182
Service, except private household and protective	11,062	11,387	3,912	4,175	2,931	3,105	7,150	7,212	5,961	6,044
Food service	4,953	4,940	1,674	1,847	1,049	1,165	3,280	3,093	2,460	2,343
Health service	1,759	1,755	194	200	177	180	1,565	1,555	1,449	1,429
Cleaning and building service	2,614	2,803	1,613	1,707	1,373	1,422	1,001	1,096	905	972
Personal service	1,736	1,888	431	421	332	338	1,305	1,467	1,147	1,300
Precision production, craft, and repair	12,181	12,631	11,296	11,789	10,862	11,378	884	1,042	854	989
Mechanics and repairers	3,910	4,171	3,797	4,053	3,648	3,927	113	118	107	119
Construction trades	4,228	4,632	4,095	4,515	3,877	4,292	133	118	124	95
Other precision production, craft, and repair	4,043	4,028	3,404	3,222	3,338	3,159	638	806	623	775
Operators, fabricators, and laborers	17,017	16,591	12,555	12,344	11,241	11,027	4,461	4,247	4,208	3,968
Machine operators, assemblers, and inspectors	7,952	7,772	4,631	4,566	4,408	4,307	3,321	3,207	3,180	3,085
Manufacturing industries	6,741	6,605	3,786	3,797	3,642	3,606	2,955	2,806	2,836	2,723
Durable goods	3,749	3,433	2,490	2,362	2,401	2,249	1,259	1,070	1,228	1,047
Nondurable goods	2,992	3,173	1,297	1,435	1,241	1,357	1,696	1,738	1,608	1,677
Nonmanufacturing industries	1,211	1,167	845	768	766	700	366	399	344	362
Transportation and material moving occupations	4,291	4,260	3,998	3,984	3,820	3,830	293	276	285	271
Motor vehicle operators	2,964	2,918	2,723	2,677	2,590	2,560	241	239	235	234
Other transportation and material moving occupations	1,327	1,344	1,275	1,307	1,230	1,270	52	37	51	38
Handlers, equipment cleaners, helpers, and laborers	4,774	4,558	3,927	3,795	3,013	2,891	847	764	742	631
Construction laborers	636	707	620	686	487	563	16	20	9	15
Other handlers, equipment cleaners, helpers, and laborers	4,139	3,851	3,307	3,108	2,525	2,328	831	743	732	616
Farming, forestry, and fishing	4,705	4,743	3,886	3,886	3,093	3,123	819	857	678	689
Farm operators and managers	1,584	1,589	1,365	1,401	1,345	1,382	219	187	217	185
Other farming, forestry, and fishing occupations	3,122	3,155	2,521	2,485	1,748	1,741	600	670	462	505

¹ Data for 1982 are not shown because they do not meet reliability standards for publication.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	July 1982	July 1983	July 1982	July 1983	July 1982	July 1983
TOTAL						
Total, 16 years and over (thousands)	101,490	103,273	57,923	58,950	43,567	44,323
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	22.4	22.4	23.5	23.5	20.9	21.0
Executive, administrative, and managerial	10.5	10.4	12.5	12.4	8.0	7.8
Professional specialty	11.9	12.0	11.1	11.1	12.9	13.2
Technical, sales, and administrative support	30.6	30.6	19.3	19.3	45.8	46.1
Technicians and related support	3.1	3.0	3.0	2.7	3.1	3.5
Sales occupations	11.2	11.7	10.5	10.9	12.1	12.8
Administrative support, including clerical	16.4	16.1	5.7	5.7	30.6	29.6
Service occupations	13.5	13.7	9.3	9.7	19.2	19.0
Private household	1.0	1.0	(¹)	.1	2.3	2.2
Protective service	1.6	1.7	2.5	2.6	.4	.6
Service, except private household and protective	10.9	11.0	6.8	7.1	16.4	16.3
Precision production, craft, and repair	12.0	12.4	19.5	20.0	2.0	2.4
Operators, fabricators, and laborers	16.8	16.1	21.7	20.9	10.2	9.6
Machine operators, assemblers, and inspectors	7.8	7.5	8.0	7.7	7.6	7.2
Transportation and material moving occupations	4.2	4.1	6.9	6.6	.7	.6
Handlers, equipment cleaners, helpers, and laborers	4.7	4.4	6.8	6.4	1.9	1.7
Farming, forestry, and fishing	4.6	4.6	6.7	6.6	1.9	1.9
White						
Total, 16 years and over (thousands)	89,595	91,012	51,725	52,557	37,870	38,455
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	23.4	23.3	24.7	24.6	21.5	21.5
Executive, administrative, and managerial	11.2	10.9	13.2	13.0	8.4	8.1
Professional specialty	12.2	12.3	11.5	11.5	13.1	13.4
Technical, sales, and administrative support	31.3	31.4	19.6	19.6	47.2	47.5
Technicians and related support	3.0	3.1	3.0	2.7	3.0	3.5
Sales occupations	11.8	12.3	11.1	11.4	12.8	13.5
Administrative support, including clerical	16.4	16.0	5.5	5.5	31.3	30.5
Service occupations	12.3	12.6	8.3	8.8	17.8	17.8
Private household .....	.8	.7	(¹)	(¹)	1.9	1.7
Protective service	1.6	1.7	2.4	2.5	.4	.6
Service, except private household and protective	9.9	10.2	5.9	6.3	15.4	15.5
Precision production, craft, and repair	12.4	12.8	20.0	20.5	2.0	2.4
Operators, fabricators, and laborers	15.9	15.3	20.6	19.9	9.5	8.9
Machine operators, assemblers, and inspectors	7.4	7.1	7.7	7.4	7.1	6.6
Transportation and material moving occupations	4.1	4.0	6.7	6.5	.7	.6
Handlers, equipment cleaners, helpers, and laborers	4.4	4.2	6.2	5.9	1.8	1.7
Farming, forestry, and fishing	4.8	4.7	6.8	6.7	2.0	2.0
Black						
Total, 16 years and over (thousands)	9,447	9,717	4,822	4,976	4,625	4,741
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	(¹)	13.9	(¹)	11.3	(¹)	16.7
Executive, administrative, and managerial	(¹)	5.3	(¹)	5.4	(¹)	5.3
Professional specialty	(¹)	8.6	(¹)	5.9	(¹)	11.4
Technical, sales, and administrative support	(¹)	25.8	(¹)	14.9	(¹)	37.2
Technicians and related support	(¹)	2.5	(¹)	1.8	(¹)	3.3
Sales occupations	(¹)	6.3	(¹)	5.1	(¹)	7.6
Administrative support, including clerical	(¹)	16.9	(¹)	7.9	(¹)	26.3
Service occupations	(¹)	23.8	(¹)	18.6	(¹)	29.3
Private household	(¹)	3.1	(¹)	.1	(¹)	6.1
Protective service	(¹)	2.3	(¹)	3.9	(¹)	.5
Service, except private household and protective	(¹)	18.5	(¹)	14.6	(¹)	22.6
Precision production, craft, and repair	(¹)	9.1	(¹)	16.0	(¹)	1.9
Operators, fabricators, and laborers	(¹)	23.7	(¹)	33.1	(¹)	13.9
Machine operators, assemblers, and inspectors	(¹)	11.1	(¹)	10.9	(¹)	11.3
Transportation and material moving occupations	(¹)	5.7	(¹)	10.4	(¹)	.7
Handlers, equipment cleaners, helpers, and laborers	(¹)	7.0	(¹)	11.6	(¹)	1.9
Farming, forestry, and fishing	(¹)	3.6	(¹)	6.1	(¹)	1.1

¹ Less than 0.05 percent.

² Data for 1982 are not shown because they do not meet reliability

standards for publication.

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

(In thousands)

Age and sex	July 1983								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self-employed workers	Unpaid family workers	Wage and salary workers	Self-employed workers	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	91,100	1,404	15,100	74,596	7,689	355	2,062	1,719	348
16 to 19 years	7,393	439	781	6,173	105	32	488	56	85
16 to 17 years	2,874	319	367	2,188	47	22	246	33	49
18 to 19 years	4,520	121	414	3,985	58	10	242	23	36
20 to 24 years	13,747	182	1,344	12,221	328	31	435	81	51
25 to 34 years	25,849	181	4,082	21,586	1,894	61	521	335	51
35 to 44 years	19,117	143	3,825	15,150	1,984	84	266	301	45
45 to 54 years	13,590	168	2,848	10,573	1,566	68	178	340	46
55 to 64 years	9,422	163	1,909	7,350	1,213	56	130	385	49
55 to 59 years	5,812	74	1,186	4,552	894	33	71	188	36
60 to 64 years	3,610	89	723	2,796	519	23	58	177	13
65 years and over	1,982	129	309	1,544	597	24	48	241	20
Men, 16 years and over	50,392	314	7,670	42,408	5,266	60	1,599	1,504	128
16 to 19 years	3,798	152	391	3,256	72	21	356	54	78
16 to 17 years	1,498	102	192	1,204	31	21	172	33	44
18 to 19 years	2,300	50	199	2,051	40	-	184	21	34
20 to 24 years	7,194	70	650	8,475	229	11	345	73	36
25 to 34 years	14,366	30	1,995	12,351	1,303	8	426	289	4
35 to 44 years	10,738	15	1,951	8,772	1,338	-	197	256	-
45 to 54 years	7,732	12	1,509	6,211	1,082	4	136	281	-
55 to 64 years	5,449	8	1,013	4,428	821	8	95	326	4
55 to 59 years	3,407	-	629	2,778	463	2	56	172	2
60 to 64 years	2,042	8	384	1,650	358	5	40	154	2
65 years and over	1,113	27	171	916	421	9	43	225	6
Women, 16 years and over	40,708	1,090	7,430	32,188	2,422	296	463	215	220
16 to 19 years	3,595	288	390	2,917	33	11	131	2	7
16 to 17 years	1,375	217	175	984	16	1	74	-	5
18 to 19 years	2,220	71	215	1,934	17	11	57	2	2
20 to 24 years	6,552	112	694	5,746	99	20	90	8	15
25 to 34 years	11,463	151	2,097	9,235	592	53	95	45	47
35 to 44 years	8,379	127	1,874	6,378	646	84	69	45	45
45 to 54 years	5,858	156	1,339	4,363	484	64	42	60	47
55 to 64 years	3,972	154	897	2,922	392	48	34	39	45
55 to 59 years	2,405	74	558	1,774	231	30	15	16	34
60 to 64 years	1,566	81	339	1,148	161	18	19	23	11
65 years and over	869	103	138	628	176	16	2	16	13

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-24. Employed civilians by industry and occupation

(In thousands)

Industry	July 1983												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service ¹		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture	4,129	34	72	25	14	98	-	13	57	9	68	21	3,717
Mining	960	141	102	32	9	131	-	13	325	41	134	29	3
Construction	6,612	614	119	51	83	460	-	41	3,676	107	589	863	30
Manufacturing	20,141	1,957	1,580	663	671	2,446	-	378	3,822	6,605	817	1,081	122
Durable goods	11,710	1,165	1,063	495	301	1,374	-	202	2,675	3,433	391	501	110
Nondurable goods	8,430	792	517	168	370	1,072	-	175	1,146	3,173	426	580	12
Transportation and public utilities	7,158	717	372	258	235	2,038	-	227	1,255	91	1,490	447	27
Wholesale and retail trade	21,545	1,712	394	77	8,788	2,143	-	4,197	1,413	257	801	1,734	29
Wholesale trade	4,359	503	96	38	1,663	806	-	37	316	127	441	324	7
Retail trade	17,185	1,209	298	39	7,124	1,337	-	4,159	1,096	130	360	1,409	23
Finance, insurance, and real estate	6,650	1,441	166	134	1,542	2,800	-	294	146	19	6	17	85
Services	31,032	3,164	8,994	1,698	695	5,033	1,006	6,634	1,717	615	335	304	636
Private households	1,412	5	13	28	2	13	1,006	57	28	3	8	40	209
Other service industries	29,620	3,159	8,981	1,670	693	5,020	-	6,778	1,688	612	327	264	427
Professional services	19,962	1,818	7,916	1,381	100	3,759	-	4,023	434	146	164	73	147
Public administration	4,847	959	627	204	23	1,437	-	1,152	220	28	41	62	94

¹ Includes protective service, not shown separately.

NOTE: Detail may not add to totals because of changes in the estimation procedures.

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

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
	July 1982	July 1983	Total		Wage and salary workers ¹			
			July 1982	July 1983	Paid absences		Unpaid absences	
					July 1982	July 1983	July 1982	July 1983
Total, 16 years and over	11,607	11,523	11,489	11,377	6,918	6,937	3,774	3,751
Vacation	9,221	9,262	9,159	9,181	6,166	6,281	2,527	2,494
Illness	1,295	1,204	1,278	1,173	528	446	644	657
Bad weather	44	53	30	44	(²)	(²)	(²)	(²)
Industrial dispute	31	55	31	55	(²)	(²)	(²)	(²)
All other reasons	1,018	948	993	925	224	210	603	600
Men, 16 years and over	5,377	5,396	5,288	5,285	3,687	3,692	1,173	1,258
Vacation	4,215	4,181	4,169	4,124	3,301	3,294	642	661
Illness	653	726	638	696	292	290	280	360
All other reasons ³	508	489	481	464	93	108	251	237
Women, 16 years and over	6,230	8,126	8,201	6,093	3,230	3,246	2,601	2,493
Vacation	5,006	5,081	4,990	5,056	2,864	2,987	1,885	1,633
Illness	641	478	639	478	236	157	364	297
All other reasons ³	583	567	572	560	131	102	353	363

¹ Excludes private household workers.

² Pay status not available separately for bad weather and industrial dispute; these categories are included in all other reasons.

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

Hours of work	July 1983					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	91,750	3,984	87,767	100.0	100.0	100.0
1 to 34 hours	21,998	1,217	20,782	24.0	30.5	23.7
1 to 4 hours	792	59	733	.9	1.5	.8
5 to 14 hours	3,544	312	3,233	3.9	7.8	3.7
15 to 29 hours	11,122	565	10,557	12.1	14.2	12.0
30 to 34 hours	6,540	281	6,259	7.1	7.1	7.1
35 hours and over	89,753	2,787	86,965	76.0	69.5	76.3
35 to 39 hours	6,847	142	6,505	7.2	3.6	7.4
40 hours	39,606	602	39,004	43.2	15.1	44.4
41 hours and over	23,500	2,023	21,476	25.6	50.8	24.5
41 to 48 hours	8,503	237	8,265	9.3	5.9	9.4
49 to 59 hours	8,125	532	7,593	8.9	13.4	8.7
60 hours and over	6,872	1,254	5,618	7.5	31.5	6.4
Average hours, total at work	39.0	45.8	38.7	-	-	-
Average hours, workers on full-time schedules	43.3	55.4	42.9	-	-	-

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

(Numbers in thousands)

Reason for working less than 35 hours	July 1983					
	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	21,998	6,257	15,741	20,782	5,980	14,801
Economic reasons	7,086	1,863	5,223	6,686	1,773	4,913
Slack work	2,771	1,462	1,309	2,598	1,387	1,211
Material shortages or repairs to plant and equipment	75	75	-	75	75	-
New job started during week	214	214	-	204	204	-
Job terminated during week	111	111	-	106	106	-
Could find only part-time work	3,915	-	3,915	3,702	-	3,702
Other reasons	14,913	4,395	10,518	14,097	4,208	9,889
Does not want, or unavailable for, full-time work	6,165	-	8,165	7,725	-	7,725
Vacation	1,755	1,755	-	1,710	1,710	-
Illness	1,165	995	170	1,109	966	143
Bad weather	249	249	-	197	197	-
Industrial dispute	15	15	-	15	15	-
Legal or religious holiday	64	64	-	64	64	-
Full time for this job	1,634	-	1,634	1,576	-	1,576
All other reasons	1,866	1,317	549	1,700	1,255	445
Average hours:						
Economic reasons	21.4	24.2	20.4	21.6	24.2	20.7
Other reasons	21.7	25.6	20.0	21.8	25.7	20.1
Worked 30 to 34 hours:						
Economic reasons	2,053	807	1,246	1,952	768	1,164
Other reasons	4,487	2,187	2,300	4,307	2,110	2,197

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-28. Persons at work in nonagricultural industries by class of worker and full- or part-time status

(Numbers in thousands)

Industry	July 1983								
	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	87,767	6,686	9,889	71,192	49,716	8,265	13,211	38.7	42.9
Wage and salary workers	80,317	5,991	8,511	65,815	47,248	7,748	10,819	38.5	42.4
Mining	785	24	11	750	157	101	215	46.0	47.1
Construction	5,213	508	209	4,496	3,258	408	830	39.6	42.4
Manufacturing	17,154	684	418	16,052	11,532	2,302	2,218	40.9	42.1
Durable goods	9,965	253	154	9,558	6,882	1,319	1,357	41.4	42.2
Nondurable goods	7,189	430	264	6,495	4,651	983	861	40.2	42.1
Transportation and public utilities	6,161	258	275	5,828	3,985	698	947	41.0	42.9
Wholesale and retail trade	18,071	2,269	3,159	12,643	8,314	1,761	2,568	38.6	43.0
Finance, insurance, and real estate	5,616	154	415	5,047	3,711	532	804	39.8	41.9
Service industries	22,871	1,987	3,817	17,087	12,812	1,580	2,675	38.3	41.9
Private households	1,312	381	527	404	274	45	85	23.8	44.7
All other industries	21,559	1,606	3,290	16,683	12,538	1,535	2,590	37.1	41.8
Public administration	4,446	107	207	4,132	3,201	368	563	40.6	42.1
Self-employed workers	7,094	680	1,217	5,197	2,364	501	2,332	40.5	48.8
Unpaid family workers	355	18	160	177	101	17	59	35.5	47.1

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	July 1983							
	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								
Total, 16 years and over	87,767	6,686	9,889	71,192	49,716	21,476	38.7	42.9
16 to 19 years	7,178	1,809	2,026	3,343	2,646	697	29.8	40.7
16 to 17 years	2,786	797	1,108	861	719	162	25.7	40.0
18 to 19 years	4,392	1,012	918	2,462	1,927	535	32.5	41.0
20 years and over	80,589	4,876	7,863	67,850	47,071	20,779	39.5	43.0
20 to 24 years	13,153	1,397	1,421	10,335	7,668	2,667	37.7	41.9
25 years and over	67,435	3,480	6,443	57,512	39,401	18,111	39.8	43.2
25 to 44 years	43,124	2,308	3,301	37,515	25,401	12,114	40.3	43.2
45 to 64 years	22,040	1,057	2,070	18,913	13,226	5,687	39.8	43.0
65 years and over	2,271	114	1,071	1,086	774	312	29.6	43.2
Men, 16 years and over	50,434	3,263	2,895	44,276	28,072	16,204	41.3	44.2
16 to 19 years	3,703	918	918	1,867	1,421	446	30.9	41.1
16 to 17 years	1,464	428	538	498	396	102	26.1	(¹)
18 to 19 years	2,239	489	381	1,369	1,025	344	33.9	41.4
20 years and over	46,731	2,345	1,977	42,409	26,651	15,758	42.2	44.3
20 to 24 years	7,003	694	523	5,786	3,985	1,801	39.4	43.0
25 years and over	39,729	1,650	1,453	36,626	22,669	13,957	42.8	44.5
25 to 44 years	25,153	1,090	471	23,592	14,291	9,301	43.3	44.7
45 to 64 years	13,207	512	389	12,308	7,877	4,429	42.5	44.2
65 years and over	1,368	50	594	724	497	227	31.0	43.8
Women, 16 years and over	37,333	3,423	6,994	26,916	21,643	5,273	35.1	40.7
16 to 19 years	3,475	891	1,108	1,478	1,225	251	28.8	40.2
16 to 17 years	1,322	369	571	382	322	60	25.2	39.7
18 to 19 years	2,154	523	537	1,094	903	191	30.9	40.4
20 years and over	33,857	2,531	5,886	25,440	20,418	5,022	35.7	40.7
20 to 24 years	6,150	704	897	4,549	3,685	864	35.7	40.5
25 years and over	27,707	1,827	4,989	20,891	16,734	4,157	35.7	40.7
25 to 44 years	17,970	1,221	2,831	13,918	11,106	2,812	36.2	40.7
45 to 64 years	8,634	543	1,681	6,610	5,352	1,258	35.7	40.7
65 years and over	903	64	476	363	277	86	27.6	42.0
RACE								
White, 16 years and over	77,154	5,487	8,967	62,700	42,778	19,922	38.9	43.1
Men	44,821	2,857	2,580	39,564	24,480	15,104	41.6	44.4
Women	32,333	2,830	6,386	23,117	18,300	4,817	35.0	40.8
Black, 16 years and over	8,325	1,029	689	6,607	5,516	1,091	36.8	40.9
Men	4,336	512	246	3,578	2,818	760	38.3	41.9
Women	3,989	517	443	3,029	2,699	330	35.3	39.6
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	32,580	1,152	1,012	30,396	18,557	11,839	43.0	44.6
Widowed, divorced, or separated	4,468	308	227	3,933	2,431	1,502	41.9	44.8
Single (never married)	13,405	1,803	1,856	9,948	7,083	2,863	37.1	42.6
Women, 16 years and over:								
Married, spouse present	19,193	1,284	4,195	13,714	11,111	2,603	34.7	40.5
Widowed, divorced, or separated	7,226	578	830	5,618	4,522	1,296	37.2	41.2
Single (never married)	10,913	1,560	1,968	7,365	6,012	1,373	34.3	40.6

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Occupation and sex	July 1983								
	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	87,173	6,500	9,783	70,890	49,425	8,246	13,220	38.7	42.9
Managerial and professional specialty	19,276	557	1,625	17,094	10,526	1,990	4,579	41.6	44.4
Executive, administrative, and managerial	9,813	170	449	9,194	5,306	1,133	2,755	43.9	45.5
Professional specialty	9,463	387	1,176	7,900	5,219	857	1,824	39.2	43.2
Technical, sales, and administrative support	29,009	1,703	4,072	23,234	17,057	2,485	3,692	37.8	42.0
Technicians and related support	2,885	69	260	2,556	1,928	294	335	39.5	41.8
Sales occupations	11,196	974	1,899	8,323	4,751	1,112	2,461	38.7	44.8
Administrative support, including clerical	14,928	660	1,913	12,355	10,379	1,080	896	36.9	40.2
Service occupations	12,766	2,035	2,866	7,864	5,982	763	1,119	33.8	42.1
Private household	930	233	402	295	198	37	60	24.3	43.7
Protective service	1,575	65	80	1,430	885	200	344	43.2	45.4
Service, except private household and protective	10,260	1,738	2,384	6,139	4,898	526	715	33.2	41.3
Precision production, craft, and repair	11,563	759	368	10,436	7,076	1,407	1,953	41.0	43.1
Operators, fabricators, and laborers	14,559	1,446	852	12,261	8,784	1,600	1,877	39.4	42.5
Machine operators, assemblers, and inspectors	6,615	500	245	5,870	4,468	798	605	39.5	41.5
Transportation and material moving occupations	3,781	295	158	3,328	1,968	479	881	42.3	45.1
Handlers, equipment cleaners, helpers, and laborers	4,164	651	449	3,063	2,349	324	391	38.5	41.5
Men, 16 years and over	48,809	3,098	2,773	43,938	27,753	5,562	10,622	41.5	44.2
Managerial and professional specialty	12,317	283	564	11,469	6,414	1,319	3,735	43.9	45.7
Executive, administrative, and managerial	6,699	105	222	6,373	3,382	766	2,245	45.2	46.5
Professional specialty	5,617	179	342	5,096	3,053	554	1,490	42.3	44.7
Technical, sales, and administrative support	10,541	410	683	9,468	5,547	1,273	2,647	42.4	44.9
Technicians and related support	1,472	21	54	1,396	988	165	244	41.7	42.8
Sales occupations	6,030	261	415	5,355	2,548	763	2,044	44.0	46.9
Administrative support, including clerical	3,039	128	194	2,716	2,012	346	359	39.8	42.0
Service occupations	5,241	679	723	3,839	2,774	417	648	37.2	43.0
Private household	29	6	6	17	13	3	1	(¹)	(¹)
Protective service	1,356	51	48	1,259	788	174	316	44.0	45.8
Service, except private household and protective	3,856	622	672	2,563	1,992	240	330	34.8	41.7
Precision production, craft, and repair	10,675	683	273	9,719	6,515	1,306	1,898	41.3	43.3
Operators, fabricators, and laborers	11,036	1,043	549	9,443	6,503	1,246	1,694	40.1	43.1
Machine operators, assemblers, and inspectors	3,936	211	77	3,647	2,651	517	479	40.9	42.2
Transportation and material moving occupations	3,593	272	120	3,201	1,877	463	861	42.6	45.2
Handlers, equipment cleaners, helpers, and laborers	3,507	560	353	2,595	1,974	267	354	36.7	41.8
Women, 16 years and over	37,364	3,402	7,010	26,952	21,672	2,683	2,597	35.1	40.7
Managerial and professional specialty	6,960	273	1,061	5,626	4,111	670	844	37.5	41.7
Executive, administrative, and managerial	3,114	65	227	2,822	1,945	367	510	41.0	43.1
Professional specialty	3,846	208	834	2,804	2,166	303	334	34.6	40.4
Technical, sales, and administrative support	18,489	1,293	3,409	13,766	11,510	1,212	1,045	35.2	40.1
Technicians and related support	1,414	48	206	1,160	940	129	91	37.2	40.8
Sales occupations	5,165	713	1,485	2,968	2,203	349	416	32.7	41.1
Administrative support, including clerical	11,889	532	1,719	9,639	8,367	734	537	36.1	39.7
Service occupations	7,525	1,357	2,143	4,025	3,208	348	472	31.4	41.3
Private household	902	227	396	278	185	34	59	24.1	43.8
Protective service	219	13	35	171	117	26	28	38.2	43.0
Service, except private household and protective	6,405	1,116	1,712	3,576	2,906	266	385	32.2	41.0
Precision production, craft, and repair	868	78	95	717	561	101	54	37.1	41.0
Operators, fabricators, and laborers	3,524	403	303	2,818	2,282	354	182	37.0	40.4
Machine operators, assemblers, and inspectors	2,679	288	168	2,222	1,816	281	126	37.5	40.3
Transportation and material moving occupations	188	23	38	127	91	16	20	35.4	42.6
Handlers, equipment cleaners, helpers, and laborers	657	91	97	468	374	57	37	35.6	40.4

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-31. Employment status of the noninstitutional population, including Armed forces stationed in the United States, by sex, seasonally adjusted

(Numbers in thousands)

Employment status and sex	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
TOTAL													
Noninstitutional population ¹	174,038	174,200	174,360	174,549	174,718	174,864	175,021	175,169	175,320	175,465	175,622	175,793	175,970
Labor force ¹	112,090	112,303	112,528	112,420	112,702	112,794	112,215	112,217	112,148	112,457	112,418	113,600	113,539
Percent of population ²	64.4	64.5	64.5	64.4	64.5	64.5	64.1	64.1	64.0	64.1	64.0	64.6	64.5
Total employed ¹	101,262	101,372	101,213	100,844	100,796	100,758	100,770	100,727	100,767	101,129	101,226	102,454	102,949
Employment-population ratio ³	58.2	58.2	58.0	57.8	57.7	57.6	57.6	57.5	57.5	57.6	57.6	58.3	58.5
Resident Armed Forces	1,674	1,689	1,670	1,668	1,660	1,665	1,667	1,664	1,664	1,671	1,669	1,668	1,664
Civilian employed	99,588	99,683	99,543	99,176	99,136	99,093	99,103	99,063	99,103	99,458	99,557	100,786	101,285
Agriculture	3,445	3,429	3,363	3,413	3,466	3,411	3,412	3,393	3,375	3,371	3,367	3,522	3,527
Nonagricultural industries	96,143	96,254	96,180	95,763	95,670	95,682	95,691	95,670	95,729	96,088	96,190	97,264	97,758
Unemployed	10,828	10,931	11,315	11,576	11,906	12,036	11,446	11,490	11,381	11,328	11,192	11,146	10,590
Unemployment rate ⁴	9.7	9.7	10.1	10.3	10.6	10.7	10.2	10.2	10.1	10.1	10.0	9.8	9.3
Not in labor force	61,948	61,897	61,832	62,129	62,016	62,070	62,806	62,952	63,172	63,008	63,204	62,193	62,431
Men													
Noninstitutional population ¹	83,097	83,173	83,231	83,323	83,402	83,581	83,652	83,720	83,789	83,856	83,931	84,014	84,099
Labor force ¹	63,898	64,055	64,301	64,300	64,414	64,384	63,916	63,996	63,957	64,207	64,276	64,816	64,864
Percent of population ²	76.9	77.0	77.3	77.2	77.2	77.0	76.4	76.4	76.3	76.6	78.6	77.1	77.1
Total employed ¹	57,664	57,710	57,598	57,456	57,408	57,338	57,283	57,234	57,300	57,476	57,656	58,484	58,625
Employment-population ratio ³	69.4	69.4	69.2	69.0	68.8	68.6	68.5	68.4	68.4	68.5	68.7	69.6	69.7
Resident Armed Forces	1,537	1,551	1,526	1,524	1,516	1,529	1,531	1,528	1,528	1,530	1,528	1,525	1,521
Civilian employed	56,127	56,159	56,072	55,932	55,892	55,809	55,752	55,706	55,772	55,946	56,128	56,939	57,104
Unemployed	6,234	6,345	6,703	6,844	7,006	7,046	6,633	6,633	6,657	6,657	6,620	6,351	6,238
Unemployment rate ⁴	9.8	9.9	10.4	10.6	10.9	10.9	10.4	10.6	10.4	10.5	10.3	9.8	9.6
Not in labor force	19,199	19,118	18,930	19,023	18,988	19,197	19,736	19,724	19,832	19,649	19,855	19,198	19,235
Women													
Noninstitutional population ¹	90,941	91,027	91,129	91,226	91,316	91,283	91,369	91,449	91,532	91,609	91,691	91,779	91,871
Labor force ¹	48,192	48,248	48,227	48,120	48,288	48,410	48,299	48,220	48,191	48,251	48,142	48,784	48,675
Percent of population ²	53.0	53.0	52.9	52.7	52.9	53.0	52.9	52.7	52.6	52.7	52.5	53.2	53.0
Total employed ¹	43,598	43,662	43,615	43,388	43,388	43,420	43,486	43,493	43,467	43,653	43,569	43,990	44,324
Employment-population ratio ³	47.9	48.0	47.9	47.6	47.5	47.6	47.6	47.6	47.5	47.7	47.5	47.9	48.2
Resident Armed Forces	137	138	144	144	144	136	136	136	136	141	141	143	143
Civilian employed	43,461	43,524	43,471	43,244	43,244	43,284	43,350	43,357	43,331	43,512	43,428	43,847	44,181
Unemployed	4,594	4,586	4,612	4,732	4,900	4,990	4,813	4,727	4,724	4,597	4,572	4,795	4,351
Unemployment rate ⁴	9.5	9.5	9.6	9.8	10.1	10.3	10.0	9.8	9.8	9.5	9.5	9.8	8.9
Not in labor force	42,749	42,779	42,902	43,106	43,028	42,873	43,070	43,229	43,341	43,358	43,549	42,995	43,196

¹ Includes members of the Armed Forces stationed in the United States.

² Labor force as a percent of the noninstitutional population.

³ Total employment as a percent of the noninstitutional population.

⁴ Unemployment as a percent of the labor force (including the resident

Armed Forces).

NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-31 through A-40 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-32. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted

(Numbers in thousands)

Employment status, sex, and age	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
TOTAL													
Civilian noninstitutional population ¹	172,364	172,511	172,690	172,881	173,058	173,199	173,354	173,505	173,656	173,794	173,953	174,125	174,306
Civilian labor force	110,416	110,614	110,858	110,752	111,042	111,129	110,548	110,553	110,484	110,786	110,749	111,932	111,875
Percent of population	64.1	64.1	64.2	64.1	64.2	64.2	63.8	63.7	63.6	63.7	63.7	64.3	64.2
Employed	99,588	99,683	99,543	99,176	99,136	99,093	99,103	99,063	99,103	99,458	99,557	100,786	101,285
Employment-population ratio ²	57.8	57.8	57.6	57.4	57.3	57.2	57.2	57.1	57.1	57.2	57.2	57.9	58.1
Unemployed	10,828	10,931	11,315	11,576	11,906	12,036	11,446	11,490	11,381	11,328	11,192	11,146	10,590
Unemployment rate	9.8	9.9	10.2	10.5	10.7	10.8	10.4	10.4	10.3	10.2	10.1	10.0	9.5
Men, 20 years and over													
Civilian noninstitutional population ¹	73,685	73,774	73,867	73,984	74,094	74,236	74,339	74,434	74,528	74,611	74,712	74,814	74,927
Civilian labor force	58,055	58,064	58,354	58,363	58,454	58,443	58,048	58,177	58,170	58,454	58,506	58,804	59,016
Percent of population	78.8	78.7	79.0	78.9	78.9	78.7	78.1	78.2	78.1	78.3	78.3	78.6	78.8
Employed	52,905	52,832	52,776	52,649	52,589	52,534	52,452	52,428	52,589	52,752	52,901	53,516	53,808
Employment-population ratio ²	71.8	71.6	71.4	71.2	71.0	70.8	70.6	70.4	70.6	70.7	70.8	71.5	71.8
Agriculture	2,462	2,433	2,436	2,444	2,434	2,389	2,426	2,374	2,420	2,404	2,443	2,529	2,544
Nonagricultural industries	50,443	50,399	50,340	50,205	50,155	50,145	50,025	50,054	50,169	50,348	50,458	50,987	51,264
Unemployed	5,150	5,232	5,578	5,714	5,865	5,909	5,597	5,749	5,581	5,702	5,605	5,288	5,208
Unemployment rate	8.9	9.0	9.6	9.8	10.0	10.1	9.6	9.9	9.6	9.8	9.6	9.0	8.8
Not in labor force	15,630	15,710	15,513	15,621	15,640	15,793	16,291	16,257	16,358	16,157	16,206	16,010	15,911
Women, 20 years and over													
Civilian noninstitutional population ¹	82,926	83,035	83,152	83,271	83,385	83,383	83,490	83,593	83,699	83,794	83,899	84,008	84,122
Civilian labor force	43,983	44,039	43,996	43,936	44,112	44,286	44,201	44,216	44,166	44,238	44,228	44,648	44,685
Percent of population	53.0	53.0	52.9	52.8	52.9	53.1	52.9	52.9	52.8	52.8	52.7	53.1	53.1
Employed	40,311	40,368	40,286	40,112	40,123	40,215	40,238	40,291	40,277	40,509	40,484	40,789	41,164
Employment-population ratio ²	48.6	48.6	48.4	48.2	48.1	48.2	48.2	48.2	48.1	48.3	48.3	48.6	48.9
Agriculture	598	590	588	578	590	628	625	657	647	622	597	636	607
Nonagricultural industries	39,713	39,778	39,698	39,534	39,533	39,587	39,613	39,634	39,630	39,886	39,887	40,153	40,557
Unemployed	3,672	3,671	3,710	3,824	3,989	4,071	3,983	3,925	3,889	3,729	3,744	3,859	3,521
Unemployment rate	8.3	8.3	8.4	8.7	9.0	9.2	9.0	8.9	8.8	8.4	8.5	8.6	7.9
Not in labor force	38,943	38,996	39,156	39,335	39,273	39,097	39,289	39,377	39,533	39,556	39,671	39,360	39,437
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	15,753	15,702	15,671	15,625	15,579	15,580	15,525	15,478	15,429	15,389	15,342	15,303	15,257
Civilian labor force	8,378	8,511	8,508	8,453	8,476	8,400	8,299	8,160	8,148	8,094	8,015	8,480	8,173
Percent of population	53.2	54.2	54.3	54.1	54.4	53.9	53.5	52.7	52.8	52.6	52.2	55.4	53.6
Employed	6,372	6,483	6,481	6,415	6,424	6,344	6,413	6,345	6,237	6,197	6,172	6,481	6,313
Employment-population ratio ²	40.4	41.3	41.4	41.1	41.2	40.7	41.3	41.0	40.4	40.3	40.2	42.4	41.4
Agriculture	385	406	339	391	442	394	361	362	308	344	327	357	376
Nonagricultural industries	5,987	6,077	6,142	6,024	5,982	5,950	6,052	5,983	5,929	5,853	5,845	6,124	5,937
Unemployed	2,006	2,028	2,027	2,038	2,052	2,056	1,886	1,815	1,911	1,897	1,843	1,999	1,860
Unemployment rate	23.9	23.8	23.8	24.1	24.2	24.5	22.7	22.2	23.5	23.4	23.0	23.6	22.8
Not in labor force	7,375	7,191	7,163	7,172	7,103	7,180	7,226	7,318	7,281	7,295	7,327	6,823	7,064

¹ The population figures are not adjusted for seasonal variation.

population.

² Civilian employment as a percent of the civilian noninstitutional

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
WHITE													
Civilian noninstitutional population ¹	149,569	149,536	149,652	149,838	149,887	150,056	150,129	150,187	150,382	150,518	150,671	150,810	150,959
Civilian labor force	96,385	96,375	96,640	96,453	96,719	96,864	96,176	95,987	95,996	96,287	96,362	97,250	97,341
Percent of population	64.4	64.4	64.8	64.4	64.5	64.6	64.1	63.9	63.8	64.0	64.0	64.5	64.5
Employed	88,021	87,979	87,872	87,477	87,435	87,443	87,466	87,194	87,324	87,709	87,777	88,880	89,382
Employment-population ratio ²	58.8	58.8	58.7	58.4	58.3	58.3	58.3	58.1	58.1	58.3	58.3	58.9	59.2
Unemployed	8,364	8,398	8,768	8,976	9,284	9,421	8,711	8,793	8,672	8,577	8,585	8,370	7,959
Unemployment rate	8.7	8.7	9.1	9.3	9.6	9.7	9.1	9.2	9.0	8.9	8.9	8.6	8.2
Men, 20 years and over													
Civilian labor force	51,252	51,260	51,517	51,499	51,531	51,562	51,033	51,151	51,214	51,459	51,589	51,771	51,919
Percent of population	79.2	79.1	79.5	79.4	79.4	79.3	78.4	78.5	78.4	78.7	78.7	78.9	79.0
Employed	47,194	47,142	47,100	46,987	46,837	46,823	46,752	46,682	46,883	47,049	47,150	47,710	47,935
Employment-population ratio ²	72.9	72.8	72.7	72.4	72.1	72.0	71.8	71.6	71.8	71.9	72.0	72.7	73.0
Unemployed	4,058	4,118	4,417	4,512	4,694	4,739	4,281	4,469	4,332	4,409	4,440	4,060	3,984
Unemployment rate	7.9	8.0	8.6	8.8	9.1	9.2	8.4	8.7	8.5	8.6	8.6	7.8	7.7
Women, 20 years and over													
Civilian labor force	37,750	37,658	37,676	37,532	37,762	37,934	37,794	37,588	37,509	37,683	37,703	38,124	38,242
Percent of population	52.6	52.5	52.4	52.1	52.4	52.6	52.4	52.1	51.9	52.1	52.0	52.6	52.6
Employed	34,986	34,929	34,865	34,663	34,749	34,847	34,834	34,695	34,723	34,972	34,961	35,287	35,668
Employment-population ratio ²	48.8	48.7	48.5	48.1	48.2	48.3	48.3	48.1	48.0	48.3	48.3	48.6	49.1
Unemployed	2,764	2,729	2,811	2,869	3,013	3,087	2,960	2,893	2,787	2,711	2,742	2,837	2,574
Unemployment rate	7.3	7.2	7.5	7.6	8.0	8.1	7.8	7.7	7.4	7.2	7.3	7.4	6.7
Both sexes, 16 to 19 years													
Civilian labor force	7,383	7,457	7,447	7,422	7,426	7,368	7,349	7,248	7,273	7,145	7,069	7,355	7,180
Percent of population	56.5	57.3	57.4	57.3	57.5	57.1	57.1	56.5	56.9	56.0	55.7	58.2	57.1
Employed	5,841	5,908	5,907	5,827	5,849	5,773	5,880	5,817	5,719	5,688	5,666	5,883	5,779
Employment-population ratio ²	44.7	45.4	45.5	45.0	45.3	44.8	45.7	45.4	44.8	44.6	44.6	46.5	45.9
Unemployed	1,542	1,549	1,540	1,595	1,577	1,595	1,469	1,431	1,554	1,457	1,403	1,472	1,401
Unemployment rate	20.9	20.8	20.7	21.5	21.2	21.6	20.0	19.7	21.4	20.4	19.8	20.0	19.5
Men	22.5	22.5	22.2	23.0	22.6	22.8	21.2	21.1	22.9	21.7	20.2	19.8	20.4
Women	19.1	18.9	19.1	19.9	19.8	20.4	18.7	18.2	19.7	19.0	19.4	20.2	18.5
BLACK													
Civilian noninstitutional population ¹	18,600	18,626	18,659	18,692	18,723	18,740	18,768	18,796	18,823	18,851	18,880	18,911	18,942
Civilian labor force	11,341	11,400	11,443	11,398	11,475	11,522	11,542	11,548	11,554	11,631	11,672	11,783	11,764
Percent of population	61.0	61.2	61.3	61.0	61.3	61.5	61.5	61.4	61.4	61.7	61.8	62.3	62.1
Employed	9,211	9,220	9,172	9,102	9,159	9,127	9,142	9,276	9,253	9,209	9,270	9,352	9,469
Employment-population ratio ²	49.5	49.5	49.2	48.7	48.9	48.7	49.4	49.2	48.8	48.8	49.1	49.5	50.0
Unemployed	2,130	2,180	2,271	2,296	2,316	2,395	2,400	2,271	2,302	2,423	2,402	2,432	2,295
Unemployment rate	18.8	19.1	19.8	20.1	20.2	20.8	20.8	19.7	19.9	20.8	20.6	20.6	19.5
Men, 20 years and over													
Civilian labor force	5,377	5,366	5,398	5,390	5,488	5,483	5,459	5,441	5,439	5,540	5,512	5,597	5,611
Percent of population	74.6	74.5	74.7	74.4	75.6	75.6	75.1	74.7	74.5	75.7	75.1	76.1	76.1
Employed	4,444	4,419	4,360	4,331	4,437	4,358	4,385	4,423	4,416	4,415	4,418	4,522	4,564
Employment-population ratio ²	61.8	61.3	60.4	59.8	61.1	60.1	60.3	60.7	60.5	60.3	60.2	61.5	61.9
Unemployed	933	947	1,038	1,059	1,051	1,125	1,075	1,018	1,023	1,125	1,094	1,075	1,047
Unemployment rate	17.4	17.6	19.2	19.6	19.2	20.5	19.7	18.7	18.8	20.3	19.8	19.2	18.7
Women, 20 years and over													
Civilian labor force	5,159	5,183	5,187	5,169	5,157	5,207	5,295	5,353	5,350	5,265	5,348	5,283	5,328
Percent of population	56.3	56.5	56.4	56.1	55.9	56.5	57.3	57.8	57.7	56.6	57.4	56.6	57.0
Employed	4,359	4,386	4,371	4,332	4,305	4,349	4,329	4,441	4,404	4,372	4,431	4,384	4,477
Employment-population ratio ²	47.6	47.8	47.5	47.0	46.8	47.1	46.8	48.0	47.5	47.0	47.6	47.0	47.9
Unemployed	800	797	816	837	852	858	965	912	946	893	917	900	851
Unemployment rate	15.5	15.4	15.7	16.2	16.5	16.5	18.2	17.0	17.7	17.0	17.1	17.0	16.0

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-33. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted—Continued

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	805	851	858	839	830	832	788	754	765	827	812	903	825
Percent of population	35.8	37.9	38.3	37.5	37.2	36.8	35.0	33.5	34.1	37.0	36.4	40.5	37.1
Employed	408	415	441	439	417	420	428	412	432	422	421	446	428
Employment-population ratio ²	18.1	18.5	19.7	19.6	18.7	18.6	19.0	18.3	19.3	18.9	18.9	20.0	19.2
Unemployed	397	436	417	400	413	412	360	342	333	405	391	457	397
Unemployment rate	49.3	51.2	48.6	47.7	49.8	49.5	45.7	45.4	43.5	49.0	48.2	50.6	48.1
Men	48.9	50.5	51.0	49.2	53.0	52.5	45.9	45.3	44.5	48.0	53.1	51.1	47.6
Women	49.7	52.1	45.9	45.9	46.2	46.2	45.5	45.4	42.3	50.0	42.3	50.0	48.8
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	9,521	9,689	9,464	9,474	9,355	9,301	9,328	9,368	9,551	9,665	9,747	9,738	9,640
Civilian labor force	5,972	6,045	5,961	5,973	5,923	5,898	5,981	5,992	6,074	6,206	6,167	6,253	6,079
Percent of population	62.7	62.4	63.0	63.0	63.3	63.4	64.1	64.0	63.6	64.2	63.3	64.2	63.1
Employed	5,136	5,182	5,097	5,075	5,012	4,998	5,053	5,042	5,088	5,304	5,318	5,379	5,331
Employment-population ratio ²	107.9	106.6	107.7	107.1	107.2	107.5	108.3	107.6	106.5	109.8	109.1	110.5	110.6
Unemployed	836	883	864	898	911	900	929	950	986	902	849	874	748
Unemployment rate	14.0	14.6	14.5	15.0	15.4	15.3	15.5	15.8	16.2	14.5	13.8	14.0	12.3

¹ The population figures are not adjusted for seasonal variation.

² Civilian employment as a percent of the civilian noninstitutional population.

NOTE: Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

A-34. Employed civilians by selected social and economic categories, seasonally adjusted

(In thousands)

Category	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
CHARACTERISTIC													
Total	99,588	99,683	99,543	99,176	99,136	99,093	99,103	99,063	99,103	99,458	99,557	100,786	101,285
Married men, spouse present	38,177	38,121	37,998	37,852	37,641	37,507	37,450	37,428	37,452	37,523	37,560	37,925	38,293
Married women, spouse present	24,173	24,235	24,159	24,081	23,985	24,155	24,205	24,070	24,171	24,371	24,229	24,335	24,640
Women who maintain families	5,200	5,208	5,118	5,107	5,025	4,985	5,038	5,050	5,097	4,944	4,942	5,016	5,088
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,523	1,548	1,537	1,576	1,584	1,547	1,637	1,624	1,515	1,560	1,595	1,636	1,663
Self-employed workers	1,655	1,620	1,569	1,621	1,628	1,627	1,587	1,541	1,585	1,607	1,558	1,608	1,583
Unpaid family workers	254	255	254	229	241	224	231	223	260	208	229	263	259
Nonagricultural industries:													
Wage and salary workers	88,491	88,576	88,562	88,064	87,936	87,976	87,813	87,794	87,912	88,187	88,395	89,354	89,765
Government	15,471	15,562	15,681	15,436	15,514	15,477	15,386	15,501	15,452	15,518	15,523	15,498	15,615
Private industries	73,020	73,014	72,881	72,628	72,422	72,499	72,427	72,293	72,459	72,668	72,872	73,856	74,150
Private households	1,200	1,227	1,220	1,216	1,221	1,163	1,162	1,232	1,235	1,205	1,228	1,317	1,286
Other industries	71,820	71,787	71,661	71,412	71,201	71,336	71,265	71,061	71,225	71,463	71,644	72,539	72,864
Self-employed workers	7,286	7,338	7,422	7,332	7,349	7,335	7,465	7,385	7,453	7,528	7,408	7,493	7,598
Unpaid family workers	393	408	378	403	382	383	380	353	342	353	335	345	320
PERSONS AT WORK¹													
Nonagricultural industries	90,414	90,486	90,864	90,232	90,238	90,219	90,903	90,207	90,271	92,267	90,941	90,539	92,253
Full-time schedules	72,288	72,045	71,723	71,394	71,442	71,499	71,786	71,564	71,878	73,594	72,975	72,978	74,004
Part time for economic reasons	5,577	5,820	6,495	6,403	6,411	6,425	6,845	6,481	6,202	6,082	5,928	5,729	5,636
Usually work full time	2,047	2,100	2,519	2,381	2,228	2,153	2,200	2,097	1,927	1,871	1,685	1,702	1,809
Usually work part time	3,530	3,720	3,976	4,022	4,183	4,272	4,645	4,384	4,275	4,211	4,243	4,027	3,826
Part time for noneconomic reasons	12,549	12,621	12,666	12,435	12,385	12,295	12,271	12,162	12,191	12,592	12,038	11,833	12,614

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
SEASONALLY ADJUSTED**

A-35. Employed civilians by sex and age, seasonally adjusted

(In thousands)

Sex and age	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	99,588	99,883	99,543	99,176	99,138	99,093	99,103	99,063	99,103	99,458	99,557	100,786	101,285
16 to 24 years	20,073	20,123	20,065	19,919	19,934	19,903	19,887	19,863	19,732	19,729	19,623	20,328	20,231
16 to 19 years	6,372	6,483	6,481	6,415	6,424	6,344	6,413	6,345	6,237	6,197	6,172	6,481	6,313
16 to 17 years	2,364	2,422	2,432	2,415	2,426	2,364	2,438	2,362	2,307	2,279	2,272	2,303	2,282
18 to 19 years	4,016	4,043	4,065	3,988	3,984	3,982	3,982	3,992	3,952	3,929	3,913	4,152	4,070
20 to 24 years	13,701	13,640	13,584	13,504	13,510	13,559	13,474	13,518	13,494	13,532	13,451	13,847	13,917
25 years and over	79,596	79,646	79,468	79,251	79,182	79,165	79,240	79,165	79,386	79,679	79,848	80,533	81,101
25 to 54 years	65,216	65,365	64,962	64,949	64,858	64,890	65,005	64,902	65,184	65,582	65,807	66,404	66,831
55 years and over	14,367	14,302	14,561	14,289	14,315	14,272	14,233	14,179	14,138	14,067	14,094	14,127	14,229
Men, 16 years and over	56,127	56,159	56,072	55,932	55,892	55,809	55,752	55,706	55,772	55,946	56,128	56,939	57,104
16 to 24 years	10,434	10,498	10,401	10,408	10,388	10,357	10,368	10,327	10,229	10,270	10,283	10,615	10,819
16 to 19 years	3,222	3,327	3,296	3,283	3,303	3,275	3,301	3,279	3,183	3,184	3,228	3,423	3,297
16 to 17 years	1,191	1,252	1,229	1,229	1,258	1,233	1,295	1,260	1,212	1,158	1,188	1,218	1,189
18 to 19 years	2,040	2,064	2,085	2,052	2,027	2,038	2,009	2,037	1,990	2,045	2,051	2,179	2,113
20 to 24 years	7,212	7,171	7,105	7,125	7,085	7,082	7,067	7,048	7,046	7,076	7,056	7,392	7,322
25 years and over	45,722	45,685	45,672	45,522	45,496	45,430	45,393	45,372	45,552	45,654	45,770	46,206	46,474
25 to 54 years	37,152	37,205	37,044	37,019	36,988	36,947	36,968	36,913	37,135	37,276	37,477	37,780	37,947
55 years and over	8,565	8,473	8,644	8,485	8,508	8,471	8,446	8,415	8,400	8,378	8,345	8,438	8,489
Women, 16 years and over	43,461	43,524	43,471	43,244	43,244	43,284	43,350	43,357	43,331	43,512	43,428	43,847	44,181
16 to 24 years	9,639	9,625	9,664	9,511	9,546	9,546	9,519	9,536	9,503	9,459	9,340	9,512	9,612
16 to 19 years	3,150	3,156	3,185	3,132	3,121	3,069	3,112	3,066	3,054	3,004	2,944	3,058	3,017
16 to 17 years	1,173	1,170	1,203	1,186	1,168	1,131	1,143	1,102	1,095	1,121	1,064	1,065	1,073
18 to 19 years	1,976	1,979	1,980	1,936	1,957	1,944	1,973	1,955	1,962	1,884	1,862	1,973	1,957
20 to 24 years	6,489	6,469	6,479	6,379	6,425	6,477	6,407	6,470	6,448	6,455	6,395	6,455	6,595
25 years and over	33,874	33,961	33,796	33,729	33,686	33,735	33,847	33,792	33,834	34,025	34,076	34,328	34,627
25 to 54 years	28,064	28,160	27,938	27,930	27,870	27,943	28,037	27,989	28,049	28,304	28,330	28,624	28,884
55 years and over	5,802	5,829	5,917	5,804	5,807	5,801	5,787	5,784	5,738	5,689	5,749	5,691	5,740

A-36. Unemployed persons by sex and age, seasonally adjusted

(In thousands)

Sex and age	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	10,828	10,931	11,315	11,576	11,906	12,036	11,446	11,490	11,381	11,326	11,192	11,146	10,590
16 to 24 years	4,370	4,484	4,490	4,577	4,685	4,642	4,462	4,444	4,375	4,353	4,332	4,332	4,087
16 to 19 years	2,006	2,028	2,027	2,038	2,052	2,056	1,866	1,815	1,911	1,897	1,843	1,999	1,860
16 to 17 years	824	840	878	851	866	893	774	721	774	812	805	799	768
18 to 19 years	1,175	1,173	1,145	1,184	1,174	1,169	1,104	1,091	1,162	1,095	1,047	1,200	1,088
20 to 24 years	2,364	2,456	2,463	2,539	2,633	2,566	2,576	2,629	2,484	2,456	2,489	2,333	2,227
25 years and over	6,436	6,413	6,824	6,997	7,194	7,402	7,000	7,054	7,029	6,954	6,689	6,683	6,479
25 to 54 years	5,648	5,673	6,090	6,176	6,330	6,512	6,208	6,194	6,206	6,079	6,134	6,016	5,688
55 years and over	799	761	800	837	862	880	812	802	803	832	795	634	803
Men, 16 years and over	6,234	6,345	6,703	6,844	7,006	7,046	6,633	6,762	6,657	6,731	6,620	6,351	6,238
16 to 24 years	2,474	2,544	2,608	2,633	2,697	2,670	2,548	2,544	2,479	2,478	2,523	2,444	2,398
16 to 19 years	1,084	1,113	1,125	1,130	1,141	1,137	1,036	1,013	1,076	1,029	1,015	1,063	1,030
16 to 17 years	457	473	502	498	493	503	419	389	425	429	449	414	480
18 to 19 years	622	631	622	628	642	642	617	622	656	604	577	646	568
20 to 24 years	1,390	1,431	1,483	1,503	1,556	1,533	1,512	1,531	1,403	1,449	1,508	1,381	1,368
25 years and over	3,731	3,802	4,098	4,213	4,292	4,388	4,078	4,230	4,199	4,237	4,102	3,918	3,808
25 to 54 years	3,293	3,334	3,657	3,696	3,750	3,819	3,541	3,678	3,652	3,646	3,599	3,443	3,325
55 years and over	442	490	500	545	560	570	519	507	520	562	515	483	481
Women, 16 years and over	4,594	4,586	4,612	4,732	4,900	4,990	4,813	4,727	4,724	4,597	4,572	4,795	4,351
16 to 24 years	1,896	1,940	1,882	1,944	1,988	1,972	1,914	1,900	1,896	1,874	1,809	1,888	1,689
16 to 19 years	922	915	902	908	911	919	850	802	835	868	828	936	830
16 to 17 years	367	367	376	353	373	390	355	332	349	383	356	385	308
18 to 19 years	553	542	523	556	532	527	487	469	506	491	470	554	520
20 to 24 years	974	1,025	980	1,036	1,077	1,053	1,064	1,098	1,061	1,006	981	952	859
25 years and over	2,705	2,611	2,726	2,784	2,902	3,014	2,922	2,824	2,830	2,717	2,787	2,945	2,671
25 to 54 years	2,355	2,339	2,433	2,480	2,580	2,693	2,667	2,516	2,554	2,434	2,536	2,572	2,363
55 years and over	357	291	300	292	302	310	293	294	283	270	280	351	322

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-37. Unemployment rates by sex and age, seasonally adjusted

(Civilian workers)

Sex and age	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	9.8	9.9	10.2	10.5	10.7	10.8	10.4	10.4	10.3	10.2	10.1	10.0	9.5
16 to 24 years	17.9	18.2	18.3	18.7	19.0	18.9	18.3	18.3	18.1	18.1	18.1	17.6	16.8
16 to 19 years	23.9	23.8	23.8	24.1	24.2	24.5	22.7	22.2	23.5	23.4	23.0	23.6	22.8
16 to 17 years	25.8	25.8	26.5	26.1	26.3	27.4	24.1	23.4	25.1	26.3	26.2	25.8	25.3
18 to 19 years	22.6	22.5	22.0	22.9	22.8	22.7	21.7	21.5	22.7	21.8	21.1	22.4	21.1
20 to 24 years	14.7	15.3	15.3	15.8	16.3	16.0	16.1	16.3	15.4	15.4	15.6	14.4	13.8
25 years and over	7.5	7.5	7.9	8.1	8.3	8.6	8.1	8.2	6.1	8.0	7.9	7.9	7.4
25 to 54 years	8.0	8.0	8.6	8.7	8.9	9.1	8.7	8.7	8.7	8.5	8.5	8.3	7.8
55 years and over	5.3	5.2	5.2	5.5	5.7	5.8	5.4	5.4	5.4	5.6	5.3	5.6	5.3
Men, 16 years and over	10.0	10.2	10.7	10.9	11.1	11.2	10.6	10.8	10.7	10.7	10.6	10.0	9.8
16 to 24 years	19.2	19.5	20.0	20.2	20.6	20.5	19.7	19.8	19.5	19.4	19.7	18.4	18.4
16 to 19 years	25.2	25.1	25.4	25.6	25.7	25.8	23.9	23.6	25.3	24.4	23.9	23.7	23.8
16 to 17 years	27.7	27.4	29.0	28.8	28.2	29.0	24.4	23.6	26.0	27.0	27.4	25.4	27.9
18 to 19 years	23.4	23.4	23.0	23.4	24.1	24.0	23.5	23.4	24.8	22.8	22.0	22.9	21.2
20 to 24 years	16.2	16.6	17.3	17.4	18.0	17.8	17.8	17.8	16.8	17.0	17.6	15.7	15.7
25 years and over	7.5	7.7	8.2	8.5	8.6	8.8	8.2	8.5	8.4	8.5	8.2	7.8	7.6
25 to 54 years	8.1	6.2	9.0	9.1	9.2	9.4	8.7	9.1	9.0	8.9	8.8	8.4	8.1
55 years and over	4.9	5.5	5.5	6.0	6.2	6.3	5.8	5.7	5.8	6.3	5.8	5.4	5.4
Women, 16 years and over	9.6	9.5	9.6	9.9	10.2	10.3	10.0	9.8	9.8	9.6	9.5	9.9	9.0
16 to 24 years	16.4	16.8	16.3	17.0	17.2	17.1	16.7	16.6	16.6	16.5	16.2	16.6	14.9
16 to 19 years	22.6	22.5	22.1	22.5	22.6	23.0	21.5	20.7	21.5	22.4	21.9	23.4	21.6
16 to 17 years	23.8	23.9	23.8	22.9	24.2	25.6	23.7	23.2	24.2	25.5	24.7	26.2	22.3
18 to 19 years	21.9	21.5	20.9	22.3	21.4	21.3	19.8	19.3	20.5	20.7	20.2	21.9	21.0
20 to 24 years	13.1	13.7	13.1	14.0	14.4	14.0	14.2	14.5	14.1	13.5	13.3	12.9	11.5
25 years and over	7.4	7.1	7.5	7.6	7.9	8.2	7.9	7.7	7.7	7.4	7.6	7.9	7.2
25 to 54 years	7.7	7.7	8.0	8.2	8.5	8.8	8.7	8.2	8.3	7.9	8.2	8.2	7.6
55 years and over	5.8	4.8	4.8	4.8	4.9	5.1	4.8	4.9	4.7	4.5	4.6	5.8	5.3

A-38. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
CHARACTERISTIC													
Total (all civilian workers)	9.8	9.9	10.2	10.5	10.7	10.8	10.4	10.4	10.3	10.2	10.1	10.0	9.5
Men, 20 years and over	8.9	9.0	9.6	9.8	10.0	10.1	9.6	9.9	9.6	9.8	9.6	9.0	8.8
Women, 20 years and over	8.3	8.3	8.4	8.7	9.0	9.2	9.0	8.9	8.8	8.4	8.5	8.8	7.9
Both sexes, 16 to 19 years	23.9	23.8	23.8	24.1	24.2	24.5	22.7	22.2	23.5	23.4	23.0	23.6	22.8
White	8.7	8.7	9.1	9.3	9.6	9.7	9.1	9.2	9.0	8.9	8.9	8.6	8.2
Black and other	17.4	17.7	18.1	18.4	18.5	18.8	19.0	18.0	18.5	18.8	18.6	18.9	17.9
Black	18.8	19.1	19.8	20.1	20.2	20.8	20.8	19.7	19.9	20.8	20.6	20.6	19.5
Hispanic origin	14.0	14.6	14.5	15.0	15.4	15.3	15.5	15.8	16.2	14.5	13.8	14.0	12.3
Married men, spouse present	6.6	6.8	7.2	7.5	7.6	7.8	7.1	7.2	7.1	7.1	7.0	6.6	6.1
Married women, spouse present	7.4	7.3	7.6	7.9	8.2	8.2	7.8	7.6	7.5	7.3	7.5	7.8	7.0
Women who maintain families	12.0	11.7	12.4	11.3	12.5	13.2	13.2	13.0	13.5	13.2	12.9	12.8	11.6
Full-time workers	9.6	9.7	10.2	10.5	10.6	10.8	10.3	10.4	10.3	10.2	9.9	9.7	9.4
Part-time workers	11.2	10.4	10.6	10.3	11.3	11.1	10.6	10.1	10.5	10.8	11.0	12.1	10.2
Unemployed 15 weeks and over ¹	3.2	3.3	3.5	3.8	4.1	4.3	4.2	4.2	4.2	3.9	4.1	4.1	3.9
Labor force time lost ²	10.7	10.9	11.7	12.0	12.4	12.7	11.7	12.0	11.8	11.4	11.5	10.8	10.4
INDUSTRY													
Nonagricultural private wage and salary workers	10.2	10.2	10.7	11.0	11.4	11.6	10.8	10.8	10.8	10.5	10.5	10.0	9.6
Mining	15.8	16.0	18.5	17.9	18.1	18.1	17.1	18.4	18.8	20.3	22.7	18.2	16.6
Construction	20.3	20.4	22.0	22.3	21.8	22.0	20.0	19.7	20.3	20.3	20.4	18.1	18.0
Manufacturing	12.1	12.4	13.6	14.1	14.8	14.8	13.0	13.3	12.8	12.4	12.3	11.5	10.5
Durable goods	12.8	13.3	14.9	16.0	17.0	17.1	14.7	14.7	14.1	13.5	13.5	12.2	11.2
Nondurable goods	11.0	11.0	11.8	11.2	11.4	11.4	10.5	11.4	11.1	10.8	10.5	10.4	9.6
Transportation and public utilities	6.6	7.1	7.3	7.9	8.3	8.0	7.8	8.0	7.8	7.7	7.0	7.8	7.0
Wholesale and retail trade	10.3	10.0	10.0	10.4	10.6	11.0	10.8	10.9	11.2	10.4	10.1	10.2	9.7
Finance and service industries	7.0	7.0	7.0	7.1	7.7	7.9	7.6	7.3	7.2	7.3	7.5	7.2	7.3
Agricultural wage and salary workers	14.1	14.2	13.5	13.3	15.6	16.5	16.0	16.4	16.3	17.2	17.0	17.0	14.2

¹ Unemployment as a percent of the civilian labor force.

² Aggregate hours lost by the unemployed and persons on part time

for economic reasons as a percent of potentially available labor force hours.

A-39. Unemployed persons by duration of unemployment, seasonally adjusted

(Numbers in thousands)

Weeks of unemployment	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
DURATION													
Less than 5 weeks	3,959	3,933	4,004	3,930	3,963	4,019	3,536	3,731	3,440	3,547	3,519	3,655	3,498
5 to 14 weeks	3,249	3,346	3,549	3,511	3,549	3,480	3,328	3,106	3,140	3,154	2,979	2,915	2,794
15 weeks and over	3,569	3,637	3,856	4,167	4,524	4,732	4,634	4,618	4,815	4,356	4,517	4,589	4,417
15 to 26 weeks	1,780	1,808	1,830	1,951	2,191	2,125	1,928	1,928	1,875	1,662	1,731	1,638	1,830
27 weeks and over	1,789	1,829	2,026	2,216	2,333	2,607	2,706	2,689	2,740	2,694	2,786	2,951	2,587
Average (mean) duration, in weeks	15.6	16.1	16.6	17.1	17.3	18.0	19.4	19.0	19.1	19.0	20.4	22.0	21.7
Median duration, in weeks	8.3	8.3	9.4	9.6	10.0	10.1	11.5	9.6	10.3	11.3	12.3	11.8	9.9
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	36.7	36.0	35.1	33.9	32.9	32.9	30.8	32.6	30.7	32.1	31.9	32.8	32.7
5 to 14 weeks	30.1	30.7	31.1	30.2	29.5	28.3	28.9	27.1	28.1	28.5	27.0	26.1	26.1
15 weeks and over	33.1	33.3	33.8	35.9	37.6	38.8	40.3	40.3	41.2	39.4	41.0	41.1	41.2
15 to 26 weeks	16.5	16.6	16.0	16.8	18.2	17.4	18.8	16.8	16.7	15.0	15.7	14.7	17.1
27 weeks and over	16.6	16.8	17.8	19.1	19.4	21.3	23.5	23.5	24.5	24.4	25.3	26.4	24.2

A-40. Unemployed persons by reason for unemployment, seasonally adjusted

(Numbers in thousands)

Reasons for unemployment	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
NUMBER OF UNEMPLOYED													
Job losers	6,323	6,446	6,979	7,325	7,369	7,295	6,704	6,809	6,823	6,750	6,786	6,513	6,193
On layoff	2,126	2,218	2,625	2,519	2,531	2,468	2,131	2,024	1,945	1,948	1,943	1,822	1,719
Other job losers	4,197	4,228	4,354	4,806	4,838	4,827	4,573	4,784	4,878	4,803	4,823	4,691	4,474
Job leavers	819	814	786	803	794	826	839	848	901	815	801	782	738
Reentrants	2,478	2,440	2,437	2,322	2,546	2,629	2,623	2,491	2,426	2,488	2,365	2,425	2,429
New entrants	1,230	1,304	1,303	1,296	1,244	1,288	1,174	1,161	1,155	1,245	1,251	1,440	1,225
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	58.3	58.6	60.7	62.4	61.6	60.6	59.1	60.2	60.4	59.7	60.5	58.4	58.5
On layoff	19.6	20.2	22.8	21.4	21.2	20.5	18.8	17.9	17.2	17.2	17.4	16.3	16.2
Other job losers	38.7	38.4	37.8	40.9	40.5	40.1	40.3	42.3	43.1	42.5	43.1	42.0	42.3
Job leavers	7.5	7.4	6.8	6.8	6.6	6.9	7.4	7.5	8.0	7.2	7.2	7.0	7.0
Reentrants	22.8	22.2	21.2	19.8	21.3	21.8	23.1	22.0	21.5	22.0	21.1	21.7	22.9
New entrants	11.3	11.9	11.3	11.0	10.4	10.7	10.4	10.3	10.2	11.0	11.2	12.9	11.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	5.7	5.8	6.3	6.6	6.6	6.6	6.1	6.2	6.2	6.1	6.1	5.8	5.5
Job leavers .....	.7	.7	.7	.7	.7	.7	.8	.8	.8	.7	.7	.7	.7
Reentrants	2.2	2.2	2.2	2.1	2.3	2.4	2.4	2.3	2.2	2.2	2.1	2.2	2.2
New entrants	1.1	1.2	1.2	1.2	1.1	1.2	1.1	1.1	1.0	1.1	1.1	1.3	1.1

ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

B-1. Employees on nonagricultural payrolls by industry division, 1932 to date

(In thousands)

Year and month	Total	Goods-producing				Service-producing									
		Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
								Total	Wholesale trade	Retail trade			Total	Federal	State and local
Annual averages															
1932.....	23,615	8,647	731	985	6,931	14,968	2,816	4,683	-	-	1,326	2,918	3,225	559	2,666
1933.....	23,699	8,965	744	824	7,397	14,734	2,672	4,755	-	-	1,280	2,861	3,166	565	2,601
1934.....	25,940	10,261	883	877	8,501	15,679	2,750	5,281	-	-	1,304	3,045	3,299	652	2,647
1935.....	27,039	10,893	897	927	9,069	16,146	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728
1936.....	29,068	11,933	946	1,160	9,827	17,135	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842
1937.....	31,011	12,936	1,015	1,127	10,794	18,075	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923
1938.....	29,194	11,401	891	1,070	9,440	17,793	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054
1939.....	30,603	12,297	854	1,165	10,278	18,306	2,936	6,426	1,762	4,664	1,447	3,502	3,995	905	3,090
1940.....	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206
1941.....	36,539	15,963	957	1,814	13,192	20,574	3,274	7,210	1,960	5,251	1,525	3,905	4,660	1,340	3,320
1942.....	40,106	18,470	992	2,198	15,280	21,636	3,460	7,118	1,906	5,212	1,509	4,066	5,483	2,213	3,270
1943.....	42,434	20,114	925	1,587	17,602	23,320	3,647	6,982	1,822	5,160	1,481	4,130	6,080	2,905	3,175
1944.....	41,864	19,328	892	1,108	17,328	22,536	3,829	7,058	1,845	5,214	1,461	4,145	6,043	2,928	3,116
1945.....	40,374	17,507	836	1,147	15,524	22,867	3,906	7,314	1,949	5,365	1,481	4,222	5,944	2,808	3,137
1946.....	41,652	17,248	862	1,683	14,703	24,404	4,061	8,376	2,291	6,084	1,675	4,697	5,595	2,504	3,341
1947.....	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,485	1,728	5,025	5,474	1,892	3,582
1948.....	44,866	18,774	994	2,198	15,582	26,092	4,189	9,272	2,605	6,667	1,800	5,181	5,650	1,863	3,787
1949.....	43,754	17,565	930	2,194	14,441	26,189	4,001	9,264	2,602	6,662	1,828	5,240	5,856	1,908	3,948
1950.....	45,197	18,506	901	2,364	15,241	26,691	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098
1951.....	47,819	19,959	929	2,637	16,393	27,860	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,087
1952.....	48,793	20,198	898	2,668	16,632	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188
1953.....	50,202	21,074	866	2,659	17,549	29,128	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340
1954.....	48,990	19,751	791	2,646	16,314	29,239	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563
1955.....	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,610	2,298	6,240	6,914	2,187	4,727
1956.....	52,369	21,104	822	3,039	17,243	31,266	4,244	10,858	3,018	7,840	2,389	6,497	7,278	2,209	5,069
1957.....	52,853	20,964	828	2,962	17,174	31,889	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399
1958.....	51,324	19,513	751	2,817	15,945	31,811	3,976	10,750	2,980	7,770	2,481	6,765	7,839	2,191	5,648
1959.....	53,268	20,411	732	3,004	16,675	32,857	4,011	11,127	3,082	8,045	2,549	7,087	8,083	2,233	5,850
1960.....	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083
1961.....	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315
1962.....	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963.....	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868
1964.....	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965.....	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966.....	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967.....	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968.....	67,897	23,737	606	3,350	19,781	44,160	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102
1969.....	70,384	24,361	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,758	9,437
1970.....	70,880	23,578	623	3,588	19,367	47,302	4,515	15,040	3,993	11,047	3,645	11,548	12,554	2,731	9,823
1971.....	71,214	22,935	609	3,704	18,623	48,278	4,576	15,352	4,001	11,351	3,772	11,977	12,881	2,696	10,185
1972.....	73,675	23,668	628	3,889	19,151	50,007	4,541	15,949	4,113	11,836	3,908	12,276	13,334	2,684	10,649
1973.....	76,790	24,893	642	4,097	20,154	51,897	4,656	16,607	4,277	12,329	4,046	12,857	13,732	2,663	11,068
1974.....	78,265	24,794	697	4,020	20,077	53,471	4,725	16,987	4,433	12,554	4,148	13,441	14,170	2,724	11,446
1975.....	76,945	22,600	752	3,525	18,323	54,345	4,542	17,060	4,415	12,645	4,165	13,892	14,686	2,748	11,937
1976.....	79,382	23,352	779	3,576	18,997	56,030	4,582	17,755	4,546	13,209	4,271	14,551	14,871	2,733	12,138
1977.....	82,471	24,346	813	3,851	19,682	58,125	4,713	18,516	4,708	13,808	4,467	15,303	15,127	2,727	12,399
1978.....	86,697	25,585	851	4,229	20,505	61,113	4,923	19,542	4,969	14,573	4,724	16,252	15,672	2,753	12,919
1979.....	89,823	26,461	958	4,463	21,040	63,363	5,136	20,192	5,204	14,989	4,975	17,112	15,947	2,773	13,174
1980.....	90,406	25,658	1,027	4,346	20,285	64,748	5,146	20,310	5,275	15,035	5,160	17,890	16,241	2,866	13,375
1981.....	91,156	25,497	1,139	4,188	20,170	65,659	5,165	20,547	5,358	15,189	5,298	18,619	16,031	2,772	13,259
1982.....	89,596	23,907	1,143	3,911	18,853	65,689	5,081	20,401	5,280	15,122	5,340	19,064	15,803	2,739	13,064
Monthly data, seasonally adjusted															
1982:															
July.....	89,450	23,843	1,125	3,916	18,802	65,607	5,075	20,438	5,279	15,159	5,342	19,083	15,669	2,737	12,932
August.....	89,264	23,672	1,113	3,893	18,666	65,592	5,056	20,410	5,265	15,145	5,344	19,097	15,685	2,739	12,946
September.....	89,235	23,530	1,100	3,875	18,555	65,705	5,054	20,380	5,252	15,128	5,351	19,136	15,784	2,735	13,049
October.....	88,938	23,287	1,082	3,847	18,358	65,651	5,033	20,344	5,237	15,107	5,350	19,144	15,780	2,742	13,038
November.....	88,785	23,131	1,066	3,843	18,222	65,654	5,019	20,320	5,212	15,108	5,356	19,187	15,772	2,746	13,026
December.....	88,665	23,061	1,053	3,815	18,193	65,604	5,008	20,256	5,192	15,064	5,367	19,215	15,758	2,747	13,011
1983:															
January.....	88,885	23,186	1,037	3,905	18,244	65,699	4,979	20,355	5,185	15,170	5,374	19,238	15,753	2,748	13,005
February.....	88,746	23,049	1,014	3,790	18,245	65,697	4,966	20,343	5,181	15,162	5,384	19,262	15,742	2,742	13,000
March.....	88,814	23,030	1,006	3,757	18,267	65,784	4,963	20,350	5,176	15,174	5,391	19,356	15,724	2,742	12,982
April.....	89,090	23,159	997	3,786	18,376	65,931	4,988	20,329	5,180	15,149	5,423	19,478	15,713	2,738	12,975
May.....	89,421	23,347	994	3,860	18,493	66,074	4,993	20,356	5,197	15,159	5,435	19,546	15,744	2,756	12,988
June.....	89,832	23,534	1,006	3,941	18,587	66,298	4,991	20,485	5,219	15,266	5,451	19,660	15,711	2,745	12,966
July.....</															

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	TOTAL	90,585	89,221	89,830	90,641	90,107	-	-	-	-	-
	PRIVATE SECTOR	74,603	74,212	73,774	74,792	74,961	60,308	59,934	59,551	60,471	60,600
-	MINING	1,169	1,140	996	1,022	1,029	851	825	700	723	728
10	METAL MINING	72.4	65.7	61.9	62.5	-	52.7	46.8	45.2	45.9	-
101	Iron ores	11.0	8.0	8.6	8.6	-	8.0	5.4	5.6	5.8	-
102	Copper ores	23.5	22.1	20.3	20.4	-	16.8	15.7	14.9	14.9	-
11, 12	COAL MINING	245.9	239.5	202.7	207.9	-	201.5	195.3	162.6	167.4	-
12	BITUMINOUS COAL AND LIGNITE MINING	242.4	236.1	200.0	205.3	-	198.4	192.3	160.3	165.1	-
13	OIL AND GAS EXTRACTION	734.3	718.3	618.6	635.5	-	507.0	493.5	405.8	420.7	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	282.5	285.9	279.3	284.1	-	129.9	132.4	128.9	132.4	-
138	Oil and gas field services	451.8	432.4	339.3	351.4	-	377.1	361.1	276.9	288.3	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	116.4	116.8	112.9	115.7	-	89.3	89.3	86.2	88.9	-
142	Crushed and broken stone	38.0	38.2	39.6	40.7	-	30.6	31.0	31.4	32.5	-
144	Sand and gravel	35.2	35.5	34.4	36.1	-	-	-	-	-	-
147	Chemical and fertilizer minerals	23.1	23.3	19.9	19.8	-	-	-	-	-	-
-	CONSTRUCTION	4,092	4,147	3,887	4,099	4,219	3,170	3,227	2,980	3,179	3,288
15	GENERAL BUILDING CONTRACTORS	1,037.6	1,054.6	990.8	1,062.9	-	779.7	794.7	728.1	792.4	-
152	Residential building construction	472.9	486.6	475.5	515.6	-	343.0	355.3	340.5	376.0	-
153	Operative builders	49.7	49.1	53.9	59.7	-	25.5	24.4	29.4	33.6	-
154	Nonresidential building construction	515.0	518.9	461.4	487.6	-	411.2	415.0	358.2	382.8	-
16	HEAVY CONSTRUCTION CONTRACTORS	884.9	892.6	805.6	841.7	-	710.1	720.9	641.9	679.7	-
161	Highway and street construction	249.6	257.4	228.0	252.7	-	211.1	219.0	190.7	214.9	-
162	Heavy construction, except highway	635.3	635.2	577.6	589.0	-	499.0	501.9	451.2	464.8	-
17	SPECIAL TRADE CONTRACTORS	2,169.5	2,199.6	2,090.6	2,194.2	-	1,679.9	1,711.7	1,609.6	1,707.1	-
171	Plumbing, heating, air conditioning	502.4	506.2	478.6	490.2	-	363.8	369.0	342.4	352.5	-
172	Painting, paper hanging, decorating	132.6	137.1	126.0	135.3	-	110.1	114.8	104.2	113.1	-
173	Electrical work	408.4	411.4	382.0	391.8	-	311.0	314.1	285.6	294.7	-
174	Masonry, stonework, and plastering	314.8	321.7	313.6	336.7	-	265.9	272.0	262.9	285.2	-
175	Carpentering and flooring	107.2	107.4	112.3	118.3	-	79.6	79.7	83.9	89.3	-
176	Roofing and sheet metal work	159.5	164.6	152.1	157.8	-	126.6	131.6	119.7	125.5	-
-	MANUFACTURING	19,039	18,704	18,468	18,709	18,664	12,941	12,630	12,523	12,723	12,681
24, 25, 32-39	DURABLE GOODS	11,258	11,043	10,808	10,934	10,931	7,485	7,285	7,148	7,249	7,242
20-23, 28-31	NONDURABLE GOODS	7,781	7,661	7,660	7,775	7,733	5,456	5,345	5,375	5,474	5,439
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	616.6	614.7	665.1	696.4	706.7	506.3	504.9	553.5	582.5	591.6
241	Logging camps and logging contractors	79.1	81.6	80.0	87.6	-	60.7	63.4	61.7	68.9	-
242	Sawmills and planing mills	182.5	182.7	199.4	208.9	-	160.1	160.2	176.4	185.7	-
2421	Sawmills and planing mills, general	153.0	153.8	167.2	175.7	-	134.7	135.3	148.3	156.6	-
2426	Hardwood dimension and flooring	26.1	25.5	27.8	28.5	-	22.4	21.9	24.2	24.9	-
243	Millwork, plywood, and structural members	179.4	178.1	200.1	207.2	-	145.2	144.2	165.3	171.4	-
2431	Millwork	67.0	68.2	77.0	80.0	-	52.8	53.7	61.8	64.4	-
2434	Wood kitchen cabinets	42.7	41.4	46.1	47.4	-	33.4	32.4	36.7	37.6	-
2435	Hardwood veneer and plywood	21.8	21.1	22.5	23.2	-	18.9	18.3	19.7	20.3	-
2436	Softwood veneer and plywood	34.8	34.0	38.4	39.1	-	30.3	29.7	34.3	35.1	-
244	Wood containers	39.6	38.7	39.7	40.5	-	33.5	32.6	33.6	34.3	-
245	Wood buildings and mobile homes	63.0	62.9	72.3	77.4	-	46.4	46.4	55.4	60.1	-
2451	Mobile homes	45.8	45.2	52.1	55.0	-	35.7	35.2	41.5	44.5	-
249	Miscellaneous wood products	73.0	70.7	73.6	74.8	-	60.4	58.1	61.1	62.1	-
25	FURNITURE AND FIXTURES	430.9	418.3	443.5	448.2	445.3	340.4	328.8	351.1	355.5	353.1
261	Household furniture	266.1	254.6	276.9	278.9	-	218.9	208.5	228.9	230.9	-
2511	Wood household furniture	119.1	114.0	123.0	123.7	-	102.2	97.5	105.9	106.8	-
2512	Upholstered household furniture	83.0	80.1	88.1	89.2	-	66.4	64.1	71.0	72.0	-
2514	Metal household furniture	25.6	22.5	28.3	27.9	-	20.3	17.4	22.8	22.5	-
2515	Mattresses and bedspreads	27.6	27.6	28.4	28.9	-	20.8	20.6	21.6	21.9	-
252	Office furniture	54.3	53.3	54.8	56.2	-	41.9	40.8	41.9	43.2	-
253	Public building and related furniture	22.2	22.0	21.3	21.3	-	16.8	16.4	15.6	15.6	-
264	Partitions and fixtures	58.2	58.3	58.1	59.1	-	42.5	42.7	42.7	43.4	-
269	Miscellaneous furniture and fixtures	30.1	30.1	32.4	32.7	-	20.3	20.4	22.0	22.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
32	STONE, CLAY, AND GLASS PRODUCTS	592.3	589.1	573.1	585.7	586.7	449.6	447.1	436.8	448.2	449.5
321	Flat glass	16.6	15.4	16.6	16.8	-	12.8	11.8	12.9	13.2	-
322	Glass and glassware, pressed or blown	110.7	111.4	102.7	104.3	-	92.5	93.4	86.0	87.8	-
3221	Glass containers	62.8	63.0	56.5	57.6	-	55.1	55.4	49.3	50.6	-
3229	Pressed and blown glass, nec	47.9	48.4	46.2	46.7	-	37.4	38.0	36.7	37.2	-
323	Products of purchased glass	42.1	42.4	42.4	42.4	-	28.0	28.3	28.2	27.8	-
324	Cement, hydraulic	27.9	27.6	26.1	26.6	-	22.1	21.7	20.5	21.0	-
325	Structural clay products	35.1	34.8	36.2	37.1	-	25.8	25.4	27.3	28.1	-
326	Pottery and related products	39.3	37.8	38.3	38.6	-	31.9	30.3	30.1	30.4	-
327	Concrete, gypsum, and plaster products	189.3	191.7	187.7	195.3	-	144.4	146.5	144.1	151.0	-
3271	Concrete block and brick	18.2	18.1	18.3	18.8	-	12.3	12.1	12.4	12.8	-
3272	Concrete products, nec	61.5	62.6	58.4	60.6	-	45.6	46.6	43.1	45.1	-
3273	Ready-mixed concrete	91.8	93.3	93.2	97.5	-	72.2	73.5	74.3	78.3	-
328	Misc. nonmetallic mineral products	120.5	117.4	112.9	114.3	-	83.6	81.4	79.7	80.8	-
3291	Abrasive products	23.9	23.4	21.9	22.3	-	15.2	14.7	14.1	14.6	-
3292	Asbestos products	13.2	12.7	12.9	13.3	-	9.8	9.4	9.5	9.8	-
3298	Mineral wool	27.2	27.2	25.4	25.8	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	939.0	905.4	832.7	839.1	838.1	697.2	667.8	619.0	625.1	625.3
331	Blast furnace and basic steel products	404.5	385.8	336.5	339.1	-	300.3	284.9	251.9	254.6	-
3312	Blast furnaces and steel mills	332.3	317.3	275.6	278.4	-	247.1	235.1	207.7	210.7	-
3317	Steel pipe and tubes	28.8	26.4	22.6	22.6	-	21.5	19.2	15.9	15.8	-
332	Iron and steel foundries	161.1	153.9	141.6	142.5	-	124.0	117.4	107.7	108.7	-
3321	Gray iron foundries	97.3	95.4	92.2	92.6	-	77.2	75.6	72.8	73.3	-
3322	Malleable iron foundries	12.5	11.8	10.2	10.3	-	9.3	8.6	7.4	7.4	-
3325	Steel foundries, nec	39.8	35.7	29.9	30.8	-	29.9	25.9	21.2	22.2	-
333	Primary nonferrous metals	55.6	54.1	48.1	49.6	-	39.9	38.7	34.7	35.8	-
3334	Primary aluminum	29.5	28.4	24.5	25.4	-	21.8	20.8	18.4	19.1	-
335	Nonferrous rolling and drawing	191.7	188.7	183.4	183.1	-	135.7	132.9	129.5	129.0	-
3351	Copper rolling and drawing	26.7	26.3	26.4	26.4	-	19.7	19.4	19.1	19.3	-
3353	Aluminum sheet, plate, and foil	30.9	30.7	30.0	29.0	-	23.7	23.5	23.4	22.3	-
3357	Nonferrous wire drawing and insulating	81.7	80.3	76.1	76.7	-	57.8	56.4	53.5	53.9	-
336	Nonferrous foundries	82.0	79.9	82.5	84.1	-	64.7	62.5	65.7	67.3	-
3361	Aluminum foundries	48.0	46.9	49.3	50.3	-	38.7	37.6	40.3	41.3	-
34	FABRICATED METAL PRODUCTS	1,450.4	1,417.3	1,377.3	1,393.2	1,383.3	1,046.2	1,017.2	995.5	1,010.9	1,001.9
341	Metal cans and shipping containers	65.9	64.8	63.3	63.4	-	55.6	54.8	53.5	53.7	-
3411	Metal cans	53.6	52.9	51.0	51.2	-	46.0	45.5	44.0	44.2	-
342	Cutlery, hand tools, and hardware	140.4	137.4	137.5	139.6	-	102.7	99.6	101.1	103.1	-
3423,5	Hand and edge tools, and hand saws and blades	46.7	45.1	44.0	44.3	-	34.5	32.8	32.0	32.3	-
3429	Hardware, nec	80.7	79.3	81.0	82.6	-	59.3	57.9	60.6	62.1	-
343	Plumbing and heating, except electric	59.9	58.7	61.3	62.4	-	41.2	40.1	42.8	43.6	-
3432	Plumbing fittings and brass goods	23.2	22.4	23.5	23.8	-	18.3	17.5	18.0	18.1	-
3433	Heating equipment, except electric	27.2	27.0	28.5	29.2	-	16.9	16.7	18.4	19.0	-
344	Fabricated structural metal products	458.4	454.3	423.4	432.2	-	306.0	303.6	282.0	290.4	-
3441	Fabricated structural metal	89.4	88.5	76.1	76.2	-	62.5	62.0	51.8	52.2	-
3442	Metal doors, sash, and trim	74.6	75.9	79.4	84.4	-	53.6	55.1	57.4	61.6	-
3443	Fabricated plate work (boiler shops)	131.2	129.8	110.2	110.5	-	76.8	76.1	63.4	63.8	-
3444	Sheet metal work	100.9	99.7	98.8	100.6	-	72.0	71.0	70.2	72.0	-
3446	Architectural metal work	27.8	27.0	27.8	28.4	-	19.0	18.1	19.2	19.7	-
345	Screw machine products, bolts, etc.	92.5	90.3	86.0	87.2	-	69.3	67.1	63.8	64.7	-
3451	Screw machine products	43.4	42.4	40.4	41.5	-	34.2	33.0	31.6	32.4	-
3452	Bolts, nuts, rivets, and washers	49.1	47.9	45.6	45.7	-	35.1	34.1	32.2	32.3	-
346	Metal forgings and stampings	237.8	228.0	229.2	230.3	-	186.7	177.3	181.1	182.1	-
3462	Iron and steel forgings	39.2	38.0	32.5	32.5	-	29.6	28.4	24.2	24.3	-
3465	Automotive stampings	88.3	85.0	87.2	87.3	-	74.5	71.1	74.1	74.0	-
3469	Metal stampings, nec	98.9	93.8	98.6	100.2	-	74.0	69.4	74.6	76.0	-
347	Metal services, nec	96.8	92.4	93.3	94.0	-	76.8	72.5	74.0	75.2	-
3471	Plating and polishing	67.2	63.2	66.5	67.0	-	54.6	50.7	53.9	54.7	-
3479	Metal coating and allied services	29.6	29.2	26.8	27.0	-	22.2	21.8	20.1	20.5	-
348	Ordnance and accessories, nec	65.9	65.3	65.2	65.3	-	42.1	41.6	42.1	42.2	-
3483	Ammunition, exc. for small arms, nec	27.4	27.4	28.8	28.8	-	17.8	17.5	18.9	19.1	-
349	Misc. fabricated metal products	232.8	226.1	218.1	218.8	-	165.8	160.6	155.1	155.9	-
3494	Valves and pipe fittings	94.1	90.9	83.4	83.1	-	62.1	59.7	53.9	53.8	-
3496	Misc. fabricated wire products	50.2	48.0	50.4	50.9	-	37.9	35.9	37.9	38.2	-
35	MACHINERY, EXCEPT ELECTRICAL	2,311.3	2,240.4	2,069.8	2,079.5	2,081.3	1,405.3	1,341.0	1,208.7	1,214.4	1,217.0
351	Engines and turbines	113.5	111.8	102.8	103.6	-	69.1	68.4	60.6	61.7	-
3511	Turbines and turbine generator sets	42.5	41.9	38.2	37.9	-	22.5	22.4	20.2	19.9	-
3519	Internal combustion engines, nec	71.0	69.9	64.6	65.7	-	46.6	46.0	40.4	41.8	-
352	Farm and garden machinery	145.5	130.3	130.0	128.6	-	95.6	80.7	84.5	82.7	-
3523	Farm machinery and equipment	129.5	117.3	112.0	110.9	-	84.8	73.0	71.8	70.4	-
353	Construction and related machinery	349.0	331.5	268.5	268.9	-	218.0	203.8	148.6	150.3	-
3531	Construction machinery	107.3	105.7	90.9	91.3	-	64.7	63.6	44.7	46.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3632	Mining machinery.....	33.3	31.7	23.2	23.3	-	20.1	18.7	13.0	13.1	-
3633	Oil field machinery.....	122.3	110.8	78.5	77.2	-	83.3	73.8	47.9	46.7	-
3635	Conveyers and conveying equipment.....	31.3	30.5	27.0	27.3	-	16.5	15.9	13.8	14.0	-
3637	Industrial trucks and tractors.....	29.2	28.0	26.6	27.2	-	17.9	16.9	15.6	16.3	-
354	Metalworking machinery.....	319.3	307.0	275.6	275.8	-	222.9	212.2	189.5	190.4	-
3541	Machine tools, metal cutting types.....	65.4	61.0	48.8	48.4	-	39.6	36.2	27.4	27.3	-
3542	Machine tools, metal forming types.....	21.2	20.6	16.5	16.4	-	12.7	12.4	9.6	9.5	-
3544	Special dies, tools, jigs, and fixtures.....	126.9	123.9	118.4	119.2	-	99.1	96.0	91.0	91.9	-
3545	Machine tool accessories.....	59.7	57.8	51.2	51.2	-	40.0	38.2	34.2	34.4	-
3546	Power driven hand tools.....	25.0	23.1	23.1	23.4	-	18.1	16.3	16.5	16.8	-
355	Special industry machinery.....	177.6	175.0	158.3	159.0	-	108.0	106.2	92.0	92.2	-
3551	Food products machinery.....	40.0	39.2	35.9	35.7	-	25.4	24.8	22.0	21.9	-
3552	Textile machinery.....	21.4	21.2	19.6	19.9	-	14.1	13.9	12.9	13.2	-
3555	Printing trades machinery.....	35.8	36.0	33.6	33.9	-	21.6	21.7	19.1	19.2	-
356	General industrial machinery.....	294.9	282.2	251.5	252.6	-	185.7	174.4	153.5	154.8	-
3561	Pumps and pumping equipment.....	57.7	55.8	49.5	49.6	-	33.3	31.3	27.2	27.3	-
3562	Ball and roller bearings.....	50.6	47.8	44.4	44.8	-	37.7	35.2	32.8	33.1	-
3563	Air and gas compressors.....	29.5	28.7	23.6	23.6	-	16.3	15.5	11.5	11.6	-
3564	Blowers and fans.....	38.8	37.5	34.6	34.4	-	24.0	23.1	21.0	20.9	-
3566	Speed changers, drives, and gears.....	22.9	21.4	18.8	19.0	-	15.0	13.7	11.8	11.9	-
3568	Power transmission equipment, nec.....	21.0	19.5	16.4	16.7	-	14.3	12.9	10.7	11.0	-
357	Office and computing machines.....	479.5	480.3	479.9	487.1	-	192.1	190.4	190.5	191.7	-
3573	Electronic computing equipment.....	409.3	411.4	414.4	421.6	-	156.3	155.3	157.7	158.4	-
358	Refrigeration and service machinery.....	161.8	158.9	158.4	157.3	-	110.9	108.2	108.0	107.8	-
3585	Refrigeration and heating equipment.....	110.4	108.2	110.2	109.1	-	76.7	74.8	76.5	76.2	-
359	Misc. machinery, except electrical.....	270.2	263.4	244.8	246.6	-	203.0	196.7	181.5	182.8	-
3592	Carburetors, pistons, rings, valves.....	34.0	33.9	33.5	33.3	-	26.4	26.0	26.8	26.5	-
3599	Machinery, except electrical, nec.....	236.2	229.5	211.3	213.3	-	176.6	170.7	154.7	156.3	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT.....	2,035.9	2,007.3	2,007.7	2,040.3	2,043.8	1,233.9	1,202.1	1,215.5	1,235.0	1,233.6
361	Electric distributing equipment.....	113.3	110.0	108.1	109.1	-	79.2	76.4	76.6	77.7	-
3612	Transformers.....	50.5	49.6	47.2	47.8	-	35.8	35.0	32.8	33.6	-
3613	Switchgear and switchboard apparatus.....	62.8	60.4	60.9	61.3	-	43.4	41.4	43.8	44.1	-
362	Electrical industrial apparatus.....	210.7	202.5	189.4	190.8	-	147.3	139.5	130.6	131.5	-
3621	Motors and generators.....	103.6	98.6	95.4	96.5	-	78.4	73.8	72.7	73.6	-
3622	Industrial controls.....	65.1	63.6	57.7	57.7	-	39.6	38.1	33.9	33.7	-
363	Household appliances.....	146.0	140.8	145.3	149.7	-	113.0	108.4	113.5	117.2	-
3632	Household refrigerators and freezers.....	28.3	26.9	23.8	25.6	-	22.5	21.4	18.9	20.4	-
3633	Household laundry equipment.....	18.9	20.3	23.3	23.6	-	14.1	15.1	18.2	18.4	-
3634	Electric housewares and fans.....	44.9	41.0	43.3	43.8	-	35.2	31.6	33.5	33.9	-
364	Electric lighting and wiring equipment.....	187.8	182.6	184.4	186.8	-	137.0	132.3	134.4	136.2	-
3641	Electric lamps.....	30.5	29.4	26.9	27.1	-	26.9	25.3	23.4	23.6	-
3643	Current-carrying wiring devices.....	78.7	75.4	78.4	79.9	-	52.3	49.9	52.5	53.2	-
3644	Noncurrent-carrying wiring devices.....	18.3	17.9	17.0	17.1	-	13.3	13.0	12.0	12.3	-
3645	Residential lighting fixtures.....	21.2	21.5	23.9	24.4	-	15.7	15.8	17.9	18.4	-
365	Radio and TV receiving equipment.....	92.0	89.4	86.9	87.1	-	62.6	60.6	60.5	60.5	-
3651	Radio and TV receiving sets.....	72.3	70.4	67.2	67.4	-	48.4	47.1	46.1	46.0	-
366	Communication equipment.....	571.9	574.6	573.5	581.5	-	266.7	266.5	260.7	263.2	-
3661	Telephone and telegraph apparatus.....	148.2	147.8	136.4	138.4	-	95.8	95.1	86.3	87.0	-
3662	Radio and TV communication equipment.....	423.7	426.8	437.1	443.1	-	170.9	171.4	174.4	176.2	-
367	Electronic components and accessories.....	568.5	564.5	575.1	589.3	-	325.1	318.6	336.3	344.7	-
367-1-3	Electronic tubes.....	42.8	42.5	43.5	44.1	-	26.0	26.0	27.8	28.3	-
3674	Semiconductors and related devices.....	230.0	232.3	232.8	237.1	-	90.5	90.4	97.7	98.6	-
3679	Electronic components, nec.....	223.6	220.8	230.5	237.5	-	154.0	150.7	160.1	165.1	-
369	Misc. electrical equipment and supplies.....	145.7	142.9	145.0	146.0	-	103.0	99.8	102.9	104.0	-
3691	Storage batteries.....	28.9	27.9	28.0	28.7	-	22.3	21.2	21.7	22.4	-
3694	Engine electrical equipment.....	56.8	56.0	57.0	57.4	-	44.0	43.1	43.9	44.5	-
37	TRANSPORTATION EQUIPMENT.....	1,767.8	1,753.7	1,769.2	1,773.9	1,779.0	1,107.2	1,093.7	1,109.4	1,111.5	1,114.4
371	Motor vehicles and equipment.....	724.9	721.5	760.1	766.5	-	535.9	532.5	569.5	577.2	-
3711	Motor vehicles and car bodies.....	323.5	330.8	361.3	361.4	-	226.4	232.8	260.0	262.1	-
3713	Truck and bus bodies.....	32.7	32.6	31.7	32.3	-	24.8	24.7	24.1	24.7	-
3714	Motor vehicle parts and accessories.....	340.9	331.7	336.1	339.9	-	264.2	256.0	261.8	265.2	-
3715	Truck trailers.....	20.9	19.6	21.1	22.6	-	15.2	13.8	15.6	16.9	-
372	Aircraft and parts.....	600.8	596.7	579.2	575.8	-	305.1	300.6	284.5	279.5	-
3721	Aircraft.....	319.7	317.7	307.5	306.4	-	144.1	142.4	134.3	132.0	-
3724	Aircraft engines and engine parts.....	148.4	146.7	142.9	140.1	-	83.9	82.0	76.9	74.1	-
3728	Aircraft equipment, nec.....	132.7	132.3	128.8	129.3	-	77.1	76.2	73.3	73.4	-
373	Ship and boat building and repairing.....	214.8	209.8	198.6	197.9	-	163.5	159.5	149.3	147.8	-
3731	Ship building and repairing.....	175.6	172.9	154.2	153.4	-	131.6	129.9	112.5	111.0	-
3732	Boat building and repairing.....	39.2	36.9	44.4	44.5	-	31.9	29.6	36.8	36.8	-
374	Railroad equipment.....	37.9	36.7	28.6	29.4	-	23.6	22.7	17.6	18.5	-
376	Guided missiles, space vehicles, parts.....	132.3	133.1	140.9	142.1	-	40.0	40.2	45.6	45.5	-
3781	Guided missiles and space vehicles.....	104.9	105.6	111.8	112.5	-	30.1	30.3	35.0	34.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	TRANSPORTATION EQUIPMENT—Continued										
379	Miscellaneous transportation equipment	43.3	42.2	47.8	48.1	-	29.9	28.8	32.6	32.6	-
3792	Travel trailers and campers	17.0	16.2	20.1	20.6	-	13.2	12.4	16.0	16.3	-
38	INSTRUMENTS AND RELATED PRODUCTS	725.5	718.7	688.3	691.1	685.3	417.2	410.6	384.4	386.7	380.3
381	Engineering and scientific instruments	82.4	81.9	80.0	80.4	-	38.2	37.9	36.8	37.0	-
382	Measuring and controlling devices	248.5	246.1	235.1	235.7	-	151.1	148.7	138.0	138.6	-
3822	Environmental controls	43.1	42.2	44.0	44.2	-	28.6	27.8	28.8	29.2	-
3823	Process control instruments	60.9	59.9	54.7	54.7	-	31.2	30.4	26.3	26.3	-
3825	Instruments to measure electricity	102.4	102.8	98.0	98.2	-	62.9	62.7	56.9	57.0	-
383	Optical instruments and lenses	33.8	33.4	33.4	33.6	-	18.5	18.1	16.7	16.7	-
384	Medical instruments and supplies	159.8	157.8	157.6	159.8	-	98.6	96.2	95.6	97.6	-
3841	Surgical and medical instruments	76.4	76.5	75.7	76.9	-	44.7	44.2	43.9	44.9	-
3842	Surgical appliances and supplies	68.0	66.0	68.0	69.1	-	44.7	42.9	43.6	44.7	-
385	Ophthalmic goods	39.3	38.3	37.1	37.2	-	27.3	26.7	25.4	25.4	-
386	Photographic equipment and supplies	143.8	144.1	128.2	127.3	-	71.0	71.2	60.5	59.6	-
387	Watches, clocks, and watchcases	17.9	17.1	16.9	17.1	-	12.5	11.8	11.4	11.8	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	388.7	378.5	381.5	386.8	381.1	281.8	272.2	274.4	279.3	275.7
391	Jewelry, silverware, and plated ware	54.8	51.7	55.1	55.5	-	38.6	36.0	38.8	39.1	-
3911	Jewelry, precious metal	35.8	33.7	36.4	36.4	-	25.2	23.4	25.6	25.6	-
393	Musical instruments	18.6	18.4	18.8	19.1	-	14.4	14.3	14.6	14.9	-
394	Toys and sporting goods	114.8	113.2	111.7	113.5	-	85.2	83.7	80.0	82.2	-
3942, 4	Dolls, games, toys, and children's vehicles	60.5	59.9	58.9	60.9	-	43.4	42.9	40.3	42.6	-
3949	Sporting and athletic goods, nec	54.3	53.3	52.8	52.6	-	41.8	40.8	39.7	39.6	-
395	Pens, pencils, office and art supplies	32.7	31.7	30.9	31.3	-	22.5	21.6	21.3	21.9	-
396	Costume jewelry and notions	39.5	36.2	39.4	39.8	-	29.9	27.1	30.2	30.6	-
3961	Costume jewelry	20.2	17.8	20.8	20.9	-	15.5	13.5	16.1	16.2	-
399	Miscellaneous manufactures	128.3	127.3	125.6	127.6	-	91.2	89.5	89.5	90.6	-
3993	Signs and advertising displays	47.2	46.8	47.4	48.7	-	33.7	33.0	33.3	34.2	-
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	1,619.7	1,666.1	1,584.4	1,630.2	1,664.3	1,107.0	1,149.3	1,080.8	1,120.3	1,152.5
201	Meat products	349.0	346.5	339.8	342.2	-	292.0	289.1	283.2	285.1	-
2011	Meat packing plants	146.5	144.2	139.9	138.5	-	120.5	117.8	113.4	112.1	-
2013	Sausages and other prepared meats	71.9	71.9	69.8	71.3	-	53.4	53.7	51.7	52.9	-
2016	Poultry dressing plants	114.8	114.8	114.3	116.2	-	104.3	104.0	104.2	105.8	-
202	Dairy products	170.8	170.9	165.1	169.0	-	96.4	97.0	93.7	97.3	-
2022	Cheese, natural and processed	36.8	36.9	35.5	36.3	-	27.8	27.9	27.1	27.9	-
2026	Fluid milk	94.9	94.5	90.8	92.2	-	43.0	43.1	41.7	42.9	-
203	Preserved fruits and vegetables	216.5	263.6	210.0	229.8	-	176.1	220.2	169.9	188.0	-
2032	Canned specialties	22.7	23.2	21.9	22.7	-	16.5	16.8	16.1	16.7	-
2033	Canned fruits and vegetables	73.5	110.1	67.3	74.3	-	57.6	91.5	52.4	58.3	-
2037	Frozen fruits and vegetables	46.1	49.1	44.9	50.8	-	40.2	43.1	38.5	44.3	-
204	Grain mill products	134.0	132.9	133.4	136.5	-	90.9	90.0	89.5	91.9	-
2041	Flour and other grain mill products	25.0	25.0	26.6	27.0	-	15.2	15.5	16.0	16.1	-
2048	Prepared feeds, nec	51.3	51.0	49.2	49.9	-	37.9	32.5	31.1	31.9	-
205	Bakery products	220.2	220.7	217.5	220.1	-	128.7	129.5	127.7	130.2	-
2051	Bread, cake, and related products	178.1	177.9	174.4	176.6	-	95.6	95.7	93.2	95.2	-
2052	Cookies and crackers	42.1	42.8	43.1	43.5	-	33.1	33.8	34.5	35.0	-
206	Sugar and confectionery products	93.4	91.3	98.9	101.3	-	70.3	68.8	75.8	78.0	-
2061-3	Cane and beet sugar	25.5	24.3	25.4	25.8	-	18.5	17.9	19.0	19.2	-
2065	Confectionery products	48.6	46.8	53.9	55.2	-	38.8	37.3	43.5	45.0	-
207	Fats and oils	39.2	38.0	36.2	35.9	-	29.2	28.0	26.8	26.4	-
208	Beverages	235.7	234.5	225.2	228.4	-	102.6	100.6	96.2	97.1	-
2062	Malt beverages	52.3	50.5	48.4	47.8	-	33.6	31.8	31.0	29.8	-
2086	Bottled and canned soft drinks	137.7	139.0	132.7	135.7	-	45.5	46.0	42.9	44.3	-
209	Misc. foods and kindred products	160.9	167.7	158.3	167.0	-	120.8	126.1	118.0	126.3	-
21	TOBACCO MANUFACTURES	64.0	62.7	60.8	61.1	60.6	49.1	48.0	46.0	45.9	45.8
211	Cigarettes	48.2	47.5	44.5	44.9	-	37.2	36.7	33.6	33.7	-
22	TEXTILE MILL PRODUCTS	745.7	727.6	737.6	746.8	737.4	637.1	621.3	634.7	643.9	636.0
221	Weaving mills, cotton	126.0	122.6	122.4	123.4	-	110.3	106.9	108.4	109.6	-
222	Weaving mills, synthetics	88.7	91.3	89.0	90.4	-	77.6	80.4	79.4	81.0	-
223	Weaving and finishing mills, wool	17.3	16.0	16.8	17.4	-	14.4	13.3	14.1	14.6	-
224	Narrow fabric mills	22.9	20.9	21.9	22.1	-	19.9	17.9	18.8	19.0	-
225	Knitting mills	207.8	202.3	204.0	207.1	-	179.6	174.6	175.9	178.7	-
2251	Women's hosiery, except socks	31.7	31.2	32.5	33.5	-	28.4	27.9	29.1	29.9	-
2252	Hosiery, nec	31.9	32.0	31.8	32.6	-	28.7	28.8	28.8	29.5	-
2253	Knit outerwear mills	67.5	65.9	63.7	63.9	-	58.0	56.5	54.1	54.5	-
2254	Knit underwear mills	29.2	28.1	29.8	30.3	-	24.5	23.7	25.3	25.7	-

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				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
TEXTILE MILL PRODUCTS—Continued											
2257	Circular knit fabric mills	26.5	25.1	26.7	26.7	-	22.4	21.1	22.5	22.5	-
226	Textile finishing, except wool	66.0	63.7	65.1	65.2	-	54.5	52.2	54.1	54.4	-
2261	Finishing plants, cotton	27.9	27.2	27.6	27.6	-	22.9	22.0	22.9	22.8	-
2262	Finishing plants, synthetics	24.0	22.9	22.8	22.7	-	20.0	18.9	18.9	19.0	-
227	Floor covering mills	47.9	46.4	48.1	48.5	-	37.6	36.6	37.9	38.6	-
228	Yarn and thread mills	109.5	106.1	111.4	112.4	-	96.5	93.9	99.7	100.7	-
2281	Yarn mills, except wool	74.1	72.2	76.4	77.1	-	66.4	65.1	69.2	69.8	-
2282	Throwing and winding mills	17.3	16.6	17.3	17.4	-	15.1	14.4	15.3	15.5	-
229	Miscellaneous textile goods	59.6	58.3	58.9	60.3	-	46.7	45.5	46.4	47.3	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,186.8	1,098.9	1,159.7	1,179.8	1,139.4	1,005.6	923.4	981.9	1,000.3	960.9
231	Men's and boys' suits and coats	76.7	71.0	68.6	69.5	-	67.0	61.8	59.8	61.0	-
232	Men's and boys' furnishings	330.2	313.0	325.2	329.8	-	281.0	264.9	278.2	282.5	-
2321	Men's and boys' shirts and nightwear	95.3	90.9	90.8	92.3	-	81.8	77.6	78.1	79.6	-
2327	Men's and boys' separate trousers	66.4	63.5	65.8	66.4	-	57.9	55.0	57.2	57.8	-
2328	Men's and boys' work clothing	93.1	88.1	95.2	97.3	-	77.5	72.8	80.7	82.4	-
233	Women's and misses' outerwear	395.4	346.2	386.6	392.9	-	337.2	291.5	327.8	333.1	-
2331	Women's and misses' blouses and waists	63.3	52.6	62.6	64.1	-	54.6	44.0	53.0	54.4	-
2335	Women's and misses' dresses	131.1	115.8	126.6	129.0	-	113.6	100.0	108.7	111.0	-
2337	Women's and misses' suits and coats	61.2	55.6	57.9	61.6	-	52.3	46.6	49.4	52.0	-
2339	Women's and misses' outerwear, nec	139.8	122.2	139.5	138.2	-	116.7	100.9	116.7	115.7	-
234	Women's and children's undergarments	83.1	80.5	82.3	83.4	-	70.6	68.0	69.7	70.5	-
2341	Women's and children's underwear	67.8	65.4	67.3	68.5	-	59.0	56.5	58.4	59.3	-
2342	Brassieres and allied garments	15.3	15.1	15.0	14.9	-	11.6	11.5	11.3	11.2	-
236	Children's outerwear	64.3	62.5	60.2	62.6	-	54.5	52.9	51.2	53.4	-
2361	Children's dresses and blouses	27.1	26.2	25.7	26.5	-	24.2	23.4	22.8	23.5	-
238	Misc. apparel and accessories	50.6	46.1	46.2	47.7	-	42.5	38.3	38.3	39.6	-
239	Misc. fabricated textile products	166.1	160.3	170.8	173.6	-	135.8	129.8	140.5	143.2	-
2391	Curtains and draperies	23.7	22.8	23.7	24.6	-	19.3	18.5	19.4	20.2	-
2392	House furnishings, nec	46.6	45.1	50.3	50.4	-	38.6	37.4	42.1	42.4	-
2396	Automotive and apparel trimmings	30.8	29.9	31.7	32.5	-	25.1	23.7	26.2	27.0	-
26	PAPER AND ALLIED PRODUCTS	666.5	660.6	654.9	662.4	661.8	496.3	490.8	489.7	496.4	496.9
261, 2,6	Paper and pulp mills	200.3	199.1	193.8	194.8	-	150.8	149.3	146.2	147.0	-
262	Paper mills, except building paper	173.6	172.6	167.5	168.0	-	129.2	128.0	124.9	125.0	-
263	Paperboard mills	60.7	60.0	58.8	59.5	-	46.9	46.2	45.0	45.4	-
264	Misc. converted paper products	215.6	213.8	216.1	219.5	-	155.5	154.0	157.3	160.5	-
2641	Paper coating and glazing	57.6	57.2	57.4	58.8	-	36.1	35.9	36.8	38.0	-
2642	Envelopes	25.5	24.7	25.7	26.1	-	19.5	18.8	19.9	20.1	-
2643	Bags, except textile bags	48.3	47.9	48.3	48.4	-	37.0	36.8	37.3	37.6	-
265	Paperboard containers and boxes	189.9	187.7	186.2	188.6	-	143.1	141.3	141.2	143.5	-
2651	Folding paperboard boxes	41.0	40.4	39.5	40.2	-	31.7	31.2	30.7	31.4	-
2653	Corrugated and solid fiber boxes	98.3	97.1	97.2	98.6	-	71.9	70.8	71.7	73.0	-
2654	Sanitary food containers	22.8	22.9	22.8	23.1	-	18.3	18.4	18.4	18.8	-
27	PRINTING AND PUBLISHING	1,268.0	1,261.0	1,274.8	1,280.0	1,281.2	696.3	689.4	700.7	701.7	701.9
271	Newspapers	418.1	417.4	418.7	422.2	-	157.5	156.4	157.5	158.3	-
272	Periodicals	97.1	97.5	97.9	98.3	-	21.2	21.0	21.3	21.1	-
273	Books	100.4	99.7	97.5	95.5	-	50.6	50.2	50.4	49.1	-
2731	Book publishing	71.2	71.1	69.3	67.8	-	26.7	27.0	27.2	26.3	-
2732	Book printing	29.2	28.6	28.2	27.7	-	23.9	23.2	23.2	22.8	-
274	Miscellaneous publishing	50.1	49.4	51.6	51.5	-	26.3	25.2	28.2	27.7	-
275	Commercial printing	423.3	418.6	429.7	432.3	-	310.1	306.0	313.3	314.7	-
2751	Commercial printing, letterpress	150.8	149.2	151.3	152.7	-	111.1	109.9	112.3	113.2	-
2752	Commercial printing, lithographic	249.6	246.8	255.7	257.1	-	180.7	178.2	183.1	183.8	-
276	Manifold business forms	47.4	47.2	47.4	47.7	-	33.2	33.2	33.0	33.2	-
278	Blankbooks and bookbinding	61.2	60.9	60.9	61.3	-	49.5	49.4	49.1	49.8	-
279	Printing trade services	45.6	45.1	47.0	47.0	-	33.6	33.3	34.8	34.6	-
28	CHEMICALS AND ALLIED PRODUCTS	1,088.8	1,079.2	1,057.5	1,066.2	1,064.0	606.6	597.5	587.8	593.6	591.1
281	Industrial inorganic chemicals	161.8	159.9	153.1	153.2	-	86.4	84.1	78.6	78.4	-
2819	Industrial inorganic chemicals, nec	106.8	106.2	103.2	103.6	-	56.7	55.8	54.0	53.8	-
282	Plastics materials and synthetics	188.2	185.9	179.6	181.0	-	121.3	119.4	116.5	117.6	-
2821	Plastics materials and resins	75.3	74.9	75.1	75.8	-	43.8	43.5	43.5	43.9	-
2824	Organic fibers, noncellulosic	80.0	78.7	74.1	74.4	-	55.2	54.3	51.9	52.3	-
283	Drugs	200.5	200.3	200.6	203.6	-	99.4	98.9	98.2	99.4	-
2834	Pharmaceutical preparations	157.1	156.8	157.4	159.9	-	76.6	76.1	75.1	76.3	-
284	Soap, cleaners, and toilet goods	146.4	146.2	148.3	151.8	-	91.3	91.4	92.2	95.0	-
2841	Soap and other detergents	44.0	43.0	44.7	45.4	-	28.9	27.7	28.7	29.3	-
2844	Toilet preparations	63.6	64.3	64.9	66.9	-	41.7	42.5	42.5	44.1	-
2842, 3	Polishing, sanitation, and finishing preparations	38.8	38.9	38.7	39.5	-	20.7	21.2	21.0	21.6	-
285	Paints and allied products	61.9	61.6	61.2	62.3	-	30.3	30.1	29.9	30.9	-
286	Industrial organic chemicals	171.9	170.9	162.5	162.8	-	86.4	85.5	83.6	83.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	34.6	34.0	31.5	31.5	-	21.3	20.9	19.1	19.1	-
2861.9	Gum, wood, and industrial organic chemicals, nec.	137.3	136.9	131.0	131.3	-	65.1	64.6	64.5	64.5	-
287	Agricultural chemicals	66.1	63.8	63.1	61.7	-	39.8	37.8	38.7	37.7	-
289	Miscellaneous chemical products	92.0	90.6	89.1	89.8	-	51.7	50.3	50.1	51.0	-
29	PETROLEUM AND COAL PRODUCTS	202.0	203.4	198.2	200.1	200.8	120.9	121.9	120.1	122.1	124.9
291	Petroleum refining	163.7	164.0	159.8	160.3	-	93.7	93.6	92.8	93.3	-
295	Paving and roofing materials	26.6	27.7	27.1	28.4	-	20.1	21.1	20.5	21.8	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	711.1	692.2	715.9	728.7	727.8	545.7	528.8	553.7	565.7	566.1
301	Tires and inner tubes	106.4	101.2	100.8	101.4	-	75.6	71.8	73.3	74.4	-
302	Rubber and plastics footwear	19.7	19.2	19.4	19.7	-	17.1	16.7	16.4	16.7	-
303.4	Reclaimed rubber, and rubber and plastics hose and belting	22.8	22.0	20.8	21.3	-	16.3	15.5	14.4	14.7	-
306	Fabricated rubber products, nec.	99.5	96.7	98.4	100.1	-	75.6	73.0	75.2	76.5	-
307	Miscellaneous plastics products	462.7	453.1	476.5	486.2	-	361.1	351.8	374.4	383.4	-
31	LEATHER AND LEATHER PRODUCTS	228.6	209.6	215.8	219.9	196.1	191.4	174.2	180.0	183.9	162.9
311	Leather tanning and finishing	19.6	17.8	19.4	19.5	-	16.2	14.6	16.2	16.3	-
314	Footwear, except rubber	141.3	128.0	134.5	136.2	-	120.4	109.0	114.8	116.2	-
3143	Men's footwear, except athletic	56.4	50.2	52.2	53.2	-	46.4	41.2	42.1	43.0	-
3144	Women's footwear, except athletic	54.5	50.5	53.2	53.7	-	47.5	44.2	47.4	47.7	-
316	Luggage	14.8	14.3	13.5	14.0	-	11.3	10.3	9.4	9.9	-
317	Handbags and personal leather goods	29.3	27.2	25.9	27.0	-	23.9	22.0	20.8	22.0	-
	TRANSPORTATION AND PUBLIC UTILITIES	5,140	5,089	4,993	5,031	4,992	4,248	4,201	4,115	4,150	4,112
40	RAILROAD TRANSPORTATION	445.0	435.9	385.1	386.7	-	-	-	-	-	-
4011	Class I railroads ²	411.5	403.7	355.3	356.6	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	268.9	222.7	278.3	264.0	-	250.6	205.0	258.8	244.9	-
411	Local and suburban transportation	85.5	83.7	86.9	86.2	-	79.0	77.4	79.8	79.1	-
412	Taxicabs	42.3	40.6	39.7	39.0	-	-	-	-	-	-
413	Intercity highway transportation	38.7	39.8	33.9	34.5	-	35.5	36.6	31.0	31.6	-
415	School buses	82.7	40.5	97.7	84.2	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,223.2	1,217.9	1,188.8	1,217.9	-	1,062.8	1,058.4	1,031.4	1,060.1	-
421.3	Trucking and trucking terminals	1,142.2	1,138.8	1,111.7	1,140.1	-	995.3	992.6	967.5	995.4	-
422	Public warehousing	81.0	79.1	77.1	77.8	-	67.5	65.8	63.9	64.7	-
44	WATER TRANSPORTATION	213.1	210.1	194.9	193.0	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	440.6	447.8	448.5	452.5	-	-	-	-	-	-
451.2	Air transportation	389.8	396.9	396.6	399.9	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	22.6	22.6	22.1	22.5	-	15.4	15.5	15.4	15.9	-
47	TRANSPORTATION SERVICES	220.5	220.9	218.9	222.6	-	-	-	-	-	-
48	COMMUNICATION	1,424.4	1,423.0	1,378.4	1,383.3	-	1,081.0	1,081.6	1,047.0	1,050.0	-
481	Telephone communication	1,078.2	1,075.6	1,009.1	1,010.4	-	795.1	793.9	752.3	752.7	-
483	Radio and television broadcasting	220.2	220.2	230.2	232.6	-	179.4	179.5	182.7	184.7	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	881.5	887.6	878.3	888.9	-	714.3	719.8	707.6	716.5	-
491	Electric services	424.3	427.6	432.6	437.3	-	338.8	341.3	343.4	347.3	-
492	Gas production and distribution	182.1	182.6	175.1	178.0	-	147.7	148.3	140.1	142.7	-
493	Combination utility services	198.9	200.4	196.5	198.5	-	162.3	164.0	159.4	160.9	-
495	Sanitary services	51.3	52.1	49.6	49.9	-	45.2	45.8	44.5	44.7	-
-	WHOLESALE AND RETAIL TRADE	20,573	20,482	20,371	20,608	20,555	17,992	17,903	17,793	18,013	17,955
50,51	WHOLESALE TRADE	5,326	5,303	5,197	5,250	5,253	4,310	4,293	4,178	4,229	4,225
50	WHOLESALE TRADE - DURABLE GOODS	3,118	3,095	3,037	3,064	-	2,508	2,489	2,427	2,452	-
501	Motor vehicles and automotive equipment	407.7	406.6	401.3	406.2	-	329.6	328.5	322.1	326.6	-
502	Furniture and home furnishing	113.2	112.2	115.3	116.7	-	92.9	92.0	94.1	95.7	-
503	Lumber and construction materials	179.5	179.5	186.4	191.7	-	146.7	146.6	152.7	157.5	-
504	Sporting goods, toys, and hobby goods	72.8	72.3	71.9	73.3	-	58.4	58.4	58.0	59.3	-
505	Metals and minerals, except petroleum	142.2	138.8	130.3	130.7	-	112.6	109.5	103.6	103.9	-
506	Electrical goods	432.3	430.2	426.5	427.4	-	345.8	345.1	338.7	339.4	-
507	Hardware, plumbing, and heating equipment	236.3	236.1	233.9	236.6	-	190.9	190.9	188.4	191.3	-

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				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,351.4	1,342.6	1,295.8	1,304.5	-	1,079.4	1,071.5	1,023.1	1,031.0	-
509	Miscellaneous durable goods	182.4	176.3	175.5	177.2	-	151.5	146.3	145.8	147.4	-
51	WHOLESALE TRADE-NONDURABLE GOODS ..	2,208	2,208	2,160	2,186	-	1,802	1,804	1,751	1,777	-
511	Paper and paper products	157.1	158.3	158.7	160.4	-	126.3	127.4	127.7	129.8	-
512	Drugs, proprietaries, and sundries	154.7	155.5	153.1	154.0	-	130.1	131.2	128.0	128.6	-
513	Apparel, piece goods, and notions	171.3	169.6	166.8	168.8	-	133.9	133.2	126.7	128.1	-
514	Groceries and related products	685.8	687.4	653.7	673.2	-	590.6	592.3	559.1	579.6	-
516	Chemicals and allied products	135.0	133.9	132.8	134.6	-	96.1	95.6	91.4	92.8	-
517	Petroleum and petroleum products	227.5	227.5	217.3	219.9	-	172.2	171.6	164.9	167.3	-
518	Beer, wine, and distilled beverages	146.9	148.9	145.4	147.4	-	122.5	124.2	121.1	123.1	-
519	Miscellaneous nondurable goods	393.6	392.6	395.2	393.5	-	320.2	320.1	320.3	319.2	-
52-59	RETAIL TRADE	15,247	15,179	15,174	15,358	15,302	13,682	13,610	13,615	13,784	13,730
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	599.7	595.0	604.8	615.7	-	505.9	501.3	510.7	520.5	-
521	Lumber and other building materials	305.9	306.1	310.9	321.3	-	258.6	259.0	263.5	273.4	-
525	Hardware stores	148.9	148.1	151.0	153.6	-	127.0	126.4	128.1	130.6	-
53	GENERAL MERCHANDISE STORES	2,150.6	2,156.0	2,120.0	2,141.8	-	1,993.9	2,000.7	1,980.0	2,003.5	-
531	Department stores	1,809.0	1,815.2	1,804.0	1,820.0	-	1,684.3	1,692.4	1,695.7	1,713.3	-
533	Variety stores	225.1	225.0	206.1	208.1	-	208.9	208.0	189.8	191.7	-
539	Misc. general merchandise stores	116.5	115.8	109.9	113.7	-	100.7	100.3	94.5	98.5	-
54	FOOD STORES	2,466.3	2,471.5	2,473.5	2,492.9	-	2,286.0	2,291.1	2,295.4	2,315.2	-
541	Grocery stores	2,159.5	2,167.8	2,167.6	2,183.7	-	2,006.4	2,015.3	2,019.3	2,036.2	-
542	Meat markets and freezer provisioners	57.3	57.8	59.7	60.0	-	-	-	-	-	-
546	Retail bakeries	130.8	126.9	133.0	134.8	-	121.0	116.8	121.2	123.0	-
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,637.7	1,639.1	1,606.5	1,624.4	-	1,381.2	1,383.7	1,350.4	1,367.4	-
551.2	New and used car dealers	738.7	739.8	741.3	749.7	-	605.6	607.4	608.4	615.6	-
553	Auto and home supply stores	262.6	262.8	256.8	260.4	-	225.9	226.3	221.7	224.9	-
554	Gasoline service stations	554.4	554.0	528.0	532.2	-	482.9	483.1	455.2	460.2	-
56	APPAREL AND ACCESSORY STORES	933.7	922.4	935.3	940.4	-	794.1	781.8	790.0	794.2	-
561	Men's and boys' clothing and furnishings	119.1	118.3	115.9	117.1	-	101.2	99.9	97.6	98.4	-
562	Women's ready-to-wear stores	338.6	334.3	344.0	345.0	-	291.3	287.1	293.2	293.5	-
565	Family clothing stores	171.5	170.5	168.6	169.4	-	149.6	148.3	146.5	147.4	-
566	Shoe stores	202.1	198.1	198.8	198.8	-	164.3	160.3	161.5	161.2	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	573.9	572.5	575.5	580.0	-	473.4	472.9	475.1	479.3	-
571	Furniture and home furnishings stores	347.9	345.7	346.3	349.7	-	287.4	285.7	286.3	289.6	-
572	Household appliance stores	75.8	76.9	72.5	72.7	-	63.6	65.0	61.8	62.0	-
573	Radio, television, and music stores	150.2	149.9	156.7	157.6	-	122.4	122.2	127.0	127.7	-
58	EATING AND DRINKING PLACES	4,985.2	4,932.8	4,956.4	5,061.3	-	4,595.9	4,536.6	4,567.6	4,659.4	-
59	MISCELLANEOUS RETAIL	1,899.4	1,889.9	1,901.8	1,901.7	-	1,652.0	1,642.0	1,645.9	1,644.3	-
591	Drug stores and proprietary stores	490.4	489.6	484.7	489.3	-	439.3	438.2	429.6	434.2	-
592	Liquor stores	127.1	128.6	125.1	126.8	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	606.9	605.8	614.5	617.7	-	518.3	517.1	522.8	524.8	-
596	Nonstore retailers	245.2	243.7	245.6	246.0	-	226.0	224.9	226.2	226.0	-
598	Fuel and ice dealers	99.3	98.1	97.6	97.1	-	82.3	81.0	80.7	80.1	-
599	Retail stores, nec.	268.8	261.3	271.5	261.1	-	226.0	219.1	228.0	217.8	-
	FINANCE, INSURANCE, AND REAL										
	ESTATE ²	5,395	5,411	5,435	5,506	5,542	4,048	4,060	4,049	4,114	4,142
60	BANKING	1,668.1	1,671.4	1,652.0	1,669.5	-	1,253.1	1,254.1	1,231.0	1,247.6	-
602	Commercial and stock savings banks	1,519.4	1,521.5	1,499.5	1,515.1	-	1,134.1	1,134.3	1,110.2	1,125.2	-
61	CREDIT AGENCIES OTHER THAN BANKS	580.1	581.0	608.8	616.3	-	438.3	439.1	461.3	468.5	-
612	Savings and loan associations	268.2	269.4	289.9	293.6	-	204.7	205.9	221.9	225.6	-
614	Personal credit institutions	196.2	195.0	194.2	195.5	-	150.2	149.0	147.9	149.5	-
62	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	272.9	273.9	302.0	308.8	-	-	-	-	-	-
621	Security brokers and dealers	222.8	223.3	243.0	248.5	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,243.1	1,243.0	1,231.0	1,233.6	-	849.4	848.6	834.6	837.8	-
631	Life insurance	548.2	549.0	540.1	539.7	-	338.1	338.0	328.9	329.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	143.1	142.7	143.5	144.3	-	113.6	113.2	114.3	115.2	-
633	Fire, marine, and casualty insurance	481.0	480.3	471.3	471.2	-	343.3	343.0	331.5	331.2	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	478.8	477.6	479.0	480.4	-	-	-	-	-	-
65	REAL ESTATE	998.1	1,008.7	1,008.1	1,043.0	-	-	-	-	-	-
651	Real estate operators and lessors	488.7	495.5	500.0	516.9	-	-	-	-	-	-
653	Real estate agents and managers	365.0	369.1	361.4	374.8	-	-	-	-	-	-
655	Subdividers and developers	125.2	125.0	126.4	130.2	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC	18.1	17.9	17.0	16.9	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES	136.1	137.7	137.3	137.9	-	-	-	-	-	-
-	SERVICES	19,195	19,239	19,624	19,817	19,960	17,058	17,088	17,391	17,569	17,694
70	HOTELS AND OTHER LODGING PLACES	1,181.1	1,220.9	1,121.6	1,166.5	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	1,135.9	1,146.8	1,086.1	1,121.1	-	1,045.0	1,053.3	989.0	1,021.0	-
72	PERSONAL SERVICES	923.2	912.5	921.8	919.9	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	349.5	346.7	346.1	348.3	-	312.0	309.4	307.2	309.5	-
723	Beauty shops	285.0	284.0	296.6	297.4	-	262.6	260.9	274.1	274.9	-
726	Funeral service and crematories	71.7	72.1	72.2	72.8	-	-	-	-	-	-
73	BUSINESS SERVICES	3,308.3	3,323.9	3,522.7	3,584.8	-	2,884.7	2,899.9	3,049.1	3,109.6	-
731	Advertising	162.0	162.1	165.8	167.2	-	125.0	125.0	123.4	124.7	-
732	Credit reporting and collection	74.6	74.9	79.1	80.5	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	134.2	134.4	139.1	142.6	-	-	-	-	-	-
734	Services to buildings	526.5	527.5	538.8	552.1	-	479.3	480.6	489.5	502.9	-
736	Personnel supply services	567.7	576.7	679.8	697.1	-	-	-	-	-	-
737	Computer and data processing services	361.1	362.0	392.4	397.4	-	295.8	296.3	323.9	328.5	-
75	AUTO REPAIR, SERVICES, AND GARAGES	585.2	583.2	585.7	593.2	-	495.3	493.1	495.2	501.7	-
753	Automotive repair shops	364.9	365.8	366.0	369.0	-	304.5	305.6	305.6	308.7	-
76	MISCELLANEOUS REPAIR SERVICES	284.9	283.3	266.5	268.8	-	240.8	239.4	220.0	222.4	-
78	MOTION PICTURES	218.5	225.4	207.5	220.0	-	187.5	195.3	179.9	191.6	-
781	Motion picture production and services	82.0	83.3	80.6	84.5	-	65.2	67.8	67.3	70.4	-
783	Motion picture theaters	125.8	131.6	116.6	125.0	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	907.5	936.1	889.7	960.2	-	827.7	855.0	815.6	882.5	-
80	HEALTH SERVICES	5,825.2	5,842.7	5,921.2	5,979.5	-	5,219.3	5,234.4	5,310.4	5,365.5	-
801	Offices of physicians	825.8	825.0	851.2	861.0	-	678.2	675.4	716.6	726.6	-
802	Offices of dentists	384.7	387.6	405.0	410.2	-	339.9	343.2	358.1	362.9	-
806	Nursing and personal care facilities	1,069.7	1,072.3	1,092.1	1,104.9	-	968.4	971.5	988.1	1,000.2	-
806	Hospitals	3,029.4	3,040.2	3,022.2	3,043.6	-	2,781.8	2,792.6	2,774.1	2,794.1	-
81	LEGAL SERVICES	575.7	582.5	588.2	612.7	-	488.1	494.4	496.2	517.6	-
82	EDUCATIONAL SERVICES	1,097.9	1,010.7	1,244.0	1,115.4	-	-	-	-	-	-
821	Elementary and secondary schools	319.3	285.1	336.5	322.6	-	-	-	-	-	-
822	Colleges and universities	659.6	610.3	779.4	665.8	-	-	-	-	-	-
83	SOCIAL SERVICES	1,152.2	1,173.1	1,245.4	1,249.1	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,533.1	1,540.4	1,522.2	1,520.6	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	1,058.4	1,061.9	1,045.8	1,066.4	-	866.7	867.3	858.1	874.0	-
891	Engineering and architectural services	583.3	583.2	568.0	582.3	-	479.6	479.3	470.1	484.5	-
893	Accounting, auditing, and bookkeeping	343.6	347.1	355.2	355.9	-	277.1	277.8	285.1	285.1	-
	GOVERNMENT**	15,982	15,009	16,056	15,849	15,146	-	-	-	-	-
	FEDERAL GOVERNMENT**⁴	2,786	2,794	2,756	2,792	2,794	-	-	-	-	-
	Executive, by agency** ⁴	2,730.0	2,737.6	2,700.0	2,728.1	-	-	-	-	-	-
	Department of Defense	961.0	964.5	951.8	-	-	-	-	-	-	-
	Postal Service	664.9	665.6	658.9	-	-	-	-	-	-	-
	Other executive agencies	1,104.1	1,107.5	1,089.3	-	-	-	-	-	-	-
	Legislative	40.5	40.9	39.5	-	-	-	-	-	-	-
	Judicial	15.6	15.7	16.1	-	-	-	-	-	-	-

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				
		June 1982	July 1982	May 1983	June 1983P /	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	FEDERAL GOVERNMENT--Continued										
	Federal Government, by Industry										
-	Manufacturing activities	136.0	136.5	138.0	138.8	-	-	-	-	-	
3731	Shipbuilding and repairing	82.6	83.1	83.4	83.6	-	-	-	-	-	
-	Transportation and public utilities, except										
-	Postal Service	42.1	41.8	39.9	39.7	-	-	-	-	-	
-	Services	400.0	405.4	393.1	399.4	-	-	-	-	-	
806	Federal government hospitals	237.2	239.8	235.9	236.8	-	-	-	-	-	
	STATE AND LOCAL GOVERNMENT	13,196	12,215	13,300	13,057	12,352	-	-	-	-	
	State government	3,550.5	3,427.8	3,677.8	3,532.2	-	-	-	-	-	
806	State government hospitals	497.6	498.8	480.0	478.2	-	-	-	-	-	
82	State education	1,326.4	1,186.8	1,518.9	1,344.6	-	-	-	-	-	
-	General administration including executive, legislative, and judicial functions	1,100.0	1,109.8	1,074.0	1,091.7	-	-	-	-	-	
-	Local government	9,645.5	8,786.7	9,622.1	9,525.1	-	-	-	-	-	
-	Transportation and public utilities	530.8	532.7	532.6	538.7	-	-	-	-	-	
806	Local government hospitals	634.8	637.3	636.8	642.2	-	-	-	-	-	
82	Local education	5,274.1	4,231.4	5,350.5	5,073.2	-	-	-	-	-	
-	General administration including executive, legislative, and judicial functions	2,892.6	3,042.0	2,804.3	2,948.3	-	-	-	-	-	

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 1982 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustments" under the Establishment Data section of the Explanatory Notes.

**Corrected data for April 1983

Industry	All employees
Total	89,005
Government	16,021
Federal Government	2,735
Executive, by agency	2,679.9
Department of Defense	940.9
Postal Service	658.4
Other executive agencies	1,080.6
Legislative	39.2
Judicial	16.0

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	Apr. 1982	May 1982	Mar. 1983	Apr. 1983	May 1983
	TOTAL	39,207	39,343	39,045	39,310 ^c	39,534
	PRIVATE SECTOR	31,305	31,451	31,299	31,576	31,786
	MINING	141	139	126	125	123
10	METAL MINING	7.4	6.7	5.6	5.6	5.6
11, 12	COAL MINING	12.0	12.0	11.2	10.9	11.0
13	OIL AND GAS EXTRACTION	111.9	111.1	100.3	99.5	98.1
131, 2	Crude petroleum, natural gas, and natural gas liquids.....	65.7	65.8	65.8	65.1	65.1
138	Oil and gas field services.....	46.2	45.3	34.5	34.4	33.0
14	NONMETALLIC MINERALS, EXCEPT FUELS	9.4	9.5	8.5	8.5	8.6
142	Crushed and broken stone.....	2.7	2.8	2.7	2.7	2.8
144	Sand and gravel.....	3.0	3.1	2.8	2.8	2.9
-	CONSTRUCTION	377	379	372	376	381
15	GENERAL BUILDING CONTRACTORS	119.8	120.2	121.7	122.6	124.6
152	Residential building construction.....	64.8	65.4	67.7	68.1	69.9
153	Operative builders.....	13.4	13.1	13.3	13.8	14.0
154	Nonresidential building construction.....	41.6	41.7	40.7	40.7	40.7
16	HEAVY CONSTRUCTION CONTRACTORS	62.5	62.8	59.5	60.3	61.4
161	Highway and street construction.....	14.2	14.3	12.5	13.3	14.9
162	Heavy construction, except highway.....	48.3	48.5	47.0	47.0	46.5
17	SPECIAL TRADE CONTRACTORS	195.1	195.6	191.1	193.0	195.3
171	Plumbing, heating, air conditioning.....	52.3	52.2	52.0	52.1	52.6
172	Painting, paper hanging, decorating.....	11.3	11.4	10.8	10.7	11.0
173	Electrical work.....	37.8	38.1	38.1	38.3	38.5
174	Masonry, stonework, and plastering.....	20.6	21.3	20.2	21.1	21.4
175	Carpentering and flooring.....	13.1	12.7	13.5	13.6	13.7
176	Roofing and sheet metal work.....	12.5	12.7	12.7	12.9	13.3
	MANUFACTURING	6,040	6,042	5,841	5,886	5,942
24, 25, 32-39	DURABLE GOODS	2,885	2,878	2,740	2,766	2,795
20-23, 26-31	NONDURABLE GOODS	3,155	3,164	3,101	3,120	3,147
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	89.6	91.4	93.0	95.5	98.4
241	Logging camps and logging contractors.....	5.3	5.5	5.5	5.6	5.9
242	Sawmills and planing mills.....	16.1	16.2	17.6	17.7	18.3
2421	Sawmills and planing mills, general.....	11.2	11.3	12.2	12.3	12.7
243	Millwork, plywood, and structural members.....	35.2	36.6	37.6	38.9	40.4
244	Wood containers.....	6.4	6.4	5.7	5.9	6.1
245	Wood buildings and mobile homes.....	7.4	7.7	7.5	8.0	8.4
249	Miscellaneous wood products.....	19.2	19.0	19.1	19.4	19.3
25	FURNITURE AND FIXTURES	131.5	130.4	131.0	133.1	133.6
251	Household furniture.....	91.0	89.7	90.2	91.8	91.5
2511	Wood household furniture.....	38.7	38.3	38.0	39.0	38.9
2512	Upholstered household furniture.....	29.1	29.4	30.1	30.6	31.0
2515	Mattresses and bedsprings.....	7.8	7.8	8.0	8.2	8.2
252	Office furniture.....	13.8	14.0	13.1	13.1	13.5
253	Public building and related furniture.....	5.1	4.9	4.6	4.6	4.7
254	Partitions and fixtures.....	10.1	10.1	10.0	10.4	10.4
259	Miscellaneous furniture and fixtures.....	11.5	11.7	13.1	13.2	13.5
32	STONE, CLAY, AND GLASS PRODUCTS	115.7	115.9	106.5	108.7	110.1
322	Glass and glassware, pressed or blown.....	36.6	36.2	32.9	32.9	33.1
3221	Glass containers.....	20.9	21.0	18.6	18.3	18.3
3229	Pressed and blown glass, nec.....	15.7	15.2	14.3	14.6	14.8
323	Products of purchased glass.....	12.0	12.1	11.7	12.1	12.5
324	Cement, hydraulic.....	1.6	1.6	1.5	1.5	1.5
325	Structural clay products.....	5.3	5.5	5.3	5.5	5.7
326	Pottery and related products.....	13.7	13.8	12.9	13.7	13.6
327	Concrete, gypsum, and plaster products.....	14.6	14.9	14.1	14.4	14.8
329	Misc. nonmetallic mineral products.....	28.8	28.7	25.2	25.7	26.0
33	PRIMARY METAL INDUSTRIES	107.8	106.9	95.5	95.7	96.9
331	Blast furnace and basic steel products.....	32.9	32.1	26.0	25.7	26.0
3312	Blast furnaces and steel mills.....	23.7	22.8	18.6	18.3	18.5
332	Iron and steel foundries.....	16.2	15.8	12.6	12.7	13.1

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Apr. 1982	May 1982	Mar. 1983	Apr. 1983	May 1983
PRIMARY METAL INDUSTRIES—Continued						
3321	Gray iron foundries	7.1	6.9	5.8	5.8	6.1
3322	Malleable iron foundries .....	.9	.9	.8	.8	.8
3325	Steel foundries, nec	4.2	4.0	3.1	3.2	3.3
333	Primary nonferrous metals	4.2	4.0	3.3	3.3	3.3
3334	Primary aluminum	1.9	1.8	1.3	1.3	1.3
335	Nonferrous rolling and drawing	34.8	35.2	33.9	34.3	34.5
3351	Copper rolling and drawing	3.2	3.2	3.2	3.2	3.3
3353	Aluminum sheet, plate, and foil	3.1	3.1	3.1	3.2	3.2
3357	Nonferrous wire drawing and insulating	21.2	21.5	20.2	20.3	20.3
336	Nonferrous foundries	14.1	14.2	14.6	14.7	15.0
3361	Aluminum foundries	7.5	7.6	7.5	7.5	7.7
34	FABRICATED METAL PRODUCTS	307.3	305.2	295.6	298.7	301.6
341	Metal cans and shipping containers	11.3	11.3	10.4	10.5	10.6
3411	Metal cans	9.5	9.5	8.6	8.7	8.8
342	Cutlery, hand tools, and hardware	48.5	47.5	46.9	47.0	47.2
3423, 5	Hand and edge tools, and hand saws and blades	14.6	13.9	13.4	13.2	13.1
3429	Hardware, nec	28.1	27.8	28.0	28.3	28.5
343	Plumbing and heating, except electric	15.3	15.2	15.8	16.0	15.8
344	Fabricated structural metal products	66.3	66.2	62.9	63.5	64.5
3441	Fabricated structural metal	7.5	7.3	6.4	6.3	6.2
3442	Metal doors, sash, and trim	18.2	18.7	20.0	20.5	21.2
3443	Fabricated plate work (boiler shops)	17.6	17.2	14.7	14.4	14.3
3444	Sheet metal work	14.5	14.3	13.8	14.1	14.4
345	Screw machine products, bolts, etc.	21.0	20.6	19.1	19.2	19.6
3451	Screw machine products	10.4	10.2	9.5	9.6	9.9
3452	Bolts, nuts, rivets, and washers	10.6	10.4	9.6	9.6	9.7
346	Metal forgings and stampings	47.2	47.4	45.3	46.4	46.6
3462	Iron and steel forgings	3.9	3.9	3.1	3.2	3.1
3465	Automotive stampings	11.6	12.3	11.5	12.0	12.3
3469	Metal stampings, nec	29.4	28.8	28.5	29.1	29.0
347	Metal services, nec	22.8	22.8	22.6	22.9	23.6
3471	Plating and polishing	17.0	17.0	16.9	17.1	17.8
3479	Metal coating and allied services	5.8	5.8	5.7	5.8	5.8
348	Ordnance and accessories, nec	18.2	18.4	18.9	19.0	19.0
349	Misc. fabricated metal products	56.7	55.8	53.7	54.2	54.7
3494	Valves and pipe fittings	21.5	20.9	19.4	19.4	19.6
3496	Misc. fabricated wire products	13.7	13.7	13.2	13.3	13.5
35	MACHINERY, EXCEPT ELECTRICAL	496.7	493.1	446.0	447.0	451.2
351	Engines and turbines	21.3	21.5	18.0	17.9	19.1
3511	Turbines and turbine generator sets	6.3	6.3	5.6	5.5	5.5
3519	Internal combustion engines, nec	15.0	15.2	12.4	12.4	13.6
352	Farm and garden machinery	25.1	24.7	21.3	21.1	20.9
3523	Farm machinery and equipment	18.9	18.7	15.4	15.5	15.5
353	Construction and related machinery	52.6	51.3	35.5	35.1	36.0
3531	Construction machinery	13.7	13.4	8.3	8.2	9.5
3533	Oil field machinery	20.7	20.0	13.1	12.8	12.4
354	Metalworking machinery	51.8	50.5	45.3	45.2	45.6
3541	Machine tools, metal cutting types	9.5	9.2	7.0	6.9	6.8
3544	Special dies, tools, jigs, and fixtures	14.5	14.4	14.0	14.0	14.2
3545	Machine tool accessories	12.2	11.9	10.4	10.3	10.5
355	Special industry machinery	27.4	27.1	24.8	24.7	25.0
3551	Food products machinery	5.2	5.2	4.7	4.8	4.7
3552	Textile machinery	4.4	4.4	3.8	3.7	3.8
3555	Printing trades machinery	6.5	6.5	6.6	6.6	6.7
356	General industrial machinery	60.4	59.6	49.9	50.0	50.2
3561	Pumps and pumping equipment	11.2	10.8	9.5	9.4	9.2
3562	Ball and roller bearings	13.2	12.9	10.4	10.6	10.7
357	Office and computing machines	176.3	177.1	177.2	178.3	178.9
3573	Electronic computing equipment	151.0	151.0	152.8	153.7	154.2
358	Refrigeration and service machinery	35.8	35.2	33.1	33.8	34.1
3585	Refrigeration and heating equipment	24.4	23.9	22.4	22.7	23.2
359	Misc. machinery, except electrical	46.0	46.1	40.9	40.9	41.4
3599	Machinery, except electrical, nec	36.9	36.9	33.0	32.7	32.8
36	ELECTRIC AND ELECTRONIC EQUIPMENT	863.5	863.4	829.0	836.3	845.7
361	Electric distributing equipment	44.7	43.8	40.7	41.6	42.0
3612	Transformers	18.4	18.2	16.3	16.8	16.9
3613	Switchgear and switchboard apparatus	26.3	25.6	24.4	24.8	25.1
362	Electrical industrial apparatus	79.4	79.7	69.6	69.6	69.9
3621	Motors and generators	41.0	41.0	37.3	37.7	38.2
3622	Industrial controls	27.1	27.5	22.4	22.1	21.9
363	Household appliances	51.3	51.4	48.4	49.2	50.9
3632	Household refrigerators and freezers	7.3	7.5	5.0	5.6	5.7
3633	Household laundry equipment	3.5	3.6	4.3	4.5	4.6
3634	Electric housewares and fans	24.1	24.2	23.5	22.9	24.1
364	Electric lighting and wiring equipment	86.3	84.6	80.2	81.3	81.5
3641	Electric lamps	19.7	19.5	15.4	15.5	15.6

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Apr. 1982	May 1982	Mar. 1983	Apr. 1983	May 1983
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	37.9	37.0	36.3	36.7	37.0
365	Radio and TV receiving equipment	48.6	49.1	45.7	46.0	46.8
3651	Radio and TV receiving sets	36.4	36.4	34.3	34.4	34.7
366	Communication equipment	217.6	217.3	212.1	211.8	212.3
3661	Telephone and telegraph apparatus	73.6	73.0	66.1	65.6	65.5
3662	Radio and TV communication equipment	144.0	144.3	146.0	146.2	146.8
367	Electronic components and accessories	281.7	283.4	278.7	282.8	287.8
3671-3	Electronic tubes	15.4	15.6	16.3	16.5	16.6
3674	Semiconductors and related devices	102.3	104.0	104.7	106.8	108.5
3679	Electronic components, nec	116.8	116.9	115.4	116.8	119.0
369	Misc. electrical equipment and supplies	53.9	54.1	53.6	54.0	54.5
3694	Engine electrical equipment	22.9	22.8	22.8	23.2	23.6
TRANSPORTATION EQUIPMENT						
37	Motor vehicles and equipment	289.0	288.6	286.0	290.2	294.6
371	Motor vehicles and equipment	100.2	103.0	100.8	104.1	107.5
3711	Motor vehicles and car bodies	34.4	36.3	37.4	39.2	41.4
3713	Truck and bus bodies	3.3	3.3	2.8	3.0	3.0
3714	Motor vehicle parts and accessories	59.0	59.9	57.0	58.0	59.0
372	Aircraft and parts	117.4	115.6	112.2	112.0	111.9
3721	Aircraft	65.0	63.8	62.0	62.0	61.7
3724	Aircraft engines and engine parts	25.7	25.4	24.5	24.4	24.7
3728	Aircraft equipment, nec	26.7	26.4	25.7	25.6	25.5
373	Ship and boat building and repairing	23.8	24.2	23.4	23.7	24.2
3731	Ship building and repairing	17.6	17.9	17.3	16.9	16.9
374	Railroad equipment	4.2	4.0	3.2	3.2	3.2
376	Guided missiles, space vehicles, parts	29.9	30.2	32.6	32.9	33.3
3761	Guided missiles and space vehicles	24.4	24.8	26.7	26.9	27.2
379	Miscellaneous transportation equipment	7.4	7.4	8.7	9.0	9.1
INSTRUMENTS AND RELATED PRODUCTS						
38	Engineering and scientific instruments	306.8	306.8	289.8	289.8	289.7
381	Engineering and scientific instruments	26.0	26.0	24.1	24.2	24.3
382	Measuring and controlling devices	106.4	106.1	100.0	100.2	99.3
3822	Environmental controls	21.0	21.3	21.1	21.3	21.7
3823	Process control instruments	20.6	20.4	17.8	17.6	17.6
3825	Instruments to measure electricity	47.6	47.2	45.5	45.8	44.4
383	Optical instruments and lenses	11.9	12.2	11.0	10.9	10.9
384	Medical instruments and supplies	87.3	86.9	85.6	85.2	85.7
3841	Surgical and medical instruments	42.2	42.3	41.9	42.1	42.4
3842	Surgical appliances and supplies	37.4	36.9	36.8	36.3	36.6
385	Ophthalmic goods	23.5	23.7	21.8	22.1	22.4
386	Photographic equipment and supplies	40.9	41.2	36.7	36.6	36.8
387	Watches, clocks, and watchcases	10.8	10.7	10.6	10.6	10.3
MISCELLANEOUS MANUFACTURING INDUSTRIES						
39	Jewelry, silverware, and plated ware	177.4	176.4	167.5	171.0	173.5
391	Jewelry, silverware, and plated ware	24.6	24.6	25.0	25.2	25.3
393	Musical instruments	9.0	8.9	8.6	8.5	8.4
394	Toys and sporting goods	58.0	58.3	53.0	55.3	56.7
3942, 4	Dolls, games, toys, and children's vehicles	31.5	31.9	28.4	30.6	32.2
3949	Sporting and athletic goods, nec	26.5	26.4	24.6	24.7	24.5
395	Pens, pencils, office and art supplies	17.4	17.1	15.7	15.9	16.1
396	Costume jewelry and notions	21.8	22.1	21.0	21.1	21.8
399	Miscellaneous manufactures	46.6	45.4	44.2	45.0	45.2
NONDURABLE GOODS						
FOOD AND KINDRED PRODUCTS						
20	Meat products	459.2	469.6	468.7	470.8	479.2
201	Meat products	112.5	115.0	111.4	112.5	113.6
2011	Meat packing plants	26.7	27.3	26.0	26.0	26.2
2013	Sausages and other prepared meats	21.1	21.6	21.1	20.9	21.0
2016	Poultry dressing plants	57.3	58.5	56.9	58.1	58.7
202	Dairy products	35.3	36.1	34.6	34.6	35.4
2026	Fluid milk	15.9	16.1	15.0	15.0	15.2
203	Preserved fruits and vegetables	82.2	85.6	82.7	84.6	87.2
2032	Canned specialties	7.7	7.8	7.8	7.8	7.8
2033	Canned fruits and vegetables	22.9	24.4	21.6	23.0	23.7
2037	Frozen fruits and vegetables	18.4	20.0	19.4	19.4	21.3
204	Grain mill products	27.9	27.7	28.7	28.6	28.4
205	Bakery products	57.8	58.0	58.6	58.6	59.2
2051	Bread, cake, and related products	38.2	38.9	38.0	38.2	38.8
2052	Cookies and crackers	19.6	19.1	20.6	20.4	20.4
206	Sugar and confectionery products	35.7	36.1	42.7	40.9	41.6
207	Fats and oils	5.3	5.4	5.1	5.1	5.0
208	Beverages	42.8	43.3	41.2	41.5	41.7
2082	Malt beverages	8.6	9.0	7.8	8.0	8.0
2086	Bottled and canned soft drinks	18.7	18.9	18.6	18.6	18.8
209	Misc. foods and kindred products	59.7	62.4	63.7	64.4	67.1
TOBACCO MANUFACTURES						
21	Cigarettes	21.7	21.6	21.4	20.7	20.3
211	Cigarettes	14.4	14.1	13.3	13.1	13.1

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Apr. 1982	May 1982	Mar. 1983	Apr. 1983	May 1983
22	TEXTILE MILL PRODUCTS	366.9	362.4	344.9	348.5	350.8
221	Weaving mills, cotton	58.8	57.3	53.3	53.2	53.1
222	Weaving mills, synthetics	42.2	39.1	36.4	36.3	36.9
223	Weaving and finishing mills, wool	7.0	6.8	6.5	6.6	6.7
224	Narrow fabric mills	13.8	13.6	12.5	12.7	12.6
225	Knitting mills	130.4	132.0	127.4	129.7	131.0
2251	Women's hosiery, except socks	23.6	24.4	25.0	25.4	25.6
2252	Hosiery, nec	22.2	22.2	22.3	22.5	22.7
2253	Knit outerwear mills	45.7	46.8	41.7	42.8	43.4
2254	Knit underwear mills	20.8	21.0	21.9	22.2	22.4
2257	Circular knit fabric mills	10.5	10.3	9.9	10.0	10.0
226	Textile finishing, except wool	20.3	20.5	19.1	19.2	19.5
2261	Finishing plants, cotton	9.2	9.7	8.8	8.8	8.8
2262	Finishing plants, synthetic	5.4	5.3	4.8	4.7	4.9
227	Floor covering mills	20.5	20.6	20.0	20.6	20.5
228	Yarn and thread mills	56.1	55.2	53.4	53.9	54.1
2281	Yarn mills, except wool	36.0	35.0	34.9	35.3	35.6
2282	Throwing and winding mills	10.1	10.0	9.6	9.7	9.7
229	Miscellaneous textile goods	17.8	17.3	16.3	16.3	16.4
23	APPAREL AND OTHER TEXTILE PRODUCTS	945.9	947.9	927.1	929.8	938.3
231-	Men's and boys' suits and coats	58.5	58.4	51.3	52.2	53.5
232	Men's and boys' furnishings	273.2	275.9	267.3	271.5	276.0
2321	Men's and boys' shirts and nightwear	81.4	81.3	77.0	78.5	79.7
2327	Men's and boys' separate trousers	55.4	56.0	54.5	55.0	55.4
2328	Men's and boys' work clothing	74.9	75.9	75.5	77.8	80.0
233	Women's and misses' outerwear	332.3	331.1	331.8	327.3	325.7
2331	Women's and misses' blouses and waists	54.9	55.6	56.4	54.7	55.3
2335	Women's and misses' dresses	117.4	112.7	112.7	110.9	107.2
2337	Women's and misses' suits and coats	40.8	45.7	43.5	44.3	46.8
2339	Women's and misses' outerwear, nec	119.2	117.1	119.2	117.4	116.4
234	Women's and children's undergarments	73.6	72.0	69.8	70.3	71.0
2341	Women's and children's underwear	60.3	59.7	58.1	58.7	59.1
2342	Brassieres and allied garments	13.3	12.3	11.7	11.6	11.9
236	Children's outerwear	53.3	54.7	52.2	52.0	52.5
2361	Children's dresses and blouses	23.0	23.8	23.0	22.6	23.0
238	Misc. apparel and accessories	38.8	38.3	35.9	35.3	35.5
239	Misc. fabricated textile products	102.7	103.4	106.0	107.9	110.0
2391	Curtains and draperies	17.4	17.8	17.2	17.7	18.2
2392	House furnishings, nec	30.2	29.8	31.8	32.6	32.9
2396	Automotive and apparel trimmings	14.5	15.4	16.7	17.2	17.5
26	PAPER AND ALLIED PRODUCTS	154.0	154.1	148.9	150.9	151.8
261, 2.6	Paper and pulp mills	26.9	27.1	26.0	26.1	26.5
262	Paper mills, except building paper	24.4	24.4	23.5	23.6	23.9
263	Paperboard mills	5.7	5.6	5.2	5.3	5.3
264	Misc. converted paper products	76.9	76.6	75.3	76.2	76.2
265	Paperboard containers and boxes	44.5	44.8	42.4	43.3	43.8
27	PRINTING AND PUBLISHING	516.5	515.3	516.8	519.4	519.6
271	Newspapers	162.0	162.3	162.6	163.4	164.9
272	Periodicals	57.5	57.3	58.6	58.5	58.2
273	Books	56.1	55.6	53.8	53.6	52.5
274	Miscellaneous publishing	28.0	27.7	29.8	30.2	29.6
275	Commercial printing	137.5	137.1	136.5	138.2	138.5
2751	Commercial printing, letterpress	52.0	51.7	50.1	51.1	51.5
2752	Commercial printing, lithographic	78.8	78.9	80.1	80.7	80.7
276	Manifold business forms	15.2	15.2	15.7	15.6	15.7
278	Blankbooks and bookbinding	33.0	32.8	32.2	32.4	32.6
279	Printing trade services	12.9	12.9	14.0	14.2	14.0
28	CHEMICALS AND ALLIED PRODUCTS	281.9	282.1	275.1	274.9	275.9
281	Industrial inorganic chemicals	25.2	25.2	25.1	24.9	25.1
2819	Industrial inorganic chemicals, nec	16.9	16.9	16.8	16.9	17.0
282	Plastics materials and synthetics	42.3	42.0	36.5	36.9	37.4
2821	Plastics materials and resins	11.3	11.1	10.8	11.0	11.1
2824	Organic fibers, noncellulosic	22.4	22.2	18.8	18.7	18.9
283	Drugs	85.5	85.9	86.2	86.4	86.5
2834	Pharmaceutical preparations	71.7	71.6	71.8	71.9	71.6
284	Soap, cleaners, and toilet goods	58.0	57.9	60.8	60.4	60.7
2841	Soap and other detergents	9.4	9.3	10.0	9.8	10.0
2844	Toilet preparations	36.6	36.5	38.4	38.0	38.1
285	Paints and allied products	11.7	11.9	11.5	11.7	11.8
286	Industrial organic chemicals	27.6	27.5	25.9	25.2	25.2
2861,9	Gum, wood, and industrial organic chemicals, nec	23.3	23.1	21.7	21.1	21.1
287	Agricultural chemicals	10.4	10.4	9.2	9.3	9.1
289	Miscellaneous chemical products	21.2	21.3	19.9	20.1	20.1

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Apr. 1982	May 1982	Mar. 1983	Apr. 1983	May 1983
29	PETROLEUM AND COAL PRODUCTS	30.9	31.2	30.2	30.1	30.2
291	Petroleum refining	26.0	26.2	25.4	25.4	25.4
30	RUBBER AND MISC. PLASTICS PRODUCTS	243.8	245.1	241.9	247.9	251.8
301	Tires and inner tubes	9.6	9.5	8.4	8.4	8.4
302	Rubber and plastics footwear	11.7	11.6	10.5	11.1	11.2
303,4	Reclaimed rubber, and rubber and plastics hose and belting	5.6	5.7	5.2	5.2	5.4
306	Fabricated rubber products, nec	34.5	34.3	33.7	34.0	34.3
307	Miscellaneous plastics products	182.4	184.0	184.1	189.2	192.5
31	LEATHER AND LEATHER PRODUCTS	133.8	134.5	126.3	126.9	128.6
311	Leather tanning and finishing	2.8	2.8	2.6	2.7	2.8
314	Footwear, except rubber	91.1	91.2	86.8	87.1	88.8
3143	Men's footwear, except athletic	34.9	33.7	31.4	31.3	31.9
3144	Women's footwear, except athletic	35.7	36.9	35.8	36.2	37.2
316	Luggage	7.7	7.9	7.2	7.4	7.4
317	Handbags and personal leather goods	19.1	19.3	17.2	17.1	17.1
	TRANSPORTATION AND PUBLIC UTILITIES	1,334	1,346	1,321	1,325	1,332
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	71.7	77.8	78.8	78.4	79.6
411	Local and suburban transportation	16.7	16.9	17.4	17.5	17.6
412	Taxicabs	6.4	6.4	6.0	5.8	5.8
413	Intercity highway transportation	4.8	4.9	3.9	4.0	4.3
415	School buses	40.3	45.7	47.5	47.0	47.6
42	TRUCKING AND WAREHOUSING	152.1	152.8	149.1	149.3	151.7
421,3	Trucking and trucking terminals	135.7	136.5	132.5	133.0	135.1
422	Public warehousing	16.4	16.3	16.6	16.3	16.6
44	WATER TRANSPORTATION	26.0	26.6	24.4	24.4	25.3
45	TRANSPORTATION BY AIR	145.9	148.0	147.5	148.8	148.8
451,2	Air transportation	136.5	138.6	137.4	138.8	138.8
46	PIPE LINES, EXCEPT NATURAL GAS	3.3	3.2	2.8	2.8	2.8
47	TRANSPORTATION SERVICES	108.4	109.9	113.3	116.4	119.1
48	COMMUNICATION	633.2	634.5	611.1	610.0	608.6
481	Telephone communication	526.2	525.7	490.8	488.0	486.0
483	Radio and television broadcasting	72.5	74.0	77.9	78.0	78.1
49	ELECTRIC, GAS, AND SANITARY SERVICES	169.8	169.8	174.5	174.7	175.3
491	Electric services	81.3	81.8	85.6	85.9	86.7
492	Gas production and distribution	39.2	39.3	38.7	38.5	38.7
493	Combination utility services	37.4	36.9	37.4	37.5	37.5
495	Sanitary services	6.4	6.2	7.2	7.3	6.7
	WHOLESALE AND RETAIL TRADE	8,917	9,028	8,867	8,971	9,067
50,51	WHOLESALE TRADE	1,395	1,401	1,367	1,370	1,380
50	WHOLESALE TRADE-DURABLE GOODS	771	769	749	752	755
501	Motor vehicles and automotive equipment	88.4	88.6	86.1	86.2	86.9
502	Furniture and home furnishings	44.2	43.8	45.1	46.0	46.2
503	Lumber and construction materials	35.9	35.8	37.2	37.1	37.3
504	Sporting goods, toys, and hobby goods	24.2	24.0	24.7	25.1	25.4
505	Metals and minerals, except petroleum	28.6	28.2	24.7	24.7	24.6
506	Electrical goods	128.2	127.1	125.3	126.1	126.7
507	Hardware, plumbing, and heating equipment	64.5	64.3	63.3	63.1	63.0
508	Machinery, equipment, and supplies	312.1	311.8	299.8	300.4	301.7
509	Miscellaneous durable goods	45.3	45.1	42.3	42.8	42.9
51	WHOLESALE TRADE-NONDURABLE GOODS	624	632	618	618	625
511	Paper and paper products	50.4	50.5	51.8	51.6	51.9
512	Drugs, proprietaries, and sundries	67.4	67.5	68.3	68.1	68.0
513	Apparel, piece goods, and notions	83.7	83.3	81.9	81.8	82.5
514	Groceries and related products	153.4	162.3	143.2	146.7	153.8
516	Chemicals and allied products	36.9	36.7	39.0	38.4	38.5
517	Petroleum and petroleum products	52.9	53.1	50.2	50.3	50.9
518	Beer, wine, and distilled beverages	21.9	21.9	21.7	21.6	21.9
519	Miscellaneous nondurable goods	121.3	121.4	121.6	122.0	120.9

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Apr. 1982	May 1982	Mar. 1983	Apr. 1983	May 1983
52-59	RETAIL TRADE	7,522	7,627	7,500	7,601	7,687
52	BUILDING MATERIALS AND GARDEN SUPPLIES	158.1	161.0	156.9	160.8	164.7
521	Lumber and other building materials	60.5	61.7	63.0	63.9	65.7
525	Hardware stores	54.8	55.3	55.1	55.7	56.8
53	GENERAL MERCHANDISE STORES	1,429.9	1,441.4	1,430.3	1,436.3	1,444.9
531	Department stores	1,182.0	1,191.2	1,207.2	1,211.3	1,216.3
533	Variety stores	173.6	174.8	153.0	155.0	157.2
539	Misc. general merchandise stores	74.3	75.4	70.1	70.0	71.4
54	FOOD STORES	1,057.1	1,071.3	1,085.1	1,086.5	1,100.8
541	Grocery stores	885.3	895.8	910.3	911.3	921.7
542	Meat markets and freezer provisioners	17.3	17.7	17.6	17.7	18.3
546	Retail bakeries	82.2	83.6	85.1	85.9	87.2
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	307.3	309.9	307.3	310.7	314.4
551.2	New and used car dealers	108.0	108.7	108.9	109.4	109.9
553	Auto and home supply stores	47.1	47.8	47.6	48.2	48.5
554	Gasoline service stations	138.0	139.1	136.9	138.0	140.3
56	APPAREL AND ACCESSORY STORES	647.4	649.2	646.5	652.1	647.2
561	Men's and boys' clothing and furnishings	52.3	52.4	51.7	51.9	52.2
562	Women's ready-to-wear stores	298.6	302.8	301.1	303.5	308.0
565	Family clothing stores	130.4	129.7	127.7	126.9	126.6
566	Shoe stores	85.6	84.4	83.6	87.1	88.1
57	FURNITURE AND HOME FURNISHING STORES	198.2	198.4	205.6	205.5	206.4
571	Furniture and home furnishings stores	129.0	129.0	127.8	128.8	130.1
572	Household appliance stores	21.7	21.2	25.8	25.2	25.0
573	Radio, television, and music stores	47.5	48.2	52.0	51.5	51.3
58	EATING AND DRINKING PLACES	2,678.6	2,744.7	2,619.4	2,700.7	2,749.4
59	MISCELLANEOUS RETAIL	1,044.9	1,050.9	1,048.9	1,048.0	1,058.9
591	Drug stores and proprietary stores	310.9	309.6	307.4	307.5	308.7
592	Liquor stores	34.0	34.2	33.9	34.0	33.6
594	Miscellaneous shopping goods stores	366.8	370.8	378.5	378.0	382.7
596	Nonstore retailers	153.5	151.7	153.2	150.4	149.4
598	Fuel and ice dealers	23.9	23.9	24.0	23.5	23.3
599	Retail stores, nec	135.1	139.7	129.5	131.5	138.2
	FINANCE, INSURANCE, AND REAL ESTATE	3,184	3,191	3,224	3,244	3,252
60	BANKING	1,168.6	1,170.3	1,174.9	1,175.9	1,176.8
602	Commercial and stock savings banks	1,073.3	1,075.0	1,076.4	1,077.2	1,077.5
61	CREDIT AGENCIES OTHER THAN BANKS	401.2	401.9	418.5	422.2	424.3
612	Savings and loan associations	199.8	200.4	217.7	220.4	221.7
614	Personal credit institutions	129.6	129.6	123.3	123.2	123.2
62	SECURITY, COMMODITY BROKERS, AND SERVICES	117.8	118.6	129.1	130.6	132.3
621	Security brokers and dealers	96.0	96.5	104.6	105.6	107.3
63	INSURANCE CARRIERS	753.5	752.0	739.6	743.1	742.3
631	Life insurance	304.1	304.2	299.2	299.1	298.2
632	Medical service and health insurance	102.6	102.7	103.3	103.4	103.1
633	Fire, marine, and casualty insurance	299.6	298.3	289.5	291.4	290.5
64	INSURANCE AGENTS, BROKERS, AND SERVICE	299.4	301.5	303.2	304.1	303.1
65	REAL ESTATE	361.9	364.2	377.5	386.3	391.4
651	Real estate operators and lessors	154.5	154.6	163.6	170.0	172.5
653	Real estate agents and managers	161.4	163.4	168.5	169.7	170.9
655	Subdividers and developers	32.6	32.8	31.8	32.4	33.3
66	COMBINED REAL ESTATE, INSURANCE, ETC.	11.0	10.9	10.3	10.5	10.4
67	HOLDING AND OTHER INVESTMENT OFFICES	70.3	71.2	70.8	71.3	71.6
-	SERVICES	11,312	11,326	11,548	11,649	11,689
70	HOTELS AND OTHER LODGING PLACES	605.5	619.6	576.0	600.7	610.9
701	Hotels, motels, and tourist courts	589.0	601.3	560.2	584.1	591.8

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Apr. 1982	May 1982	Mar. 1983	Apr. 1983	May 1983
72	PERSONAL SERVICES	663.3	638.9	671.9	672.3	638.2
721	Laundry, cleaning, and garment services	218.8	221.2	215.3	215.9	217.6
723	Beauty shops	255.3	254.3	261.9	262.2	264.8
728	Funeral service and crematories	19.8	19.9	21.3	21.6	21.8
73	BUSINESS SERVICES	1,433.8	1,435.6	1,497.1	1,522.6	1,547.9
731	Advertising	78.3	79.4	83.1	83.6	83.6
732	Credit reporting and collection	52.5	52.9	54.4	55.0	56.3
733	Mailing, reproduction, stenographic	67.7	66.0	67.7	67.4	68.2
734	Services to buildings	198.0	200.2	200.3	199.5	203.4
736	Personnel supply services	358.5	355.0	386.1	408.5	424.2
737	Computer and data processing services	173.7	172.7	186.4	188.1	184.4
75	AUTO REPAIR, SERVICES, AND GARAGES	98.2	99.1	101.7	102.2	103.2
753	Automotive repair shops	48.7	48.8	50.2	50.7	51.2
76	MISCELLANEOUS REPAIR SERVICES	56.8	56.3	54.2	53.9	53.2
78	MOTION PICTURES	80.2	80.2	79.0	81.0	83.4
781	Motion picture production and services	26.5	25.4	28.1	28.2	27.3
783	Motion picture theaters	47.5	48.6	45.0	47.0	50.3
79	AMUSEMENT AND RECREATION SERVICES	311.9	330.2	297.1	325.8	356.3
80	HEALTH SERVICES	4,678.6	4,691.1	4,808.8	4,819.0	4,833.3
801	Offices of physicians	639.2	639.4	660.3	666.2	672.3
802	Offices of dentists	323.3	324.7	341.0	343.0	346.1
805	Nursing and personal care facilities	930.7	937.2	959.5	960.9	966.1
806	Hospitals	2,421.7	2,422.9	2,444.0	2,440.2	2,437.8
81	LEGAL SERVICES	389.2	391.8	414.1	416.2	416.9
82	EDUCATIONAL SERVICES	686.5	671.7	698.2	692.7	673.9
821	Elementary and secondary schools	214.6	217.2	222.2	222.2	224.2
822	Colleges and universities	403.4	385.7	404.7	399.1	377.9
83	SOCIAL SERVICES	866.5	872.8	907.9	917.5	928.3
89	MISCELLANEOUS SERVICES	363.5	354.0	369.3	368.4	362.1
891	Engineering and architectural services	128.2	128.6	126.0	126.1	127.6
893	Accounting, auditing, and bookkeeping	177.7	168.6	187.4	186.5	178.4
	GOVERNMENT	7,902	7,892	7,746	7,734 ^c	7,748
	FEDERAL GOVERNMENT	878	880	899	912 ^c	930
	STATE AND LOCAL GOVERNMENT	7,024	7,012	6,847	6,822	6,818
	State government	1,705.9	1,672.3	1,624.3	1,614.7	1,583.7
	Hospitals	309.7	308.0	305.0	303.8	296.7
	State education	727.0	700.2	717.9	710.0	684.9
	General administration including executive, legislative, and judicial functions	455.0	450.0	392.9	392.1	392.1
	Local government	5,318.2	5,339.3	5,222.4	5,207.4	5,233.8
	Transportation and public utilities	87.9	88.1	89.0	89.2	89.9
	Hospitals	512.8	513.1	517.6	517.4	516.3
	Local education	3,574.4	3,590.7	3,492.1	3,473.9	3,491.8
	General administration including executive, legislative, and judicial functions	958.2	962.4	945.4	946.3	951.5

c = corrected.

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	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^p	July ^p
TOTAL ¹	89,450	89,264	89,235	88,938	88,785	88,665	88,885	88,746	88,814	89,090	89,421	89,832	90,319
GOODS-PRODUCING	23,843	23,672	23,530	23,287	23,131	23,061	23,186	23,049	23,030	23,159	23,347	23,534	23,749
MINING	1,125	1,113	1,100	1,082	1,066	1,053	1,037	1,014	1,006	997	994	1,006	1,016
CONSTRUCTION	3,916	3,893	3,875	3,847	3,843	3,815	3,905	3,790	3,757	3,786	3,860	3,941	3,984
MANUFACTURING	18,802	18,666	18,555	18,358	18,222	18,193	18,244	18,245	18,267	18,376	18,493	18,587	18,749
DURABLE GOODS	11,095	10,961	10,862	10,685	10,577	10,559	10,594	10,608	10,617	10,689	10,788	10,843	10,971
Lumber and wood products	600	601	603	605	608	614	625	631	638	651	662	678	689
Furniture and fixtures	430	433	428	426	427	429	430	427	433	440	446	450	457
Stone, clay, and glass products	578	573	570	565	559	554	557	557	559	565	570	573	575
Primary metal industries	909	890	869	840	823	816	817	810	816	820	828	830	841
Fabricated metal products	1,432	1,416	1,402	1,378	1,362	1,359	1,364	1,364	1,362	1,369	1,379	1,385	1,396
Machinery, except electrical	2,256	2,213	2,184	2,122	2,088	2,066	2,048	2,042	2,030	2,031	2,064	2,067	2,096
Transportation equipment	2,016	2,008	1,992	1,976	1,975	1,957	1,974	1,981	1,988	1,999	2,010	2,030	2,052
Electric and electronic equipment	1,770	1,733	1,724	1,691	1,661	1,696	1,710	1,729	1,723	1,743	1,757	1,760	1,793
Instruments and related products	717	712	710	705	700	695	695	693	691	690	689	686	683
Miscellaneous manufacturing ind.	387	382	380	377	374	373	374	374	377	381	383	384	389
NONDURABLE GOODS	7,707	7,705	7,693	7,673	7,645	7,634	7,650	7,637	7,650	7,687	7,705	7,744	7,778
Food and kindred products	1,639	1,636	1,633	1,636	1,632	1,626	1,626	1,620	1,619	1,633	1,632	1,647	1,636
Tobacco manufactures	67	67	66	66	63	69	69	67	67	66	66	65	65
Textile mill products	741	736	734	733	727	727	726	726	730	733	736	745	750
Apparel and other textile products	1,141	1,151	1,149	1,148	1,141	1,140	1,150	1,148	1,143	1,149	1,153	1,160	1,183
Paper and allied products	660	657	659	653	654	653	653	652	652	654	656	657	661
Printing and publishing	1,266	1,267	1,266	1,265	1,263	1,263	1,266	1,264	1,269	1,274	1,276	1,280	1,286
Chemicals and allied products	1,073	1,074	1,070	1,066	1,064	1,059	1,057	1,056	1,056	1,058	1,058	1,057	1,059
Petroleum and coal products	200	200	202	201	200	199	200	199	199	199	198	198	197
Rubber and misc. plastic products	700	698	696	689	685	685	688	691	699	707	716	721	735
Leather and leather products	220	219	218	216	216	213	215	214	216	214	214	214	206
SERVICE-PRODUCING ¹	65,607	65,592	65,705	65,651	65,654	65,604	65,699	65,697	65,784	65,931	66,074	66,298	66,570
TRANSPORTATION AND PUBLIC UTILITIES	5,075	5,056	5,054	5,033	5,019	5,008	4,979	4,966	4,963	4,988	4,993	4,991	4,977
WHOLESALE AND RETAIL TRADE	20,438	20,410	20,380	20,344	20,320	20,256	20,355	20,343	20,350	20,329	20,356	20,485	20,498
WHOLESALE TRADE	5,279	5,265	5,252	5,237	5,212	5,192	5,185	5,181	5,176	5,180	5,197	5,219	5,227
RETAIL TRADE	15,159	15,145	15,128	15,107	15,108	15,064	15,170	15,162	15,174	15,149	15,159	15,266	15,271
FINANCE, INSURANCE, AND REAL ESTATE	5,342	5,344	5,351	5,350	5,356	5,367	5,374	5,384	5,391	5,423	5,435	5,451	5,471
SERVICES	19,083	19,097	19,136	19,144	19,187	19,215	19,238	19,262	19,356	19,478	19,546	19,660	19,802
GOVERNMENT ¹	15,669	15,685	15,784	15,780	15,772	15,758	15,753	15,742	15,724	15,713	15,744	15,711	15,822
FEDERAL ¹	2,737	2,739	2,735	2,742	2,746	2,747	2,748	2,742	2,742	2,738	2,756	2,745	2,737
STATE AND LOCAL	12,932	12,946	13,049	13,038	13,026	13,011	13,005	13,000	12,982	12,975	12,988	12,966	13,085

¹ April 1983 estimates have been corrected.

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	1982								1983				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
TOTAL ¹	39,118	39,037	38,896	38,920	38,952	38,907	38,884	38,847	38,955	38,977	39,048	39,176	39,306
GOODS-PRODUCING	6,583	6,535	6,497	6,477	6,438	6,390	6,353	6,336	6,376	6,376	6,390	6,433	6,466
MINING	140	137	135	134	134	132	130	129	129	128	127	126	123
CONSTRUCTION	380	377	377	376	376	375	375	377	379	379	380	380	382
MANUFACTURING	6,063	6,021	5,985	5,967	5,928	5,883	5,848	5,830	5,868	5,869	5,883	5,927	5,961
DURABLE GOODS	2,877	2,852	2,841	2,815	2,787	2,748	2,729	2,717	2,732	2,738	2,748	2,769	2,792
Lumber and wood products	91	90	90	90	90	90	91	92	93	94	95	96	97
Furnitures and fixtures	131	130	129	130	129	128	129	128	130	129	131	133	134
Stone, clay, and glass products	116	115	115	113	113	111	109	108	108	107	108	110	111
Primary metal industries	107	105	104	102	100	97	94	94	95	96	96	96	96
Fabricated metal products	305	303	301	300	297	292	290	291	293	295	296	298	301
Machinery, except electrical	493	486	479	473	468	458	453	450	447	445	443	445	451
Electric and electronic equipment	862	856	851	847	836	827	826	814	822	826	831	837	844
Transportation equipment	289	287	290	285	282	279	275	280	283	286	287	291	295
Instruments and related products	306	304	304	301	299	296	294	292	292	291	291	290	289
Miscellaneous manufacturing ind.	177	176	178	174	173	170	168	168	169	169	170	173	174
NONDURABLE GOODS	3,186	3,169	3,144	3,152	3,141	3,135	3,119	3,113	3,136	3,131	3,135	3,158	3,169
Food and kindred products	495	494	498	497	496	499	497	495	499	498	497	505	505
Tobacco manufactures	24	24	24	24	23	23	22	24	24	23	23	23	23
Textile mill products	362	355	354	351	350	350	347	346	346	345	348	349	350
Apparel and other textile products	942	939	917	928	926	926	921	917	932	928	924	929	933
Paper and allied products	154	152	152	151	151	150	150	150	150	149	150	151	151
Printing and publishing	516	515	513	514	514	512	511	512	513	513	515	518	520
Chemicals and allied products	282	281	280	280	279	277	276	275	274	275	275	276	276
Petroleum and coal products	31	31	31	31	31	31	31	31	31	31	31	31	30
Rubber and misc. plastics products	246	245	244	245	241	238	235	236	238	241	244	249	253
Leather and leather products	134	133	131	131	130	129	129	127	129	128	128	127	128
SERVICE-PRODUCING ¹	32,535	32,502	32,399	32,443	32,514	32,517	32,531	32,511	32,579	32,601	32,658	32,743	32,840
TRANSPORTATION AND PUBLIC UTILITIES	1,344	1,339	1,337	1,334	1,335	1,332	1,330	1,331	1,328	1,328	1,328	1,332	1,329
WHOLESALE AND RETAIL TRADE	9,064	9,063	9,074	9,061	9,049	9,045	9,033	8,997	9,063	9,068	9,088	9,094	9,099
WHOLESALE TRADE	1,403	1,399	1,397	1,393	1,389	1,387	1,380	1,378	1,374	1,375	1,372	1,377	1,381
RETAIL TRADE	7,661	7,664	7,677	7,668	7,660	7,658	7,653	7,619	7,689	7,693	7,716	7,717	7,718
FINANCE, INSURANCE, AND REAL ESTATE	3,195	3,201	3,200	3,201	3,206	3,203	3,207	3,212	3,218	3,220	3,227	3,251	3,255
SERVICES	11,287	11,306	11,336	11,351	11,394	11,410	11,431	11,456	11,474	11,500	11,536	11,603	11,654
GOVERNMENT ¹	7,645	7,593	7,452	7,496	7,530	7,527	7,530	7,515	7,496	7,485	7,479	7,463	7,503
FEDERAL ¹	878	882	884	886	889	887	894	894	892	891	902	910	928
STATE AND LOCAL	6,767	6,711	6,568	6,610	6,641	6,640	6,636	6,621	6,604	6,594	6,577	6,553	6,575

¹ April 1983 estimates have been corrected.

**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	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^P	July ^P
TOTAL PRIVATE	59,568	59,367	59,247	58,988	58,850	58,764	58,939	58,801	58,889	59,150	59,462	59,874	60,207
GOODS-PRODUCING	16,578	16,430	16,307	16,095	15,961	15,908	16,019	15,900	15,881	16,016	16,183	16,368	16,582
MINING	814	804	792	776	763	750	736	715	707	701	699	712	719
CONSTRUCTION	3,013	2,992	2,973	2,951	2,946	2,917	2,992	2,882	2,851	2,880	2,953	3,033	3,070
MANUFACTURING	12,751	12,634	12,542	12,368	12,252	12,241	12,291	12,303	12,323	12,435	12,531	12,623	12,793
DURABLE GOODS	7,350	7,234	7,150	6,992	6,900	6,892	6,931	6,949	6,961	7,035	7,115	7,168	7,297
Lumber and wood products	491	491	493	495	500	506	515	522	529	540	550	565	574
Furniture and fixtures	339	342	338	336	337	338	339	337	342	349	354	357	364
Stone, clay, and glass products	437	434	432	427	422	418	421	421	423	429	434	436	439
Primary metal industries	672	658	640	615	601	596	598	595	601	608	615	617	629
Fabricated metal products	1,031	1,018	1,008	988	975	973	981	983	982	987	996	1,004	1,015
Machinery, except electrical	1,358	1,321	1,297	1,243	1,215	1,199	1,186	1,179	1,171	1,175	1,201	1,205	1,232
Electric and electronic equipment	1,215	1,206	1,193	1,180	1,178	1,161	1,182	1,187	1,193	1,204	1,213	1,226	1,246
Transportation equipment	1,116	1,082	1,072	1,039	1,010	1,044	1,055	1,073	1,066	1,085	1,093	1,098	1,135
Instruments and related products	411	407	404	398	394	390	387	385	384	384	384	383	380
Miscellaneous manufacturing ind.	280	275	273	271	268	267	267	267	270	274	275	277	283
NONDURABLE GOODS	5,401	5,400	5,392	5,376	5,352	5,349	5,360	5,354	5,362	5,400	5,416	5,455	5,496
Food and kindred products	1,129	1,126	1,123	1,127	1,123	1,119	1,119	1,115	1,114	1,126	1,126	1,139	1,131
Tobacco manufactures	52	53	51	51	48	54	54	52	52	51	51	50	50
Textile mill products	634	630	628	629	623	623	622	622	627	631	634	643	648
Apparel and other textile products	963	972	971	968	962	963	973	970	965	972	976	981	1,002
Paper and allied products	491	489	492	486	487	486	486	486	486	488	491	492	497
Printing and publishing	696	696	696	656	694	695	694	694	694	699	701	704	709
Chemicals and allied products	596	597	595	593	592	589	588	587	585	587	585	587	591
Petroleum and coal products	119	119	122	120	120	119	120	121	122	122	120	120	122
Rubber and misc. plastics products	537	535	532	526	523	524	525	529	538	546	554	560	574
Leather and leather products	184	183	182	180	180	177	179	178	179	178	178	179	172
SERVICE-PRODUCING	42,990	42,937	42,940	42,893	42,889	42,856	42,920	42,901	43,008	43,134	43,279	43,506	43,625
TRANSPORTATION AND PUBLIC UTILITIES	4,189	4,168	4,171	4,149	4,135	4,125	4,103	4,087	4,086	4,106	4,111	4,109	4,100
WHOLESALE AND RETAIL TRADE	17,868	17,833	17,800	17,764	17,738	17,689	17,774	17,769	17,776	17,754	17,797	17,902	17,916
WHOLESALE TRADE	4,268	4,252	4,240	4,225	4,201	4,183	4,171	4,166	4,156	4,165	4,182	4,200	4,200
RETAIL TRADE	13,600	13,581	13,560	13,539	13,537	13,506	13,603	13,603	13,620	13,589	13,615	13,702	13,716
FINANCE, INSURANCE, AND REAL ESTATE	3,994	3,990	3,994	3,990	3,993	3,997	3,998	4,003	4,012	4,037	4,049	4,065	4,073
SERVICES	16,939	16,946	16,975	16,990	17,023	17,045	17,045	17,042	17,134	17,237	17,322	17,430	17,536

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

P = preliminary.

ESTABLISHMENT DATA

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

Time span	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span	1981.....	57.8	52.4	52.2	65.6	60.2	58.9	62.6	49.5	42.2	33.3	29.3	30.9
	1982.....	28.5	45.4	36.0	39.0	47.6	32.8	38.4	37.1	34.1	29.3	32.0	42.2
	1983.....	56.5	45.7	62.4	69.1	71.0	64.5p	69.6p					
Over 3-month span	1981.....	58.3	54.6	59.1	65.9	67.5	66.7	60.5	50.5	33.3	30.1	24.5	23.4
	1982.....	25.3	28.8	32.0	34.1	32.5	33.6	27.2	27.2	26.1	25.5	24.7	40.6
	1983.....	45.4	55.1	65.6	75.8	75.8p	76.1p						
Over 6-month span	1981.....	68.5	65.3	63.7	69.4	64.2	58.6	45.7	34.4	29.6	24.2	25.0	22.0
	1982.....	20.2	23.7	25.3	29.8	26.1	26.1	23.4	19.1	21.2	26.1	26.6	35.8
	1983.....	50.5	63.2	73.4p	76.3p								
Over 12-month span	1981.....	74.5	71.2	70.4	58.1	47.6	41.4	34.9	29.8	27.4	23.7	25.3	23.1
	1982.....	22.0	20.7	18.0	19.4	18.3	20.7	20.7	22.8	24.2	31.5	37.6	43.8p
	1983.....	50.8p											

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		
	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P
1 ALABAMA	1,326.5	1,312.5	1,314.7	16.5	14.6	14.7	59.5	59.0	60.0	343.1	329.7	329.5
2 Birmingham	337.3	333.0	332.1	8.7	7.3	7.3	17.7	17.6	18.2	54.5	48.7	46.7
3 Huntsville	124.9	129.8	130.9	(1)	(1)	(1)	3.9	3.9	4.1	37.1	40.0	40.2
4 Mobile	151.6	146.2	148.9	(1)	(1)	(1)	9.5	9.8	9.9	29.3	26.1	26.4
5 Montgomery	104.7	103.7	103.8	(1)	(1)	(1)	5.3	5.6	5.9	15.6	14.4	14.4
6 Tuscaloosa	48.7	49.4	48.4	2.5	1.7	1.7	2.1	2.0	2.2	7.5	7.7	7.8
7 ALASKA	201.3	209.3	214.8	9.6	9.9	9.9	15.9	17.3	19.6	14.1	11.1	12.0
8 ARIZONA	1,019.4	1,043.5	1,027.8	17.9	15.8	15.8	65.7	70.9	73.0	154.2	150.2	152.1
9 Phoenix	646.8	653.5	655.3	.4	.6	.6	44.2	48.0	49.4	112.0	107.6	109.2
10 Tucson	189.1	195.9	193.1	4.9	3.7	3.7	12.2	13.7	14.4	25.9	26.3	26.6
11 ARKANSAS	716.6	732.8	725.5	6.2	5.6	5.7	31.0	30.4	31.8	198.1	200.5	203.5
12 Fayetteville—Springdale	64.5	66.3	65.2	(1)	(1)	(1)	2.4	2.2	2.3	19.4	18.4	18.4
13 Fort Smith	65.5	66.8	66.4	1.3	1.1	1.1	2.5	2.3	2.2	20.5	22.0	22.4
14 Little Rock—North Little Rock	177.1	178.5	178.4	(1)	(1)	(1)	8.7	8.5	8.8	27.1	25.5	25.8
15 Pine Bluff	29.3	29.3	28.9	(1)	(1)	(1)	1.3	1.1	1.2	5.9	5.7	5.8
16 CALIFORNIA	9,892.8	9,842.8	9,924.9	50.2	47.8	47.7	376.9	361.2	376.8	1,931.4	1,879.3	1,894.7
17 Anaheim—Santa Ana—Garden Grove	858.0	842.3	846.7	3.8	3.2	3.2	39.3	31.9	32.2	214.3	209.3	211.2
18 Bakersfield	140.5	138.1	139.3	14.5	14.2	14.4	6.9	6.4	6.3	10.0	9.7	9.7
19 Fresno	176.7	175.7	176.3	1.1	1.1	1.2	8.5	7.9	8.3	21.1	21.0	21.5
20 Los Angeles—Long Beach	3,573.7	3,575.0	3,592.2	14.8	14.2	14.2	107.0	97.9	99.6	864.8	848.0	852.2
21 Modesto	84.8	83.8	84.2	.1	.1	.1	4.1	3.8	4.2	17.6	17.5	17.9
22 Oxnard—Simi Valley—Ventura	162.5	162.6	162.0	3.2	3.0	2.9	5.5	5.3	5.4	26.2	25.9	25.9
23 Riverside—San Bernardino—Ontario	434.2	433.6	431.2	1.6	1.0	1.0	20.0	19.3	19.6	59.2	57.6	57.7
24 Sacramento	407.4	407.3	408.4	.8	.8	.8	16.4	15.9	16.5	26.6	26.0	26.6
25 Salinas—Seaside—Monterey	92.7	90.0	91.2	.4	.4	.4	3.1	3.0	3.1	9.9	9.0	9.1
26 San Diego	668.1	661.2	664.3	.5	.5	.5	29.5	24.9	25.3	109.0	103.2	104.6
27 San Francisco—Oakland	1,573.0	1,557.7	1,562.7	4.3	4.4	4.4	73.2	70.3	71.1	192.0	184.3	183.0
28 San Jose	700.5	692.8	696.0	.1	.1	.1	21.9	22.0	23.1	257.4	251.9	252.3
29 Santa Barbara—Santa Maria—Lompoc	125.4	125.6	125.5	1.6	1.4	1.4	4.8	4.5	4.5	17.8	18.9	19.0
30 Santa Rosa	96.7	95.6	95.8	.5	.5	.5	5.0	4.5	4.7	15.4	14.9	14.6
31 Stockton	117.3	117.7	116.3	.1	.1	.1	5.2	5.0	5.1	19.7	19.0	18.6
32 Vallejo—Fairfield—Napa	104.1	102.3	103.3	.5	.5	.5	4.5	4.5	4.7	11.6	10.0	10.4
33 COLORADO	1,320.4	1,325.8	1,340.5	44.3	38.6	39.7	81.7	83.0	86.1	184.0	177.3	179.9
34 Denver—Boulder	851.0	859.2	866.4	30.0	27.9	28.4	49.9	50.0	52.1	127.6	124.0	125.5
35 CONNECTICUT	1,441.8	1,432.8	1,440.1	(2)	(2)	(2)	52.6	50.1	52.5	420.2	403.2	402.7
36 Bridgeport	169.2	164.2	165.4	(2)	(2)	(2)	5.0	5.0	5.1	61.5	57.7	57.9
37 Hartford	401.5	399.5	400.6	(2)	(2)	(2)	12.2	11.4	12.0	92.5	87.6	87.3
38 New Britain	61.1	59.7	59.1	(2)	(2)	(2)	2.2	2.0	2.1	26.2	24.6	24.2
39 New Haven—West Haven	188.9	185.4	185.2	(2)	(2)	(2)	6.6	6.1	6.4	39.9	37.4	36.8
40 Stamford	116.7	115.7	117.0	(2)	(2)	(2)	5.5	5.2	5.4	32.8	32.3	32.3
41 Waterbury	86.1	84.5	85.9	(2)	(2)	(2)	2.9	2.9	3.1	30.0	28.2	28.8
42 DELAWARE	262.7	261.2	264.0	(1)	(1)	(1)	16.9	16.5	17.3	67.0	67.3	67.6
43 Wilmington	232.3	231.7	232.7	(1)	(1)	(1)	19.4	19.1	19.7	60.2	59.5	59.7
44 DISTRICT OF COLUMBIA	596.4	594.7	597.0	(1)	(1)	(1)	10.4	10.0	10.1	13.7	13.6	13.6
45 Washington SMSA	1,602.4	1,612.3	1,625.7	(1)	(1)	(1)	68.2	69.3	73.0	60.1	62.3	63.1
46 FLORIDA	3,754.1	3,846.7	3,851.0	8.5	9.1	9.1	257.7	243.1	248.9	459.2	466.8	466.7
47 Daytona Beach	84.8	84.4	84.7	-	-	-	4.4	4.0	4.1	9.3	9.6	9.8
48 Fort Lauderdale—Hollywood	363.1	360.2	357.8	(1)	(1)	(1)	26.3	24.0	24.5	40.7	39.0	39.3
49 Fort Myers—Cape Coral	75.2	77.8	78.1	(1)	(1)	(1)	8.3	9.1	9.2	4.2	4.1	4.1
50 Gainesville	72.5	68.8	68.7	(1)	(1)	(1)	3.7	4.3	4.4	4.2	4.1	4.1
51 Jacksonville	308.5	313.7	313.6	(1)	(1)	(1)	18.7	19.2	19.7	33.3	31.8	31.3
52 Lakeland—Winter Haven	114.3	116.8	114.4	3.3	4.1	4.1	8.3	6.5	6.6	18.4	19.4	18.0
53 Melbourne—Titusville—Cocoa	108.8	112.9	113.7	(1)	(1)	(1)	5.8	5.9	5.9	24.4	24.5	24.8
54 Miami	733.1	734.1	735.2	(1)	(1)	(1)	36.7	33.7	34.1	95.6	96.2	96.0
55 Orlando	317.9	336.9	337.1	(1)	(1)	(1)	24.7	24.3	24.8	39.2	39.4	39.5
56 Pensacola	102.3	105.6	106.4	(1)	(1)	(1)	7.1	9.0	8.9	12.5	12.5	12.5
57 Sarasota	75.6	77.5	77.8	(1)	(1)	(1)	7.0	6.6	6.7	5.8	5.7	5.8
58 Tallahassee	73.8	75.8	76.2	(1)	(1)	(1)	3.5	3.6	3.6	3.0	3.3	3.2
59 Tampa—St. Petersburg	589.9	600.2	598.3	(1)	(1)	(1)	40.0	40.2	41.1	78.1	79.1	79.4
60 West Palm Beach—Boca Raton	219.1	226.5	223.6	(1)	(1)	(1)	19.3	16.8	16.8	28.2	29.2	29.6

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			
JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	
72.4	70.3	70.9	268.3	266.0	266.0	59.3	58.9	59.3	216.0	219.1	219.2	291.4	294.9	295.1	1
29.5	29.4	29.6	79.8	78.3	78.4	23.6	23.6	23.9	71.8	73.6	73.7	51.7	54.5	54.3	2
2.8	2.7	2.7	22.4	22.7	22.8	3.6	3.5	3.5	20.9	20.2	21.0	34.9	36.1	36.6	3
10.4	9.8	10.0	37.1	36.7	36.9	7.2	6.7	6.7	31.5	31.2	31.5	26.6	25.9	27.5	4
4.6	4.4	4.6	23.2	23.3	23.4	6.2	6.1	6.2	20.7	20.8	20.5	29.1	29.1	28.8	5
1.8	1.7	1.7	9.9	9.9	10.0	1.5	1.7	1.7	6.4	6.5	6.2	17.0	18.2	17.1	6
19.5	19.6	21.2	36.3	40.0	41.1	9.8	10.1	10.5	36.3	37.4	39.0	59.8	63.9	61.5	7
56.8	55.8	55.8	252.0	255.4	253.8	61.8	62.4	62.6	221.6	225.6	225.4	189.4	207.4	189.3	8
35.7	34.9	35.2	167.8	170.0	169.1	48.2	48.3	48.4	145.4	150.1	149.2	93.1	104.0	94.2	9
9.2	8.7	8.8	43.0	43.3	43.0	8.5	9.0	9.1	42.9	44.3	44.3	42.5	46.9	43.2	10
42.9	41.7	42.2	159.6	158.3	159.2	32.7	32.5	33.0	119.0	121.6	121.0	127.1	142.2	129.1	11
4.0	4.5	4.5	15.8	16.2	16.2	2.3	2.4	2.5	9.4	9.9	9.7	11.2	12.7	11.6	12
3.6	3.5	3.6	14.4	14.1	14.2	2.5	2.6	2.6	12.2	12.1	12.2	8.5	9.1	8.1	13
13.2	13.1	13.2	42.0	43.2	43.4	13.3	13.4	13.5	36.9	37.8	38.1	35.9	37.0	35.6	14
3.6	3.3	3.3	5.9	5.6	5.6	1.3	1.3	1.3	5.5	5.7	5.7	5.8	6.6	6.0	15
546.8	534.0	537.4	2,279.5	2,284.4	2,309.5	645.4	648.9	652.5	2,287.8	2,332.8	2,349.4	1,774.8	1,754.4	1,756.9	16
30.1	28.2	28.3	210.4	208.1	209.1	60.5	59.7	59.7	191.4	194.8	196.5	108.2	107.1	106.5	17
8.1	7.7	7.8	35.7	35.7	36.2	5.4	5.4	5.4	25.6	25.6	25.6	34.3	33.4	33.9	18
10.5	10.4	10.6	46.0	44.8	45.6	11.2	11.5	11.5	37.5	37.4	37.0	40.8	41.6	40.6	19
196.4	194.2	194.1	809.9	816.5	821.7	238.6	240.2	240.8	873.7	895.3	899.6	468.5	468.7	470.0	20
4.2	4.1	4.0	21.1	21.2	21.3	3.4	3.4	3.4	17.7	17.4	17.4	16.6	16.3	15.9	21
6.7	6.6	6.5	39.6	39.8	39.9	9.3	10.4	10.4	33.3	33.7	33.7	38.7	37.9	37.3	22
25.6	25.0	25.1	108.3	109.0	109.4	19.1	18.7	18.7	96.9	98.2	97.2	103.5	104.8	102.5	23
22.1	21.7	21.8	93.9	95.1	95.3	22.9	22.6	22.7	79.8	80.5	80.6	144.9	144.7	144.1	24
4.8	4.7	4.7	24.7	23.8	24.3	4.2	4.3	4.3	20.9	20.7	21.0	24.7	24.1	24.3	25
29.8	28.9	29.3	153.6	155.6	156.3	42.2	42.0	42.1	161.2	164.2	164.6	142.3	141.9	141.6	26
127.1	122.4	123.1	357.8	355.3	357.4	154.1	153.7	153.9	374.4	381.1	382.5	290.1	286.2	287.3	27
22.9	21.8	22.0	126.2	128.0	128.4	28.6	28.8	28.8	161.4	160.8	162.4	82.0	79.4	78.9	28
5.5	5.3	5.3	30.4	29.6	29.8	6.2	6.3	6.3	34.2	34.8	34.4	24.9	24.8	24.8	29
4.8	4.7	4.7	23.7	23.3	23.6	6.1	6.1	6.1	20.8	21.1	21.1	20.4	20.5	20.5	30
7.8	7.7	8.0	26.9	27.2	27.0	6.2	6.2	6.2	24.0	24.8	24.1	27.4	27.7	27.2	31
4.6	4.5	4.6	22.5	22.7	22.9	3.5	3.5	3.5	21.0	20.9	20.9	35.9	35.7	35.8	32
85.7	83.4	84.1	321.4	327.1	330.4	83.8	86.0	87.0	281.4	282.9	291.4	238.2	247.4	242.0	33
61.0	61.1	61.8	201.5	206.2	206.3	60.2	62.1	63.0	187.0	189.9	193.7	133.9	138.1	135.7	34
63.0	61.3	62.2	305.1	307.4	310.3	114.7	115.5	117.4	304.6	309.2	310.4	181.6	186.1	184.6	35
6.5	6.4	6.5	35.3	34.7	35.0	7.9	7.7	7.9	36.4	36.2	36.4	16.6	16.5	16.6	36
14.1	13.8	13.9	83.4	83.4	84.0	66.5	66.0	66.9	80.3	84.4	83.8	52.5	52.9	52.7	37
3.5	3.7	3.8	10.3	10.0	10.0	1.9	1.8	1.9	10.8	11.0	11.0	6.2	6.6	6.1	38
15.8	15.8	15.8	41.4	40.5	40.9	11.2	11.0	11.2	50.3	50.9	50.8	23.7	23.7	23.3	39
4.6	4.6	4.7	26.5	26.4	26.8	9.2	9.4	9.4	27.8	27.5	28.1	10.3	10.3	10.3	40
3.3	3.4	3.5	16.4	16.3	16.6	3.9	3.9	4.0	18.9	18.7	18.7	10.7	11.1	11.2	41
11.8	11.2	11.2	58.2	57.4	59.2	13.8	13.4	13.7	51.5	51.3	51.8	43.6	44.1	43.2	42
11.5	10.9	10.9	47.8	47.9	48.8	12.6	12.4	12.7	46.3	46.1	46.4	34.4	35.8	34.6	43
25.9	25.4	25.6	60.2	58.9	59.5	33.6	33.0	33.4	191.0	192.8	191.5	261.6	261.0	263.3	44
74.2	74.1	74.9	302.2	304.1	306.3	91.8	91.7	93.1	471.0	476.2	480.9	534.9	534.6	534.4	45
229.7	233.4	235.4	988.4	1,020.3	1,013.9	280.5	290.3	291.4	894.2	940.1	940.2	635.9	643.6	645.4	46
3.3	3.3	3.3	23.7	23.5	23.1	5.0	5.4	5.4	23.7	23.0	23.1	15.4	15.6	15.9	47
18.4	18.1	18.0	107.5	107.4	104.9	31.8	32.5	32.7	89.1	91.4	89.9	49.3	47.8	48.5	48
4.2	4.3	4.2	22.3	23.0	23.0	7.0	7.0	7.2	16.8	17.7	17.7	12.4	12.6	12.7	49
1.6	1.6	1.6	14.0	13.5	13.4	3.0	2.8	2.8	14.2	14.5	14.3	31.8	28.0	28.1	50
25.0	25.1	25.2	80.1	82.1	82.6	28.1	28.3	28.3	70.1	73.3	73.4	53.2	53.9	53.1	51
4.9	5.0	5.0	28.8	30.3	29.3	9.4	10.1	10.1	25.0	25.1	25.2	16.2	16.3	16.1	52
4.9	4.9	4.9	23.7	26.3	26.6	4.2	4.2	4.2	27.4	27.8	28.0	18.4	19.3	19.3	53
73.0	70.8	70.9	191.8	193.5	193.3	58.9	58.4	58.9	181.9	185.7	186.1	95.2	95.8	95.9	54
15.5	15.6	15.6	86.5	94.7	94.0	21.2	20.7	20.9	87.2	95.0	95.1	43.6	47.2	47.2	55
5.2	5.3	5.8	24.5	24.5	24.9	4.4	4.3	4.4	22.7	23.2	23.3	25.9	26.8	26.6	56
3.2	3.5	3.5	22.8	22.9	22.6	6.3	6.8	6.8	20.2	21.8	21.9	10.3	10.2	10.5	57
2.5	2.6	2.6	16.1	15.5	15.6	3.5	3.7	3.7	14.1	14.8	14.9	31.1	32.3	32.6	58
33.6	33.8	33.6	161.6	160.3	159.2	43.2	44.4	44.5	148.5	154.1	154.4	84.9	88.3	86.1	59
9.8	10.3	10.2	56.5	59.1	59.0	18.9	19.6	19.4	54.8	58.6	57.9	31.6	32.9	30.7	60

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and areas	Total			Mining			Construction			Manufacturing		
	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P
1 GEORGIA	2,212.1	2,238.6	2,252.6	7.5	7.3	7.2	106.9	101.8	105.9	501.5	499.6	503.1
2 Albany	43.9	43.4	43.4	(1)	(1)	(1)	1.6	1.7	1.7	11.8	11.5	11.4
3 Athens	53.4	53.6	54.1	-	-	-	1.6	1.6	1.7	14.2	13.8	14.1
4 Atlanta	1,011.5	1,026.2	1,032.3	(1)	(1)	(1)	46.8	44.1	45.2	142.5	140.0	139.7
5 Augusta	121.6	124.1	124.5	(1)	(1)	(1)	5.8	6.0	6.4	33.5	33.5	33.5
6 Columbus	80.3	78.6	79.9	(1)	(1)	(1)	3.8	3.5	3.6	19.0	19.9	20.1
7 Macon	99.7	98.6	99.4	(1)	(1)	(1)	4.4	3.4	3.5	16.2	16.2	16.1
8 Savannah	88.6	88.6	88.2	(1)	(1)	(1)	5.5	5.0	4.9	16.8	16.1	15.9
9 HAWAII	403.1	399.2	399.7	-	-	-	18.1	16.9	16.7	23.7	21.4	22.7
10 Honolulu	329.3	326.5	326.5	-	-	-	14.6	13.7	13.6	17.8	15.7	16.7
11 IDAHO	312.2	315.7	319.0	3.7	3.7	3.9	13.9	13.6	14.3	48.6	49.4	51.2
12 Boise City	76.0	77.8	79.0	(1)	(1)	(1)	5.1	4.9	4.9	8.7	9.0	9.2
13 ILLINOIS	4,622.9	4,516.4	4,532.5	27.7	26.1	26.4	163.1	147.6	154.4	1,033.1	967.6	974.8
14 Bloomington—Normal	47.6	47.9	48.2	(2)	(2)	(2)	1.4	1.2	1.3	5.7	5.4	5.4
15 Champaign—Urbana—Rantoul	71.9	75.3	70.3	(2)	(2)	(2)	1.9	1.7	1.8	6.9	6.9	6.7
16 Chicago—Gary	3,349.6	3,271.7	3,291.3	3.0	3.2	3.3	119.5	115.6	121.1	780.2	727.1	732.8
17 Chicago SMSA ¹	3,120.6	3,049.4	3,067.1	2.9	3.1	3.2	107.9	104.1	109.1	702.8	656.4	661.9
18 Davenport—Rock Island—Moline	154.9	148.2	148.5	(2)	(2)	(2)	6.5	5.9	6.1	43.3	38.6	38.5
19 Decatur	53.8	51.7	51.7	(2)	(2)	(2)	2.3	2.0	2.1	18.5	17.3	17.5
20 Kankakee	33.7	31.0	31.5	(2)	(2)	(2)	1.6	1.2	1.2	7.5	6.2	6.3
21 Peoria	138.7	131.2	130.4	(2)	(2)	(2)	7.6	5.9	6.5	39.5	36.7	35.1
22 Rockford	107.3	105.6	106.3	(2)	(2)	(2)	3.3	2.9	2.8	39.9	40.4	40.8
23 Springfield	88.1	84.3	85.4	(2)	(2)	(2)	3.6	2.7	3.0	6.2	4.8	5.1
24 INDIANA	2,019.8	1,994.8	1,986.5	11.0	9.6	9.7	75.0	69.7	74.1	594.8	561.0	567.0
25 Anderson	43.7	43.6	43.8	(1)	(1)	(1)	1.0	1.0	1.1	17.9	17.2	17.2
26 Elkhart	69.9	75.1	76.8	(1)	(1)	(1)	1.7	1.7	2.0	35.7	40.0	40.9
27 Evansville	124.3	118.5	119.1	2.9	2.7	2.7	5.7	5.9	6.1	35.4	28.7	29.2
28 Fort Wayne	160.9	157.8	157.8	(1)	(1)	(1)	6.1	5.4	5.6	48.6	45.8	46.0
29 Gary—Hammond—East Chicago ²	228.3	222.3	224.2	(1)	(1)	(1)	11.6	11.5	12.0	77.4	70.7	70.9
30 Indianapolis	511.2	506.1	505.8	(1)	(1)	(1)	20.4	19.7	20.3	112.5	106.9	107.1
31 Lafayette—West Lafayette	52.3	54.7	52.8	(1)	(1)	(1)	2.0	1.6	1.7	10.5	10.3	10.5
32 Muncie	44.7	45.7	43.1	(1)	(1)	(1)	1.3	1.1	1.2	10.7	10.1	10.3
33 South Bend	107.5	106.2	106.5	(1)	(1)	(1)	3.8	3.8	4.2	29.6	27.6	27.2
34 Terre Haute	58.5	58.1	56.9	1.4	1.2	1.2	2.8	2.9	3.1	14.3	12.6	12.7
35 IOWA	1,035.5	1,021.1	1,011.6	2.0	1.9	1.9	38.3	30.3	32.0	207.8	198.8	197.0
36 Cedar Rapids	76.2	73.1	72.0	(1)	(1)	(1)	2.3	1.7	2.0	22.4	21.4	19.8
37 Des Moines	171.9	167.5	167.1	(1)	(1)	(1)	5.6	4.1	4.0	20.3	19.4	19.4
38 Dubuque	38.4	37.1	37.1	(1)	(1)	(1)	1.2	1.0	1.1	11.3	10.7	11.0
39 Sioux City	44.8	45.9	45.8	(1)	(1)	(1)	2.0	1.2	1.4	6.6	8.6	8.3
40 Waterloo—Cedar Falls	58.7	55.5	54.7	(1)	(1)	(1)	1.7	1.3	1.4	19.3	16.8	16.7
41 KANSAS	928.7	910.8	912.7	18.8	17.1	17.4	40.1	35.0	36.4	169.1	158.2	161.1
42 Lawrence	25.3	27.4	24.9	(2)	(2)	(2)	.7	.7	.7	4.4	4.0	4.0
43 Topeka	84.8	83.5	83.6	(2)	(2)	(2)	3.2	2.9	2.8	9.5	9.3	9.0
44 Wichita	195.3	191.1	192.0	3.8	3.4	3.4	8.8	7.1	7.6	53.1	50.2	50.8
45 KENTUCKY	1,170.2	1,169.2	1,168.2	54.5	51.4	52.3	52.8	50.4	52.8	249.2	245.8	247.6
46 Lexington—Fayette	141.9	142.4	140.9	(1)	(1)	(1)	6.5	5.3	5.8	26.5	25.7	26.1
47 Louisville	370.9	366.2	365.7	(1)	(1)	(1)	16.3	16.0	16.5	87.7	84.4	84.8
48 Owensboro	30.0	29.5	29.9	1.1	1.0	1.1	1.6	1.6	1.7	6.0	5.5	5.8
49 LOUISIANA	1,616.3	1,587.8	1,585.0	98.2	92.5	92.4	125.4	115.5	113.9	205.1	191.2	191.4
50 Alexandria	53.2	54.5	54.0	(1)	(1)	(1)	3.6	3.5	3.6	5.4	5.3	5.2
51 Baton Rouge	205.7	207.9	205.5	1.5	1.5	1.5	22.0	21.3	21.4	25.8	24.2	24.3
52 Lafayette	97.8	97.3	97.2	19.7	18.0	18.0	6.6	6.1	6.3	5.0	5.3	5.2
53 Lake Charles	63.7	61.3	60.8	2.6	2.4	2.4	6.0	4.7	4.5	10.8	9.9	9.7
54 Monroe	50.6	52.0	51.8	.7	.5	.6	3.2	3.5	3.6	7.5	7.3	7.4
55 New Orleans	518.4	506.2	502.4	21.3	20.9	20.7	31.9	30.3	30.4	47.8	44.1	44.4
56 Shreveport	152.8	145.7	146.3	7.8	7.1	7.1	8.9	7.1	7.3	25.9	22.9	22.9
57 MAINE	422.3	408.7	418.5	(1)	(1)	(1)	18.1	16.6	18.2	109.9	104.0	107.3
58 Lewiston—Auburn	34.1	33.9	34.0	(1)	(1)	(1)	1.2	1.2	1.3	11.3	11.1	11.3
59 Portland	96.1	97.0	98.3	(1)	(1)	(1)	4.5	4.3	4.5	17.3	16.5	16.0
60 MARYLAND	1,689.0	1,676.4	1,688.5	(1)	(1)	(1)	69.8	86.2	88.6	215.4	206.0	208.5
61 Baltimore SMSA	938.0	925.3	930.0	(1)	(1)	(1)	42.8	39.2	40.1	141.6	136.7	137.9
62 Baltimore City	438.1	428.9	430.6	(1)	(1)	(1)	14.7	12.6	12.9	57.4	55.0	55.5

See footnotes at end of table.

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	
147.1	146.0	146.6	523.7	530.8	535.8	117.0	119.6	120.2	375.1	389.0	393.9	433.3	444.3	440.0	1
2.3	2.2	2.2	9.2	9.3	9.4	2.1	2.2	2.2	6.1	6.0	6.0	10.8	10.5	10.5	2
1.6	1.5	1.5	10.0	10.6	10.4	1.7	1.7	1.6	6.8	7.0	7.1	17.5	17.4	17.7	3
92.4	92.4	92.7	282.3	287.4	290.9	70.5	71.4	71.7	217.7	223.8	225.9	159.3	167.1	166.2	4
4.3	4.2	4.2	24.0	24.6	24.6	4.5	4.5	4.6	19.1	20.0	20.2	30.5	31.3	30.9	5
3.3	3.0	3.2	16.6	16.7	17.0	5.4	5.4	5.4	11.7	11.0	11.3	20.5	19.1	19.3	6
4.7	4.6	4.6	20.6	21.0	21.1	6.1	6.1	6.1	17.7	17.8	17.7	29.9	29.5	30.2	7
7.8	9.1	8.7	21.3	21.0	21.1	4.1	4.3	4.3	16.5	16.7	16.7	16.6	16.5	16.5	8
32.2	30.3	30.7	106.2	106.0	106.6	31.7	31.6	31.8	101.1	100.2	100.5	90.1	92.8	90.7	9
26.9	25.0	25.4	87.3	87.3	87.5	27.2	27.4	27.5	79.0	78.5	78.9	76.5	78.9	76.9	10
19.0	18.9	19.1	78.7	78.1	78.7	22.7	23.1	23.2	58.8	59.4	59.6	66.6	69.5	69.0	11
5.2	5.2	5.3	19.3	20.3	20.6	7.7	7.7	7.8	14.9	15.1	15.4	15.1	15.6	15.8	12
275.9	267.4	268.7	1,083.3	1,068.5	1,073.6	331.1	326.2	330.0	993.4	981.5	992.3	715.3	731.5	712.3	13
3.5	3.3	3.3	11.7	11.6	11.6	8.1	8.2	8.3	8.8	8.9	8.7	8.4	9.3	9.6	14
2.5	2.4	2.4	19.3	19.2	19.0	2.4	2.4	2.4	12.4	11.8	11.8	26.5	30.9	26.2	15
198.9	194.4	195.8	799.5	793.4	797.2	254.6	250.1	252.0	764.1	761.5	764.0	429.8	426.4	425.1	16
184.2	181.2	182.7	752.0	745.3	748.7	245.7	241.3	243.1	725.4	722.0	725.2	399.7	396.0	393.2	17
6.9	6.4	6.6	39.0	38.8	38.6	7.2	7.2	7.2	26.1	25.5	25.3	25.9	25.8	26.2	18
4.8	4.7	4.7	11.1	10.8	10.8	2.7	2.6	2.6	8.9	8.8	8.7	5.5	5.5	5.3	19
1.4	1.3	1.3	6.8	6.7	6.6	1.5	1.4	1.5	6.8	6.4	6.5	8.1	7.8	8.1	20
7.5	7.2	7.3	33.2	32.2	32.2	6.7	6.7	6.8	27.7	26.3	26.2	16.5	16.2	16.3	21
4.4	4.1	4.2	23.3	22.7	22.8	4.8	4.6	4.7	19.2	18.3	18.6	12.4	12.6	12.4	22
4.4	4.2	4.2	18.8	18.6	18.7	6.5	6.3	6.4	18.3	18.1	18.4	30.3	29.6	29.6	23
104.5	100.5	101.1	457.8	447.6	449.3	103.1	104.4	105.8	357.6	367.9	367.9	316.1	334.1	311.6	24
1.2	1.2	1.2	9.1	9.5	9.5	1.5	1.5	1.6	7.5	8.1	7.7	5.5	5.1	5.5	25
2.5	2.4	2.4	13.3	14.0	14.3	2.0	2.1	2.1	9.3	9.7	9.9	5.1	5.2	5.2	26
7.0	6.7	6.7	30.3	31.2	31.2	4.6	4.6	4.6	26.3	26.4	26.3	12.1	12.3	12.3	27
10.6	10.1	10.1	39.1	38.8	39.1	10.5	10.4	10.5	29.1	29.3	29.3	16.9	18.0	17.2	28
14.0	13.2	13.1	47.5	48.1	48.5	8.9	8.8	8.9	38.8	39.6	38.9	30.1	30.4	31.9	29
30.4	30.5	30.7	128.3	127.4	127.9	39.2	38.4	39.1	98.9	100.8	100.8	81.5	82.4	79.9	30
1.7	1.6	1.6	11.0	10.9	11.1	2.6	2.6	2.6	9.4	9.4	9.4	15.1	18.3	15.9	31
1.9	1.9	1.9	11.4	11.3	11.2	1.5	1.5	1.5	8.8	8.8	8.9	9.1	11.0	8.1	32
4.8	4.6	4.6	26.0	26.4	26.8	5.1	5.1	5.2	26.1	26.1	26.2	12.1	12.6	12.3	33
3.5	3.2	3.2	14.6	14.2	14.1	2.0	1.9	1.9	9.7	10.3	10.0	10.2	11.8	10.7	34
52.7	50.6	50.8	264.2	261.4	261.6	59.4	59.1	59.7	206.3	211.1	206.6	204.9	208.1	202.1	35
3.9	3.8	3.8	18.1	17.2	17.2	4.3	4.2	4.2	15.7	15.8	15.7	9.5	9.1	9.3	36
11.1	11.1	11.1	43.6	42.1	42.2	21.9	21.6	21.9	41.1	41.0	40.5	28.3	28.1	28.0	37
1.6	1.6	1.6	8.6	8.3	8.4	1.3	1.3	1.3	10.5	10.5	10.5	3.9	3.7	3.2	38
3.7	3.5	3.6	11.9	11.5	11.7	2.8	2.7	2.7	11.6	12.1	12.0	6.3	6.3	6.2	39
2.2	2.1	2.1	13.0	12.4	12.4	2.1	2.1	2.1	10.9	10.6	10.6	9.5	10.2	9.3	40
62.2	63.0	63.8	227.5	224.8	225.4	49.3	48.2	48.8	174.0	173.3	174.0	187.7	191.2	185.8	41
1.4	1.4	1.5	5.4	5.6	5.4	.9	.8	.8	3.7	4.0	4.0	8.8	10.9	8.5	42
8.1	7.9	7.9	18.5	18.4	18.5	5.9	5.9	5.9	17.4	17.7	17.7	22.0	21.4	21.8	43
10.3	10.3	10.4	44.9	45.2	45.1	9.9	9.9	10.1	39.8	39.2	39.6	24.7	25.8	25.0	44
67.2	62.6	62.2	261.4	260.1	260.0	52.2	52.0	52.4	215.5	221.8	225.1	217.4	225.1	215.8	45
7.5	7.4	7.4	32.6	31.1	31.2	7.2	7.2	7.2	30.2	32.8	32.1	31.4	32.8	31.1	46
23.2	21.7	21.6	86.2	85.5	85.2	23.5	23.6	23.8	79.0	79.6	79.5	54.9	55.4	54.3	47
2.4	2.3	2.4	7.2	7.0	7.1	1.1	1.2	1.2	6.2	6.1	6.2	4.4	4.8	4.4	48
130.6	123.9	124.6	369.4	365.1	365.5	79.9	80.1	80.2	302.7	308.3	307.1	305.0	311.2	309.9	49
2.5	2.5	2.5	12.1	12.4	12.5	3.0	3.0	3.0	11.2	11.8	11.6	15.4	16.0	15.6	50
10.4	10.1	10.0	47.6	47.3	47.4	12.0	12.1	12.1	37.3	38.3	38.6	49.1	53.1	50.2	51
7.6	7.8	7.9	24.5	24.2	24.2	3.6	3.6	3.7	20.5	20.8	21.1	10.3	11.5	10.8	52
4.9	4.7	4.8	15.0	14.9	14.9	2.9	3.0	3.1	10.8	11.1	11.0	10.7	10.6	10.4	53
2.8	2.7	2.7	13.2	13.6	13.5	3.9	3.9	3.9	9.9	9.8	10.1	9.4	10.7	10.0	54
52.0	47.9	47.7	130.5	126.6	126.9	31.8	31.4	31.3	121.5	125.4	123.2	81.6	79.6	77.8	55
9.7	8.6	8.6	35.9	34.2	34.1	7.7	7.9	8.0	31.3	31.6	31.8	25.6	26.3	26.5	56
19.4	17.7	18.3	91.6	87.9	92.2	18.0	18.2	18.6	83.4	80.6	83.3	81.9	83.7	80.6	57
1.3	1.3	1.3	8.0	8.0	8.0	1.7	1.6	1.7	7.4	7.5	7.4	3.2	3.2	3.0	58
6.3	6.0	6.2	25.6	25.7	26.7	8.3	8.8	8.9	21.5	22.0	23.0	12.6	13.7	13.0	59
88.4	85.4	85.9	407.9	407.5	410.9	96.8	95.9	97.6	395.7	399.3	407.4	395.0	396.1	389.6	60
60.2	56.5	56.6	219.1	217.9	218.7	60.2	58.2	59.2	207.1	211.6	212.8	207.0	205.2	204.7	61
38.6	35.6	35.3	94.3	91.5	91.8	40.1	39.3	40.0	111.6	115.4	114.9	81.4	79.5	80.2	62

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		
	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P
1 MASSACHUSETTS	2,655.5	2,634.3	2,636.5	(1)	(1)	(1)	83.4	71.7	75.4	648.1	611.9	619.5
2 Boston	1,474.7	1,486.3	1,481.0	(1)	(1)	(1)	46.2	42.2	44.6	289.5	282.0	285.4
3 Brockton	57.5	57.0	57.1	(1)	(1)	(1)	1.6	1.5	1.6	12.1	11.1	11.2
4 Fall River	53.1	51.5	51.5	(1)	(1)	(1)	1.7	1.9	1.8	18.8	18.5	18.7
5 Lawrence—Haverhill	115.0	113.3	114.3	(1)	(1)	(1)	3.2	3.2	3.6	43.4	40.8	41.1
6 Lowell	82.0	82.3	82.6	(1)	(1)	(1)	2.7	2.3	2.5	31.0	32.0	32.3
7 New Bedford	64.3	64.7	65.3	(1)	(1)	(1)	1.6	1.5	1.6	24.2	24.4	24.7
8 Springfield—Chicopee—Holyoke	228.1	226.9	225.1	(1)	(1)	(1)	6.0	5.6	6.0	58.8	54.6	55.5
9 Worcester	162.0	156.7	158.8	(1)	(1)	(1)	5.3	4.9	5.0	44.3	39.1	40.8
10 MICHIGAN	3,217.5	3,185.3	3,193.4	10.1	10.4	10.8	82.8	87.8	93.8	898.5	869.1	875.3
11 Ann Arbor	130.0	127.4	128.4	(1)	(1)	(1)	1.8	1.5	1.7	34.6	30.5	33.1
12 Battle Creek	60.0	60.7	61.3	(1)	(1)	(1)	1.5	2.3	2.0	18.8	17.9	18.7
13 Bay City	32.4	32.1	32.7	(1)	(1)	(1)	.6	.8	1.0	8.5	8.5	8.5
14 Benton Harbor	56.0	54.2	54.1	(1)	(1)	(1)	2.1	1.8	1.9	19.4	18.4	18.5
15 Detroit	1,568.3	1,545.1	1,545.3	1.3	.9	.9	32.2	38.1	39.1	430.2	419.8	416.3
16 Flint	177.2	180.8	179.6	(1)	(1)	(1)	3.0	3.5	3.8	64.5	67.4	66.5
17 Grand Rapids	263.6	263.3	264.0	(1)	(1)	(1)	10.0	9.0	9.5	86.2	85.7	87.7
18 Jackson	47.9	45.4	45.5	(1)	(1)	(1)	1.2	1.0	1.2	12.5	10.7	10.5
19 Kalamazoo—Portage	105.0	102.9	102.8	(1)	(1)	(1)	3.3	3.0	3.1	32.0	30.8	30.9
20 Lansing—East Lansing	187.3	189.9	190.2	(1)	(1)	(1)	4.4	3.1	3.6	37.3	39.6	39.6
21 Muskegon—Norton Shores—Muskegon Hts	57.3	55.9	56.0	(1)	(1)	(1)	2.0	1.9	2.0	19.1	18.2	18.5
22 Saginaw	78.2	78.5	78.7	(1)	(1)	(1)	1.9	2.1	2.5	25.7	24.5	24.6
23 MINNESOTA	1,735.1	1,707.7	1,718.2	11.3	9.5	9.8	66.0	59.0	65.6	348.6	333.8	337.0
24 Duluth—Superior	55.4	53.2	52.9	(1)	(1)	(1)	1.7	1.2	1.4	5.3	4.7	4.7
25 Minneapolis—St. Paul	1,079.4	1,063.2	1,072.2	(1)	(1)	(1)	38.5	34.4	36.9	236.5	229.1	230.4
26 Rochester	51.7	51.7	52.3	(2)	(2)	(2)	1.8	1.4	1.7	10.0	9.9	10.1
27 St. Cloud	54.5	56.0	54.6	(1)	(1)	(1)	2.9	2.8	2.9	10.3	10.2	10.2
28 MISSISSIPPI	791.6	790.2	790.3	12.1	10.8	10.9	41.2	40.7	41.4	207.6	200.3	202.6
29 Jackson	144.8	145.3	145.5	2.2	2.0	2.0	6.0	6.1	6.7	16.8	16.0	16.0
30 MISSOURI	1,933.1	1,921.2	1,922.2	7.3	6.9	6.9	78.5	74.9	78.5	407.9	399.9	404.0
31 Kansas City	610.3	597.0	606.0	.5	.5	.5	19.7	18.6	21.7	110.5	108.1	109.2
32 St. Joseph	37.0	36.8	37.1	(2)	(2)	(2)	1.3	1.1	1.2	9.2	9.3	9.5
33 St. Louis	991.4	976.7	971.9	2.6	2.9	3.0	44.3	43.3	44.6	219.5	211.4	213.7
34 Springfield	87.2	88.9	88.5	(2)	(2)	(2)	3.5	3.4	3.8	18.5	17.7	18.0
35 MONTANA	278.5	267.6	272.4	9.5	7.1	7.4	14.1	10.4	11.8	20.8	19.9	20.6
36 NEBRASKA	610.2	595.2	597.0	1.8	1.7	1.8	22.6	20.0	21.1	86.2	80.8	81.8
37 Lincoln	97.1	93.5	92.0	(2)	(2)	(2)	2.8	2.5	2.7	12.2	11.2	11.3
38 Omaha	260.8	255.5	258.1	(2)	(2)	(2)	8.9	8.0	8.5	32.4	31.3	31.9
39 NEVADA	407.3	412.4	414.6	6.9	6.0	6.2	21.6	21.1	22.0	19.0	18.5	18.7
40 Las Vegas	225.4	233.3	233.6	.5	.4	.4	12.5	12.7	13.1	6.6	6.8	6.9
41 Reno	114.2	114.7	115.3	.6	.6	.7	5.7	5.4	5.6	7.9	7.6	7.7
42 NEW HAMPSHIRE	400.3	393.3	401.3	(2)	(2)	(2)	24.5	23.1	25.0	113.1	112.3	113.3
43 Manchester	75.9	76.9	77.8	(2)	(2)	(2)	3.3	3.0	3.1	16.6	16.9	17.1
44 Nashua	69.3	70.2	71.4	(2)	(2)	(2)	3.0	2.9	3.1	31.9	32.7	33.4
45 NEW JERSEY	3,142.4	3,085.0	3,129.2	2.3	2.2	2.3	112.3	104.2	106.9	736.1	703.5	707.4
46 Atlantic City	105.4	103.6	106.7	-	-	-	4.0	4.4	4.3	7.5	7.1	7.2
47 Camden ⁵	349.7	345.8	349.1	.1	.1	.1	13.0	12.5	13.0	69.7	67.9	68.7
48 Hackensack ⁶	407.7	400.1	404.2	(1)	(1)	(1)	14.6	12.7	13.1	105.1	99.6	100.0
49 Jersey City ⁶	218.7	210.9	212.7	-	-	-	4.4	3.5	3.7	62.6	57.6	58.6
50 Long Branch—Asbury Park	174.9	170.1	174.6	(1)	(1)	(1)	6.6	7.1	7.3	24.4	23.0	23.4
51 New Bruns.—Perth Amboy—Sayreville ⁶	295.7	289.6	290.0	(1)	(1)	(1)	10.1	9.1	9.2	84.5	77.7	77.2
52 Newark ⁶	951.0	933.6	940.3	.9	.8	.8	32.1	29.4	29.9	234.2	224.9	225.5
53 Paterson—Clifton—Passaic ⁶	189.0	189.7	191.1	(1)	(1)	(1)	7.2	7.3	7.2	63.5	62.9	63.7
54 Trenton	164.0	162.3	163.1	(1)	(1)	(1)	3.2	2.9	3.1	32.1	29.8	30.0
55 Vineland—Millville—Bridgeton	52.4	49.0	49.3	(1)	(1)	(1)	1.6	1.4	1.3	16.4	13.6	13.6
56 NEW MEXICO	475.2	480.2	482.2	26.7	21.0	20.4	32.9	35.1	38.1	34.0	33.1	33.5
57 Albuquerque	189.7	195.0	195.0	(1)	(1)	(1)	11.8	12.3	12.8	18.0	17.9	18.1
58 Las Cruces	30.4	32.7	32.0	(1)	(1)	(1)	1.6	2.1	2.3	2.9	2.8	2.8
59 NEW YORK	7,320.3	7,220.2	7,264.5	6.6	6.5	6.7	225.9	216.8	225.4	1,384.5	1,304.7	1,315.7
60 Albany—Schenectady—Troy	338.9	334.0	333.6	(1)	(1)	(1)	11.1	10.3	10.8	53.0	50.5	51.0
61 Binghamton	118.7	115.8	117.0	(1)	(1)	(1)	4.0	3.6	3.8	43.9	41.2	42.0
62 Buffalo	481.4	459.6	461.0	(1)	(1)	(1)	16.9	14.9	15.8	116.8	103.3	103.1

See footnotes at end of table.

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	
121.2	117.7	119.5	581.0	572.4	581.1	171.3	170.9	175.1	681.1	714.6	696.5	369.4	375.1	369.4	1
71.8	69.4	70.0	320.4	321.1	322.4	119.0	119.7	122.3	441.6	465.3	450.4	186.2	186.6	185.9	2
3.7	3.7	3.8	15.8	15.6	15.7	2.2	2.2	2.3	10.6	11.1	10.9	11.5	11.8	11.6	3
1.7	1.7	1.6	11.3	11.0	11.0	3.1	2.6	2.6	9.4	8.9	8.9	7.1	6.9	6.9	4
4.7	4.7	4.8	22.7	22.9	23.2	4.3	4.4	4.7	19.8	20.4	20.3	16.9	16.9	16.6	5
3.4	3.3	3.4	16.6	16.6	16.5	2.3	2.2	2.2	13.7	13.8	13.8	12.3	12.1	11.9	6
2.3	2.1	2.2	12.6	12.5	12.5	2.1	2.2	2.2	11.0	11.4	11.5	10.5	10.6	10.6	7
9.2	8.6	8.6	48.3	46.8	46.8	13.8	13.9	13.8	48.3	50.2	48.7	43.7	47.2	45.7	8
7.4	6.9	7.2	34.9	33.2	33.4	10.6	10.3	10.6	36.2	39.3	39.2	23.3	23.0	22.6	9
144.8	137.5	138.9	694.7	681.8	687.3	153.9	150.7	152.0	657.6	655.9	660.5	575.0	592.0	574.9	10
3.2	3.1	3.1	19.9	20.2	19.9	3.9	4.0	4.1	25.8	25.4	25.5	40.8	42.8	41.0	11
2.2	2.2	2.2	10.0	10.1	10.2	4.1	4.1	4.1	12.1	12.0	12.1	11.3	12.2	12.1	12
1.6	1.6	1.6	8.5	8.8	8.9	1.3	1.2	1.2	6.8	6.5	6.7	4.9	4.7	4.7	13
2.0	1.9	2.0	10.9	10.5	10.6	1.9	1.9	1.9	12.2	11.9	11.6	7.4	7.8	7.6	14
76.4	71.0	71.5	352.0	341.9	343.9	89.6	87.4	88.3	353.3	357.1	358.6	233.3	228.9	226.6	15
6.5	6.0	6.0	38.6	38.9	39.1	6.3	6.3	6.3	29.4	30.1	30.4	29.0	28.6	27.6	16
11.2	11.3	11.3	64.9	64.7	64.7	10.9	10.8	10.8	50.3	51.7	50.6	30.0	30.2	29.4	17
5.0	5.1	5.1	10.2	9.3	9.5	1.6	1.6	1.6	9.5	9.6	9.6	7.9	8.2	8.0	18
4.0	3.8	3.8	21.7	21.6	21.7	4.0	3.9	4.0	22.0	21.0	21.2	18.1	18.8	18.0	19
5.2	5.3	5.2	35.0	35.9	35.7	9.4	9.5	9.6	30.2	31.0	32.1	65.9	65.5	64.4	20
2.9	2.8	2.9	11.2	11.1	11.2	1.5	1.5	1.5	11.1	11.0	11.1	9.5	9.4	8.8	21
4.6	4.4	4.4	17.0	17.4	17.6	3.9	3.7	3.7	14.7	14.5	14.7	10.5	12.0	11.2	22
93.4	94.4	93.4	439.5	430.8	435.9	99.1	98.1	98.9	384.2	389.3	390.0	293.0	292.8	287.7	23
5.8	5.1	5.0	14.8	14.2	14.2	2.1	2.0	2.0	14.2	13.8	13.8	11.5	12.1	11.7	24
58.9	59.8	59.5	266.1	261.8	265.5	73.8	73.1	73.7	249.6	251.8	253.3	156.1	153.2	152.9	25
1.9	1.8	1.9	10.4	10.0	10.1	1.5	1.5	1.5	20.6	21.3	21.2	5.4	5.7	5.9	26
3.4	3.3	3.2	15.5	15.5	15.5	1.9	2.0	2.0	10.5	10.5	10.4	10.1	11.7	10.4	27
39.9	38.6	38.7	163.2	161.8	162.4	33.2	33.0	33.2	120.0	124.2	124.4	174.3	180.7	176.7	28
10.1	10.1	10.0	34.9	34.5	34.6	11.5	11.3	11.4	30.0	30.9	30.3	33.2	34.4	34.4	29
132.0	127.2	127.7	462.6	459.7	459.4	109.8	107.6	108.6	409.8	415.0	419.4	325.2	330.0	317.7	30
50.6	47.6	48.1	157.1	154.9	156.6	44.2	43.7	44.5	137.1	132.7	135.2	90.6	90.9	90.2	31
2.3	1.9	1.9	8.7	9.0	9.0	2.1	2.1	2.1	7.5	7.3	7.4	5.9	6.1	6.0	32
70.4	68.5	68.8	229.6	228.1	228.6	59.1	58.7	58.8	227.5	227.5	230.0	138.7	136.3	124.4	33
7.0	7.0	7.0	23.8	24.3	24.4	3.8	3.7	3.7	19.5	20.6	20.4	11.1	12.2	11.2	34
22.5	20.1	20.4	74.0	72.2	72.4	13.0	12.7	13.0	57.3	53.7	54.4	67.3	71.6	72.4	35
44.6	42.0	42.6	157.6	155.4	154.9	41.7	41.4	41.9	124.1	123.7	123.3	131.4	130.0	129.7	36
7.1	6.5	6.6	20.9	20.2	20.1	7.1	7.1	7.1	17.6	18.2	18.3	29.4	27.7	25.8	37
23.1	22.0	22.3	67.2	65.9	66.1	24.0	24.0	24.3	63.6	63.5	63.4	41.5	40.8	41.7	38
25.0	23.8	24.0	81.1	82.5	83.4	18.1	18.2	18.2	177.2	183.1	184.7	58.4	59.2	57.4	39
13.9	13.4	13.5	45.9	47.2	47.4	10.2	10.4	10.5	108.2	114.5	114.6	27.7	27.9	27.2	40
8.2	7.8	7.8	24.6	25.0	25.4	6.2	6.1	6.1	44.6	45.3	45.8	16.4	16.9	16.2	41
14.9	14.9	15.1	90.7	88.5	91.1	21.2	21.0	21.2	80.0	77.3	79.8	55.9	56.2	55.8	42
5.0	5.2	5.3	20.0	20.2	20.5	6.3	6.4	6.4	16.1	16.4	16.6	8.6	8.8	8.8	43
2.1	2.1	2.2	13.3	13.8	13.9	2.1	2.1	2.1	11.1	11.0	11.2	5.8	5.6	5.5	44
199.0	197.8	200.2	713.4	701.6	716.5	168.9	167.4	169.6	677.6	679.3	693.5	532.7	529.0	532.8	45
4.7	4.7	4.7	20.7	19.3	20.8	4.9	4.8	4.8	46.8	46.9	48.4	16.9	16.4	16.5	46
16.0	15.6	15.6	90.8	90.0	91.0	17.3	17.2	17.6	73.9	74.0	74.4	68.8	68.5	68.7	47
21.5	21.2	21.7	121.2	121.1	121.8	19.6	19.6	20.1	81.5	81.1	81.6	44.1	44.8	45.9	48
24.7	24.0	24.2	44.6	44.1	44.2	8.2	8.2	8.3	33.6	33.2	33.1	40.6	40.3	40.6	49
6.8	6.5	6.7	44.3	43.2	45.2	8.2	8.1	8.3	46.8	47.2	48.0	37.9	35.0	35.7	50
24.4	24.6	24.8	70.5	70.9	70.9	13.7	14.1	14.0	46.3	48.0	48.2	46.2	45.2	45.7	51
75.5	74.3	74.4	184.7	183.0	184.1	67.7	67.3	68.1	210.6	210.5	213.4	145.2	143.4	144.1	52
7.1	7.0	7.1	40.8	41.8	42.3	9.9	9.4	9.5	35.2	35.9	36.0	25.4	25.4	25.3	53
5.6	5.3	5.3	25.3	25.5	25.5	8.0	8.1	8.2	42.6	42.7	42.7	47.2	48.0	48.3	54
2.7	2.5	2.6	9.3	9.1	9.1	2.7	2.7	2.7	9.0	8.8	9.0	10.8	10.9	11.0	55
29.6	29.5	28.7	110.2	111.5	112.6	21.9	22.7	23.0	96.9	97.5	99.7	123.0	129.8	126.2	56
11.9	11.6	11.2	48.2	48.5	48.9	11.0	11.4	11.5	47.5	49.3	49.8	41.3	44.0	42.7	57
1.2	1.2	1.1	5.7	6.3	6.2	1.3	1.3	1.3	4.1	4.2	4.2	13.6	14.8	14.1	58
427.6	413.1	414.6	1,470.1	1,461.1	1,475.5	674.8	677.3	683.3	1,820.6	1,845.1	1,851.3	1,310.1	1,295.5	1,292.1	59
15.3	14.2	14.3	67.0	66.7	66.5	16.7	16.5	16.7	75.4	76.2	76.2	100.4	99.7	98.1	60
4.6	4.4	4.4	21.2	21.0	21.3	4.0	4.0	3.9	19.2	19.8	19.5	21.9	21.8	22.0	61
26.4	24.8	25.2	108.0	106.8	107.4	22.7	22.6	22.7	106.3	103.3	103.0	84.3	83.8	83.8	62

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		
	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P
NEW YORK—Continued												
1 Elmira	34.7	33.1	33.4	(1)	(1)	(1)	1.0	1.0	1.2	8.8	7.8	7.9
2 Monroe County ⁷	348.3	336.7	335.0	(1)	(1)	(1)	9.4	8.1	8.6	142.1	127.3	126.7
3 Nassau—Suffolk ⁸	962.1	955.1	968.7	(1)	(1)	(1)	38.4	37.2	38.7	170.1	166.9	168.2
4 New York—Northeastern New Jersey	6,857.0	6,783.4	(*)	2.3	2.4	(*)	213.8	204.7	(*)	1,275.5	1,218.9	(*)
5 New York and Nassau—Suffolk ⁹	4,794.9	4,760.8	4,788.9	1.8	1.9	1.9	145.3	143.2	146.9	725.6	696.1	700.1
6 New York SMSA ⁸	3,832.8	3,805.7	3,820.2	1.6	1.7	1.7	107.0	106.0	108.2	555.5	529.3	531.9
7 New York City ⁹	3,372.6	3,354.6	3,365.4	1.3	1.4	1.4	86.8	85.9	87.9	465.4	443.7	445.9
8 Poughkeepsie	103.6	103.1	104.3	(1)	(1)	(1)	2.8	2.7	2.9	35.2	33.8	34.7
9 Rochester	424.8	411.5	410.1	(1)	(1)	(1)	11.5	10.2	10.9	160.9	144.4	144.2
10 Rockland County ⁹	84.2	83.6	83.8	(1)	(1)	(1)	2.8	2.8	2.9	15.8	15.7	15.9
11 Syracuse	259.4	257.4	259.3	(1)	(1)	(1)	12.4	12.9	13.6	56.7	55.1	55.8
12 Utica—Rome	114.1	111.6	112.2	(1)	(1)	(1)	2.9	2.2	2.6	28.0	26.7	26.9
13 Westchester County ⁹	363.0	355.0	358.3	(1)	(1)	(1)	16.6	16.5	16.6	72.9	68.6	68.7
NORTH CAROLINA	2,349.9	2,346.7	2,367.7	4.8	4.8	4.9	106.0	101.7	103.7	782.0	773.7	781.8
14 Asheville	72.9	71.2	73.4	(1)	(1)	(1)	2.7	2.6	2.7	20.8	20.3	20.5
17 Charlotte—Gastonia	337.9	334.1	336.3	(1)	(1)	(1)	16.6	16.8	17.1	91.2	90.2	90.9
18 Greensboro—Winston-Salem—High Pt.	381.5	381.3	384.8	(1)	(1)	(1)	16.6	15.9	16.2	141.0	141.4	142.8
18 Raleigh—Durham	276.7	278.3	279.6	(1)	(1)	(1)	14.4	14.6	15.2	46.3	45.1	45.8
NORTH DAKOTA	255.3	256.1	258.6	9.5	7.2	7.7	18.5	18.8	20.6	15.1	14.5	14.9
20 Fargo—Moorhead	60.6	62.0	60.9	(2)	(2)	(2)	2.8	2.3	2.6	4.4	4.3	4.4
OHIO	4,191.6	4,114.2	4,128.7	31.4	27.6	29.3	142.9	126.6	132.8	1,119.3	1,074.8	1,078.7
21 Akron	249.5	251.5	247.5	(*)	(*)	(*)	7.4	6.9	7.4	69.5	67.2	67.0
22 Canton	152.2	148.1	148.7	(*)	(*)	(*)	5.0	4.5	4.8	49.5	45.7	46.2
23 Cincinnati	584.0	574.4	577.9	(*)	(*)	(*)	21.6	18.4	19.0	148.6	143.6	144.8
24 Cleveland	859.3	831.3	837.9	(*)	(*)	(*)	26.5	24.2	25.1	227.4	211.4	211.9
25 Columbus	501.1	501.4	504.4	(*)	(*)	(*)	15.0	14.0	14.8	86.6	86.9	87.1
27 Dayton	338.7	335.6	336.6	(*)	(*)	(*)	9.9	9.0	9.4	88.7	86.2	86.5
28 Toledo	285.7	284.4	285.5	(*)	(*)	(*)	11.2	10.2	10.6	70.1	68.3	68.9
29 Youngstown—Warren	186.4	183.5	183.7	(*)	(*)	(*)	5.7	4.8	5.1	55.3	54.8	54.9
OKLAHOMA	1,245.5	1,201.6	1,204.6	112.2	79.9	80.9	60.1	51.1	51.4	186.2	169.0	169.1
30 Enid	28.3	27.9	27.6	3.7	3.2	3.1	1.7	1.8	1.8	2.6	2.2	2.2
32 Lawton	31.2	31.5	31.4	(1)	(1)	(1)	1.4	1.6	1.5	3.2	3.2	3.2
33 Oklahoma City	445.0	450.9	454.0	35.0	30.6	31.0	20.3	19.5	20.2	52.2	53.9	54.2
34 Tulsa	323.0	311.5	311.4	29.2	26.6	26.6	15.8	14.8	14.8	62.8	54.5	54.7
OREGON	978.5	950.8	966.7	1.9	1.4	1.6	31.8	27.0	28.4	186.3	180.6	190.1
35 Eugene—Springfield	93.3	89.6	91.3	(1)	(1)	(1)	2.9	2.2	2.4	16.9	16.9	17.8
36 Medford	-	-	-	-	-	-	-	-	-	6.4	6.9	7.4
38 Portland	529.1	511.8	517.5	(1)	(1)	(1)	17.6	15.6	15.7	99.5	92.2	95.4
39 Salem	82.2	79.4	82.7	(1)	(1)	(1)	2.6	2.6	2.7	12.2	9.9	13.0
PENNSYLVANIA	4,630.5	4,482.6	4,498.3	47.1	41.9	43.3	176.4	147.3	159.0	1,190.5	1,092.4	1,098.2
40 Allentown—Bethlehem—Easton	259.6	245.8	247.6	(1)	(1)	(1)	8.4	6.8	7.1	97.0	87.6	88.5
42 Altoona	49.1	45.6	46.9	(1)	(1)	(1)	1.9	1.9	1.9	11.9	10.7	11.1
43 Delaware Valley ¹⁰	1,561.5	1,543.3	1,547.5	(1)	(1)	(1)	59.2	48.2	51.7	334.6	316.5	319.2
44 Erie	108.4	104.7	104.5	(1)	(1)	(1)	2.9	2.4	2.5	38.1	34.5	34.6
45 Harrisburg	224.1	220.2	222.3	(1)	(1)	(1)	7.7	6.8	7.0	40.7	38.8	39.7
46 Johnstown	79.9	73.5	75.4	7.3	6.0	6.5	2.5	2.5	2.4	14.9	11.9	12.6
47 Lancaster	152.6	149.3	149.8	(1)	(1)	(1)	6.0	5.6	5.7	56.5	53.6	54.3
48 Northeast Pennsylvania	237.5	231.6	233.5	.9	.8	.7	10.7	10.8	11.0	66.1	62.0	61.2
49 Philadelphia SMSA	1,909.6	1,889.0	1,896.1	(1)	(1)	(1)	72.3	60.7	64.7	404.3	384.4	387.7
50 Philadelphia City ¹¹	750.6	746.2	742.9	(1)	(1)	(1)	18.1	15.7	16.7	116.4	112.1	113.0
51 Pittsburgh	901.7	849.7	857.4	9.2	7.8	8.0	42.6	39.6	42.5	198.7	166.9	169.3
52 Reading	136.9	134.4	135.0	(1)	(1)	(1)	4.7	4.2	4.3	50.4	49.0	49.9
53 Sharon	43.2	39.6	40.0	(1)	(1)	(1)	1.2	1.0	1.0	13.4	10.3	10.4
54 State College	45.3	46.0	42.7	-	-	-	1.6	1.2	1.3	7.7	7.1	7.0
55 Williamsport	46.1	43.5	43.4	(1)	(1)	(1)	1.2	1.2	1.2	16.6	14.2	13.8
56 York	150.9	149.0	147.3	(1)	(1)	(1)	6.2	5.7	5.9	58.6	57.6	56.6
RHODE ISLAND	396.1	392.3	395.8	(1)	(1)	(1)	12.1	12.3	12.8	117.9	116.1	117.6
58 Providence—Warwick—Pawtucket	397.9	395.3	399.4	(1)	(1)	(1)	12.2	12.4	12.9	129.8	127.5	129.6
SOUTH CAROLINA	1,170.6	1,174.9	1,180.4	1.8	1.7	1.8	66.4	66.3	68.6	359.5	350.6	353.0
59 Charleston—North Charleston	155.3	153.6	154.5	-	-	-	11.6	10.5	10.5	19.5	19.6	19.3
60 Columbia	181.9	182.1	178.1	-	-	-	9.2	9.8	10.0	25.8	25.4	25.4
61 Greenville—Spartanburg	261.8	256.5	259.0	-	-	-	16.6	14.0	14.3	98.5	93.7	94.5

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	
1.4	1.3	1.3	8.6	8.2	8.4	1.1	1.1	1.1	7.6	7.5	7.4	6.3	6.2	6.2	1
10.6	10.3	10.4	60.8	62.9	63.3	14.8	14.8	15.1	71.0	74.3	71.9	39.6	38.9	39.0	2
43.2	43.4	43.6	247.5	249.2	254.0	53.9	52.9	53.3	232.5	232.7	238.5	176.6	172.8	172.4	3
471.4	463.2	(*)	1,423.9	1,415.4	(*)	685.2	687.1	(*)	1,709.6	1,727.3	(*)	1,075.3	1,064.4	(*)	4
318.3	312.0	312.7	962.0	955.1	962.3	566.3	568.9	573.2	1,301.9	1,318.5	1,327.8	773.7	765.2	763.9	5
275.0	268.6	269.1	714.5	705.9	708.3	512.4	516.0	520.0	1,069.6	1,086.0	1,089.5	597.1	592.3	591.5	6
250.9	245.2	246.4	608.4	601.2	603.1	488.8	492.8	496.4	952.9	968.9	970.5	518.1	515.5	513.8	7
3.0	2.9	2.9	17.0	17.1	17.4	3.1	3.1	3.1	19.2	20.2	20.4	23.4	23.3	22.9	8
13.1	12.7	12.9	78.0	80.3	80.8	16.5	16.4	16.8	83.8	87.4	84.9	60.9	60.1	59.8	9
3.5	3.5	2.7	18.3	17.8	18.1	2.8	2.8	2.9	19.2	19.7	20.0	21.7	21.4	21.3	10
14.6	14.5	14.6	57.6	56.9	57.5	17.0	17.0	17.2	52.3	53.6	52.4	48.8	47.5	48.3	11
4.0	3.9	3.9	22.9	22.9	23.3	5.7	5.6	5.7	21.5	21.7	21.3	29.1	28.6	28.6	12
20.0	19.4	19.4	84.7	83.9	84.2	20.2	19.9	20.2	94.5	94.5	95.9	54.0	52.3	53.2	13
115.8	114.2	115.1	475.7	477.3	480.8	98.2	99.0	100.3	360.2	368.0	372.6	407.2	408.0	408.5	14
3.5	3.5	3.6	15.6	15.6	15.8	2.2	2.3	2.3	16.1	14.9	16.4	12.0	12.0	12.1	15
32.2	31.4	31.6	83.1	81.3	81.6	22.6	21.9	22.0	56.2	56.8	57.2	36.0	35.7	35.9	16
20.4	20.2	20.4	79.0	78.6	79.1	18.5	18.1	18.4	58.8	59.3	59.8	47.2	47.8	48.1	17
14.0	14.3	14.4	52.9	53.1	53.2	15.5	15.4	15.5	61.8	62.8	63.0	71.8	73.0	72.5	18
16.9	16.5	16.7	68.3	67.8	68.4	11.9	11.9	12.0	54.4	56.1	56.5	60.7	63.3	61.8	19
4.0	3.7	3.7	18.1	18.0	18.0	3.8	3.8	3.9	14.8	16.2	15.5	12.7	13.7	12.8	20
211.0	197.7	198.8	944.3	929.9	933.9	208.0	207.5	209.4	871.2	880.2	888.1	663.5	669.9	657.7	21
13.3	12.7	12.9	58.6	58.7	59.1	9.4	9.2	9.3	53.5	52.7	54.3	37.0	43.4	36.9	22
6.6	6.1	6.1	34.0	34.1	34.3	6.5	6.4	6.5	31.0	31.6	31.8	18.2	18.4	17.6	23
32.7	31.4	31.5	139.2	138.4	138.4	32.5	32.1	32.2	127.5	129.8	131.8	81.6	80.2	79.7	24
44.1	41.8	42.1	197.8	192.7	193.9	48.8	47.7	48.1	193.7	196.6	197.7	119.7	115.8	118.0	25
23.6	22.0	22.1	120.6	120.0	120.3	41.3	42.1	42.5	110.8	113.4	114.5	102.6	102.2	102.4	26
13.2	12.3	12.3	72.3	71.3	71.3	13.5	13.6	13.6	73.9	75.0	76.5	67.0	68.0	66.8	27
18.3	17.4	17.5	65.8	64.1	64.7	10.8	11.0	11.0	63.7	65.5	65.7	45.4	47.4	46.4	28
8.4	7.8	7.9	44.5	42.7	42.9	7.1	7.2	7.3	39.7	40.9	41.1	24.7	24.3	23.5	29
72.7	68.4	68.5	296.8	296.8	298.3	62.3	63.3	64.1	222.0	227.4	229.3	233.2	245.7	243.0	30
2.8	2.8	2.8	7.9	7.7	7.8	1.2	1.2	1.2	5.0	5.1	5.1	3.4	3.9	3.6	31
1.4	1.5	1.5	7.7	7.5	7.5	1.4	1.5	1.5	5.6	5.5	5.5	10.5	10.7	10.7	32
25.1	24.9	25.2	110.2	113.8	113.8	27.6	28.1	28.3	83.5	86.5	87.0	91.1	93.6	94.3	33
23.2	23.3	23.3	73.8	72.2	72.4	16.4	16.3	16.4	67.7	69.4	69.8	34.1	34.4	33.4	34
57.2	55.3	55.2	240.6	238.1	240.8	65.8	63.6	64.0	190.2	186.2	187.8	204.7	198.6	198.8	35
4.6	4.8	4.7	23.0	21.9	22.3	4.6	4.3	4.4	19.0	18.5	18.7	22.3	21.0	21.0	36
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37
36.1	34.7	34.8	136.5	134.7	135.4	44.2	43.0	43.2	111.4	108.7	109.8	83.8	82.9	83.2	38
2.7	2.5	2.6	18.2	17.9	18.3	5.4	5.5	5.5	14.6	14.7	14.4	26.5	26.3	26.2	39
251.6	242.7	240.7	982.5	966.4	974.3	241.8	239.2	242.5	1,054.4	1,068.0	1,067.9	686.2	684.7	672.4	40
13.6	13.0	13.1	52.1	49.5	49.4	9.7	9.6	9.7	49.5	50.4	50.5	29.3	28.8	29.3	41
6.2	5.2	5.5	10.7	10.1	10.2	1.5	1.5	1.5	9.4	9.3	9.5	7.5	6.9	7.2	42
80.1	77.0	77.2	329.9	334.1	335.2	110.8	110.2	110.8	419.3	430.2	427.6	227.6	227.1	225.8	43
4.7	4.5	4.6	21.8	21.0	21.2	4.8	4.8	4.8	23.8	24.9	24.7	12.3	12.6	12.1	44
16.4	15.2	15.0	46.0	45.6	46.6	13.1	13.1	13.2	43.9	44.0	44.6	56.3	56.7	56.2	45
4.9	4.9	4.8	15.5	14.8	14.8	3.9	3.9	4.0	16.7	16.7	17.0	14.2	12.8	13.3	46
6.4	6.5	6.8	35.4	35.1	35.3	5.7	5.5	5.5	28.3	28.3	28.1	14.3	14.7	14.1	47
13.1	12.4	12.5	49.7	49.4	50.5	10.1	10.3	10.4	50.1	49.6	50.7	36.8	36.3	36.5	48
95.6	92.6	92.7	420.6	424.2	426.0	128.0	127.4	128.4	492.4	504.2	502.0	296.4	295.5	294.6	49
49.6	47.8	47.7	138.0	138.1	137.0	65.4	64.8	65.0	222.1	227.2	223.1	141.0	140.5	140.4	50
52.7	49.0	48.7	207.7	200.5	202.6	47.5	46.9	47.4	231.0	230.8	229.9	112.3	108.2	109.0	51
6.4	6.3	6.3	27.7	27.1	27.1	6.3	6.0	6.2	25.0	24.7	24.9	16.4	17.1	16.3	52
2.9	2.6	2.6	9.3	9.3	9.4	1.4	1.4	1.4	9.7	9.8	9.9	5.3	5.2	5.3	53
1.1	1.1	1.1	8.4	8.5	8.4	1.4	1.4	1.5	6.5	6.3	6.5	18.2	20.1	16.6	54
2.2	2.1	2.1	9.3	9.2	9.3	2.2	2.2	2.2	8.3	8.4	8.5	6.3	6.2	6.3	55
7.2	6.9	6.8	33.3	33.4	33.5	4.1	4.2	4.2	23.4	23.3	23.4	18.1	17.9	16.9	56
13.8	13.3	13.4	82.0	79.5	80.7	21.3	21.3	21.4	91.2	92.2	92.3	57.8	57.6	57.6	57
13.7	12.7	12.9	79.1	78.1	78.9	21.1	20.9	21.2	87.3	89.8	90.0	54.7	53.9	53.9	58
54.1	56.1	56.2	235.1	233.2	235.2	50.1	51.4	52.2	174.2	178.5	180.8	229.4	237.1	232.6	59
9.6	9.3	9.1	34.3	34.9	35.2	7.0	7.2	7.2	27.0	27.4	27.9	46.2	44.7	45.3	60
9.7	9.4	9.5	38.0	37.6	37.7	14.4	14.4	14.6	30.8	30.1	30.0	53.6	55.1	50.6	61
9.6	9.1	9.1	53.3	53.0	53.9	10.3	10.3	10.7	38.9	40.2	39.6	34.3	35.9	36.6	62

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		
	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P
1 SOUTH DAKOTA	237.2	233.7	239.0	1.5	2.9	3.0	9.2	8.1	9.2	24.7	25.0	25.7
2 Sioux Falls	54.4	55.4	56.1	(2)	(2)	(2)	2.2	2.0	2.3	7.2	8.3	8.5
3 TENNESSEE	1,702.7	1,673.6	1,680.0	10.2	8.6	8.7	74.2	61.5	63.0	470.3	463.3	466.5
4 Chattanooga	166.2	163.4	163.7	1.4	1.3	1.3	5.8	6.6	6.4	44.7	41.9	42.1
5 Knoxville	209.5	200.0	200.4	1.7	1.3	1.2	9.7	9.0	9.1	49.8	48.5	48.6
6 Memphis	348.4	342.4	342.7	.1	.2	.2	12.2	11.2	11.5	54.4	51.5	50.9
7 Nashville—Davidson	365.0	363.4	366.5	(1)	(1)	(1)	19.2	19.0	19.8	77.9	76.9	76.9
8 TEXAS	5,318.1	6,163.7	6,174.6	315.3	286.8	290.6	432.5	394.0	395.6	1,076.1	996.0	1,000.5
9 Abilene	59.9	60.4	60.8	5.4	5.0	5.0	3.6	3.5	3.6	6.2	6.6	6.4
10 Amarillo	75.1	78.1	78.1	(1)	(1)	(1)	3.9	3.0	3.2	10.2	10.9	11.0
11 Austin	260.8	270.9	263.7	(1)	(1)	(1)	14.2	14.9	15.3	33.4	33.2	33.4
12 Beaumont—Port Arthur—Orange	149.5	145.1	145.0	(1)	(1)	(1)	12.2	10.1	10.5	35.3	34.1	34.2
13 Brownsville—Harlingen—San Benito	64.0	58.1	58.0	(1)	(1)	(1)	4.1	3.2	3.2	11.3	8.8	8.7
14 Bryan—College Station	41.9	43.8	41.3	1.8	1.5	1.5	3.0	2.7	2.8	3.3	3.1	3.1
15 Corpus Christi	136.3	133.5	133.3	9.8	9.1	9.1	12.7	12.1	12.4	15.9	14.9	14.9
16 Dallas—Fort Worth	1,543.2	1,565.7	1,572.8	32.7	32.7	33.3	87.1	83.8	86.0	317.4	308.7	311.1
17 El Paso	167.8	165.9	166.0	(1)	(1)	(1)	8.3	7.6	7.9	38.7	38.5	38.8
18 Galveston—Texas City	71.1	69.1	69.3	(1)	(1)	(1)	4.8	4.8	4.8	11.8	10.9	10.9
19 Houston	1,623.3	1,546.3	1,547.7	113.9	104.3	105.7	148.7	134.1	132.4	263.8	228.0	227.3
20 Killeen—Temple	60.2	61.3	61.4	(1)	(1)	(1)	3.2	3.4	3.4	8.0	8.3	8.3
21 Laredo	35.5	29.8	29.8	(1)	(1)	(1)	2.1	1.5	1.3	2.0	1.7	1.8
22 Longview—Marshall	71.2	67.6	67.7	(1)	(1)	(1)	4.9	4.4	4.5	18.0	16.1	16.3
23 Lubbock	88.1	88.7	86.9	(1)	(1)	(1)	4.2	4.0	4.2	12.0	11.0	10.9
24 McAllen—Pharr—Edinburg	79.3	77.5	77.0	1.9	1.6	1.6	6.0	5.7	5.6	8.9	8.7	9.0
25 Midland	54.1	52.0	52.2	13.7	12.8	12.9	4.8	4.3	4.3	5.0	4.1	3.9
26 Odessa	61.0	54.7	55.1	8.8	7.8	7.8	6.1	5.2	5.1	8.4	6.0	6.0
27 San Angelo	37.0	35.7	35.5	1.1	.7	.6	2.2	2.1	2.2	6.4	5.3	5.3
28 San Antonio	421.1	430.6	431.1	3.4	3.3	3.4	27.2	28.5	29.0	50.9	48.7	49.4
29 Sherman—Denison	35.1	33.4	33.2	.2	.2	.2	1.5	1.5	1.4	11.8	10.8	10.8
30 Texarkana	45.1	45.7	46.0	.2	.2	.2	1.9	2.3	2.4	8.3	8.1	8.1
31 Tyler	56.5	55.7	55.9	3.5	3.0	3.1	2.3	2.4	2.5	12.3	10.7	10.7
32 Waco	71.7	71.6	70.6	(1)	(1)	(1)	3.6	3.6	3.6	15.7	15.2	15.3
33 Wichita Falls	55.2	52.9	53.1	3.8	3.2	3.2	2.2	2.1	2.1	10.3	8.8	8.7
34 UTAH	563.6	559.2	561.7	18.8	13.9	14.1	28.4	27.0	28.5	87.6	83.8	85.3
35 Salt Lake City—Ogden	398.1	396.5	397.4	6.8	5.8	5.8	18.6	17.4	18.4	60.8	58.2	58.9
36 VERMONT	202.0	202.4	203.6	.7	.7	.8	10.7	10.5	11.5	49.3	47.8	48.7
37 Burlington ¹²	59.6	60.9	59.8	-	-	-	-	-	-	16.2	15.7	15.8
38 Springfield ¹²	13.9	12.8	13.2	-	-	-	-	-	-	5.2	4.1	4.3
39 VIRGINIA	2,148.8	2,151.3	2,174.1	23.2	20.5	20.8	103.1	104.0	107.4	397.3	397.9	403.0
40 Bristol	26.6	26.4	26.4	(1)	(1)	(1)	.9	.9	1.0	9.1	8.1	8.2
41 Lynchburg	69.5	68.2	68.6	(1)	(1)	(1)	2.5	2.6	2.6	26.7	25.8	26.1
42 Newport News—Hampton	153.3	157.2	160.8	(1)	(1)	(1)	6.3	6.2	6.5	35.7	38.8	39.7
43 Norfolk—Virginia Beach—Portsmouth	293.5	296.4	301.0	(1)	(1)	(1)	16.5	18.3	18.8	28.0	25.9	26.5
44 Northern Virginia ¹³	477.9	490.4	495.5	.6	.6	.6	24.4	25.7	27.4	21.9	23.8	24.1
45 Petersburg—Colonial Hgts.—Hopewell	44.3	43.3	43.8	(1)	(1)	(1)	1.8	2.1	2.2	9.6	8.1	8.2
46 Richmond	325.2	325.3	327.3	.3	.3	.3	16.2	15.5	15.8	55.3	55.1	55.0
47 Roanoke	102.9	103.5	104.8	.1	.1	.1	4.9	5.2	5.1	19.6	20.2	20.3
48 WASHINGTON	1,594.3	1,581.9	1,599.5	3.3	2.8	2.9	78.0	77.7	79.2	292.6	277.0	280.3
49 WEST VIRGINIA	614.2	585.7	584.3	65.3	50.8	49.7	25.5	27.4	27.1	100.5	91.1	91.3
50 Charleston	109.8	104.5	103.6	6.2	4.6	4.4	5.2	5.2	4.4	16.4	14.4	14.5
51 Huntington—Ashland	97.6	94.3	93.7	1.0	1.0	1.1	4.9	4.9	5.0	22.1	19.4	19.6
52 Parkersburg—Marletta	56.2	55.3	55.7	1.5	1.2	1.2	1.9	3.3	3.4	15.4	14.7	15.0
53 Wheeling	62.8	58.1	58.3	4.8	2.7	2.8	2.6	2.5	2.6	10.0	8.3	8.3
54 WISCONSIN	1,882.4	1,849.7	1,874.9	2.0	2.2	2.5	55.1	47.4	51.1	494.1	472.3	482.5
55 Appleton—Oshkosh	121.7	120.5	122.0	(1)	(1)	(1)	4.5	3.8	4.1	43.3	42.6	43.6
56 Eau Claire	47.3	48.3	47.5	(1)	(1)	(1)	1.1	1.1	1.2	9.0	8.7	9.1
57 Green Bay	78.4	77.6	79.0	(1)	(1)	(1)	3.1	2.4	2.6	21.1	20.7	21.0
58 Janesville—Beloit	50.1	48.7	50.3	(1)	(1)	(1)	1.7	.8	.9	17.8	16.4	18.4
59 Kenosha	37.8	41.8	42.1	(1)	(1)	(1)	1.6	1.3	1.2	12.1	17.4	17.9
60 La Crosse	45.0	46.5	45.7	(1)	(1)	(1)	1.2	.9	1.0	10.2	9.7	9.7
61 Madison	168.7	169.7	169.4	(1)	(1)	(1)	5.5	4.3	4.3	19.8	18.6	18.9
62 Milwaukee	638.0	613.2	618.1	(1)	(1)	(1)	15.5	13.0	13.4	172.4	159.6	160.5
63 Racine	62.6	59.9	60.7	(1)	(1)	(1)	1.5	1.2	1.2	23.6	22.2	22.6

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			
JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	
12.6	12.3	12.3	63.7	62.5	63.2	11.9	12.0	11.8	53.6	52.7	54.4	60.0	58.2	59.4	1
4.6	4.6	4.6	15.5	15.3	15.3	4.0	4.2	4.1	13.9	14.2	14.4	7.0	6.8	6.9	2
83.3	81.0	82.0	367.9	362.8	365.6	80.9	79.4	79.4	325.1	320.5	322.1	290.8	296.4	292.7	3
7.7	7.1	7.2	35.3	35.1	35.4	10.1	10.6	10.7	30.0	29.7	29.4	31.2	31.1	31.2	4
7.9	7.6	7.5	46.9	44.4	44.3	9.0	8.3	8.3	38.8	36.8	37.4	45.7	44.1	44.0	5
26.5	25.0	25.2	95.2	94.2	94.3	19.4	20.0	20.3	79.0	78.6	78.9	61.6	61.7	61.4	6
19.5	18.7	18.7	87.2	84.9	86.0	25.5	24.9	25.1	76.8	78.0	78.3	58.9	61.0	61.7	7
387.5	376.2	377.5	1,559.2	1,522.0	1,528.7	368.3	371.6	375.5	1,166.5	1,168.2	1,170.9	1,012.7	1,048.9	1,035.3	8
3.3	3.3	3.3	16.1	15.6	15.8	3.1	3.1	3.1	13.0	13.7	13.9	9.2	9.6	9.7	9
6.6	6.5	6.5	22.4	23.7	24.2	4.0	4.1	4.2	16.4	16.8	16.7	11.6	13.1	12.3	10
8.0	7.6	7.7	59.5	61.4	61.6	17.4	17.2	17.2	53.6	54.3	54.5	74.7	82.3	74.0	11
12.6	12.5	12.6	34.4	33.7	33.9	5.9	5.8	5.8	29.1	28.7	28.7	20.0	20.2	19.3	12
3.9	3.4	3.4	18.8	17.0	17.1	3.0	3.0	3.0	10.7	10.5	10.5	12.2	12.2	12.1	13
1.9	2.1	2.0	9.2	9.0	9.1	1.7	1.8	1.8	5.8	6.0	5.9	15.2	17.6	15.1	14
8.1	7.5	7.4	33.5	32.4	32.5	6.5	6.5	6.5	24.7	24.0	23.5	25.1	27.0	27.0	15
97.4	98.2	99.0	414.1	423.8	425.8	118.5	119.6	120.8	298.4	315.9	319.1	177.6	183.0	177.7	16
10.8	10.5	10.5	41.9	39.9	39.9	7.8	7.8	7.8	27.0	27.5	27.5	33.3	34.1	33.6	17
6.6	6.3	6.4	13.3	13.0	13.1	4.6	4.4	4.4	11.6	11.2	11.4	18.4	18.5	18.3	18
111.6	106.9	107.4	385.9	369.7	370.3	101.1	102.2	103.3	326.8	323.4	327.4	171.5	177.7	173.9	19
3.2	3.2	3.2	13.9	13.5	13.7	2.3	2.3	2.3	11.0	11.4	11.4	18.6	19.2	19.1	20
4.1	3.2	3.2	12.7	9.4	9.3	1.5	1.5	1.5	6.3	5.8	5.9	6.8	6.7	6.8	21
3.8	3.8	3.8	17.7	17.0	17.1	2.8	2.9	2.9	16.4	15.7	15.7	7.6	7.7	7.4	22
4.7	4.6	4.6	25.9	25.8	25.7	4.9	5.2	5.2	17.7	17.6	17.6	18.7	20.5	18.7	23
2.9	2.6	2.6	27.3	24.4	24.1	3.0	3.1	3.2	9.9	9.8	9.7	19.4	21.6	21.2	24
3.2	3.1	3.1	11.2	10.9	11.3	3.2	3.5	3.5	8.5	8.6	8.8	4.5	4.7	4.4	25
3.3	2.8	2.8	17.2	14.9	14.9	2.3	2.4	2.5	8.3	8.4	8.5	6.6	7.2	7.5	26
3.8	3.7	3.7	8.7	8.8	8.7	1.5	1.5	1.5	7.3	7.2	7.4	6.0	6.4	6.1	27
18.4	18.7	18.6	108.4	110.9	111.5	29.0	29.4	29.7	89.4	93.8	93.5	94.4	97.3	96.0	28
2.3	2.4	2.4	7.2	7.0	7.0	1.2	1.2	1.1	5.9	5.6	5.6	5.0	4.7	4.7	29
2.2	2.1	2.1	10.7	11.0	11.1	1.6	1.6	1.6	7.5	7.4	7.5	12.7	13.0	13.0	30
2.7	2.8	2.8	14.4	14.9	15.0	3.0	3.2	3.2	11.2	11.1	11.1	7.1	7.6	7.5	31
3.4	3.3	3.4	17.0	17.4	17.5	4.5	4.6	4.6	15.5	15.6	15.0	12.0	11.9	11.2	32
3.0	3.0	3.0	13.5	13.3	13.3	2.5	2.6	2.6	9.1	9.0	9.2	10.8	10.9	11.0	33
36.1	35.4	35.7	132.8	131.6	132.3	26.6	27.2	27.3	107.8	109.5	110.6	125.5	130.8	127.8	34
28.0	27.7	27.9	98.1	96.1	96.6	21.5	22.2	22.3	74.4	76.4	77.3	89.8	92.6	90.2	35
8.8	8.8	9.0	43.1	43.0	43.3	8.5	8.7	9.0	45.4	46.4	46.0	35.5	36.5	35.3	36
2.4	2.5	2.5	12.6	12.8	12.5	-	-	-	12.6	13.7	13.0	-	-	-	37
.6	.6	.6	2.3	2.4	2.4	-	-	-	2.7	2.7	2.8	-	-	-	38
118.4	116.6	117.0	458.1	457.8	461.3	106.2	108.2	109.9	434.1	439.5	444.2	508.4	506.8	510.5	39
1.1	1.1	1.1	6.3	6.5	6.5	.9	1.0	1.0	3.4	3.6	3.5	4.9	5.3	5.1	40
2.8	2.7	2.8	11.8	11.9	12.0	3.4	3.4	3.5	12.2	12.1	12.0	10.2	9.7	9.6	41
5.2	5.0	5.1	31.2	32.9	33.0	4.8	4.4	4.8	30.9	31.9	32.8	39.1	38.0	39.0	42
19.9	20.5	20.8	71.4	71.7	74.3	14.9	15.1	15.4	62.8	63.6	64.2	79.9	81.3	81.1	43
33.7	33.6	34.2	109.1	112.7	113.5	29.4	30.3	30.8	135.2	138.2	138.7	123.7	125.6	126.1	44
1.3	1.1	1.1	8.4	8.4	8.3	1.2	1.2	1.2	7.0	7.5	7.6	15.1	15.0	15.2	45
19.7	19.2	19.2	76.4	76.8	77.5	27.2	27.1	27.5	60.7	61.4	61.9	69.4	69.8	70.0	46
9.7	9.4	9.4	25.1	25.1	25.7	6.0	6.0	6.1	21.9	22.3	22.4	15.4	15.3	15.6	47
90.5	88.9	90.6	388.0	390.0	396.1	91.2	91.3	92.5	318.1	326.4	328.8	332.6	327.8	329.1	48
42.3	38.7	39.2	128.2	126.9	127.1	22.2	22.0	22.1	104.8	102.4	101.8	125.4	126.3	126.1	49
9.2	8.6	8.6	25.9	25.0	25.1	5.0	4.8	4.9	21.5	21.3	21.4	20.3	20.4	20.3	50
8.7	7.8	7.8	23.8	23.3	23.2	3.7	3.6	3.6	15.7	15.5	15.6	17.7	18.8	17.8	51
2.3	2.2	2.2	13.4	12.5	12.6	2.1	2.0	2.1	10.3	10.2	10.2	9.3	9.0	9.0	52
3.7	3.5	3.5	14.8	14.5	14.6	2.9	2.9	2.9	14.6	14.5	14.3	9.5	9.2	9.4	53
88.1	85.2	84.5	435.0	429.3	433.8	98.3	97.8	99.2	387.8	388.0	391.5	322.1	327.4	329.9	54
4.3	4.3	4.2	25.4	25.1	25.2	5.8	5.8	5.9	22.2	22.3	22.7	16.3	16.6	16.4	55
2.7	2.6	2.6	12.6	13.3	13.0	1.7	1.7	1.7	10.0	9.8	10.0	10.3	11.1	10.0	56
6.2	6.2	6.3	19.6	20.0	20.3	2.6	2.6	2.6	15.3	16.0	15.9	10.5	9.9	10.2	57
2.5	2.7	2.7	11.0	10.9	10.9	1.4	1.4	1.4	9.1	9.2	9.3	7.1	7.2	6.8	58
1.3	1.2	1.2	8.2	7.6	7.7	1.0	1.0	1.0	7.5	7.4	7.3	6.2	6.0	5.8	59
1.9	1.8	1.8	11.8	12.2	12.3	1.1	1.2	1.2	11.7	12.6	12.5	6.9	8.1	7.1	60
6.3	6.3	6.2	36.6	37.2	36.9	14.0	13.6	13.8	33.4	34.6	34.5	53.0	55.3	54.6	61
33.1	31.6	31.4	139.8	137.4	138.3	41.4	40.7	41.1	148.9	148.8	150.2	86.9	82.1	83.2	62
2.3	2.4	2.4	13.0	12.5	12.7	2.3	2.2	2.3	11.1	11.1	11.1	8.8	8.3	8.5	63

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-6. Employees on nonagricultural payrolls for States and selected areas by Industry division—Continued

(In thousands)

State and areas	Total			Mining			Construction			Manufacturing		
	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P
1 WYOMING	227.0	213.7	218.6	37.4	35.1	36.1	20.5	22.9	25.1	9.1	8.9	9.2
2 PUERTO RICO	639.6	626.4	622.4	.7	.7	.7	25.3	19.0	18.7	143.0	143.2	141.9
3 Caguas	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
4 Mayaguez	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
5 Ponce	(*)	(*)	(*)	(*)	(*)	(*)	2.0	2.9	3.4	(*)	(*)	(*)
6 San Juan	(*)	(*)	(*)	(1)	(1)	(1)	18.4	12.6	11.9	(*)	(*)	(*)
7 VIRGIN ISLANDS	35.5	35.8	35.7	(2)	(2)	(2)	3.1	2.7	2.8	2.7	2.3	2.3

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			
JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	
18.2	16.1	16.1	51.5	45.2	46.1	7.7	7.6	7.5	37.5	30.3	32.2	45.1	47.6	46.3	1
13.1	13.3	14.0	105.9	102.7	101.8	29.0	29.1	29.4	82.4	82.7	79.8	240.2	235.7	236.3	2
(*)	(*)	(*)	5.0	5.1	5.0	(*)	(*)	(*)	(*)	(*)	(*)	9.1	9.1	9.4	3
(*)	(*)	(*)	4.9	4.8	4.8	(*)	(*)	(*)	(*)	(*)	(*)	12.4	12.8	13.5	4
(*)	(*)	(*)	7.1	7.0	7.0	(*)	(*)	(*)	7.3	6.9	6.9	16.2	16.3	16.3	5
10.2	10.3	10.9	67.0	65.1	64.1	22.3	22.6	22.9	56.1	56.7	54.5	125.1	122.2	122.3	6
2.1	2.2	2.2	7.1	7.0	7.0	1.5	1.5	1.5	5.8	6.1	5.9	13.3	14.0	14.0	7

¹ Combined with services.

² Combined with construction.

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

⁴ Subarea of 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, and 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.

NOTE: All State and area data have been adjusted to March 1982 benchmarks except Alaska and Wisconsin.

SOURCE: Cooperating State agencies listed on inside back cover.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	TOTAL PRIVATE	\$267.40	\$270.34	\$278.15	\$281.34	\$282.85	\$7.64	\$7.68	\$7.97	\$7.97	\$7.99
	MINING	461.38	461.55	472.64	479.40	474.55	10.78	10.86	11.20	11.28	11.38
10	METAL MINING	491.20	462.29	494.47	502.28	-	12.28	12.23	12.55	12.62	-
101	Iron ores	547.37	484.52	465.28	481.65	-	12.70	12.52	12.18	12.35	-
102	Copper ores	463.23	468.10	520.10	521.20	-	12.32	12.86	12.97	13.03	-
11, 12	COAL MINING	510.80	502.85	533.17	541.33	-	12.77	-	13.43	13.67	-
12	BITUMINOUS COAL AND LIGNITE MINING	512.40	503.10	534.76	544.29	-	12.81	-	13.47	13.71	-
13	OIL AND GAS EXTRACTION	452.47	458.35	462.88	466.32	-	10.26	10.37	10.69	10.72	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	480.46	489.04	517.86	517.37	-	11.69	11.87	12.33	12.26	-
138	Oil and gas field services	443.41	447.11	438.24	443.21	-	9.81	9.87	9.96	10.05	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	383.67	392.04	393.16	407.56	-	8.82	8.91	9.08	9.20	-
142	Crushed and broken stone	378.79	389.28	381.47	392.90	-	8.57	8.67	8.65	8.77	-
-	CONSTRUCTION	430.13	440.42	441.32	445.33	450.38	11.47	11.59	11.80	11.75	11.79
15	GENERAL BUILDING CONTRACTORS	381.62	392.02	388.24	388.74	-	10.37	10.51	10.55	10.45	-
152	Residential building construction	350.85	358.24	352.84	354.02	-	9.56	9.63	9.72	9.62	-
153	Operative builders	308.07	313.29	323.87	362.30	-	8.15	8.18	8.22	8.88	-
154	Nonresidential building construction	412.54	424.85	425.46	424.45	-	11.18	11.39	11.53	11.41	-
16	HEAVY CONSTRUCTION CONTRACTORS	465.35	483.21	477.46	491.36	-	11.35	11.56	11.76	11.84	-
161	Highway and street construction	423.53	441.27	419.57	452.36	-	10.06	10.31	10.11	10.52	-
162	Heavy construction, except highway	482.76	501.77	501.70	509.18	-	11.92	12.12	12.48	12.48	-
17	SPECIAL TRADE CONTRACTORS	436.69	444.80	452.24	453.01	-	12.03	12.12	12.39	12.31	-
171	Plumbing, heating, air conditioning	449.55	467.37	468.86	477.01	-	12.15	12.43	12.57	12.52	-
172	Painting, paper hanging, decorating	386.98	388.30	395.93	399.02	-	11.12	11.00	11.28	11.24	-
173	Electrical work	522.45	523.22	531.36	525.38	-	13.57	13.59	13.91	14.01	-
174	Masonry, stonework, and plastering	408.33	416.71	430.68	428.75	-	11.87	11.94	12.27	12.25	-
175	Carpentering and flooring	375.86	378.59	416.89	416.98	-	11.12	11.07	11.81	11.68	-
176	Roofing and sheet metal work	350.78	365.01	366.16	379.78	-	10.44	10.58	10.93	10.82	-
-	MANUFACTURING	334.05	332.60	350.32	355.92	355.29	8.50	8.55	8.78	8.81	8.86
24, 25, 32-39	DURABLE GOODS	360.99	357.50	377.34	382.30	379.76	9.07	9.12	9.34	9.37	9.40
20-23, 26-31	NONDURABLE GOODS	297.99	299.15	315.58	318.79	321.95	7.70	7.77	8.03	8.03	8.13
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	295.57	292.97	312.76	319.87	315.99	7.54	7.59	7.78	7.84	7.88
241	Logging camps and logging contractors	406.50	396.68	401.58	415.31	-	10.37	10.25	10.09	10.28	-
242	Sawmills and planing mills	309.23	302.23	330.48	340.31	-	7.75	7.85	8.14	8.22	-
2421	Sawmills and planing mills, general	327.22	319.66	350.47	360.67	-	8.16	8.26	8.59	8.67	-
2426	Hardwood dimension and flooring	206.17	203.07	220.49	225.22	-	5.30	5.33	5.54	5.52	-
243	Millwork, plywood, and structural members	287.39	289.03	309.10	315.65	-	7.35	7.43	7.67	7.68	-
2431	Millwork	301.10	306.36	311.58	320.95	-	7.49	7.64	7.77	7.79	-
2434	Wood kitchen cabinets	251.17	252.30	274.72	275.02	-	6.68	6.71	6.92	6.91	-
2435	Hardwood veneer and plywood	220.80	218.42	242.35	251.12	-	5.75	5.84	6.12	6.11	-
2436	Softwood veneer and plywood	356.18	348.29	393.73	404.46	-	9.04	9.07	9.33	9.45	-
244	Wood containers	213.50	208.35	218.48	219.91	-	5.56	5.44	5.66	5.61	-
245	Wood buildings and mobile homes	249.16	250.33	274.13	271.44	-	6.68	6.64	6.94	6.82	-
2451	Mobile homes	249.48	248.35	281.00	276.86	-	6.60	6.57	6.99	6.87	-
249	Miscellaneous wood products	246.57	244.92	266.38	266.64	-	6.29	6.28	6.61	6.60	-
25	FURNITURE AND FIXTURES	237.76	232.31	254.28	263.34	259.62	6.29	6.33	6.52	6.60	6.64
251	Household furniture	215.18	207.42	234.57	240.58	-	5.89	5.81	6.03	6.06	-
2511	Wood household furniture	194.71	189.57	214.56	220.18	-	5.32	5.34	5.53	5.56	-
2512	Upholstered household furniture	228.02	211.70	246.53	257.00	-	6.23	6.19	6.42	6.49	-
2514	Metal household furniture	238.23	243.59	251.83	255.02	-	6.14	6.23	6.28	6.22	-
2515	Mattresses and bedsprings	242.79	243.54	269.01	273.83	-	6.44	6.46	6.88	6.95	-
252	Office furniture	261.97	251.63	274.01	290.80	-	6.70	6.71	6.99	7.27	-
253	Public building and related furniture	285.82	280.28	285.37	294.19	-	7.11	7.06	7.17	7.30	-
254	Partitions and fixtures	298.36	298.76	314.20	324.35	-	7.67	7.70	8.14	8.17	-
259	Miscellaneous furniture and fixtures	272.55	273.31	290.39	302.85	-	6.90	6.99	7.10	7.28	-

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				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	TOTAL PRIVATE	35.0	35.2	34.9	35.3	35.4	-	-	-	-	-
-	MINING	42.8	42.5	42.2	42.5	41.7	-	-	-	-	-
10	METAL MINING	40.0	37.8	39.4	39.8	-	-	-	-	-	-
101	Iron ores	43.1	38.7	38.2	39.0	-	-	-	-	-	-
102	Copper ores	37.6	36.4	40.1	40.0	-	-	-	-	-	-
11, 12	COAL MINING	40.0	-	39.7	39.6	-	-	-	-	-	-
12	BITUMINOUS COAL AND LIGNITE MINING	40.0	-	39.7	39.7	-	-	-	-	-	-
13	OIL AND GAS EXTRACTION	44.1	44.2	43.3	43.5	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	41.1	41.2	42.0	42.2	-	-	-	-	-	-
138	Oil and gas field services	45.2	45.3	44.0	44.1	-	-	-	-	-	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	43.5	44.0	43.3	44.3	-	-	-	-	-	-
142	Crushed and broken stone	44.2	44.9	44.1	44.8	-	-	-	-	-	-
-	CONSTRUCTION	37.5	38.0	37.4	37.9	38.2	-	-	-	-	-
15	GENERAL BUILDING CONTRACTORS	36.8	37.3	36.8	37.2	-	-	-	-	-	-
152	Residential building construction	36.7	37.2	36.3	36.8	-	-	-	-	-	-
153	Operative builders	37.8	38.3	39.4	40.8	-	-	-	-	-	-
154	Nonresidential building construction	36.9	37.3	36.9	37.2	-	-	-	-	-	-
16	HEAVY CONSTRUCTION CONTRACTORS	41.0	41.8	40.6	41.5	-	-	-	-	-	-
161	Highway and street construction	42.1	42.8	41.5	43.0	-	-	-	-	-	-
162	Heavy construction, except highway	40.5	41.8	40.2	40.8	-	-	-	-	-	-
17	SPECIAL TRADE CONTRACTORS	36.3	36.7	36.5	36.8	-	-	-	-	-	-
171	Plumbing, heating, air conditioning	37.0	37.6	37.3	38.1	-	-	-	-	-	-
172	Painting, paper hanging, decorating	34.8	35.3	35.1	35.5	-	-	-	-	-	-
173	Electrical work	38.5	38.5	38.2	37.5	-	-	-	-	-	-
174	Masonry, stonework, and plastering	34.4	34.9	35.1	35.0	-	-	-	-	-	-
175	Carpentering and flooring	33.8	34.2	35.3	35.7	-	-	-	-	-	-
176	Roofing and sheet metal work	33.6	34.5	33.5	35.1	-	-	-	-	-	-
-	MANUFACTURING	39.3	38.9	39.9	40.4	40.1	2.4	2.3	2.7	3.0	3.0
24, 25, 32-39	DURABLE GOODS	39.8	39.2	40.4	40.8	40.4	2.3	2.1	2.6	3.0	2.9
20-23, 26-31	NONDURABLE GOODS	38.7	38.5	39.3	39.7	39.6	2.5	2.5	2.8	3.0	3.1
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	39.2	38.6	40.2	40.8	40.1	2.6	2.5	3.0	3.4	-
241	Logging camps and logging contractors	39.2	38.7	39.8	40.4	-	3.2	2.9	3.4	3.7	-
242	Sawmills and planing mills	39.9	38.5	40.6	41.4	-	3.1	3.1	3.4	3.9	-
2421	Sawmills and planing mills, general	40.1	38.7	40.8	41.6	-	3.3	3.3	3.5	4.0	-
2426	Hardwood dimension and flooring	38.9	38.1	39.8	40.8	-	2.1	2.0	2.8	3.3	-
243	Millwork, plywood, and structural members	39.1	38.9	40.3	41.1	-	2.3	2.3	2.9	3.4	-
2431	Millwork	40.2	40.1	40.1	41.2	-	2.1	2.1	2.2	2.9	-
2434	Wood kitchen cabinets	37.6	37.6	39.7	39.8	-	2.1	1.5	2.7	2.7	-
2435	Hardwood veneer and plywood	38.4	37.4	39.6	41.1	-	2.2	1.9	3.1	3.6	-
2436	Softwood veneer and plywood	39.4	38.4	42.2	42.8	-	3.0	3.2	4.1	4.5	-
244	Wood containers	38.4	38.3	38.6	39.2	-	1.9	1.9	2.0	2.3	-
245	Wood buildings and mobile homes	37.3	37.7	39.5	39.8	-	1.6	1.7	3.0	3.4	-
2451	Mobile homes	37.8	37.8	40.2	40.3	-	1.7	1.8	3.2	3.7	-
249	Miscellaneous wood products	39.2	39.0	40.3	40.4	-	2.1	2.2	2.6	2.6	-
25	FURNITURE AND FIXTURES	37.8	36.7	39.0	39.9	39.1	1.5	1.4	2.0	2.4	-
251	Household furniture	37.1	35.7	38.9	39.7	-	1.2	.9	1.8	2.2	-
2511	Wood household furniture	36.6	35.5	38.8	39.6	-	1.3	1.0	1.9	2.2	-
2512	Upholstered household furniture	36.6	34.2	38.4	39.6	-	.8	.5	1.3	1.7	-
2514	Metal household furniture	38.8	39.1	40.1	41.0	-	1.9	1.5	2.6	2.6	-
2515	Mattresses and bedspings	37.7	37.7	39.1	39.4	-	1.5	1.4	2.2	2.4	-
252	Office furniture	39.1	37.5	39.2	40.0	-	2.0	1.7	2.2	2.5	-
253	Public building and related furniture	40.2	39.7	39.8	40.3	-	2.4	2.5	2.7	3.0	-
254	Partitions and fixtures	38.9	38.8	38.6	39.7	-	2.2	2.4	2.2	2.8	-
259	Miscellaneous furniture and fixtures	39.5	39.1	40.9	41.6	-	1.9	1.7	2.3	2.6	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
32	STONE, CLAY, AND GLASS PRODUCTS	\$361.08	\$352.56	\$380.88	\$390.27	\$393.12	\$8.85	\$8.93	\$9.20	\$9.27	\$9.36
321	Flat glass	529.69	495.23	506.40	548.58	-	11.93	11.68	12.00	12.30	-
322	Glass and glassware, pressed or blown	384.20	383.51	403.56	409.00	-	9.51	9.54	9.94	10.00	-
3221	Glass containers	406.96	408.18	424.54	427.41	-	9.95	9.98	10.38	10.45	-
3228	Pressed and blown glass, nec	350.95	348.98	376.40	384.58	-	8.84	8.88	9.34	9.38	-
323	Products of purchased glass	319.97	317.98	324.81	315.21	-	7.92	8.05	6.10	7.90	-
324	Cement, hydraulic	513.76	508.68	549.61	551.09	-	12.47	12.56	13.18	13.09	-
325	Structural clay products	283.86	281.71	308.35	305.44	-	7.15	7.15	7.43	7.36	-
326	Pottery and related products	287.08	285.35	304.59	306.48	-	7.38	7.47	7.81	7.94	-
327	Concrete, gypsum, and plaster products	362.88	371.85	379.95	400.43	-	8.64	8.77	8.94	9.08	-
3271	Concrete block and brick	334.71	333.07	351.53	360.22	-	7.73	7.71	7.76	7.73	-
3272	Concrete products, nec	327.33	330.54	330.91	340.65	-	7.72	7.87	7.86	7.96	-
3273	Ready-mixed concrete	390.99	406.08	410.75	440.00	-	9.49	9.60	9.85	10.00	-
329	Misc. nonmetallic mineral products	343.08	341.43	373.68	378.90	-	8.62	8.71	9.07	9.13	-
3291	Abrasive products	324.14	321.78	360.77	358.16	-	8.53	8.65	8.93	8.80	-
3292	Asbestos products	344.04	356.71	382.20	394.51	-	8.89	8.94	8.93	9.09	-
33	PRIMARY METAL INDUSTRIES	439.57	437.36	452.33	456.03	462.11	11.30	11.36	11.28	11.26	11.41
331	Blast furnace and basic steel products	506.33	505.21	456.75	501.86	-	13.22	13.26	12.77	12.77	-
3312	Blast furnaces and steel mills	524.40	523.91	509.74	516.75	-	13.80	13.86	13.24	13.25	-
3317	Steel pipe and tubes	420.00	411.33	424.85	421.70	-	10.66	10.52	10.49	10.49	-
332	Iron and steel foundries	361.34	363.82	391.25	399.59	-	9.61	9.78	9.88	9.94	-
3321	Gray iron foundries	364.72	378.13	403.79	408.64	-	9.70	10.03	10.12	10.14	-
3322	Malleable iron foundries	381.02	374.26	412.65	426.62	-	10.27	10.17	10.50	10.56	-
3325	Steel foundries, nec	350.25	330.37	359.81	381.52	-	9.39	9.28	9.37	9.61	-
333	Primary nonferrous metals	524.48	521.48	555.70	553.32	-	12.95	12.94	13.62	13.43	-
3334	Primary aluminum	555.66	553.23	587.30	571.61	-	13.72	13.66	14.43	14.01	-
335	Nonferrous rolling and drawing	414.12	409.20	453.42	451.98	-	10.20	10.23	10.77	10.66	-
3351	Copper rolling and drawing	356.21	366.54	353.21	401.97	-	8.95	8.94	9.34	9.37	-
3353	Aluminum sheet, plate, and foil	555.67	547.29	615.14	583.38	-	13.52	13.48	14.44	13.99	-
3357	Nonferrous wire drawing and insulating	378.92	368.54	409.45	418.00	-	9.31	9.33	9.89	10.00	-
336	Nonferrous foundries	337.39	335.87	360.67	361.62	-	8.52	8.59	8.84	8.82	-
3361	Aluminum foundries	349.67	347.90	373.68	372.94	-	8.72	8.83	9.07	9.03	-
34	FABRICATED METAL PRODUCTS	349.27	344.27	366.83	370.78	366.73	8.82	8.85	9.08	9.11	9.10
341	Metal cans and shipping containers	515.79	503.96	517.52	528.09	-	11.83	11.83	12.12	12.14	-
3411	Metal cans	541.20	528.04	543.13	556.26	-	12.30	12.28	12.69	12.70	-
342	Cutlery, hand tools, and hardware	327.79	322.33	354.48	358.27	-	8.47	8.46	8.84	8.89	-
3423, 5	Hand and edge tools, and hand saws and blades	293.25	290.90	321.08	326.76	-	7.82	7.82	8.17	8.21	-
3429	Hardware, nec	350.84	344.31	370.76	374.63	-	8.95	8.92	9.20	9.25	-
343	Plumbing and heating, except electric	302.24	303.69	317.20	325.62	-	7.83	7.95	8.01	8.08	-
3432	Plumbing fittings and brass goods	285.64	289.55	303.31	307.60	-	7.40	7.56	7.64	7.69	-
3433	Heating equipment, except electric	308.44	306.36	312.76	323.97	-	7.97	8.02	8.04	8.14	-
344	Fabricated structural metal products	338.58	335.40	344.92	351.35	-	8.55	8.60	8.71	8.74	-
3441	Fabricated structural metal	356.98	360.30	360.08	377.40	-	8.88	9.03	9.07	9.25	-
3442	Metal doors, sash, and trim	264.88	256.90	271.15	274.85	-	6.74	6.69	6.83	6.82	-
3443	Fabricated plate work (boiler shops)	381.20	372.27	389.66	399.19	-	9.53	9.57	9.84	9.93	-
3444	Sheet metal work	340.28	345.54	351.34	356.61	-	8.77	8.86	8.94	8.96	-
3446	Architectural metal work	314.73	322.62	357.06	358.43	-	8.07	8.23	8.86	8.85	-
345	Screw machine products, bolts, etc.	319.06	312.19	340.94	343.92	-	8.16	8.13	8.46	8.45	-
3451	Screw machine products	290.66	285.38	308.09	312.40	-	7.53	7.51	7.78	7.81	-
3452	Bolts, nuts, rivets, and washers	346.90	339.21	373.10	374.59	-	8.76	8.72	9.10	9.07	-
346	Metal forgings and stampings	407.03	392.27	440.16	442.47	-	10.10	10.11	10.48	10.51	-
3462	Iron and steel forgings	426.02	405.45	461.44	469.34	-	10.98	10.87	11.45	11.56	-
3465	Automotive stampings	500.65	476.24	547.13	542.17	-	11.78	11.73	12.24	12.35	-
3469	Metal stampings, nec	303.80	300.80	327.60	330.47	-	7.85	8.00	8.19	8.18	-
347	Metal services, nec	269.66	273.08	285.68	289.20	-	6.95	7.02	7.16	7.23	-
3471	Plating and polishing	265.30	269.58	278.30	282.49	-	6.82	6.93	7.01	7.08	-
3479	Metal coating and allied services	280.28	281.97	306.53	305.96	-	7.28	7.23	7.55	7.63	-
348	Ordnance and accessories, nec	358.90	356.18	377.34	382.73	-	8.95	9.04	9.34	9.45	-
3483	Ammunition, exc. for small arms, nec	334.36	326.88	360.67	361.49	-	8.38	8.36	8.84	8.97	-
349	Misc. fabricated metal products	320.82	316.23	336.20	339.60	-	8.29	8.30	8.49	8.49	-
3494	Valves and pipe fittings	337.42	334.15	346.75	350.87	-	8.81	8.84	9.03	9.09	-
3496	Misc. fabricated wire products	277.22	278.46	296.91	309.48	-	7.09	7.14	7.46	7.53	-
35	MACHINERY, EXCEPT ELECTRICAL	367.88	365.34	382.64	388.49	386.97	9.29	9.32	9.59	9.64	9.65
351	Engines and turbines	438.40	447.27	465.31	464.51	-	11.27	11.41	11.81	11.88	-
3511	Turbines and turbine generator sets	419.69	422.28	434.60	426.38	-	10.44	10.80	11.23	11.34	-
3519	Internal combustion engines, nec	447.73	459.81	481.18	482.38	-	11.69	11.70	12.09	12.12	-
352	Farm and garden machinery	416.85	413.95	408.40	421.70	-	10.58	10.56	10.21	10.49	-
3523	Farm machinery and equipment	432.61	426.80	428.67	442.30	-	10.98	10.86	10.69	11.03	-
353	Construction and related machinery	387.00	379.50	407.03	420.89	-	10.00	10.12	10.41	10.47	-

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				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
32	STONE, CLAY, AND GLASS PRODUCTS	40.8	40.6	41.4	42.1	42.0	3.7	3.8	3.9	4.4	-
321	Flat glass	44.4	42.4	42.2	44.6	-	4.7	3.7	4.1	5.3	-
322	Glass and glassware, pressed or blown	40.4	40.2	40.6	40.9	-	3.9	4.1	3.8	4.0	-
3221	Glass containers	40.9	40.9	40.9	40.9	-	4.5	4.8	4.6	4.7	-
3229	Pressed and blown glass, nec	39.7	39.3	40.3	41.0	-	3.0	3.1	2.8	3.0	-
323	Products of purchased glass	40.4	39.5	40.1	39.9	-	2.8	2.7	2.5	2.5	-
324	Cement, hydraulic	41.2	40.5	41.7	42.1	-	2.4	2.4	3.0	2.9	-
325	Structural clay products	39.7	39.4	41.5	41.5	-	2.4	2.5	3.4	3.6	-
326	Pottery and related products	38.9	38.2	39.0	38.6	-	1.6	1.4	1.6	1.5	-
327	Concrete, gypsum, and plaster products	42.0	42.4	42.5	44.1	-	5.3	5.5	5.6	6.4	-
3271	Concrete block and brick	43.3	43.2	45.3	46.6	-	5.3	5.3	7.1	8.0	-
3272	Concrete products, nec	42.4	42.0	42.1	42.8	-	4.8	4.8	4.3	4.5	-
3273	Ready-mixed concrete	41.2	42.3	41.7	44.0	-	5.7	6.1	5.9	7.1	-
329	Misc. nonmetallic mineral products	39.8	39.2	41.2	41.5	-	2.5	2.4	2.9	3.3	-
3291	Abrasive products	38.0	37.2	40.4	40.7	-	1.2	1.2	2.4	2.5	-
3292	Asbestos products	38.7	39.9	42.8	43.4	-	2.0	2.6	2.7	3.7	-
33	PRIMARY METAL INDUSTRIES	38.9	38.5	40.1	40.5	40.5	2.0	2.0	2.7	2.9	-
331	Blast furnace and basic steel products	38.3	38.1	38.9	39.3	-	1.4	1.5	2.0	2.3	-
3312	Blast furnaces and steel mills	38.0	37.8	38.5	39.0	-	1.3	1.4	1.9	2.2	-
3317	Steel pipe and tubes	39.4	39.1	40.5	40.2	-	1.6	2.4	2.8	2.6	-
332	Iron and steel foundries	37.6	37.2	39.6	40.2	-	2.0	2.0	2.3	2.6	-
3321	Gray iron foundries	37.6	37.7	39.9	40.3	-	2.4	2.6	2.7	2.9	-
3322	Malleable iron foundries	37.1	36.8	39.3	40.4	-	2.0	1.3	1.8	2.4	-
3325	Steel foundries, nec	37.3	35.6	38.4	39.7	-	1.3	.9	1.4	1.9	-
333	Primary nonferrous metals	40.5	40.3	40.8	41.2	-	2.9	2.7	2.7	3.0	-
3334	Primary aluminum	40.5	40.5	40.7	40.8	-	3.6	3.2	3.1	2.9	-
335	Nonferrous rolling and drawing	40.6	40.0	42.1	42.4	-	3.2	2.9	4.1	4.3	-
3351	Copper rolling and drawing	39.8	41.0	42.1	42.9	-	2.7	2.7	3.6	3.7	-
3353	Aluminum sheet, plate and foil	41.1	40.6	42.6	41.7	-	4.5	4.6	5.9	5.8	-
3357	Nonferrous wire drawing and insulating	40.7	39.5	41.4	41.8	-	3.3	2.5	3.4	3.7	-
336	Nonferrous foundries	39.6	39.1	40.8	41.0	-	2.0	2.0	3.2	3.3	-
3361	Aluminum foundries	40.1	39.4	41.2	41.3	-	2.0	2.0	3.4	3.4	-
34	FABRICATED METAL PRODUCTS	39.6	38.9	40.4	40.7	40.3	2.2	1.9	2.6	2.9	-
341	Metal cans and shipping containers	43.6	42.6	42.7	43.5	-	4.6	4.4	4.6	4.9	-
3411	Metal cans	44.0	43.0	42.8	43.8	-	4.6	4.5	4.6	5.0	-
342	Cutlery, hand tools, and hardware	38.7	38.1	40.1	40.3	-	1.4	1.4	2.3	2.6	-
3423, 5	Hand and edge tools, and hand saws and blades	37.5	37.2	39.3	39.8	-	.8	.9	1.5	1.7	-
3429	Hardware, nec	39.2	38.6	40.3	40.5	-	1.7	1.6	2.8	3.1	-
343	Plumbing and heating, except electric	38.6	38.2	39.6	40.3	-	1.1	.8	1.7	2.2	-
3432	Plumbing fittings and brass goods	38.6	38.3	39.7	40.0	-	1.1	.9	1.9	2.2	-
3433	Heating equipment, except electric	38.7	38.2	38.9	39.8	-	1.1	.8	.9	1.5	-
344	Fabricated structural metal products	39.6	39.0	39.6	40.2	-	2.2	2.0	2.2	2.6	-
3441	Fabricated structural metal	40.2	39.9	39.7	40.8	-	2.6	2.7	2.3	2.9	-
3442	Metal doors, sash, and trim	39.3	38.4	39.7	40.3	-	2.3	1.7	2.1	3.0	-
3443	Fabricated plate work (boiler shops)	40.0	38.9	39.6	40.2	-	2.2	1.8	1.9	2.3	-
3444	Sheet metal work	38.8	39.0	39.3	39.8	-	1.9	1.9	2.3	2.5	-
3446	Architectural metal work	39.0	39.2	40.3	40.5	-	1.6	2.1	2.3	2.8	-
345	Screw machine products, bolts, etc.	39.1	38.4	40.3	40.7	-	1.9	1.5	2.6	2.8	-
3451	Screw machine products	38.6	38.0	39.6	40.0	-	1.7	1.2	2.1	2.3	-
3452	Bolts, nuts, rivets, and washers	39.6	38.9	41.0	41.3	-	2.0	1.7	3.2	3.3	-
346	Metal forgings and stampings	40.3	38.8	42.0	42.1	-	2.9	2.3	3.8	4.0	-
3462	Iron and steel forgings	38.8	37.3	40.3	40.6	-	2.3	1.7	2.6	3.2	-
3465	Automotive stampings	42.5	40.6	44.7	43.9	-	4.3	3.2	5.7	5.5	-
3469	Metal stampings, nec	38.7	37.6	40.0	40.4	-	1.9	1.7	2.5	2.8	-
347	Metal services, nec	38.8	38.9	39.9	40.0	-	2.3	2.3	2.9	3.1	-
3471	Plating and polishing	38.9	38.9	39.7	39.9	-	2.2	2.1	2.7	3.0	-
3479	Metal coating and allied services	38.5	39.0	40.6	40.1	-	2.4	2.7	3.4	3.4	-
348	Ordnance and accessories, nec	40.1	39.4	40.4	40.5	-	2.2	1.9	1.8	1.9	-
3483	Ammunition, exc. for small arms, nec	39.9	39.1	40.8	40.3	-	1.8	1.4	1.2	1.2	-
349	Misc. fabricated metal products	38.7	38.1	39.6	40.0	-	1.6	1.3	1.9	2.2	-
3494	Valves and pipe fittings	38.3	37.8	38.4	38.6	-	1.4	1.1	1.4	1.7	-
3496	Misc. fabricated wire products	39.1	39.0	39.8	41.1	-	1.5	1.4	2.1	2.4	-
35	MACHINERY, EXCEPT ELECTRICAL	39.6	39.2	39.9	40.3	40.1	2.2	2.0	2.2	2.5	-
351	Engines and turbines	38.9	39.2	39.4	39.1	-	1.5	1.4	2.0	2.0	-
3511	Turbines and turbine generator sets	40.2	39.1	38.7	37.6	-	2.7	2.7	2.4	2.3	-
3519	Internal combustion engines, nec	38.3	39.3	39.8	39.8	-	.9	.8	1.8	1.8	-
352	Farm and garden machinery	39.4	39.2	40.0	40.2	-	2.2	1.7	2.0	2.3	-
3523	Farm machinery and equipment	39.4	39.3	40.1	40.1	-	2.3	1.8	2.1	2.5	-
353	Construction and related machinery	38.7	37.5	39.1	40.2	-	1.7	1.5	1.7	2.1	-

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				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	\$391.96	\$393.40	\$445.22	\$469.86	-	\$11.01	\$11.24	\$11.30	\$11.46	-
3532	Mining machinery	397.06	382.95	418.50	427.51	-	10.34	10.35	10.87	10.99	-
3533	Oil field machinery	405.66	397.60	412.78	421.74	-	9.87	9.99	10.53	10.57	-
3535	Conveyers and conveying equipment	338.37	343.26	343.27	348.48	-	8.61	8.69	8.87	8.80	-
3537	Industrial trucks and tractors	331.36	303.10	348.68	362.60	-	8.86	8.66	9.20	9.25	-
354	Metalworking machinery	381.28	378.24	387.25	394.54	-	9.58	9.60	9.73	9.79	-
3541	Machine tools, metal cutting types	379.26	382.57	378.62	383.46	-	9.80	9.86	9.99	9.96	-
3542	Machine tools, metal forming types	379.38	374.58	383.61	378.72	-	10.01	10.08	10.34	10.52	-
3544	Special dies, tools, jigs, and fixtures	419.15	411.07	423.74	429.52	-	10.10	10.10	10.31	10.40	-
3545	Machine tool accessories	325.75	329.75	347.70	354.82	-	8.71	8.77	8.87	8.96	-
3546	Power driven hand tools	299.52	297.92	299.53	311.85	-	7.68	7.60	7.70	7.70	-
355	Special industry machinery	357.20	351.51	374.39	378.39	-	8.93	8.99	9.29	9.32	-
3551	Food products machinery	368.28	369.86	394.47	391.88	-	9.23	9.34	9.74	9.70	-
3552	Textile machinery	274.63	273.08	289.28	298.25	-	7.06	7.13	7.25	7.31	-
3555	Printing trades machinery	377.87	365.63	356.26	391.72	-	9.33	9.28	9.76	9.72	-
356	General industrial machinery	357.35	355.74	375.17	381.90	-	9.21	9.24	9.45	9.50	-
3561	Pumps and pumping equipment	366.31	356.45	385.92	397.58	-	9.49	9.48	9.77	9.89	-
3562	Ball and roller bearings	351.51	386.63	387.81	397.10	-	8.99	8.98	9.39	9.41	-
3563	Air and gas compressors	395.00	391.95	400.75	393.74	-	10.00	10.05	10.12	10.07	-
3564	Blowers and fans	343.48	345.37	348.65	355.85	-	8.46	8.57	8.76	8.83	-
3566	Speed changers, drives, and gears	360.14	371.88	372.56	381.15	-	9.84	9.97	9.83	9.90	-
3568	Power transmission equipment, nec	323.69	329.49	368.55	359.84	-	8.82	8.81	9.45	9.42	-
357	Office and computing machines	325.03	323.54	346.39	348.91	-	7.87	7.93	8.49	8.51	-
3573	Electronic computing equipment	323.65	320.62	346.04	350.20	-	7.78	7.82	8.44	8.50	-
358	Refrigeration and service machinery	347.06	348.40	366.92	373.52	-	8.72	8.71	9.15	9.20	-
3585	Refrigeration and heating equipment	362.10	361.49	365.97	390.04	-	9.03	8.97	9.46	9.49	-
359	Misc. machinery, except electrical	352.24	351.12	374.22	377.60	-	8.94	8.98	9.45	9.44	-
3592	Carburetors, pistons, rings, valves	419.18	402.74	440.02	448.78	-	10.35	10.38	10.68	10.84	-
3599	Machinery, except electrical, nec	341.82	343.78	363.27	364.84	-	8.72	8.77	9.22	9.19	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	321.53	321.79	345.77	350.78	\$348.13	8.14	8.23	8.60	8.64	\$8.66
361	Electric distributing equipment	307.67	305.98	326.63	331.01	-	7.95	8.01	8.29	8.38	-
3612	Transformers	307.72	303.41	326.78	329.97	-	7.87	7.84	8.19	8.27	-
3613	Switchgear and switchboard apparatus	307.97	308.45	326.43	331.63	-	8.02	8.16	8.37	8.46	-
362	Electrical industrial apparatus	320.49	320.64	344.99	350.21	-	8.26	8.35	8.69	8.69	-
3621	Motors and generators	330.37	332.69	354.03	357.57	-	8.28	8.38	8.72	8.70	-
3622	Industrial controls	299.30	298.28	327.08	332.09	-	7.96	8.04	8.43	8.45	-
363	Household appliances	308.46	305.10	327.99	336.60	-	7.95	8.05	8.41	8.50	-
3632	Household refrigerators and freezers	363.92	374.18	370.75	380.33	-	9.19	9.17	9.41	9.58	-
3633	Household laundry equipment	360.02	359.10	391.00	397.94	-	9.40	9.50	10.00	10.10	-
3634	Electric housewares and fans	237.31	228.42	256.69	261.89	-	6.18	6.31	6.65	6.63	-
364	Electric lighting and wiring equipment	299.92	300.70	327.98	330.47	-	7.71	7.77	7.98	8.08	-
3641	Electric lamps	329.09	335.01	389.79	382.20	-	8.46	8.59	9.15	9.10	-
3643	Current-carrying wiring devices	284.14	286.26	302.17	306.06	-	7.23	7.34	7.37	7.52	-
3644	Noncurrent-carrying wiring devices	285.94	302.64	332.77	329.11	-	7.77	7.80	8.34	8.29	-
3645	Residential lighting fixtures	227.90	221.68	259.38	257.81	-	6.11	6.09	6.25	6.35	-
365	Radio and TV receiving equipment	315.59	311.24	325.56	327.95	-	7.87	7.96	8.18	8.24	-
3651	Radio and TV receiving sets	327.24	319.09	339.60	342.50	-	8.10	8.14	8.49	8.52	-
366	Communication equipment	383.80	381.88	413.29	418.61	-	9.50	9.57	10.23	10.26	-
3661	Telephone and telegraph apparatus	381.68	381.00	415.74	420.86	-	9.59	9.67	10.24	10.24	-
3662	Radio and TV communication equipment	384.62	382.70	412.27	416.96	-	9.45	9.52	10.23	10.27	-
367	Electronic components and accessories	279.97	283.29	303.46	309.20	-	7.07	7.19	7.53	7.56	-
3671-3	Electronic tubes	366.06	366.38	384.46	398.11	-	8.95	8.98	9.54	9.57	-
3674	Semiconductors and related devices	317.20	321.14	344.32	359.81	-	8.01	8.13	8.46	8.67	-
3679	Electronic components, nec	264.14	265.99	284.72	283.68	-	6.62	6.70	7.03	6.97	-
369	Misc. electrical equipment and supplies	356.25	349.87	376.77	385.22	-	8.84	8.88	9.28	9.35	-
3691	Storage batteries	357.11	354.05	384.24	387.53	-	9.11	9.22	9.63	9.64	-
3694	Engine electrical equipment	385.43	365.33	411.16	431.00	-	9.66	9.44	9.86	10.07	-
37	TRANSPORTATION EQUIPMENT	466.34	456.75	482.69	493.11	485.62	11.21	11.25	11.52	11.63	11.59
371	Motor vehicles and equipment	509.75	490.23	518.73	533.28	-	11.91	11.87	11.98	12.12	-
3711	Motor vehicles and car bodies	574.56	550.15	569.40	589.63	-	13.30	13.13	13.15	13.31	-
3713	Truck and bus bodies	381.60	364.51	344.46	356.40	-	9.33	9.10	8.59	8.80	-
3714	Motor vehicle parts and accessories	482.89	462.38	501.51	510.95	-	11.23	11.25	11.45	11.56	-
3715	Truck trailers	302.13	297.56	340.49	356.75	-	7.93	8.13	8.47	8.68	-
372	Aircraft and parts	454.40	452.48	479.70	480.17	-	11.11	11.20	11.70	11.74	-
3721	Aircraft	472.32	474.30	504.23	507.50	-	11.72	11.74	12.45	12.50	-
3724	Aircraft engines and engine parts	448.11	446.88	460.96	456.86	-	11.01	11.20	11.41	11.45	-
3728	Aircraft equipment, nec	426.05	418.00	453.48	453.03	-	10.12	10.22	10.67	10.71	-
373	Ship and boat building and repairing	381.68	386.50	388.48	397.76	-	9.59	9.76	9.81	9.87	-
3731	Shipbuilding and repairing	400.80	403.75	416.33	-	-	10.02	10.17	10.54	-	-
3732	Boat building and repairing	304.20	318.85	304.40	306.00	-	7.78	7.95	7.61	7.65	-
374	Railroad equipment	424.13	422.98	439.67	460.99	-	11.25	11.34	11.54	11.76	-

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				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	35.6	35.0	39.4	41.0	-	0.9	0.9	1.6	2.1	-
3532	Mining machinery	38.4	37.0	38.5	38.9	-	1.0	.9	1.1	1.0	-
3533	Oil field machinery	41.1	39.8	39.2	39.9	-	2.4	2.2	1.9	2.3	-
3535	Conveyers and conveying equipment	39.3	39.5	38.7	39.6	-	1.9	1.9	1.7	2.0	-
3537	Industrial trucks and tractors	37.4	35.0	37.9	39.2	-	.9	.8	1.5	2.1	-
354	Metalworking machinery	39.8	39.4	39.8	40.3	-	2.7	2.4	2.7	2.9	-
3541	Machine tools, metal cutting types	38.7	38.8	37.9	38.5	-	1.9	2.0	1.3	1.2	-
3542	Machine tools, metal forming types	37.9	37.2	37.1	36.0	-	1.3	1.1	2.1	2.0	-
3544	Special dies, tools, jigs, and fixtures	41.5	40.7	41.1	41.3	-	4.2	3.4	3.7	3.9	-
3545	Machine tool accessories	37.4	37.6	39.2	39.6	-	1.2	1.3	1.9	2.4	-
3546	Power driven hand tools	39.0	39.2	38.9	40.5	-	1.1	1.5	1.7	2.5	-
355	Special industry machinery	40.0	39.1	40.3	40.6	-	2.2	2.0	2.4	2.5	-
3551	Food products machinery	39.9	39.6	40.5	40.4	-	2.2	2.3	2.1	2.2	-
3552	Textile machinery	38.9	38.3	39.9	40.8	-	1.1	.9	1.9	2.0	-
3555	Printing trades machinery	40.5	39.4	40.6	40.3	-	2.6	2.4	3.2	3.0	-
356	General industrial machinery	38.8	38.5	39.7	40.2	-	1.7	1.7	1.9	2.4	-
3561	Pumps and pumping equipment	38.6	37.6	39.5	40.2	-	1.5	1.2	1.4	1.8	-
3562	Ball and roller bearings	39.1	38.6	41.3	42.2	-	1.8	2.1	2.7	3.4	-
3563	Air and gas compressors	39.5	39.0	39.6	39.1	-	2.3	2.5	1.7	1.5	-
3564	Blowers and fans	40.6	40.3	39.8	40.3	-	2.4	2.2	1.6	2.0	-
3566	Speed changers, drives, and gears	36.6	37.3	37.9	38.5	-	.9	.9	1.5	1.9	-
3568	Power transmission equipment, nec	36.7	37.4	39.0	38.2	-	1.1	1.3	2.1	2.1	-
357	Office and computing machines	41.3	40.8	40.8	41.0	-	2.3	2.0	2.2	2.4	-
3573	Electronic computing equipment	41.6	41.0	41.0	41.2	-	2.5	2.2	2.4	2.6	-
358	Refrigeration and service machinery	39.8	40.0	40.1	40.6	-	2.3	2.0	1.9	2.7	-
3585	Refrigeration and heating equipment	40.1	40.3	40.8	41.1	-	2.4	2.0	2.1	2.8	-
359	Misc. machinery, except electrical	39.4	39.1	39.6	40.0	-	2.5	2.3	2.5	2.7	-
3592	Carburetors, pistons, rings, valves	40.5	38.8	41.2	41.4	-	2.7	1.9	3.4	3.4	-
3599	Machinery, except electrical, nec	39.2	39.2	39.4	39.7	-	2.5	2.3	2.4	2.6	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	39.5	39.1	40.2	40.6	40.2	1.9	1.7	2.2	2.5	-
361	Electric distributing equipment	38.7	38.2	39.4	39.5	-	1.7	1.4	1.8	2.2	-
3612	Transformers	39.1	38.7	39.9	39.9	-	2.2	1.6	1.8	2.6	-
3613	Switchgear and switchboard apparatus	38.4	37.8	39.0	39.2	-	1.4	1.3	1.8	2.0	-
362	Electrical industrial apparatus	38.8	38.4	39.7	40.3	-	1.6	1.7	2.1	2.5	-
3621	Motors and generators	39.9	39.7	40.6	41.1	-	1.9	2.2	2.4	2.8	-
3622	Industrial controls	37.6	37.1	38.8	39.3	-	1.4	1.1	1.8	2.2	-
363	Household appliances	38.8	37.9	39.0	39.6	-	1.4	1.3	1.5	1.5	-
3632	Household refrigerators and freezers	39.6	40.8	39.4	39.7	-	1.6	1.8	1.5	.6	-
3633	Household laundry equipment	38.3	37.8	39.1	39.4	-	.6	.5	1.2	1.6	-
3634	Electric housewares and fans	38.4	36.2	38.6	39.5	-	1.1	1.2	1.3	1.9	-
364	Electric lighting and wiring equipment	38.9	38.7	41.1	40.9	-	1.6	1.5	2.7	2.8	-
3641	Electric lamps	38.9	39.0	42.6	42.0	-	1.5	1.0	2.8	2.7	-
3643	Current-carrying wiring devices	39.3	39.0	41.0	40.7	-	1.8	2.1	2.9	2.8	-
3644	Noncurrent-carrying wiring devices	36.8	38.8	39.9	39.7	-	1.0	.9	1.9	1.9	-
3645	Residential lighting fixtures	37.3	36.4	41.5	40.6	-	1.0	.7	2.3	2.0	-
365	Radio and TV receiving equipment	40.1	39.1	39.8	39.8	-	1.9	1.6	2.2	2.1	-
3651	Radio and TV receiving sets	40.4	39.2	40.0	40.2	-	2.1	1.6	2.5	2.4	-
366	Communication equipment	40.4	39.9	40.4	40.8	-	2.0	1.9	2.1	2.2	-
3661	Telephone and telegraph apparatus	39.8	39.4	40.6	41.1	-	1.6	1.4	2.2	2.6	-
3662	Radio and TV communication equipment	40.7	40.2	40.3	40.6	-	2.2	2.1	2.0	2.0	-
367	Electronic components and accessories	39.6	39.4	40.3	40.9	-	2.2	2.1	2.5	2.8	-
3671-3	Electronic tubes	40.9	40.8	40.3	41.6	-	2.1	1.7	1.7	2.1	-
3674	Semiconductors and related devices	39.6	39.5	40.7	41.5	-	2.5	2.4	3.0	3.4	-
3679	Electronic components, nec	39.9	39.7	40.5	40.7	-	2.3	2.1	2.5	2.7	-
369	Misc. electrical equipment and supplies	40.3	39.4	40.6	41.2	-	2.0	1.5	2.4	2.8	-
3691	Storage batteries	39.2	38.4	39.9	40.2	-	1.6	1.7	1.9	2.0	-
3694	Engine electrical equipment	39.9	38.7	41.7	42.8	-	2.1	1.3	3.5	4.4	-
37	TRANSPORTATION EQUIPMENT	41.6	40.6	41.9	42.4	41.9	3.3	3.0	3.5	4.1	-
371	Motor vehicles and equipment	42.8	41.3	43.3	44.0	-	4.0	3.3	4.3	5.2	-
3711	Motor vehicles and car bodies	43.2	41.9	43.3	44.3	-	3.9	3.6	4.2	5.5	-
3713	Truck and bus bodies	40.9	40.1	40.1	40.5	-	2.6	1.7	1.8	2.5	-
3714	Motor vehicle parts and accessories	43.0	41.1	43.8	44.2	-	4.4	3.3	4.7	5.3	-
3715	Truck trailers	38.1	36.6	40.2	41.1	-	1.0	.6	2.4	3.3	-
372	Aircraft and parts	40.9	40.4	41.0	40.9	-	3.0	2.8	2.7	2.8	-
3721	Aircraft	40.3	40.4	40.5	40.6	-	2.4	2.2	2.1	2.4	-
3724	Aircraft engines and engine parts	40.7	39.9	40.4	39.9	-	3.5	3.2	3.2	3.0	-
3728	Aircraft equipment, nec	42.1	40.9	42.5	42.3	-	3.5	3.6	3.3	3.5	-
373	Ship and boat building and repairing	39.8	39.6	39.6	40.3	-	2.4	2.5	2.4	3.3	-
3731	Ship building and repairing	40.0	39.7	39.5	-	-	2.7	2.6	2.4	-	-
3732	Boat building and repairing	39.1	39.1	40.0	40.0	-	1.5	2.0	2.3	2.4	-
374	Railroad equipment	37.7	37.3	38.1	39.2	-	1.2	1.2	1.4	2.1	-

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				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	\$439.55	\$436.91	\$470.49	\$481.82	-	\$10.88	\$10.95	\$11.56	\$11.61	-
3761	Guided missiles and space vehicles	448.84	443.37	482.21	496.10	-	11.11	11.14	11.79	11.84	-
379	Miscellaneous transportation equipment	372.19	366.38	390.98	386.23	-	8.99	8.98	9.75	9.68	-
3792	Travel trailers and campers	294.12	291.46	332.88	329.64	-	7.60	7.61	8.26	8.20	-
38	INSTRUMENTS AND RELATED PRODUCTS	324.82	321.95	341.74	340.05	\$337.00	8.08	8.13	8.48	8.48	\$8.51
381	Engineering and scientific instruments	338.18	340.49	363.60	361.34	-	8.35	8.47	8.89	8.90	-
382	Measuring and controlling devices	320.40	316.74	338.75	336.60	-	7.99	8.08	8.49	8.50	-
3822	Environmental controls	282.37	281.63	307.72	309.29	-	7.47	7.51	7.83	7.83	-
3823	Process control instruments	332.52	334.11	334.26	334.62	-	8.17	8.27	8.38	8.45	-
3825	Instruments to measure electricity	339.88	331.45	363.91	358.70	-	8.31	8.37	9.03	8.99	-
383	Optical instruments and lenses	343.13	342.05	379.20	387.77	-	8.41	8.53	9.05	9.06	-
384	Medical instruments and supplies	278.69	271.60	298.07	293.86	-	7.02	7.00	7.32	7.31	-
3841	Surgical and medical instruments	282.80	269.50	296.61	295.65	-	7.07	7.00	7.36	7.30	-
3842	Surgical appliances and supplies	276.50	274.31	288.68	293.93	-	7.00	6.98	7.29	7.33	-
385	Ophthalmic goods	238.99	231.77	252.57	247.17	-	6.02	6.02	6.33	6.42	-
386	Photographic equipment and supplies	435.94	433.68	455.39	453.60	-	10.53	10.45	11.08	11.20	-
387	Watches, clocks, and watchcases	243.14	237.00	252.68	257.40	-	6.14	6.14	6.27	6.34	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	247.81	244.86	264.62	264.52	264.88	6.42	6.41	6.82	6.80	6.88
391	Jewelry, silverware, and plated ware	255.94	253.45	272.98	269.31	-	6.88	6.85	7.26	7.22	-
3911	Jewelry, precious metal	252.25	247.32	262.70	261.25	-	6.93	6.87	7.10	7.08	-
393	Musical instruments	243.46	246.54	261.41	257.85	-	6.34	6.21	6.72	6.75	-
394	Toys and sporting goods	235.20	228.90	247.40	248.82	-	6.00	5.93	6.36	6.38	-
3942, 4	Dolls, games, toys, and children's vehicles	222.30	220.56	233.31	233.70	-	5.70	5.67	6.06	6.07	-
3949	Sporting and athletic goods, nec	248.22	238.46	261.35	264.26	-	6.30	6.21	6.65	6.69	-
395	Pens, pencils, office and art supplies	267.85	262.25	281.18	281.29	-	6.63	6.69	6.96	6.98	-
396	Costume jewelry and notions	210.27	204.80	205.62	211.30	-	5.49	5.55	5.68	5.68	-
3961	Costume jewelry	198.40	188.03	176.59	179.57	-	5.14	5.18	5.24	5.19	-
399	Miscellaneous manufactures	264.96	263.96	292.59	291.73	-	6.90	6.91	7.37	7.33	-
3993	Signs and advertising displays	280.06	281.18	321.60	311.63	-	7.37	7.38	8.04	7.83	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	311.65	311.26	321.47	325.17	325.14	7.91	7.88	8.18	8.17	8.19
201	Meat products	297.89	296.72	290.47	297.54	-	7.58	7.55	7.41	7.42	-
2011	Meat packing plants	369.15	369.56	357.39	362.10	-	9.07	8.97	8.55	8.54	-
2013	Sausages and other prepared meats	367.43	363.77	369.44	378.43	-	9.14	9.14	9.19	9.23	-
2016	Poultry dressing plants	189.21	190.46	152.36	200.09	-	5.10	5.12	5.27	5.35	-
202	Dairy products	335.69	338.16	346.88	352.78	-	8.05	8.09	8.44	8.46	-
2022	Cheese, natural and processed	309.50	314.57	313.08	319.16	-	7.68	7.71	8.09	8.08	-
2026	Fluid milk	350.70	354.88	363.24	368.01	-	8.35	8.35	8.69	8.70	-
203	Preserved fruits and vegetables	266.76	266.04	286.85	280.46	-	7.02	6.91	7.47	7.40	-
2032	Canned specialties	323.21	327.22	343.94	353.36	-	8.02	8.02	8.62	8.79	-
2033	Canned fruits and vegetables	266.40	266.34	299.52	280.88	-	7.20	6.90	7.68	7.49	-
2037	Frozen fruits and vegetables	243.57	252.56	262.51	259.62	-	6.53	6.56	6.89	6.85	-
204	Grain mill products	373.01	390.06	394.06	403.52	-	8.86	9.05	9.36	9.45	-
2041	Flour and other grain mill products	376.70	420.44	435.48	439.33	-	8.72	9.14	9.55	9.53	-
2048	*Prepared feeds, nec	302.40	309.40	317.05	318.12	-	7.00	7.08	7.46	7.33	-
205	Bakery products	319.66	319.96	339.07	343.15	-	8.39	8.42	8.83	8.89	-
2051	Bread, cake, and related products	322.43	321.86	337.55	344.32	-	8.53	8.56	8.93	8.99	-
2052	Cookies and crackers	311.22	314.38	344.00	338.37	-	7.98	8.02	8.60	8.61	-
206	Sugar and confectionery products	310.47	317.60	312.34	319.19	-	7.86	7.96	8.05	8.04	-
2061-3	Cane and beet sugar	368.45	372.49	383.36	400.32	-	9.12	9.22	9.56	9.60	-
2065	Confectionery products	268.27	275.34	262.45	269.04	-	6.95	7.06	6.98	6.97	-
207	Fats and oils	357.62	359.93	374.27	382.30	-	8.24	8.39	8.89	8.87	-
208	Beverages	401.55	401.14	414.46	424.77	-	9.77	9.76	10.31	10.31	-
2082	Malt beverages	573.31	577.70	578.56	587.00	-	13.21	13.25	13.71	13.91	-
2086	Bottled and canned soft drinks	295.57	299.47	309.28	328.72	-	7.28	7.34	7.81	7.94	-
209	Misc. foods and kindred products	253.33	253.13	270.43	271.10	-	6.81	6.86	7.25	7.21	-
21	TOBACCO MANUFACTURES	397.82	383.46	401.68	420.42	422.78	10.36	10.42	10.74	10.92	11.01
211	Cigarettes	451.22	431.30	466.50	484.82	-	11.72	11.72	12.44	12.56	-
22	TEXTILE MILL PRODUCTS	220.40	216.13	248.67	253.18	249.89	5.80	5.81	6.14	6.16	6.17
221	Weaving mills, cotton	223.43	215.28	261.70	266.80	-	5.99	5.98	6.43	6.46	-
222	Weaving mills, synthetics	230.35	227.67	267.65	273.73	-	6.11	6.17	6.56	6.58	-
223	Weaving and finishing mills, wool	246.98	233.38	264.32	268.62	-	6.19	6.24	6.40	6.52	-
224	Narrow fabric mills	215.36	212.46	230.26	237.46	-	5.48	5.49	5.80	5.82	-
225	Knitting mills	200.84	199.60	221.31	223.34	-	5.37	5.38	5.66	5.64	-

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				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	40.4	39.9	40.7	41.5	-	2.7	2.7	2.8	3.1	-
3781	Guided missiles and space vehicles	40.4	39.8	40.9	41.9	-	2.6	2.5	2.9	3.4	-
379	Miscellaneous transportation equipment	41.4	40.8	40.1	39.9	-	3.8	3.6	2.9	2.8	-
3792	Travel trailers and campers	38.7	38.3	40.3	40.2	-	1.6	1.9	3.0	3.1	-
INSTRUMENTS AND RELATED PRODUCTS											
38	.....	40.2	39.6	40.3	40.1	39.6	1.7	1.5	1.7	1.9	-
381	Engineering and scientific instruments	40.5	40.2	40.9	40.6	-	2.0	1.7	2.3	2.1	-
382	Measuring and controlling devices	40.1	39.2	39.9	39.6	-	1.2	1.0	1.4	1.5	-
3822	Environmental controls	37.8	37.5	39.3	39.5	-	.7	.9	1.9	1.9	-
3823	Process control instruments	40.7	40.4	39.9	39.6	-	1.3	1.2	1.0	1.3	-
3825	Instruments to measure electricity	40.9	39.6	40.3	39.9	-	1.1	.9	1.2	1.2	-
383	Optical instruments and lenses	40.8	40.1	41.9	42.8	-	2.1	1.9	2.5	2.7	-
384	Medical instruments and supplies	39.7	38.8	39.9	40.2	-	2.2	1.7	2.0	2.4	-
3841	Surgical and medical instruments	40.0	38.5	40.3	40.5	-	2.6	1.8	2.1	2.3	-
3842	Surgical appliances and supplies	39.5	39.3	39.6	40.1	-	2.0	1.7	1.9	2.6	-
385	Ophthalmic goods	39.7	38.5	39.9	38.5	-	1.4	1.2	1.5	1.8	-
386	Photographic equipment and supplies	41.4	41.5	41.1	40.5	-	1.9	2.0	1.6	1.8	-
387	Watches, clocks, and watchcases	39.6	38.6	40.3	40.6	-	1.5	1.2	3.0	3.1	-
MISCELLANEOUS MANUFACTURING											
39	INDUSTRIES	38.6	38.2	38.8	38.9	38.5	1.6	1.3	1.8	1.8	-
391	Jewelry, silverware, and plated ware	37.2	37.0	37.6	37.3	-	1.2	.5	1.5	1.4	-
3911	Jewelry, precious metal	36.4	36.0	37.0	36.9	-	1.2	.6	1.4	1.3	-
393	Musical instruments	38.4	39.7	38.9	38.2	-	.9	.3	1.0	1.1	-
394	Toys and sporting goods	39.2	38.6	38.9	39.0	-	1.5	1.3	1.6	1.7	-
3942, 4	Dolls, games, toys, and children's vehicles	39.0	38.9	38.5	38.5	-	1.2	1.0	1.5	1.4	-
3949	Sporting and athletic goods, nec	39.4	38.4	39.3	39.5	-	1.9	1.7	1.6	2.1	-
395	Pens, pencils, office and art supplies	40.4	39.2	40.4	40.3	-	1.9	1.6	2.0	2.2	-
396	Costume jewelry and notions	38.3	36.9	36.2	37.2	-	2.1	1.6	1.8	2.2	-
3961	Costume jewelry	38.6	36.3	33.7	34.6	-	2.8	2.4	1.5	1.7	-
399	Miscellaneous manufactures	38.4	38.2	39.7	39.8	-	1.6	1.5	2.1	2.0	-
3993	Signs and advertising displays	38.0	38.1	40.0	39.8	-	1.8	1.6	2.7	2.0	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	.....	39.4	39.5	39.3	39.8	39.7	3.3	3.7	3.2	3.5	-
201	Meat products	39.3	39.3	39.2	40.1	-	3.3	3.4	3.3	3.8	-
2011	Meat packing plants	40.7	41.2	41.8	42.4	-	4.0	4.2	4.4	4.8	-
2013	Sausages and other prepared meats	40.2	39.8	40.2	41.0	-	3.6	3.5	3.7	4.7	-
2016	Poultry dressing plants	37.1	37.2	36.5	37.4	-	2.3	2.4	2.2	2.5	-
202	Dairy products	41.7	41.8	41.1	41.7	-	4.1	4.2	3.9	4.3	-
2022	Cheese, natural and processed	40.3	40.8	38.7	39.5	-	3.2	3.5	3.1	3.4	-
2026	Fluid milk	42.0	42.5	41.8	42.3	-	4.3	4.6	4.2	4.5	-
203	Preserved fruits and vegetables	38.0	38.5	38.4	37.9	-	2.5	4.1	2.7	2.9	-
2032	Canned specialties	40.3	40.8	39.9	40.2	-	2.4	3.1	3.3	4.0	-
2033	Canned fruits and vegetables	37.0	38.6	39.0	37.5	-	2.3	4.8	2.4	2.8	-
2037	Frozen fruits and vegetables	37.3	38.5	38.1	37.9	-	2.3	4.0	2.7	2.5	-
204	Grain mill products	42.1	43.1	42.1	42.7	-	4.7	5.4	4.6	4.9	-
2041	Flour and other grain mill products	43.2	46.0	45.6	46.1	-	5.1	6.1	6.2	5.9	-
2048	Prepared feeds, nec	43.2	43.7	42.5	43.4	-	5.6	5.8	5.1	5.7	-
205	Bakery products	38.1	38.0	38.4	38.6	-	2.9	2.9	3.1	3.1	-
2051	Bread, cake, and related products	37.8	37.6	37.8	38.3	-	3.3	3.2	3.3	3.5	-
2052	Cookies and crackers	39.0	39.2	40.0	39.3	-	1.8	2.1	2.6	2.2	-
206	Sugar and confectionery products	39.5	39.9	38.8	39.7	-	2.5	2.5	2.0	2.1	-
2061-3	Cane and beet sugar	40.4	40.4	40.1	41.7	-	3.7	4.0	2.9	3.5	-
2065	Confectionery products	38.6	39.0	37.6	38.6	-	2.0	2.0	1.4	1.5	-
207	Fats and oils	43.4	42.9	42.1	43.1	-	5.3	5.3	4.6	5.2	-
208	Beverages	41.1	41.1	40.2	41.2	-	4.2	4.2	3.7	4.1	-
2082	Malt beverages	43.4	43.6	42.2	42.2	-	6.1	6.1	5.6	5.7	-
2086	Bottled and canned soft drinks	40.6	40.8	39.6	41.4	-	4.0	3.8	3.1	3.9	-
209	Misc. foods and kindred products	37.2	36.9	37.3	37.6	-	2.7	3.2	2.6	2.9	-
TOBACCO MANUFACTURES											
21	.....	38.4	36.8	37.4	38.5	38.4	1.5	1.4	.8	1.7	-
211	Cigarettes	38.5	36.8	37.5	38.6	-	1.7	1.6	.7	1.7	-
TEXTILE MILL PRODUCTS											
22	.....	38.0	37.2	40.5	41.1	40.5	2.2	1.9	3.5	3.8	-
221	Weaving mills, cotton	37.3	36.0	40.7	41.3	-	2.0	1.8	3.8	4.3	-
222	Weaving mills, synthetics	37.7	36.9	40.8	41.6	-	1.9	1.8	3.7	3.9	-
223	Weaving and finishing mills, wool	39.9	37.4	41.3	41.2	-	3.5	2.7	4.1	4.2	-
224	Narrow fabric mills	39.3	38.7	39.7	40.8	-	2.0	1.4	2.1	2.6	-
225	Knitting mills	37.4	37.1	39.1	39.6	-	1.9	1.8	2.9	3.0	-

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				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	TEXTILE MILL PRODUCTS—Continued										
2251	Women's hosiery, except socks	\$189.81	\$196.32	\$213.98	\$221.00	-	\$5.13	\$5.18	\$5.39	\$5.43	-
2252	Hosiery, nec	191.29	192.46	212.16	217.60	-	5.17	5.23	5.44	5.44	-
2253	Knit outerwear mills	194.11	193.88	200.19	202.54	-	5.19	5.24	5.44	5.43	-
2254	Knit underwear mills	179.87	177.66	198.59	204.19	-	5.11	5.12	5.31	5.29	-
2257	Circular knit fabric mills	235.20	223.61	271.79	264.80	-	6.00	5.90	6.38	6.35	-
226	Textile finishing, except wool	244.11	230.02	274.21	278.99	-	6.18	6.20	6.56	6.58	-
2261	Finishing plants, cotton	243.13	230.63	281.11	287.95	-	6.25	6.25	6.63	6.65	-
2262	Finishing plants, synthetics	251.27	228.55	274.99	281.63	-	6.41	6.42	6.74	6.77	-
227	Floor covering mills	226.31	227.93	259.15	272.16	-	5.94	6.03	6.29	6.30	-
228	Yarn and thread mills	209.34	202.20	238.71	240.12	-	5.48	5.45	5.78	5.80	-
2281	Yarn mills, except wool	207.97	201.25	242.18	244.76	-	5.43	5.41	5.78	5.80	-
2282	Throwing and winding mills	196.84	192.75	215.81	215.99	-	5.32	5.31	5.62	5.61	-
229	Miscellaneous textile goods	259.75	257.15	280.22	284.39	-	6.51	6.51	6.72	6.82	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	184.60	183.73	152.41	196.71	\$192.95	5.20	5.19	5.33	5.36	\$5.33
231	Men's and boys' suits and coats	210.99	215.04	218.84	226.67	-	5.91	5.99	6.13	6.21	-
232	Men's and boys' furnishings	174.95	173.26	182.65	185.71	-	4.78	4.76	4.91	4.90	-
2321	Men's and boys' shirts and nightwear	172.14	167.80	173.59	175.68	-	4.64	4.61	4.73	4.71	-
2327	Men's and boys' separate trousers	170.85	173.99	180.41	184.26	-	4.84	4.86	4.97	4.98	-
2328	Men's and boys' work clothing	174.94	171.92	184.73	189.93	-	4.69	4.71	4.90	4.87	-
233	Women's and misses' outerwear	170.67	172.03	178.16	183.91	-	5.11	5.12	5.24	5.30	-
2331	Women's and misses' blouses and waists	165.90	161.11	165.73	174.52	-	4.74	4.59	4.86	4.93	-
2335	Women's and misses' dresses	168.53	173.96	177.45	181.61	-	5.25	5.32	5.41	5.52	-
2337	Women's and misses' suits and coats	186.48	193.97	194.88	204.83	-	5.60	5.79	5.80	5.92	-
2339	Women's and misses' outerwear, nec	167.31	165.58	177.21	180.36	-	4.95	4.87	5.02	5.01	-
234	Women's and children's undergarments	163.10	161.58	174.24	175.93	-	4.66	4.67	4.84	4.82	-
2341	Women's and children's underwear	162.03	159.38	172.08	174.43	-	4.59	4.58	4.78	4.74	-
2342	Brassieres and allied garments	170.02	171.36	184.37	186.21	-	5.06	5.10	5.15	5.29	-
236	Children's outerwear	174.33	170.28	168.63	177.60	-	4.75	4.73	4.75	4.80	-
2361	Children's dresses and blouses	169.20	169.10	165.90	176.27	-	4.70	4.75	4.74	4.79	-
238	Misc. apparel and accessories	185.96	183.37	190.58	190.99	-	5.18	5.18	5.25	5.32	-
239	Misc. fabricated textile products	238.64	231.76	249.95	252.80	-	6.28	6.23	6.36	6.40	-
2391	Curtains and draperies	166.61	158.00	188.37	190.39	-	4.68	4.62	4.88	4.82	-
2392	House furnishing, nec	192.65	191.51	209.67	208.29	-	5.11	5.19	5.39	5.41	-
2396	Automotive and apparel trimmings	443.47	425.06	431.36	446.26	-	10.79	10.60	10.47	10.60	-
26	PAPER AND ALLIED PRODUCTS	389.34	392.40	415.94	424.71	431.85	9.27	9.41	9.81	9.90	10.09
261, 26	Paper and pulp mills	476.28	485.76	509.01	520.04	-	10.80	10.99	11.49	11.66	-
262	Paper mills, except building paper	480.34	492.35	513.60	525.15	-	10.77	10.99	11.49	11.67	-
263	Paperboard mills	474.57	463.56	516.09	519.36	-	10.96	11.09	12.03	12.05	-
264	Misc. converted paper products	332.93	333.68	353.50	362.37	-	8.18	8.28	8.58	8.69	-
2641	Paper coating and glazing	386.98	392.92	413.45	418.82	-	9.28	9.40	9.66	9.74	-
2642	Envelopes	298.15	296.74	315.97	320.40	-	7.51	7.57	8.04	8.03	-
2643	Bags, except textile bags	311.71	313.03	327.62	334.53	-	7.64	7.71	8.03	8.10	-
265	Paperboard containers and boxes	332.93	332.49	357.37	366.34	-	8.14	8.23	8.57	8.64	-
2651	Folding paperboard boxes	339.89	336.56	368.46	371.07	-	8.29	8.31	8.90	8.92	-
2653	Corrugated and solid fiber boxes	349.81	349.57	374.82	387.56	-	8.47	8.61	8.84	8.93	-
2654	Sanitary food containers	316.65	324.53	350.65	364.46	-	7.78	7.82	8.27	8.34	-
27	PRINTING AND PUBLISHING	320.29	322.88	337.57	339.22	342.75	8.68	8.75	9.05	9.07	9.14
271	Newspapers	291.61	294.92	306.19	306.67	-	8.81	8.91	9.14	9.10	-
272	Periodicals	323.47	322.54	353.56	350.39	-	8.79	8.91	9.53	9.47	-
273	Books	293.97	299.89	319.32	317.52	-	8.01	8.04	8.23	8.40	-
2731	Book publishing	285.07	288.77	301.42	298.58	-	7.81	7.89	7.87	7.92	-
2732	Book printing	303.69	313.24	340.81	340.48	-	8.23	8.20	8.65	8.96	-
274	Miscellaneous publishing	292.47	292.88	286.94	298.29	-	7.82	7.81	8.06	8.24	-
275	Commercial printing	341.76	346.62	359.98	361.30	-	8.97	9.05	9.35	9.36	-
2751	Commercial printing, letterpress	319.22	325.56	340.36	341.76	-	8.49	8.59	8.91	8.90	-
2752	Commercial printing, lithographic	350.98	353.66	365.37	366.14	-	9.14	9.21	9.49	9.51	-
276	Manifold business forms	343.65	343.30	368.15	378.94	-	8.70	8.78	9.09	9.22	-
278	Blankbooks and bookbinding	259.29	259.16	274.12	276.26	-	6.70	6.82	7.12	7.12	-
279	Printing trade services	400.81	403.58	415.34	409.96	-	10.52	10.51	10.93	10.76	-
28	CHEMICALS AND ALLIED PRODUCTS	406.55	406.00	435.75	440.37	440.77	9.94	10.00	10.50	10.51	10.57
281	Industrial inorganic chemicals	445.67	447.23	477.10	482.89	-	10.95	11.07	11.58	11.58	-
2818	Industrial inorganic chemicals, nec	446.82	449.84	482.80	485.30	-	11.06	11.19	11.69	11.61	-
282	Plastics materials and synthetics	398.69	398.38	440.58	449.63	-	9.82	9.91	10.49	10.53	-
2821	Plastics materials and resins	443.04	442.57	482.66	492.78	-	10.65	10.69	11.33	11.46	-
2824	Organic fibers, noncellulosic	377.34	372.33	424.20	436.75	-	9.41	9.45	10.10	10.11	-
283	Drugs	367.11	364.41	393.60	393.71	-	9.02	9.02	9.60	9.51	-
2834	Pharmaceutical preparations	348.87	345.71	377.17	378.33	-	8.70	8.73	9.29	9.25	-

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				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	TEXTILE MILL PRODUCTS—Continued										
2251	Women's hosiery, except socks	37.0	37.9	39.7	40.7	-	2.0	1.9	2.7	3.4	-
2252	Hosiery, nec	37.0	36.8	39.0	40.0	-	1.9	1.9	2.9	3.2	-
2253	Knit outerwear mills	37.4	37.0	36.8	37.3	-	1.6	1.8	2.0	2.0	-
2254	Knit underwear mills	35.2	34.7	37.4	38.6	-	.7	.7	1.7	1.7	-
2257	Circular knit fabric mills	39.2	37.9	42.6	41.7	-	2.9	1.7	4.3	3.9	-
226	Textile finishing, except wool	39.5	37.1	41.8	42.4	-	2.8	1.8	4.3	4.5	-
2261	Finishing plants, cotton	38.9	36.9	42.4	43.3	-	2.3	1.5	4.5	4.5	-
2262	Finishing plants, synthetics	39.2	35.6	40.8	41.6	-	3.2	1.8	3.8	4.6	-
227	Floor covering mills	38.1	37.8	41.2	43.2	-	1.6	1.9	3.8	5.0	-
228	Yarn and thread mills	38.2	37.1	41.3	41.4	-	2.4	2.0	3.8	3.9	-
2281	Yarn mills, except wool	38.3	37.2	41.9	42.2	-	2.4	2.0	4.3	4.3	-
2282	Throwing and winding mills	37.0	36.3	38.4	38.5	-	1.9	1.8	2.6	2.7	-
228	Miscellaneous textile goods	39.9	39.5	41.7	41.7	-	2.8	2.3	3.4	3.4	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.5	35.4	36.1	36.7	36.2	1.1	.9	1.2	1.4	-
231	Men's and boys' suits and coats	35.7	35.9	35.7	36.5	-	.9	.6	.5	.8	-
232	Men's and boys' furnishings	36.6	36.4	37.2	37.9	-	1.0	.9	1.1	1.3	-
2321	Men's and boys' shirts and nightwear	37.1	36.4	36.7	37.3	-	1.3	.9	1.1	1.4	-
2327	Men's and boys' separate trousers	35.3	35.8	36.3	37.0	-	.8	1.0	1.1	1.3	-
2328	Men's and boys' work clothing	37.3	36.5	37.7	39.0	-	1.2	1.1	1.1	1.4	-
233	Women's and misses' outerwear	33.4	33.6	34.0	34.7	-	.8	.9	1.0	1.3	-
2331	Women's and misses' blouses and waists	35.0	35.1	34.1	35.4	-	1.0	1.0	.9	1.1	-
2335	Women's and misses' dresses	32.1	32.7	32.8	32.9	-	.7	1.0	.9	1.1	-
2337	Women's and misses' suits and coats	33.3	33.5	33.6	34.6	-	.6	.9	.9	1.1	-
2339	Women's and misses' outerwear, nec	33.8	34.0	35.3	36.0	-	1.0	.9	1.3	1.5	-
234	Women's and children's undergarments	35.0	34.6	36.0	36.5	-	.9	.7	.9	1.1	-
2341	Women's and children's underwear	35.3	34.8	36.0	36.8	-	1.0	.7	1.0	1.2	-
2342	Brassieres and allied garments	33.6	33.6	35.8	35.2	-	.6	.5	.6	.9	-
236	Children's outerwear	36.7	36.0	35.5	37.0	-	1.3	1.0	.9	1.5	-
2361	Children's dresses and blouses	36.0	35.6	35.0	36.8	-	.9	1.2	.8	1.3	-
238	Misc. apparel and accessories	35.9	35.4	36.3	35.9	-	.9	.8	1.4	1.1	-
239	Misc. fabricated textile products	38.0	37.2	39.3	39.5	-	2.0	1.2	2.2	2.2	-
2391	Curtains and draperies	35.6	34.2	38.6	39.5	-	1.4	.6	1.5	1.3	-
2392	House furnishings, nec	37.7	36.9	38.9	38.5	-	1.5	1.0	2.2	2.1	-
2396	Automotive and apparel trimmings	41.1	40.1	41.2	42.1	-	4.2	2.5	3.5	4.1	-
26	PAPER AND ALLIED PRODUCTS	42.0	41.7	42.4	42.9	42.8	3.9	4.0	4.4	4.7	-
261, 2, 6	Paper and pulp mills	44.1	44.2	44.3	44.6	-	5.7	5.9	6.0	6.3	-
262	Paper mills, except building paper	44.6	44.8	44.7	45.0	-	5.8	6.0	6.2	6.4	-
263	Paperboard mills	43.3	41.8	42.9	43.1	-	6.3	6.0	6.7	6.9	-
264	Misc. converted paper products	40.7	40.3	41.2	41.7	-	2.4	2.4	2.8	3.1	-
2641	Paper coating and glazing	41.7	41.8	42.8	43.0	-	2.4	2.2	2.7	3.0	-
2642	Envelopes	39.7	39.2	39.3	39.9	-	1.8	1.8	2.1	2.2	-
2643	Bags, except textile bags	40.8	40.6	40.8	41.3	-	2.5	2.6	2.8	2.8	-
265	Paperboard containers and boxes	40.9	40.4	41.7	42.4	-	3.0	3.1	3.6	4.1	-
2651	Folding paperboard boxes	41.0	40.5	41.4	41.6	-	2.8	3.0	3.4	3.5	-
2653	Corrugated and solid fiber boxes	41.3	40.6	42.4	43.4	-	3.5	3.5	4.1	4.7	-
2654	Sanitary food containers	40.7	41.5	42.4	43.7	-	2.9	3.3	3.8	4.3	-
27	PRINTING AND PUBLISHING	36.9	36.9	37.3	37.4	37.5	2.0	2.1	2.3	2.3	-
271	Newspapers	33.1	33.1	33.5	33.7	-	1.3	1.3	1.4	1.4	-
272	Periodicals	36.8	36.2	37.1	37.0	-	2.0	1.9	2.0	2.0	-
273	Books	36.7	37.3	38.8	37.8	-	1.2	1.7	2.9	2.5	-
2731	Book publishing	36.5	36.6	38.3	37.7	-	.9	.9	1.7	1.2	-
2732	Book printing	36.9	38.2	39.4	38.0	-	1.6	2.6	4.4	3.9	-
274	Miscellaneous publishing	37.4	37.5	35.6	36.2	-	1.4	1.3	1.5	1.7	-
275	Commercial printing	38.1	38.3	38.5	38.6	-	2.4	2.5	2.7	2.6	-
2751	Commercial printing, letterpress	37.6	37.9	38.2	38.4	-	2.0	2.1	2.4	2.4	-
2752	Commercial printing, lithographic	38.4	38.4	38.5	38.5	-	2.5	2.5	2.7	2.6	-
276	Manifold business forms	39.5	39.1	40.5	41.1	-	2.2	2.3	2.6	3.2	-
278	Blankbooks and bookbinding	38.7	38.0	38.5	38.8	-	1.3	1.3	1.8	1.7	-
279	Printing trade service	38.1	38.4	38.0	38.1	-	3.3	3.6	3.4	3.3	-
28	CHEMICALS AND ALLIED PRODUCTS	40.9	40.6	41.5	41.9	41.7	2.8	2.7	3.1	3.2	-
281	Industrial inorganic chemicals	40.7	40.4	41.2	41.7	-	3.0	2.7	2.7	2.9	-
2819	Industrial inorganic chemicals, nec	40.4	40.2	41.3	41.8	-	3.0	2.8	2.7	2.9	-
282	Plastics materials and synthetics	40.6	40.2	42.0	42.7	-	2.6	2.4	3.3	3.4	-
2821	Plastics materials and resins	41.6	41.4	42.6	43.0	-	3.4	3.4	4.0	4.2	-
2824	Organic fibers, noncellulosic	40.1	39.4	42.0	43.2	-	2.1	1.7	3.1	3.2	-
283	Drugs	40.7	40.4	41.0	41.4	-	2.5	2.4	2.7	2.7	-
2834	Pharmaceutical preparations	40.1	39.6	40.6	40.9	-	2.5	2.4	2.7	2.7	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$374.74	\$365.62	\$393.01	\$400.61	-	\$9.14	\$9.05	\$9.68	\$9.70	-
2841	Soap and other detergents	514.61	497.28	540.00	554.46	-	11.83	11.84	12.50	12.63	-
2844	Toilet preparations	287.17	285.32	308.90	315.19	-	7.27	7.26	7.86	7.86	-
2842, 3	Polishing, sanitation, and finishing preparations	357.75	356.13	362.06	365.71	-	8.79	8.75	9.12	9.12	-
285	Paints and allied products	358.35	354.60	383.05	392.37	-	8.87	8.87	9.32	9.32	-
286	Industrial organic chemicals	497.70	504.00	537.20	541.45	-	11.85	12.00	12.64	12.74	-
2865	Cyclic crudes and intermediates	467.87	479.55	495.04	493.85	-	11.22	11.50	11.90	11.90	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	507.73	511.94	549.12	555.54	-	12.06	12.16	12.86	12.98	-
287	Agricultural chemicals	400.19	412.41	427.28	428.71	-	9.62	9.89	9.96	10.04	-
289	Miscellaneous chemical products	373.18	375.60	390.45	397.85	-	9.26	9.32	9.50	9.61	-
29	PETROLEUM AND COAL PRODUCTS	553.83	546.48	575.53	576.41	\$570.71	12.53	12.42	13.17	13.13	\$13.15
291	Petroleum refining	600.32	589.18	627.54	622.84	-	13.46	13.36	14.23	14.22	-
295	Paving and roofing materials	409.03	425.25	410.55	438.75	-	9.36	9.45	9.57	9.75	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	307.17	303.73	327.57	328.75	334.14	7.66	7.67	7.97	7.96	8.13
301	Tires and inner tubes	478.88	473.80	516.01	501.82	-	11.68	11.67	12.17	12.18	-
302	Rubber and plastics footwear	200.46	184.14	159.05	193.04	-	5.14	4.95	5.17	5.08	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	334.15	323.59	316.52	337.00	-	8.15	8.11	8.20	8.28	-
306	Fabricated rubber products, nec	292.25	287.73	307.04	314.52	-	7.27	7.34	7.60	7.69	-
307	Miscellaneous plastics products	278.10	276.50	301.49	303.37	-	6.97	7.00	7.30	7.31	-
31	LEATHER AND LEATHER PRODUCTS	196.35	190.97	204.42	207.90	207.20	5.35	5.29	5.51	5.50	5.54
311	Leather tanning and finishing	287.43	274.32	306.47	306.34	-	7.15	7.07	7.53	7.49	-
314	Footwear, except rubber	186.95	181.20	192.31	196.50	-	5.15	5.09	5.24	5.24	-
3143	Men's footwear, except athletic	196.74	185.33	202.20	209.88	-	5.39	5.28	5.45	5.48	-
3144	Women's footwear, except athletic	183.32	180.64	188.49	191.35	-	5.05	5.06	5.15	5.13	-
316	Luggage	205.92	196.06	230.89	237.77	-	5.72	5.65	6.06	6.05	-
317	Handbags and personal leather goods	181.06	183.38	195.52	193.26	-	4.92	4.89	5.20	5.14	-
	TRANSPORTATION AND PUBLIC UTILITIES	400.86	403.37	415.64	419.54	425.32	10.20	10.29	10.74	10.73	10.85
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	491.12	485.83	517.34	-	-	11.29	11.54	12.68	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	248.40	274.88	248.88	255.19	-	7.20	7.49	7.32	7.55	-
411	Local and suburban transportation	300.99	306.86	312.31	319.84	-	7.62	7.71	8.07	8.18	-
413	Intercity highway transportation	416.88	442.23	427.83	427.32	-	11.58	11.92	11.47	11.87	-
42	TRUCKING AND WAREHOUSING	397.70	392.06	401.00	404.17	-	10.25	10.21	10.47	10.39	-
421, 3	Trucking and trucking terminals	405.46	398.98	408.28	412.23	-	10.45	10.39	10.66	10.57	-
422	Public warehousing	285.57	288.73	288.80	287.65	-	7.36	7.48	7.60	7.63	-
46	PIPE LINES, EXCEPT NATURAL GAS	529.91	543.52	579.10	587.02	-	12.41	12.64	14.09	14.01	-
48	COMMUNICATION	395.00	395.21	415.35	420.79	-	10.00	9.98	10.65	10.68	-
481	Telephone communication	413.76	415.60	443.98	450.87	-	10.37	10.39	11.24	11.30	-
4817	Switchboard operating employees ³	293.72	301.53	331.92	336.78	-	8.69	8.74	9.82	9.79	-
4818	Line construction employees ⁴	514.03	512.40	536.29	550.38	-	12.01	12.00	12.83	12.95	-
483	Radio and television broadcasting	333.90	322.71	325.97	326.71	-	8.81	8.56	8.81	8.83	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	440.08	443.39	468.95	469.89	-	10.63	10.71	11.41	11.35	-
491	Electric services	452.76	456.46	475.69	477.57	-	10.78	10.92	11.49	11.48	-
492	Gas production and distribution	386.92	390.72	417.68	419.23	-	9.53	9.60	10.39	10.25	-
493	Combination utility services	499.37	501.77	543.02	542.75	-	12.15	12.12	13.18	13.11	-
495	Sanitary services	349.25	353.83	370.48	377.04	-	8.56	8.63	8.80	8.83	-
-	WHOLESALE AND RETAIL TRADE	198.38	202.12	205.43	207.05	209.95	6.18	6.20	6.46	6.45	6.46
50, 51	WHOLESALE TRADE	306.46	310.76	321.86	323.15	325.53	7.96	8.03	8.36	8.35	8.39
50	WHOLESALE TRADE-DURABLE GOODS	308.49	310.44	322.09	324.18	-	7.91	7.96	8.28	8.27	-
501	Motor vehicles and automotive equipment	277.53	278.97	288.41	293.70	-	7.19	7.19	7.55	7.55	-
502	Furniture and home furnishings	273.06	275.28	280.87	281.25	-	7.36	7.40	7.51	7.52	-
503	Lumber and construction materials	307.32	311.64	312.03	314.41	-	7.88	7.95	7.96	7.98	-
504	Sporting goods, toys, and hobby goods	317.81	323.76	335.89	331.96	-	8.43	8.52	8.77	8.69	-

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				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	41.0	40.4	40.6	41.3	-	2.8	2.5	2.9	3.4	-
2841	Soap and other detergents	43.5	42.0	43.2	43.9	-	4.1	3.8	4.2	4.9	-
2844	Toilet preparations	39.5	39.3	39.3	40.1	-	2.0	1.8	2.5	2.8	-
2842, 3	Polishing, sanitation, and finishing preparations ..	40.7	40.7	39.7	40.1	-	2.5	2.3	1.9	2.5	-
285	Paints and allied products	40.4	40.0	41.1	42.1	-	2.6	2.6	2.9	3.5	-
286	Industrial organic chemicals	42.0	42.0	42.5	42.5	-	3.0	3.2	3.3	3.5	-
2885	Cyclic crudes and intermediates	41.7	41.7	41.6	41.5	-	2.5	2.4	3.2	3.3	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	42.1	42.1	42.7	42.8	-	3.2	3.4	3.4	3.6	-
287	Agricultural chemicals	41.6	41.7	42.9	42.7	-	3.3	3.5	4.6	4.2	-
289	Miscellaneous chemical products	40.3	40.3	41.1	41.4	-	2.4	2.4	2.9	2.7	-
29	PETROLEUM AND COAL PRODUCTS	44.2	44.0	43.7	43.9	43.4	4.1	4.1	3.9	4.0	-
291	Petroleum refining	44.6	44.1	44.1	43.8	-	3.7	3.4	3.6	3.2	-
296	Paving and roofing materials	43.7	45.0	42.9	45.0	-	6.4	7.6	5.8	7.8	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	40.1	39.6	41.1	41.3	41.1	2.8	2.7	3.4	3.4	-
301	Tires and inner tubes	41.0	40.6	42.4	41.2	-	2.6	2.9	3.7	3.0	-
302	Rubber and plastics footwear	39.0	37.2	38.5	38.0	-	1.9	1.4	1.8	1.5	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	41.0	39.9	38.6	40.7	-	2.1	2.8	1.9	2.9	-
306	Fabricated rubber products, nec	40.2	39.2	40.4	40.9	-	2.5	2.3	2.7	3.1	-
307	Miscellaneous plastics products	39.9	39.5	41.3	41.5	-	2.9	2.7	3.6	3.6	-
31	LEATHER AND LEATHER PRODUCTS	36.7	36.1	37.1	37.8	37.4	1.6	1.2	1.4	1.6	-
311	Leather tanning and finishing	40.2	38.8	40.7	40.9	-	3.1	2.0	3.5	3.7	-
314	Footwear, except rubber	36.3	35.6	36.7	37.5	-	1.5	1.1	1.2	1.4	-
3143	Men's footwear, except athletic	36.5	35.1	37.1	38.3	-	1.3	.8	.9	1.0	-
3144	Women's footwear, except athletic	36.3	35.7	36.6	37.3	-	2.0	1.4	1.5	1.8	-
316	Luggage	36.0	34.7	38.1	39.3	-	2.2	2.0	1.9	2.4	-
317	Handbags and personal leather goods	36.8	37.5	37.6	37.6	-	1.0	1.5	.9	1.3	-
-	TRANSPORTATION AND PUBLIC UTILITIES	39.3	39.2	38.7	39.1	39.2	-	-	-	-	-
4011	RAILROAD TRANSPORTATION: Class I railroads ²	43.5	42.1	40.8	-	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	34.5	36.7	34.0	33.8	-	-	-	-	-	-
411	Local and suburban transportation	39.5	39.8	38.7	39.1	-	-	-	-	-	-
413	Intercity highway transportation	36.0	37.1	37.3	36.0	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	38.8	38.4	38.3	38.9	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	38.8	38.4	38.3	39.0	-	-	-	-	-	-
422	Public warehousing	38.8	38.6	38.0	37.7	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	42.7	43.0	41.1	41.9	-	-	-	-	-	-
48	COMMUNICATION	39.5	39.6	39.0	39.4	-	-	-	-	-	-
481	Telephone communication	39.9	40.0	39.5	39.9	-	-	-	-	-	-
4817	Switchboard operating employees ³	33.8	34.5	33.8	34.4	-	-	-	-	-	-
4818	Line construction employees ⁴	42.8	42.7	41.8	42.5	-	-	-	-	-	-
483	Radio and television broadcasting	37.9	37.7	37.0	37.0	-	-	-	-	-	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.4	41.4	41.1	41.4	-	-	-	-	-	-
491	Electric services	42.0	41.8	41.4	41.6	-	-	-	-	-	-
492	Gas production and distribution	40.6	40.7	40.2	40.9	-	-	-	-	-	-
493	Combination utility services	41.1	41.4	41.2	41.4	-	-	-	-	-	-
496	Sanitary services	40.8	41.0	42.1	42.7	-	-	-	-	-	-
-	WHOLESALE AND RETAIL TRADE	32.1	32.6	31.8	32.1	32.5	-	-	-	-	-
50, 51	WHOLESALE TRADE	38.5	38.7	38.5	38.7	38.8	-	-	-	-	-
50	WHOLESALE TRADE-DURABLE GOODS	39.0	39.0	38.9	39.2	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	38.6	38.8	38.2	38.9	-	-	-	-	-	-
502	Furniture and home furnishings	37.1	37.2	37.4	37.4	-	-	-	-	-	-
503	Lumber and construction materials	39.0	39.2	39.2	39.4	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.7	38.0	38.3	38.2	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	\$350.75	\$352.30	\$362.06	\$365.92	-	\$9.04	\$9.08	\$9.12	\$9.08	-
506	Electrical goods	331.01	336.15	347.77	346.43	-	8.38	8.51	8.94	8.86	-
507	Hardware, plumbing, and heating equipment	287.90	290.25	303.02	303.42	-	7.42	7.50	7.83	7.80	-
508	Machinery, equipment, and supplies	320.69	322.29	337.26	338.91	-	8.16	8.18	8.56	8.58	-
509	Miscellaneous durable goods	248.35	249.29	263.50	262.36	-	6.57	6.63	6.88	6.85	-
51	WHOLESALE TRADE-NONDURABLE GOODS	305.52	310.18	320.63	322.71	-	8.04	8.12	8.46	8.47	-
511	Paper and paper products	327.25	329.25	343.16	337.07	-	8.75	8.78	9.20	9.11	-
512	Drugs, proprietaries, and sundries	330.48	334.40	342.06	348.18	-	8.86	8.87	9.22	9.26	-
513	Apparel, piece goods, and notions	265.72	268.63	303.40	303.03	-	7.32	7.38	8.20	8.19	-
514	Groceries and related products	303.66	309.93	324.02	324.17	-	7.97	8.05	8.46	8.42	-
516	Chemicals and allied products	369.59	375.39	386.70	387.50	-	9.55	9.65	9.89	9.86	-
517	Petroleum and petroleum products	380.55	378.50	387.70	391.23	-	9.49	9.51	9.84	9.83	-
518	Beer, wine, and distilled beverages	352.91	357.93	368.81	377.35	-	9.59	9.70	10.16	10.31	-
519	Miscellaneous nondurable goods	250.87	254.41	259.62	259.99	-	6.55	6.66	6.85	6.86	-
52-59	RETAIL TRADE	164.35	167.93	169.59	171.87	\$174.73	5.46	5.47	5.71	5.71	\$5.71
52	BUILDING MATERIALS AND GARDEN SUPPLIES	217.18	223.34	218.51	223.35	-	5.95	6.02	6.19	6.17	-
521	Lumber and other building materials	236.22	241.88	235.22	239.94	-	6.20	6.25	6.48	6.45	-
525	Hardware stores	180.60	184.28	182.27	187.62	-	5.25	5.25	5.49	5.47	-
53	GENERAL MERCHANDISE STORES	157.63	161.76	163.83	166.91	-	5.38	5.41	5.63	5.62	-
531	Department stores	162.64	167.44	169.07	172.57	-	5.57	5.60	5.83	5.83	-
533	Variety stores	129.21	130.23	128.48	132.41	-	4.38	4.37	4.37	4.37	-
539	Misc. general merchandise stores	131.50	135.60	136.48	138.31	-	4.34	4.36	4.58	4.52	-
54	FOOD STORES	224.64	229.60	224.99	230.95	-	7.20	7.22	7.45	7.45	-
541	Grocery stores	234.99	239.25	234.99	241.32	-	7.46	7.50	7.73	7.71	-
546	Retail bakeries	146.58	147.50	142.34	145.00	-	5.02	5.00	5.12	5.16	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	236.37	237.89	249.38	252.96	-	6.32	6.31	6.74	6.80	-
551, 2	New and used car dealers	280.42	279.27	303.58	310.52	-	7.36	7.33	8.01	8.15	-
553	Auto and home supply stores	239.98	247.05	241.92	245.96	-	5.94	6.07	6.14	6.18	-
554	Gasoline service stations	178.11	180.58	182.18	181.31	-	5.06	5.03	5.22	5.21	-
56	APPAREL AND ACCESSORY STORES	138.23	140.84	139.61	142.57	-	4.85	4.84	5.04	5.02	-
561	Men's and boys' clothing and furnishings	173.95	176.96	176.62	178.25	-	5.47	5.53	5.81	5.75	-
562	Women's ready-to-wear stores	123.12	126.73	126.76	129.64	-	4.51	4.51	4.73	4.68	-
565	Family clothing stores	139.68	141.60	138.50	143.71	-	4.85	4.80	5.00	4.99	-
566	Shoe stores	141.15	142.43	146.16	148.53	-	4.97	4.98	5.22	5.23	-
57	FURNITURE AND HOME FURNISHINGS STORES	213.28	215.56	222.05	222.67	-	6.20	6.23	6.55	6.53	-
571	Furniture and home furnishings stores	212.44	213.75	220.38	224.29	-	6.23	6.25	6.52	6.52	-
572	Household appliance stores	233.69	233.99	233.20	234.27	-	6.62	6.61	6.92	6.87	-
573	Radio, television, and music stores	203.55	210.50	221.27	213.76	-	5.90	5.98	6.47	6.40	-
58	EATING AND DRINKING PLACES⁵	107.71	109.89	112.99	113.16	-	4.03	4.07	4.28	4.27	-
59	MISCELLANEOUS RETAIL	167.23	169.91	173.40	174.47	-	5.35	5.36	5.63	5.61	-
591	Drug stores and proprietary stores	148.34	152.28	151.15	153.22	-	5.08	5.11	5.36	5.32	-
594	Miscellaneous shopping goods stores	151.39	155.06	152.70	154.74	-	4.98	4.97	5.09	5.09	-
596	Nonstore retailers	203.52	202.34	215.78	216.45	-	6.13	6.15	6.48	6.50	-
598	Fuel and ice dealers	266.25	270.89	283.87	283.50	-	7.10	7.11	7.59	7.56	-
599	Retail stores, nec	181.60	180.28	193.30	191.15	-	5.47	5.43	5.84	5.81	-
-	FINANCE, INSURANCE, AND REAL ESTATE⁶	242.23	245.07	265.35	261.73	263.54	6.71	6.77	7.31	7.25	7.28
60	BANKING	209.66	213.96	228.38	225.32	-	5.76	5.83	6.24	6.19	-
602	Commercial and stock savings banks	206.02	209.39	223.26	220.22	-	5.66	5.69	6.10	6.05	-
61	CREDIT AGENCIES OTHER THAN BANKS	218.73	220.70	238.65	232.41	-	5.96	6.03	6.45	6.35	-
612	Savings and loan associations	198.55	200.63	210.82	206.07	-	5.50	5.62	5.84	5.74	-
614	Personal credit institutions	222.60	224.55	245.80	241.23	-	6.00	6.02	6.52	6.45	-
63	INSURANCE CARRIERS	282.31	283.42	305.11	303.85	-	7.63	7.66	8.18	8.19	-
631	Life insurance	290.86	289.75	305.81	307.55	-	7.84	7.81	8.31	8.38	-
632	Medical service and health insurance	269.72	270.83	295.22	291.80	-	7.27	7.30	7.81	7.74	-
633	Fire, marine, and casualty insurance	277.45	280.39	304.30	301.18	-	7.56	7.64	8.18	8.14	-

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				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	38.8	38.8	39.7	40.3	-	-	-	-	-	
506	Electrical goods	39.5	39.5	38.9	39.1	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment	38.8	38.7	38.7	38.9	-	-	-	-	-	
508	Machinery, equipment, and supplies	39.3	39.4	39.4	39.5	-	-	-	-	-	
509	Miscellaneous durable goods	37.8	37.6	38.3	38.3	-	-	-	-	-	
51	WHOLESALE TRADE-NONDURABLE GOODS	38.0	38.2	37.9	38.1	-	-	-	-	-	
511	Paper and paper products	37.4	37.5	37.3	37.0	-	-	-	-	-	
512	Drugs, proprietaries, and sundries	37.3	37.7	37.1	37.6	-	-	-	-	-	
513	Apparel, piece goods, and notions	36.3	36.4	37.0	37.0	-	-	-	-	-	
514	Groceries and related products	38.1	38.5	38.3	38.5	-	-	-	-	-	
516	Chemicals and allied products	38.7	38.9	39.1	39.3	-	-	-	-	-	
517	Petroleum and petroleum products	40.1	39.8	39.4	39.8	-	-	-	-	-	
518	Beer, wine, and distilled beverages	36.8	36.9	36.3	36.6	-	-	-	-	-	
519	Miscellaneous nondurable goods	38.3	38.2	37.9	37.9	-	-	-	-	-	
52-59	RETAIL TRADE	30.1	30.7	29.7	30.1	30.6	-	-	-	-	
52	BUILDING MATERIALS AND GARDEN SUPPLIES	36.5	37.1	35.3	36.2	-	-	-	-	-	
521	Lumber and other building materials	38.1	38.7	36.3	37.2	-	-	-	-	-	
525	Hardware stores	34.4	35.1	33.2	34.3	-	-	-	-	-	
53	GENERAL MERCHANDISE STORES	29.3	29.9	29.1	29.7	-	-	-	-	-	
531	Department stores	29.2	29.9	29.0	29.6	-	-	-	-	-	
533	Variety stores	29.5	29.8	29.4	30.3	-	-	-	-	-	
539	Misc. general merchandise stores	30.3	31.1	29.8	30.6	-	-	-	-	-	
54	FOOD STORES	31.2	31.8	30.2	31.0	-	-	-	-	-	
541	Grocery stores	31.5	31.9	30.4	31.3	-	-	-	-	-	
546	Retail bakeries	29.2	29.5	27.8	28.1	-	-	-	-	-	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	37.4	37.7	37.0	37.2	-	-	-	-	-	
551, 2	New and used car dealers	38.1	38.1	37.9	38.1	-	-	-	-	-	
553	Auto and home supply stores	40.4	40.7	39.4	39.8	-	-	-	-	-	
554	Gasoline service stations	35.2	35.9	34.9	34.8	-	-	-	-	-	
56	APPAREL AND ACCESSORY STORES	28.5	29.1	27.7	28.4	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	31.8	32.0	30.4	31.0	-	-	-	-	-	
562	Women's ready-to-wear stores	27.3	28.1	26.8	27.7	-	-	-	-	-	
565	Family clothing stores	28.8	29.5	27.7	28.8	-	-	-	-	-	
566	Shoe stores	28.4	28.6	28.0	28.4	-	-	-	-	-	
57	FURNITURE AND HOME FURNISHINGS STORES	34.4	34.6	33.9	34.1	-	-	-	-	-	
571	Furniture and home furnishings stores	34.1	34.2	33.8	34.4	-	-	-	-	-	
572	Household appliance stores	35.3	35.4	33.7	34.1	-	-	-	-	-	
573	Radio, television, and music stores	34.5	35.2	34.2	33.4	-	-	-	-	-	
58	EATING AND DRINKING PLACES ⁵	26.4	27.0	26.4	26.5	-	-	-	-	-	
59	MISCELLANEOUS RETAIL	31.2	31.7	30.8	31.1	-	-	-	-	-	
591	Drug stores and proprietary stores	29.2	29.8	28.2	28.8	-	-	-	-	-	
594	Miscellaneous shopping goods stores	30.4	31.2	30.0	30.4	-	-	-	-	-	
596	Nonstore retailers	33.2	32.9	33.3	33.3	-	-	-	-	-	
598	Fuel and ice dealers	37.5	38.1	37.4	37.5	-	-	-	-	-	
599	Retail stores, nec	33.2	33.2	33.1	32.9	-	-	-	-	-	
	FINANCE, INSURANCE, AND REAL ESTATE ⁶	36.1	36.2	36.3	36.1	36.2	-	-	-	-	
60	BANKING	36.4	36.7	36.6	36.4	-	-	-	-	-	
602	Commercial and stock savings banks	36.4	36.8	36.6	36.4	-	-	-	-	-	
61	CREDIT AGENCIES OTHER THAN BANKS	36.7	36.6	37.0	36.6	-	-	-	-	-	
612	Savings and loan associations	36.1	35.7	36.1	35.9	-	-	-	-	-	
614	Personal credit institutions	37.1	37.3	37.7	37.4	-	-	-	-	-	
63	INSURANCE CARRIERS	37.0	37.0	37.3	37.1	-	-	-	-	-	
631	Life insurance	37.1	37.1	36.8	36.7	-	-	-	-	-	
632	Medical service and health insurance	37.1	37.1	37.8	37.7	-	-	-	-	-	
633	Fire, marine, and casualty insurance	36.7	36.7	37.2	37.0	-	-	-	-	-	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	SERVICES	\$224.35	\$227.40	\$236.42	\$236.55	\$238.38	\$6.84	\$6.87	\$7.23	\$7.19	\$7.18
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts ⁵	152.91	153.82	162.44	162.96	-	5.03	4.93	5.24	5.24	-
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	171.52	171.31	183.65	184.62	-	5.12	5.16	5.37	5.43	-
723	Beauty shops ⁵	157.86	160.68	156.06	157.51	-	5.21	5.41	5.40	5.45	-
73	BUSINESS SERVICES	226.98	229.60	245.49	245.16	-	6.92	7.00	7.35	7.34	-
731	Advertising	327.96	331.36	355.75	347.62	-	9.11	9.23	9.72	9.55	-
734	Services to buildings	152.28	154.94	167.48	167.76	-	5.64	5.76	5.96	5.97	-
737	Computer and data processing services	310.12	316.60	348.17	345.71	-	8.45	8.58	9.02	9.05	-
75	AUTO REPAIR, SERVICES, AND GARAGES	253.64	255.94	261.20	262.20	-	6.71	6.70	6.91	6.90	-
753	Automotive repair shops	280.86	282.96	289.77	290.12	-	7.22	7.20	7.43	7.42	-
76	MISCELLANEOUS REPAIR SERVICES	308.80	312.78	315.15	320.19	-	8.00	8.02	8.25	8.21	-
78	MOTION PICTURES	232.96	241.40	269.28	263.95	-	8.32	8.50	9.90	9.36	-
781	Motion picture production and services	463.64	483.12	545.67	535.65	-	12.43	13.20	14.10	13.77	-
79	AMUSEMENT AND RECREATION SERVICES	185.13	190.40	190.92	198.13	-	6.05	5.95	6.45	6.27	-
80	HEALTH SERVICES	228.39	233.80	237.33	239.11	-	6.90	7.00	7.28	7.29	-
801	Offices of physicians	217.73	217.28	227.52	224.51	-	6.72	6.79	7.20	7.15	-
802	Offices of dentists	189.89	191.87	159.64	197.25	-	6.71	6.78	7.13	7.07	-
805	Nursing and personal care facilities	151.83	156.98	158.26	159.26	-	4.32	4.86	5.04	5.04	-
806	Hospitals	256.62	264.83	272.68	276.92	-	7.46	7.61	8.02	8.05	-
81	LEGAL SERVICES	297.91	306.59	323.64	321.55	-	8.51	8.81	9.30	9.24	-
89	MISCELLANEOUS SERVICES	394.98	397.70	411.57	410.12	-	10.18	10.25	10.69	10.57	-
891	Engineering and architectural services	429.26	431.34	455.83	450.60	-	10.84	10.92	11.54	11.35	-
893	Accounting, auditing, and bookkeeping	319.03	328.04	341.19	340.86	-	8.44	8.61	9.05	8.97	-

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 1982 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustments" under the Establishment Data section of the Explanatory Notes.

**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				
		June 1982	July 1982	May 1983	June 1983P	July 1983P	June 1982	July 1982	May 1983	June 1983P	July 1983P
	SERVICES	32.8	33.1	32.7	32.9	33.2	-	-	-	-	-
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts ²	30.4	31.2	31.0	31.1	-	-	-	-	-	
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	33.5	33.2	34.2	34.0	-	-	-	-	-	
723	Beauty shops ²	30.3	29.7	28.9	28.9	-	-	-	-	-	
	BUSINESS SERVICES	32.8	32.8	33.4	33.4	-	-	-	-	-	
731	Advertising	36.0	35.9	36.6	36.4	-	-	-	-	-	
734	Services to buildings	27.0	26.9	28.1	28.1	-	-	-	-	-	
737	Computer and data processing services	36.7	36.9	38.6	38.2	-	-	-	-	-	
	AUTO REPAIR, SERVICES, AND GARAGES	37.8	38.2	37.8	38.0	-	-	-	-	-	
753	Automotive repair shops	38.9	39.3	39.0	39.1	-	-	-	-	-	
76	MISCELLANEOUS REPAIR SERVICES	38.6	39.0	38.2	39.0	-	-	-	-	-	
	MOTION PICTURES	28.0	28.4	27.2	28.2	-	-	-	-	-	
781	Motion picture production and services	37.3	36.6	38.7	38.9	-	-	-	-	-	
79	AMUSEMENT AND RECREATION SERVICES	30.6	32.0	29.6	31.6	-	-	-	-	-	
	HEALTH SERVICES	33.1	33.4	32.6	32.8	-	-	-	-	-	
801	Offices of physicians	32.4	32.0	31.6	31.4	-	-	-	-	-	
802	Offices of dentists	28.3	28.3	28.0	27.9	-	-	-	-	-	
806	Nursing and personal care facilities	31.5	32.3	31.4	31.6	-	-	-	-	-	
806	Hospitals	34.4	34.8	34.0	34.4	-	-	-	-	-	
81	LEGAL SERVICES	34.6	34.8	34.8	34.8	-	-	-	-	-	
	MISCELLANEOUS SERVICES	38.8	38.8	38.5	38.8	-	-	-	-	-	
891	Engineering and architectural services	39.6	39.5	39.5	39.7	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	37.8	38.1	37.7	38.0	-	-	-	-	-	

ESTABLISHMENT DATA HOURS AND EARNINGS

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

Major industry group	Average hourly earnings excluding overtime ¹				
	June 1982	July 1982	May 1983	June 1983P	July 1983P
MANUFACTURING	\$8.25	\$8.31	\$8.49	\$8.49	\$8.55
DURABLE GOODS	8.81	8.87	9.04	9.05	9.08
Lumber and wood products	7.30	7.35	7.50	7.52	-
Furniture and fixtures	6.17	6.21	6.36	6.41	-
Stone, clay, and glass products	8.47	8.53	8.78	8.81	-
Primary metal industries	11.01	11.07	10.91	10.86	-
Fabricated metal products	8.58	8.63	8.80	8.80	-
Machinery, except electrical	9.04	9.09	9.33	9.35	-
Electric and electronic equipment	7.95	8.05	8.37	8.38	-
Transportation equipment	10.78	10.85	11.07	11.09	-
Instruments and related products	7.91	7.99	8.30	8.28	-
Miscellaneous manufacturing industries	6.25	6.31	6.67	6.65	-
NONDURABLE GOODS	7.46	7.52	7.75	7.74	7.82
Food and kindred products	7.59	7.52	7.86	7.82	-
Tobacco manufactures	10.15	10.22	10.63	10.68	-
Textile mill products	5.64	5.67	5.89	5.89	-
Apparel and other textile products	5.12	5.13	5.24	5.26	-
Paper and allied products	8.86	8.98	9.33	9.39	-
Printing and publishing	8.45	8.51	8.78	8.80	-
Chemicals and allied products	9.61	9.69	10.12	10.12	-
Petroleum and coal products	11.98	11.87	12.61	12.56	-
Rubber and misc. plastics products	7.40	7.42	7.65	7.65	-
Leather and leather products	5.24	5.21	5.41	5.38	-

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

p = preliminary.

C-4. Gross average weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division, in current and constant (1977) dollars

Industry	June 1982	July 1982	May 1983	June 1983P	July 1983P
TOTAL PRIVATE:					
Current dollars	\$267.40	\$270.34	\$278.15	\$281.34	\$282.85
Constant (1977) dollars	167.33	168.12	170.33	171.86	-
MINING:					
Current dollars	461.38	461.55	472.64	479.40	\$474.55
Constant (1977) dollars	288.72	287.03	289.43	292.85	-
CONSTRUCTION:					
Current dollars	430.13	440.42	441.32	445.33	\$450.38
Constant (1977) dollars	269.17	273.89	270.25	272.08	-
MANUFACTURING:					
Current dollars	334.05	332.60	350.32	355.92	\$355.29
Constant (1977) dollars	209.04	206.84	214.53	217.42	-
TRANSPORTATION AND PUBLIC UTILITIES:					
Current dollars	400.86	403.37	415.64	419.54	\$425.32
Constant (1977) dollars	250.85	250.85	254.53	256.29	-
WHOLESALE AND RETAIL TRADE:					
Current dollars	198.38	202.12	205.43	207.05	\$209.95
Constant (1977) dollars	124.14	125.70	125.80	126.48	-
FINANCE, INSURANCE, AND REAL ESTATE:					
Current dollars	242.23	245.07	265.35	261.73	\$263.54
Constant (1977) dollars	151.58	152.41	162.49	159.88	-
SERVICES:					
Current dollars	224.35	227.40	236.42	236.55	\$238.38
Constant (1977) dollars	140.39	141.42	144.78	144.50	-

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	June 1982	July 1982	May 1983	June 1983P	July 1983P
	Hours				
TOTAL PRIVATE	106.4	106.2	104.8	107.3	108.0
GOODS-PRODUCING	93.9	94.8	90.6	94.0	93.9
MINING	135.9	130.9	110.2	114.5	113.1
CONSTRUCTION	107.7	111.1	101.1	109.2	113.7
MANUFACTURING	89.2	86.2	87.7	90.0	89.1
DURABLE GOODS	87.4	83.9	84.7	86.9	86.0
Lumber and wood products	80.8	79.4	90.6	96.8	96.6
Furniture and fixtures	86.4	81.1	92.0	95.2	92.7
Stone, clay, and glass products	83.4	82.5	82.1	85.8	85.7
Primary metal industries	71.3	67.6	65.2	66.5	66.6
Fabricated metal products	84.4	80.5	81.9	83.9	82.3
Machinery, except electrical	94.2	89.0	81.7	82.9	82.7
Electric and electronic equipment	97.9	94.3	97.9	100.5	99.4
Transportation equipment	83.9	81.0	84.8	85.9	85.1
Instruments and related products	110.0	106.5	101.4	101.6	98.6
Miscellaneous manufacturing industries	83.8	80.1	82.0	83.7	81.8
NONDURABLE GOODS	91.9	89.6	92.1	94.7	93.7
Food and kindred products	94.0	97.9	91.5	95.9	94.5
Tobacco manufactures	87.3	81.8	79.7	81.9	81.4
Textile mill products	75.8	72.2	80.5	82.8	80.5
Apparel and other textile products	88.9	81.3	88.2	91.4	86.7
Paper and allied products	93.9	92.0	93.6	95.9	95.8
Printing and publishing	105.4	104.5	107.1	107.6	108.0
Chemicals and allied products	96.5	94.4	94.9	96.8	96.0
Petroleum and coal products	95.3	95.7	93.6	95.5	96.6
Rubber and misc. plastics products	95.5	91.3	99.5	101.9	101.7
Leather and leather products	87.0	77.9	82.9	86.2	75.5
SERVICE-PRODUCING	113.3	114.2	112.6	114.7	115.9
TRANSPORTATION AND PUBLIC UTILITIES	104.3	103.0	99.5	101.3	100.6
WHOLESALE AND RETAIL TRADE	106.3	107.4	104.0	106.4	107.5
WHOLESALE TRADE	110.4	110.3	106.9	108.8	109.1
RETAIL TRADE	104.8	106.2	102.9	105.5	106.9
FINANCE, INSURANCE, AND REAL ESTATE	118.2	118.8	118.7	120.0	121.1
SERVICES	123.6	125.1	125.8	128.0	129.9

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 nonagricultural payrolls by industry division and major manufacturing group—Continued

(1977=100)

Industry division and group	June 1982	July 1982	May 1983	June 1983P	July 1983P
	Payrolls				
TOTAL PRIVATE	154.9	155.3	159.1	163.0	164.6
GOODS-PRODUCING	140.9	139.1	139.9	145.5	146.5
MINING	210.9	204.6	177.7	185.9	185.4
CONSTRUCTION	152.4	158.9	147.3	158.3	165.4
MANUFACTURING	133.6	129.8	135.6	139.6	139.1
DURABLE GOODS	130.8	126.1	130.5	134.3	133.4
Lumber and wood products	119.5	118.2	138.3	148.9	149.4
Furniture and fixtures	125.3	118.1	138.1	144.7	141.8
Stone, clay, and glass products	127.0	126.7	130.0	136.8	138.1
Primary metal industries	108.8	103.8	99.2	101.0	102.5
Fabricated metal products	126.0	120.6	125.9	129.4	126.7
Machinery, except electrical	139.9	132.5	125.1	127.8	127.6
Electric and electronic equipment	147.8	144.0	156.1	161.1	159.7
Transportation equipment	129.2	125.1	134.1	137.1	135.4
Instruments and related products	167.9	163.7	162.5	162.9	158.6
Miscellaneous manufacturing industries	123.4	117.7	128.1	130.5	129.1
NONDURABLE GOODS	138.6	136.3	144.7	149.0	149.1
Food and kindred products	138.5	143.5	139.4	145.9	150.1
Tobacco manufactures	163.2	153.9	154.4	161.4	161.7
Textile mill products	110.3	105.2	124.0	128.0	124.8
Apparel and other textile products	127.5	116.6	129.7	135.1	127.6
Paper and allied products	146.1	145.3	153.9	159.3	162.2
Printing and publishing	149.3	149.3	158.4	159.4	161.2
Chemicals and allied products	149.1	146.9	154.8	158.2	157.8
Petroleum and coal products	152.5	151.7	157.5	160.1	162.3
Rubber and misc. plastics products	141.4	135.5	153.2	156.9	159.8
Leather and leather products	129.1	114.4	126.6	131.5	116.0
SERVICE-PRODUCING	164.9	166.9	172.6	175.4	177.3
TRANSPORTATION AND PUBLIC UTILITIES	152.1	151.5	152.8	155.5	156.1
WHOLESALE AND RETAIL TRADE	153.6	155.5	157.1	160.6	162.3
WHOLESALE TRADE	163.1	164.3	165.7	168.6	169.7
RETAIL TRADE	148.5	150.2	152.5	156.4	158.4
FINANCE, INSURANCE, AND REAL ESTATE	174.6	177.2	190.9	191.4	194.2
SERVICES	181.6	184.8	195.4	197.9	200.6

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED HOURS**

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

Industry	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^p	July ^p
TOTAL PRIVATE	34.9	34.8	34.8	34.7	34.7	34.8	35.1	34.5	34.8	34.9	35.1	35.1	35.1
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	39.1	39.0	38.8	38.9	39.0	39.0	39.7	39.2	39.5	40.1	40.0	40.2	40.3
<i>Overtime hours</i>	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.6	2.9	2.7	2.9	3.1
DURABLE GOODS	39.6	39.4	39.1	39.2	39.3	39.3	40.1	39.7	39.9	40.5	40.4	40.6	40.8
<i>Overtime hours</i>	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.3	2.5	2.8	2.6	2.9	3.0
Lumber and wood products	38.5	38.2	38.4	38.1	38.7	38.8	40.5	39.5	39.5	40.0	39.8	40.0	39.9
Furniture and fixtures	37.4	37.8	37.5	37.5	37.6	37.8	38.6	37.9	38.3	39.3	39.2	39.6	39.9
Stone, clay, and glass products	40.5	40.2	40.2	40.2	40.2	40.1	41.4	40.5	40.6	41.0	41.2	41.6	41.8
Primary metal industries	38.8	38.6	37.8	38.2	38.3	38.8	38.9	39.1	39.4	39.9	40.3	40.3	40.8
Fabricated metal products	39.4	39.2	38.9	39.0	39.2	39.2	39.9	39.6	39.7	40.5	40.4	40.4	40.8
Machinery, except electrical	39.8	39.4	39.2	39.3	39.3	39.3	39.6	39.4	39.7	40.2	40.0	40.4	40.7
Electric and electronic equipment	39.6	39.3	39.0	39.2	39.3	39.4	39.9	39.5	39.8	40.4	40.3	40.5	40.7
Transportation equipment	40.9	40.6	40.1	40.4	40.9	40.1	41.6	41.2	41.7	42.3	41.6	42.0	42.2
Instruments and related products	40.1	40.0	39.9	39.6	39.4	39.7	40.4	39.7	40.0	40.5	40.4	40.0	40.1
Miscellaneous manufacturing ind	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
NONDURABLE GOODS	38.5	38.5	38.6	38.5	38.6	38.6	39.1	38.5	39.0	39.5	39.4	39.6	39.6
<i>Overtime hours</i>	2.5	2.5	2.6	2.6	2.5	2.5	2.6	2.6	2.7	3.0	2.9	3.0	3.2
Food and kindred products	39.4	39.2	39.4	39.5	39.4	39.1	39.3	39.0	39.2	39.6	39.4	39.8	39.6
Tobacco manufactures	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Textile mill products	37.7	38.1	38.1	38.3	38.8	38.9	39.7	39.0	39.6	40.6	40.4	40.7	41.0
Apparel and other textile products	35.1	35.0	35.1	35.1	35.0	35.1	36.6	35.2	35.6	36.2	36.1	36.2	35.9
Paper and allied products	41.9	41.7	41.6	41.7	41.7	41.7	41.8	41.4	42.1	42.4	42.7	42.8	43.0
Printing and publishing	37.0	36.9	37.0	37.1	37.1	37.1	37.5	37.1	37.4	37.7	37.4	37.6	37.7
Chemicals and allied products	40.8	40.9	41.0	40.8	40.7	40.9	41.0	41.0	41.2	41.5	41.6	41.9	41.9
Petroleum and coal products	43.4	44.0	44.2	43.8	44.1	44.4	44.5	44.4	44.9	43.5	43.6	43.7	42.8
Rubber and misc. plastics products	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Leather and leather products	36.0	36.0	35.7	35.4	35.8	35.8	36.3	34.9	36.0	37.0	36.8	36.8	37.3
TRANSPORTATION AND PUBLIC UTILITIES	38.9	39.2	38.8	38.8	38.9	38.9	38.6	38.6	38.8	38.8	38.9	38.9	38.9
WHOLESALE AND RETAIL TRADE	32.0	32.0	31.9	31.9	31.8	32.1	31.9	31.4	31.7	31.7	31.9	32.0	31.9
WHOLESALE TRADE	38.5	38.5	38.4	38.4	38.4	38.4	38.5	38.2	38.4	38.5	38.6	38.7	38.6
RETAIL TRADE	29.9	29.9	29.9	29.9	29.8	30.1	29.9	29.3	29.7	29.6	29.9	29.9	29.8
FINANCE, INSURANCE, AND REAL ESTATE	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
SERVICES	32.6	32.6	32.8	32.6	32.6	32.6	32.9	32.5	32.7	32.7	32.9	32.7	32.7

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

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.

p = preliminary.

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	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^p	July ^p
TOTAL PRIVATE	104.8	104.2	103.9	102.9	102.5	102.6	104.1	102.2	103.1	104.0	105.0	105.7	106.3
GOODS-PRODUCING	91.7	90.2	88.9	87.4	86.8	86.5	89.8	87.2	87.8	89.6	90.5	91.9	93.3
MINING	129.6	125.7	122.8	119.0	117.5	116.5	118.4	111.6	110.7	109.5	110.3	112.8	112.6
CONSTRUCTION	101.9	100.5	98.2	97.0	97.2	96.5	106.2	94.7	94.3	96.3	99.6	102.3	103.8
MANUFACTURING	87.9	86.6	85.6	84.0	83.3	83.1	85.5	84.1	85.4	87.4	87.8	88.9	90.4
DURABLE GOODS	86.0	83.9	82.0	79.9	79.0	78.8	81.4	80.4	81.6	83.7	84.3	85.4	87.5
Lumber and wood products	77.7	76.9	77.4	76.1	78.1	78.6	84.9	83.1	85.1	88.0	89.2	92.1	93.3
Furniture and fixtures	85.3	87.5	85.3	84.3	84.5	85.2	88.0	84.7	87.9	92.0	93.1	94.8	97.4
Stone, clay, and glass products	81.2	79.9	79.3	78.2	76.7	75.8	78.9	76.6	78.1	80.0	81.3	82.5	83.4
Primary metal industries	68.7	67.3	63.6	60.9	59.6	60.0	61.2	61.0	62.2	63.7	65.1	65.3	67.4
Fabricated metal products	83.4	81.5	79.7	77.9	77.0	76.9	79.2	78.9	79.4	81.4	82.0	82.6	84.4
Machinery, except electrical	91.7	88.0	85.8	82.3	80.4	79.6	79.4	78.4	78.7	80.0	81.4	82.5	84.9
Electric and electronic equipment	97.3	95.6	93.5	92.3	91.8	91.2	94.3	93.2	95.2	97.6	98.0	99.6	101.7
Transportation equipment	84.2	80.4	78.3	75.2	74.6	75.0	79.4	80.1	81.0	83.7	82.9	84.1	87.3
Instruments and related products	108.5	107.2	105.9	103.0	101.2	100.9	102.7	99.1	100.6	101.9	101.7	100.4	99.8
Miscellaneous manufacturing ind	83.8	82.1	80.8	80.9	79.4	78.4	81.0	77.7	80.7	82.9	82.4	83.0	85.0
NONDURABLE GOODS	90.7	90.5	90.8	90.1	89.7	89.5	91.7	89.6	91.0	92.8	92.9	94.1	94.8
Food and kindred products	96.0	94.7	95.2	96.4	95.5	94.2	95.1	93.8	94.1	96.0	95.6	97.6	96.5
Tobacco manufactures	91.6	94.3	89.9	87.8	82.3	93.6	94.6	82.4	89.6	89.1	88.6	88.3	91.1
Textile mill products	74.8	75.4	75.3	75.5	75.2	74.6	78.2	75.4	77.6	80.1	80.1	81.8	83.1
Apparel and other textile products	83.6	84.5	85.2	84.4	83.9	83.6	90.0	85.0	85.5	87.6	87.7	88.4	89.6
Paper and allied products	92.6	91.8	92.3	91.2	91.2	90.8	91.2	90.4	92.1	93.1	94.4	94.8	96.2
Printing and publishing	105.6	105.1	105.6	105.6	105.6	105.6	107.0	105.6	106.5	108.1	107.5	108.6	109.6
Chemicals and allied products	94.4	95.0	95.5	93.9	93.5	93.9	93.8	93.6	93.7	94.7	94.7	95.7	96.3
Petroleum and coal products	91.9	93.1	95.7	93.4	93.9	94.2	95.4	96.2	97.6	94.6	93.3	93.5	93.1
Rubber and misc. plastics products	95.2	94.0	92.9	89.8	85.1	90.0	91.1	90.9	94.9	98.5	100.2	101.0	104.3
Leather and leather products	81.5	82.2	81.0	78.4	79.9	78.1	81.0	76.4	79.9	81.7	91.2	81.7	79.6
SERVICE-PRODUCING	112.1	111.9	112.2	111.5	111.3	111.5	112.0	110.5	111.6	111.9	113.0	113.3	113.4
TRANSPORTATION AND PUBLIC UTILITIES	102.2	102.1	101.2	100.6	100.7	100.5	99.0	98.6	99.1	99.6	99.9	99.9	99.7
WHOLESALE AND RETAIL TRADE	105.5	105.2	105.1	104.3	103.5	104.0	104.3	102.1	103.9	103.6	104.7	105.3	105.1
WHOLESALE TRADE	109.4	108.8	108.4	107.7	107.2	106.7	106.8	105.5	106.1	106.6	107.3	108.0	107.8
RETAIL TRADE	104.0	103.8	103.8	103.0	102.1	103.0	103.4	100.8	103.0	102.4	103.7	104.3	104.1
FINANCE, INSURANCE, AND REAL ESTATE	117.0	116.8	117.0	116.7	116.8	117.2	117.8	116.4	116.4	117.8	119.1	118.9	118.8
SERVICES	122.1	122.1	123.3	122.5	122.8	122.9	124.1	122.5	123.9	124.7	126.1	126.1	126.8

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

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	1982						1983						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^p	July ^p
Hourly Earnings Index² (1967=100)													
TOTAL PRIVATE (In current dollars)	148.8	149.6	150.0	150.7	151.1	151.9	152.7	153.4	153.4	154.0	154.6	154.8	155.2
MINING ³	160.9	161.0	162.8	162.1	162.9	163.0	164.7	165.1	164.0	165.7	165.0	166.7	168.6
CONSTRUCTION	141.2	141.4	141.6	142.9	141.9	144.0	144.0	145.7	145.5	145.9	144.5	144.7	144.2
MANUFACTURING	153.3	154.1	154.6	154.7	155.3	155.8	156.5	157.3	157.1	157.0	157.7	157.8	158.1
TRANSPORTATION AND PUBLIC UTILITIES	148.8	149.9	150.1	151.1	152.2	153.1	154.4	155.2	155.9	155.9	156.6	156.8	157.9
WHOLESALE AND RETAIL TRADE	145.2	145.8	146.2	147.1	147.5	148.1	148.9	149.3	149.6	150.5	151.2	151.5	151.8
FINANCE, INSURANCE, AND REAL ESTATE ³	148.2	150.1	150.6	152.0	152.7	153.0	156.7	157.4	156.7	157.4	159.0	158.0	158.7
SERVICES	148.5	149.4	149.8	150.6	150.7	152.0	152.2	152.4	152.6	154.0	154.9	155.4	155.7
TOTAL PRIVATE (In 1977 dollars) ⁴	92.8	93.0	93.1	93.1	93.4	94.1	94.7	95.3	95.0	94.8	94.7	94.7	-
Average hourly earnings													
TOTAL PRIVATE	\$7.70	\$7.73	\$7.73	\$7.76	\$7.78	\$7.82	\$7.88	\$7.91	\$7.91	\$7.95	\$7.97	\$8.00	\$8.02
MINING	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
CONSTRUCTION	11.63	11.65	11.66	11.77	11.71	11.88	11.86	12.00	12.00	12.02	11.86	11.86	11.83
MANUFACTURING	8.54	8.56	8.57	8.58	8.61	8.63	8.68	8.76	8.75	8.78	8.79	8.82	8.85
TRANSPORTATION AND PUBLIC UTILITIES	10.31	10.38	10.39	10.45	10.51	10.58	10.66	10.70	10.77	10.76	10.82	10.83	10.87 ^a
WHOLESALE AND RETAIL TRADE	6.23	6.24	6.24	6.29	6.32	6.33	6.35	6.39	6.40	6.43	6.45	6.48	6.49
FINANCE, INSURANCE, AND REAL ESTATE	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
SERVICES	6.95	6.98	7.00	7.03	7.04	7.09	7.11	7.14	7.15	7.19	7.24	7.25	7.26
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	268.73	269.00	269.00	269.27	269.97	272.14	276.59	272.90	275.27	277.46	279.75	280.80	281.50
1977 dollars ⁵	167.54	167.18	166.98	166.32	166.96	168.61	171.48	169.61	170.45	170.85	171.42	171.85	-

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-8.

p=preliminary.

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

Industry division	Millions of hours (Annual rate) ²			Percent change		
	May R1983	June R1983	July P1983	July 1982 to July 1983	May 1983 to June 1983	June 1983 to July 1983
TOTAL	166,943	167,403	168,449	1.4	0.3	0.6
PRIVATE SECTOR	135,953	136,794	137,542	1.4	0.6	0.5
MINING	2,207	2,228	2,199	-11.8	1.0	-1.3
CONSTRUCTION	7,468	7,641	7,744	2.3	2.3	1.3
MANUFACTURING	38,279	38,661	39,111	1.8	1.0	1.2
DURABLE GOODS	22,518	22,755	23,122	1.1	1.1	1.6
NONDURABLE GOODS	15,761	15,905	15,990	2.9	0.9	0.5
TRANSPORTATION AND PUBLIC UTILITIES	10,112	10,133	10,114	-2.1	0.2	-0.2
WHOLESALE AND RETAIL TRADE	34,070	34,241	34,298	0.1	0.5	0.2
FINANCE, INSURANCE, AND REAL ESTATE	10,293	10,278	10,306	2.4	-0.1	0.3
SERVICES	33,525	33,612	33,770	4.0	0.3	0.5
GOVERNMENT	30,990	30,610	30,908	1.4	-1.2	1.0

¹ Data refer to hours of all employees—production workers, nonsupervisory workers and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods*, BLS Bulletin 2134-1—Chapter 13, Productivity Measures: Business Economy and Major Sectors.

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

**PRODUCTIVITY
SEASONALLY ADJUSTED**

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

(1977 = 100)

Item	Annual average		Quarterly indexes										
			1980		1981				1982				1983
	1981	1982	1980 IV	1981 I	1981 II	1981 III	1981 IV	1982 I	1982 II	1982 III	1982 IV	1983 I	1983 II
BUSINESS SECTOR:													
Output per hour of all persons	r101.3	r101.2	r99.1	r100.5	r101.1	r102.3	r101.2	r101.1	r100.7	r101.1	r101.9	r102.5	p103.5
Output	r109.8	r106.7	107.0	r109.2	r109.8	r111.2	r108.9	r107.2	r106.9	r106.6	r106.0	r107.1	p109.9
Hours	r108.4	105.4	r108.0	r108.6	r108.6	r108.7	r107.7	r106.0	r106.2	r105.4	r104.0	r104.5	p106.2
Compensation per hour	r143.9	r155.1	r136.0	r139.7	r142.2	r145.5	r148.2	r151.6	r153.9	r156.5	r158.7	r160.7	p162.2
Real compensation per hour	r95.9	r97.4	r96.1	r96.3	r96.1	r95.6	r95.6	r97.1	r97.4	r97.1	r98.0	r99.4	p99.3
Unit labor costs	r142.1	r153.3	r137.2	139.0	r140.7	r142.3	r146.4	r149.9	152.9	r154.7	r155.6	r156.9	p156.8
Unit nonlabor payments	r136.2	r136.9	r124.2	r131.2	133.4	r139.9	r140.2	r137.0	137.0	r136.3	r137.4	r140.8	p145.9
Implicit price deflator	r140.1	r147.7	132.8	r136.3	r138.2	r141.5	r144.3	r145.5	147.5	r148.5	r149.4	r151.5	p153.1
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	r100.3	r100.2	r98.8	r100.1	100.1	r101.1	r99.9	r100.0	r99.9	100.4	r100.8	r101.7	p102.8
Output	r109.3	r106.3	r107.1	r109.2	r109.4	r110.5	r108.2	r106.5	r106.7	r106.5	r105.4	r106.7	p109.5
Hours	r109.0	r106.0	r108.5	r109.1	r109.2	r109.4	r108.2	r106.5	r106.8	r106.0	r104.6	r104.9	p106.5
Compensation per hour	r143.5	r154.7	r135.5	r139.3	r141.8	145.1	147.7	r151.3	r153.5	r156.1	r158.3	r161.0	p162.8
Real compensation per hour	r95.6	r97.1	r95.8	r96.0	r95.8	95.3	r95.4	r96.9	r97.1	r96.9	r97.8	r99.5	p99.6
Unit labor costs	r143.0	r154.4	r137.2	r139.2	r141.6	r143.5	r147.8	r151.3	r153.6	r155.4	r157.1	r158.3	p158.4
Unit nonlabor payments	r135.0	r137.0	r123.2	r130.3	r132.2	r138.3	r139.5	r136.4	r137.7	r136.5	r137.2	r140.7	p145.7
Implicit price deflator	r140.4	r148.6	r132.5	r136.2	r138.4	r141.8	r145.0	r146.4	r148.3	r149.1	r150.5	r152.4	p154.2
MANUFACTURING:													
Output per hour of all persons	r105.3	r106.5	r103.6	r105.1	r105.4	r106.1	r104.4	r105.1	r105.3	r107.8	r108.1	r110.2	p112.6
Output	r106.5	r99.1	r104.9	r106.8	r107.8	r108.1	r103.3	r100.2	r99.5	r99.5	r97.2	r100.1	p104.9
Hours	101.2	r93.0	101.3	r101.6	r102.2	r101.9	r98.9	r95.4	94.5	r92.3	r89.9	r90.9	p93.2
Compensation per hour	r145.8	r158.2	r138.3	r141.6	r144.3	r147.0	r150.5	155.1	r157.1	r159.6	r161.4	r165.5	p166.3
Real compensation per hour	r97.2	r99.3	r97.8	r97.6	r97.5	r96.5	r97.1	99.4	r99.4	r99.1	r99.7	r102.3	p101.8
Unit labor costs	r138.5	r148.5	r133.5	r134.8	r136.9	r138.5	r144.1	r147.6	r149.1	r148.1	r149.3	r150.2	p147.8
DURABLE GOODS													
Output per hour of all persons	r104.5	r105.4	r102.5	r104.3	r104.8	r105.2	r103.7	r103.7	r104.2	r106.8	r107.2	r109.4	p112.2
Output	r107.0	r97.3	r105.1	r107.3	r108.8	r108.9	r103.3	r99.3	r98.3	r97.6	r94.0	r97.4	p102.9
Hours	r102.4	r92.3	102.6	r102.9	r103.8	r103.4	r99.6	r95.7	r94.3	r91.4	r87.7	r89.0	p91.7
Compensation per hour	r145.9	r157.9	r138.5	r141.7	r144.4	r146.9	r150.6	r154.7	r156.7	r159.5	r161.0	165.4	p165.9
Real compensation per hour	r97.2	r99.1	r97.9	r97.7	r97.5	r96.5	r97.2	r99.1	r99.1	r99.0	r99.5	102.3	p101.6
Unit labor costs	r139.6	r149.8	r135.2	r135.8	r137.8	r139.6	r145.3	r149.1	r150.4	r149.4	r150.3	r151.1	p148.0
NONDURABLE GOODS													
Output per hour of all persons	r106.4	r108.2	r105.5	r106.3	r106.5	r107.4	r105.4	r107.2	r107.0	r109.2	r109.4	r111.3	p113.1
Output	105.6	r101.8	r104.7	r106.0	r106.3	r107.0	r103.2	r101.7	r101.3	r102.3	r101.9	r104.1	p107.8
Hours	99.3	r94.1	r99.2	r99.8	r99.8	r99.6	97.9	r94.8	r94.7	r93.7	93.2	r93.6	p95.3
Compensation per hour	r145.2	r159.2	r137.5	r141.0	r143.7	r146.4	149.9	r155.9	r157.8	r160.2	r163.0	r166.6	p167.7
Real compensation per hour	r96.8	r99.9	r97.2	r97.2	r97.1	r96.2	96.7	r99.9	r99.8	r99.4	r100.7	r103.0	p102.6
Unit labor costs	r136.5	r147.1	r130.4	r132.7	r135.0	r136.3	r142.1	r145.4	r147.5	r146.7	r149.0	r149.8	p148.2
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	r102.3	r102.8	r100.4	r101.8	r102.1	r103.0	r102.2	r102.4	r102.3	r103.2	r103.4	r104.3	N.A.
Output	r111.5	r107.8	r108.8	111.0	r111.7	r112.9	r110.4	r108.6	r108.1	108.0	r106.4	r107.6	N.A.
Hours	r109.0	r104.8	r108.3	r109.1	r109.3	r109.6	r108.1	106.0	r105.7	r104.6	r102.9	r103.2	N.A.
Compensation per hour	143.6	r154.8	r135.8	r139.5	142.0	r145.0	147.8	r151.7	r153.7	r156.1	r158.1	r160.4	N.A.
Real compensation per hour	95.7	r97.2	r96.0	r96.2	95.9	95.2	95.4	r97.2	r97.2	r96.9	r97.7	r99.2	N.A.
Total unit costs	r142.7	r153.5	r135.9	r138.4	r141.1	r143.6	r147.7	r150.9	r153.1	r153.8	r156.3	r156.7	N.A.
Unit labor costs	r140.3	r150.6	r135.3	r137.0	r139.0	r140.7	r144.6	r148.1	r150.2	r151.1	r152.9	r153.9	N.A.
Unit nonlabor costs	r149.4	r161.8	r137.9	r142.3	r147.0	r151.9	r156.6	r158.9	r161.2	r161.3	r165.9	r164.7	N.A.
Unit profits	r104.1	r88.9	r90.9	r103.0	r100.3	r108.6	r104.2	r90.8	r90.3	r91.2	r83.0	r96.1	N.A.
Implicit price deflator	r138.3	r146.1	r130.8	r134.3	r136.4	r139.6	r142.7	r144.0	r145.9	r146.6	r147.9	r149.7	N.A.

p-preliminary.
r-revised.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

C-11. Percent changes from preceding quarter and year in productivity, hourly compensation, unit costs, and prices, business sector, seasonally adjusted at annual rate

Item	Quarterly percent change						Annual percent change					
	1981 IV	1982 I	1982 II	1982 III	1982 IV	1983 I	1981 I	1981 II	1981 III	1981 IV	1982 I	1982 II
	to 1982 I	to 1982 II	to 1982 III	to 1982 IV	to 1983 I	to 1983 II	to 1982 I	to 1982 II	to 1982 III	to 1982 IV	to 1983 I	to 1983 II
BUSINESS SECTOR:												
Output per hour of all persons	r-0.4	r-1.6	r1.7	r3.3	r2.0	p4.1	r0.6	r-0.4	r-1.1	r0.7	r1.3	p2.8
Output	r-6.3	r-1.0	r-1.1	r-2.3	r4.2	p10.9	r-1.8	r-2.6	r-4.1	r-2.7	r-0.1	p2.8
Hours	r9.4	r0.6	r-2.7	r-5.4	r2.1	p6.5	r-2.4	r-2.2	r-3.0	r-3.4	r-1.4	p0.0
Compensation per hour	r9.4	r6.4	r6.7	r5.7	r5.4	p3.7	r8.5	r8.2	r7.5	r7.1	r6.1	p5.4
Real compensation per hour	r6.3	r1.1	r-1.0	r3.7	r5.8	p-0.4	r0.8	r1.3	r1.6	r2.5	r2.4	p2.0
Unit labor costs	r9.8	r8.1	r5.0	r2.3	r3.3	p-0.4	r7.9	r8.7	r8.7	r6.3	r4.7	p2.5
Unit nonlabor payments	r-8.8	r-0.1	r-2.0	r3.2	r10.5	p15.2	r4.4	2.7	r-2.6	r-2.0	r2.8	p6.5
Implicit price deflator	r3.4	r5.5	r2.7	r2.6	r5.5	p4.4	r6.7	r6.7	r4.9	r3.5	r4.1	p3.8
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	r0.1	r-0.4	r2.3	r1.3	r3.7	p4.3	r-0.1	r-0.3	r-0.6	r0.8	r1.7	p2.9
Output	r-6.2	r0.8	r-0.6	r-4.1	r4.9	p10.9	r-2.5	r-2.5	r-3.6	r-2.6	r0.2	p2.6
Hours	r-6.2	r1.2	r-2.9	r-5.3	r1.2	p6.3	r-2.4	r-2.2	r-3.0	r-3.4	r-1.5	p-0.3
Compensation per hour	r10.0	r5.8	r7.2	r5.8	r6.8	p4.6	r8.6	r8.2	r7.6	r7.2	r6.4	p6.1
Real compensation per hour	r6.8	r0.5	r-0.6	r3.7	r7.2	p0.4	r0.9	r1.3	r1.7	r2.6	r2.7	p2.6
Unit labor costs	r9.9	r6.2	r4.7	r4.4	r3.0	p0.2	r8.7	r8.5	r8.3	r6.3	r4.6	p3.1
Unit nonlabor payments	r-8.5	r3.7	r-3.4	r2.0	r10.6	p15.1	r4.7	r4.2	r-1.3	r-1.6	r3.1	p5.8
Implicit price deflator	r3.7	r5.4	r2.2	r3.7	r5.3	p4.7	7.4	r7.1	r5.2	r3.7	r4.1	p3.9
MANUFACTURING:												
Output per hour of all persons	r2.8	r0.8	r9.6	r1.2	r8.0	p8.9	r0.0	r-0.1	r1.6	r3.5	r4.8	p6.9
Output	r-11.2	r-2.9	r0.0	r-9.0	r12.7	p20.3	r-6.1	r-7.7	r-8.0	r-5.9	r-0.1	p5.4
Hours	r-13.7	r-3.7	r-8.7	r-10.0	r4.3	p10.5	r-6.2	-7.6	r-9.4	r-9.1	r-4.7	p-1.4
Compensation per hour	r13.1	r5.1	r6.5	4.5	r10.7	p1.9	r9.6	r8.8	r8.6	r7.3	r6.7	p5.9
Real compensation per hour	r9.8	r-0.2	r-1.2	r2.5	r11.1	p-2.2	r1.8	r1.9	r2.6	r2.7	r3.0	p2.4
Unit labor costs	r9.9	r4.3	r-2.8	r3.3	r2.5	p-6.4	r9.5	r8.9	r6.9	r3.6	r1.8	p-0.9
DURABLE GOODS												
Output per hour of all persons	r0.1	r1.8	r10.4	r1.4	r8.7	p10.3	r-0.5	r-0.5	r1.5	r3.4	r5.5	p7.6
Output	r-14.6	r-4.0	r-2.5	r-14.2	r15.5	p24.3	r-7.5	r-9.7	r-10.3	r-9.0	r-1.9	p4.7
Hours	r-14.7	r-5.7	r-11.7	r-15.4	r6.3	p12.6	r-7.0	r-9.2	-11.6	-12.0	r-7.0	p-2.8
Compensation per hour	r11.1	r5.4	r7.4	r3.8	r11.3	p1.3	r9.2	r8.5	r8.6	r6.9	r7.0	p5.9
Real compensation per hour	r7.9	r0.1	r-0.4	r1.8	r11.8	p-2.8	r1.4	r1.6	r2.6	r2.3	r3.2	p2.5
Unit labor costs	r11.0	r3.5	r-2.7	r2.4	r2.4	p-8.2	r9.8	r9.1	r7.0	r3.4	r1.4	p-1.6
NONDURABLE GOODS												
Output per hour of all persons	r6.9	r-0.7	r8.4	r0.7	r7.1	p7.0	r0.9	r0.5	r1.6	r3.7	r3.8	p5.7
Output	r-6.0	r-1.4	r3.8	r-1.2	r8.8	p15.0	r-4.1	r-4.7	r-4.4	r-1.3	r2.4	p6.4
Hours	r-12.0	r-0.6	-4.2	r-1.9	r1.7	p7.5	r-5.0	r-5.2	r-6.0	r-4.8	r-1.3	p0.7
Compensation per hour	r17.0	r5.2	r6.0	r7.3	r9.2	p2.5	r10.5	r9.9	r9.4	r8.8	r6.9	p6.2
Real compensation per hour	r13.6	r-0.1	r-1.7	r5.2	r9.6	p-1.6	r2.7	r2.8	r3.4	r4.1	r3.2	p2.8
Unit labor costs	r9.4	r6.0	r-2.2	6.6	r2.0	p-4.1	r9.6	r9.3	r7.6	r4.9	r3.0	p0.5
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	r0.9	r-0.5	r3.8	r0.6	r3.4	N.A.	r0.6	r0.1	r0.2	r1.2	r1.8	N.A.
Output	r-6.5	r-1.8	r-0.5	r-6.0	r4.6	N.A.	r-2.2	r-3.2	r-4.3	r-3.7	r-1.0	N.A.
Hours	r-7.3	r-1.2	r-4.1	r-6.5	r1.2	N.A.	r-2.8	r-3.3	r-4.5	-4.8	r-2.7	N.A.
Compensation per hour	r10.9	r5.4	r6.4	5.4	r6.0	N.A.	r8.7	r8.2	r7.6	r7.0	r5.8	N.A.
Real compensation per hour	r7.7	r0.1	r-1.3	r3.4	r6.4	N.A.	r1.0	r1.3	r1.7	r2.4	r2.1	N.A.
Total unit costs	r8.8	r6.0	r1.8	r6.7	r1.0	N.A.	r9.0	8.5	r7.1	r5.8	r3.8	N.A.
Unit labor costs	r9.9	r6.0	r2.4	r4.8	r2.5	N.A.	r8.1	r8.1	r7.4	r5.7	r3.9	N.A.
Unit nonlabor costs	r6.1	r6.0	r0.1	r11.9	r2.8	N.A.	r11.7	r9.7	r6.2	r6.0	r3.7	N.A.
Unit profits	r-42.2	r-2.1	r3.8	r-31.4	r79.9	N.A.	r-11.8	r-9.9	r-16.1	r-20.3	r5.8	N.A.
Implicit price deflator	r3.6	r5.4	r1.9	r3.6	r5.1	N.A.	r7.2	r7.0	r5.0	r3.6	r4.0	N.A.

GPO 873-878

p=preliminary.
r=revised.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P
ALABAMA	\$289.08	\$306.99	\$310.30	39.6	40.5	41.1	\$7.30	\$7.58	\$7.55
Birmingham	321.55	309.28	319.58	39.6	39.1	40.3	8.12	7.91	7.93
Mobile	360.60	399.10	399.99	38.9	40.6	39.8	9.27	9.83	10.05
ALASKA	450.45	468.05	(*)	39.0	37.0	(*)	11.55	12.65	(*)
ARIZONA	344.18	359.79	371.59	39.2	40.2	40.7	8.78	8.95	9.13
ARKANSAS	261.62	283.50	286.03	39.4	40.5	40.4	6.64	7.00	7.08
Fayetteville—Springdale	233.70	254.56	254.23	38.5	39.9	39.6	6.07	6.38	6.42
Fort Smith	250.55	303.16	286.55	36.9	41.7	39.2	6.79	7.27	7.31
Little Rock—North Little Rock	310.75	339.06	336.61	40.2	40.9	41.0	7.73	8.29	8.21
Pine Bluff	355.66	366.45	376.16	41.5	41.5	42.6	8.57	8.83	8.83
CALIFORNIA	362.60	376.36	380.40	39.2	39.7	40.0	9.25	9.48	9.51
COLORADO	337.04	358.78	366.11	39.1	39.6	40.1	8.62	9.06	9.13
Denver—Boulder	343.69	370.66	378.14	39.1	39.6	40.1	8.79	9.36	9.43
CONNECTICUT	330.04	358.39	359.26	40.2	41.1	41.2	8.21	8.72	8.72
Bridgeport	346.92	378.72	395.64	41.3	41.3	42.0	8.40	9.17	9.42
Hartford	356.47	382.12	381.19	40.6	41.0	40.9	8.78	9.32	9.32
New Britain	338.15	369.15	370.23	40.4	41.2	41.0	8.37	8.96	9.03
New Haven—West Haven	311.08	319.68	336.69	38.5	37.0	38.7	8.08	8.64	8.70
Stamford	301.78	331.96	333.06	39.5	39.1	39.0	7.64	8.49	8.54
Waterbury	277.89	315.88	316.41	40.1	42.4	42.7	6.93	7.45	7.41
DELAWARE	341.91	369.87	380.69	39.3	40.6	41.2	8.70	9.11	9.24
Wilmington	401.70	427.28	440.23	39.0	40.5	40.8	10.30	10.55	10.79
DISTRICT OF COLUMBIA:									
Washington SMSA	360.40	372.33	367.77	38.3	39.4	39.0	9.41	9.45	9.43
FLORIDA	274.62	294.11	299.47	39.4	40.4	40.8	6.97	7.28	7.34
Fort Lauderdale—Hollywood	266.74	284.93	288.81	40.6	42.4	43.3	6.57	6.72	6.67
Jacksonville	326.23	322.00	326.30	38.2	40.1	41.2	8.54	8.03	7.92
Lakeland—Winter Haven	303.64	299.15	302.13	41.2	40.7	40.5	7.37	7.35	7.46
Miami	227.56	239.55	232.33	39.1	39.4	37.9	5.82	6.08	6.13
Orlando	296.94	311.40	310.50	40.4	41.3	41.4	7.35	7.54	7.50
Pensacola	333.34	368.43	381.91	40.9	42.3	43.3	8.15	8.71	8.82
Tampa—St. Petersburg	264.80	300.62	306.59	38.6	40.9	41.6	6.86	7.35	7.37
West Palm Beach—Boca Raton	290.28	309.50	305.83	41.0	40.3	40.4	7.08	7.68	7.57
GEORGIA	264.77	285.19	293.41	39.4	40.8	41.5	6.72	6.99	7.07
Atlanta	323.14	340.09	348.39	39.6	40.2	40.7	8.16	8.46	8.56
Savannah	381.06	398.14	419.06	43.6	43.8	45.6	8.74	9.09	9.19
HAWAII	288.10	320.49	304.06	36.7	38.8	36.9	7.85	8.26	8.24
Honolulu	283.50	317.24	300.35	36.3	38.5	36.1	7.81	8.24	8.32
IDAHO	322.06	337.93	341.64	37.8	37.8	38.3	8.52	8.94	8.92
Boise City	293.66	312.32	314.81	37.6	36.7	37.3	7.81	8.51	8.44
ILLINOIS	363.92	388.17	395.44	39.3	40.1	40.6	9.26	9.68	9.74
Bloomington—Normal	321.35	366.08	375.20	36.6	41.6	42.3	8.78	8.80	8.87
Champaign—Urbana—Rantoul	340.10	324.36	333.77	39.5	36.0	37.8	8.61	9.01	8.83
Chicago SMSA	343.10	380.65	384.87	38.9	39.9	40.3	8.82	9.54	9.55
Davenport—Rock Island—Moline	448.57	477.50	485.93	37.6	39.3	39.7	11.93	12.15	12.24
Decatur	451.49	486.82	489.23	39.5	40.2	40.2	11.43	12.11	12.17
Kankakee	325.71	316.09	332.33	38.5	38.5	39.8	8.46	8.21	8.35
Peoria	459.16	472.29	518.98	38.2	39.0	42.4	12.02	12.11	12.24
Rockford	378.58	386.75	395.50	39.6	41.1	41.5	9.56	9.41	9.53
Springfield	440.10	454.95	460.90	40.6	41.7	41.9	10.84	10.91	11.00
INDIANA	388.66	405.59	408.82	39.7	40.6	40.8	9.79	9.99	10.02
Gary—Hammond—East Chicago	512.08	499.41	(*)	39.3	39.2	(*)	13.03	12.74	(*)
Indianapolis	389.77	403.16	(*)	40.1	40.6	(*)	9.72	9.93	(*)
IOWA	386.39	400.80	403.13	38.6	40.0	39.6	10.01	10.02	10.18
Cedar Rapids	398.77	393.43	396.42	39.6	39.7	38.6	10.07	9.91	10.27
Des Moines	410.51	435.51	422.25	37.8	39.2	37.5	10.86	11.11	11.26

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 area—Continued

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P
IOWA—Continued									
Dubuque	\$415.58	\$412.65	\$421.60	36.2	39.3	40.0	\$11.48	\$10.50	\$10.54
Sioux City	347.39	361.68	370.77	40.3	39.1	41.8	8.62	9.25	8.87
Waterloo—Cedar Falls	529.80	512.27	534.12	38.7	40.4	39.8	13.69	12.68	13.42
KANSAS	342.13	356.28	358.29	39.1	38.6	39.2	8.75	9.23	9.14
Topeka	319.18	339.82	351.51	37.2	37.8	38.5	8.58	8.99	9.13
Wichita	365.00	402.16	396.79	38.1	39.7	39.6	9.58	10.13	10.02
KENTUCKY	325.65	344.92	337.90	39.0	39.6	39.2	8.35	8.71	8.62
Lexington—Fayette	367.94	367.62	359.59	40.3	39.7	38.5	9.13	9.26	9.34
Louisville	377.06	386.54	405.78	39.4	38.5	39.9	9.57	10.04	10.17
LOUISIANA	388.54	391.42	395.20	41.6	39.9	40.7	9.34	9.81	9.71
Baton Rouge	473.88	460.60	460.69	41.1	39.3	40.2	11.53	11.72	11.46
New Orleans	360.75	336.97	345.98	39.0	37.4	38.7	9.25	9.01	8.94
Shreveport	340.31	369.57	370.40	41.2	39.4	39.7	8.26	9.38	9.33
MAINE	284.31	299.55	297.75	40.1	40.1	39.7	7.09	7.47	7.50
Lewiston—Auburn	232.16	245.83	244.21	38.5	40.3	40.1	6.03	6.10	6.09
Portland	274.77	286.90	284.64	38.7	37.7	37.7	7.10	7.61	7.55
MARYLAND	341.88	355.81	356.40	39.8	39.8	40.0	8.59	8.94	8.91
Baltimore	368.02	379.89	380.02	40.8	40.5	40.6	9.02	9.38	9.36
MASSACHUSETTS	296.60	317.59	321.60	39.6	40.1	40.2	7.49	7.92	8.00
Boston	319.60	341.68	343.41	39.9	39.5	39.7	8.01	8.65	8.65
Brockton	232.73	245.53	251.79	37.0	37.6	38.5	6.29	6.53	6.54
Fall River	220.58	227.92	239.73	37.9	37.0	37.4	5.82	6.16	6.41
Lawrence—Haverhill	299.34	315.22	311.26	39.7	39.8	39.6	7.54	7.92	7.86
Lowell	268.37	284.40	288.73	39.7	38.8	38.6	6.76	7.33	7.48
New Bedford	265.78	270.02	279.96	39.2	38.3	39.1	6.78	7.05	7.16
Springfield—Chilcopee—Holyoke	303.96	325.61	330.08	40.8	40.6	40.7	7.45	8.02	8.11
Worcester	303.03	321.79	334.43	38.9	39.1	40.1	7.79	8.23	8.34
MICHIGAN	472.97	485.46	494.02	41.6	42.1	42.4	11.37	11.53	11.64
Ann Arbor	503.94	499.01	527.67	42.5	42.1	43.4	11.84	11.85	12.17
Battle Creek	463.80	476.08	496.05	39.2	40.0	40.4	11.84	11.91	12.27
Bay City	404.36	417.89	439.54	41.0	41.2	43.7	9.86	10.15	10.07
Detroit	514.27	519.93	523.37	42.9	43.1	42.8	12.00	12.06	12.22
Flint	578.35	568.65	580.69	42.5	42.8	43.9	13.59	13.27	13.22
Grand Rapids	373.15	395.45	410.50	39.8	40.5	41.1	9.38	9.77	9.98
Jackson	406.60	391.17	384.32	40.5	40.5	40.2	10.03	9.66	9.55
Kalamazoo—Portage	399.29	447.38	454.38	39.4	41.4	41.9	10.14	10.80	10.85
Lansing—East Lansing	496.51	544.22	586.06	40.6	42.3	44.2	12.24	12.86	13.26
Muskegon—Norton Shores—Muskegon Heights	369.34	398.44	408.31	38.4	38.8	39.2	9.63	10.26	10.41
Saginaw	545.06	564.97	592.98	41.5	42.3	43.7	13.12	13.34	13.56
MINNESOTA	357.77	374.36	377.06	39.1	39.2	39.4	9.15	9.55	9.57
Duluth—Superior	312.93	369.68	384.35	36.6	37.8	39.1	8.55	9.78	9.83
Minneapolis—St. Paul	375.14	393.74	399.74	39.2	39.1	39.5	9.57	10.07	10.12
St. Cloud	275.87	301.95	294.91	34.7	36.6	34.9	7.95	8.25	8.45
MISSISSIPPI	252.01	263.87	270.25	39.5	39.8	40.7	6.38	6.63	6.64
Jackson	290.19	305.52	317.18	40.7	40.2	41.3	7.13	7.60	7.68
MISSOURI	332.99	353.82	357.06	39.5	39.8	40.3	8.43	8.89	8.86
Kansas City	375.18	405.49	406.14	39.0	41.0	40.9	9.62	9.89	9.93
St. Joseph	301.02	318.24	334.97	38.2	39.0	40.8	7.88	8.16	8.21
St. Louis	380.49	406.82	409.86	39.8	40.2	40.5	9.56	10.12	10.12
Springfield	302.09	323.59	325.62	41.1	39.9	40.2	7.35	8.11	8.10
MONTANA	403.34	414.34	419.93	40.7	39.2	40.3	9.91	10.57	10.42
NEBRASKA	330.66	346.26	351.60	39.6	39.8	40.6	8.35	8.70	8.66
Lincoln	315.91	328.25	329.62	38.2	37.6	37.8	8.27	8.73	8.72
Omaha	332.44	358.81	355.50	38.3	39.3	39.5	8.68	9.13	9.00
NEVADA	325.23	346.09	341.33	37.0	38.2	37.8	8.79	9.06	9.03
Las Vegas	409.37	411.65	(*)	39.4	38.4	(*)	10.39	10.72	(*)

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		
	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P
NEW HAMPSHIRE	\$272.74	\$295.32	\$295.47	39.7	40.4	40.2	\$6.87	\$7.31	\$7.35
Manchester	254.80	273.82	273.74	39.2	39.8	39.5	6.50	6.88	6.93
Nashua	311.66	348.43	348.02	39.5	40.8	40.8	7.89	8.54	8.53
NEW JERSEY	348.69	370.58	372.30	40.2	40.5	40.6	8.67	9.15	9.17
Atlantic City	261.77	302.58	(*)	37.7	41.0	(*)	6.95	7.38	(*)
Camden ²	369.64	391.95	(*)	40.9	40.2	(*)	9.03	9.75	(*)
Hackensack ³	302.12	322.40	(*)	39.7	40.0	(*)	7.61	8.06	(*)
Jersey City ³	326.10	341.34	(*)	40.1	40.3	(*)	8.14	8.47	(*)
New Brunswick—Perth Amboy—Sayreville ³	392.81	416.96	(*)	41.0	40.6	(*)	9.58	10.27	(*)
Newark ³	358.84	383.52	(*)	41.0	40.8	(*)	8.75	9.40	(*)
Peterson—Clifton—Passaic ³	327.20	363.74	(*)	40.4	41.1	(*)	8.10	8.85	(*)
Trenton	353.85	368.65	(*)	39.4	40.6	(*)	8.99	9.08	(*)
NEW MEXICO	284.25	306.82	302.20	39.7	40.8	39.4	7.16	7.52	7.67
Albuquerque	302.18	306.39	297.60	39.5	41.8	40.0	7.65	7.33	7.44
NEW YORK	325.20	342.91	345.84	38.9	39.1	39.3	8.36	8.77	8.80
Albany—Schenectady—Troy	337.59	358.09	362.79	39.3	39.7	40.4	8.59	9.02	8.98
Binghamton	293.13	317.93	317.16	40.6	40.5	40.3	7.22	7.85	7.87
Buffalo	441.45	451.25	464.51	40.5	40.8	41.4	10.90	11.06	11.22
Elmira	341.54	351.12	350.49	39.9	39.9	38.9	8.56	8.80	9.01
Monroe County ⁴	449.60	474.37	477.17	41.4	41.0	41.1	10.86	11.57	11.61
Nassau—Suffolk ⁵	318.78	345.26	351.88	39.6	40.1	40.4	8.05	8.61	8.71
New York—Northeastern New Jersey	310.40	334.62	(*)	38.8	39.0	(*)	8.00	8.58	(*)
New York and Nassau—Suffolk ⁵	284.24	305.37	309.32	37.4	37.7	38.0	7.60	8.10	8.14
New York SMSA ⁶	274.16	293.78	296.54	36.8	37.0	37.3	7.45	7.94	7.95
New York City ⁶	269.37	289.25	291.19	36.5	36.8	37.0	7.38	7.86	7.87
Poughkeepsie	321.88	365.47	366.80	40.9	42.3	42.8	7.87	8.64	8.57
Rochester	425.18	448.39	448.39	41.2	40.8	40.8	10.32	10.99	10.99
Rockland County ⁷	322.76	345.07	350.80	38.7	39.8	40.0	8.34	8.67	8.77
Syracuse	352.84	380.15	381.05	39.6	40.1	39.9	8.91	9.48	9.55
Utica—Rome	301.85	322.76	318.37	39.1	39.7	39.5	7.72	8.13	8.06
Westchester County ⁸	308.89	322.79	326.17	39.5	38.2	38.6	7.82	8.45	8.45
NORTH CAROLINA	240.16	265.20	268.92	38.0	40.0	40.5	6.32	6.63	6.64
Asheville	237.29	259.75	263.16	38.9	39.9	40.3	6.10	6.51	6.53
Charlotte—Gastonia	247.50	276.14	283.08	39.1	41.4	42.0	6.33	6.67	6.74
Greensboro—Winston-Salem—High Point	261.93	282.69	287.89	37.1	39.1	39.6	7.06	7.23	7.27
Raleigh—Durham	280.01	314.00	319.09	38.2	40.0	40.7	7.33	7.85	7.84
NORTH DAKOTA	270.41	298.27	287.58	36.2	37.9	37.3	7.47	7.87	7.71
Fargo—Moorhead	305.28	303.11	295.20	38.4	37.1	36.4	7.95	8.17	8.11
OHIO	413.92	431.96	439.71	40.7	41.1	41.6	10.17	10.51	10.57
Akron	407.12	440.91	437.99	41.5	42.6	42.4	9.81	10.35	10.33
Canton	401.80	409.62	414.85	39.2	38.9	39.1	10.25	10.53	10.61
Cincinnati	395.24	412.08	419.80	41.0	40.8	41.4	9.64	10.10	10.14
Cleveland	420.25	423.05	432.41	41.0	40.6	41.3	10.25	10.42	10.47
Columbus	373.33	398.97	407.59	40.1	40.3	40.8	9.31	9.90	9.99
Dayton	425.60	430.32	442.46	41.2	41.1	41.9	10.33	10.47	10.56
Toledo	458.96	482.08	476.85	41.8	42.7	42.5	10.98	11.29	11.22
Youngstown—Warren	469.57	527.88	513.34	40.1	42.4	41.6	11.71	12.45	12.34
OKLAHOMA	351.08	361.89	370.98	40.4	39.9	40.5	8.69	9.07	9.16
Oklahoma City	364.21	378.40	390.83	40.2	40.0	40.5	9.06	9.46	9.65
Tulsa	371.22	387.30	397.18	39.2	39.4	40.2	9.47	9.83	9.88
OREGON	396.24	401.70	406.11	39.0	39.0	39.2	10.16	10.30	10.36
Eugene—Springfield	431.47	430.26	(*)	40.4	40.4	(*)	10.68	10.65	(*)
Medford	364.95	382.64	376.94	39.2	39.9	38.7	9.31	9.59	9.74
Portland	392.00	399.64	(*)	39.2	38.8	(*)	10.00	10.30	(*)
Salem	360.37	369.84	336.50	35.4	37.7	37.1	10.18	9.81	9.07
PENNSYLVANIA	329.56	346.92	350.76	38.5	39.2	39.5	8.56	8.85	8.88
Allentown—Bethlehem—Easton	333.52	339.60	345.60	37.9	38.2	38.4	8.80	8.89	9.00
Alltoona	283.02	298.36	299.54	39.2	38.3	38.8	7.22	7.79	7.72
Delaware Valley ⁷	340.76	362.85	363.38	38.9	39.1	39.2	8.76	9.28	9.27
Erie	356.61	379.08	390.73	39.8	40.5	41.0	8.96	9.36	9.53
Harrisburg	323.98	332.48	337.26	38.8	39.3	39.4	8.35	8.46	8.56
Johnstown	320.47	277.09	284.17	36.5	35.8	36.2	8.78	7.74	7.85

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P
PENNSYLVANIA—Continued									
Lancaster	\$300.70	\$320.15	\$324.23	38.8	38.9	39.3	\$7.75	\$8.23	\$8.25
Northeast Pennsylvania	252.22	269.68	277.11	36.5	37.3	37.6	6.91	7.23	7.37
Philadelphia SMSA	339.50	365.34	(*)	38.8	39.2	(*)	8.75	9.32	(*)
Pittsburgh	401.06	420.90	426.66	37.8	39.3	39.8	10.61	10.71	10.72
Reading	318.16	348.00	350.47	38.8	40.0	40.1	8.20	8.70	8.74
Williamsport	310.47	311.61	303.80	39.4	39.0	38.8	7.88	7.99	7.83
York	310.78	337.02	335.38	40.1	41.0	40.9	7.75	8.22	8.20
RHODE ISLAND									
Providence—Warwick—Pawtucket	259.62	274.33	275.60	39.1	39.7	40.0	6.64	6.91	6.89
	256.50	271.95	272.28	39.1	39.7	40.1	6.56	6.85	6.79
SOUTH CAROLINA									
Charleston—North Charleston	257.13	280.30	286.18	38.9	40.1	41.0	6.61	6.99	6.98
Columbia	303.64	339.48	344.02	39.9	41.0	41.2	7.61	8.28	8.35
Greenville—Spartanburg	246.65	264.81	270.52	38.3	39.0	39.9	6.44	6.79	6.78
	250.90	268.00	278.62	38.9	40.0	41.4	6.45	6.70	6.73
SOUTH DAKOTA									
Sioux Falls	306.18	306.20	310.06	40.5	41.1	41.9	7.56	7.45	7.40
	415.94	(*)	(*)	43.6	(*)	(*)	9.54	(*)	(*)
TENNESSEE									
Chattanooga	280.67	303.69	306.27	39.2	40.6	41.0	7.16	7.48	7.47
Knoxville	277.80	298.69	307.64	39.8	41.6	42.2	6.98	7.18	7.29
Memphis	321.65	342.30	352.00	38.8	39.3	40.0	8.29	8.71	8.80
Nashville—Davidson	314.31	331.75	323.01	40.4	42.1	41.2	7.78	7.88	7.84
	309.68	343.17	341.94	39.2	41.0	41.7	7.90	8.37	8.20
TEXAS									
Dallas—Fort Worth	344.06	355.45	360.74	40.1	40.3	40.9	8.58	8.82	8.82
Houston	329.18	351.01	356.53	39.9	40.3	40.7	8.25	8.71	8.76
San Antonio	423.95	432.89	440.67	41.2	40.8	41.3	10.29	10.61	10.67
	249.31	269.62	268.62	39.2	41.1	40.7	6.36	6.56	6.60
UTAH									
Salt Lake City—Ogden	319.55	339.01	344.67	38.5	38.7	39.8	8.30	8.76	8.66
	318.45	343.26	344.92	38.6	39.5	39.6	8.25	8.69	8.71
VERMONT									
Burlington	282.85	296.32	302.48	38.8	39.3	39.8	7.29	7.54	7.60
Springfield	317.98	346.88	357.76	40.2	41.1	41.6	7.91	8.44	8.60
	308.90	310.46	314.82	39.2	39.2	39.5	7.88	7.92	7.97
VIRGINIA									
Bristol	286.16	304.55	310.27	39.2	39.5	40.4	7.30	7.71	7.68
Lynchburg	245.70	249.98	244.72	37.8	38.4	38.0	6.50	6.51	6.44
Norfolk—Virginia Beach—Portsmouth	261.06	276.70	285.87	38.0	37.8	39.0	6.87	7.32	7.33
Northern Virginia	323.89	337.22	354.78	41.9	42.1	43.8	7.73	8.01	8.10
Petersburg—Colonial Heights—Hopewell	308.11	338.92	326.43	39.3	40.3	40.4	7.84	8.41	8.08
Richmond	390.19	394.71	414.59	40.9	40.4	41.5	9.54	9.77	9.99
Roanoke	361.28	399.60	403.17	39.1	39.1	39.8	9.24	10.22	10.13
	256.19	272.57	270.54	38.7	40.5	40.5	6.62	6.73	6.68
WASHINGTON									
	440.95	443.85	(*)	39.3	38.9	(*)	11.22	11.41	(*)
WEST VIRGINIA									
Charleston	368.32	385.70	388.90	39.1	39.6	40.3	9.42	9.74	9.65
Huntington—Ashland	435.34	466.99	483.05	41.5	42.3	42.9	10.49	11.04	11.26
Parkersburg—Marletta	408.48	415.01	430.82	37.0	37.9	38.5	11.04	10.95	11.19
Wheeling	421.46	427.73	431.58	40.8	39.9	40.6	10.33	10.72	10.63
	397.56	420.29	432.78	38.9	39.8	41.1	10.22	10.56	10.53
WISCONSIN									
Appleton—Oshkosh	369.04	395.11	398.86	39.5	40.4	40.7	9.34	9.78	9.80
Eau Claire	359.54	392.18	399.40	40.3	41.9	42.9	8.93	9.36	9.31
Green Bay	357.30	374.92	382.86	40.7	41.2	40.6	8.79	9.10	9.43
Janesville—Beloit	408.43	438.68	439.53	42.3	41.7	41.9	9.65	10.52	10.49
Kenosha	394.31	422.09	447.53	39.6	40.9	41.4	9.95	10.32	10.81
La Crosse	431.43	474.76	504.56	39.1	41.5	42.4	11.04	11.44	11.90
Madison	318.51	353.51	344.18	37.6	39.9	39.2	8.47	8.86	8.78
Milwaukee	380.66	372.24	380.95	39.7	39.6	40.7	9.58	9.40	9.36
Racine	409.50	438.34	436.72	39.4	40.4	40.4	10.38	10.85	10.81
	390.89	400.23	410.87	39.1	39.2	40.4	9.99	10.21	10.17
WYOMING									
	334.84	305.95	329.08	38.8	35.7	38.0	8.63	8.57	8.66

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		
	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P	JUNE 1982	MAY 1983	JUNE 1983P
VIRGIN ISLANDS	404.89	420.73	417.36	41.4	40.3	41.2	9.78	10.44	10.13

¹ Area included in Chicago—Gary Standard Consolidated Statistical Area.
² Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.
³ Subarea of New York—Northeastern New Jersey.
⁴ Subarea of Rochester Standard Metropolitan Statistical Area.
⁵ Area included in New York and Nassau—Suffolk combined SMSA's.
⁶ Subarea of New York Standard Metropolitan Statistical Area.
⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

⁸ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.
 p = preliminary.
 * Not available.

NOTE: All State and area data have been adjusted to March 1982 benchmarks except Alaska and Wisconsin.

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	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	June 1982	May 1983	June 1983p	June 1982	May 1983	June 1983p	June 1982	May 1983	June 1983p
ALABAMA	1,730.4	1,729.4	1,724.1	250.8	225.0	218.3	14.5	13.0	12.7
Birmingham	387.9	384.9	383.2	53.2	48.4	45.9	13.7	12.6	12.0
Huntsville	151.2	154.5	155.2	19.5	14.8	14.9	12.9	9.6	9.6
Mobile	198.7	197.7	199.2	27.5	29.0	27.9	13.8	14.7	14.0
Montgomery	128.6	123.9	124.5	16.5	13.2	13.8	12.8	10.7	11.1
Tuscaloosa	55.2	55.9	54.8	7.6	7.0	6.6	13.7	12.5	12.1
ALASKA	215.0	220.2	224.6	21.2	23.7	22.2	9.9	10.8	9.9
ARIZONA	1,324.7	1,331.2	1,325.5	138.4	133.1	137.1	10.4	10.0	10.3
Phoenix	803.2	810.5	806.1	65.2	63.6	63.7	8.1	7.9	7.9
Tucson	246.3	250.3	248.4	25.4	24.5	24.0	10.3	9.8	9.7
ARKANSAS	1,024.3	1,030.1	1,016.2	94.7	93.7	92.3	9.2	9.1	9.1
Fayetteville-Springdale	81.5	82.5	81.0	5.4	5.2	5.4	6.7	6.3	6.6
Fort Smith	87.5	87.5	87.2	9.5	9.2	9.1	10.8	10.5	10.5
Little Rock—North Little Rock	198.1	196.2	194.8	15.0	14.2	14.2	7.5	7.2	7.3
Pine Bluff	39.2	38.3	37.6	4.2	3.7	3.7	10.7	9.6	9.8
CALIFORNIA ¹	12,201.5	12,246.7	12,433.7	1,142.9	1,214.3	1,251.3	9.4	9.9	10.1
Anaheim—Santa Ana—Garden Grove	1,205.7	1,206.8	1,226.6	85.3	79.1	86.1	7.1	6.6	7.0
Bakersfield	214.3	219.2	225.9	21.5	29.0	28.1	10.0	13.2	12.4
Fresno	293.5	297.2	304.5	36.3	41.6	40.7	12.4	14.0	13.4
Los Angeles—Long Beach ²	3,797.0	3,749.0	3,783.0	335.0	377.0	385.0	8.8	10.1	10.2
Modesto	140.3	142.4	146.0	27.1	29.4	29.9	19.3	20.6	20.5
Oxnard—Simi Valley—Ventura	263.1	269.0	271.8	24.7	24.3	26.5	9.4	9.0	9.7
Riverside—San Bernardino—Ontario	634.7	640.5	649.0	73.3	69.5	73.9	11.6	10.8	11.4
Sacramento	515.2	519.9	528.7	56.5	55.0	56.2	11.0	10.6	10.6
Salinas—Seaside—Monterey	147.6	149.0	152.8	12.6	17.2	16.3	8.5	11.5	10.7
San Diego	833.3	840.4	855.7	74.3	72.4	77.0	8.9	8.6	9.0
San Francisco—Oakland	1,743.0	1,770.7	1,801.4	137.0	140.0	152.1	7.9	7.9	8.4
San Jose	822.0	833.1	849.1	60.0	63.2	68.5	7.3	7.6	8.1
Santa Barbara—Santa Maria—Lompoc	162.8	167.0	169.1	12.2	12.4	13.3	7.5	7.4	7.9
Santa Rosa	147.7	149.5	150.8	14.3	14.3	14.3	9.7	9.6	9.5
Stockton	182.1	179.6	186.5	28.0	29.2	30.8	15.4	16.2	16.5
Vallejo—Fairfield—Napa	141.5	144.7	147.2	13.5	15.8	15.9	9.6	10.9	10.8
COLORADO	1,602.8	1,644.5	1,675.5	125.1	129.0	121.7	7.8	7.8	7.3
Denver—Boulder	947.6	981.6	995.3	63.4	64.1	62.2	6.7	6.5	6.2
CONNECTICUT	1,631.2	1,615.1	1,638.3	111.6	101.6	104.6	6.8	6.3	6.4
Bridgeport	195.8	192.0	195.3	14.9	14.8	15.3	7.6	7.7	7.8
Hartford	392.2	392.5	396.5	24.4	22.0	22.8	6.2	5.6	5.8
New Britain	74.9	72.1	71.6	7.4	5.4	5.1	9.8	7.5	7.1
New Haven—West Haven	201.6	198.3	201.5	14.4	13.1	14.8	7.2	6.6	7.3
Stamford	129.9	130.3	133.0	5.4	5.6	5.7	4.2	4.3	4.3
Waterbury	107.2	104.7	106.5	9.6	8.1	7.4	9.0	7.8	6.9
DELAWARE	307.1	298.5	302.8	26.8	20.5	23.4	8.7	6.9	7.7
Wilmington ¹	268.7	262.3	264.3	25.2	19.1	21.9	9.4	7.3	8.3
DISTRICT OF COLUMBIA	318.1	317.2	323.8	33.4	33.2	35.5	10.5	10.5	11.0
Washington SMSA ¹	1,728.6	1,743.1	1,781.1	103.1	83.0	89.8	6.0	4.8	5.0
FLORIDA ²	4,721.3	4,747.7	4,956.7	362.4	412.4	434.4	7.7	8.7	8.8
Daytona Beach	117.2	115.6	122.4	6.8	8.2	9.6	5.8	7.1	7.9
Fort Lauderdale—Hollywood	499.0	491.4	510.5	30.7	38.0	38.9	6.1	7.7	7.6
Fort Myers—Cape Coral	101.6	105.7	108.3	7.0	8.3	7.9	6.9	7.9	7.3
Gainesville	83.8	78.3	81.7	3.5	3.8	4.0	4.2	4.9	4.8
Jacksonville	355.1	360.6	376.5	23.2	31.4	31.7	6.5	8.7	8.4
Lakeland—Winter Haven	148.7	146.8	152.3	22.6	20.7	23.5	15.2	14.1	15.5
Melbourne—Titusville—Cocoa	126.8	129.2	137.0	9.3	10.2	11.7	7.3	7.9	8.5
Miami	849.9	836.0	868.9	84.0	85.2	84.8	9.9	10.2	9.8
Orlando	394.8	414.3	436.8	24.2	28.4	33.1	6.1	6.9	7.6
Pensacola	127.4	130.4	137.7	7.9	10.2	10.7	6.2	7.8	7.8
Sarasota	84.5	86.1	89.7	5.1	5.8	5.7	6.0	6.7	6.4
Tallahassee	86.1	86.6	91.8	4.0	4.7	5.2	4.6	5.4	5.6
Tampa—St. Petersburg	742.7	751.6	782.7	49.5	58.7	59.6	6.7	7.8	7.6
West Palm Beach—Boca Raton	275.0	283.8	292.8	20.5	25.1	27.2	7.5	8.9	9.3

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	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	June 1982	May 1983	June 1983p	June 1982	May 1983	June 1983p	June 1982	May 1983	June 1983p
GEORGIA	2,682.3	2,694.9	2,702.1	212.3	193.3	185.1	7.9	7.2	6.8
Albany	53.5	52.7	53.0	5.1	4.8	5.1	9.5	9.2	9.5
Athens	65.9	66.7	66.8	3.9	4.3	3.8	5.9	6.5	5.8
Atlanta	1,104.4	1,115.2	1,119.5	71.9	67.6	66.9	6.5	6.1	6.0
Augusta	136.1	137.0	137.0	12.6	12.2	11.8	9.3	8.9	8.6
Columbus ¹	90.9	86.8	87.7	9.9	7.4	7.1	10.9	8.6	8.1
Macon	108.4	108.4	109.1	7.5	8.1	8.1	6.9	7.4	7.4
Savannah	98.4	99.3	97.9	7.7	8.6	7.5	7.8	8.6	7.7
HAWAII	465.4	462.6	467.4	32.9	29.6	33.7	7.1	6.4	7.2
Honolulu	356.1	354.9	356.5	22.8	20.3	22.6	6.4	5.7	6.3
IDAHO	456.5	453.6	463.1	42.5	48.1	44.9	9.3	10.6	9.7
Boise City	94.1	96.5	98.4	6.8	8.2	8.0	7.2	8.5	8.1
ILLINOIS²	5,691.1	5,591.2	5,639.9	667.7	658.0	718.5	11.7	11.8	12.7
Bloomington—Normal	61.3	62.2	62.4	5.1	5.1	5.4	8.3	8.1	8.6
Champaign—Urbana—Rantoul	82.8	87.9	83.2	4.8	6.0	6.2	5.8	6.8	7.5
Chicago	3,561.8	3,471.7	3,517.2	396.3	374.6	409.6	11.1	10.8	11.6
Davenport—Rock Island—Moline ¹	194.5	192.2	194.3	25.5	28.5	30.1	13.1	14.8	15.5
Decatur	64.7	63.8	62.1	10.0	10.5	10.4	15.4	16.4	16.7
Kankakee	43.9	41.7	42.2	7.3	7.0	7.5	16.5	16.8	17.8
Peoria	179.1	173.3	178.0	27.8	27.7	32.4	15.5	16.0	18.2
Rockford	139.1	134.3	136.5	25.3	19.7	21.4	18.2	14.7	15.7
Springfield	101.6	101.2	100.9	7.6	9.1	9.7	7.4	9.0	9.6
INDIANA	2,611.5	2,557.2	2,545.2	299.3	258.6	249.4	11.5	10.1	9.8
Anderson	55.6	54.2	53.9	7.6	6.3	5.6	13.6	11.5	10.3
Elkhart	70.0	72.5	74.3	6.3	4.1	4.2	8.9	5.6	5.6
Evansville ¹	148.6	148.2	N.A.	12.8	14.4	N.A.	8.6	9.7	N.A.
Fort Wayne	189.5	182.6	181.4	22.5	18.7	17.3	11.9	10.3	9.6
Gary—Hammond—East Chicago	289.8	277.1	278.0	45.8	39.6	38.0	15.8	14.3	13.7
Indianapolis	607.2	598.8	599.5	55.1	52.6	52.1	9.1	8.8	8.7
Lafayette—West Lafayette	59.6	61.6	60.2	4.5	4.2	4.6	7.5	6.9	7.6
Muncie	54.5	54.5	51.9	6.8	5.9	5.6	12.4	10.8	10.8
South Bend	141.5	137.3	139.3	13.7	11.0	11.8	9.7	8.0	8.5
Terre Haute	79.9	79.4	77.7	9.1	9.5	8.9	11.4	12.0	11.4
IOWA	1,473.0	1,437.9	1,435.1	123.1	117.1	110.9	8.4	8.1	7.7
Cedar Rapids	87.0	82.6	82.0	8.8	7.3	6.7	10.1	8.8	8.1
Des Moines	186.7	182.1	180.1	14.7	13.9	13.3	7.9	7.7	7.4
Dubuque	44.7	42.5	42.3	6.0	5.1	5.0	13.4	11.9	11.8
Sioux City ¹	55.5	54.6	54.5	4.9	4.5	4.4	8.9	8.2	8.1
Waterloo—Cedar Falls	67.5	64.7	63.1	7.8	8.3	7.6	11.5	12.9	12.1
KANSAS	1,217.9	1,202.9	1,215.3	77.1	73.0	74.8	6.3	6.1	6.2
Lawrence	32.2	34.6	32.4	1.7	1.7	1.9	5.4	5.0	5.8
Topeka	97.2	96.2	97.3	6.4	6.2	6.7	6.6	6.4	6.9
Wichita	229.2	223.1	225.8	20.1	17.0	17.4	8.8	7.6	7.7
KENTUCKY	1,697.2	1,648.7	1,661.7	173.8	175.6	179.8	10.2	10.7	10.8
Lexington—Fayette	182.0	174.5	N.A.	10.8	8.9	N.A.	6.0	5.1	N.A.
Louisville ¹	435.2	418.4	N.A.	49.2	42.1	N.A.	11.3	10.1	N.A.
Owensboro	43.3	42.3	N.A.	3.7	4.1	N.A.	8.5	9.6	N.A.
LOUISIANA	1,870.8	1,859.2	1,880.7	199.4	235.6	241.2	10.7	12.7	12.8
Alexandria	73.7	74.5	75.6	8.7	9.2	9.6	11.8	12.3	12.7
Baton Rouge	229.6	231.4	233.9	21.9	24.4	25.8	9.5	10.5	11.0
Lafayette	99.1	100.3	102.2	5.3	8.3	8.8	5.3	8.3	8.6
Lake Charles	78.3	74.1	74.8	11.9	11.1	11.5	15.2	15.0	15.3
Monroe	57.1	57.7	58.1	7.1	6.7	6.8	12.4	11.5	11.8
New Orleans	518.6	508.1	511.7	50.1	56.8	57.3	9.7	11.2	11.2
Shreveport	166.2	161.6	165.1	15.9	19.9	20.5	9.6	12.3	12.4
MAINE	528.0	537.6	552.4	42.7	51.4	47.5	8.1	9.6	8.6
Lewiston—Auburn	38.6	39.8	40.0	3.5	3.8	3.7	9.1	9.5	9.2
Portland	96.1	100.8	102.8	5.9	7.0	6.8	6.2	6.9	6.6
MARYLAND	2,192.6	2,144.7	2,187.9	183.6	141.0	143.2	8.4	6.6	6.5
Baltimore	1,086.5	1,052.4	1,068.9	108.2	80.1	79.8	10.0	7.6	7.5

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	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	June 1982	May 1983	June 1983p	June 1982	May 1983	June 1983p	June 1982	May 1983	June 1983p
MASSACHUSETTS¹	3,039.1	2,951.5	3,025.2	273.7	192.6	226.4	9.0	6.5	7.5
Boston	1,455.6	1,441.4	1,463.4	114.6	80.4	95.4	7.9	5.6	6.5
Brockton	83.5	81.3	83.3	9.2	6.3	7.5	11.0	7.7	9.0
Fall River ¹	77.5	72.8	74.2	9.5	7.0	7.7	12.3	9.6	10.4
Lawrence—Haverhill ¹	151.2	146.6	150.3	14.7	10.3	11.7	9.7	7.0	7.8
Lowell	135.4	133.0	135.9	11.8	7.1	8.4	8.7	5.3	6.2
New Bedford	87.3	85.2	87.6	11.5	7.7	8.6	13.2	9.0	9.8
Springfield—Chicopee—Holyoke	291.5	282.7	286.3	26.9	18.8	21.9	9.2	6.6	7.6
Worcester	203.6	193.3	202.4	20.7	14.7	17.4	10.2	7.6	8.6
MICHIGAN²	4,316.7	4,377.2	4,420.2	617.1	641.3	647.5	14.3	14.7	14.6
Ann Arbor	140.9	N.A.	N.A.	12.1	N.A.	N.A.	8.6	N.A.	N.A.
Battle Creek	83.1	N.A.	N.A.	13.4	N.A.	N.A.	16.1	N.A.	N.A.
Bay City	53.0	N.A.	N.A.	8.1	N.A.	N.A.	15.2	N.A.	N.A.
Benton Harbor	72.3	N.A.	N.A.	11.5	N.A.	N.A.	15.9	N.A.	N.A.
Detroit	1,997.7	N.A.	N.A.	290.3	N.A.	N.A.	14.5	N.A.	N.A.
Flint	225.5	N.A.	N.A.	41.9	N.A.	N.A.	18.6	N.A.	N.A.
Grand Rapids	329.5	N.A.	N.A.	36.9	N.A.	N.A.	11.2	N.A.	N.A.
Jackson	67.0	N.A.	N.A.	10.0	N.A.	N.A.	14.9	N.A.	N.A.
Kalamazoo—Portage	138.7	N.A.	N.A.	15.2	N.A.	N.A.	11.0	N.A.	N.A.
Lansing—East Lansing	242.4	N.A.	N.A.	26.6	N.A.	N.A.	11.0	N.A.	N.A.
Muskegon—Norton Shores—Muskegon Heights	81.1	N.A.	N.A.	14.5	N.A.	N.A.	17.8	N.A.	N.A.
Saginaw	100.4	N.A.	N.A.	15.8	N.A.	N.A.	15.8	N.A.	N.A.
MINNESOTA	2,242.1	2,145.8	2,194.1	174.8	169.8	176.7	7.8	7.9	8.1
Duluth—Superior ¹	119.9	110.9	110.2	19.3	18.6	17.0	16.1	16.8	15.4
Minneapolis—St. Paul	1,188.1	1,150.2	1,164.9	79.0	76.2	80.6	6.7	6.6	6.9
Rochester	59.0	58.0	59.8	3.4	3.1	3.5	5.7	5.3	5.8
St. Cloud	79.1	78.2	79.3	7.1	7.1	7.5	9.0	9.1	9.5
MISSISSIPPI	1,062.6	1,064.2	1,073.2	118.9	127.4	145.7	11.2	12.0	13.6
Jackson	162.5	158.6	160.8	12.5	12.4	14.8	7.7	7.8	9.2
MISSOURI	2,342.0	2,343.1	2,365.5	219.2	219.4	217.0	9.4	9.4	9.2
Kansas City ¹	689.5	676.2	691.3	59.5	53.9	54.1	8.6	8.0	7.8
St. Joseph	45.8	46.4	47.3	4.1	4.7	4.6	8.9	10.0	9.7
St. Louis ¹	1,134.8	1,132.9	1,137.3	114.6	118.6	120.1	10.1	10.5	10.6
Springfield	107.7	111.8	112.1	7.1	8.4	7.5	6.6	7.5	6.7
MONTANA	410.4	383.7	392.1	35.6	31.5	32.3	8.7	8.2	8.2
NEBRASKA	817.5	813.9	817.9	51.2	48.3	47.0	6.3	5.9	5.7
Lincoln	112.0	110.7	108.8	6.2	5.3	5.2	5.6	4.8	4.8
Omaha ¹	290.4	289.9	291.2	21.5	18.9	18.6	7.4	6.5	6.4
NEVADA	489.4	502.2	502.0	48.6	47.9	45.3	9.9	9.5	9.0
Las Vegas	271.3	283.1	282.4	30.0	27.8	27.0	11.1	9.8	9.6
Reno	133.8	136.0	135.3	10.3	11.4	10.1	7.7	8.4	7.5
NEW HAMPSHIRE	495.4	499.0	505.8	34.5	28.0	23.7	7.0	5.6	4.7
Manchester	85.2	88.5	88.7	6.0	4.7	3.9	7.0	5.3	4.4
Nashua	85.5	88.2	89.6	5.6	3.9	3.6	6.5	4.4	4.0
NEW JERSEY	3,666.5	3,613.7	3,696.8	314.2	271.7	314.7	8.6	7.5	8.5
Atlantic City	123.7	121.5	126.2	11.3	9.9	11.4	9.1	8.2	9.0
Jersey City	245.7	238.8	243.4	33.3	29.6	33.0	13.6	12.4	13.6
Long Branch—Asbury Park	256.7	252.1	261.7	20.5	16.8	20.3	8.0	6.7	7.8
New Brunswick—Perth Amboy—Sayreville	334.4	333.6	337.0	26.1	23.3	27.0	7.8	7.0	8.0
Newark	980.9	968.0	985.0	81.8	70.4	81.9	8.3	7.3	8.3
Paterson—Clifton—Passaic	213.5	216.4	220.3	23.1	21.2	24.0	10.8	9.8	10.9
Trenton	159.2	157.6	160.7	12.7	9.6	11.9	8.0	6.1	7.4
Vineland—Millville—Bridgeton	58.5	57.3	59.3	9.4	7.8	9.4	16.1	13.6	15.8
NEW MEXICO	600.0	600.1	609.5	57.7	61.4	65.9	9.6	10.2	10.8
Albuquerque	219.8	223.8	226.9	18.2	18.9	20.7	8.3	8.4	9.1
Las Cruces	37.5	40.2	39.4	4.1	3.9	4.0	10.9	9.6	10.2

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	June 1982	May 1983	June 1983p	June 1982	May 1983	June 1983p	June 1982	May 1983	June 1983p
NEW YORK¹	8,134.9	7,869.3	8,209.0	695.2	669.2	750.3	8.5	8.5	9.1
Albany—Schenectady—Troy.....	376.6	377.1	387.8	26.1	29.2	33.1	6.9	7.7	8.5
Binghamton ¹	141.8	139.9	145.6	11.0	11.3	13.2	7.7	8.1	9.0
Buffalo.....	555.1	539.9	558.4	66.4	68.9	77.0	12.0	12.8	13.8
Elmira.....	38.9	37.1	38.4	4.8	4.3	4.6	12.3	11.7	12.0
Nassau-Suffolk.....	1,358.6	1,361.8	1,418.8	86.6	86.8	104.9	6.4	6.4	7.4
New York.....	3,742.2	3,499.9	3,672.6	341.9	291.5	313.7	9.1	8.3	8.5
New York City ²	3,122.0	2,881.0	3,029.0	309.0	257.0	270.0	9.9	8.9	8.9
Poughkeepsie.....	113.8	114.8	118.6	6.9	7.7	9.1	6.0	6.7	7.6
Rochester.....	477.2	475.3	491.8	32.0	41.4	51.1	6.7	8.7	10.4
Syracuse.....	300.3	300.4	312.9	23.5	23.7	29.3	7.8	7.9	9.4
Utica—Rome.....	135.8	134.3	139.2	11.5	12.2	13.9	8.5	9.1	10.0
NORTH CAROLINA	2,992.0	2,905.1	2,949.6	279.5	244.1	251.6	9.3	8.4	8.5
Asheville.....	93.4	91.4	94.7	7.3	6.4	6.5	7.8	7.0	6.9
Charlotte—Gastonia.....	384.3	383.6	389.3	26.4	24.5	26.5	6.9	6.4	6.8
Greensboro—Winston-Salem—High Point.....	460.9	455.5	462.6	43.4	33.2	34.3	9.4	7.3	7.4
Raleigh—Durham.....	318.7	323.0	327.8	14.5	13.3	15.0	4.5	4.1	4.6
NORTH DAKOTA	329.5	331.2	330.7	18.0	17.2	15.7	5.5	5.2	4.7
Fargo—Moorehead ¹	72.7	72.9	72.6	4.1	3.7	3.9	5.7	5.1	5.4
OHIO¹	5,263.8	5,166.1	5,266.9	645.1	664.3	671.6	12.3	12.9	12.8
Akron.....	308.7	311.6	311.8	35.6	40.1	38.9	11.5	12.9	12.5
Canton.....	196.6	194.6	196.4	26.1	30.3	28.8	13.3	15.6	14.7
Cincinnati ¹	700.2	683.3	N.A.	73.2	73.4	N.A.	10.5	10.7	N.A.
Cleveland.....	963.3	935.7	959.0	104.9	114.1	117.3	10.9	12.2	12.2
Columbus.....	584.7	577.9	593.2	52.9	53.9	57.3	9.1	9.3	9.7
Dayton.....	401.2	388.9	397.6	46.4	41.5	43.3	11.6	10.7	10.9
Toledo ¹	377.9	N.A.	N.A.	44.9	N.A.	N.A.	11.9	N.A.	N.A.
Youngstown—Warren.....	244.4	234.3	237.7	45.4	40.5	40.4	18.6	17.3	17.0
OKLAHOMA	1,488.8	1,498.6	1,524.7	82.4	131.5	137.1	5.5	8.8	9.0
Enid.....	31.6	31.1	31.6	1.4	2.3	2.5	4.5	7.3	7.9
Lawton.....	35.7	35.8	36.2	1.7	2.3	2.5	4.8	6.4	6.9
Oklahoma City.....	462.0	469.2	478.4	20.9	30.3	31.1	4.5	6.5	6.5
Tulsa.....	356.4	353.4	358.4	21.8	34.9	36.2	6.1	9.9	10.1
OREGON	1,352.0	1,343.6	1,367.9	150.9	136.9	124.8	11.2	10.2	9.1
Eugene—Springfield.....	134.4	132.1	133.5	15.9	14.0	13.0	11.9	10.6	9.7
Medford.....	64.8	64.3	65.1	9.2	7.0	6.5	14.2	10.9	9.9
Portland ¹	674.5	667.1	678.5	66.9	63.2	60.7	9.9	9.5	8.9
Salem.....	127.5	124.3	130.1	13.3	11.9	10.3	10.4	9.6	8.0
PENNSYLVANIA¹	5,450.8	5,427.7	5,607.4	562.6	659.2	721.2	10.3	12.1	12.9
Allentown—Bethlehem—Easton ¹	309.6	303.5	313.0	29.3	36.2	38.8	9.5	11.9	12.4
Altoona.....	56.2	56.2	59.1	5.7	8.9	9.6	10.1	15.9	16.2
Erie.....	124.3	126.0	130.0	13.8	19.2	20.7	11.1	15.2	15.9
Harrisburg.....	234.2	232.4	240.8	13.6	15.1	16.7	5.8	6.5	6.9
Johnstown.....	105.5	105.3	110.7	15.7	22.1	23.5	14.9	21.0	21.2
Lancaster.....	183.8	180.6	186.1	12.3	11.4	12.9	6.7	6.3	6.9
Northeast Pennsylvania.....	285.6	284.5	295.4	29.0	31.8	35.9	10.2	11.2	12.2
Philadelphia ¹	2,173.6	2,179.2	2,234.1	184.5	190.5	210.4	8.5	8.7	9.4
Pittsburgh.....	1,039.4	1,021.4	1,061.4	125.1	156.6	171.4	12.0	15.3	16.2
Reading.....	157.9	156.7	162.4	15.0	15.4	17.5	9.5	9.8	10.8
Sharon.....	54.9	52.8	55.4	8.1	10.3	10.7	14.8	19.6	19.3
State College.....	49.4	51.0	50.0	4.2	5.3	6.1	8.6	10.4	12.1
Williamsport.....	52.0	52.2	53.6	5.3	7.8	8.5	10.2	14.9	15.8
York.....	181.4	177.6	183.0	21.7	19.1	21.8	12.0	10.7	11.9
RHODE ISLAND	490.0	470.0	477.5	50.6	40.2	39.8	10.3	8.6	8.3
Providence—Warwick—Pawtucket ¹	482.9	462.6	469.7	52.2	41.0	41.6	10.8	8.9	8.9
SOUTH CAROLINA	1,530.9	1,473.1	1,478.0	176.3	148.7	145.6	11.5	10.1	9.8
Charleston—North Charleston.....	185.3	180.5	182.8	15.9	15.0	16.0	8.6	8.3	8.7
Columbia.....	201.1	197.7	194.5	14.2	13.2	13.2	7.0	6.7	6.8
Greenville—Spartanburg.....	303.6	287.8	288.7	32.9	26.3	25.1	10.8	9.2	8.7
SOUTH DAKOTA	347.8	337.0	347.2	19.8	16.9	18.0	5.7	5.0	5.2
Sioux Falls.....	64.9	65.5	66.3	3.7	2.8	2.8	5.7	4.3	4.2
TENNESSEE	2,158.9	2,137.6	2,162.4	253.5	242.4	240.0	11.7	11.3	11.1
Chattanooga ¹	200.6	195.9	197.0	20.2	18.5	18.2	10.1	9.5	9.2
Knoxville.....	238.7	231.6	234.0	20.8	23.9	24.0	8.7	10.3	10.3
Memphis ¹	410.3	398.9	402.0	42.3	37.5	37.3	10.3	9.4	9.3
Nashville—Davidson.....	447.1	439.9	447.1	40.7	36.0	35.9	9.1	8.2	8.0

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	June 1982	May 1983	June 1983p	June 1982	May 1983	June 1983p	June 1982	May 1983	June 1983p
TEXAS¹	7,434.1	7,469.4	7,702.6	574.8	596.1	656.9	7.7	8.0	8.5
Abilene	78.0	77.8	80.8	5.7	3.9	4.4	7.4	5.1	5.4
Amarillo	91.8	95.8	99.3	5.2	4.9	5.4	5.7	5.1	5.5
Austin	290.1	300.8	302.5	15.3	12.1	12.8	5.3	4.0	4.2
Beaumont—Port Arthur—Orange	183.6	179.1	185.4	20.6	25.0	27.7	11.2	13.9	14.9
Brownsville—Harlingen—San Benito	87.2	84.7	87.9	11.2	13.6	14.8	12.8	16.1	16.8
Bryan—College Station	48.6	51.3	49.0	2.0	2.0	2.0	4.1	3.9	4.1
Corpus Christi	166.0	169.7	175.2	14.0	18.5	21.4	8.4	10.9	12.2
Dallas—Fort Worth	1,715.5	1,729.5	1,789.7	121.8	91.6	102.9	7.1	5.3	5.8
El Paso	192.8	192.8	198.4	24.1	23.4	24.9	12.5	12.1	12.5
Galveston—Texas City	91.2	90.7	93.8	10.6	11.0	12.1	11.7	12.2	12.9
Houston	1,774.4	1,763.7	1,821.0	124.2	167.3	183.4	7.0	9.5	10.1
Killeen—Temple	70.0	70.8	73.5	4.7	3.8	4.2	6.8	5.4	5.7
Laredo	41.3	41.1	42.6	6.1	10.8	11.3	14.9	26.2	26.6
Longview—Marshall	80.2	79.2	81.8	7.8	9.3	10.0	9.8	11.7	12.2
Lubbock	105.4	106.4	107.6	6.4	5.9	6.6	6.0	5.6	6.1
McAllen—Pharr—Edinburg	107.8	112.1	115.0	15.0	19.0	21.3	13.9	16.9	18.5
Midland	67.2	64.6	66.9	5.2	3.7	4.3	7.7	5.8	6.4
Odessa	77.2	71.5	73.8	6.2	7.0	7.6	8.0	9.8	10.2
San Angelo	48.5	46.8	48.0	3.7	2.4	2.7	7.6	5.2	5.6
San Antonio	472.6	480.7	496.3	36.2	28.2	31.5	7.7	5.9	6.3
Sherman—Denison	40.3	38.9	39.9	3.6	3.3	3.3	8.8	8.5	8.3
Texarkana	51.2	51.2	52.6	5.5	4.8	5.1	10.7	9.4	9.7
Tyler	73.2	73.0	74.9	5.3	4.7	5.1	7.2	6.4	6.8
Waco	84.0	83.8	85.7	5.5	4.4	5.0	6.6	5.2	5.8
Wichita Falls	69.9	65.7	68.1	6.4	4.3	4.4	9.1	6.5	6.5
UTAH	677.0	665.5	671.1	50.2	62.3	62.8	7.4	9.4	9.4
Salt Lake City—Ogden	442.2	435.6	437.5	32.7	38.1	38.7	7.4	8.7	8.8
VERMONT	265.3	260.0	262.0	17.4	19.8	18.4	6.6	7.6	7.0
Burlington	69.2	68.1	67.5	3.4	3.5	3.6	4.9	5.2	5.3
VIRGINIA	2,698.4	2,724.2	2,768.1	211.3	162.9	159.7	7.8	6.0	5.8
Lynchburg	77.7	76.8	77.1	6.9	5.2	4.6	8.9	6.8	5.9
Newport News—Hampton	172.1	178.5	183.4	11.7	8.8	8.6	6.8	4.9	4.7
Norfolk—Virginia Beach—Portsmouth	346.8	355.0	363.1	25.0	19.8	20.3	7.2	5.6	5.6
Petersburg—Colonial Heights—Hopewell	59.5	59.7	60.5	5.7	5.5	5.3	9.6	9.2	8.8
Richmond	343.2	349.0	351.7	22.3	17.9	16.1	6.5	5.1	4.6
Roanoke	114.2	115.7	118.4	8.9	6.5	6.9	7.8	5.6	5.9
WASHINGTON	2,058.1	2,027.1	2,062.1	242.3	221.7	225.4	11.8	10.9	10.9
WEST VIRGINIA	773.2	748.5	752.3	102.4	136.0	131.9	13.2	18.2	17.5
Charleston	122.8	117.1	117.4	11.7	15.6	15.6	9.6	13.3	13.3
Huntington—Ashland ²	124.5	122.2	N.A.	17.3	21.6	N.A.	13.9	17.6	N.A.
Parkersburg—Marietta ²	75.1	72.9	73.6	9.7	11.5	11.1	12.9	15.8	15.1
Wheeling ²	84.3	80.2	81.6	10.9	14.0	14.2	12.9	17.5	17.4
WISCONSIN	2,486.9	2,420.8	2,446.2	260.9	242.8	233.2	10.5	10.0	9.5
Appleton—Oshkosh	155.8	151.4	153.4	16.5	14.6	13.8	10.6	9.6	9.0
Eau Claire	61.1	61.6	60.7	6.0	5.7	5.4	9.8	9.3	9.0
Green Bay	95.4	93.7	95.9	8.8	8.4	8.6	9.2	9.0	8.9
Janesville—Beloit	76.4	71.4	73.6	11.5	8.6	8.3	15.0	12.1	11.3
Kenosha	55.3	60.9	61.6	5.6	6.2	6.0	10.1	10.1	9.8
La Crosse	50.8	52.3	51.5	4.1	4.4	4.1	8.1	8.4	7.9
Madison	192.3	191.1	192.1	12.9	12.1	12.1	6.7	6.4	6.3
Milwaukee	750.7	715.4	723.4	80.0	74.8	72.0	10.7	10.4	10.0
Racine	88.5	82.8	83.9	12.4	10.4	10.1	14.1	12.6	12.1
WYOMING	267.7	269.6	278.2	14.8	26.9	26.5	5.5	10.0	9.5

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 1982 have been benchmarked to 1982 Current Population Survey annual averages. Except in the 10 States and 2 areas designated by footnote 2, estimates for 1983 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, unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises, and members of the Armed Forces stationed in the United States. Civilian 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 civilians 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 disputes, 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 workers' 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 Economics and Statistics Service 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. However, certain activities, such as interstate railroads, parochial schools, and churches are not covered by unemployment insurance whereas these are included in this BLS establishment statistics.

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

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 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 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 the members of the Armed Forces stationed in the United States, who are included as part of the categories "noninstitutional population," "labor force," and "total employment," are 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.

CONCEPTS AND DEFINITIONS

The concepts and definitions underlying labor force data have been modified, but not substantially altered, since the inception of the survey in 1940; those used since 1967 are as follows:

Employed persons are (a) all civilians who, during the survey week, did any work at all as paid employees, in their own business, profession, or on their own 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 disputes, or personal reasons, whether they were paid for the time off or were seeking other jobs. Members of the Armed Forces stationed in the United States are also included in the employed total.

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 who are temporarily in the United States but not living on the premises of an embassy. Excluded are persons whose only activity consisted of work around the house (painting, repairing, or own home housework) or volunteer work for religious, charitable, and similar organizations.

Unemployed persons are all civilians who had no employment during the survey week, were available for work, except for temporary illness, and (a) had made specific efforts to find employment sometime during the prior 4 weeks, or (b) were waiting to be recalled to a job from which they had been laid off, or (c) were waiting to report to a new 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.

Unemployment is also categorized according to the status of individuals at the time they began to look for work. The 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. Each of these four categories of the unemployed may be expressed as an unemployment rate or proportion of the entire civilian labor force; the sum of the four rates thus equals the unemployment rate for all civilian workers.

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 those 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 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 labor pickup point.

The *civilian labor force* comprises all civilians classified as employed or unemployed in accordance with the criteria described above. The "labor force" also includes members of the Armed Forces stationed in the United States.

The *overall unemployment rate* represents the number unemployed as a percent of the labor force, including members of the Armed Forces stationed in the United States.

The *unemployment rate for all civilian workers* 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, race, ethnic origin, marital status, etc.

Participation rates represent the proportion of the population that is in the labor force. The *labor force participation rate*, is the ratio of the labor force, including the resident Armed Forces, to the noninstitutional population. The *civilian labor force participation rate* is the ratio of the civilian labor force to the civilian noninstitutional population. Civilian labor force 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 noninstitutional population that is employed. The *total employment-population ratio* is total employment, including the resident Armed Forces, as a percent of the noninstitutional population. The *civilian employment-population ratio* is the percentage of all employed civilians in the civilian noninstitutional population.

Not in the labor force includes all persons 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, retired, and other. The "other" group includes individuals reported as too old or temporarily unable to work, the voluntarily idle, seasonal workers for whom the survey week fell in an off season and who were not reported as looking for work, and persons who did not look for work because they believed that no jobs were available in the area or that no jobs were available for which they could qualify—discouraged workers. Persons doing only incidental, unpaid family work (less than 15 hours in the specified week) are also classified as not in labor force.

For persons not in the labor force, data on previous work experience, intentions to seek work, desire for a job at the time of interview, and reasons for not looking for work are published 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 these questions were asked in those households entering the sample for the first time and those returning for the second 4 months of interviewing, 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 job lasting 2 weeks or more. The classifications of occupations and industries used in data derived from the CPS are defined as in the 1980 census. 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, persons who normally work 40 hours a week but were off on the Columbus Day holiday would be reported as working 32 hours even though they were 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; 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. 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 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 that: (1) Unemployed persons looking for full-time work lost an average of 37.5 hours, (2) 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) persons on part time for economic reasons lost the difference between 37.5 hours and the actual number of hours they worked.

White, black, and other are terms used to describe the race of workers. Included in the "other" group are American Indians, Alaskan Natives, and Asians and Pacific Islanders. All tables in this publication which contain racial data, with the exception of A-4 and its annual counterpart, present data for the black population group. Because of their relatively small sample size, data for "other" races are not published. In the enumeration process, race is determined by the household respondent.

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. Persons of Hispanic origin may be of any race; thus they are included in both the white and black population groups.

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. These statistics are published in table A-6 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. Data are limited to men in the civilian noninstitutional population; i.e., veterans in institutions and women are excluded. Nonveterans are men who never served in the Armed Forces.

The *poverty areas* classification consists of all census geographic divisions in which 20 percent or more of the residents were poor according to the 1970 decennial census. Persons were classified as poor or not poor by using income thresholds adopted by a Federal interagency committee in 1969. These thresholds vary by family size, composition, and residence, (farm-nonfarm). While poverty areas have a substantial concentration of low-income residents, many poor persons live outside these areas, and, conversely, the areas include many people who are not poor.

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

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. 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. Data refer to wage and salary workers and the incorporated self-employed, who usually work full time on their sole or primary job.

Single, never married; married, spouse present; and other marital status are terms used to define the marital status of individuals at the time of interview. Married, spouse present, applies to husband and wife if both were reported as members of the same household even

though one may be temporarily absent on business, vacation, on a visit, in a hospital, etc. Other marital status applies to persons who are married, spouse absent; widowed; or divorced. Married, spouse absent, includes persons who are separated because of marital discord, as well as persons who are living apart because either the husband or the wife was employed and living away from home, serving in the Armed Forces, or had a different place of residence for any reason.

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 is 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 relates 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 count of families used in this publication includes primary families only, that is, all persons in the household who are related to the householder. Excluded are secondary families which include lodgers, guests, or resident employees living in a household but not related to the householder. Families are classified either as married-couple families or as families maintained by women or men without spouses. A family maintained by a woman or a man is one in which the householder is either single, widowed, divorced, or married, spouse absent. 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.

HISTORICAL COMPARABILITY

Change in lower age limit

The lower age limit for official statistics on the labor force, employment, and unemployment was raised from 14 to 16 years of age in January 1967. Insofar as possible, historical series have been revised to provide consistent information based on the population 16 years and over. For a detailed discussion of this and other definitional changes introduced at that time, including estimates of their effect on the various series, see "New Definitions for Employment and Unemployment," *Employment and Earnings and Monthly Report on the Labor Force*, February 1967.

Noncomparability of labor force levels

In addition to the changes introduced in 1967, there are several other periods of noncomparability in the labor force data: (1) Beginning in 1953, as a result of introducing data from the 1950 census into the estimating procedures, population levels were raised by about 600,000; labor force, total employment, and agricultural employment were increased by about 350,000, primarily affecting the figures for totals and men; 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 increase was in nonagricultural employment; other labor force categories were not appreciably affected. (3) Beginning in 1962, the introduction of data from the 1960 census reduced the population by about 50,000 and labor force and employment by about 200,000; unemployment totals were virtually unchanged. (4) Beginning in 1972, information from the 1970 census was introduced into the estimation procedures, increasing the population by 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. (5) A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment, which affected the white and black-and-other groups but had little effect on totals, 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.

In addition, 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 estimates had its greatest impact on estimates of 20- to 24-year-old men—particularly those of the black-and-other population—but had little effect on estimates of the total population 16 years and over. 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 in 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 men and 46,000 women. 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 January 1978, the introduction of an expansion in the sample and revisions in the estimation procedures resulted in an increase of about 250,000 in the 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 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 January 1979, the first-stage ratio estimation method was changed in the CPS estimation procedure. Differences between the old and new procedures exist only for metropolitan and nonmetropolitan area estimates, not for the total United States. 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*.

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 Beginning 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 for 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 cited 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.

Beginning in January 1983, the first-stage ratio adjustment methodology was updated to account for

results obtained from the 1980 census. 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 Beginning in January 1983" in the February 1983 issue of *Employment and Earnings*. There are only slight differences between the old and new procedures in estimates of level for the various labor force characteristics and virtually no differences in estimates of participation rates.

Changes in the occupational and industrial classification system.

Beginning in 1971, the comparability of occupational employment data was affected as a result of changes in the occupational classification system for the 1970 census that were introduced into the CPS. Comparability was further affected in December 1971, when a question relating to major activity or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. As a result of these changes, meaningful comparisons of occupational employment levels could not be made between 1971-72 and prior years nor between those 2 years. Unemployment rates were not significantly affected. For a further explanation of the changes in the occupational classification system, see "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*.

Beginning in January 1983, the occupational and industrial classification systems used in the 1980 census were introduced into the CPS. These systems differ from those developed for the 1970 census which were used in the CPS from January 1971 through December 1982.

The 1980 census occupational classification system evolved from the Standard Occupational Classification system (SOC). While the CPS occupational data are now comparable with other data sources, the new system is so radically different in concepts and nomenclature from the 1970 system that comparisons of historical data are not possible without major adjustments. For example, the 1980 major group "sales occupations" is substantially larger than the 1970 category "sales workers". Major additions include "cashiers" from "clerical workers" and some self-employed proprietors in retail trade establishments from "managers and administrators, except farm."

The industrial classification used in the 1980 census is based on the 1972 Standard Industrial Classification system (SIC), as modified in 1977. The adoption of the new system had much less of an adverse effect on historical comparability than did the new occupational

system. The most notable changes from the 1970 system were the transfer of farm equipment stores from "retail" to "wholesale" trade, postal service from "public administration" to "transportation", and some interchange between "professional and related services" and "public administration."

Additional information on the 1980 census occupational and industrial classification systems appears in "Revisions in the Current Population Survey Beginning in January 1983" in the February 1983 issue of *Employment and Earnings*.

Changes in the 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, the number of sample areas and the number of sample persons are increased occasionally. In 1953, the current rotation plan was introduced in which a sample unit is interviewed for 4 months, leaves the sample for 8 months, and then returns to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added 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 into the design. A coverage improvement sample, composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units, was included

in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction 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. Beginning in January 1982, the sample was expanded by 100 households to provide additional 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. A more detailed account of the history of the CPS sample design appears in *The Current Population Survey: Design and Methodology*, Technical Paper No. 40, Bureau of the Census, or *Concepts and Methods Used in Labor Force Statistics Derived From the Current Population Survey*, Report 463 Bureau of Labor Statistics.

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 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

Table A. Characteristics of the CPS sample, 1947 to date

Time period	Number of sample areas	Households eligible		Households visited but 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.

respondents 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 residential categories. For sample areas which are Standard Metropolitan Statistical Areas, (SMSA's), these residence categories are the central cities, 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. Effective with January 1983 data, the procedure corrects for the differences that existed at the time of the 1980 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 race only. Prior to January 1983, the State adjustment was also done by urban-rural status. At both the regional and the State levels, the race-residence categories were changed from white/non-white to black/nonblack. The residence categories at the State level of the estimation procedure were dropped because definitional differences between the 1970 census and the 1980 census made it impossible to continue using the same categories.

b. *Second-stage ratio estimate.* In this stage, the sample proportions of persons in specific categories are adjusted to the distribution of independent current

estimates of the civilian noninstitutional population in the same categories. The second-stage ratio adjustment which is performed to further reduce variability of the estimates and to correct to some extent for CPS under-coverage relative to the decennial census, 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 is applied to all sample persons and is a weighting to nationwide independent population estimates within 68 age-sex-race groups. The entire second-stage adjustment procedure is iterated six times, each time beginning at the weights developed the previous time. This ensures that the sample estimates of the population for both State and national age-sex-race categories will be virtually equal to the independent population control totals. This second-stage adjustment procedure incorporates changes instituted in January 1982. The nature and effect of these changes are discussed in detail in "Revisions in the 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. A description 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 tabulations 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 is derived by subtracting the Armed Forces and the institutional population for the estimate date from the total including Armed Forces overseas. The institutional population is computed by applying institutional proportions derived from the 1980 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 control 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. Similarly, sums of percent distributions may not always equal 100 percent because of rounding. 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 error. 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 repre-

sent 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 "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. Compared to the level of the decennial census, undercoverage is about 5 percent. It is known that the CPS undercoverage varies with age, sex, and race. Generally, undercoverage is larger for men than for women, 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 "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 Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Vol. 2, April 1973; and in *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:

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 2 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 for levels, labor force participation rates, and percentages as pertaining to the 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

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	255	195
Employed	277	209
Unemployed	155	146
Men, 20 years and over:		
Civilian labor force	151	130
Employed	170	150
Unemployed	112	105
Women, 20 years and over:		
Civilian labor force	177	128
Employed	179	135
Unemployed	93	92
Both sexes, 16 to 19 years:		
Civilian labor force	61	66
Employed	86	97
Unemployed	67	71
Black, 16 years and over:		
Civilian labor force	61	49
Employed	87	66
Unemployed	75	75
Men, 20 years and over:		
Civilian labor force	23	17
Employed	49	43
Unemployed	53	56
Women, 20 years and over:		
Civilian labor force	60	38
Employed	63	46
Unemployed	48	51
Both sexes, 16 to 19 years:		
Civilian labor force	33	36
Employed	30	35
Unemployed	34	34

Table C. Standard errors for unemployment rates by major characteristics

Characteristic	Standard error of—		Characteristic	Standard error of—	
	Monthly level	Consecutive month change		Monthly level	Consecutive month change
Total (all civilian workers)	0.14	0.13	OCCUPATION—Continued		
Men, 20 years and over .....	.19	.18	Machine operators, assemblers and inspectors	0.61	0.60
Women, 20 years and over .....	.21	.21	Transportation and material moving .....	.74	.72
Both sexes, 16 to 19 years .....	.75	.80	Handlers, equipment cleaners helpers, and laborers .....	.60	.78
White workers .....	.15	.14	Farming, forestry, and fishing .....	.72	.67
Black workers .....	.57	.52			
Married men, spouse present .....	.19	.17	INDUSTRY		
Married women, spouse present .....	.22	.21	Nonagricultural private wage and salary workers .....	.16	.16
Full-time workers .....	.15	.15	Mining	1.67	1.69
Part-time workers .....	.37	.46	Construction .....	.81	.81
Unemployed 15 weeks and over .....	.09	.08	Manufacturing .....	.35	.34
			Durable goods .....	.46	.47
OCCUPATION			Nondurable goods .....	.49	.49
Executive, administrative, and managerial ..	.28	.27	Transportation, communications, and public utilities .....	.52	.51
Professional specialty .....	.23	.22	Wholesale and retail trade .....	.31	.31
Technicians and related support .....	.56	.56	Finance and services .....	.24	.24
Sales .....	.33	.33	Government workers .....	.25	.25
Administrative support, including clerical .....	.29	.29	Agricultural wage and salary workers	1.32	1.22
Private household	1.10	1.02			
Protective service .....	.89	.93			
Service, except private household and protective .....	.44	.43			
Precision production, craft, and repair .....	.41	.40			

of persons and families for use with the CPS earnings data.

Standard errors for estimated totals. Tables D and E provide generalized standard errors for monthly totals and for month-to-month change. The figures given in these tables are to be used for the characteristics as indicated.

Illustration. Assume that in a given month the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table D shows that the standard error on an estimate of 12,000,000 is about 159,000. The 68-percent confidence interval as shown by these data is from 11,841,000 to 12,159,000. 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 118,000.

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 upon 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 by multiplying the standard error from table H by the appropriate factor from table I. When the numerator and denominator of the percentage are indifferent categories, use the factor indicated by the numerator of the percentage.

Illustration. Assume that in a given month 3.6 percent of a total of 90,771,000 employed persons are employed in agriculture. The standard error on an estimate of 3.6 percent with a base of 90,771,000 is obtained from table H (0.09 percent). 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. Suppose that one is interested in the year-to-year change of a monthly unemployment rate. 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 tables F (0.12 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 $0.12 \times 1.40 = 0.17$ 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 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	Total or white, 16 to 19 years	Black, 16 to 19 years	Total or white men only, or women only	Black men only, or women only	Total or white	Black
50	14	11	11	11	11	10	10	10	11
100	19	15	15	15	15	14	14	15	16
500	43	34	34	33	29	32	31	33	35
1,000	61	46	47	46	33	45	42	47	49
2,000	65	68	64	63	-	63	55	66	67
4,000	120	95	84	80	-	87	66	93	88
6,000	146	116	94	86	-	105	58	113	99
8,000	-	133	97	83	-	120	23	129	-
10,000	-	147	84	70	-	132	-	143	-
15,000	-	177	50	-	-	155	-	172	-
20,000	-	201	-	-	-	170	-	195	-
30,000	-	236	-	-	-	188	-	-	-
40,000	-	261	-	-	-	189	-	-	-
50,000	-	278	-	-	-	175	-	-	-
60,000	-	288	-	-	-	141	-	-	-
70,000	-	293	-	-	-	61	-	-	-
80,000	-	293	-	-	-	-	-	-	-
100,000	-	273	-	-	-	-	-	-	-
120,000	-	231	-	-	-	-	-	-	-

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	Total or white, 16 to 19 years	Black, 16 to 19 years	Total or white	Both sexes 16 to 19 years, or part-time labor force ²	Black	Black, 16 to 19 years
50	8	8	13	13	12	13	12	12
100	11	11	18	18	16	18	17	18
500	25	25	39	34	37	40	38	35
1,000	36	35	54	36	51	54	52	37
2,000	50	47	72	-	72	70	69	-
4,000	70	62	88	-	99	78	85	-
6,000	86	70	88	-	118	60	87	-
8,000	98	73	71	-	132	-	-	-
10,000	109	71	-	-	143	-	-	-
15,000	131	42	-	-	160	-	-	-
20,000	148	-	-	-	165	-	-	-
30,000	174	-	-	-	-	-	-	-
40,000	191	-	-	-	-	-	-	-
50,000	203	-	-	-	-	-	-	-
60,000	210	-	-	-	-	-	-	-
70,000	212	-	-	-	-	-	-	-
80,000	211	-	-	-	-	-	-	-
100,000	193	-	-	-	-	-	-	-
120,000	153	-	-	-	-	-	-	-

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	2.09	2.94	4.57	6.28	7.46	8.34	9.01	9.05	9.87	10.21
100	1.48	2.08	3.23	4.44	5.28	5.90	6.37	6.73	6.98	7.22
500 .....	.66	.93	1.45	1.99	2.36	2.64	2.85	3.01	3.12	3.27
1,000 .....	.47	.66	1.02	1.40	1.67	1.87	2.01	2.13	2.21	2.28
2,000 .....	.33	.46	.72	.99	1.18	1.32	1.42	1.50	1.56	1.61
4,000 .....	.23	.33	.51	.70	.83	.93	1.01	1.06	1.10	1.14
6,000 .....	.19	.27	.42	.57	.66	.76	.82	.87	.90	.93
10,000 .....	.15	.21	.32	.44	.53	.59	.64	.67	.70	.72
20,000 .....	.10	.15	.23	.31	.37	.42	.45	.47	.49	.51
60,000 .....	.06	.08	.13	.18	.21	.24	.26	.27	.27	.29
100,000 .....	.05	.07	.10	.14	.17	.19	.20	.21	.22	.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	5.14	7.18	8.89	9.90	10.93	11.81	12.58	14.48
100	1.64	2.32	3.64	5.08	6.14	7.00	7.12	8.35	8.89	10.17
500 .....	.73	1.04	1.83	2.27	2.74	3.13	3.45	3.73	3.97	4.53
1,000 .....	.52	.73	1.15	1.60	1.94	2.21	2.44	2.63	2.80	3.19
2,000 .....	.37	.52	.81	1.13	1.37	1.56	1.72	1.85	1.97	2.24
4,000 .....	.26	.37	.57	.80	.96	1.10	1.20	1.30	1.38	1.56
6,000 .....	.21	.30	.47	.65	.78	.89	.96	1.05	1.11	-
10,000 .....	.16	.23	.36	.50	.60	.68	.75	.80	-	-
20,000 .....	.12	.16	.25	.35	.42	.47	.51	.54	-	-
60,000 .....	.07	.09	.14	.19	.22	.23	.24	-	-	-
100,000 .....	.05	.07	.11	.14	.15	.15	-	-	-	-

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	2.14	3.01	4.69	6.46	7.68	8.61	9.32	9.86	10.27	10.76
100	1.51	2.13	3.32	4.57	5.43	6.09	6.59	6.97	7.26	7.61
500 .....	.68	.95	1.48	2.04	2.43	2.72	2.95	3.12	3.25	3.40
1,000 .....	.48	.67	1.05	1.44	1.72	1.92	2.08	2.21	2.30	2.41
2,000 .....	.34	.48	.74	1.02	1.22	1.36	1.47	1.56	1.62	1.70
4,000 .....	.24	.34	.52	.72	.86	.96	1.04	1.10	1.15	1.20
6,000 .....	.20	.28	.43	.59	.70	.79	.85	.90	.94	.98
10,000 .....	.15	.21	.33	.46	.54	.61	.66	.70	.73	.76
20,000 .....	.11	.15	.23	.32	.38	.43	.47	.49	.51	.54
40,000 .....	.08	.11	.17	.23	.27	.30	.33	.35	.36	.38
60,000 .....	.06	.09	.14	.19	.22	.25	.27	.28	.30	.31
80,000 .....	.05	.08	.12	.16	.19	.22	.23	.25	.26	.27
100,000 .....	.05	.07	.10	.14	.17	.19	.21	.22	.23	.24
160,000 .....	.04	.05	.08	.11	.13	.15	.16	.17	.18	.19

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 and unemployment data:			Total or white:		
Total	1.00	.74	Total .....	.97	1.08
Men only .....	.93	.84	Both sexes, 16 to 19 years .....	.97	1.21
Women only .....	.86	.75	Black:		
Both sexes, 18 to 19 years	1.00	1.18	Total	1.04	1.13
Part-time labor force	1.00	1.18	Both sexes, 16 to 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	Factor				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or men	1.30	0.89	0.80	0.72	0.70
Women or teenagers (16 to 19 years)	1.30	.83	.80	.58	.70
Part time	1.40	.74	.80	.46	.70
Labor force data other than agricultural employment and unemployment data:					
Total or white	1.30	.88	.66	.67	.70
Black or teenagers (16 to 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	.86	.39	.54

Table K. Standard errors for estimates of quarterly level, to be used with CPS earnings data

(In thousands)

Estimated quarterly level	Characteristic								
	Total			Men				Women	
	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	36	36	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 the 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), recordkeeping, 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 are 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 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 adjustments 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 level 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 employ-

ment 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 various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1982 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

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.

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 1982 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,

Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1982

Industry division	Benchmark, March 1982	Estimate, March 1982	Percent difference
Total	89,586,000	89,679,000	0.1
Mining	1,205,000	1,178,000	2.2
Construction	3,838,000	3,631,000	.2
Manufacturing	19,213,000	19,207,000	(¹)
Transportation and public utilities	5,070,000	5,049,000	.4
Wholesale and retail trade	20,062,000	20,306,000	-1.2
Finance, insurance, and real estate	5,294,000	5,304,000	-.2
Services	18,888,000	18,828,000	.3
Government	16,196,000	16,176,000	.1

¹ Less than 0.05 percent.

the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to design samples for these industries with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less 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

Table N. Approximate size and coverage of BLS employment and payroll sample, March 1982¹

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	189,000	36,371,200	41
Mining	2,600	434,500	36
Construction	18,600	721,800	20
Manufacturing	47,700	10,612,300	55
Transportation and public utilities:			
Railroad transportation (ICC)	37	401,800	92
Other transportation and public utilities	8,500	2,840,800	61
Wholesale and retail trade	45,900	3,511,300	18
Finance, insurance, and real estate	13,100	1,967,100	37
Services	31,600	4,150,600	22
Government:			
Federal ²	5,000	2,725,000	100
State and local	16,000	9,006,000	67

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 5,000 reports covering about 63 percent of employment in Federal establishments.

response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table O presents the average percent revisions of the five most recent benchmarks 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-

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	0.4	-	-
Total private .....	.4	0.1	0.2
Mining	1.4	1.0	1.3
Construction	1.9	.2	.5
Manufacturing .....	.3	.1	.2
Durable goods .....	.3	.1	.3
Nondurable goods .....	.4	.1	.2
Transportation and public utilities .....	.4	.7	.6
Trade .....	.8	.1	.3
Wholesale .....	.4	.2	.4
Retail	1.0	.2	.4
Finance, insurance, and real estate .....	.4	.2	.4
Services .....	.6	.4	.6
Government ³ .....	.5	-	-

¹ The average percent revision in employment for the following benchmarks: 1978, 1979, 1980, 1981, and 1982.

² Relative errors relate to 1982 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.

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.

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	2.2	4.0
100,000	3,900	1.3	2.3
200,000	5,600	1.1	2.0
500,000	14,000	.9	1.6
1,000,000	15,000	.8	1.2
2,000,000	26,000	.5	.9

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to 1982 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. 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

Table Q. Errors of preliminary employment estimates

Category	Root-mean-square error of—	
	Monthly level	Month-to-month change
INDUSTRY DIVISIONS		
Total nonagricultural employment	101,000	88,000
Goods producing	42,000	36,000
Mining	5,000	5,000
Construction	22,000	18,000
Manufacturing	33,000	29,000
Durable two-digit industries	6,300	5,900
Nondurable two-digit industries	4,500	4,500
Service-producing	77,000	72,000
Transportation and public utilities	14,000	15,000
Wholesale and retail trade	31,000	28,000
Finance, insurance, and real estate	8,000	7,000
Services	30,000	24,000
Government	61,000	53,000

NOTE: Division level data are based on differences from January 1977 through December 1982. Two-digit industry data are based on differences from January 1982 through December 1982.

each cooperating State agency are presented in a summary volume published annual 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 all persons measure changes in the volume of goods and services produced per paid hour of labor input.

Compensation per hour includes wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. The data also include an estimate of wages, salaries, and supplementary 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* includes 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 business sector and the nonfarm business sector, these indexes relate to the gross domestic product less household and institutions, owner-occupied hous-

ing, and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the gross domestic product of nonfinancial corporate business.

Manufacturing 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 Job Training and Partnership Act and the Public Works and Economic Development Act.

ESTIMATING METHODS

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

Monthly labor force and unemployment estimates in the remaining 40 States, District of Columbia, and 239 labor market areas are prepared in several stages. Labor force is the sum of the employment and unemployment levels, which are estimated in accordance with the BLS *Manual for Developing Local Area Unemployment Statistics*.

1. *Preliminary estimate—employment:* The total employment estimate is based 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 several categories of employment 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, to which are added estimates for employment not covered by UI.

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 person 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 noncovered 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 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 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 and the District of Columbia 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 the 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 the 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-based data are published regularly in *Employment and Earnings*.

The seasonal adjustment program used for these series is an adaptation of the standard ratio-to-moving average method. It provides for "moving" adjustment

factors to take account of changing seasonal patterns. A detailed description of the method is given in *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, 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. 12-564E, February 1980. The X-11 procedure was originally developed at the Bureau of the Census and had been used by the BLS to seasonally adjusted labor force series since 1973. Tests have shown that use of the X-11 ARIMA procedure, which places 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 calculated for use during the first 6 months of the year rather than for the entire year. In July of each year, BLS calculates and publishes in *Employment and Earnings* a

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 are made 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 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 (men and women under and over 20 years of age) are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. The seasonally adjusted figure for the labor force is the sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force. Because of the independent seasonal adjustment of various series, components will not necessarily add to totals.

Revised seasonally adjusted data for selected labor force series based on the experience through December 1982, new seasonal adjustment factors to be used to calculate the overall unemployment rate for the first 6 months of 1983, and a description of the current seasonal adjustment methodology are published in the January 1983 issue of *Employment and Earnings*. Revised seasonally adjusted data covering the 1978-82 revision period for a broad range of labor force series appear in the February 1983 issue of this publication. Many additional series, which are either components or aggregates of the series presented, are available from 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 1983. 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 nonsupervisory 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. These failed or unsatisfactory seasonally adjusted series are used in the aggregation to broader level seasonally adjusted series

Prior to June 1983, seasonal factors for Federal Government employment were derived from unadjusted data which excluded Christmas temporary workers employed by the Postal Service. In earlier years the number of these workers were substantial, and at times varied greatly from year to year, based on administrative decisions of the Postal Service. Hence, it was considered desirable to exclude this group from the unadjusted data upon which the seasonal factors were based. In the past several years, the number of these workers have decreased to the point where their presence has no impact on seasonal adjustment. Beginning with the release of revised seasonal factors in June 1983, Christmas temporary Postal workers are not excluded from the calculation of seasonal factors for Federal Government employees. This change affects the seasonally adjusted Federal Government series from January 1978 forward. Temporary census takers for the 1980 decennial census will continue to be removed prior to the calculation of seasonal factors for Federal Government employment. The revised seasonally adjusted series for the establishment data reflect experience through March 1983. Seasonal factors to be used for current adjustment appear in the June 1983 issue of *Employment and Earnings*.

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