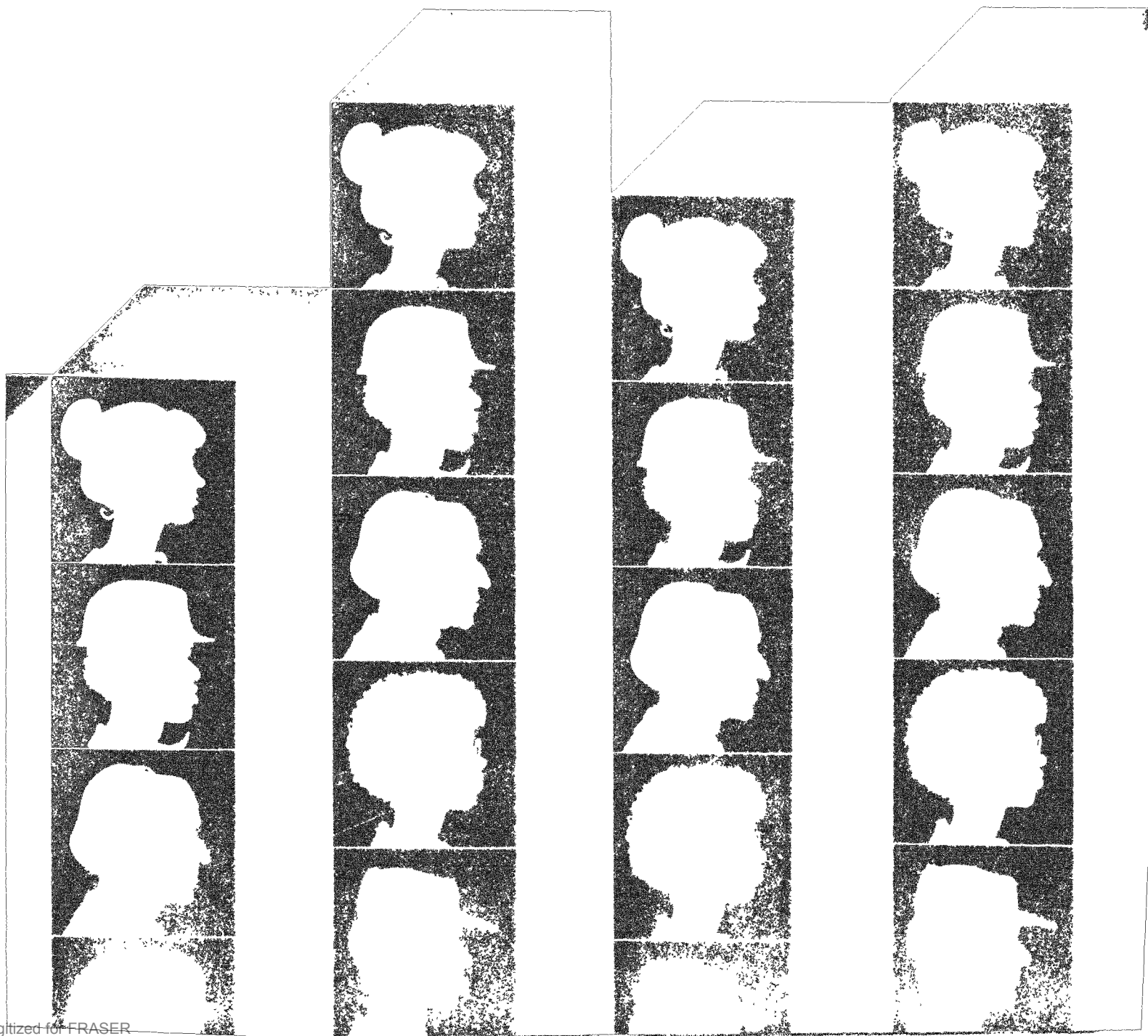


EMPLOYMENT AND EARNINGS

August 1987

U.S. Department of Labor
Bureau of Labor Statistics





U.S. DEPARTMENT OF LABOR

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BUREAU OF LABOR STATISTICS

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Calendar of Features

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

Household data

Annual averages	Jan.
Union affiliation	Jan.

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

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

State and area labor force data

Annual averages	May
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¹ The latest supplement was published in July 1987.

Employment and Earnings

Vol. 34 No. 8 August 1987

Editors: Gloria Peterson Green, Rosalie K. Epstein

Contents

	<i>Page</i>
List of statistical tables	2
Employment and unemployment developments, July 1987 .	4
Statistical tables:	
Not seasonally adjusted—	
Household data	9
Establishment data:	
Employment	44
Hours and earnings	79
State and area labor force data	112
Seasonally adjusted—	
Household data	36
Establishment data:	
Employment	56
Hours and earnings	101
Productivity data	109
Explanatory notes	117

MONTHLY HOUSEHOLD DATA

Page

Employment Status

A- 1.	Employment status of the noninstitutional population 16 years and over, 1953 to date	6
A- 2.	Employment status of the noninstitutional population 16 years and over by sex, 1976 to date	7
A- 3.	Employment status of the civilian noninstitutional population 16 years and over, 1953 to date	8
A- 4.	Employment status of the civilian noninstitutional population by age, sex, and race	9
A- 5.	Employment status of the black-and-other civilian noninstitutional population by sex and age	12
A- 6.	Employment status of the civilian noninstitutional population by race, sex, and age	13
A- 7.	Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, years of school completed, sex, race, and Hispanic origin	14
A- 8.	Employment status of male Vietnam-era veterans and nonveterans by age	16
A- 9.	Employed and unemployed full-and part-time workers by sex, age, and race	17
A-10.	Employment status of persons in families by family relationship	18

Characteristics of the Unemployed

A-11.	Unemployed persons by marital status, race, age, and sex	19
A-12.	Unemployed persons by occupation and sex	20
A-13.	Unemployed persons by industry and sex	21
A-14.	Unemployed persons by reason for unemployment, sex, and race	22
A-15.	Unemployed persons by reason for unemployment, sex, age, and duration of unemployment	23
A-16.	Unemployed persons by duration of unemployment	23
A-17.	Unemployed persons by sex, age, race, marital status, and duration of unemployment	24
A-18.	Unemployed persons by occupation, industry, and duration of unemployment	25
A-19.	Unemployed jobseekers by sex, age, race, and jobsearch methods used	26
A-20.	Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used	26

Characteristics of the Employed

A-21.	Employed civilians in agriculture and nonagricultural industries by age and sex	27
A-22.	Employed civilians by occupation, sex, and age	28
A-23.	Employed civilians by occupation, race, and sex	29
A-24.	Employed civilians by age, sex, and class of worker	30
A-25.	Employed civilians by industry and occupation	31
A-26.	Employed civilians with a job but not at work by reason, sex, and pay status	31
A-27.	Persons at work by hours of work and type of industry	32
A-28.	Persons at work 1 to 34 hours by reason for working less than 35 hours, type of industry, and usual status	32
A-29.	Persons at work in nonagricultural industries by class of worker and full- or part-time status	33
A-30.	Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status	34
A-31.	Persons at work in nonfarm occupations by sex and full- or part-time status	35

Seasonally Adjusted Employment and Unemployment Data

A-32.	Employment status of the noninstitutional population, including Armed Forces stationed in the United States, by sex, seasonally adjusted	36
A-33.	Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted	37
A-34.	Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted	38
A-35.	Employed civilians by selected social and economic categories, seasonally adjusted	39
A-36.	Employed civilians by sex and age, seasonally adjusted	40
A-37.	Unemployed persons by sex and age, seasonally adjusted	40
A-38.	Unemployment rates by sex and age, seasonally adjusted	41
A-39.	Selected unemployment indicators, seasonally adjusted	41
A-40.	Unemployed persons by duration of unemployment, seasonally adjusted	42
A-41.	Unemployed persons by reason for unemployment, seasonally adjusted	42

MONTHLY ESTABLISHMENT DATA

Page

Employment—National

B- 1.	Employees on nonagricultural payrolls by major industry, 1935 to date .	43
B- 2.	Employees on nonagricultural payrolls by detailed industry	44
B- 3.	Women employees on nonagricultural payrolls by major industry and manufacturing group .	55
B- 4.	Employees on nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	56
B- 5.	Women employees on nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	57
B- 6.	Production or nonsupervisory workers on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	58
B- 7.	Indexes of diffusion: Percent of industries in which employment increased, seasonally adjusted .	59

Employment—States and Areas

B- 8.	Employees on nonagricultural payrolls in States and selected areas by major industry .	60
-------	--	----

Hours and Earnings—National

C- 1.	Average hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls by major industry, 1964 to date	79
C- 2.	Average hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls by detailed industry .	82
C- 2a.	Average hourly earnings in aircraft manufacturing	98
C- 3.	Average hourly earnings, excluding overtime of production workers on manufacturing payrolls .	99
C- 4.	Average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls by major industry, in current and constant (1977) dollars	100
C- 5.	Average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	101
C- 6.	Indexes of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted .	102
C- 7.	The Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted .	103

Hours and Earnings—States and Areas

C- 8.	Average hours and earnings of production workers on manufacturing payrolls in States and selected areas .	104
-------	---	-----

PRODUCTIVITY DATA

C- 9.	Hours of wage and salary workers in nonagricultural establishments by major industry, seasonally adjusted	109
C-10.	Indexes of productivity, hourly compensation, unit costs, and prices, seasonally adjusted . . .	110
C-11.	Percent changes from the preceding quarter and year in productivity, hourly compensation, unit costs, and prices, seasonally adjusted annual rates .	111

MONTHLY STATE AND AREA LABOR FORCE DATA

D- 1.	Labor force status by State and selected metropolitan areas .	112
-------	---	-----

Employment and Unemployment Developments, July 1987

Employment rose substantially in July, while unemployment was little changed. The overall unemployment rate was 5.9 percent, and the rate for civilian workers was 6.0 percent. Both were a full percentage point lower than a year earlier, with the improvement particularly strong since February.

Total civilian employment—as measured by the monthly survey of households—rose by 470,000 in July. The number of nonagricultural payroll jobs—as measured by the monthly survey of establishments—was up by 300,000. Over the past year, the two employment series have advanced by 2.8 and 2.5 million, respectively.

Unemployment

Both the number of unemployed persons, 7.2 million in July, and the civilian unemployment rate, 6.0 percent, were little changed from June, after seasonal adjustment. Similarly, jobless rates for adult men and women (both at 5.4 percent), teenagers (15.5 percent), whites (5.1 percent), blacks (12.6 percent), and Hispanics (7.9 percent) all showed little change between June and July. Over the past year, however, unemployment rates dropped considerably for all these worker groups. (See tables A-33 and A-34.)

The number of persons jobless for 15 weeks or more fell by about 150,000 in July to 1.9 million, the lowest level since June 1980. The average (mean) duration of unemployment fell from 14.8 weeks in June to 14.0 weeks in July. (See table A-40.)

Civilian employment and the labor force

Civilian employment rose by 470,000 in July to 112.7 million on a seasonally adjusted basis. Over the year, employment increased by 2.8 million, with adult women accounting for 1.4 million of the gain, adult men for 1.2 million, and teenagers for 200,000. (See table A-33.)

The civilian labor force increased by about 435,000 in July, after seasonal adjustment, following a drop of similar magnitude in the previous month. Prior to seasonal adjustment, very large labor force increases typically occur in the April-to-July period, as young people leave school and enter the summer job market. This often results in uneven month-to-month changes in the labor force, even after seasonal adjustment. During this year's summer expansion period,

the labor force was up about 600,000 after seasonal adjustment. (See table A-33.)

Industry payroll employment

Total nonagricultural employment rose by about 300,000 in July to 102.1 million, after seasonal adjustment. This increase followed 2 months of slow job growth in business establishments. While the service-producing sector accounted for most of the over-the-month employment increase, as it usually does, job gains were also widespread in manufacturing industries, after seasonal adjustment. (See table B-4.)

In the goods-producing sector, manufacturing employment rose by 70,000, to 19.1 million in July. This gain occurred despite an employment decline of 40,000 in motor vehicles and equipment, primarily reflecting model changeover and inventory adjustments. Construction employment was unchanged in July and has experienced little movement, on a seasonally adjusted basis, since January. The number of jobs in mining and its oil and gas extraction component edged up, continuing a recent trend of small employment gains.

In the service-producing sector, the services industry rose by 80,000 in July, paced by a 35,000 gain in its health services component. Employment in retail trade advanced by 60,000, following 2 months of little change. The finance, insurance, and real estate industry continued to expand, gaining 20,000 jobs in July.

Weekly hours

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls edged down 0.1 hour in July to 34.7 hours, seasonally adjusted. Manufacturing hours remained at very high levels. The workweek was at 41.0 hours for the third month in a row, and factory overtime edged back up to 3.8 hours. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls increased 0.3 percent to 120.3 (1977=100), seasonally adjusted. Reflecting July's employment gains, the manufacturing index rose by 0.5 percent to 93.7. (See table C-6.)

Hourly and weekly earnings

Average hourly earnings and average weekly earnings

were little changed on a seasonally adjusted basis in July. Prior to seasonal adjustment, hourly earnings decreased by 1 cent to \$8.91, and weekly earnings were down 35 cents to \$311.85. (See tables C-1 and C-7.)

The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 173.2 (1977=100)

in July, seasonally adjusted, an increase of 0.2 percent from June. For the 12 months ended in July, the increase was 2.4 percent. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements—fluctuations in manufacturing overtime and interindustry employment shifts. In dollars of constant purchasing power, the HEI decreased 1.4 percent during the 12-month period ended in June. (See table C-7.)

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
August	September 4	November	December 4
September	October 2	December	January 8
October	November 6	January	February 5

**HOUSEHOLD DATA
HISTORICAL**

A-1. Employment status of the noninstitutional population 16 years and over, 1953 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												
1953 ¹	109,287	65,246	59.7	63,410	2,231	61,179	6,260	54,919	1,834	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	44,678	
1955	111,747	67,087	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	6,283	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	1,847	63,036	5,586	57,450	4,602	6.6	46,088	
1959	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960	
1960 ¹	119,106	71,489	60.0	67,639	1,861	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 ²	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	4,687	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	1,946	71,088	4,361	66,726	3,366	4.4	52,058	
1966	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,288	
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 ²	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091	
1973 ¹	148,870	91,203	61.3	86,838	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	8.3	59,377	
1976	157,818	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991	
1977	160,689	100,665	62.6	93,673	1,656	92,017	3,283	88,734	6,991	6.9	60,025	
1978 ²	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659	
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	60,806	
1981	171,775	110,315	64.2	102,042	1,645	100,397	3,368	97,030	8,273	7.5	61,460	
1982	173,939	111,872	64.3	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067	
1983	175,891	113,226	64.4	102,510	1,676	100,834	3,383	97,450	10,717	9.5	62,665	
1984	178,080	115,241	64.7	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,839	
1985	179,912	117,167	65.1	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744	
1986 ²	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752	
Monthly data, seasonally adjusted²												
1986:												
July	182,354	119,789	65.7	111,559	1,672	109,887	3,124	106,763	8,230	6.9	62,565	
August	182,525	119,821	65.6	111,764	1,697	110,067	3,057	107,010	8,057	6.7	62,704	
September	182,713	119,988	65.7	111,703	1,716	109,987	3,142	106,845	8,285	6.9	62,725	
October	182,935	120,163	65.7	111,941	1,749	110,192	3,162	107,030	8,222	6.8	62,772	
November	183,114	120,426	65.8	112,183	1,751	110,432	3,215	107,217	8,243	6.8	62,688	
December	183,297	120,336	65.7	112,387	1,750	110,637	3,161	107,476	7,949	6.6	62,961	
1987:												
January	183,575	120,782	65.8	112,759	1,748	111,011	3,145	107,866	8,023	6.6	62,793	
February	183,738	121,089	65.9	113,122	1,740	111,382	3,236	108,146	7,967	6.6	62,649	
March	183,915	120,958	65.8	113,104	1,736	111,368	3,284	108,084	7,854	6.5	62,957	
April	184,079	121,070	65.8	113,570	1,735	111,835	3,290	108,545	7,500	6.2	63,009	
May	184,259	121,719	66.1	114,173	1,726	112,447	3,335	109,112	7,546	6.2	62,540	
June	184,421	121,235	65.7	113,975	1,718	112,257	3,178	109,079	7,260	6.0	63,187	
July	184,605	121,672	65.9	114,447	1,720	112,727	3,219	109,508	7,224	5.9	62,933	

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.

NOTE: Revisions of seasonally adjusted monthly and quarterly data (shown in tables A-1 through A-3 and A-32 through A-53) for the most recent 5-year period are made at the end of each calendar year.

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1976 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	Nonagricultural industries				
Annual averages												
MEN												
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	1,563	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	77.8	58,665	1,479	57,186	2,709	54,477	4,267	6.8	17,945	
1981	82,023	63,486	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537	
1982	83,052	63,979	77.0	57,800	1,529	56,271	2,736	53,534	6,179	9.7	19,073	
1983	84,064	64,580	76.8	58,320	1,533	56,787	2,704	54,083	6,260	9.7	19,484	
1984	85,156	65,386	76.8	60,642	1,551	59,091	2,668	56,423	4,744	7.3	19,771	
1985	86,025	65,967	76.7	61,447	1,556	59,891	2,535	57,356	4,521	6.9	20,058	
1986 ¹	87,349	66,973	76.7	62,443	1,551	60,892	2,511	58,381	4,530	6.8	20,376	
Monthly data, seasonally adjusted²												
1986:												
July	87,373	66,968	76.6	62,402	1,518	60,884	2,486	58,398	4,566	6.8	20,405	
August	87,460	66,911	76.5	62,483	1,541	60,942	2,397	58,545	4,428	6.6	20,549	
September	87,556	67,128	76.7	62,528	1,560	60,968	2,495	58,473	4,600	6.9	20,428	
October	87,682	67,130	76.6	62,565	1,590	60,975	2,513	58,462	4,565	6.8	20,552	
November	87,773	67,407	76.8	62,833	1,592	61,241	2,506	58,735	4,574	6.8	20,366	
December	87,868	67,425	76.7	62,986	1,593	61,393	2,489	58,904	4,439	6.6	20,443	
1987:												
January	88,020	67,672	76.9	63,187	1,591	61,596	2,474	59,123	4,484	6.6	20,348	
February	88,099	67,764	76.9	63,335	1,584	61,751	2,544	59,207	4,429	6.5	20,335	
March	88,186	67,644	76.7	63,282	1,575	61,707	2,639	59,068	4,362	6.4	20,542	
April	88,271	67,603	76.6	63,417	1,575	61,842	2,664	59,178	4,186	6.2	20,668	
May	88,361	67,816	76.7	63,562	1,566	61,996	2,653	59,343	4,254	6.3	20,545	
June	88,442	67,556	76.4	63,471	1,559	61,912	2,521	59,391	4,085	6.0	20,886	
July	88,534	67,656	76.4	63,715	1,561	62,154	2,556	59,597	3,941	5.8	20,878	
Annual averages												
WOMEN												
1976	82,476	39,069	47.4	35,701	86	35,615	588	35,027	3,369	8.6	43,406	
1977	83,932	40,705	48.5	37,381	92	37,289	612	36,677	3,324	8.2	43,227	
1978 ¹	85,434	42,731	50.0	39,669	100	39,569	669	38,900	3,061	7.2	42,703	
1979	86,951	44,343	51.0	41,325	108	41,217	661	40,556	3,018	6.8	42,608	
1980	88,472	45,611	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,861	
1981	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922	
1982	90,887	47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993	
1983	91,827	48,646	53.0	44,190	143	44,047	680	43,367	4,457	9.2	43,181	
1984	92,924	49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,068	
1985	93,886	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,686	
1986 ¹	94,944	52,568	55.4	48,861	155	48,706	652	48,054	3,707	7.1	42,376	
Monthly data, seasonally adjusted²												
1986:												
July	94,981	52,821	55.6	49,157	154	49,003	638	48,365	3,664	6.9	42,160	
August	95,065	52,910	55.7	49,281	156	49,125	660	48,465	3,629	6.9	42,155	
September	95,156	52,860	55.6	49,175	156	49,019	647	48,372	3,685	7.0	42,296	
October	95,253	53,033	55.7	49,376	159	49,217	649	48,568	3,657	6.9	42,220	
November	95,341	53,019	55.6	49,350	159	49,191	709	48,482	3,669	6.9	42,322	
December	95,429	52,911	55.4	49,401	157	49,244	672	48,572	3,510	6.6	42,518	
1987:												
January	95,556	53,110	55.6	49,572	157	49,415	671	48,744	3,538	6.7	42,446	
February	95,639	53,325	55.8	49,787	156	49,631	692	48,939	3,538	6.6	42,314	
March	95,729	53,314	55.7	49,822	161	49,661	645	49,016	3,492	6.6	42,415	
April	95,808	53,467	55.8	50,153	160	49,993	626	49,367	3,314	6.2	42,341	
May	95,898	53,903	56.2	50,611	160	50,451	681	49,769	3,292	6.1	41,995	
June	95,979	53,679	55.9	50,504	159	50,345	657	49,688	3,175	5.9	42,300	
July	96,071	54,016	56.2	50,733	159	50,574	663	49,911	3,283	6.1	42,055	

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
HISTORICAL**

A-3. Employment status of the civilian noninstitutional population 16 years and over, 1953 to date

(Numbers in thousands)

Year and month	Civilian noninstitutional population	Civilian labor force				Unemployment rates		
		Total	Percent of population	Employed	Unemployed	Total	Men	Women
Annual averages								
1953 ¹	107,056	63,015	58.9	61,179	1,834	2.9	2.8	3.3
1954	108,321	63,643	58.8	60,109	3,532	5.5	5.3	6.0
1955	109,683	65,023	59.3	62,170	2,852	4.4	4.2	4.9
1956	110,954	66,552	60.0	63,799	2,750	4.1	3.8	4.8
1957	112,265	66,929	59.6	64,071	2,859	4.3	4.1	4.7
1958	113,727	67,639	59.5	63,036	4,602	6.8	6.8	6.8
1959	115,329	68,369	59.3	64,630	3,740	5.5	5.2	5.9
1960 ¹	117,245	69,628	59.4	65,778	3,852	5.5	5.4	5.9
1961	118,771	70,459	59.3	65,746	4,714	6.7	6.4	7.2
1962 ¹	120,153	70,614	58.8	66,702	3,911	5.5	5.2	6.2
1963	122,416	71,833	58.7	67,762	4,070	5.7	5.2	6.5
1964	124,485	73,091	58.7	69,305	3,786	5.2	4.6	6.2
1965	126,513	74,455	58.9	71,088	3,366	4.5	4.0	5.5
1966	128,058	75,770	59.2	72,895	2,875	3.8	3.2	4.8
1967	129,874	77,347	59.6	74,372	2,975	3.8	3.1	5.2
1968	132,028	78,737	59.6	75,920	2,817	3.6	2.9	4.8
1969	134,335	80,734	60.1	77,902	2,832	3.5	2.8	4.7
1970	137,085	82,771	60.4	78,678	4,093	4.9	4.4	5.9
1971	140,216	84,382	60.2	79,367	5,016	5.9	5.3	6.9
1972 ¹	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 ¹	147,096	89,429	60.8	85,064	4,365	4.9	4.2	6.0
1974	150,120	91,949	61.3	86,794	5,156	5.6	4.9	6.7
1975	153,153	93,775	61.2	85,846	7,929	8.5	7.9	9.3
1976	156,150	96,158	61.6	88,752	7,406	7.7	7.1	8.6
1977	159,033	99,009	62.3	92,017	6,991	7.1	6.3	8.2
1978 ¹	161,910	102,251	63.2	96,048	6,202	6.1	5.3	7.2
1979	164,863	104,962	63.7	98,824	6,137	5.8	5.1	6.8
1980	167,745	106,940	63.8	99,303	7,637	7.1	6.9	7.4
1981	170,130	108,670	63.9	100,397	8,273	7.6	7.4	7.9
1982	172,271	110,204	64.0	99,526	10,678	9.7	9.9	9.4
1983	174,215	111,550	64.0	100,834	10,717	9.6	9.9	9.2
1984	176,383	113,544	64.4	105,005	8,539	7.5	7.4	7.6
1985	178,206	115,461	64.8	107,150	8,312	7.2	7.0	7.4
1986 ¹	180,587	117,834	65.3	109,597	8,237	7.0	6.9	7.1
Monthly data, seasonally adjusted²								
1986:								
July	180,682	118,117	65.4	109,887	8,230	7.0	7.0	7.0
August	180,828	118,124	65.3	110,067	8,057	6.8	6.8	6.9
September	180,997	118,272	65.3	109,987	8,285	7.0	7.0	7.0
October	181,186	118,414	65.4	110,192	8,222	6.9	7.0	6.9
November	181,363	118,675	65.4	110,432	8,243	6.9	6.9	6.9
December	181,547	118,586	65.3	110,637	7,949	6.7	6.7	6.7
1987:								
January	181,827	119,034	65.5	111,011	8,023	6.7	6.8	6.7
February	181,998	119,349	65.6	111,382	7,967	6.7	6.7	6.7
March	182,179	119,222	65.4	111,368	7,854	6.6	6.6	6.6
April	182,344	119,335	65.4	111,835	7,500	6.3	6.3	6.2
May	182,533	119,993	65.7	112,447	7,546	6.3	6.4	6.1
June	182,703	119,517	65.4	112,257	7,260	6.1	6.2	5.9
July	182,885	119,952	65.6	112,727	7,224	6.0	6.0	6.1

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 figures are not adjusted for seasonal variation.

A-4. Employment status of the civilian noninstitutional population by age, sex, and race

(Numbers in thousands)

Age, sex, and race	July 1987										
	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	182,885	122,105	66.8	114,652	7,453	6.1	60,779	29,054	2,169	3,099	26,457
16 to 19 years	14,628	9,896	67.6	8,383	1,513	15.3	4,732	677	957	28	3,071
16 to 17 years	7,549	4,506	59.7	3,737	769	17.1	3,043	321	573	12	2,137
18 to 19 years	7,080	5,390	76.1	4,646	744	13.8	1,690	355	384	15	935
20 to 24 years	18,965	15,719	82.9	14,226	1,493	9.5	3,245	1,648	533	102	963
25 to 54 years	99,344	81,618	82.2	77,607	4,012	4.9	17,725	12,314	667	1,131	3,613
25 to 34 years	42,333	35,268	83.3	33,224	2,043	5.8	7,066	5,137	442	269	1,217
25 to 29 years	21,416	17,793	83.1	16,695	1,098	6.2	3,624	2,546	270	150	658
30 to 34 years	20,917	17,475	83.5	16,529	946	5.4	3,442	2,591	172	119	560
35 to 44 years	33,832	28,268	83.6	26,997	1,271	4.5	5,564	3,847	193	374	1,150
35 to 39 years	18,454	15,367	83.3	14,645	722	4.7	3,087	2,214	131	178	562
40 to 44 years	15,378	12,901	83.9	12,351	550	4.3	2,477	1,632	62	196	587
45 to 54 years	23,178	18,083	78.0	17,386	697	3.9	5,095	3,330	31	488	1,246
45 to 49 years	12,263	9,874	80.5	9,493	380	3.8	2,389	1,620	23	214	531
50 to 54 years	10,916	8,209	75.2	7,892	316	3.8	2,707	1,709	8	274	716
55 to 64 years	21,790	11,690	53.6	11,327	363	3.1	10,100	5,036	3	738	4,322
55 to 59 years	11,029	7,152	64.8	6,915	236	3.3	3,877	2,210	3	378	1,286
60 to 64 years	10,761	4,539	42.2	4,412	127	2.8	6,223	2,826	-	360	3,037
65 years and over	28,158	3,181	11.3	3,109	72	2.3	24,976	9,379	10	1,100	14,487
65 to 69 years	9,761	1,925	19.7	1,889	36	1.9	7,837	3,021	5	259	4,553
70 to 74 years	7,574	801	10.6	782	19	2.4	6,772	2,580	2	205	3,986
75 years and over	10,823	456	4.2	439	17	3.7	10,368	3,778	4	637	5,948
Men											
16 years and over	86,973	67,777	77.9	63,814	3,963	5.8	19,196	544	1,040	1,674	15,939
16 to 19 years	7,348	5,131	69.8	4,356	776	15.1	2,217	72	481	16	1,647
16 to 17 years	3,851	2,399	62.3	1,990	408	17.0	1,453	48	299	4	1,101
18 to 19 years	3,497	2,733	78.2	2,365	367	13.4	764	24	182	12	546
20 to 24 years	9,207	8,339	90.6	7,563	776	9.3	868	34	279	63	491
25 to 54 years	48,511	45,505	93.8	43,363	2,142	4.7	3,006	132	275	754	1,845
25 to 34 years	20,796	19,757	95.0	18,690	1,067	5.4	1,040	36	199	180	624
25 to 29 years	10,498	9,904	94.3	9,340	564	5.7	595	14	121	101	359
30 to 34 years	10,298	9,853	95.7	9,350	503	5.1	445	22	78	79	266
35 to 44 years	16,508	15,608	94.5	14,923	685	4.4	900	40	60	255	545
35 to 39 years	9,039	8,574	94.9	8,192	382	4.4	465	23	52	127	263
40 to 44 years	7,469	7,034	94.2	6,730	304	4.3	435	17	8	128	282
45 to 54 years	11,207	10,141	90.5	9,751	390	3.8	1,066	55	16	319	675
45 to 49 years	5,947	5,491	92.3	5,288	202	3.7	456	25	9	151	271
50 to 54 years	5,260	4,650	88.4	4,463	187	4.0	610	30	7	168	405
55 to 64 years	10,245	6,884	67.2	6,659	225	3.3	3,361	80	2	426	2,853
55 to 59 years	5,242	4,191	79.9	4,053	138	3.3	1,051	39	2	213	798
60 to 64 years	5,003	2,693	53.8	2,607	87	3.2	2,310	42	2	213	2,055
65 years and over	11,661	1,917	16.4	1,872	45	2.3	9,744	225	3	415	9,102
65 to 69 years	4,426	1,112	25.1	1,090	22	1.9	3,315	84	1	132	3,098
70 to 74 years	3,254	504	15.5	488	16	3.2	2,749	62	84	2,603	
75 years and over	3,981	301	7.6	294	7	2.2	3,681	79	2	199	3,401
Women											
16 years and over	95,912	54,329	56.6	50,839	3,490	6.4	41,583	28,510	1,130	1,425	10,518
16 to 19 years	7,280	4,764	65.4	4,027	737	15.5	2,516	604	475	12	1,424
16 to 17 years	3,698	2,107	57.0	1,747	360	17.1	1,590	273	274	8	1,035
18 to 19 years	3,583	2,657	74.2	2,280	377	14.2	925	331	202	4	389
20 to 24 years	9,757	7,380	75.6	6,663	717	9.7	2,378	1,613	254	39	471
25 to 54 years	50,833	36,113	71.0	34,243	1,871	5.2	14,719	12,182	392	377	1,768
25 to 34 years	21,537	15,511	72.0	14,534	977	6.3	6,026	5,101	243	89	593
25 to 29 years	10,918	7,889	72.3	7,355	534	6.8	3,029	2,532	149	49	299
30 to 34 years	10,619	7,622	71.8	7,179	443	5.8	2,997	2,569	94	40	294
35 to 44 years	17,324	12,660	73.1	12,074	586	4.6	4,664	3,807	133	119	604
35 to 39 years	9,415	6,793	72.2	6,453	340	5.0	2,622	2,192	79	51	299
40 to 44 years	7,909	5,867	74.2	5,621	246	4.2	2,042	1,615	54	68	305
45 to 54 years	11,972	7,942	66.3	7,634	308	3.9	4,030	3,274	15	169	571
45 to 49 years	6,316	4,383	69.4	4,205	178	4.1	1,933	1,585	14	63	260
50 to 54 years	5,656	3,559	62.9	3,429	129	3.6	2,097	1,679	1	106	311
55 to 64 years	11,545	4,806	41.6	4,668	138	2.9	6,739	4,956	1	312	1,469
55 to 59 years	5,787	2,961	51.2	2,863	98	3.3	2,826	2,172	1	165	488
60 to 64 years	5,758	1,845	32.0	1,805	40	2.2	3,913	2,784	147	982	
65 years and over	16,497	1,265	7.7	1,237	27	2.2	15,232	9,154	7	685	5,385
65 to 69 years	5,335	813	15.2	799	14	1.8	4,522	2,937	4	127	1,455
70 to 74 years	4,320	297	6.9	294	3	1.0	4,023	2,518	2	121	1,383
75 years and over	6,842	155	2.3	145	10	6.7	6,687	3,699	2	438	2,547

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-4. Employment status of the civilian noninstitutional population by age, sex, and race—Continued

(Numbers in thousands)

Age, sex, and race	July 1987										
	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											
16 years and over	157,058	104,987	66.8	99,609	5,378	5.1	52,071	25,407	1,521	2,425	22,718
16 to 19 years	11,968	8,436	70.5	7,384	1,051	12.5	3,533	489	653	23	2,367
16 to 17 years	6,151	3,825	62.2	3,279	546	14.3	2,326	209	403	11	1,704
18 to 19 years	5,818	4,611	79.3	4,106	505	11.0	1,207	280	250	13	663
20 to 24 years	15,784	13,382	84.8	12,310	1,072	8.0	2,402	1,296	396	56	655
25 to 54 years	84,742	69,976	82.6	67,067	2,910	4.2	14,765	10,554	462	876	2,875
25 to 34 years	35,698	29,880	83.7	28,468	1,413	4.7	5,817	4,368	299	215	935
25 to 29 years	18,010	15,105	83.9	14,363	742	4.9	2,905	2,132	192	110	470
30 to 34 years	17,688	14,775	83.5	14,105	670	4.5	2,913	2,235	107	105	465
35 to 44 years	29,107	24,387	83.8	23,449	938	3.8	4,720	3,359	136	302	923
35 to 39 years	15,745	13,121	83.3	12,605	516	6.3	2,623	1,960	87	157	443
40 to 44 years	13,362	11,266	84.3	10,844	422	3.7	2,097	1,455	49	146	481
45 to 54 years	19,938	15,710	78.8	15,151	559	3.6	4,228	2,827	27	358	1,017
45 to 49 years	10,558	8,579	81.3	8,284	293	3.4	1,979	1,389	19	153	419
50 to 54 years	9,381	7,131	76.0	6,867	265	4.1	2,249	1,459	9	204	598
55 to 64 years	19,229	10,351	53.8	10,070	281	2.7	8,878	4,494	2	573	3,810
55 to 59 years	9,667	6,295	65.1	6,106	189	3.0	3,372	1,965	2	302	1,103
60 to 64 years	9,562	4,056	42.4	3,964	92	2.3	5,506	2,529		271	2,706
65 years and over	25,334	2,841	11.2	2,777	64	2.2	22,493	8,575	8	899	13,012
65 to 69 years	8,707	1,713	19.7	1,679	34	2.0	6,995	2,706	5	202	4,082
70 to 74 years	6,817	714	10.5	699	14	2.0	6,103	2,374	1	172	3,560
75 years and over	9,810	415	4.2	399	16	3.9	9,395	3,495	2	525	5,370
Men											
16 years and over	75,246	58,994	78.4	56,089	2,906	4.9	16,251	411	761	1,324	13,754
16 to 19 years	6,034	4,369	72.4	3,839	531	12.1	1,664	46	342	11	1,266
16 to 17 years	3,146	2,024	64.3	1,729	296	14.6	1,122	31	205	2	884
18 to 19 years	2,887	2,345	81.2	2,110	235	10.0	542	15	137	9	381
20 to 24 years	7,718	7,132	92.4	6,565	567	8.0	585	25	222	25	314
25 to 54 years	41,903	39,609	94.5	38,018	1,591	4.0	2,293	87	195	591	1,421
25 to 34 years	17,770	17,002	95.7	16,231	771	4.5	768	24	138	139	468
25 to 29 years	8,945	8,526	95.3	8,129	397	4.7	419	10	88	70	250
30 to 34 years	8,826	8,476	96.0	8,102	374	4.4	350	13	49	69	218
35 to 44 years	14,375	13,686	95.2	13,179	507	3.7	689	25	44	210	410
35 to 39 years	7,800	7,451	95.5	7,177	273	3.7	349	17	36	111	185
40 to 44 years	6,575	6,235	94.8	6,002	233	3.7	340	8	8	99	225
45 to 54 years	9,758	8,922	91.4	8,609	313	3.5	836	37	13	242	543
45 to 49 years	5,183	4,834	93.3	4,681	152	3.2	349	21	6	118	205
50 to 54 years	4,575	4,088	89.4	3,928	160	3.9	487	16	8	124	339
55 to 64 years	9,095	6,146	67.6	5,967	179	2.9	2,949	71	2	350	2,527
55 to 59 years	4,633	3,743	80.8	3,628	115	3.1	890	35	2	175	678
60 to 64 years	4,462	2,403	53.9	2,339	64	2.6	2,059	36		174	1,849
65 years and over	10,497	1,737	16.6	1,699	39	2.2	8,759	184	1	347	8,227
65 to 69 years	3,970	1,001	25.2	981	19	1.9	2,970	60	1	102	2,806
70 to 74 years	2,930	459	15.7	446	12	2.6	2,471	56		75	2,341
75 years and over	3,597	278	7.7	271	7	2.4	3,319	67		171	3,080
Women											
16 years and over	81,812	45,993	56.2	43,521	2,472	5.4	35,820	24,995	759	1,101	8,964
16 to 19 years	5,935	4,066	68.5	3,545	521	12.8	1,869	443	312	12	1,102
16 to 17 years	3,005	1,800	59.9	1,550	251	13.9	1,204	178	198	8	820
18 to 19 years	2,930	2,266	77.3	1,996	270	11.9	664	265	114	4	282
20 to 24 years	8,066	6,250	77.5	5,745	505	8.1	1,817	1,271	174	30	341
25 to 54 years	42,839	30,367	70.9	29,049	1,319	4.3	12,472	10,467	267	285	1,454
25 to 34 years	17,927	12,878	71.8	12,237	641	5.0	5,049	4,344	162	76	467
25 to 29 years	9,065	6,579	72.6	6,234	345	5.3	2,486	2,122	104	40	220
30 to 34 years	8,862	6,299	71.1	6,003	296	4.7	2,563	2,222	58	36	247
35 to 44 years	14,732	10,701	72.6	10,270	431	4.0	4,031	3,333	92	93	514
35 to 39 years	7,945	5,670	71.4	5,428	243	4.3	2,274	1,920	51	46	258
40 to 44 years	6,787	5,031	74.1	4,842	189	3.8	1,757	1,413	41	47	256
45 to 54 years	10,180	6,788	66.7	6,542	246	3.6	3,392	2,790	14	116	473
45 to 49 years	5,375	3,745	69.7	3,603	141	3.8	1,630	1,368	13	35	214
50 to 54 years	4,806	3,043	63.3	2,939	105	3.4	1,762	1,422	1	80	259
55 to 64 years	10,134	4,206	41.5	4,103	103	2.4	5,929	4,423		223	1,282
55 to 59 years	5,034	2,553	50.7	2,478	74	2.9	2,481	1,930		126	425
60 to 64 years	5,100	1,653	32.4	1,625	28	1.7	3,447	2,493		97	857
65 years and over	14,837	1,104	7.4	1,079	25	2.3	13,733	8,391	6	551	4,785
65 to 69 years	4,737	712	15.0	698	15	2.1	4,025	2,646	4	100	1,276
70 to 74 years	3,887	255	6.6	253	2	.8	3,632	2,318	1	97	1,219
75 years and over	6,213	137	2.2	128	9	6.8	6,076	3,428	2	354	2,290

HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED

A-4. Employment status of the civilian noninstitutional population by age, sex, and race—Continued

(Numbers in thousands)

Age, sex, and race	July 1987										
	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	20,373	13,468	66.1	11,645	1,823	13.5	6,905	2,816	436	605	3,050
16 to 19 years	2,168	1,205	55.6	794	411	34.1	983	160	229	4	570
16 to 17 years	1,129	548	48.6	354	194	35.4	580	99	139	2	341
18 to 19 years	1,040	657	63.2	440	217	33.0	383	61	90	3	229
20 to 24 years	2,577	1,914	74.3	1,539	376	19.6	663	286	89	43	245
25 to 54 years	11,175	8,999	80.5	8,032	967	10.7	2,176	1,257	116	216	589
25 to 34 years	5,146	4,234	82.3	3,669	565	13.3	911	558	77	45	232
25 to 29 years	2,656	2,114	79.6	1,795	320	15.1	542	304	46	35	157
30 to 34 years	2,489	2,120	85.2	1,874	245	11.6	369	254	31	9	74
35 to 44 years	3,568	2,959	82.9	2,683	276	9.3	610	327	36	65	183
35 to 39 years	2,050	1,721	84.0	1,545	176	10.2	330	182	23	17	106
40 to 44 years	1,519	1,238	81.5	1,137	100	8.1	280	145	12	47	77
45 to 54 years	2,461	1,806	73.4	1,880	126	7.0	655	372	3	106	174
45 to 49 years	1,306	990	75.8	911	79	8.0	316	182	3	45	85
50 to 54 years	1,156	817	70.7	769	47	5.8	339	189		61	89
55 to 64 years	2,098	1,068	50.9	1,006	62	5.8	1,030	442	1	151	436
55 to 59 years	1,099	682	62.1	645	37	5.4	417	200	1	70	146
60 to 64 years	999	386	38.6	360	25	6.6	613	242		81	291
65 years and over	2,354	281	12.0	275	7	2.4	2,073	671	1	191	1,210
65 to 69 years	859	164	19.1	164	1	.6	694	261		55	379
70 years and over	1,495	117	7.8	110	7	6.0	1,379	410	1	136	831
Men											
16 years and over	9,140	6,797	74.4	5,884	912	13.4	2,343	103	166	307	1,772
16 to 19 years	1,068	637	59.6	421	216	33.9	431	21	104	4	302
16 to 17 years	569	308	54.1	206	102	33.0	261	14	75	2	171
18 to 19 years	499	329	66.0	215	115	34.8	170	7	29	3	131
20 to 24 years	1,173	968	82.5	787	181	18.7	205	2	29	37	138
25 to 54 years	5,005	4,456	89.0	3,982	474	10.6	550	37	33	135	347
25 to 34 years	2,324	2,129	91.6	1,868	261	12.3	195	11	22	34	130
25 to 29 years	1,200	1,063	88.6	917	147	13.8	137	4	14	27	92
30 to 34 years	1,124	1,066	94.8	951	114	10.7	58	7	8	6	37
35 to 44 years	1,588	1,417	89.2	1,272	145	10.2	171	10	10	40	113
35 to 39 years	913	820	89.8	732	88	10.7	93	4	9	13	66
40 to 44 years	876	597	68.4	540	57	9.5	78	6		26	47
45 to 54 years	1,093	909	83.2	841	68	7.5	183	18	1	61	104
45 to 49 years	580	494	85.2	451	43	8.8	86	3	2	26	55
50 to 54 years	513	416	81.0	390	25	6.0	97	13		35	49
55 to 64 years	944	593	62.8	557	36	6.1	351	8		64	280
55 to 59 years	497	363	73.0	345	18	5.0	134	2		33	100
60 to 64 years	448	230	51.4	212	18	7.9	217	6		32	181
65 years and over	948	142	15.0	138	5	3.3	806	35		67	705
65 to 69 years	374	82	22.1	81	1	1.2	291	20		30	242
70 years and over	574	60	10.4	56	4	(¹)	515	15		37	463
Women											
16 years and over	11,233	6,671	59.4	5,761	911	13.6	4,562	2,714	270	299	1,279
16 to 19 years	1,100	568	51.6	373	195	34.3	532	139	125	-	268
16 to 17 years	560	240	43.0	148	92	38.4	319	85	64		170
18 to 19 years	541	327	60.6	225	102	31.2	213	54	61		98
20 to 24 years	1,404	946	67.4	751	195	20.6	458	284	60	6	107
25 to 54 years	6,170	4,543	73.6	4,050	493	10.9	1,626	1,220	83	81	242
25 to 34 years	2,822	2,105	74.6	1,801	304	14.4	716	547	55	11	102
25 to 29 years	1,456	1,051	72.2	878	173	16.5	405	300	32	8	65
30 to 34 years	1,365	1,054	77.2	923	131	12.4	311	247	23	3	37
35 to 44 years	1,980	1,541	77.9	1,410	131	8.5	438	317	28	25	70
35 to 39 years	1,137	901	79.2	813	88	9.8	237	178	14	4	40
40 to 44 years	843	841	76.1	597	43	6.8	202	139	12	21	30
45 to 54 years	1,368	896	65.5	839	58	6.4	472	356	2	45	70
45 to 49 years	726	496	68.3	460	36	7.2	230	179	1	19	30
50 to 54 years	643	401	62.3	379	22	5.4	242	176		26	40
55 to 64 years	1,154	475	41.2	449	26	5.5	678	434	1	87	156
55 to 59 years	602	319	53.0	300	19	5.9	283	198	1	38	46
60 to 64 years	551	158	28.3	149	7	4.7	396	236		49	110
65 years and over	1,406	139	9.9	137	2	1.6	1,267	636	1	124	505
65 to 69 years	485	82	16.9	83	-	-	403	241		25	137
70 years and over	921	57	6.2	54	3	(¹)	864	395	1	99	368

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-5. Employment status of the black-and-other civilian noninstitutional population by age and sex

(Numbers in thousands)

Age and sex	July 1987								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	25,826	17,118	66.3	15,043	307	14,736	2,076	12.1	8,708
16 to 19 years	2,660	1,460	54.9	999	36	963	462	31.6	1,200
16 to 17 years	1,398	681	48.7	459	24	435	222	32.7	717
18 to 19 years	1,262	779	61.8	540	12	528	239	30.7	483
20 to 24 years	3,180	2,337	73.5	1,916	36	1,880	421	18.0	843
25 to 54 years	14,602	11,642	79.7	10,539	182	10,358	1,103	9.5	2,960
25 to 34 years	6,636	5,387	81.2	4,757	80	4,677	631	11.7	1,248
25 to 29 years	3,407	2,688	78.9	2,333	35	2,298	355	13.2	719
30 to 34 years	3,229	1,452	45.0	2,424	45	2,379	276	19.0	530
35 to 44 years	4,726	3,881	82.1	3,548	52	3,496	333	8.6	845
35 to 39 years	2,710	2,246	82.9	2,040	32	2,009	206	9.2	464
40 to 44 years	2,015	1,635	81.1	1,508	19	1,488	127	7.8	380
45 to 54 years	3,241	2,373	73.2	2,234	49	2,185	139	5.8	867
45 to 49 years	1,705	1,295	78.0	1,209	18	1,190	87	6.7	410
50 to 54 years	1,535	1,078	70.2	1,026	30	995	52	4.8	458
55 to 64 years	2,561	1,339	52.3	1,257	35	1,222	82	6.1	1,222
55 to 59 years	1,362	856	62.9	809	21	788	47	5.5	505
60 to 64 years	1,199	483	40.3	448	14	434	35	7.3	716
65 years and over	2,824	340	12.0	332	18	314	8	2.4	2,484
65 to 69 years	1,054	212	20.1	210	9	202	2	.9	842
70 to 74 years	756	87	11.5	83	6	77	6	6.9	669
75 years and over	1,014	41	4.0	40	4	36	1	(¹)	973
Men									
16 years and over	11,727	8,782	74.9	7,725	251	7,474	1,057	12.0	2,945
16 to 19 years	1,314	782	58.0	517	30	487	245	32.2	552
16 to 17 years	705	374	53.1	261	18	243	113	30.1	331
18 to 19 years	610	388	63.8	256	12	244	132	34.1	222
20 to 24 years	1,489	1,207	81.0	998	30	967	209	17.3	282
25 to 54 years	8,609	5,896	69.2	5,345	141	5,204	551	9.3	713
25 to 34 years	3,026	2,754	91.0	2,459	67	2,392	295	10.7	272
25 to 29 years	1,554	1,378	88.7	1,211	28	1,183	167	12.1	176
30 to 34 years	1,472	1,377	93.5	1,248	39	1,209	129	9.3	96
35 to 44 years	2,134	1,922	90.1	1,744	34	1,710	178	9.3	212
35 to 39 years	1,240	1,123	90.6	1,015	25	991	108	9.6	116
40 to 44 years	894	799	89.4	729	9	719	70	8.8	95
45 to 54 years	1,449	1,219	84.1	1,142	40	1,102	77	6.3	230
45 to 49 years	764	657	86.1	607	16	591	50	7.6	107
50 to 54 years	685	562	82.0	535	23	511	27	4.9	123
55 to 64 years	1,150	738	64.2	692	31	661	46	6.3	412
55 to 59 years	609	448	73.5	425	20	405	23	5.1	161
60 to 64 years	541	290	53.6	267	12	255	23	8.0	251
65 years and over	1,164	179	15.4	173	19	154	6	3.4	985
65 to 69 years	458	111	24.3	109	9	100	2	2.2	345
70 to 74 years	323	45	13.9	42	6	36	4	(¹)	278
75 years and over	385	23	6.0	23	4	19	-	(¹)	362
Women									
16 years and over	14,099	8,338	59.1	7,318	56	7,262	1,018	12.2	5,764
16 to 19 years	1,345	698	51.9	482	6	475	217	31.0	647
16 to 17 years	693	307	44.3	197	6	191	110	35.8	386
18 to 19 years	652	391	60.0	285	-	284	107	27.3	261
20 to 24 years	1,691	1,130	66.8	918	6	913	212	18.6	561
25 to 54 years	7,993	5,748	71.9	5,194	41	5,154	552	9.6	2,247
25 to 34 years	3,610	2,633	72.9	2,297	13	2,285	336	12.7	977
25 to 29 years	1,853	1,310	70.7	1,122	7	1,115	188	14.4	543
30 to 34 years	1,757	1,323	75.3	1,176	6	1,170	147	11.1	434
35 to 44 years	2,592	1,959	75.8	1,804	18	1,786	155	7.9	633
35 to 39 years	1,470	1,123	76.4	1,025	7	1,018	96	8.7	348
40 to 44 years	1,121	836	74.8	779	10	769	57	6.8	285
45 to 54 years	1,791	1,154	64.4	1,092	10	1,083	61	5.3	637
45 to 49 years	941	638	67.8	602	2	599	37	5.8	303
50 to 54 years	850	516	60.6	491	7	484	25	4.8	335
55 to 64 years	1,411	601	42.8	565	4	561	36	5.9	810
55 to 59 years	753	408	54.2	384	2	383	24	5.8	344
60 to 64 years	658	192	29.3	181	2	178	12	6.1	466
65 years and over	1,659	181	9.7	159	-	159	2	1.4	1,499
65 to 69 years	598	101	16.9	101	-	102	-	-	497
70 to 74 years	433	42	9.7	41	-	41	2	(¹)	391
75 years and over	629	18	2.9	17	-	17	1	(¹)	611

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

A-6. 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 1986	July 1987	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987
TOTAL								
Civilian noninstitutional population	180,682	182,885	78,586	79,625	87,629	88,632	14,467	14,628
Civilian labor force	120,303	122,105	61,882	62,645	48,517	49,564	9,903	9,896
Percent of population	66.6	66.8	78.7	78.7	55.4	55.9	68.5	67.6
Employed	111,832	114,652	58,227	59,458	45,408	46,811	8,197	8,383
Agriculture	3,655	3,754	2,497	2,556	733	749	426	448
Nonagricultural industries	108,176	110,898	55,730	56,902	44,675	46,062	7,771	7,934
Unemployed	8,471	7,453	3,656	3,187	3,109	2,753	1,706	1,513
Unemployment rate	7.0	6.1	5.9	5.1	6.4	5.6	17.2	15.3
Not in labor force	60,379	60,779	16,704	16,979	39,112	39,067	4,563	4,732
White								
Civilian noninstitutional population	155,502	157,058	68,455	69,212	75,173	75,878	11,875	11,968
Civilian labor force	103,790	104,987	54,097	54,625	41,237	41,927	8,456	8,436
Percent of population	66.7	66.8	79.0	78.9	54.9	55.3	71.2	70.5
Employed	97,559	99,609	51,358	52,250	38,951	39,975	7,250	7,384
Agriculture	3,419	3,448	2,331	2,335	678	700	409	412
Nonagricultural industries	94,141	96,162	49,027	49,915	38,273	39,275	6,841	6,972
Unemployed	6,231	5,378	2,739	2,375	2,286	1,951	1,206	1,051
Unemployment rate	6.0	5.1	5.1	4.3	5.5	4.7	14.3	12.5
Not in labor force	51,712	52,071	14,358	14,587	33,936	33,951	3,419	3,533
Black								
Civilian noninstitutional population	20,002	20,373	7,917	8,072	9,954	10,133	2,131	2,168
Civilian labor force	13,041	13,468	6,015	6,159	5,829	6,104	1,197	1,205
Percent of population	65.2	66.1	76.0	76.3	58.6	60.2	56.2	55.6
Employed	11,074	11,645	5,236	5,463	5,103	5,388	735	794
Agriculture	175	229	133	166	35	32	7	30
Nonagricultural industries	10,899	11,416	5,103	5,297	5,068	5,355	728	764
Unemployed	1,967	1,823	780	696	726	716	462	411
Unemployment rate	15.1	13.5	13.0	11.3	12.4	11.7	38.6	34.1
Not in labor force	6,960	6,905	1,901	1,912	4,126	4,030	934	963

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-7. Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, years of school completed, sex, race, and Hispanic origin

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	July 1987									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	
TOTAL ENROLLED										
Total, 16 to 24 years	3,573	2,066	57.8	1,844	786	1,058	222	93	129	10.8
16 to 19 years	1,943	958	49.3	823	272	551	135	46	89	14.1
20 to 24 years	1,829	1,108	68.0	1,021	513	507	87	47	40	7.9
High school	1,232	510	41.4	414	92	322	96	33	83	18.8
College	2,341	1,556	66.5	1,430	694	736	126	80	67	8.1
Full-time students	1,473	825	56.0	752	332	420	73	34	39	8.8
Part-time students	868	732	84.3	678	362	316	54	26	28	7.4
Men, 16 to 24 years	1,722	956	55.5	864	404	460	92	35	57	9.6
16 to 19 years	929	439	47.2	382	144	238	57	15	42	12.9
20 to 24 years	793	518	65.3	482	260	222	35	20	15	6.8
High school	831	250	39.6	209	52	157	41	9	32	16.5
College	1,092	706	84.7	856	353	303	51	26	25	7.2
Full-time students	752	427	56.8	396	193	203	31	13	18	7.3
Part-time students	340	279	82.2	260	159	101	19	12	7	7.0
Women, 16 to 24 years	1,850	1,110	60.0	979	381	598	130	58	73	11.8
16 to 19 years	1,014	519	51.2	441	128	313	78	31	47	15.1
20 to 24 years	836	590	70.6	538	253	285	52	27	25	8.8
High school	601	260	43.2	205	40	166	55	24	30	21.0
College	1,249	850	68.0	774	342	432	76	34	42	8.9
Full-time students	721	397	55.1	356	139	217	41	21	21	10.4
Part-time students	528	452	85.6	418	202	216	34	13	21	7.6
White										
Total, 16 to 24 years	2,812	1,713	60.9	1,580	669	912	133	63	70	7.8
16 to 19 years	1,483	776	52.3	703	231	471	73	28	45	9.4
20 to 24 years	1,329	937	70.5	877	437	440	60	35	25	6.4
Men	1,364	780	57.2	725	336	389	55	30	25	7.1
Women	1,448	933	64.5	855	332	523	78	34	44	8.3
High school	895	382	42.6	334	65	268	48	21	27	12.8
College	1,917	1,332	69.5	1,247	603	643	85	43	42	8.4
Full-time students	1,182	702	59.4	854	285	369	48	23	25	6.8
Part-time students	735	630	85.8	593	318	275	38	20	18	6.0
Black										
Total, 16 to 24 years	566	276	48.7	199	98	102	77	25	51	27.8
16 to 19 years	366	160	43.7	101	40	62	58	16	43	36.6
20 to 24 years	201	117	58.0	98	58	40	18	10	9	15.8
Men	254	132	51.8	102	54	48	29	5	25	22.3
Women	312	144	46.3	97	43	54	47	21	27	32.8
High school	279	109	39.1	63	22	40	47	12	35	42.8
College	287	167	58.1	137	75	61	30	14	16	18.0
Full-time students	199	99	49.7	81	44	37	18	8	10	18.5
Part-time students	88	68	76.9	56	31	25	12	6	6	(²)
Hispanic origin										
Total, 16 to 24 years	397	156	39.3	139	51	88	17	10	7	10.9
16 to 19 years	253	65	25.5	58	16	42	7	1	5	(²)
20 to 24 years	144	91	63.6	81	35	46	10	9	2	11.3
Men	217	81	37.2	70	32	37	11	9	2	13.8
Women	179	75	41.9	69	19	51	6	1	4	7.7
High school	195	40	20.4	35	7	29	4	1	3	(²)
College	202	116	57.6	104	44	60	12	9	3	10.7
Full-time students	131	60	45.5	52	13	39	8	7	1	(²)
Part-time students	71	57	(²)	52	32	20	5	2	2	(²)

See footnotes at end of table.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-7. Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, years of school completed, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	July 1987									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	Percent of labor force
TOTAL NOT ENROLLED										
Total, 16 to 24 years	30,020	23,549	78.4	20,765	15,273	5,492	2,784	2,170	614	11.8
16 to 19 years	12,685	8,938	70.5	7,560	3,939	3,621	1,378	902	476	15.4
20 to 24 years	17,335	14,611	84.3	13,205	11,334	1,872	1,406	1,268	138	9.6
Less than 4 years of high school	10,487	6,710	64.0	5,409	2,922	2,487	1,300	910	391	19.4
4 years of high school	11,543	9,587	83.1	8,573	6,787	1,786	1,014	882	132	10.6
1 to 3 years of college	5,928	5,302	89.4	4,955	3,938	1,017	346	262	84	6.5
4 years of college or more	2,062	1,951	94.6	1,828	1,626	202	123	116	7	6.3
Men, 16 to 24 years	14,833	12,515	84.4	11,054	8,570	2,484	1,460	1,193	267	11.7
16 to 19 years	6,419	4,893	73.1	3,974	2,234	1,740	719	492	227	15.3
20 to 24 years	8,414	7,822	93.0	7,081	6,336	744	741	702	39	9.5
Less than 4 years of high school	5,605	4,072	72.6	3,311	2,029	1,282	761	569	192	18.7
4 years of high school	5,512	4,971	90.2	4,486	3,814	672	485	448	37	9.8
1 to 3 years of college	2,783	2,571	92.4	2,415	1,967	448	156	123	33	6.1
4 years of college or more	934	901	96.5	842	760	82	58	54	4	6.5
Women, 16 to 24 years	15,187	11,034	72.7	9,711	6,703	3,008	1,324	977	347	12.0
16 to 19 years	6,266	4,245	67.7	3,586	1,706	1,880	659	410	249	15.5
20 to 24 years	8,921	6,789	76.1	6,125	4,997	1,127	665	566	98	9.8
Less than 4 years of high school	4,882	2,638	54.0	2,098	893	1,205	540	341	199	20.5
4 years of high school	6,031	4,616	76.5	4,087	2,973	1,114	529	434	95	11.5
1 to 3 years of college	3,145	2,730	86.8	2,540	1,971	569	190	140	51	7.0
4 years of college or more	1,129	1,050	93.0	986	866	119	64	62	3	6.1
White										
Total, 16 to 24 years	24,941	20,104	80.6	18,114	13,410	4,704	1,990	1,520	470	9.9
16 to 19 years	10,486	7,659	73.0	6,681	3,528	3,154	978	621	357	12.8
20 to 24 years	14,455	12,445	86.1	11,433	9,882	1,550	1,012	899	113	8.1
Men	12,388	10,721	86.5	9,679	7,572	2,107	1,042	842	200	9.7
Women	12,554	9,383	74.7	8,435	5,838	2,597	948	678	269	10.1
Less than 4 years of high school	8,447	5,638	66.7	4,705	2,582	2,122	933	634	299	16.6
4 years of high school	9,611	8,168	85.0	7,443	5,904	1,539	726	629	97	8.9
1 to 3 years of college	5,030	4,537	90.2	4,306	3,440	866	231	163	68	5.1
4 years of college or more	1,853	1,761	95.0	1,660	1,484	177	101	95	6	5.7
Black										
Total, 16 to 24 years	4,179	2,843	68.0	2,133	1,492	641	710	592	118	25.0
16 to 19 years	1,803	1,045	58.0	693	330	363	352	257	96	33.7
20 to 24 years	2,376	1,798	75.7	1,440	1,163	278	357	335	22	19.9
Men	1,987	1,473	74.1	1,106	798	308	368	319	49	25.0
Women	2,192	1,370	62.5	1,028	895	333	342	273	69	25.0
Less than 4 years of high school	1,713	896	52.3	571	263	308	325	252	73	36.3
4 years of high school	1,624	1,203	74.1	934	739	194	269	241	29	22.4
1 to 3 years of college	709	620	87.4	517	398	118	103	88	15	16.6
4 years of college or more	133	124	93.5	112	92	21	12	11	1	9.8
Hispanic origin										
Total, 16 to 24 years	2,846	1,983	69.0	1,721	1,360	361	242	207	35	12.3
16 to 19 years	1,078	616	57.2	500	300	201	116	95	21	18.8
20 to 24 years	1,768	1,347	76.2	1,221	1,060	161	127	112	14	9.4
Men	1,447	1,193	82.4	1,059	869	190	134	117	17	11.2
Women	1,399	771	55.1	682	491	171	108	91	18	14.1
Less than 4 years of high school	1,529	920	60.2	791	616	175	129	110	19	14.0
4 years of high school	894	681	76.1	601	486	115	80	70	10	11.8
1 to 3 years of college	345	288	83.5	257	194	63	30	24	6	10.5
4 years of college or more	78	75	96.6	72	64	8	3	3	-	3.9

¹ Employed persons with a job but not at work and persons at work part time are distributed according to whether they usually work full or part time.

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

NOTE: In the summer months, the educational attainment levels of youth not enrolled in school are increased by the temporary movement of high school and

college students into that group. 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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-8. 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 1986	July 1987	Total		Employed		Unemployed			
			July 1986	July 1987	July 1986	July 1987	Number		Percent of labor force	
							July 1986	July 1987	July 1986	July 1987
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,751	7,843	7,222	7,260	6,868	6,877	354	383	4.9	5.3
30 to 44 years	6,380	6,210	6,120	5,956	5,801	5,623	319	333	5.2	5.6
30 to 34 years	1,137	915	1,085	871	990	786	95	85	8.8	9.8
35 to 39 years	3,048	2,589	2,923	2,484	2,778	2,348	145	136	5.0	5.5
40 to 44 years	2,195	2,706	2,112	2,601	2,033	2,489	79	112	3.7	4.3
45 years and over	1,371	1,633	1,102	1,304	1,067	1,254	35	50	3.2	3.8
NONVETERANS										
Total, 30 to 44 years	18,446	19,510	17,455	18,474	16,531	17,665	924	809	5.3	4.4
30 to 34 years	8,576	8,869	8,161	8,494	7,701	8,103	460	391	5.6	4.6
35 to 39 years	5,736	6,231	5,418	5,882	5,138	5,643	280	239	5.2	4.1
40 to 44 years	4,134	4,410	3,876	4,096	3,692	3,919	184	179	4.7	4.4

NOTE: Male Vietnam-era veterans are men 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 30 to 44 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

A-9. Employed and unemployed full- and part-time workers by sex, age, and race

(In thousands)

Sex, age, and race	July 1987							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules ¹	Part time for economic reasons, usually work full time	Total	Voluntary ¹	Part time for economic reasons, usually work part time		
TOTAL								
Total, 16 years and over	96,256	94,408	1,848	18,396	14,025	4,371	6,262	1,191
16 to 19 years	4,211	3,978	233	4,171	2,748	1,423	947	566
16 to 17 years	1,308	1,232	76	2,429	1,691	738	367	402
18 to 19 years	2,903	2,746	157	1,742	1,057	685	581	164
20 years and over	92,045	90,430	1,615	14,224	11,277	2,947	5,315	625
20 to 24 years	11,847	11,555	292	2,379	1,564	815	1,315	178
25 years and over	80,198	78,876	1,322	11,846	9,714	2,132	4,000	448
25 to 54 years	69,154	68,020	1,134	8,452	6,657	1,795	3,666	347
55 years and over	11,043	10,855	188	3,394	3,057	337	334	101
Men, 16 years and over	57,886	56,849	1,037	5,928	4,000	1,928	3,530	433
16 to 19 years	2,378	2,249	129	1,979	1,282	697	506	269
20 years and over	55,509	54,600	909	3,949	2,718	1,231	3,024	163
20 to 24 years	6,597	6,443	154	966	556	410	722	54
25 years and over	48,912	48,157	755	2,983	2,162	821	2,302	109
25 to 54 years	41,758	41,098	660	1,606	919	687	2,077	65
55 years and over	7,153	7,059	94	1,378	1,243	135	225	44
Women, 16 years and over	38,371	37,560	811	12,468	10,025	2,443	2,732	758
16 to 19 years	1,834	1,729	105	2,193	1,466	727	441	296
20 years and over	36,536	35,830	706	10,274	8,558	1,716	2,291	462
20 to 24 years	5,250	5,112	138	1,413	1,007	406	593	124
25 years and over	31,287	30,718	569	8,862	7,551	1,311	1,698	339
25 to 54 years	27,396	26,922	474	6,847	5,738	1,109	1,589	282
55 years and over	3,890	3,795	95	2,015	1,813	202	109	57
White								
Men, 16 years and over	51,036	50,154	882	5,053	3,502	1,551	2,598	308
16 to 19 years	2,123	2,015	108	1,716	1,127	589	344	187
20 years and over	48,913	48,139	774	3,336	2,375	961	2,254	122
20 to 24 years	5,786	5,653	133	779	451	328	528	39
25 years and over	43,128	42,486	642	2,556	1,923	633	1,725	83
25 to 54 years	36,706	36,136	570	1,312	789	523	1,545	45
55 years and over	6,423	6,351	72	1,244	1,134	110	180	38
Women, 16 years and over	32,433	31,759	674	11,089	9,115	1,974	1,879	593
16 to 19 years	1,637	1,545	92	1,909	1,291	618	306	215
20 years and over	30,796	30,214	582	9,180	7,824	1,356	1,573	378
20 to 24 years	4,534	4,418	116	1,211	885	326	406	98
25 years and over	26,261	25,795	466	7,968	6,938	1,030	1,168	280
25 to 54 years	22,855	22,468	387	6,194	5,310	884	1,088	231
55 years and over	3,407	3,327	80	1,774	1,628	146	79	49
Black								
Men, 16 years and over	5,196	5,066	130	688	378	310	815	98
16 to 19 years	209	192	17	211	122	89	149	67
20 years and over	4,986	4,873	113	477	256	221	665	31
20 to 24 years	642	626	16	145	74	71	174	7
25 years and over	4,343	4,246	97	332	182	150	491	25
25 to 54 years	3,755	3,679	76	227	98	129	457	18
55 years and over	588	567	21	105	84	21	34	7
Women, 16 years and over	4,676	4,564	112	1,085	684	401	772	138
16 to 19 years	160	148	12	214	123	91	123	72
20 years and over	4,515	4,416	99	872	561	311	649	67
20 to 24 years	579	559	20	173	100	73	170	24
25 years and over	3,938	3,858	80	699	461	238	478	43
25 to 54 years	3,568	3,500	68	483	292	191	458	35
55 years and over	370	358	12	216	169	47	20	8

¹ Employed persons with a job but not at work are distributed according to whether they usually work full or part time.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-10. Employment status of persons in families by family relationship

(Numbers in thousands)

Family relationship	July 1987									
	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 ¹	100,038	67.6	93,842	6,196	6.2	48,047	23,750	1,887	2,242	20,168
Husbands	39,760	78.6	38,373	1,387	3.5	10,852	190	138	855	9,668
With employed wife	24,657	91.9	23,866	791	3.2	2,168	50	82	321	1,716
With unemployed wife	1,118	93.4	996	122	10.9	79	6	6	14	53
With wife not in labor force	13,984	61.9	13,510	474	3.4	8,604	135	50	520	7,900
Wives	28,022	55.4	26,826	1,197	4.3	22,589	18,416	202	342	3,628
With employed husband	24,863	64.8	23,866	996	4.0	13,510	11,936	171	107	1,296
With unemployed husband	913	65.8	791	122	13.3	474	402	6	7	59
With husband not in labor force	2,247	20.7	2,168	79	3.5	8,604	6,078	25	229	2,273
Relatives in married-couple families	15,842	73.9	14,142	1,701	10.7	5,590	923	939	354	3,374
16 to 19 years	6,842	70.2	5,987	855	12.5	2,900	245	594	17	2,044
20 to 24 years	5,606	86.5	5,059	546	9.7	878	134	267	38	440
25 years and over	3,396	65.2	3,096	300	8.8	1,812	544	78	299	890
Women who maintain families	6,562	61.4	5,973	589	9.0	4,126	2,915	126	219	866
Relatives in families maintained by women	5,910	64.5	4,970	940	15.9	3,259	869	403	313	1,675
16 to 19 years	1,758	60.4	1,336	422	24.0	1,154	162	279	8	705
20 to 24 years	1,715	78.8	1,474	241	14.1	461	141	75	37	208
25 years and over	2,437	59.7	2,160	277	11.4	1,644	566	49	268	762
Men who maintain families	2,102	75.9	1,978	124	5.9	666	41	16	79	530
Relatives in families maintained by men	1,839	65.6	1,581	259	14.1	964	396	63	80	426
16 to 19 years	360	64.2	276	84	23.3	201	31	31	3	136
20 to 24 years	548	84.6	470	78	14.3	99	39	21	6	33
25 years and over	932	58.4	835	97	10.4	664	326	11	71	257

¹ Excludes persons living alone or with nonrelatives, persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies.

NOTE: Estimates shown in this table for husbands, wives, and women

who maintain families are somewhat different from marital status estimates shown in other tables in this publication because of differences in definitions and weighting patterns used in aggregating the data.

A-11. Unemployed persons by marital status, race, age, and sex

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987
Total, 16 years and over	4,582	3,963	6.8	5.8	3,889	3,490	7.3	6.4
Married, spouse present	1,733	1,513	4.2	3.6	1,575	1,285	5.6	4.4
Widowed, divorced, or separated	527	445	8.4	6.8	788	735	7.7	7.2
Single (never married)	2,322	2,005	12.0	10.4	1,526	1,471	10.5	9.8
White, 16 years and over	3,378	2,906	5.8	4.9	2,853	2,472	6.3	5.4
Married, spouse present	1,420	1,229	3.8	3.3	1,295	1,074	5.1	4.2
Widowed, divorced, or separated	377	311	7.2	5.7	592	502	7.2	6.2
Single (never married)	1,581	1,365	9.8	8.5	966	896	8.2	7.4
Black, 16 years and over	1,036	912	15.6	13.4	931	911	14.6	13.6
Married, spouse present	235	220	7.7	6.8	221	172	9.7	7.3
Widowed, divorced, or separated	138	125	15.0	13.0	180	209	10.3	11.4
Single (never married)	663	567	24.9	21.6	530	529	22.3	21.5
Total, 25 years and over	2,768	2,411	5.2	4.4	2,313	2,036	5.6	4.8
Married, spouse present	1,580	1,406	4.0	3.5	1,271	1,045	4.9	3.9
Widowed, divorced, or separated	500	411	8.3	6.5	711	649	7.3	6.7
Single (never married)	687	595	8.8	7.5	331	343	6.0	6.0
White, 25 years and over	2,128	1,808	4.6	3.8	1,762	1,446	5.1	4.1
Married, spouse present	1,291	1,132	3.7	3.2	1,049	870	4.6	3.7
Widowed, divorced, or separated	352	294	7.0	5.7	534	432	6.9	5.6
Single (never married)	484	382	7.5	5.9	179	143	4.2	3.3
Black, 25 years and over	533	515	10.7	9.9	476	521	9.9	10.1
Married, spouse present	217	210	7.4	6.8	173	136	8.4	6.2
Widowed, divorced, or separated	136	110	15.0	11.8	163	195	9.6	10.9
Single (never married)	179	194	15.6	16.4	141	190	13.3	16.0

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987
Total, 16 years and over	8,471	7,453	7.0	6.1	6.8	5.8	7.3	6.4
Managerial and professional specialty	746	698	2.8	2.5	2.4	2.1	3.3	2.9
Executive, administrative, and managerial	354	310	2.7	2.2	2.2	1.8	3.6	2.8
Professional specialty	392	388	2.8	2.7	2.5	2.5	3.1	2.9
Technical, sales, and administrative support	1,793	1,589	4.9	4.3	4.0	3.4	5.4	4.8
Technicians and related support	129	67	3.5	1.9	4.5	2.3	2.4	1.4
Sales occupations	759	681	5.3	4.8	3.5	2.9	7.1	6.6
Administrative support, including clerical	905	840	4.8	4.4	4.7	4.8	4.9	4.3
Service occupations	1,367	1,250	8.4	7.5	8.7	7.3	8.2	7.7
Private household	78	62	7.0	5.8	(¹)	(¹)	7.0	6.0
Protective service	60	85	3.0	4.2	2.8	4.0	4.1	5.2
Service, except private household and protective	1,229	1,103	9.3	8.2	10.8	8.6	8.5	8.0
Precision production, craft, and repair	988	788	6.7	5.4	6.4	5.3	9.6	6.1
Mechanics and repairers	226	208	4.8	4.4	4.8	4.3	3.9	9.0
Construction trades	472	387	8.4	6.9	8.4	6.9	7.1	5.0
Other precision production, craft, and repair	290	194	6.5	4.5	5.3	4.1	10.7	5.7
Operators, fabricators, and laborers	1,979	1,760	10.0	8.9	9.5	8.6	11.2	9.7
Machine operators, assemblers, and inspectors	901	774	9.9	8.5	9.2	8.0	10.9	9.3
Transportation and material moving occupations	424	335	8.3	6.6	7.9	6.4	11.9	8.0
Handlers, equipment cleaners, helpers, and laborers	654	651	11.6	11.4	11.5	11.3	12.2	12.0
Construction laborers	157	161	14.3	15.7	13.6	15.8	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	497	490	10.9	10.5	10.8	10.1	11.3	11.9
Farming, forestry, and fishing	242	258	5.5	5.6	5.5	5.6	5.1	5.8
No previous work experience	1,291	1,090						
16 to 19 years	950	789						
20 to 24 years	202	192						
25 years and over	140	109						

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

A-13. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987
Total, 16 years and over	8,471	7,453	7.0	6.1	6.8	5.8	7.3	6.4
Nonagricultural private wage and salary workers	6,192	5,368	6.9	5.9	6.9	5.8	6.9	6.0
Mining	170	71	16.5	7.9	18.8	8.2	3.1	6.3
Construction	674	561	10.5	8.5	10.3	9.1	11.9	2.9
Manufacturing	1,509	1,273	6.7	5.8	5.7	5.2	8.8	7.0
Durable goods	887	778	6.7	5.9	6.0	5.9	8.3	6.1
Lumber and wood products	71	48	9.4	6.0	9.8	6.0	6.5	5.9
Furniture and fixtures	53	43	7.9	6.3	7.1	4.7	9.6	9.7
Stone, clay, and glass products	45	35	6.8	5.8	6.1	7.0	8.9	1.4
Primary metal industries	84	73	10.1	8.5	10.8	8.6	5.6	8.0
Fabricated metal products	104	87	7.5	6.5	7.0	7.2	9.2	4.2
Machinery, except electrical	153	134	5.7	5.2	5.4	4.8	6.8	6.5
Electrical machinery, equipment, and supplies	143	90	6.1	4.0	4.2	4.0	8.9	4.1
Transportation equipment	136	212	5.1	7.8	4.8	7.2	6.2	10.1
Automobiles	89	148	7.2	11.7	6.0	10.2	12.2	16.8
Other transportation equipment	47	64	3.2	4.4	3.7	4.6	1.3	4.1
Professional and photographic equipment	58	15	7.4	2.0	5.0	2.1	10.5	1.9
Other durable goods industries	41	39	8.1	6.9	5.2	5.9	11.3	8.1
Nondurable goods	623	496	6.8	5.5	5.1	3.8	9.3	7.8
Food and kindred products	146	130	7.3	7.2	5.8	5.4	10.5	10.5
Textile mill products	60	35	8.0	4.6	7.7	3.2	8.3	6.1
Apparel and other textile products	131	128	9.7	10.1	5.1	2.5	11.4	12.2
Paper and allied products	17	20	2.3	2.6	1.7	1.9	4.3	4.6
Printing and publishing	101	60	5.5	3.2	4.4	3.5	7.1	2.9
Chemicals and allied products	60	43	4.7	3.2	4.3	2.9	5.7	4.1
Rubber and miscellaneous plastics products	62	45	8.3	6.2	7.1	4.8	10.3	8.2
Other nondurable goods industries	46	32	10.6	7.5	7.2	6.8	17.2	9.9
Transportation and public utilities	338	284	5.6	4.5	5.9	4.2	4.6	5.0
Transportation	240	210	6.9	5.7	7.6	5.6	4.3	6.1
Communications and other public utilities	98	75	3.8	2.8	3.1	2.1	4.8	4.1
Wholesale and retail trade	1,762	1,546	7.6	6.7	6.9	5.7	8.3	7.7
Wholesale trade	211	185	4.7	4.1	4.8	4.0	4.4	4.4
Retail trade	1,551	1,361	8.3	7.3	7.6	6.3	8.9	8.1
Finance, insurance, and real estate	259	226	3.8	3.1	3.5	3.6	3.9	2.8
Service industries	1,480	1,406	6.2	5.6	6.8	6.1	5.8	5.4
Professional services	527	521	4.1	3.9	4.2	3.5	4.1	4.0
Other service industries	953	885	8.6	7.7	8.6	8.0	8.6	7.4
Agricultural wage and salary workers	184	197	9.1	9.1	9.6	8.7	7.1	10.4
Government, self-employed, and unpaid family workers	804	800	3.0	2.9	2.6	2.6	3.4	3.3
No previous work experience	1,291	1,090	-	-	-	-	-	-

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-14. 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 1986	July 1987	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987
NUMBER OF UNEMPLOYED												
Total unemployed	8,471	7,453	3,656	3,187	3,109	2,753	1,706	1,513	6,231	5,378	1,967	1,823
Job losers	3,886	3,385	2,482	2,138	1,165	1,046	238	201	2,934	2,506	848	790
On layoff	997	839	592	512	357	290	47	38	827	651	141	167
Other job losers	2,889	2,546	1,890	1,626	808	756	191	163	2,107	1,855	707	623
Job leavers	1,089	1,068	470	443	464	450	155	175	892	851	164	173
Reentrants	2,205	1,911	576	482	1,266	1,081	363	348	1,546	1,317	574	529
New entrants	1,291	1,089	127	125	214	176	950	789	858	704	381	331
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	45.9	45.5	67.9	67.1	37.5	38.0	14.0	13.3	47.1	46.6	43.1	43.3
On layoff	11.8	11.3	16.2	16.1	11.5	10.5	2.8	2.5	13.3	12.1	7.2	9.1
Other job losers	34.1	34.2	51.7	51.0	26.0	27.5	11.2	10.8	33.8	34.5	35.9	34.2
Job leavers	12.9	14.3	12.9	13.9	14.9	16.3	9.1	11.6	14.3	15.8	8.3	9.5
Reentrants	26.0	25.6	15.8	15.1	40.7	39.3	21.3	23.0	24.8	24.5	29.2	29.0
New entrants	15.2	14.6	3.5	3.9	6.9	6.4	55.7	52.1	13.8	13.1	19.4	18.1
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	3.2	2.8	4.1	3.4	2.4	2.1	2.4	2.0	2.8	2.4	6.5	5.9
Job leavers .....	.9	.9	.8	.7	1.0	.9	1.6	1.8	.9	.8	1.3	1.3
Reentrants	1.8	1.6	.9	.8	2.6	2.2	3.7	3.5	1.5	1.3	4.4	3.9
New entrants	1.1	.9	.2	.2	.4	.4	9.6	8.0	.8	.7	2.9	2.5

A-15. Unemployed persons by reason for unemployment, sex, age, and duration of unemployment

(Percent distribution)

Reason, sex, and age	July 1987						
	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	7,453	100.0	45.8	30.5	23.6	10.6	13.1
Job losers	3,385	100.0	37.4	28.1	34.5	15.3	19.3
On layoff	839	100.0	56.2	24.5	19.3	11.6	7.8
Other job losers	2,546	100.0	31.2	29.2	39.5	16.5	23.1
Job leavers	1,068	100.0	55.2	28.5	16.2	7.2	9.1
Reentrants	1,911	100.0	51.9	31.4	16.8	7.6	9.1
New entrants	1,089	100.0	52.2	38.7	9.1	4.4	4.8
Men, 20 years and over	3,187	100.0	37.7	28.1	34.3	14.2	20.1
Job losers	2,138	100.0	33.9	27.2	38.9	15.7	23.1
On layoff	512	100.0	57.3	20.4	22.3	12.2	10.1
Other job losers	1,626	100.0	26.6	29.4	44.1	16.9	27.2
Job leavers	443	100.0	49.1	25.2	25.8	9.8	16.0
Reentrants	482	100.0	39.5	35.0	25.5	11.8	13.7
New entrants	125	100.0	55.1	25.5	19.4	11.6	7.8
Women, 20 years and over	2,753	100.0	49.1	29.7	21.2	10.4	10.9
Job losers	1,046	100.0	40.0	29.7	30.3	15.9	14.4
On layoff	290	100.0	53.2	30.5	16.3	11.7	4.6
Other job losers	756	100.0	34.9	29.4	35.7	17.6	18.1
Job leavers	450	100.0	54.9	32.8	12.4	7.1	5.3
Reentrants	1,081	100.0	55.4	28.2	16.4	6.8	9.6
New entrants	176	100.0	50.0	30.8	19.2	7.5	11.6
Both sexes, 16 to 19 years	1,513	100.0	57.0	37.3	5.7	3.3	2.4
Job losers	201	100.0	61.1	28.7	10.1	6.5	3.6
On layoff	38	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Other job losers	163	100.0	60.4	27.5	12.1	7.7	4.5
Job leavers	175	100.0	71.7	26.2	2.0	.9	1.1
Reentrants	348	100.0	58.1	36.1	5.8	4.5	1.3
New entrants	789	100.0	52.2	42.6	5.3	2.5	2.8

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

A-16. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987
Total, 16 years and over	8,471	7,453	100.0	100.0	7,096	6,262	100.0	100.0
Less than 5 weeks	3,679	3,415	43.4	45.8	2,818	2,695	39.7	43.0
5 to 14 weeks	2,710	2,276	32.0	30.5	2,337	1,913	32.9	30.5
5 to 10 weeks	2,102	1,797	24.8	24.1	1,790	1,483	25.2	23.7
11 to 14 weeks	609	479	7.2	6.4	548	429	7.7	6.9
15 weeks and over	2,082	1,762	24.6	23.6	1,941	1,655	27.4	26.4
15 to 26 weeks	873	787	10.3	10.6	805	737	11.3	11.8
27 weeks and over	1,208	975	14.3	13.1	1,136	918	16.0	14.7
27 to 51 weeks	501	466	5.9	6.3	468	438	6.6	7.0
52 weeks and over	708	510	8.4	6.8	667	480	9.4	7.7
Average (mean) duration, in weeks	14.4	13.4			15.6	14.5		
Median duration, in weeks	6.2	5.9			7.0	6.6		

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-17. 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 1986	July 1987	July 1986	July 1987
	July 1987										
Total, 16 years and over	7,453	3,415	2,276	787	975	13.4	5.9	43.4	45.8	24.6	23.6
16 to 19 years	1,513	862	565	50	36	6.2	4.4	58.7	57.0	9.4	5.7
20 to 24 years	1,493	776	455	167	95	9.6	4.8	45.4	52.0	20.2	17.6
25 to 34 years	2,043	863	595	268	317	14.6	7.3	41.2	42.2	27.0	28.6
35 to 44 years	1,271	515	385	132	240	16.9	7.5	35.6	40.5	31.4	29.2
45 to 54 years	697	254	174	103	166	21.0	9.6	33.2	36.4	36.9	38.7
55 to 64 years	363	105	91	60	107	25.5	13.4	33.0	29.0	40.7	46.0
65 years and over	72	40	11	7	14	(¹)	(¹)	37.3	(¹)	37.9	(¹)
Men, 16 years and over	3,963	1,621	1,187	491	664	15.9	7.0	39.9	40.9	29.5	29.1
16 to 19 years	776	420	294	40	23	6.4	4.6	55.3	54.1	11.4	8.0
20 to 24 years	776	353	251	104	68	11.4	5.8	45.6	45.5	22.1	22.2
25 to 34 years	1,067	411	305	154	197	16.8	8.3	34.6	38.5	33.4	32.9
35 to 44 years	685	240	185	87	173	21.5	9.8	31.8	35.0	37.4	38.0
45 to 54 years	390	114	101	59	115	24.1	12.5	31.4	29.3	45.9	44.8
55 to 64 years	225	54	50	43	78	29.0	17.5	29.6	23.9	48.3	54.0
65 years and over	45	30	2	3	9	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,490	1,794	1,088	296	312	10.5	4.9	47.6	51.4	18.8	17.4
16 to 19 years	737	442	271	10	13	6.0	4.2	62.7	60.0	7.0	3.2
20 to 24 years	717	423	204	63	27	7.6	4.2	45.1	59.0	18.0	12.5
25 to 34 years	977	453	291	114	120	12.1	6.1	49.1	46.3	19.4	23.9
35 to 44 years	586	275	199	44	67	11.4	5.7	40.0	47.0	24.2	19.0
45 to 54 years	308	140	73	44	51	16.9	6.6	35.3	45.4	26.6	31.0
55 to 64 years	138	52	41	17	29	19.8	8.0	37.4	37.4	30.9	32.9
65 years and over	27	10	9	4	5	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	5,378	2,525	1,585	579	690	13.1	5.7	44.6	46.9	23.8	23.6
Men	2,906	1,211	830	367	497	16.1	6.9	40.9	41.7	29.0	29.7
Women	2,472	1,313	755	212	192	9.6	4.7	49.0	53.1	17.5	16.3
Black, 16 years and over	1,823	774	612	180	257	14.6	6.4	41.0	42.5	26.9	23.9
Men	912	345	308	104	155	16.0	7.2	38.2	37.8	30.7	28.4
Women	911	429	304	76	102	13.1	5.6	44.1	47.1	22.7	19.5
Men, 16 years and over:											
Married, spouse present	1,513	516	407	242	349	20.1	10.1	33.6	34.1	36.5	39.0
Widowed, divorced, or separated	445	166	116	64	99	19.6	9.1	33.8	37.4	37.8	36.5
Single (never married)	2,005	939	665	185	216	12.0	5.5	46.1	46.8	22.4	20.0
Women, 16 years and over:											
Married, spouse present	1,285	661	409	108	107	9.8	4.9	45.1	51.4	19.4	16.7
Widowed, divorced, or separated	735	328	194	102	110	15.4	7.2	40.6	44.7	25.9	28.9
Single (never married)	1,471	805	485	86	95	8.8	4.6	53.7	54.7	14.4	12.3

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

A-18. 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 1986	July 1987	July 1986	July 1987
	July 1987										
OCCUPATION											
Managerial and professional specialty	698	265	215	92	125	16.2	8.2	40.7	37.9	25.1	31.2
Technical, sales, and administrative support	1,589	772	503	160	154	10.9	5.3	44.4	48.6	22.5	19.7
Service occupations	1,250	608	357	108	178	14.1	5.3	43.8	48.6	23.5	22.9
Precision production, craft, and repair	788	318	210	121	140	16.3	7.7	41.5	40.3	30.9	33.1
Operators, fabricators, and laborers	1,760	731	495	239	294	16.4	7.3	39.0	41.6	31.6	30.3
Farming, forestry, and fishing	258	148	69	13	28	10.8	4.4	45.0	57.3	24.8	16.0
INDUSTRY¹											
Agriculture	197	123	48	13	12	8.4	4.0	43.4	62.8	19.8	12.9
Construction	595	238	168	84	105	15.6	7.7	42.1	40.0	26.0	31.7
Manufacturing	1,278	478	374	212	214	17.4	8.6	35.9	37.4	33.3	33.4
Durable goods	783	285	220	141	138	18.6	9.0	34.3	36.3	35.1	35.6
Nondurable goods	496	193	154	71	76	15.6	8.0	38.2	39.0	30.8	29.9
Transportation and public utilities	346	150	91	47	57	17.0	6.4	43.7	43.4	29.1	30.2
Wholesale and retail trade	1,558	787	416	180	175	11.7	5.0	45.2	50.5	24.5	22.8
Finance and service industries	1,946	906	634	159	248	12.8	5.8	45.3	46.6	22.1	20.8
Public administration	223	82	60	29	52	19.4	7.8	36.0	36.7	36.1	36.2
No previous work experience	1,090	569	422	48	52	7.9	4.8	51.3	52.2	11.8	9.1

¹ Includes wage and salary workers only.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-19. Unemployed jobseekers by sex, age, race, and jobsearch methods used

Sex, age, and race	July 1987								
	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	7,453	6,435	21.7	7.5	74.7	37.0	18.4	4.5	1.64
16 to 19 years	1,513	1,449	15.2	3.8	82.8	27.9	16.1	2.6	1.48
20 to 24 years	1,493	1,318	20.8	7.3	72.8	39.7	19.0	3.0	1.63
25 to 34 years	2,043	1,748	23.0	8.6	74.3	41.4	20.2	4.4	1.72
35 to 44 years	1,271	1,035	25.7	7.8	72.3	38.5	18.3	7.0	1.69
45 to 54 years	697	542	27.3	11.3	72.5	37.6	17.3	5.9	1.72
55 to 64 years	363	286	26.6	12.2	61.9	36.4	19.9	11.2	1.68
65 years and over	72	57	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Men, 16 years and over	3,963	3,318	23.3	7.4	76.1	35.7	22.5	5.2	1.70
16 to 19 years	776	727	17.7	3.4	81.8	26.4	19.5	2.2	1.51
20 to 24 years	776	648	20.7	7.3	74.5	38.6	22.5	4.6	1.68
25 to 34 years	1,067	889	24.0	7.5	77.4	40.4	26.3	4.7	1.80
35 to 44 years	685	540	28.3	8.7	76.1	35.9	21.5	8.1	1.79
45 to 54 years	390	301	28.9	11.6	70.4	35.5	21.3	7.0	1.75
55 to 64 years	225	181	30.9	12.7	66.3	38.1	22.1	9.9	1.80
65 years and over	45	33	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,490	3,117	20.0	7.6	73.3	38.3	14.1	3.8	1.57
16 to 19 years	737	723	12.6	4.1	83.8	29.3	12.7	2.9	1.46
20 to 24 years	717	671	20.9	7.3	71.1	40.7	15.5	1.3	1.57
25 to 34 years	977	859	22.0	9.9	71.2	42.4	13.9	4.1	1.63
35 to 44 years	586	495	22.8	6.7	68.1	41.2	14.7	5.9	1.59
45 to 54 years	308	241	25.3	10.4	75.1	40.2	12.4	4.6	1.68
55 to 64 years	138	105	19.0	11.4	54.3	32.4	16.2	13.3	1.47
65 years and over	27	24	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	5,378	4,573	20.7	7.8	74.4	39.1	18.1	5.0	1.65
Men	2,906	2,399	22.8	8.0	75.8	37.8	21.8	5.7	1.72
Women	2,472	2,173	18.4	7.5	72.9	40.5	14.1	4.1	1.57
Black, 16 years and over	1,823	1,645	24.1	6.6	74.6	32.5	19.1	3.5	1.60
Men	912	795	24.3	5.2	76.9	31.3	24.5	3.8	1.66
Women	911	851	24.0	7.9	72.4	33.7	14.0	3.2	1.55

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

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.

A-20. Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used

Sex and reason	July 1987								
	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	7,453	6,435	21.7	7.5	74.7	37.0	18.4	4.5	1.64
Job losers ¹	3,385	2,538	26.8	8.3	77.1	38.6	20.4	3.8	1.75
Job leavers	1,068	1,077	19.4	10.5	73.6	42.9	18.9	5.6	1.71
Reentrants	1,911	1,750	19.4	6.3	69.2	37.4	16.1	6.4	1.55
New entrants	1,089	1,068	15.4	4.5	79.4	26.5	17.0	2.1	1.45
Men, 16 years and over	3,963	3,318	23.3	7.4	76.1	35.7	22.5	5.2	1.70
Job losers ¹	2,258	1,701	27.2	8.2	77.9	38.0	23.6	4.5	1.79
Job leavers	525	524	20.6	8.8	73.3	42.7	21.9	5.7	1.73
Reentrants	680	602	19.8	5.6	70.6	30.1	21.3	10.0	1.57
New entrants	500	491	17.3	4.9	79.6	26.9	21.0	1.0	1.51
Women, 16 years and over	3,490	3,117	20.0	7.6	73.3	38.3	14.1	3.8	1.57
Job losers ¹	1,127	838	26.1	8.5	75.4	39.6	13.8	2.5	1.66
Job leavers	542	553	18.4	12.1	73.8	43.0	16.1	5.4	1.69
Reentrants	1,231	1,149	19.4	6.5	68.5	41.4	13.4	4.5	1.54
New entrants	590	578	13.7	4.2	79.1	26.0	13.7	2.9	1.39

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.

A-21. Employed civilians in agriculture and nonagricultural industries by age and sex

(In thousands)

Industry and age	Total		Men		Women	
	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987
All industries	111,832	114,652	62,568	63,814	49,263	50,839
16 to 19 years	8,197	8,383	4,342	4,356	3,855	4,027
16 to 17 years	3,576	3,737	1,917	1,990	1,659	1,747
18 to 19 years	4,621	4,646	2,425	2,365	2,196	2,280
20 to 24 years	14,502	14,226	7,746	7,563	6,756	6,663
25 to 54 years	74,743	77,607	42,061	43,363	32,683	34,243
25 to 34 years	32,152	33,224	18,151	18,690	14,001	14,534
35 to 44 years	25,721	26,997	14,325	14,923	11,396	12,074
45 to 54 years	16,871	17,386	9,585	9,751	7,286	7,634
55 to 64 years	11,407	11,327	6,645	6,659	4,761	4,668
55 to 59 years	6,890	6,915	3,981	4,053	2,909	2,863
60 to 64 years	4,517	4,412	2,664	2,607	1,853	1,805
65 years and over	2,983	3,109	1,775	1,872	1,208	1,237
Agriculture	3,655	3,754	2,858	2,915	797	839
16 to 19 years	426	448	361	359	64	90
16 to 17 years	241	264	196	211	45	54
18 to 19 years	185	184	165	148	20	36
20 to 24 years	461	441	366	362	95	79
25 to 54 years	1,967	1,993	1,478	1,502	489	493
25 to 34 years	846	889	665	693	181	196
35 to 44 years	608	619	423	467	185	153
45 to 54 years	513	485	390	342	123	143
55 to 64 years	484	535	376	414	108	121
55 to 59 years	258	292	194	222	64	69
60 to 64 years	226	243	182	191	44	52
65 years and over	317	336	277	279	40	57
Nonagricultural industries	108,176	110,898	59,710	60,899	48,466	49,999
16 to 19 years	7,771	7,934	3,980	3,997	3,791	3,937
16 to 17 years	3,335	3,473	1,721	1,780	1,614	1,693
18 to 19 years	4,436	4,462	2,260	2,217	2,177	2,244
20 to 24 years	14,041	13,785	7,380	7,201	6,660	6,584
25 to 54 years	72,776	75,613	40,583	41,863	32,193	33,750
25 to 34 years	31,305	32,335	17,485	17,997	13,820	14,338
35 to 44 years	25,113	26,377	13,902	14,456	11,211	11,922
45 to 54 years	16,358	16,900	9,195	9,409	7,163	7,491
55 to 64 years	10,923	10,792	6,269	6,245	4,654	4,547
55 to 59 years	6,632	6,624	3,787	3,830	2,845	2,794
60 to 64 years	4,291	4,169	2,482	2,415	1,809	1,753
65 years and over	2,666	2,773	1,498	1,593	1,167	1,181

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-22. 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 1986	July 1987	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987
Total	111,832	114,652	62,568	63,814	58,227	59,458	49,263	50,839	45,408	46,811
Managerial and professional specialty	26,032	27,692	14,901	15,529	14,806	15,379	11,131	12,163	10,955	12,002
Executive, administrative, and managerial	12,609	13,696	7,985	8,563	7,952	8,506	4,624	5,132	4,554	5,083
Officials and administrators, public administration	520	574	294	358	294	356	226	216	224	216
Other executive, administrative, and managerial	8,670	9,452	5,845	6,274	5,813	6,222	2,826	3,178	2,769	3,141
Management-related occupations	3,419	3,669	1,847	1,931	1,845	1,928	1,572	1,738	1,560	1,725
Professional specialty	13,423	13,997	6,916	6,966	6,854	6,873	6,507	7,031	6,402	6,919
Engineers	1,789	1,744	1,708	1,625	1,700	1,622	81	119	81	118
Mathematical and computer scientists	701	648	446	430	443	428	255	218	254	217
Natural scientists	419	413	311	301	311	299	108	112	108	112
Health diagnosing occupations	743	807	626	675	626	675	118	131	118	131
Health assessment and treating occupations	2,091	2,148	282	273	280	273	1,809	1,876	1,803	1,876
Teachers, college and university	479	511	326	302	326	303	152	209	148	209
Teachers, except college and university	2,980	3,047	814	752	792	728	2,166	2,295	2,144	2,260
Lawyers and judges	668	719	534	574	532	573	134	145	134	143
Other professional specialty occupations	3,552	3,960	1,868	2,034	1,842	1,973	1,684	1,926	1,612	1,854
Technical, sales, and administrative support	34,893	35,308	12,266	12,488	11,592	11,760	22,627	22,820	20,747	20,813
Technicians and related support	3,548	3,525	1,851	1,804	1,805	1,765	1,698	1,721	1,665	1,693
Health technologists and technicians	1,158	1,212	182	182	182	178	976	1,030	966	1,021
Engineering and science technicians	1,230	1,194	974	973	952	954	257	221	245	213
Technicians, except health, engineering, and science	1,160	1,119	695	649	671	633	465	470	453	459
Sales occupations	13,535	13,602	6,892	7,002	6,488	6,605	6,643	6,599	5,594	5,510
Supervisors and proprietors	3,528	3,582	2,422	2,433	2,397	2,413	1,106	1,149	1,092	1,137
Sales representatives, finance and business services	2,300	2,412	1,269	1,426	1,253	1,413	1,032	986	1,000	937
Sales representatives, commodities, except retail	1,581	1,534	1,278	1,252	1,265	1,244	303	283	284	275
Sales workers, retail and personal services	6,064	6,012	1,896	1,868	1,549	1,512	4,168	4,144	3,188	3,127
Sales-related occupations	61	61	28	23	24	22	34	38	30	35
Administrative support, including clerical	17,809	18,181	3,523	3,681	3,299	3,390	14,287	14,500	13,489	13,610
Supervisors	762	689	323	309	323	308	440	380	437	378
Computer equipment operators	882	969	256	366	243	353	626	604	582	585
Secretaries, stenographers, and typists	4,914	4,974	83	103	68	89	4,832	4,871	4,611	4,576
Financial records processing	2,474	2,447	210	234	200	226	2,264	2,213	2,211	2,166
Mail and message distributing	891	974	586	641	564	603	305	332	285	319
Other administrative support, including clerical	7,887	8,128	2,066	2,028	1,901	1,811	5,821	6,100	5,363	5,586
Service occupations	14,980	15,330	5,838	6,025	4,693	4,942	9,142	9,305	7,695	7,842
Private household	1,041	1,004	47	44	28	26	993	961	732	693
Protective service	1,942	1,972	1,657	1,667	1,572	1,595	284	305	221	249
Service, except private household and protective	11,998	12,354	4,133	4,314	3,093	3,321	7,864	8,040	6,743	6,899
Food service	5,278	5,209	1,975	1,958	1,243	1,268	3,303	3,251	2,524	2,484
Health service	1,847	1,905	189	171	177	161	1,658	1,734	1,581	1,657
Cleaning and building service	2,816	2,994	1,586	1,729	1,365	1,536	1,230	1,264	1,144	1,166
Personal service	2,057	2,246	384	456	308	355	1,673	1,790	1,494	1,592
Precision production, craft, and repair	13,843	13,892	12,674	12,697	12,182	12,285	1,169	1,195	1,124	1,165
Mechanics and repairers	4,506	4,478	4,358	4,334	4,202	4,221	148	144	144	143
Construction trades	5,162	5,251	5,043	5,126	4,777	4,893	119	125	109	119
Other precision production, craft, and repair	4,175	4,163	3,272	3,237	3,204	3,170	902	926	870	903
Operators, fabricators, and laborers	17,904	18,102	13,411	13,477	12,021	12,074	4,493	4,625	4,273	4,357
Machine operators, assemblers, and inspectors	8,197	8,289	4,864	4,852	4,664	4,651	3,333	3,438	3,213	3,295
Manufacturing industries	6,820	6,912	4,004	3,957	3,862	3,807	2,816	2,955	2,725	2,839
Durable goods	3,694	3,770	2,551	2,552	2,482	2,476	1,143	1,218	1,119	1,171
Nondurable goods	3,126	3,142	1,453	1,405	1,380	1,331	1,673	1,738	1,606	1,668
Nonmanufacturing industries	1,377	1,377	860	895	802	844	517	482	489	456
Transportation and material moving occupations	4,708	4,766	4,336	4,418	4,157	4,250	372	348	365	329
Motor vehicle operators	3,397	3,465	3,072	3,167	2,928	3,029	325	298	320	280
Other transportation and material moving occupations	1,310	1,301	1,263	1,251	1,229	1,221	47	51	46	49
Handlers, equipment cleaners, helpers, and laborers	4,999	5,047	4,211	4,208	3,200	3,173	788	839	694	733
Construction laborers	946	867	930	832	760	663	16	35	16	30
Other handlers, equipment cleaners, helpers, and laborers	4,052	4,180	3,281	3,376	2,441	2,510	772	804	678	702
Farming, forestry, and fishing	4,181	4,328	3,479	3,598	2,932	3,019	702	730	614	632
Farm operators and managers	1,380	1,385	1,191	1,156	1,179	1,151	189	229	186	224
Other farming, forestry, and fishing occupations	2,801	2,943	2,287	2,442	1,754	1,868	513	501	427	408

A-23. Employed civilians by occupation, race, and sex

(Percent distribution)

Occupation and race	Total		Men		Women	
	July 1986	July 1987	July 1986	July 1987	July 1986	July 1987
TOTAL						
Total, 16 years and over (thousands)	111,832	114,652	62,568	63,814	49,263	50,839
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	23.3	24.2	23.8	24.3	22.6	23.9
Executive, administrative, and managerial	11.3	11.9	12.8	13.4	9.4	10.1
Professional specialty	12.0	12.2	11.1	10.9	13.2	13.8
Technical, sales, and administrative support	31.2	30.8	19.6	19.6	45.9	44.9
Technicians and related support	3.2	3.1	3.0	2.8	3.4	3.4
Sales occupations	12.1	11.9	11.0	11.0	13.5	13.0
Administrative support, including clerical	15.9	15.9	5.6	5.8	29.0	28.5
Service occupations	13.4	13.4	9.3	9.4	18.6	18.3
Private household .....	.9	.9	.1	.1	2.0	1.9
Protective service	1.7	1.7	2.6	2.6	.6	.6
Service, except private household and protective	10.7	10.8	6.6	6.8	16.0	15.8
Precision production, craft, and repair	12.4	12.1	20.3	19.9	2.4	2.4
Operators, fabricators, and laborers	16.0	15.8	21.4	21.1	9.1	9.1
Machine operators, assemblers, and inspectors	7.3	7.2	7.8	7.6	6.8	6.8
Transportation and material moving occupations	4.2	4.2	6.9	6.9	.8	.7
Handlers, equipment cleaners, helpers, and laborers	4.5	4.4	6.7	6.6	1.6	1.7
Farming, forestry, and fishing	3.7	3.8	5.6	5.6	1.4	1.4
White						
Total, 16 years and over (thousands)	97,559	99,609	55,200	56,089	42,359	43,521
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	24.3	25.1	24.9	25.4	23.5	24.9
Executive, administrative, and managerial	11.9	12.6	13.5	14.2	9.8	10.6
Professional specialty	12.4	12.5	11.3	11.2	13.7	14.3
Technical, sales, and administrative support	31.7	31.2	20.0	19.9	47.0	45.9
Technicians and related support	3.2	3.0	3.0	2.8	3.5	3.3
Sales occupations	12.7	12.5	11.7	11.6	14.1	13.5
Administrative support, including clerical	15.8	15.7	5.3	5.4	29.4	29.0
Service occupations	12.2	12.2	8.3	8.5	17.4	17.0
Private household .....	.8	.7	.1	.1	1.8	1.6
Protective service	1.7	1.6	2.5	2.4	.6	.5
Service, except private household and protective	9.8	9.9	5.7	6.0	15.1	14.9
Precision production, craft, and repair	12.8	12.6	20.9	20.5	2.3	2.3
Operators, fabricators, and laborers	15.0	14.9	20.2	20.0	8.3	8.4
Machine operators, assemblers, and inspectors	6.9	6.8	7.5	7.3	6.1	6.1
Transportation and material moving occupations	4.1	4.0	6.7	6.5	.8	.7
Handlers, equipment cleaners, helpers, and laborers	4.1	4.2	6.1	6.1	1.5	1.6
Farming, forestry, and fishing	3.9	4.0	5.8	5.8	1.5	1.6
Black						
Total, 16 years and over (thousands)	11,074	11,645	5,622	5,884	5,452	5,761
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	13.8	14.9	12.5	13.3	15.1	16.5
Executive, administrative, and managerial	5.7	6.6	5.7	6.7	5.7	6.5
Professional specialty	8.1	8.3	6.8	6.6	9.4	10.0
Technical, sales, and administrative support	27.3	27.0	15.6	15.5	39.4	38.7
Technicians and related support	2.6	2.9	2.2	2.1	3.0	3.6
Sales occupations	7.2	6.9	5.1	4.8	9.3	9.0
Administrative support, including clerical	17.5	17.3	8.3	8.6	27.1	26.1
Service occupations	22.4	22.8	17.6	17.6	27.3	28.2
Private household	2.1	2.1	.1	.1	4.2	4.1
Protective service	2.5	2.9	4.3	4.7	.6	1.2
Service, except private household and protective	17.7	17.8	13.1	12.9	22.5	22.8
Precision production, craft, and repair	9.2	9.2	15.4	16.1	2.8	2.2
Operators, fabricators, and laborers	24.9	23.6	34.8	33.2	14.6	13.8
Machine operators, assemblers, and inspectors	11.0	10.5	10.7	10.3	11.4	10.7
Transportation and material moving occupations	5.7	6.2	10.5	11.4	.8	.9
Handlers, equipment cleaners, helpers, and laborers	8.2	6.8	13.7	11.4	2.5	2.2
Farming, forestry, and fishing	2.4	2.5	4.0	4.3	.7	.6

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-24. Employed civilians by age, sex, and class of worker

(In thousands)

Age and sex	July 1987								
	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	102,350	1,353	16,355	84,643	8,279	269	1,967	1,572	215
16 to 19 years	7,808	384	571	6,853	104	22	338	66	45
16 to 17 years	3,419	276	265	2,879	42	11	192	45	28
18 to 19 years	4,389	108	306	3,975	62	11	146	21	17
20 to 24 years	13,413	139	1,189	12,085	343	28	357	69	15
25 to 34 years	30,326	193	4,199	25,934	1,954	55	573	277	39
35 to 44 years	23,853	178	4,839	18,835	2,477	48	320	283	16
45 to 54 years	15,233	170	3,252	11,811	1,606	62	187	273	25
55 to 64 years	9,524	163	1,920	7,441	1,233	35	124	375	36
55 to 59 years	5,887	103	1,219	4,565	717	20	75	197	20
60 to 64 years	3,638	61	701	2,876	516	15	49	178	16
65 years and over	2,192	125	384	1,683	582	20	69	229	38
Men, 16 years and over	55,354	252	8,001	47,101	5,489	55	1,536	1,298	82
16 to 19 years	3,932	109	290	3,533	52	13	275	55	29
16 to 17 years	1,746	84	140	1,522	25	8	161	35	15
18 to 19 years	2,186	25	150	2,010	26	5	113	20	14
20 to 24 years	6,953	45	512	6,395	232	16	288	61	13
25 to 34 years	16,712	31	2,016	14,665	1,284	1	454	224	15
35 to 44 years	12,888	16	2,321	10,551	1,561	6	233	233	1
45 to 54 years	8,313	11	1,640	6,662	1,089	7	129	212	1
55 to 64 years	5,372	21	1,011	4,340	872	1	98	311	5
55 to 59 years	3,311	11	640	2,661	518	1	61	159	2
60 to 64 years	2,061	10	371	1,679	354	-	37	152	3
65 years and over	1,184	18	210	955	400	9	60	201	18
Women, 16 years and over	46,996	1,101	8,353	37,542	2,789	214	432	274	133
16 to 19 years	3,876	275	281	3,321	52	9	63	11	16
16 to 17 years	1,673	192	125	1,356	17	3	31	10	13
18 to 19 years	2,203	83	156	1,964	35	6	32	1	3
20 to 24 years	6,461	94	676	5,691	112	11	69	7	3
25 to 34 years	13,614	163	2,183	11,269	671	54	119	53	24
35 to 44 years	10,964	162	2,518	8,284	916	41	87	50	15
45 to 54 years	6,920	159	1,613	5,149	516	54	58	60	25
55 to 64 years	4,152	142	909	3,101	361	34	27	64	31
55 to 59 years	2,576	92	579	1,905	199	19	14	38	18
60 to 64 years	1,577	50	330	1,197	162	15	13	26	13
65 years and over	1,008	107	174	727	162	10	9	28	20

A-25. Employed civilians by industry and occupation

(In thousands)

Industry	July 1987												
	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	3,754	51	47	29	17	100		22	31	10	48	26	3,374
Mining	857	122	102	20	21	97		8	265	20	146	51	5
Construction	8,075	987	134	63	79	488		37	4,525	92	619	1,015	35
Manufacturing	21,300	2,438	1,675	734	676	2,471		351	3,952	6,912	780	1,233	79
Durable goods	12,639	1,458	1,171	524	281	1,411		198	2,776	3,770	398	581	69
Nondurable goods	8,662	979	503	210	395	1,060		153	1,176	3,142	382	652	10
Transportation and public utilities	8,065	933	453	256	327	2,216		272	1,260	128	1,725	476	19
Wholesale and retail trade	23,719	1,952	445	96	9,765	2,412		4,374	1,598	299	936	1,793	47
Wholesale trade	4,686	557	86	36	1,747	887		32	346	141	491	352	12
Retail trade	19,033	1,395	359	60	8,018	1,525		4,343	1,253	158	445	1,441	35
Finance, insurance, and real estate	7,843	1,880	167	154	1,871	3,172	-	302	156	19	10	24	87
Services	35,582	4,200	10,238	1,942	809	5,741	1,004	7,660	1,825	763	438	371	589
Private households	1,355	5	11	6	2	5	1,004	116	8	1	9	22	166
Other service industries	34,227	4,194	10,227	1,935	808	5,736	-	7,545	1,817	763	430	349	424
Professional services	22,010	2,372	8,890	1,613	108	4,012		3,997	422	161	205	100	130
Public administration	5,457	1,133	736	231	35	1,484		1,298	279	45	64	58	93

¹ Includes protective service, not shown separately.

A-26. 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 1986	July 1987	Total		Wage and salary workers ¹			
			July 1986	July 1987	Paid absences		Unpaid absences	
					July 1986	July 1987	July 1986	July 1987
Total, 16 years and over	12,541	11,125	12,412	10,956	7,533	6,381	4,114	3,839
Vacation	10,136	8,802	10,077	8,720	6,861	5,701	2,763	2,549
Illness	1,186	1,237	1,163	1,196	403	444	670	650
Bad weather	43	31	34	15	(²)	(²)	(²)	(²)
Industrial dispute	42	42	42	42	(²)	(²)	(²)	(²)
All other reasons	1,135	1,013	1,097	983	270	236	681	640
Men, 16 years and over	5,591	4,846	5,495	4,725	3,756	3,075	1,321	1,271
Vacation	4,431	3,712	4,388	3,652	3,453	2,715	726	702
Illness	644	693	623	661	189	265	371	344
All other reasons ³	516	442	484	412	114	96	224	226
Women, 16 years and over	6,950	6,279	6,916	6,230	3,778	3,306	2,793	2,567
Vacation	5,704	5,091	5,688	5,069	3,408	2,986	2,037	1,847
Illness	542	545	540	534	214	180	299	306
All other reasons ³	703	644	688	627	156	140	457	414

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-27. Persons at work by hours of work and type of industry

Hours of work	July 1987					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	103,527	3,585	99,942	100.0	100.0	100.0
1 to 34 hours	22,832	1,006	21,826	22.1	28.1	21.8
1 to 4 hours	666	57	608	.6	1.6	.6
5 to 14 hours	3,357	232	3,125	3.2	6.5	3.1
15 to 29 hours	11,533	481	11,052	11.1	13.4	11.1
30 to 34 hours	7,276	236	7,041	7.0	6.6	7.0
35 hours and over	80,695	2,579	78,116	77.9	71.9	78.2
35 to 39 hours	7,014	191	6,823	6.8	5.3	6.8
40 hours	42,866	699	42,167	41.4	19.5	42.2
41 hours and over	30,815	1,689	29,126	29.8	47.1	29.1
41 to 48 hours	10,986	215	10,771	10.6	6.0	10.8
49 to 59 hours	11,134	490	10,644	10.8	13.7	10.7
60 hours and over	8,695	984	7,711	8.4	27.4	7.7
Average hours, total at work	39.9	45.1	39.7			
Average hours, workers on full-time schedules	43.9	53.6	43.6			

A-28. 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 1987					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over	22,832	6,636	16,196	21,826	6,388	15,438
Economic reasons	6,219	1,848	4,371	5,848	1,734	4,114
Slack work	2,387	1,469	918	2,203	1,380	823
Material shortages or repairs to plant and equipment	82	82	-	82	82	-
New job started during week	231	231	-	220	220	-
Job terminated during week	67	67	-	54	54	-
Could find only part-time work	3,452	-	3,452	3,290	-	3,290
Other reasons	16,613	4,787	11,826	15,979	4,655	11,324
Does not want, or unavailable for, full-time work	9,478	-	9,478	9,084	-	9,084
Vacation	2,069	2,069	-	2,043	2,043	-
Illness	1,172	1,029	143	1,150	1,021	129
Bad weather	166	166	-	127	127	-
Industrial dispute	8	8	-	8	8	-
Legal or religious holiday	47	47	-	47	47	-
Full time for this job	1,577	-	1,577	1,544	-	1,544
All other reasons	2,096	1,468	628	1,974	1,406	568
Average hours:						
Economic reasons	22.2	24.9	21.1	22.3	24.9	21.2
Other reasons	22.0	25.8	20.5	22.2	25.8	20.7
Worked 30 to 34 hours:						
Economic reasons	2,005	883	1,122	1,894	831	1,063
Other reasons	5,271	2,439	2,832	5,147	2,397	2,750

A-29. Persons at work in nonagricultural industries by class of worker and full- or part-time status

(Numbers in thousands)

Industry	July 1987								
	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	99,942	5,848	11,324	82,770	53,644	10,771	18,355	39.7	43.6
Wage and salary workers	92,054	5,266	9,975	76,813	51,129	10,132	15,552	39.6	43.2
Mining	752	25	12	715	384	91	240	46.4	47.7
Construction	6,270	467	234	5,569	3,650	702	1,217	41.1	43.4
Manufacturing	19,215	485	525	18,205	11,841	2,840	3,524	42.1	43.1
Durable goods	11,368	200	235	10,933	7,066	1,718	2,149	42.4	43.1
Nondurable goods	7,847	285	290	7,272	4,775	1,122	1,375	41.6	43.2
Transportation and public utilities	6,944	219	313	6,412	4,159	850	1,403	42.3	44.0
Wholesale and retail trade	20,408	2,032	3,679	14,697	8,896	2,243	3,558	37.8	43.9
Finance, insurance, and real estate	6,692	133	614	5,945	4,175	712	1,058	39.9	42.2
Service industries	26,708	1,814	4,386	20,508	14,417	2,202	3,889	37.6	42.6
Private households	1,290	287	513	490	354	42	94	25.4	43.9
All other industries	25,418	1,527	3,873	20,018	14,063	2,160	3,795	38.2	42.6
Public administration	5,065	87	212	4,766	3,610	492	664	40.9	42.1
Self-employed workers	7,620	567	1,249	5,804	2,439	616	2,749	42.0	49.2
Unpaid family workers	269	16	101	152	75	23	54	37.4	47.9

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-30. 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 1987							
	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	99,942	5,848	11,324	82,770	53,644	29,126	39.7	43.6
16 to 19 years	7,595	1,551	2,414	3,630	2,836	794	30.5	40.8
16 to 17 years	3,314	761	1,479	1,074	868	206	26.5	40.0
18 to 19 years	4,281	790	934	2,557	1,968	589	33.5	41.1
20 years and over	92,347	4,298	8,911	79,138	50,806	28,332	40.5	43.7
20 to 24 years	13,079	1,062	1,372	10,645	7,419	3,226	38.9	42.6
25 years and over	79,268	3,238	7,538	68,494	43,388	25,106	40.8	43.9
25 to 44 years	52,752	2,239	4,052	46,461	29,011	17,450	41.3	44.0
45 to 64 years	24,060	918	2,314	20,828	13,556	7,272	40.7	43.7
65 years and over	2,456	79	1,173	1,204	821	383	29.9	43.0
Men, 16 years and over	56,174	2,701	3,196	50,277	29,279	20,998	42.5	45.0
16 to 19 years	3,834	741	1,100	1,993	1,527	466	31.7	41.2
16 to 17 years	1,700	380	696	624	497	127	27.9	40.3
18 to 19 years	2,134	360	404	1,370	1,031	339	34.7	41.6
20 years and over	52,340	1,960	2,097	48,283	27,751	20,532	43.3	45.1
20 to 24 years	6,893	529	468	5,896	3,743	2,153	40.8	43.8
25 years and over	45,447	1,432	1,629	42,386	24,009	18,377	43.7	45.3
25 to 44 years	30,017	1,017	575	28,425	15,738	12,687	44.3	45.5
45 to 64 years	14,002	378	449	13,175	7,759	5,416	43.7	45.0
65 years and over	1,428	37	605	786	512	274	32.0	43.0
Women, 16 years and over	43,769	3,148	8,128	32,493	24,366	8,127	36.2	41.4
16 to 19 years	3,761	810	1,314	1,637	1,309	328	29.2	40.4
16 to 17 years	1,613	380	783	450	372	78	25.1	39.7
18 to 19 years	2,148	429	531	1,188	938	250	32.3	40.7
20 years and over	40,008	2,337	6,814	30,857	23,057	7,800	36.8	41.5
20 to 24 years	6,186	533	904	4,749	3,676	1,073	36.8	41.1
25 years and over	33,821	1,804	5,911	26,106	19,378	6,728	36.8	41.6
25 to 44 years	22,735	1,221	3,477	18,037	13,274	4,763	37.4	41.6
45 to 64 years	10,060	540	1,866	7,654	5,799	1,855	36.5	41.5
65 years and over	1,028	43	568	417	309	108	27.1	42.8
RACE								
White, 16 years and over	86,642	4,770	10,186	71,686	45,169	26,517	39.9	43.8
Men	49,267	2,205	2,809	44,253	24,953	19,300	42.8	45.2
Women	37,376	2,565	7,377	27,434	20,215	7,219	36.1	41.6
Black, 16 years and over	10,255	913	859	8,483	6,669	1,814	38.2	41.6
Men	5,239	418	296	4,525	3,344	1,181	39.9	42.7
Women	5,016	496	563	3,957	3,322	635	36.4	40.4
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	35,264	942	1,126	33,196	18,335	14,861	44.1	45.5
Widowed, divorced, or separated	5,379	229	200	4,950	2,839	2,111	43.4	45.3
Single (never married)	15,530	1,531	1,870	12,129	8,103	4,026	38.7	43.3
Women, 16 years and over:								
Married, spouse present	22,880	1,165	4,880	16,835	12,649	3,986	35.8	41.2
Widowed, divorced, or separated	8,397	576	1,016	6,805	4,842	1,963	37.9	41.9
Single (never married)	12,492	1,407	2,232	8,853	6,675	2,178	35.7	41.6

A-31. Persons at work in nonfarm occupations by sex and full- or part-time status

(Numbers in thousands)

Occupation and sex	July 1987								
	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 over¹	99,389	5,745	11,239	82,405	53,318	10,778	18,309	39.8	43.6
Managerial and professional specialty	23,508	474	1,875	21,159	11,972	2,583	6,604	42.6	45.1
Executive, administrative, and managerial	12,622	161	541	11,920	6,310	1,481	4,129	44.5	45.8
Professional specialty	10,866	313	1,334	9,239	5,662	1,102	2,475	40.4	44.1
Technical, sales, and administrative support	32,535	1,498	4,758	26,278	18,165	3,254	4,859	38.6	42.6
Technicians and related support	3,278	50	341	2,887	2,049	380	459	40.1	42.3
Sales occupations	12,675	882	2,068	9,725	5,195	1,307	3,223	40.1	45.6
Administrative support, including clerical	16,582	567	2,349	13,666	10,922	1,567	1,177	37.1	40.6
Service occupations	14,034	1,873	3,168	8,993	6,577	949	1,467	34.7	42.6
Private household	950	185	389	376	274	33	68	26.3	43.4
Protective service	1,808	59	102	1,647	1,027	225	395	42.9	44.9
Service, except private household and protective	11,277	1,629	2,677	6,971	5,276	691	1,004	34.1	42.0
Precision production, craft, and repair	12,772	663	402	11,707	7,233	1,837	2,637	42.3	44.1
Operators, fabricators, and laborers	16,541	1,236	1,037	14,268	9,371	2,155	2,742	40.6	43.4
Machine operators, assemblers, and inspectors	7,527	325	260	6,943	4,985	1,039	918	40.7	42.1
Transportation and material moving occupations	4,315	277	235	3,803	1,936	565	1,303	44.0	46.9
Handlers, equipment cleaners, helpers, and laborers	4,698	635	542	3,522	2,450	550	521	37.3	42.2
Men, 16 years and over¹	55,525	2,596	3,083	49,846	28,911	6,925	14,011	42.7	45.0
Managerial and professional specialty	13,985	221	531	13,233	6,677	1,557	4,998	45.1	46.5
Executive, administrative, and managerial	7,928	97	219	7,613	3,595	914	3,105	46.1	47.1
Professional specialty	6,057	125	312	5,620	3,083	644	1,894	43.8	45.7
Technical, sales, and administrative support	11,713	309	781	10,623	5,859	1,497	3,266	43.2	45.3
Technicians and related support	1,702	19	47	1,635	1,100	213	321	42.5	43.3
Sales occupations	6,599	185	475	5,940	2,615	826	2,498	45.0	47.5
Administrative support, including clerical	3,412	105	259	3,049	2,144	458	447	40.1	42.1
Service occupations	5,659	600	801	4,258	2,956	500	802	38.1	43.5
Private household	44	10	15	19	15	4	-	(²)	(²)
Protective service	1,543	46	72	1,426	870	201	355	43.5	45.2
Service, except private household and protective	4,072	545	714	2,814	2,070	296	447	36.2	42.6
Precision production, craft, and repair	11,722	581	276	10,866	6,618	1,736	2,512	42.7	44.3
Operators, fabricators, and laborers	12,446	885	695	10,866	6,800	1,634	2,432	41.4	44.1
Machine operators, assemblers, and inspectors	4,451	132	103	4,215	2,859	642	714	41.9	43.0
Transportation and material moving occupations	4,058	240	172	3,646	1,845	534	1,267	44.6	47.0
Handlers, equipment cleaners, helpers, and laborers	3,938	513	421	3,005	2,096	458	451	37.6	42.3
Women, 16 years and over¹	43,864	3,149	8,156	32,559	24,407	3,853	4,298	36.2	41.4
Managerial and professional specialty	9,523	253	1,344	7,926	5,294	1,025	1,606	38.9	42.7
Executive, administrative, and managerial	4,693	64	323	4,307	2,715	567	1,024	41.7	43.6
Professional specialty	4,829	189	1,021	3,619	2,579	458	582	36.1	41.6
Technical, sales, and administrative support	20,821	1,189	3,978	15,655	12,306	1,757	1,593	36.0	40.8
Technicians and related support	1,576	30	294	1,252	948	166	137	37.4	41.0
Sales occupations	6,076	697	1,593	3,785	2,579	481	725	34.7	42.6
Administrative support, including clerical	13,169	462	2,090	10,617	8,778	1,109	731	36.4	40.1
Service occupations	8,375	1,273	2,367	4,735	3,622	449	665	32.4	41.8
Private household	906	175	374	356	259	29	68	26.3	43.6
Protective service	264	13	30	221	157	24	40	39.5	43.1
Service, except private household and protective	7,205	1,084	1,963	4,157	3,206	395	556	32.9	41.5
Precision production, craft, and repair	1,050	82	126	841	615	101	125	37.8	41.7
Operators, fabricators, and laborers	4,095	351	341	3,402	2,571	521	310	38.0	41.0
Machine operators, assemblers, and inspectors	3,077	192	157	2,727	2,127	397	204	38.8	40.8
Transportation and material moving occupations	258	37	63	158	90	31	36	34.2	43.1
Handlers, equipment cleaners, helpers, and laborers	760	122	121	517	354	93	71	35.8	41.7

¹ Excludes farming, forestry, and fishing occupations.

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-32. 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	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
TOTAL													
Noninstitutional population ¹	182,354	182,525	182,713	182,935	183,114	183,297	183,575	183,738	183,915	184,079	184,259	184,421	184,605
Labor force ¹	119,789	119,821	119,988	120,163	120,426	120,336	120,782	121,089	120,958	121,070	121,719	121,235	121,672
Percent of population ²	65.7	65.6	65.7	65.7	65.8	65.7	65.8	65.9	65.8	65.8	66.1	65.7	65.9
Total employed ¹	111,559	111,764	111,703	111,941	112,183	112,387	112,759	113,122	113,104	113,570	114,173	113,975	114,447
Employment-population ratio ³	61.2	61.2	61.1	61.2	61.3	61.3	61.4	61.6	61.5	61.7	62.0	61.8	62.0
Resident Armed Forces	1,672	1,697	1,716	1,749	1,751	1,750	1,748	1,740	1,736	1,735	1,726	1,718	1,720
Civilian employed	109,887	110,067	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447	112,257	112,727
Agriculture	3,124	3,057	3,142	3,162	3,215	3,161	3,145	3,236	3,284	3,290	3,335	3,178	3,219
Nonagricultural industries	106,763	107,010	106,845	107,030	107,217	107,476	107,866	108,146	108,084	108,545	109,112	109,079	109,508
Unemployed	8,230	8,057	8,285	8,222	8,243	7,949	8,023	7,967	7,854	7,500	7,546	7,260	7,224
Unemployment rate ⁴	6.9	6.7	6.9	6.8	6.8	6.6	6.6	6.6	6.5	6.2	6.2	6.0	5.9
Not in labor force	62,565	62,704	62,725	62,772	62,688	62,961	62,793	62,649	62,957	63,009	62,540	63,187	62,933
Men													
Noninstitutional population ¹	87,373	87,460	87,556	87,682	87,773	87,868	88,020	88,099	88,186	88,271	88,361	88,442	88,534
Labor force ¹	66,968	66,911	67,128	67,130	67,407	67,425	67,672	67,764	67,644	67,603	67,816	67,556	67,656
Percent of population ²	76.6	76.5	76.7	76.6	76.8	76.7	76.9	76.9	76.7	76.6	76.7	76.4	76.4
Total employed ¹	62,402	62,483	62,528	62,565	62,833	62,986	63,187	63,335	63,282	63,417	63,562	63,471	63,715
Employment-population ratio ³	71.4	71.4	71.4	71.4	71.6	71.7	71.8	71.9	71.8	71.8	71.9	71.8	72.0
Resident Armed Forces	1,518	1,541	1,560	1,590	1,592	1,593	1,591	1,584	1,575	1,575	1,566	1,559	1,561
Civilian employed	60,884	60,942	60,968	60,975	61,241	61,393	61,596	61,751	61,707	61,842	61,996	61,912	62,154
Unemployed	4,566	4,428	4,600	4,565	4,574	4,439	4,484	4,429	4,362	4,186	4,254	4,085	3,941
Unemployment rate ⁴	6.8	6.6	6.9	6.8	6.8	6.6	6.6	6.5	6.4	6.2	6.3	6.0	5.8
Not in labor force	20,405	20,549	20,428	20,552	20,366	20,443	20,348	20,335	20,542	20,668	20,545	20,886	20,878
Women													
Noninstitutional population ¹	94,981	95,065	95,156	95,253	95,341	95,429	95,556	95,639	95,729	95,808	95,898	95,979	96,071
Labor force ¹	52,821	52,910	52,860	53,033	53,019	52,911	53,110	53,325	53,314	53,467	53,903	53,679	54,016
Percent of population ²	55.6	55.7	55.6	55.7	55.6	55.4	55.6	55.8	55.7	55.8	56.2	55.9	56.2
Total employed ¹	49,157	49,281	49,175	49,376	49,350	49,401	49,572	49,787	49,822	50,153	50,611	50,504	50,733
Employment-population ratio ³	51.8	51.8	51.7	51.8	51.8	51.8	51.9	52.1	52.0	52.3	52.8	52.6	52.8
Resident Armed Forces	154	156	156	159	159	157	157	156	161	160	160	159	159
Civilian employed	49,003	49,125	49,019	49,217	49,191	49,244	49,415	49,631	49,661	49,993	50,451	50,345	50,574
Unemployed	3,664	3,629	3,685	3,657	3,669	3,510	3,538	3,538	3,492	3,314	3,292	3,175	3,283
Unemployment rate ⁴	6.9	6.9	7.0	6.9	6.9	6.6	6.7	6.6	6.6	6.2	6.1	5.9	6.1
Not in labor force	42,160	42,155	42,296	42,220	42,322	42,518	42,446	42,314	42,415	42,341	41,995	42,300	42,055

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-32 through A-41 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

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

(Numbers in thousands)

Employment status, sex, and age	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
TOTAL													
Civilian noninstitutional population ¹	180,682	180,828	180,997	181,186	181,363	181,547	181,827	181,998	182,179	182,344	182,533	182,703	182,885
Civilian labor force	118,117	118,124	118,272	118,414	118,675	118,586	119,034	119,349	119,222	119,335	119,993	119,517	119,952
Percent of population	65.4	65.3	65.3	65.4	65.4	65.3	65.5	65.6	65.4	65.4	65.7	65.4	65.6
Employed	109,887	110,067	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447	112,257	112,727
Employment-population ratio ²	60.8	60.9	60.8	60.8	60.9	60.9	61.1	61.2	61.1	61.3	61.6	61.4	61.6
Unemployed	8,230	8,057	8,285	8,222	8,243	7,949	8,023	7,967	7,854	7,500	7,546	7,260	7,224
Unemployment rate	7.0	6.8	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.3	6.3	6.1	6.0
Men, 20 years and over													
Civilian noninstitutional population ¹	78,586	78,634	78,722	78,802	78,874	78,973	79,132	79,216	79,303	79,387	79,474	79,536	79,625
Civilian labor force	61,355	61,219	61,412	61,409	61,703	61,826	61,948	61,973	61,983	61,976	62,156	62,057	62,116
Percent of population	78.1	77.9	78.0	77.9	78.2	78.3	78.3	78.2	78.2	78.1	78.2	78.0	78.0
Employed	57,544	57,585	57,607	57,595	57,883	58,101	58,227	58,325	58,410	58,567	58,721	58,620	58,793
Employment-population ratio ²	73.2	73.2	73.2	73.1	73.4	73.6	73.6	73.6	73.7	73.8	73.9	73.7	73.8
Agriculture	2,275	2,185	2,286	2,297	2,303	2,289	2,254	2,300	2,411	2,411	2,441	2,307	2,343
Nonagricultural industries	55,269	55,400	55,321	55,298	55,580	55,812	55,974	56,024	55,999	56,155	56,280	56,313	56,450
Unemployed	3,811	3,634	3,805	3,814	3,820	3,725	3,720	3,648	3,573	3,409	3,436	3,437	3,323
Unemployment rate	6.2	5.9	6.2	6.2	6.2	6.0	6.0	5.9	5.8	5.5	5.5	5.5	5.4
Not in labor force	17,231	17,415	17,310	17,393	17,171	17,147	17,184	17,243	17,320	17,411	17,318	17,479	17,509
Women, 20 years and over													
Civilian noninstitutional population ¹	87,629	87,689	87,779	87,856	87,933	88,016	88,150	88,237	88,321	88,395	88,464	88,546	88,632
Civilian labor force	48,879	48,950	48,920	49,014	49,043	48,923	49,161	49,348	49,355	49,466	49,774	49,714	49,971
Percent of population	55.8	55.8	55.7	55.8	55.8	55.6	55.8	55.9	55.9	56.0	56.3	56.1	56.4
Employed	45,869	45,956	45,905	46,020	46,067	46,058	46,261	46,475	46,498	46,751	47,094	47,126	47,288
Employment-population ratio ²	52.3	52.4	52.3	52.4	52.4	52.3	52.5	52.7	52.6	52.9	53.2	53.2	53.4
Agriculture	607	622	614	612	675	621	628	641	589	587	634	615	619
Nonagricultural industries	45,262	45,334	45,291	45,408	45,392	45,437	45,633	45,835	45,909	46,164	46,460	46,512	46,669
Unemployed	3,010	2,994	3,015	2,994	2,976	2,865	2,900	2,873	2,857	2,715	2,680	2,588	2,683
Unemployment rate	6.2	6.1	6.2	6.1	6.1	5.9	5.9	5.8	5.8	5.5	5.4	5.2	5.4
Not in labor force	38,750	38,739	38,859	38,842	38,890	39,093	38,989	38,889	38,966	38,929	38,690	38,832	38,661
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,467	14,505	14,496	14,527	14,557	14,558	14,545	14,546	14,555	14,562	14,595	14,621	14,628
Civilian labor force	7,883	7,955	7,940	7,991	7,929	7,837	7,926	8,028	7,884	7,894	8,063	7,746	7,865
Percent of population	54.5	54.8	54.8	55.0	54.5	53.8	54.5	55.2	54.2	54.2	55.2	53.0	53.8
Employed	6,474	6,526	6,475	6,577	6,482	6,478	6,524	6,582	6,460	6,518	6,633	6,511	6,647
Employment-population ratio ²	44.8	45.0	44.7	45.3	44.5	44.5	44.9	45.2	44.4	44.8	45.4	44.5	45.4
Agriculture	242	250	242	253	237	251	264	295	284	292	261	257	258
Nonagricultural industries	6,232	6,276	6,233	6,324	6,245	6,227	6,260	6,287	6,176	6,226	6,372	6,254	6,389
Unemployed	1,409	1,429	1,465	1,414	1,447	1,359	1,402	1,446	1,424	1,376	1,430	1,235	1,218
Unemployment rate	17.9	18.0	18.5	17.7	18.2	17.3	17.7	18.0	18.1	17.4	17.7	15.9	15.5
Not in labor force	6,584	6,550	6,556	6,536	6,628	6,721	6,619	6,518	6,671	6,668	6,532	6,875	6,763

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-34. 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	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
WHITE													
Civilian noninstitutional population ¹	155,502	155,604	155,723	155,856	155,979	156,111	156,313	156,431	156,561	156,676	156,811	156,930	157,058
Civilian labor force	102,015	102,122	102,158	102,297	102,455	102,503	102,746	102,893	102,797	102,894	103,573	103,106	103,272
Percent of population	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.8	65.7	65.7	66.1	65.7	65.8
Employed	95,861	96,177	96,000	96,147	96,281	96,533	96,717	96,995	96,998	97,340	98,050	97,716	97,958
Employment-population ratio ²	61.6	61.8	61.6	61.7	61.7	61.8	61.9	62.0	62.0	62.1	62.5	62.3	62.4
Unemployed	6,154	5,945	6,158	6,150	6,174	5,970	6,029	5,898	5,799	5,554	5,524	5,390	5,314
Unemployment rate	6.0	5.8	6.0	6.0	6.0	5.8	5.9	5.7	5.6	5.4	5.3	5.2	5.1
Men, 20 years and over													
Civilian labor force	53,639	53,583	53,727	53,757	54,015	54,172	54,182	54,175	54,107	54,051	54,314	54,213	54,214
Percent of population	78.4	78.2	78.4	78.3	78.7	78.8	78.7	78.6	78.4	78.3	78.6	78.4	78.3
Employed	50,731	50,877	50,845	50,845	51,089	51,286	51,297	51,362	51,364	51,462	51,755	51,581	51,682
Employment-population ratio ²	74.1	74.3	74.2	74.1	74.4	74.6	74.5	74.5	74.5	74.6	74.9	74.6	74.7
Unemployed	2,908	2,706	2,882	2,912	2,926	2,886	2,885	2,813	2,743	2,589	2,558	2,632	2,532
Unemployment rate	5.4	5.1	5.4	5.4	5.4	5.3	5.3	5.2	5.1	4.8	4.7	4.9	4.7
Women, 20 years and over													
Civilian labor force	41,584	41,640	41,547	41,598	41,540	41,514	41,680	41,762	41,828	41,982	42,239	42,159	42,280
Percent of population	55.3	55.4	55.2	55.2	55.1	55.0	55.2	55.2	55.3	55.5	55.8	55.6	55.7
Employed	39,368	39,466	39,365	39,431	39,399	39,456	39,568	39,735	39,839	40,041	40,343	40,318	40,379
Employment-population ratio ²	52.4	52.5	52.3	52.3	52.3	52.3	52.4	52.6	52.7	52.9	53.2	53.2	53.2
Unemployed	2,216	2,174	2,182	2,167	2,141	2,058	2,111	2,028	1,989	1,941	1,895	1,841	1,902
Unemployment rate	5.3	5.2	5.3	5.2	5.2	5.0	5.1	4.9	4.8	4.6	4.5	4.4	4.5
Both sexes, 16 to 19 years													
Civilian labor force	6,792	6,899	6,884	6,942	6,900	6,817	6,885	6,955	6,862	6,861	7,021	6,734	6,778
Percent of population	57.2	58.1	57.9	58.4	58.0	57.3	57.8	58.4	57.5	57.4	58.7	58.3	56.6
Employed	5,762	5,834	5,790	5,871	5,793	5,791	5,852	5,898	5,795	5,837	5,951	5,817	5,898
Employment-population ratio ²	48.5	49.1	48.7	49.4	48.7	48.7	49.2	49.5	48.5	48.9	49.8	48.6	49.3
Unemployed	1,030	1,065	1,094	1,071	1,107	1,026	1,033	1,057	1,067	1,024	1,070	917	880
Unemployment rate	15.2	15.4	15.9	15.4	16.0	15.1	15.0	15.2	15.5	14.9	15.2	13.6	13.0
Men	15.6	16.6	16.6	15.7	16.3	15.5	16.1	16.0	17.1	16.7	17.3	14.5	13.0
Women	14.7	14.2	15.1	15.2	15.7	14.6	13.8	14.3	13.9	13.1	13.1	12.7	13.0
BLACK													
Civilian noninstitutional population ¹	20,002	20,028	20,056	20,089	20,120	20,152	20,187	20,218	20,249	20,279	20,312	20,341	20,373
Civilian labor force	12,611	12,553	12,652	12,720	12,719	12,707	12,831	12,957	12,844	12,743	12,860	12,863	13,047
Percent of population	63.0	62.7	63.1	63.3	63.2	63.1	63.6	64.1	63.4	62.8	63.3	63.2	64.0
Employed	10,822	10,716	10,799	10,895	10,910	10,968	10,987	11,101	11,053	11,090	11,080	11,223	11,401
Employment-population ratio ²	54.1	53.5	53.8	54.2	54.2	54.4	54.5	54.9	54.6	54.7	54.6	55.2	56.0
Unemployed	1,789	1,837	1,853	1,825	1,809	1,739	1,833	1,855	1,791	1,653	1,779	1,640	1,647
Unemployment rate	14.2	14.6	14.6	14.3	14.2	13.7	14.3	14.3	13.9	13.0	13.8	12.7	12.6
Men, 20 years and over													
Civilian labor force	5,939	5,885	5,906	5,932	5,934	5,947	5,986	6,012	5,997	5,980	6,033	6,001	6,089
Percent of population	75.0	74.2	74.4	74.6	74.5	74.5	74.9	75.1	74.8	74.4	75.0	74.5	75.4
Employed	5,170	5,110	5,116	5,153	5,171	5,244	5,256	5,288	5,305	5,328	5,279	5,311	5,404
Employment-population ratio ²	65.3	64.5	64.5	64.8	65.0	65.7	66.0	66.1	66.3	66.3	65.6	65.9	66.9
Unemployed	769	775	790	779	763	703	730	724	692	652	754	690	686
Unemployment rate	12.9	13.2	13.4	13.1	12.9	11.8	12.2	12.0	11.5	10.9	12.5	11.5	11.3
Women, 20 years and over													
Civilian labor force	5,848	5,841	5,872	5,909	5,943	5,907	5,984	6,030	5,987	5,918	5,970	6,017	6,125
Percent of population	58.8	58.6	58.8	59.1	59.3	58.9	59.6	59.9	59.4	58.7	59.1	59.5	60.4
Employed	5,141	5,112	5,145	5,178	5,200	5,182	5,221	5,255	5,211	5,238	5,278	5,349	5,426
Employment-population ratio ²	51.6	51.3	51.5	51.8	51.9	51.7	52.0	52.2	51.7	51.9	52.2	52.9	53.5
Unemployed	707	729	727	731	743	725	763	775	776	680	691	669	699
Unemployment rate	12.1	12.5	12.4	12.4	12.5	12.3	12.8	12.9	13.0	11.5	11.6	11.1	11.4

See footnotes at end of table.

A-34. 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	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	824	827	874	879	842	853	860	915	861	845	857	844	833
Percent of population ..	38.7	38.8	40.9	41.1	39.3	39.8	40.1	42.6	40.0	39.2	39.7	39.0	38.4
Employed	511	494	538	564	539	542	520	559	537	524	523	563	571
Employment-population ratio ²	24.0	23.1	25.2	26.3	25.1	25.3	24.2	26.0	24.9	24.3	24.2	26.0	26.3
Unemployed	313	333	336	315	303	311	340	356	324	321	334	281	262
Unemployment rate	38.0	40.3	38.4	35.8	36.0	36.5	39.5	38.9	37.6	38.0	39.0	33.3	31.5
Men	40.5	38.8	38.6	37.8	35.0	36.1	36.5	38.3	36.5	39.3	40.3	31.5	31.5
Women	35.0	41.9	38.3	33.8	37.0	36.9	43.2	39.5	38.8	36.5	37.6	35.1	31.4
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	12,362	12,397	12,432	12,469	12,505	12,540	12,653	12,692	12,732	12,770	12,809	12,848	12,887
Civilian labor force	8,121	8,130	8,179	8,200	8,226	8,320	8,431	8,457	8,392	8,484	8,586	8,452	8,411
Percent of population	65.7	65.6	65.8	65.8	65.8	66.3	66.6	66.6	65.9	66.4	67.0	65.8	65.3
Employed	7,269	7,248	7,286	7,345	7,437	7,446	7,538	7,644	7,639	7,701	7,838	7,730	7,744
Employment-population ratio ²	58.8	58.5	58.6	58.9	59.5	59.4	59.6	60.2	60.3	61.2	60.2	60.2	60.1
Unemployed	852	882	893	855	789	874	893	813	753	783	748	722	667
Unemployment rate	10.5	10.8	10.9	10.4	9.6	10.5	10.6	9.6	9.0	9.2	8.7	8.5	7.9

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-35. Employed civilians by selected social and economic categories, seasonally adjusted

(In thousands)

Category	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
CHARACTERISTIC													
Total	109,887	110,067	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447	112,257	112,727
Married men, spouse present	39,634	39,735	39,691	39,780	39,952	40,093	40,102	39,913	40,100	39,967	40,029	40,057	40,241
Married women, spouse present	27,474	27,388	27,249	27,323	27,333	27,400	27,525	27,817	27,965	28,213	28,495	28,458	28,426
Women who maintain families	5,812	5,832	5,926	6,016	6,041	6,005	5,985	5,906	5,933	5,972	5,921	5,939	6,013
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,504	1,509	1,521	1,562	1,582	1,621	1,650	1,647	1,739	1,589	1,695	1,614	1,619
Self-employed workers	1,434	1,387	1,460	1,451	1,425	1,400	1,370	1,454	1,418	1,505	1,442	1,386	1,429
Unpaid family workers	171	174	159	164	198	152	136	126	150	175	170	165	154
Nonagricultural industries:													
Wage and salary workers	98,312	98,586	98,692	98,846	98,869	99,164	99,550	99,748	99,834	100,112	100,834	100,420	100,838
Government	16,582	16,446	16,333	16,264	16,457	16,443	16,412	16,532	16,568	16,484	16,710	16,956	16,931
Private industries	81,730	82,140	82,359	82,582	82,412	82,721	83,138	83,216	83,265	83,628	84,124	83,464	83,907
Private households	1,241	1,247	1,229	1,216	1,183	1,189	1,269	1,204	1,227	1,266	1,266	1,146	1,224
Other industries	80,489	80,893	81,130	81,366	81,229	81,532	81,869	82,012	82,038	82,362	82,858	82,318	82,683
Self-employed workers	8,019	7,956	7,939	7,993	8,179	8,056	8,192	8,187	8,050	8,117	8,142	8,328	8,205
Unpaid family workers	258	271	275	265	252	239	246	255	273	268	275	274	268
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,442	5,471	5,544	5,740	5,563	5,596	5,505	5,780	5,456	5,391	5,282	5,184	5,508
Slack work	2,473	2,417	2,472	2,481	2,510	2,444	2,473	2,535	2,440	2,322	2,223	2,317	2,456
Could only find part-time work	2,661	2,741	2,772	2,826	2,714	2,867	2,695	2,828	2,698	2,746	2,665	2,579	2,722
Voluntary part time	13,967	13,981	13,922	14,178	14,021	13,877	14,170	14,061	14,167	13,862	14,573	15,054	14,422
Nonagricultural industries:													
Part time for economic reasons	5,222	5,269	5,303	5,450	5,319	5,342	5,201	5,459	5,164	5,110	5,029	4,918	5,235
Slack work	2,317	2,283	2,314	2,314	2,366	2,286	2,281	2,340	2,218	2,137	2,071	2,155	2,295
Could only find part-time work	2,609	2,678	2,710	2,739	2,626	2,765	2,599	2,742	2,595	2,662	2,594	2,477	2,634
Voluntary part time	13,578	13,606	13,520	13,736	13,567	13,455	13,750	13,597	13,682	13,399	14,069	14,485	13,946

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-36. Employed civilians by sex and age, seasonally adjusted

(In thousands)

Sex and age	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	109,887	110,067	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447	112,257	112,727
16 to 24 years	20,268	20,281	20,163	20,263	20,201	20,093	20,237	20,293	20,113	20,111	20,215	19,988	20,197
16 to 19 years	6,474	6,526	6,475	6,577	6,482	6,478	6,524	6,582	6,460	6,518	6,633	6,511	6,647
16 to 17 years	2,605	2,593	2,670	2,714	2,648	2,717	2,713	2,727	2,688	2,619	2,689	2,661	2,774
18 to 19 years	3,830	3,903	3,804	3,877	3,843	3,771	3,816	3,844	3,809	3,876	3,932	3,843	3,858
20 to 24 years	13,794	13,755	13,688	13,686	13,719	13,615	13,713	13,711	13,652	13,593	13,582	13,477	13,550
25 years and over	89,730	89,792	89,796	89,899	90,221	90,524	90,725	91,104	91,290	91,660	92,257	92,319	92,615
25 to 54 years	75,207	75,405	75,582	75,714	75,889	76,247	76,281	76,680	76,844	77,338	77,663	77,766	78,077
55 years and over	14,447	14,445	14,269	14,223	14,341	14,349	14,450	14,363	14,426	14,345	14,450	14,574	14,473
Men, 16 years and over	60,884	60,942	60,968	60,975	61,241	61,393	61,596	61,751	61,707	61,842	61,996	61,912	62,154
16 to 24 years	10,590	10,567	10,528	10,587	10,546	10,449	10,526	10,608	10,452	10,427	10,369	10,288	10,452
16 to 19 years	3,340	3,357	3,361	3,380	3,358	3,292	3,369	3,426	3,297	3,275	3,276	3,292	3,360
16 to 17 years	1,357	1,325	1,399	1,391	1,353	1,373	1,395	1,425	1,355	1,336	1,350	1,355	1,434
18 to 19 years	1,970	2,005	1,965	2,003	2,009	1,933	1,974	2,000	1,945	1,936	1,919	1,930	1,916
20 to 24 years	7,250	7,210	7,167	7,207	7,188	7,157	7,156	7,182	7,155	7,152	7,094	6,996	7,092
25 years and over	50,321	50,393	50,419	50,348	50,705	50,943	51,053	51,207	51,278	51,396	51,648	51,598	51,729
25 to 54 years	41,884	42,050	42,124	42,049	42,278	42,485	42,569	42,702	42,729	42,925	42,997	43,065	43,180
55 years and over	8,402	8,357	8,323	8,329	8,428	8,507	8,458	8,470	8,546	8,476	8,561	8,573	8,510
Women, 16 years and over	49,003	49,125	49,019	49,217	49,191	49,244	49,415	49,631	49,661	49,993	50,451	50,345	50,574
16 to 24 years	9,678	9,714	9,635	9,676	9,655	9,644	9,711	9,685	9,661	9,683	9,845	9,700	9,744
16 to 19 years	3,134	3,169	3,114	3,197	3,124	3,186	3,154	3,155	3,163	3,242	3,357	3,219	3,286
16 to 17 years	1,248	1,268	1,271	1,323	1,295	1,344	1,318	1,302	1,333	1,283	1,339	1,306	1,340
18 to 19 years	1,860	1,898	1,839	1,874	1,834	1,838	1,842	1,844	1,864	1,940	2,013	1,913	1,942
20 to 24 years	6,544	6,545	6,521	6,479	6,531	6,458	6,557	6,529	6,498	6,441	6,489	6,482	6,458
25 years and over	39,409	39,399	39,377	39,551	39,516	39,581	39,672	39,897	40,012	40,264	40,609	40,721	40,886
25 to 54 years	33,323	33,355	33,458	33,665	33,611	33,762	33,712	33,978	34,116	34,412	34,666	34,700	34,896
55 years and over	6,045	6,088	5,946	5,894	5,913	5,842	5,992	5,893	5,879	5,869	5,888	6,000	5,963

A-37. Unemployed persons by sex and age, seasonally adjusted

(In thousands)

Sex and age	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	8,230	8,057	8,285	8,222	8,243	7,949	8,023	7,967	7,854	7,500	7,546	7,260	7,224
16 to 24 years	3,071	3,001	3,173	3,022	3,005	2,986	3,045	3,049	2,969	2,901	2,912	2,768	2,686
16 to 19 years	1,409	1,429	1,465	1,414	1,447	1,359	1,402	1,446	1,424	1,376	1,430	1,235	1,218
16 to 17 years	642	641	668	647	686	629	683	693	670	623	734	617	573
18 to 19 years	740	787	790	766	768	737	735	765	753	756	696	609	623
20 to 24 years	1,662	1,572	1,708	1,608	1,558	1,627	1,643	1,603	1,545	1,525	1,482	1,533	1,468
25 years and over	5,148	5,087	5,130	5,197	5,230	4,961	5,024	4,912	4,872	4,588	4,621	4,454	4,532
25 to 54 years	4,584	4,525	4,523	4,597	4,630	4,422	4,552	4,459	4,363	4,079	4,102	4,013	4,090
55 years and over	574	561	587	603	571	527	477	452	509	512	548	474	457
Men, 16 years and over	4,566	4,428	4,600	4,565	4,574	4,439	4,484	4,429	4,362	4,186	4,254	4,085	3,941
16 to 24 years	1,660	1,625	1,761	1,615	1,635	1,623	1,626	1,673	1,589	1,583	1,604	1,485	1,406
16 to 19 years	755	794	795	751	754	714	764	781	789	777	818	648	618
16 to 17 years	345	350	373	344	366	325	380	383	344	366	407	312	285
18 to 19 years	395	441	416	409	388	395	401	410	444	411	412	324	307
20 to 24 years	905	831	966	864	881	909	862	892	800	806	786	837	788
25 years and over	2,896	2,835	2,857	2,945	2,931	2,809	2,901	2,760	2,758	2,597	2,636	2,563	2,530
25 to 54 years	2,548	2,471	2,472	2,558	2,568	2,462	2,578	2,461	2,435	2,276	2,299	2,285	2,244
55 years and over	350	356	364	385	361	351	310	293	316	330	363	305	299
Women, 16 years and over	3,664	3,629	3,685	3,657	3,669	3,510	3,538	3,538	3,492	3,314	3,292	3,175	3,283
16 to 24 years	1,411	1,376	1,412	1,407	1,370	1,363	1,419	1,375	1,380	1,319	1,308	1,284	1,280
16 to 19 years	654	635	670	663	693	645	638	665	635	599	612	587	600
16 to 17 years	297	291	295	303	320	304	303	310	326	257	327	305	288
18 to 19 years	345	346	374	357	380	342	334	355	309	345	284	285	316
20 to 24 years	757	741	742	744	677	718	781	710	745	720	696	697	680
25 years and over	2,252	2,252	2,273	2,252	2,299	2,152	2,124	2,152	2,113	1,991	1,985	1,891	2,002
25 to 54 years	2,036	2,054	2,051	2,039	2,062	1,960	1,974	1,998	1,928	1,803	1,803	1,729	1,846
55 years and over	224	205	223	218	210	176	167	158	193	183	185	170	158

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

(Civilian workers)

Sex and age	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	7.0	6.8	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.3	6.3	6.1	6.0
16 to 24 years	13.2	12.9	13.6	13.0	12.9	12.9	13.1	13.1	12.9	12.6	12.6	12.2	11.7
16 to 19 years	17.9	18.0	18.5	17.7	18.2	17.3	17.7	18.0	18.1	17.4	17.7	15.9	15.5
16 to 17 years	19.8	19.8	20.0	19.3	20.6	18.8	20.1	20.3	20.0	19.2	21.4	18.8	17.1
18 to 19 years	16.2	16.8	17.2	16.5	16.7	16.3	16.2	16.6	16.5	16.3	15.0	13.7	13.9
20 to 24 years	10.8	10.3	11.1	10.5	10.2	10.7	10.7	10.5	10.2	10.1	9.8	10.2	9.8
25 years and over	5.4	5.4	5.4	5.5	5.5	5.2	5.2	5.1	5.1	4.8	4.8	4.6	4.7
25 to 54 years	5.7	5.7	5.6	5.7	5.8	5.5	5.6	5.5	5.4	5.0	5.0	4.9	5.0
55 years and over	3.8	3.7	4.0	4.1	3.8	3.5	3.2	3.0	3.4	3.4	3.7	3.2	3.1
Men, 16 years and over	7.0	6.8	7.0	7.0	6.9	6.7	6.8	6.7	6.6	6.3	6.4	6.2	6.0
16 to 24 years	13.6	13.3	14.3	13.2	13.4	13.4	13.4	13.6	13.2	13.2	13.4	12.6	11.9
16 to 19 years	18.4	19.1	19.1	18.2	18.3	17.8	18.5	18.6	19.3	19.2	20.0	16.4	15.5
16 to 17 years	20.3	20.9	21.0	19.8	21.3	19.1	21.4	21.2	20.2	21.5	23.2	18.7	16.6
18 to 19 years	16.7	18.0	17.5	17.0	16.2	17.0	16.9	17.0	18.6	17.5	17.7	14.4	13.8
20 to 24 years	11.1	10.3	11.9	10.7	10.9	11.3	10.7	11.1	10.1	10.1	10.0	10.7	10.0
25 years and over	5.4	5.3	5.4	5.5	5.5	5.2	5.4	5.1	5.1	4.8	4.9	4.7	4.7
25 to 54 years	5.7	5.6	5.5	5.7	5.7	5.5	5.7	5.4	5.4	5.0	5.1	5.0	4.9
55 years and over	4.0	4.1	4.2	4.4	4.1	4.0	3.5	3.3	3.6	3.7	4.1	3.4	3.4
Women, 16 years and over	7.0	6.9	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.2	6.1	5.9	6.1
16 to 24 years	12.7	12.4	12.8	12.7	12.4	12.4	12.7	12.4	12.5	12.0	11.7	11.7	11.6
16 to 19 years	17.3	16.7	17.7	17.2	18.2	16.8	16.8	17.4	16.7	15.6	15.4	15.4	15.4
16 to 17 years	19.2	18.7	18.8	18.6	19.8	18.4	18.7	19.2	19.7	16.7	19.6	18.9	17.7
18 to 19 years	15.6	15.4	16.9	16.0	17.2	15.7	15.3	16.1	14.2	15.1	12.4	13.0	14.0
20 to 24 years	10.4	10.2	10.2	10.3	9.4	10.0	10.6	9.8	10.3	10.1	9.7	9.7	9.5
25 years and over	5.4	5.4	5.5	5.4	5.5	5.2	5.1	5.1	5.0	4.7	4.7	4.4	4.7
25 to 54 years	5.8	5.8	5.8	5.7	5.8	5.5	5.5	5.6	5.4	5.0	4.9	4.7	5.0
55 years and over	3.6	3.3	3.6	3.6	3.4	2.9	2.7	2.6	3.2	3.0	3.0	2.8	2.6

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
CHARACTERISTIC													
Total (all civilian workers)	7.0	6.8	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.3	6.3	6.1	6.0
Men, 20 years and over	6.2	5.9	6.2	6.2	6.2	6.0	6.0	5.9	5.8	5.5	5.5	5.5	5.4
Women, 20 years and over	6.2	6.1	6.2	6.1	6.1	5.9	5.9	5.8	5.8	5.5	5.4	5.2	5.4
Both sexes, 16 to 19 years	17.9	18.0	18.5	17.7	18.2	17.3	17.7	18.0	18.1	17.4	17.7	15.9	15.5
White	6.0	5.8	6.0	6.0	6.0	5.8	5.9	5.7	5.6	5.4	5.3	5.2	5.1
Black and other	12.7	13.1	13.1	12.7	12.7	12.3	12.6	12.8	12.5	11.7	12.2	11.4	11.3
Black	14.2	14.6	14.6	14.3	14.2	13.7	14.3	14.3	13.9	13.0	13.8	12.7	12.6
Hispanic origin	10.5	10.8	10.9	10.4	9.6	10.5	10.6	9.6	9.0	9.2	8.7	8.5	7.9
Married men, spouse present	4.4	4.2	4.3	4.6	4.5	4.3	4.2	4.2	4.1	4.1	3.9	4.0	3.8
Married women, spouse present	5.2	5.1	5.1	5.0	5.0	4.8	4.8	4.8	4.5	4.4	4.1	4.0	4.2
Women who maintain families	9.5	10.1	9.8	8.9	9.7	9.8	9.8	9.5	9.7	9.3	9.6	9.7	9.4
Full-time workers	6.6	6.4	6.6	6.6	6.6	6.3	6.4	6.3	6.2	5.9	5.9	5.9	5.7
Part-time workers	9.2	9.3	9.3	9.2	9.1	8.8	9.0	8.7	9.2	8.6	8.7	6.9	7.9
Unemployed 15 weeks and over ¹	1.9	1.9	2.0	1.8	1.9	1.8	1.8	1.8	1.7	1.7	1.8	1.7	1.6
Labor force time lost ²	7.8	7.7	7.9	7.8	7.7	7.6	7.6	7.6	7.4	7.3	7.2	7.1	6.9
INDUSTRY													
Nonagricultural private wage and salary workers	7.1	6.9	7.0	7.0	7.0	6.8	6.7	6.6	6.5	6.2	6.3	6.2	6.1
Mining	16.6	16.6	13.9	14.5	14.5	14.1	14.0	12.4	9.3	11.1	12.9	10.8	7.8
Construction	13.0	12.4	12.9	13.8	15.1	13.7	12.2	11.6	12.5	11.9	12.1	11.6	10.7
Manufacturing	6.9	6.9	7.0	7.3	7.1	6.9	6.8	6.8	6.9	6.2	6.4	5.6	6.0
Durable goods	6.7	6.8	6.5	7.2	6.6	6.4	6.8	6.8	6.7	6.2	6.3	5.3	6.1
Nondurable goods	7.2	6.9	7.7	7.3	7.9	7.7	6.8	6.9	7.3	6.2	6.6	6.0	5.9
Transportation and public utilities	5.5	4.8	4.7	5.2	4.4	4.6	4.8	4.0	4.6	4.8	4.4	5.0	4.4
Wholesale and retail trade	7.8	7.5	7.6	7.4	7.2	7.2	7.5	7.2	7.3	7.0	6.9	7.2	6.8
Finance and service industries	5.7	5.6	5.6	5.4	5.4	5.1	5.2	5.4	4.9	4.7	4.8	4.8	5.1
Agricultural wage and salary workers	11.4	13.3	12.9	11.9	10.1	11.5	11.6	11.2	10.7	9.0	8.7	8.8	11.3

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.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-40. Unemployed persons by duration of unemployment, seasonally adjusted

(Numbers in thousands)

Weeks of unemployment	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
DURATION													
Less than 5 weeks	3,399	3,436	3,415	3,418	3,382	3,355	3,416	3,361	3,383	3,143	3,349	3,085	3,168
5 to 14 weeks	2,521	2,407	2,524	2,563	2,613	2,389	2,530	2,477	2,447	2,232	2,118	2,114	2,141
15 weeks and over	2,250	2,272	2,373	2,168	2,217	2,171	2,200	2,131	2,050	2,075	2,101	2,055	1,907
15 to 26 weeks	1,058	1,068	1,110	950	1,045	1,023	1,022	1,008	945	1,025	1,003	998	945
27 weeks and over	1,192	1,204	1,263	1,218	1,172	1,148	1,178	1,123	1,105	1,049	1,098	1,057	962
Average (mean) duration, in weeks	15.1	15.6	15.5	15.2	14.8	15.0	15.0	14.6	14.9	14.9	14.9	14.8	14.0
Median duration, in weeks	7.1	7.1	7.1	7.0	7.0	7.1	7.0	6.6	6.6	7.0	6.5	6.7	6.7
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	41.6	42.3	41.1	41.9	41.2	42.4	41.9	42.2	42.9	42.2	44.3	42.5	43.9
5 to 14 weeks	30.9	29.7	30.4	31.5	31.8	30.2	31.1	31.1	31.1	30.0	28.0	29.1	29.7
15 weeks and over	27.5	28.0	28.5	26.6	27.0	27.4	27.0	26.7	26.0	27.9	27.8	28.3	26.4
15 to 26 weeks	12.9	13.2	13.4	11.7	12.7	12.9	12.5	12.7	12.0	13.8	13.2	13.8	13.1
27 weeks and over	14.6	14.8	15.2	14.9	14.3	14.5	14.5	14.1	14.0	14.1	14.5	14.6	13.3

A-41. Unemployed persons by reason for unemployment, seasonally adjusted

(Numbers in thousands)

Reasons for unemployment	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
NUMBER OF UNEMPLOYED													
Job losers	4,063	3,824	4,044	3,984	3,947	3,890	3,971	3,839	3,822	3,732	3,611	3,565	3,522
On layoff	1,078	1,017	1,029	1,072	1,073	1,078	1,118	998	1,011	958	906	901	918
Other job losers	2,985	2,807	3,015	2,912	2,874	2,812	2,854	2,842	2,811	2,774	2,705	2,664	2,604
Job leavers	1,025	990	1,041	1,027	1,056	1,036	891	1,046	1,000	923	906	949	1,007
Reentrants	2,205	2,199	2,145	2,190	2,119	2,019	2,054	2,042	2,111	1,940	2,018	1,969	1,913
New entrants	989	1,014	1,038	972	1,076	1,015	1,084	1,040	956	911	1,018	798	801
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	49.1	47.6	48.9	48.7	48.1	48.9	49.6	48.2	48.4	49.7	47.8	49.0	48.6
On layoff	13.0	12.7	12.4	13.1	13.1	13.5	14.0	12.5	12.8	12.8	12.0	12.4	12.7
Other job losers	36.0	35.0	36.5	35.6	35.1	35.3	35.7	35.6	35.6	37.0	35.8	36.6	36.0
Job leavers	12.4	12.3	12.6	12.6	12.9	13.0	11.1	13.1	12.7	12.3	12.0	13.0	13.9
Reentrants	26.6	27.4	25.9	26.8	25.8	25.4	25.7	25.6	26.8	25.8	26.7	27.0	26.4
New entrants	11.9	12.6	12.6	11.9	13.1	12.8	13.6	13.1	12.1	12.1	13.5	11.0	11.1
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.4	3.2	3.4	3.4	3.3	3.3	3.3	3.2	3.2	3.1	3.0	3.0	2.9
Job leavers .....	.9	.8	.9	.9	.9	.9	.7	.9	.8	.8	.8	.8	.8
Reentrants	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.6	1.7	1.6	1.6
New entrants .....	.8	.9	.9	.8	.9	.9	.9	.9	.8	.8	.8	.7	.7

ESTABLISHMENT DATA
HISTORICAL EMPLOYMENT

B-1. Employees on nonagricultural payrolls by major industry, 1935 to date

(In thousands)

Year and month	Total		Goods-producing				Service-producing						Government		
	Total	Total private	Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Government		
													Federal	State	Local
Annual averages															
1935	27,039	23,558	10,893	897	927	9,069	16,148	2,788	(¹)	(¹)	1,320	3,128	(¹)	(¹)	(¹)
1936	29,068	25,400	11,933	946	1,160	9,827	17,135	2,973	(¹)	(¹)	1,373	3,312	(¹)	(¹)	(¹)
1937	31,011	27,255	12,936	1,015	1,127	10,794	18,075	3,134	(¹)	(¹)	1,417	3,503	(¹)	(¹)	(¹)
1938	29,194	25,311	11,401	891	1,070	9,440	17,793	2,863	(¹)	(¹)	1,410	3,458	(¹)	(¹)	(¹)
1939	30,603	26,608	12,297	854	1,165	10,278	18,308	2,936	(¹)	(¹)	1,447	3,502	905	(¹)	(¹)
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,038	(¹)	(¹)	1,485	3,665	996	(¹)	(¹)
1941	36,539	31,877	15,963	957	1,814	13,192	20,574	3,274	1,960	5,251	1,525	3,905	1,340	(¹)	(¹)
1942	40,106	34,624	18,470	992	2,198	15,280	21,638	3,460	1,906	5,212	1,509	4,068	2,213	(¹)	(¹)
1943	42,434	36,356	20,114	925	1,587	17,602	22,320	3,647	1,822	5,180	1,481	4,130	2,905	(¹)	(¹)
1944	41,864	35,822	19,328	892	1,108	17,328	22,536	3,829	1,845	5,214	1,461	4,145	2,928	(¹)	(¹)
1945	40,374	34,431	17,507	836	1,147	15,524	22,867	3,906	1,949	5,365	1,481	4,222	2,808	(¹)	(¹)
1946	41,652	36,056	17,248	862	1,683	14,703	24,404	4,061	2,291	6,084	1,675	4,697	2,254	(¹)	(¹)
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,471	6,485	1,728	5,025	1,892	(¹)	(¹)
1948	44,866	39,218	18,774	994	2,198	15,582	26,092	4,189	2,605	6,667	1,800	5,181	1,863	(¹)	(¹)
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,602	6,662	1,828	5,240	1,908	(¹)	(¹)
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,635	6,751	1,888	5,357	1,928	(¹)	(¹)
1951	47,819	41,430	19,959	929	2,637	18,393	27,860	4,226	2,727	7,015	1,956	5,547	2,302	(¹)	(¹)
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,812	7,192	2,035	5,699	2,420	(¹)	(¹)
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,854	7,393	2,111	5,835	2,305	(¹)	(¹)
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,867	7,368	2,200	5,969	2,188	(¹)	(¹)
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,926	7,610	2,298	6,240	2,187	(¹)	(¹)
1956	52,369	45,091	21,104	822	3,039	17,243	31,266	4,244	3,018	7,840	2,389	6,497	2,209	(¹)	(¹)
1957	52,853	45,239	20,964	828	2,962	17,174	31,889	4,241	3,028	7,858	2,438	6,708	2,217	1,328	4,071
1958	51,324	43,483	19,513	751	2,817	15,945	31,811	3,976	2,980	7,770	2,481	6,765	2,191	1,415	4,232
1959 ²	53,268	45,186	20,411	732	3,004	16,675	32,857	4,011	3,082	8,045	2,549	7,087	2,233	1,484	4,366
1960	54,189	45,836	20,434	712	2,926	16,796	33,755	4,004	3,143	8,248	2,629	7,378	2,270	1,536	4,547
1961	53,999	45,404	19,857	672	2,859	18,326	34,142	3,903	3,133	8,204	2,688	7,620	2,279	1,607	4,708
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,198	8,368	2,754	7,982	2,340	1,668	4,881
1963	56,653	47,429	20,640	635	3,010	16,995	36,013	3,903	3,248	8,530	2,830	8,277	2,358	1,747	5,121
1964	58,283	48,686	21,005	634	3,097	17,274	37,278	3,951	3,337	8,823	2,911	8,660	2,348	1,856	5,392
1965	60,765	50,689	21,926	632	3,232	18,062	38,839	4,036	3,466	9,250	2,977	9,036	2,378	1,996	5,700
1966	63,901	53,116	23,308	627	3,317	19,214	40,743	4,158	3,597	9,848	3,058	9,498	2,564	2,141	6,080
1967	65,803	54,413	23,308	613	3,248	19,447	42,495	4,288	3,689	9,917	3,185	10,045	2,719	2,302	6,371
1968	67,897	56,058	23,737	606	3,350	19,781	44,160	4,318	3,779	10,320	3,337	10,567	2,737	2,442	6,660
1969	70,384	58,189	24,361	619	3,575	20,167	46,023	4,442	3,907	10,798	3,512	11,169	2,758	2,533	6,904
1970	70,880	58,325	23,578	623	3,588	19,367	47,302	4,515	3,993	11,047	3,645	11,548	2,731	2,664	7,158
1971	71,214	58,331	22,935	609	3,704	18,623	48,278	4,476	4,001	11,351	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,668	628	3,889	19,151	50,007	4,541	4,113	11,836	3,908	12,276	2,684	2,859	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,277	12,329	4,046	12,857	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,433	12,554	4,148	13,441	2,724	3,039	8,407
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,415	12,645	4,165	13,892	2,748	3,179	8,758
1976	79,382	64,511	23,352	779	3,576	18,997	56,030	4,582	4,546	13,209	4,271	14,551	2,733	3,273	8,865
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,708	13,808	4,467	15,303	2,727	3,377	9,023
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,969	14,573	4,724	16,252	2,753	3,474	9,446
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,204	14,989	4,975	17,112	2,773	3,541	9,633
1980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,275	15,035	5,160	17,890	2,866	3,610	9,765
1981	91,156	75,126	25,497	1,139	4,188	20,170	65,659	5,165	5,358	15,189	5,298	18,619	2,772	3,640	9,619
1982	89,566	73,729	23,813	1,128	3,905	18,781	65,753	5,082	5,278	15,179	5,341	19,036	2,739	3,640	9,458
1983	90,200	74,330	23,334	952	3,948	18,434	66,866	4,954	5,268	15,613	5,468	19,694	2,774	3,662	9,434
1984	94,496	78,472	24,727	966	4,383	19,378	69,769	5,159	5,555	16,545	5,689	20,797	2,807	3,734	9,482
1985	97,519	81,125	24,859	927	4,673	19,260	72,660	5,238	5,717	17,356	5,955	22,000	2,875	3,832	9,687
1986	99,610	82,900	24,681	783	4,904	18,994	74,930	5,244	5,735	17,845	6,297	23,099	2,899	3,888	9,923
Monthly data, seasonally adjusted															
1986:															
July	99,601	82,991	24,628	764	4,924	18,940	74,973	5,237	5,735	17,866	6,323	23,202	2,872	3,881	9,857
August	99,772	83,125	24,839	748	4,946	18,945	75,133	5,202	5,736	17,913	6,351	23,284	2,882	3,881	9,884
September	100,039	83,241	24,620	739	4,948	18,933	75,419	5,255	5,736	17,939	6,374	23,317	2,902	3,890	10,006
October	100,209	83,337	24,611	735	4,942	18,934	75,598	5,251	5,731	17,980	6,395	23,369	2,897	3,907	10,068
November	100,415	83,515	24,630	730	4,946	18,954	75,785	5,278	5,728	18,009	6,418	23,452	2,900	3,915	10,085
December	100,567	83,643	24,630	724	4,936	18,970	75,937	5,286	5,725	18,007	6,451	23,544	2,904	3,927	10,093
1987:															
January	100,919	83,983	24,708	718	5,034	18,956	76,211	5,304	5,741	18,080	6,480	23,670	2,912	3,929	10,095
February	101,150	84,215	24,743	719	5,038	18,988	76,407	5,315	5,757	18,140	6,501	23,759	2,916	3,927	10,092
March	101,329	84,352	24,749	722	5,032	18,995	76,580	5,333	5,766	18,136	6,526	23,842	2,922	3,930	10,125
April	101,598	84,560	24,759	729	5,019	19,011	76,839	5,348	5,772	18,197	6,558	23,926	2,933	3,943	10,162
May	101,708	84,677	24,752	735	4,999	19,018	76,956	5,344	5,775	18,205	6,576	24,025	2,935	3,947	10,149
June ^p	101,811	84,789	24,775	737	5,010	19,028	77,036	5,351	5,780	18,217	6,595	24,051	2,938	3,935	10,169
July ^p	102,115	85,008	24,849	742	5,009	19,098	77,266	5,344	5,790	18,278	6,614	24,133	2,937	3,951	10,219

¹ Not available.

² Data include Alaska and Hawaii beginning in 1959. This inclusion resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark month.

^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1986) and all seasonally adjusted data (beginning January 1983) are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-2. Employees on nonagricultural payrolls by detailed industry

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		June 1986	July 1986	May 1987	June 1987 ^P	July 1987 ^P	June 1986	July 1986	May 1987	June 1987 ^P	July 1987 ^P
Total		100,183	99,440	102,140	102,696	101,932					
Total private		83,467	83,629	84,778	85,591	85,655	67,573	67,688	68,611	69,304	69,312
Mining		772	770	731	740	747	536	536	520	528	532
Metal mining	10	41.6	41.6	43.1	43.6		30.9	30.9	32.6	33.0	
Iron ores	101	9.1	9.2	9.4	9.3		7.0	7.2	7.2	7.1	
Copper ores	102	10.9	10.8	12.3	12.6		8.3	8.3	9.9	10.0	
Coal mining	11,12	176.7	175.7	162.0	161.5		144.2	143.2	131.9	131.6	
Bituminous coal and lignite mining	12	174.1	173.1	159.7	159.4		142.1	141.1	129.9	129.8	
Oil and gas extraction	13	440.0	437.9	412.1	420.0	428.7	273.4	273.9	267.6	274.4	
Crude petroleum, natural gas, and natural gas liquids ...	131,2	225.9	225.4	202.8	204.3	-	106.5	107.6	99.6	99.7	
Oil and gas field services	138	214.1	212.5	209.3	215.7		166.9	166.3	168.0	174.7	
Nonmetallic minerals, except fuels	14	113.6	114.4	113.6	115.2		87.4	88.0	88.0	89.1	
Crushed and broken stone	142	40.7	41.3	41.4	41.6		33.0	33.5	33.4	33.4	
Sand and gravel	144	35.5	35.6	34.7	35.5		-	-	-	-	
Chemical and fertilizer minerals	147	17.8	18.1	18.0	18.1		-	-	-	-	
Construction		5,098	5,227	5,044	5,210	5,315	4,031	4,148	3,936	4,085	4,183
General building contractors	15	1,340.3	1,368.6	1,268.0	1,311.9	1,342.5	999.3	1,022.9	921.6	962.0	
Residential building construction	152	689.2	701.0	662.8	691.2	-	504.9	512.6	467.8	494.1	
Operative builders	153	60.0	60.3	54.9	56.5		32.6	32.1	28.2	29.0	
Nonresidential building construction	154	591.1	607.3	550.3	564.2		461.8	478.2	425.6	438.9	
Heavy construction contractors	16	832.8	841.9	814.3	835.6		700.3	710.4	686.6	707.7	
Highway and street construction	161	310.4	319.1	315.5	332.0		265.4	273.9	267.2	282.8	
Heavy construction, except highway	162	522.4	522.8	498.8	503.6		434.9	436.5	419.4	424.9	
Special trade contractors	17	2,924.7	3,016.3	2,961.2	3,062.1		2,331.2	2,414.2	2,328.2	2,414.8	
Plumbing, heating, and air conditioning	171	630.0	645.2	645.9	666.3		466.5	479.4	476.3	494.1	
Painting, paper hanging, and decorating	172	172.2	181.6	171.4	179.5		144.1	153.9	143.7	151.5	
Electrical work	173	523.1	535.5	525.9	542.2		405.6	417.7	403.9	417.6	
Masonry, stonework, and plastering	174	476.4	495.2	490.1	507.5		409.9	426.5	416.5	432.6	
Carpentering and flooring	175	180.6	189.1	174.3	178.4		140.2	148.3	134.3	136.9	
Roofing and sheet metal work	176	211.6	221.7	207.8	217.8		171.8	181.6	164.6	173.3	
Manufacturing		19,081	18,867	18,985	19,152	19,017	12,956	12,742	12,927	13,063	12,925
Durable goods		11,294	11,153	11,184	11,257	11,140	7,465	7,319	7,425	7,483	7,363
Lumber and wood products	24	725.3	722.5	737.5	754.1	762.5	611.2	608.2	617.0	631.5	640.9
Logging camps and logging contractors	241	84.3	85.6	78.7	83.3	-	71.2	72.4	65.6	69.3	-
Sawmills and planing mills	242	196.7	192.4	200.9	204.5		174.6	170.5	177.1	180.5	
Sawmills and planing mills, general	2421	161.3	157.5	163.1	166.4		143.5	139.9	143.8	146.9	
Hardwood dimension and flooring	2426	32.5	32.0	34.8	35.2		28.6	28.1	30.6	31.0	
Millwork, plywood, and structural members	243	251.7	253.7	263.7	269.4		209.4	211.3	218.3	223.5	
Millwork	2431	96.8	98.1	102.2	106.3		78.9	80.1	83.3	87.0	
Wood kitchen cabinets	2434	66.4	67.3	71.6	71.7		53.9	54.7	57.6	57.7	
Hardwood veneer and plywood	2435	23.6	23.0	24.6	24.6		20.7	20.1	21.5	21.6	
Softwood veneer and plywood	2436	37.7	37.8	38.7	39.2		34.6	34.8	35.2	35.6	
Wood containers	244	42.1	42.2	41.2	41.6		35.8	35.9	35.0	35.5	
Wood buildings and mobile homes	245	72.1	71.4	72.7	74.2		55.2	54.5	55.0	56.1	
Mobile homes	2451	49.5	48.3	49.1	50.1		39.8	38.7	39.6	40.3	
Miscellaneous wood products	249	78.4	77.2	80.3	81.1		65.0	63.6	66.0	66.6	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Durable goods—Continued											
Furniture and fixtures	25	496.0	484.5	506.4	509.1	505.2	396.3	384.5	404.4	406.2	402.9
Household furniture	251	292.7	282.0	302.9	302.7	-	245.7	235.3	255.9	255.5	-
Wood household furniture	2511	130.9	125.4	134.1	134.0	-	113.9	108.6	117.4	117.1	-
Upholstered household furniture	2512	92.4	91.1	97.4	97.9	-	76.5	75.3	81.1	81.6	-
Metal household furniture	2514	26.1	23.3	27.7	27.4	-	21.1	18.5	23.0	22.7	-
Mattresses and bedsprings	2515	29.7	28.8	30.3	30.9	-	22.8	21.9	23.0	23.6	-
Office furniture	252	66.3	66.3	66.7	67.4	-	51.0	50.9	49.9	50.3	-
Public building and related furniture	253	26.9	26.9	28.3	28.5	-	20.5	20.4	21.7	21.7	-
Partitions and fixtures	254	72.1	71.7	72.1	73.8	-	52.8	52.0	51.5	53.1	-
Miscellaneous furniture and fixtures	259	38.0	37.6	36.4	36.7	-	26.3	25.9	25.4	25.6	-
Stone, clay, and glass products	32	600.6	595.2	589.0	595.7	592.6	464.2	459.5	457.0	463.3	459.2
Flat glass	321	15.5	15.4	15.0	15.2	-	12.2	12.1	11.7	11.9	-
Glass and glassware, pressed or blown	322	91.3	88.4	88.7	89.1	-	77.9	75.2	75.9	76.5	-
Glass containers	3221	46.4	45.8	44.8	45.4	-	41.8	41.2	40.2	40.8	-
Pressed and blown glass, nec	3229	44.9	42.6	43.9	43.7	-	36.1	34.0	35.7	35.7	-
Products of purchased glass	323	50.6	50.6	50.8	51.3	-	35.5	35.5	35.8	36.3	-
Cement, hydraulic	324	23.1	23.2	21.7	22.3	-	18.1	18.2	16.8	17.4	-
Structural clay products	325	38.1	37.2	38.2	38.9	-	29.8	28.9	30.0	30.6	-
Pottery and related products	326	36.7	36.7	36.0	35.8	-	28.9	28.8	28.7	28.5	-
Concrete, gypsum, and plaster products	327	218.3	218.3	215.7	219.4	-	170.9	171.1	168.4	171.5	-
Concrete block and brick	3271	19.7	19.9	20.7	21.0	-	13.2	13.4	14.1	14.2	-
Concrete products, nec	3272	72.0	71.4	69.7	71.2	-	55.4	54.9	53.1	54.6	-
Ready-mixed concrete	3273	106.5	106.9	105.8	107.6	-	86.7	87.1	86.2	87.6	-
Misc. nonmetallic mineral products	329	114.4	113.2	109.7	110.4	-	81.1	80.2	79.3	80.2	-
Abrasive products	3291	20.9	20.6	20.2	20.6	-	13.9	13.8	13.8	13.9	-
Asbestos products	3292	9.2	8.8	9.2	9.5	-	7.0	6.6	7.1	7.4	-
Mineral wool	3296	27.9	27.9	24.4	24.5	-	-	-	-	-	-
Primary metal industries	33	754.2	738.6	748.0	753.8	740.4	568.6	552.0	562.2	567.1	553.6
Blast furnaces and basic steel products	331	283.1	279.4	274.8	277.8	276.1	218.0	214.7	207.2	209.5	206.7
Blast furnaces and steel mills	3312	215.6	213.3	208.6	211.0	-	168.2	166.2	158.1	160.2	-
Steel pipe and tubes	3317	23.4	23.1	23.0	23.2	-	16.9	16.5	16.8	16.8	-
Iron and steel foundries	332	132.7	126.5	130.3	131.2	-	104.3	98.5	102.9	103.6	-
Gray iron foundries	3321	83.1	78.7	81.3	81.8	-	67.8	63.5	66.2	66.6	-
Malleable iron foundries	3322	9.2	8.1	8.6	8.7	-	6.5	5.9	6.3	6.4	-
Steel foundries, nec	3325	27.4	26.7	26.4	26.7	-	20.2	19.3	19.7	19.9	-
Primary nonferrous metals	333	36.0	35.9	40.2	40.4	-	24.3	23.5	28.3	28.5	-
Primary aluminum	3334	17.8	17.9	22.4	22.4	-	11.9	11.1	15.8	15.9	-
Nonferrous rolling and drawing	335	173.8	173.5	175.8	176.5	-	121.6	119.9	125.1	125.8	-
Copper rolling and drawing	3351	23.1	22.6	22.7	23.0	-	17.9	17.5	17.7	17.9	-
Aluminum sheet, plate, and foil	3353	24.2	26.2	27.6	27.8	-	16.7	18.0	20.3	20.6	-
Nonferrous wire drawing and insulating	3357	75.3	73.6	74.1	74.3	-	52.4	50.0	51.7	51.9	-
Nonferrous foundries	336	86.2	82.3	85.7	86.2	-	69.0	65.3	68.6	69.2	-
Aluminum foundries	3361	52.9	51.2	52.8	53.0	-	43.0	41.4	42.9	43.2	-
Fabricated metal products	34	1,438.8	1,407.4	1,420.2	1,429.8	1,410.1	1,064.1	1,034.1	1,051.3	1,061.3	1,044.5
Metal cans and shipping containers	341	59.0	58.4	56.8	57.2	-	50.5	49.8	48.7	48.8	-
Metal cans	3411	47.6	47.2	45.7	46.0	-	41.7	41.2	39.8	39.9	-
Cutlery, hand tools, and hardware	342	137.0	132.6	132.7	133.0	-	100.9	96.8	97.7	98.1	-
Hand and edge tools, and hand saws and blades	3423,5	45.5	44.1	47.0	47.7	-	33.2	32.1	34.4	35.2	-
Hardware, nec	3429	79.2	76.5	74.8	74.4	-	59.3	56.7	56.0	55.6	-
Plumbing and heating, except electric	343	60.6	58.4	60.7	61.5	-	43.1	41.0	43.1	44.0	-
Plumbing fittings and brass goods	3432	24.1	23.8	24.6	24.6	-	17.6	17.2	17.8	17.9	-
Heating equipment, except electric	3433	25.9	25.0	25.5	26.3	-	17.5	16.8	17.2	17.9	-
Fabricated structural metal products	344	441.5	439.9	432.8	438.4	-	311.3	309.6	304.7	311.0	-
Fabricated structural metal	3441	79.6	79.1	76.3	77.7	-	56.6	56.2	54.0	55.3	-
Metal doors, sash, and trim	3442	94.7	95.3	94.7	97.5	-	71.2	71.7	70.2	72.9	-
Fabricated plate work (boiler shops)	3443	96.2	93.5	91.2	89.9	-	59.9	57.1	57.1	56.6	-
Sheet metal work	3444	108.5	108.8	109.0	110.9	-	80.4	81.0	80.8	82.9	-
Architectural metal work	3446	29.4	29.1	28.6	29.2	-	21.5	21.1	20.8	21.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Durable goods—Continued											
Fabricated metal products—Continued											
Screw machine products, bolts, etc	345	93.0	90.5	94.5	94.9		70.7	68.5	72.1	72.5	
Screw machine products	3451	44.3	42.7	45.0	45.3		35.9	34.5	36.7	36.9	
Bolts, nuts, rivets, and washers	3452	48.7	47.8	49.5	49.6		34.8	34.0	35.4	35.6	
Metal forgings and stampings	346	245.1	235.3	237.9	236.7		196.4	187.0	190.0	189.0	
Iron and steel forgings	3462	32.3	31.3	30.7	30.5		24.7	23.7	23.6	23.5	
Automotive stampings	3465	105.3	100.8	100.6	99.9		89.8	85.3	85.8	85.1	
Metal stampings, nec	3469	96.5	92.2	96.0	95.7		73.8	70.0	72.8	72.6	
Metal services, nec	347	109.0	104.7	114.4	115.1		87.4	83.1	91.4	91.9	
Plating and polishing	3471	71.7	68.2	74.0	74.2		57.9	54.4	59.6	59.6	
Metal coating and allied services	3479	37.3	36.5	40.4	40.9		29.5	28.7	31.8	32.3	
Ordnance and accessories, nec	348	76.7	76.5	80.4	81.4		48.1	47.7	51.2	51.7	
Ammunition, except for small arms, nec	3483	43.9	43.9	46.9	47.2		27.0	26.9	28.4	28.6	
Misc. fabricated metal products	349	216.9	211.1	210.0	211.6		155.7	150.6	152.4	154.3	
Valves and pipe fittings	3494	80.2	78.4	75.8	76.3		52.7	51.3	51.0	51.4	
Misc. fabricated wire products	3496	52.2	50.8	51.4	51.5		39.4	38.3	38.9	39.1	
Machinery, except electrical	35	2,074.7	2,047.7	2,026.9	2,038.3	2,028.4	1,235.6	1,211.5	1,205.3	1,214.7	1,206.1
Engines and turbines	351	102.0	100.5	98.6	98.0	-	63.7	62.1	62.2	61.7	-
Turbines and turbine generator sets	3511	33.3	33.2	30.0	29.8		17.9	17.7	16.0	16.0	
Internal combustion engines, nec	3519	68.7	67.3	68.6	68.2		45.8	44.4	46.2	45.7	
Farm and garden machinery	352	92.4	89.7	101.6	101.3		62.6	59.9	68.1	67.8	
Farm machinery and equipment	3523	69.4	68.0	73.5	74.9		45.0	43.8	46.3	47.7	
Construction and related machinery	353	227.1	224.2	215.8	218.1		138.6	135.6	127.0	129.7	
Construction machinery	3531	82.2	81.5	78.0	78.9		50.4	49.8	45.8	46.7	
Mining machinery	3532	19.7	19.4	19.7	19.6		12.3	12.1	11.8	11.8	
Oil field machinery	3533	46.3	44.8	41.1	41.6		27.6	26.1	23.7	24.6	
Conveyors and conveying equipment	3535	30.2	30.1	29.4	29.9		16.1	15.9	15.0	15.5	
Industrial trucks and tractors	3537	25.5	25.5	25.3	25.6		18.1	18.0	17.6	17.9	
Metalworking machinery	354	306.3	300.4	297.9	298.3		218.5	213.3	213.3	213.7	
Machine tools, metal cutting types	3541	50.3	49.6	45.3	45.3		31.7	31.1	28.3	28.4	
Machine tools, metal forming types	3542	19.7	19.2	19.0	19.1		12.1	11.7	11.9	12.0	
Special dies, tools, jigs, and fixtures	3544	142.5	140.0	142.4	142.8		110.4	108.1	109.2	109.3	
Machine tool accessories	3545	54.8	53.3	53.4	53.2		38.1	36.9	37.9	37.8	
Power driven hand tools	3546	21.3	20.8	21.2	21.4		15.4	14.9	15.7	15.9	
Special industry machinery	355	160.0	157.5	157.7	159.1		94.2	92.4	93.7	94.6	
Food products machinery	3551	37.5	37.0	37.4	37.7		22.7	22.2	22.5	22.8	
Textile machinery	3552	18.4	17.9	20.1	20.4		12.3	11.8	13.5	13.8	
Printing trades machinery	3555	27.6	27.4	26.7	26.4		16.1	15.9	15.6	15.4	
General industrial machinery	356	256.5	252.8	252.8	254.5		163.1	159.9	161.1	163.3	
Pumps and pumping equipment	3561	44.9	43.7	43.9	44.4		26.5	25.2	25.1	25.7	
Ball and roller bearings	3562	44.2	43.0	43.2	43.5		33.0	32.0	33.0	33.4	
Air and gas compressors	3563	22.4	22.4	21.9	21.9		12.8	12.6	12.2	12.6	
Blowers and fans	3564	30.6	30.3	30.5	30.6		19.3	19.2	19.6	19.8	
Speed changers, drives, and gears	3566	19.9	19.5	20.1	20.2		13.5	13.3	13.6	13.9	
Power transmission equipment, nec	3568	16.4	16.4	16.5	16.5		11.0	10.9	10.7	10.8	
Office and computing machines	357	479.3	477.3	453.7	457.2		162.3	161.5	147.6	149.2	
Electronic computing equipment	3573	422.3	420.5	398.7	401.3		138.5	137.9	124.1	125.7	
Refrigeration and service machinery	358	174.1	171.7	175.5	176.4		122.5	120.0	125.6	126.5	
Refrigeration and heating equipment	3585	124.2	122.9	125.9	126.8		89.4	88.1	92.2	93.1	
Misc. machinery, except electrical	359	277.0	273.6	273.3	275.4		210.1	206.8	206.7	208.2	
Carburetors, pistons, rings, and valves	3592	36.9	34.6	35.1	35.3		30.1	27.8	28.8	28.8	
Machinery, except electrical, nec	3599	240.1	239.0	238.2	240.1		180.0	179.0	177.9	179.4	
Electrical and electronic equipment	36	2,107.7	2,117.8	2,083.2	2,088.8	2,078.5	1,206.8	1,213.0	1,212.8	1,215.3	1,207.2
Electric distributing equipment	361	108.1	107.1	105.2	105.8	-	78.2	77.8	76.6	76.8	-
Transformers	3612	50.9	50.6	50.0	50.2		37.6	37.6	37.0	36.8	
Switchgear and switchboard apparatus	3613	57.2	56.5	55.2	55.6		40.6	40.2	39.6	40.0	
Electrical industrial apparatus	362	189.0	187.5	184.6	184.6		131.4	129.8	126.4	126.7	
Motors and generators	3621	91.4	90.7	90.1	90.0		70.7	69.9	68.6	68.6	
Industrial controls	3622	61.7	61.2	58.7	58.4		36.4	35.9	33.4	33.6	
Household appliances	363	134.4	133.2	137.3	136.1		104.9	102.7	108.9	107.6	
Household refrigerators and freezers	3632	28.7	29.1	28.8	28.6		22.8	23.1	23.7	23.4	
Household laundry equipment	3633	22.5	22.7	22.7	23.1		17.5	17.4	17.8	18.2	
Electric housewares and fans	3634	34.8	34.2	35.6	35.2		26.0	25.0	27.3	26.9	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Durable goods—Continued											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment	364	195.8	193.6	189.7	190.3		141.0	138.8	137.8	138.8	
Electric lamps	3641	27.4	27.3	27.0	27.0		23.4	23.3	23.2	23.2	
Current-carrying wiring devices	3643	78.5	76.8	73.7	73.9		51.3	49.5	48.6	49.3	
Noncurrent-carrying wiring devices	3644	17.4	17.1	16.3	16.4		12.3	12.0	11.8	11.9	
Residential lighting fixtures	3645	26.3	26.8	26.4	26.2		19.7	20.2	20.0	19.7	
Radio and TV receiving equipment	365	80.3	80.8	78.3	78.3		55.0	54.0	52.5	52.7	
Radio and TV receiving sets	3651	62.8	64.1	60.2	60.3		42.9	42.7	39.5	39.7	
Communication equipment	366	614.2	638.1	612.3	612.9		243.8	264.7	255.3	254.7	
Telephone and telegraph apparatus	3661	106.9	129.3	115.4	114.8		53.6	74.8	66.9	66.6	
Radio and TV communication equipment	3662	507.3	508.8	496.9	498.1		190.2	189.9	188.4	188.1	
Electronic components and accessories	367	633.3	627.7	625.7	631.0		347.8	342.8	350.8	353.5	
Electronic tubes	3671-3	40.0	39.2	38.4	38.3		23.9	23.5	24.4	24.2	
Semiconductors and related devices	3674	270.6	270.5	263.4	265.6		101.2	101.5	101.7	102.3	
Electronic components, nec	3679	251.4	248.8	253.3	255.9		169.4	166.8	171.7	173.6	
Misc. electrical equipment and supplies	369	152.6	149.8	150.1	149.8		104.7	102.4	104.5	104.5	
Storage batteries	3691	27.9	26.5	29.4	30.0		21.7	20.3	22.8	23.4	
Engine electrical equipment	3694	65.6	65.0	64.5	63.7		48.8	48.4	49.0	48.3	
Transportation equipment	37	2,021.1	1,985.7	2,014.6	2,020.5	1,966.7	1,267.2	1,224.0	1,272.5	1,273.4	1,210.3
Motor vehicles and equipment	371	874.7	838.0	846.0	851.8	794.9	673.6	635.8	661.2	666.6	607.1
Motor vehicles and car bodies	3711	402.6	376.9	372.2	376.2	-	299.8	273.4	282.9	286.7	-
Truck and bus bodies	3713	39.2	39.3	44.2	45.2		30.7	30.8	35.0	35.9	
Motor vehicle parts and accessories	3714	388.5	378.0	382.8	382.9		308.8	297.9	306.9	307.1	
Truck trailers	3715	29.6	29.2	29.9	30.8		23.0	22.5	23.1	23.9	
Aircraft and parts	372	672.1	675.7	686.8	687.7		327.4	326.6	343.5	342.2	
Aircraft	3721	337.5	340.5	349.8	351.8		145.1	146.2	157.1	156.6	
Aircraft engines and engine parts	3724	152.7	152.1	155.8	156.1		77.5	76.6	79.9	79.7	
Aircraft equipment, nec	3728	181.9	183.1	181.2	179.8		104.8	103.8	106.5	105.9	
Ship and boat building and repairing	373	185.2	181.9	187.4	185.1		139.0	135.4	139.2	137.1	
Ship building and repairing	3731	130.7	128.9	126.5	124.6		95.2	93.1	89.7	88.0	
Boat building and repairing	3732	54.5	53.0	60.9	60.5		43.8	42.3	49.5	49.1	
Railroad equipment	374	25.8	26.9	21.9	22.7		18.0	19.1	14.7	15.1	
Guided missiles, space vehicles, and parts	376	201.8	204.0	208.4	210.0		67.8	68.1	70.2	69.3	
Guided missiles and space vehicles	3761	152.9	154.5	157.5	158.4		49.5	49.8	50.9	50.1	
Miscellaneous transportation equipment	379	49.8	48.6	51.7	51.1		33.2	31.8	35.1	34.5	
Travel trailers and campers	3792	19.2	18.3	21.1	21.0		14.9	14.0	16.5	16.3	
Instruments and related products	38	710.1	703.1	691.9	696.1	695.0	385.4	378.5	375.7	379.3	376.2
Engineering and scientific instruments	381	84.3	83.7	82.5	83.0	-	37.2	36.3	37.2	37.7	-
Measuring and controlling devices	382	247.0	245.5	238.0	238.4		136.4	134.4	132.7	133.5	
Environmental controls	3822	42.0	40.6	41.0	40.9		26.5	25.0	25.9	26.2	
Process control instruments	3823	55.5	55.1	51.5	51.5		28.4	27.9	26.6	26.9	
Instruments to measure electricity	3825	105.7	105.7	100.7	101.1		53.1	52.7	50.3	50.1	
Optical instruments and lenses	383	33.1	32.8	32.2	32.4		16.4	16.2	15.7	15.8	
Medical instruments and supplies	384	181.1	179.1	179.1	179.9		109.4	107.3	107.1	107.8	
Surgical and medical instruments	3841	87.9	87.1	86.1	86.6		50.2	49.5	49.2	49.7	
Surgical appliances and supplies	3842	78.8	77.6	78.8	79.0		51.1	49.7	50.0	50.0	
Ophthalmic goods	385	38.6	37.8	41.7	42.1		25.9	25.4	28.4	28.9	
Photographic equipment and supplies	386	115.2	114.1	107.2	109.1		52.6	52.0	46.6	47.4	
Watches, clocks, and watchcases	387	10.8	10.1	11.2	11.2		7.5	6.9	8.0	8.2	
Miscellaneous manufacturing	39	365.8	350.4	366.6	370.4	360.7	265.5	254.0	266.8	271.0	261.9
Jewelry, silverware, and plated ware	391	54.0	49.5	53.5	53.7	-	37.2	33.8	37.0	37.2	-
Jewelry, precious metal	3911	37.8	34.7	37.1	37.1		25.8	23.5	25.4	25.4	
Musical instruments	393	12.5	11.8	12.5	12.6		10.1	9.4	10.2	10.4	
Toys and sporting goods	394	96.8	92.9	97.7	99.5		72.2	69.9	72.9	74.9	
Dolls, games, toys, and children's vehicles	3942,4	46.1	43.0	45.2	46.5		32.8	31.5	32.6	34.4	
Sporting and athletic goods, nec	3949	50.7	49.9	52.5	53.0		39.4	38.4	40.3	40.5	
Pens, pencils, office, and art supplies	395	33.2	32.8	33.3	33.3		22.7	22.3	23.0	23.2	
Costume jewelry and notions	396	40.2	36.9	43.1	43.5		30.8	28.4	33.8	34.2	
Costume jewelry	3961	22.2	20.0	25.4	25.1		16.9	15.4	19.9	19.7	
Miscellaneous manufactures	399	129.1	126.5	126.5	127.8		92.5	90.2	89.9	91.1	
Signs and advertising displays	3993	55.6	55.3	54.7	54.8		38.7	38.6	37.9	37.9	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Nondurable goods		7,787	7,714	7,801	7,895	7,877	5,491	5,423	5,502	5,580	5,562
Food and kindred products	20	1,624.5	1,655.4	1,593.6	1,638.0	1,683.1	1,139.3	1,169.7	1,113.7	1,151.4	1,197.1
Meat products	201	372.8	376.1	375.3	382.5	-	317.0	320.0	318.2	324.6	-
Meat packing plants	2011	138.2	138.8	134.7	136.6	-	116.0	116.4	112.4	114.3	-
Sausages and other prepared meats	2013	77.2	77.3	75.0	76.4	-	57.2	57.2	55.3	56.3	-
Poultry dressing plants	2016	139.5	141.9	146.9	150.5	-	127.4	129.7	133.3	136.5	-
Dairy products	202	167.0	167.6	166.2	169.6	-	101.0	101.6	100.8	103.7	-
Cheese, natural and processed	2022	40.5	40.5	39.4	40.5	-	31.1	30.9	30.1	31.1	-
Fluid milk	2026	85.6	85.3	86.2	86.8	-	42.3	42.3	43.4	44.1	-
Preserved fruits and vegetables	203	237.7	259.4	219.3	240.8	-	195.0	215.9	176.0	196.5	-
Canned specialties	2032	23.8	24.6	24.2	23.7	-	17.0	17.8	16.8	16.3	-
Canned fruits and vegetables	2033	80.0	100.7	68.7	79.5	-	64.9	85.2	54.5	64.8	-
Frozen fruits and vegetables	2037	51.1	52.1	44.0	49.7	-	44.8	45.9	38.3	43.8	-
Grain mill products	204	122.3	121.2	119.3	120.5	-	83.3	83.0	81.4	82.5	-
Flour and other grain mill products	2041	22.0	21.8	22.1	22.5	-	14.9	15.1	14.5	15.0	-
Prepared feeds, nec	2048	43.6	43.0	42.1	42.5	-	27.2	26.9	26.7	26.9	-
Bakery products	205	210.9	212.2	211.0	211.6	-	126.9	128.6	127.6	127.9	-
Bread, cake, and related products	2051	167.5	167.8	166.3	167.4	-	92.4	92.6	91.3	92.4	-
Cookies and crackers	2052	43.4	44.4	44.7	44.2	-	34.5	36.0	36.3	35.5	-
Sugar and confectionery products	206	91.4	88.5	87.7	89.7	-	70.6	68.2	67.2	69.2	-
Cane and beet sugar	2061-3	19.9	18.5	21.0	20.8	-	15.4	14.3	15.9	15.8	-
Confectionery products	2065	52.2	50.4	48.1	49.0	-	42.3	40.7	39.0	39.9	-
Fats and oils	207	33.8	33.5	32.7	32.1	-	24.6	24.2	23.3	22.7	-
Beverages	208	217.2	218.3	211.6	216.7	-	93.1	94.1	92.0	93.7	-
Malt beverages	2082	42.1	42.6	40.6	40.7	-	27.2	27.6	25.9	25.8	-
Bottled and canned soft drinks	2086	130.3	130.7	126.0	129.4	-	42.6	43.2	41.8	43.1	-
Misc. food and kindred products	209	171.4	178.6	170.5	174.5	-	127.8	134.1	127.2	130.6	-
Tobacco manufactures	21	55.9	55.4	53.4	53.7	53.9	41.1	40.8	39.8	39.2	39.3
Cigarettes	211	42.7	42.7	40.3	41.0	-	31.7	31.9	30.1	30.2	-
Textile mill products	22	707.3	693.0	726.8	733.3	723.2	612.0	597.5	631.4	637.5	628.9
Weaving mills, cotton	221	101.1	98.7	106.5	107.3	-	90.7	88.3	96.1	96.9	-
Weaving mills, synthetics	222	83.4	82.3	86.7	87.4	-	74.3	73.4	77.5	77.9	-
Weaving and finishing mills, wool	223	18.0	17.3	18.2	18.4	-	15.1	14.4	15.0	15.1	-
Narrow fabric mills	224	22.1	19.7	22.9	23.0	-	19.0	16.8	19.9	20.0	-
Knitting mills	225	209.9	207.6	210.7	212.6	-	182.7	180.3	185.1	187.0	-
Women's hosiery, except socks	2251	35.6	34.9	35.1	34.9	-	31.6	30.9	31.4	31.2	-
Hosiery, nec	2252	36.9	36.6	36.5	36.8	-	33.1	32.8	32.8	33.1	-
Knit outerwear mills	2253	70.9	70.7	72.5	73.7	-	62.0	62.0	64.6	65.6	-
Knit underwear mills	2254	24.4	24.1	23.3	23.3	-	20.1	19.8	19.7	19.8	-
Circular knit fabric mills	2257	24.1	23.7	25.5	25.8	-	21.0	20.4	22.2	22.6	-
Textile finishing, except wool	226	59.6	56.9	60.5	61.0	-	50.3	47.4	50.9	51.2	-
Finishing plants, cotton	2261	23.0	21.7	23.6	23.9	-	19.7	18.2	20.0	20.3	-
Finishing plants, synthetics	2262	22.3	21.3	22.5	22.7	-	18.3	17.3	18.4	18.4	-
Floor covering mills	227	54.7	54.8	58.5	59.1	-	45.0	45.0	47.4	48.0	-
Yarn and thread mills	228	103.6	102.7	108.0	109.2	-	92.2	91.0	96.4	97.8	-
Yarn mills, except wool	2281	74.7	74.8	78.8	80.0	-	67.4	67.5	71.3	72.5	-
Throwing and winding mills	2282	16.1	16.0	16.0	16.0	-	14.0	13.9	14.2	14.3	-
Miscellaneous textile goods	229	54.9	53.0	54.8	55.3	-	42.7	40.9	43.1	43.6	-
Apparel and other textile products	23	1,113.8	1,065.9	1,110.6	1,120.1	1,088.3	937.8	893.5	931.4	941.2	911.0
Men's and boys' suits and coats	231	59.9	58.1	57.4	58.0	-	51.5	50.1	49.1	49.5	-
Men's and boys' furnishings	232	312.4	301.1	312.7	316.5	-	270.5	260.5	270.5	273.5	-
Men's and boys' shirts and nightwear	2321	87.1	85.1	86.6	87.4	-	75.3	73.7	74.4	74.9	-
Men's and boys' separate trousers	2327	56.9	54.2	53.8	54.1	-	50.0	47.6	47.0	47.2	-
Men's and boys' work clothing	2328	94.0	90.1	95.6	97.1	-	82.3	78.5	83.6	84.9	-
Women's and misses' outerwear	233	358.3	335.3	359.9	362.0	-	298.4	276.8	298.7	301.6	-
Women's and misses' blouses and waists	2331	49.8	48.6	49.8	49.8	-	41.1	40.3	41.3	41.2	-
Women's and misses' dresses	2335	86.9	78.1	86.1	86.7	-	73.5	65.3	71.9	72.7	-
Women's and misses' suits and coats	2337	45.4	43.2	45.5	47.7	-	37.5	35.1	36.8	38.6	-
Women's and misses' outerwear, nec	2339	176.2	165.4	178.5	177.8	-	146.3	136.1	148.7	149.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		June 1986	July 1986	May 1987	June 1987 ^P	July 1987 ^P	June 1986	July 1986	May 1987	June 1987 ^P	July 1987 ^P
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	77.0	74.9	73.3	73.9		63.9	62.0	60.4	60.8	
Women's and children's underwear	2341	62.5	60.8	59.4	60.1		53.2	51.4	50.5	51.1	
Brassieres and allied garments	2342	14.5	14.1	13.9	13.8		10.7	10.6	9.9	9.7	
Children's outerwear	236	62.3	60.1	56.2	58.3		52.8	50.7	46.8	48.6	
Children's dresses and blouses	2361	25.9	24.4	23.4	24.0		22.7	21.5	20.3	20.9	
Misc. apparel and accessories	238	41.6	40.8	42.4	41.8		34.7	34.0	35.7	35.2	
Misc. fabricated textile products	239	182.8	176.4	189.9	190.4		150.6	144.3	155.4	156.7	
Curtains and draperies	2391	25.5	24.8	26.9	26.7		20.4	20.0	21.6	21.8	
House furnishings, nec	2392	48.9	48.3	52.0	51.8		41.7	41.1	43.9	43.8	
Automotive and apparel trimmings	2396	38.9	36.5	39.0	39.5		32.8	30.3	32.7	33.3	
Paper and allied products	26	680.9	674.3	675.0	683.5	678.0	517.4	510.6	511.8	519.2	515.7
Paper and pulp mills	261,2,6	198.5	195.1	192.0	195.4	-	152.4	149.1	146.1	148.4	-
Paper mills, except building paper	262	173.9	170.5	168.0	171.4		132.6	129.6	127.0	129.5	
Paperboard mills	263	54.0	53.8	52.8	53.7		41.1	40.9	39.6	40.2	
Misc. converted paper products	264	231.3	230.7	232.9	234.7		170.9	169.9	173.0	175.1	
Paper coating and glazing	2641	58.1	58.1	58.1	59.5		36.4	36.3	36.8	38.3	
Envelopes	2642	26.6	26.0	26.8	26.9		20.6	20.1	20.7	20.8	
Bags, except textile bags	2643	50.6	50.5	52.2	52.3		39.6	39.5	41.2	41.3	
Paperboard containers and boxes	265	197.1	194.7	197.3	199.7		153.0	150.7	153.1	155.5	
Folding paperboard boxes	2651	42.7	41.7	42.7	43.1		34.0	33.0	33.8	34.2	
Corrugated and solid fiber boxes	2653	104.6	103.3	103.4	104.7		79.0	77.8	78.2	79.4	
Sanitary food containers	2654	22.9	23.0	23.9	24.2		19.4	19.5	20.5	20.9	
Printing and publishing	27	1,456.2	1,454.2	1,495.7	1,499.6	1,499.0	819.1	815.7	837.8	839.7	836.2
Newspapers	271	458.4	457.6	459.2	461.2	-	170.2	169.7	169.6	169.9	-
Periodicals	272	114.9	115.2	120.2	121.3		42.2	42.1	43.6	44.5	
Books	273	109.7	109.6	115.2	114.3		60.4	60.5	62.2	61.6	
Book publishing	2731	81.3	81.5	85.1	84.7		37.8	38.1	38.5	38.5	
Book printing	2732	28.4	28.1	30.1	29.6		22.6	22.4	23.7	23.1	
Miscellaneous publishing	274	71.1	71.9	77.0	78.0		38.4	38.2	41.3	41.7	
Commercial printing	275	506.2	504.4	527.7	527.9		368.0	366.2	380.7	380.8	
Commercial printing, letterpress	2751	160.9	160.5	167.2	168.4		117.6	117.3	120.4	120.9	
Commercial printing, lithographic	2752	319.3	318.9	332.3	331.8		229.8	229.1	238.0	237.8	
Manifold business forms	276	49.8	49.3	48.4	48.1		34.8	34.4	33.7	33.5	
Blankbooks and bookbinding	278	72.9	72.6	73.9	74.5		58.8	58.3	59.3	59.7	
Printing trade services	279	50.8	51.2	52.9	53.0		38.1	38.3	39.4	39.6	
Chemicals and allied products	28	1,030.3	1,027.9	1,019.5	1,033.1	1,031.6	574.3	571.3	571.4	580.8	577.1
Industrial inorganic chemicals	281	137.2	136.2	132.9	134.0	-	70.3	69.3	68.6	68.5	-
Industrial inorganic chemicals, nec	2819	91.2	90.3	87.8	88.6		49.8	49.2	49.2	49.2	
Plastics materials and synthetics	282	168.1	167.8	164.7	167.5		113.7	113.0	108.9	110.9	
Plastics materials and resins	2821	75.5	75.7	74.8	76.9		45.8	45.7	44.3	45.6	
Organic fibers, noncellulosic	2824	63.1	62.6	60.9	61.4		45.8	45.3	43.0	43.5	
Drugs	283	208.4	208.3	209.4	212.8		96.5	96.0	96.2	97.9	
Pharmaceutical preparations	2834	165.8	165.7	167.7	169.5		75.6	75.1	75.9	76.5	
Soap, cleaners, and toilet goods	284	147.8	147.9	149.6	153.4		94.0	94.1	94.5	98.0	
Soap and other detergents	2841	42.6	42.9	41.7	41.9		27.1	27.5	26.3	26.4	
Polishing, sanitation, and finishing preparations	2842,3	39.7	39.7	39.9	40.5		21.5	21.2	21.8	22.2	
Toilet preparations	2844	65.5	65.3	68.0	71.0		45.4	45.4	46.4	49.4	
Paints and allied products	285	64.1	64.3	63.2	63.9		31.3	31.3	31.0	31.7	
Industrial organic chemicals	286	155.0	155.4	151.6	152.6		81.6	82.0	84.6	85.8	
Cyclic crudes and intermediates	2865	30.5	30.4	29.3	29.5		20.1	20.0	19.4	19.5	
Gum, wood, and industrial organic chemicals, nec	2861,9	124.5	125.0	122.3	123.1		61.5	62.0	65.2	66.3	
Agricultural chemicals	287	55.8	54.3	55.3	54.4		34.2	33.0	35.2	34.3	
Miscellaneous chemical products	289	93.9	93.7	92.8	94.5		52.7	52.6	52.4	53.7	
Petroleum and coal products	29	172.5	172.1	165.3	167.3	167.8	108.5	108.6	108.4	110.2	111.1
Petroleum refining	291	132.7	132.1	125.0	126.1	-	79.9	79.8	79.5	80.6	
Paving and roofing materials	295	28.1	28.4	29.0	29.6		21.7	22.0	22.4	22.9	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Nondurable goods—Continued											
Rubber and misc. plastics products	30	793.4	774.7	810.9	815.8	806.4	617.0	599.4	630.4	633.6	623.6
Tires and inner tubes	301	87.4	87.0	85.8	85.7	-	63.6	63.2	62.0	61.4	-
Rubber and plastics footwear	302	10.6	9.8	10.2	10.1	-	8.9	8.2	8.3	8.2	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	21.9	21.6	21.0	21.0	-	15.0	14.7	15.1	15.0	-
Fabricated rubber products, nec	306	103.0	99.0	103.2	103.7	-	79.1	75.1	79.3	79.5	-
Miscellaneous plastics products	307	570.5	557.3	590.7	595.3	-	450.4	438.2	465.7	469.5	-
Leather and leather products	31	151.7	141.4	150.1	151.0	145.4	124.8	115.4	125.8	127.0	122.0
Leather tanning and finishing	311	14.5	13.5	14.0	13.9	-	12.1	11.2	11.6	11.4	-
Footwear, except rubber	314	90.0	83.9	87.6	89.8	-	75.6	70.2	75.5	77.6	-
Men's footwear, except athletic	3143	39.9	37.2	38.2	39.2	-	31.7	29.4	30.9	31.9	-
Women's footwear, except athletic	3144	31.5	28.9	32.0	33.0	-	27.6	25.3	28.2	29.2	-
Luggage	316	10.8	10.3	11.1	11.1	-	7.8	7.2	8.0	8.0	-
Handbags and personal leather goods	317	18.9	17.6	18.7	17.5	-	15.1	14.0	15.4	14.7	-
Transportation and public utilities		5,184	5,243	5,349	5,392	5,351	4,273	4,320	4,433	4,474	4,432
Transportation		3,052	3,016	3,129	3,157	3,113	-	-	-	-	-
Railroad transportation	40	332.2	337.0	312.4	311.5	-	269.0	213.4	272.7	260.7	-
Class I railroads ²	4011	295.6	300.2	276.6	275.9	-	-	-	-	-	-
Local and interurban passenger transit	41	290.4	233.3	294.2	281.7	-	269.0	213.4	272.7	260.7	-
Local and suburban transportation	411	97.9	98.1	100.4	101.3	-	90.2	90.6	91.6	92.2	-
Taxicabs	412	35.6	35.2	34.6	34.1	-	-	-	-	-	-
Intercity highway transportation	413	35.6	34.9	31.9	31.9	-	32.3	31.7	28.9	29.2	-
School buses	415	98.4	43.0	102.1	89.1	-	-	-	-	-	-
Trucking and warehousing	42	1,377.6	1,386.9	1,432.7	1,459.4	-	1,199.0	1,206.3	1,244.6	1,270.4	-
Trucking and trucking terminals	421,3	1,282.7	1,289.8	1,332.1	1,357.7	-	1,119.2	1,124.7	1,160.6	1,185.4	-
Public warehousing	422	94.9	97.1	100.6	101.7	-	79.8	81.6	84.0	85.0	-
Water transportation	44	180.2	178.2	175.1	180.3	-	-	-	-	-	-
Local water transportation	445	27.2	28.5	26.9	28.3	-	-	-	-	-	-
Water transportation services	446	98.3	95.7	97.1	99.2	-	-	-	-	-	-
Transportation by air	45	568.4	578.1	597.0	602.9	-	-	-	-	-	-
Air transportation	451,2	502.1	510.9	528.7	533.7	-	-	-	-	-	-
Air transportation services	458	66.3	67.2	68.3	69.2	-	-	-	-	-	-
Pipe lines, except natural gas	46	18.4	18.7	17.6	18.2	-	13.5	13.8	12.8	13.2	-
Transportation services	47	284.3	284.1	299.9	302.5	-	-	-	-	-	-
Freight forwarding	471	62.8	63.9	70.2	71.1	-	-	-	-	-	-
Communication and public utilities		2,132	2,227	2,220	2,235	2,238	-	-	-	-	-
Communication	48	1,202.5	1,289.5	1,291.4	1,295.8	-	903.3	980.5	981.4	986.0	-
Telephone communication	481	803.9	891.8	889.5	892.1	-	582.4	660.5	657.7	660.4	-
Radio and television broadcasting	483	238.6	237.8	237.1	237.0	-	195.8	195.1	194.9	194.9	-
Radio broadcasting	4832	113.4	113.2	113.4	114.1	-	-	-	-	-	-
Television broadcasting	4833	125.2	124.6	123.7	122.9	-	-	-	-	-	-
Electric, gas, and sanitary services	49	929.2	937.1	928.7	939.6	-	740.0	746.4	736.1	745.8	-
Electric services	491	453.5	456.2	453.4	457.3	-	350.3	352.1	346.2	349.7	-
Gas production and distribution	492	167.6	170.3	166.0	169.2	-	131.3	133.7	131.7	134.6	-
Combination utility services	493	208.5	209.4	203.6	205.8	-	173.1	173.7	168.1	169.9	-
Sanitary services	495	72.3	73.6	77.6	78.5	-	62.9	64.3	67.5	68.3	-
Wholesale trade		5,740	5,764	5,768	5,809	5,819	4,603	4,629	4,614	4,653	4,664
Durable goods	50	3,374	3,400	3,401	3,422	3,429	2,680	2,706	2,691	2,711	-
Motor vehicles and automotive equipment	501	433.8	432.9	434.3	436.9	-	348.2	347.9	347.9	350.6	-
Automobiles and other motor vehicles	5012	110.5	110.3	111.3	111.6	-	-	-	-	-	-
Automotive parts and supplies	5013	291.5	291.2	291.8	293.3	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		June 1986	July 1986	May 1987	June 1987 ^P	July 1987 ^P	June 1986	July 1986	May 1987	June 1987 ^P	July 1987 ^P
Wholesale trade—Continued											
Durable goods—Continued											
Furniture and home furnishings	502	131.3	131.0	136.8	137.3		105.8	105.3	110.0	110.3	
Furniture	5021	57.9	57.3	59.8	60.2		-	-	-	-	
Home furnishings	5023	73.4	73.7	77.0	77.1		-	-	-	-	
Lumber and construction materials	503	228.6	230.9	229.5	232.0		188.5	190.2	189.1	192.0	
Lumber, plywood, and millwork	5031	102.2	102.8	103.5	105.4		-	-	-	-	
Construction materials, nec	5039	126.4	128.1	126.0	126.6		-	-	-	-	
Sporting goods, toys, and hobby goods	504	81.8	80.3	79.6	81.2		67.4	65.7	65.9	67.8	
Metals and minerals, except petroleum	505	133.7	132.3	132.4	133.7		105.3	104.5	103.1	104.2	
Electrical goods	506	459.8	489.1	489.6	489.7		343.1	372.6	372.1	372.9	
Electrical apparatus and equipment	5063	240.8	270.6	269.4	270.1		-	-	-	-	
Electrical appliances, TV and radios	5064	69.9	69.8	73.2	72.4		-	-	-	-	
Electronic parts and equipment	5065	149.1	148.7	147.0	147.2		-	-	-	-	
Hardware, plumbing, and heating equipment	507	258.5	259.8	262.0	264.3		206.9	208.3	211.2	213.3	
Hardware	5072	87.6	88.6	91.3	92.0		-	-	-	-	
Plumbing and hydronic heating supplies	5074	107.4	107.7	107.8	108.6		-	-	-	-	
Machinery, equipment, and supplies	508	1,454.7	1,453.9	1,445.0	1,452.8		1,160.9	1,160.1	1,138.8	1,144.8	
Commercial machines and equipment	5081	531.5	531.7	532.4	534.3		-	-	-	-	
Construction and mining machinery	5082	81.7	81.6	81.0	81.6		-	-	-	-	
Farm machinery and equipment	5083	120.7	120.7	120.5	122.0		-	-	-	-	
Industrial machinery and equipment	5084	306.2	305.3	294.8	296.9		-	-	-	-	
Industrial supplies	5085	130.0	130.3	129.2	129.6		-	-	-	-	
Professional equipment and supplies	5086	175.7	174.7	174.3	174.8		-	-	-	-	
Miscellaneous durable goods	509	191.5	189.3	191.8	194.2		153.5	151.7	152.8	154.9	
Scrap and waste materials	5093	89.0	86.9	87.8	89.0		-	-	-	-	
Nondurable goods	51	2,366	2,364	2,367	2,387	2,390	1,923	1,923	1,923	1,942	
Paper and paper products	511	190.5	190.6	192.1	192.0	-	154.7	155.0	156.6	156.6	
Drugs, proprietaries, and sundries	512	168.4	167.3	172.7	173.8		140.1	139.2	143.5	144.3	
Apparel, piece goods, and notions	513	190.9	191.4	190.8	193.0		142.2	143.9	142.6	144.5	
Groceries and related products	514	765.3	765.4	758.6	772.2		650.7	650.5	641.2	653.4	
Groceries, general line	5141	242.9	244.2	247.5	250.0		-	-	-	-	
Meats and meat products	5147	64.6	65.0	63.9	64.2		-	-	-	-	
Fresh fruits and vegetables	5148	100.4	96.6	88.4	92.1		-	-	-	-	
Chemicals and allied products	516	130.3	130.3	132.8	134.0		94.3	94.7	96.7	98.5	
Petroleum and petroleum products	517	200.9	202.1	194.2	195.6		155.7	156.5	151.7	152.8	
Petroleum bulk stations and terminals	5171	83.2	83.9	78.5	79.5		-	-	-	-	
Petroleum products, nec	5172	117.7	118.2	115.7	116.1		-	-	-	-	
Beer, wine, and distilled beverages	518	153.0	153.8	153.7	155.7		126.5	127.6	126.7	128.6	
Beer and ale	5181	96.3	97.1	97.0	99.0		-	-	-	-	
Wines and distilled beverages	5182	56.7	56.7	56.7	56.7		-	-	-	-	
Miscellaneous nondurable goods	519	439.2	438.5	445.1	444.2		355.9	354.9	360.9	360.6	
Farm supplies	5191	151.0	150.1	151.3	150.3		-	-	-	-	
Retail trade		17,965	17,947	18,205	18,363	18,351	16,006	15,984	16,193	16,330	16,305
Building materials and garden supplies	52	725.4	721.7	741.7	749.4		612.3	607.9	617.8	626.0	
Lumber and other building materials	521	386.6	389.4	394.5	404.7		329.4	332.2	334.0	344.8	
Hardware stores	525	160.4	160.2	162.1	163.1		135.6	134.6	135.2	135.9	
General merchandise stores	53	2,308.8	2,313.2	2,318.0	2,333.7	2,350.8	2,172.5	2,171.3	2,177.3	2,188.5	
Department stores	531	1,931.0	1,935.1	1,933.5	1,945.4	-	1,836.5	1,834.9	1,833.9	1,841.5	
Variety stores	533	237.4	236.9	242.0	243.4		214.9	214.5	220.2	221.7	
Misc. general merchandise stores	539	140.4	141.2	142.5	144.9		121.1	121.9	123.2	125.3	
Food stores	54	2,878.4	2,887.4	2,941.6	2,962.5	2,973.7	2,661.1	2,668.1	2,709.0	2,726.9	
Grocery stores	541	2,530.7	2,544.0	2,582.9	2,602.0	-	2,352.5	2,364.2	2,389.1	2,406.8	
Meat markets and freezer provisioners	542	59.6	59.5	60.2	61.5		-	-	-	-	
Dairy products stores	545	33.0	32.9	35.3	35.7		-	-	-	-	
Retail bakeries	546	161.0	159.1	163.0	164.3		145.6	143.7	148.1	149.4	
Automotive dealers and service stations	55	1,958.0	1,966.5	1,983.8	2,003.0	2,006.2	1,641.5	1,651.1	1,664.8	1,682.6	
New and used car dealers	551,2	946.1	949.4	962.3	968.0	-	787.3	790.3	799.8	804.9	
Auto and home supply stores	553	312.0	313.8	312.3	316.7		251.3	253.8	252.3	256.5	
Gasoline service stations	554	601.3	604.9	608.9	614.8		522.3	526.7	531.7	536.7	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		June 1986	July 1986	May 1987	June 1987 ^P	July 1987 ^P	June 1986	July 1986	May 1987	June 1987 ^P	July 1987 ^P
Retail trade—Continued											
Apparel and accessory stores	56	1,064.2	1,045.2	1,080.2	1,089.8		898.3	881.4	911.4	920.4	
Men's and boys' clothing and furnishings	561	106.6	105.6	105.5	105.0		88.4	87.2	86.0	85.8	
Women's ready-to-wear stores	562	385.0	380.3	390.1	391.4		328.5	324.5	331.1	331.7	
Family clothing stores	565	235.4	230.2	239.8	245.0		203.4	198.7	206.8	212.2	
Shoe stores	566	203.3	200.1	207.5	209.0		163.0	160.3	169.5	171.0	
Furniture and home furnishings stores	57	759.7	762.4	789.1	793.3		629.8	633.5	654.7	657.0	
Furniture and home furnishings stores	571	427.5	428.1	446.6	451.1		351.9	352.0	367.7	371.8	
Furniture stores	5712	267.6	267.2	280.8	282.1		-	-	-	-	
Household appliance stores	572	86.9	86.2	83.7	84.1		74.3	73.7	71.6	71.7	
Radio, television, and music stores	573	245.3	248.1	258.8	258.1		203.6	207.8	215.4	213.5	
Radio and television stores	5732	179.4	182.7	192.1	192.2		-	-	-	-	
Music stores	5733	65.9	65.4	66.7	65.9		-	-	-	-	
Eating and drinking places	58	6,064.5	6,051.5	6,089.5	6,178.8	6,153.5	5,523.0	5,511.9	5,555.0	5,637.7	
Miscellaneous retail	59	2,206.1	2,199.2	2,261.0	2,252.3		1,867.8	1,858.6	1,902.6	1,890.8	
Drug stores and proprietary stores	591	561.3	558.8	582.7	587.9		479.6	476.8	494.5	498.9	
Liquor stores	592	125.5	124.1	123.9	124.8		-	-	-	-	
Miscellaneous shopping goods stores	594	722.0	722.2	730.3	729.8		604.1	604.5	610.8	607.8	
Sporting goods and bicycle shops	5941	124.1	124.1	124.9	125.6		-	-	-	-	
Book stores	5942	71.7	71.8	76.9	73.5		-	-	-	-	
Stationery stores	5943	73.8	73.6	75.8	74.7		-	-	-	-	
Jewelry stores	5944	142.6	142.7	140.7	141.7		-	-	-	-	
Gift, novelty, and souvenir shops	5947	142.2	141.8	138.9	141.7		-	-	-	-	
Sewing, needlework, and piece goods	5949	62.6	61.3	63.8	62.6		-	-	-	-	
Nonstore retailers	596	254.6	252.4	254.1	253.7		229.6	227.2	228.9	228.5	
Mail order houses	5961	116.7	116.8	117.8	117.5		-	-	-	-	
Merchandising machine operators	5962	78.4	77.9	82.5	82.0		-	-	-	-	
Fuel and ice dealers	598	105.4	104.3	111.6	111.6		88.0	86.8	92.1	92.0	
Retail stores, nec	599	357.7	358.2	374.6	360.4		294.8	294.4	308.2	295.0	
Finance, insurance, and real estate³		6,347	6,409	6,575	6,658	6,705	4,703	4,761	4,844	4,903	4,942
Finance		3,169	3,198	3,269	3,310	3,327					
Banking	60	1,751.0	1,758.8	1,734.9	1,753.3		1,277.2	1,284.1	1,249.5	1,260.2	
Commercial and stock savings banks	602	1,579.0	1,585.5	1,557.9	1,571.1		1,147.4	1,153.6	1,117.4	1,130.1	
State banks, Federal Reserve	6022	340.8	343.1	343.8	346.5		-	-	-	-	
State banks, not Federal Reserve	6023,4	377.6	379.2	374.7	379.6		-	-	-	-	
Mutual savings banks	603	83.3	83.8	86.5	95.9		-	-	-	-	
Credit agencies other than banks	61	834.5	842.6	894.5	903.7		630.9	637.4	670.4	677.9	
Savings and loan associations	612	378.0	380.7	400.2	404.7		288.7	291.3	305.5	309.2	
Federal savings and loan associations	6122	210.1	211.3	221.8	223.9		-	-	-	-	
State associations, insured	6123	160.1	161.6	169.9	172.3		-	-	-	-	
Personal credit institutions	614	227.4	228.2	233.2	235.7		176.2	176.7	179.9	182.0	
Business credit institutions	615	51.7	52.0	53.4	54.0		-	-	-	-	
Mortgage bankers and brokers	616	152.5	156.7	182.7	184.4		-	-	-	-	
Security, commodity brokers, and services	82	390.5	399.0	430.8	442.7						
Security brokers and dealers	621	310.3	317.0	343.2	353.3						
Holding and other investment offices	67	193.0	197.8	208.8	210.3						
Insurance		1,946	1,963	2,035	2,045	2,056					
Insurance carriers	63	1,366.8	1,377.8	1,407.2	1,413.1		931.8	942.8	950.8	953.8	
Life insurance	631	580.0	583.2	582.3	584.4		358.3	362.7	359.0	358.7	
Medical service and health insurance	632	186.4	188.5	192.8	192.7		151.0	153.0	155.0	155.1	
Fire, marine, and casualty insurance	633	501.6	505.8	528.7	532.5		346.8	349.9	356.7	360.1	
Title insurance	636	59.1	60.3	61.3	60.8		-	-	-	-	
Insurance agents, brokers, and service	64	579.5	585.2	627.5	632.0						

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Finance, insurance, and real estate—Continued											
Real estate, and combined real estate, insurance, etc		1,232	1,248	1,271	1,303	1,322					
Real estate	65	1,219.2	1,234.6	1,258.6	1,290.3						
Real estate operators and lessors	651	532.9	539.0	526.0	535.7						
Real estate agents and managers	653	491.8	499.5	521.0	538.5						
Subdividers and developers	655	164.6	165.3	175.2	179.0						
Combined real estate, insurance, etc	66	12.9	12.9	12.4	12.3						
Services		23,280	23,402	24,121	24,267	24,350	20,465	20,568	21,144	21,268	21,329
Hotels and other lodging places	70	1,479.5	1,539.3	1,450.0	1,517.2						
Hotels, motels, and tourist courts	701	1,428.7	1,460.1	1,413.3	1,464.0		1,286.0	1,316.1	1,264.5	1,314.3	
Personal services	72	1,101.4	1,091.2	1,141.1	1,140.7						
Laundry, cleaning, and garment services	721	389.4	387.8	405.6	409.4		347.0	344.9	361.1	364.8	
Photographic studios, portrait	722	56.7	55.6	58.8	59.8		-	-	-	-	
Beauty shops	723	348.6	348.2	351.6	351.7		315.0	315.4	317.8	316.8	
Funeral service and crematories	726	77.1	77.5	79.1	79.1		-	-	-	-	
Business services	73	4,789.5	4,831.2	5,067.6	5,105.3	5,137.2	4,119.7	4,158.9	4,346.8	4,381.3	
Advertising	731	202.5	202.2	199.4	199.1		150.0	149.8	148.3	148.8	
Advertising agencies	7311	149.6	149.3	146.5	146.4		-	-	-	-	
Credit reporting and collection	732	99.7	100.0	105.2	106.3		-	-	-	-	
Mailing, reproduction, and stenographic	733	193.3	194.5	204.4	204.1		-	-	-	-	
Services to buildings	734	689.9	691.2	697.6	697.1		622.4	625.0	632.8	632.3	
Personnel supply services	736	1,006.8	1,035.7	1,170.2	1,186.9		-	-	-	-	
Employment agencies	7361	151.6	153.1	181.7	183.8		-	-	-	-	
Temporary help supply services	7362	800.4	827.8	932.3	944.2		-	-	-	-	
Computer and data processing services	737	591.0	596.0	629.8	634.8		475.7	478.0	494.0	498.4	
Computer programming and software	7372	217.2	219.5	232.8	237.3		-	-	-	-	
Data processing services	7374	276.0	279.2	296.2	297.3		-	-	-	-	
Miscellaneous business services	739	1,997.7	2,003.0	2,051.9	2,067.9						
Research development laboratories, nec	7391	191.7	193.9	196.8	199.2						
Management and public relations	7392	552.6	554.7	570.3	573.4						
Detective and protective services	7393	443.1	447.1	450.1	451.0						
Equipment rental and leasing	7394	211.1	211.6	216.6	221.9						
Photofinishing laboratories	7395	80.2	79.7	78.5	79.7						
Auto repair, services, and garages	75	767.1	771.2	794.8	804.5		642.8	647.1	662.6	669.6	
Automotive rentals, without drivers	751	164.4	165.0	174.5	178.9		-	-	-	-	
Automotive repair shops	753	457.7	462.6	470.2	477.5		381.1	385.6	387.4	393.3	
Miscellaneous repair services	76	321.0	322.0	318.7	321.3		267.0	268.4	265.5	267.8	
Electrical repair shops	762	103.8	105.5	103.5	104.8		-	-	-	-	
Motion pictures	78	225.0	232.9	231.6	229.6		190.9	196.8	196.2	193.5	
Motion picture production and services	781	97.1	103.1	115.0	106.5		79.1	83.3	94.2	85.2	
Motion picture theaters	783	115.7	117.9	103.8	110.2		-	-	-	-	
Amusement and recreation services	79	1,050.5	1,093.6	1,034.2	1,138.0		946.5	989.4	903.0	1,000.4	
Health services	80	6,559.5	6,597.8	6,815.4	6,878.5	6,918.7	5,832.2	5,865.4	6,057.7	6,118.2	
Offices of physicians	801	995.5	1,003.4	1,060.3	1,070.4		824.4	830.6	874.2	884.7	
Offices of dentists	802	462.0	462.2	475.4	481.0		407.5	407.9	419.3	423.9	
Nursing and personal care facilities	805	1,252.4	1,262.3	1,289.5	1,300.2		1,132.0	1,140.8	1,164.5	1,175.3	
Skilled nursing care facilities	8051	837.1	843.7	859.4	866.7		-	-	-	-	
Nursing and personal care, nec	8059	415.3	418.6	430.1	433.5		-	-	-	-	
Hospitals	806	3,038.0	3,052.8	3,120.7	3,149.7		2,768.2	2,781.3	2,846.1	2,874.2	
General medical and surgical hospitals	8062	2,844.1	2,857.2	2,920.8	2,947.8		-	-	-	-	
Psychiatric hospitals	8063	65.5	65.8	67.2	68.0		-	-	-	-	
Specialty hospitals, excluding psychiatric	8069	128.4	129.8	132.7	133.9		-	-	-	-	
Medical and dental laboratories	807	129.0	129.8	138.9	141.0		-	-	-	-	
Outpatient care facilities	808	248.5	251.0	267.6	268.7		-	-	-	-	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Services—Continued											
Legal services	81	760.1	767.2	781.4	807.6		643.3	649.7	656.8	680.5	
Educational services	82	1,302.2	1,216.9	1,459.4	1,281.4						
Elementary and secondary schools	821	352.7	315.1	373.9	351.5						
Colleges and universities	822	801.3	749.5	930.7	777.9						
Correspondence and vocational schools	824	69.6	67.9	72.5	69.9						
Social services	83	1,444.2	1,444.0	1,545.5	1,513.8						
Individual and family services	832	284.3	292.8	311.7	310.7						
Job training and related services	833	260.9	271.9	263.2	270.5						
Residential care	836	321.9	322.1	335.0	339.3						
Museums, botanical and zoological gardens	84	48.1	48.8	51.2	52.6						
Membership organizations	86	1,554.1	1,558.0	1,536.5	1,556.7						
Business associations	861	92.3	94.5	91.4	91.5						
Labor organizations	863	134.3	129.8	131.7	133.1						
Civic and social associations	864	365.4	386.9	351.1	365.3						
Miscellaneous services	89	1,262.8	1,273.5	1,295.7	1,310.4		1,034.3	1,041.8	1,053.4	1,068.0	
Engineering and architectural services	891	688.2	694.8	696.2	708.7		582.6	588.4	585.8	598.3	
Noncommercial research organizations	892	127.5	129.5	128.5	130.8		-	-	-	-	
Accounting, auditing, and bookkeeping	893	421.8	423.5	444.6	444.2		331.1	330.5	345.4	345.0	
Government		16,716	15,811	17,362	17,105	16,277					
Federal Government⁴		2,918	2,918	2,947	2,979	2,984					
Executive, by agency ⁴		2,861.4	2,862.0	2,889.8							
Department of Defense		989.7	990.2	981.9							
Postal Service ⁵		788.4	792.1	813.6							
Other executive agencies		1,083.3	1,079.7	1,094.3							
Legislative		37.7	37.7	37.8							
Judicial		18.5	18.5	19.4							
Federal government, by industry:											
Manufacturing activities		125.1	124.3	125.2	124.5						
Shipbuilding and repairing	3731	75.2	74.7	76.5	76.8						
Transportation and public utilities, except Postal Service		39.0	38.8	40.0	39.3						
Services		412.3	414.6	412.2	415.9						
Hospitals	806	247.4	248.1	251.4	254.7						
State government		3,773	3,673	4,002	3,825	3,738					
Hospitals	806	440.7	444.7	448.3	450.9	-					
Education	82	1,412.7	1,293.0	1,645.3	1,438.3						
General administration, including executive, legislative, and judicial functions		1,345.6	1,358.3	1,338.8	1,355.5						
Local government		10,025	9,220	10,413	10,301	9,555					
Transportation and public utilities		494.9	497.1	490.0	493.7	-					
Hospitals	806	606.0	608.4	617.2	622.5						
Education	82	5,502.1	4,522.8	5,945.3	5,677.6						
General administration, including executive, legislative, and judicial functions		3,086.9	3,219.1	3,030.7	3,154.3						

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

² Data relate to line haul railroads with operating revenues of \$50,000,000 or more.

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

⁴ Prepared by the Office of Personnel Management. Data relate to

civilian employment only and exclude the Central Intelligence Agency and the National Security Agency.

⁵ Includes rural mail carriers.

- Data not available.

^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 forward are subject to revision.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
NOT SEASONALLY ADJUSTED**

B-3. Women employees on nonagricultural payrolls by major industry and manufacturing group

(In thousands)

Industry	Apr. 1986	May 1986	Mar. 1987	Apr. 1987	May 1987
Total	45,316	45,635	46,716	47,036	47,264
Total private	36,708	37,008	37,807	38,110	38,352
Goods-producing	6,762	6,783	6,803	6,828	6,854
Mining	111	108	97	97	97
Construction	492	500	515	525	532
Manufacturing	6,159	6,175	6,191	6,206	6,225
Durable goods	2,981	2,986	2,975	2,978	2,984
Lumber and wood products	108	110	115	116	118
Furniture and fixtures	155	154	158	158	159
Stone, clay, and glass products	112	113	112	113	114
Primary metal industries	101	101	100	100	100
Fabricated metal products	319	320	320	322	323
Machinery, except electrical	454	452	444	446	446
Electrical and electronic equipment	883	885	869	866	866
Transportation equipment	377	377	391	390	390
Instruments and related products	306	305	299	299	299
Miscellaneous manufacturing	167	167	167	168	169
Nondurable goods	3,178	3,189	3,216	3,228	3,241
Food and kindred products	475	484	488	488	494
Tobacco manufactures	19	18	18	17	17
Textile mill products	339	342	349	350	352
Apparel and other textile products	895	893	882	885	887
Paper and allied products	162	163	164	164	165
Printing and publishing	614	614	636	642	641
Chemicals and allied products	285	285	290	290	292
Petroleum and coal products	27	26	24	24	24
Rubber and misc. plastics products	272	272	279	281	281
Leather and leather products	91	90	86	88	89
Service-producing	38,554	38,852	39,913	40,208	40,410
Transportation and public utilities	1,480	1,493	1,511	1,520	1,530
Wholesale trade	1,660	1,670	1,685	1,688	1,688
Retail trade	9,166	9,317	9,334	9,482	9,600
Finance, insurance, and real estate	3,838	3,872	4,052	4,079	4,100
Services	13,802	13,873	14,422	14,513	14,580
Government	8,608	8,627	8,909	8,926	8,912
Federal	1,036	1,037	1,038	1,043	1,050
State	1,891	1,868	1,945	1,949	1,925
Local	5,681	5,722	5,926	5,934	5,937

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1986 forward are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

B-4. Employees on nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

(In thousands)

Industry	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^p	July ^p
Total	99,601	99,772	100,039	100,209	100,415	100,567	100,919	101,150	101,329	101,598	101,708	101,811	102,115
Total private	82,991	83,125	83,241	83,337	83,515	83,643	83,983	84,215	84,352	84,560	84,677	84,769	85,008
Goods-producing	24,628	24,639	24,620	24,611	24,630	24,630	24,708	24,743	24,749	24,759	24,752	24,775	24,849
Mining	764	748	739	735	730	724	718	719	722	729	735	737	742
Oil and gas extraction	439	428	419	416	412	406	405	406	408	416	420	425	430
Construction	4,924	4,946	4,948	4,942	4,946	4,936	5,034	5,038	5,032	5,019	4,999	5,010	5,009
General building contractors	1,290	1,295	1,291	1,289	1,289	1,277	1,311	1,309	1,291	1,272	1,267	1,266	1,267
Manufacturing	18,940	18,945	18,933	18,934	18,954	18,970	18,958	18,986	18,995	19,011	19,018	19,028	19,098
Durable goods	11,199	11,206	11,181	11,169	11,174	11,175	11,157	11,179	11,176	11,175	11,175	11,179	11,194
Lumber and wood products	704	712	716	718	723	728	731	733	734	736	738	736	743
Furniture and fixtures	497	499	499	499	499	499	500	501	502	504	509	510	519
Stone, clay, and glass products	584	584	584	581	582	584	586	588	586	586	584	582	582
Primary metal industries	745	735	732	733	733	733	726	733	739	743	742	746	748
Blast furnaces and basic steel products	278	265	260	262	260	259	254	281	266	272	272	275	275
Fabricated metal products	1,423	1,423	1,424	1,421	1,419	1,422	1,422	1,419	1,419	1,423	1,420	1,423	1,426
Machinery, except electrical	2,058	2,051	2,031	2,022	2,015	2,011	2,007	2,018	2,015	2,022	2,025	2,030	2,037
Electrical and electronic equipment	2,124	2,123	2,118	2,120	2,119	2,118	2,111	2,106	2,099	2,092	2,087	2,080	2,087
Transportation equipment	2,004	2,016	2,015	2,013	2,023	2,018	2,014	2,022	2,022	2,011	2,011	2,012	1,987
Motor vehicles and equipment	848	861	857	850	858	853	851	859	854	847	843	843	805
Instruments and related products	703	703	703	702	700	698	697	695	694	694	693	693	695
Miscellaneous manufacturing	359	360	359	360	361	364	363	364	366	364	366	367	370
Nondurable goods	7,741	7,739	7,752	7,785	7,780	7,795	7,799	7,807	7,819	7,836	7,843	7,849	7,904
Food and kindred products	1,619	1,616	1,619	1,621	1,627	1,631	1,628	1,630	1,635	1,642	1,633	1,633	1,645
Tobacco manufactures	59	58	58	58	59	58	58	58	57	56	57	57	58
Textile mill products	706	707	707	709	714	715	718	722	725	724	727	730	736
Apparel and other textile products	1,103	1,102	1,102	1,104	1,101	1,110	1,106	1,101	1,103	1,104	1,107	1,108	1,127
Paper and allied products	673	671	675	677	678	679	678	679	678	677	677	676	677
Printing and publishing	1,459	1,462	1,465	1,469	1,472	1,474	1,479	1,483	1,485	1,493	1,497	1,498	1,504
Chemicals and allied products	1,022	1,021	1,021	1,020	1,020	1,017	1,018	1,018	1,017	1,018	1,022	1,025	1,025
Petroleum and coal products	168	168	167	166	165	163	164	164	164	164	164	164	164
Rubber and misc. plastics products	783	786	791	794	797	800	803	805	807	809	809	809	815
Leather and leather products	149	148	147	147	147	148	147	147	148	149	150	149	153
Service-producing	74,973	75,133	75,419	75,598	75,785	75,937	76,211	76,407	76,580	76,839	76,956	77,036	77,266
Transportation and public utilities	5,237	5,202	5,255	5,251	5,278	5,286	5,304	5,315	5,333	5,348	5,344	5,351	5,344
Transportation	3,029	3,035	3,050	3,053	3,071	3,078	3,089	3,097	3,112	3,124	3,120	3,129	3,126
Communication and public utilities	2,208	2,167	2,205	2,198	2,207	2,208	2,215	2,218	2,221	2,224	2,224	2,222	2,218
Wholesale trade	5,735	5,736	5,736	5,731	5,728	5,725	5,741	5,757	5,766	5,772	5,775	5,780	5,790
Durable goods	3,385	3,382	3,383	3,379	3,380	3,383	3,386	3,391	3,397	3,397	3,401	3,405	3,412
Nondurable goods	2,350	2,354	2,353	2,352	2,348	2,342	2,355	2,366	2,369	2,375	2,374	2,375	2,378
Retail trade	17,866	17,913	17,939	17,980	18,009	18,007	18,080	18,140	18,136	18,197	18,205	18,217	18,278
General merchandise stores	2,367	2,371	2,374	2,385	2,379	2,363	2,358	2,373	2,380	2,385	2,390	2,386	2,406
Food stores	2,862	2,889	2,892	2,901	2,906	2,916	2,929	2,940	2,944	2,953	2,956	2,960	2,968
Automotive dealers and service stations	1,943	1,949	1,958	1,960	1,963	1,970	1,978	1,979	1,979	1,978	1,978	1,981	1,982
Eating and drinking places	5,887	5,904	5,911	5,919	5,927	5,938	5,946	5,956	5,964	5,962	5,976	5,981	5,986
Finance, insurance, and real estate	6,323	6,351	6,374	6,395	6,418	6,451	6,480	6,501	6,526	6,558	6,576	6,595	6,614
Finance	3,167	3,183	3,193	3,204	3,212	3,227	3,235	3,243	3,256	3,272	3,276	3,287	3,294
Insurance	1,952	1,961	1,971	1,980	1,990	1,999	2,012	2,016	2,022	2,032	2,037	2,039	2,044
Real estate	1,204	1,207	1,210	1,211	1,216	1,225	1,233	1,242	1,248	1,254	1,263	1,269	1,276
Services	23,202	23,284	23,317	23,369	23,452	23,544	23,670	23,759	23,842	23,926	24,025	24,051	24,133
Business services	4,798	4,815	4,835	4,861	4,877	4,912	4,950	4,984	5,020	5,044	5,083	5,085	5,101
Health services	6,563	6,594	6,615	6,644	6,661	6,691	6,721	6,748	6,773	6,800	6,822	6,851	6,884
Government	16,610	16,647	16,798	16,872	16,900	16,924	16,936	16,935	16,977	17,038	17,031	17,042	17,107
Federal	2,872	2,882	2,902	2,897	2,900	2,904	2,912	2,916	2,922	2,933	2,935	2,938	2,937
State	3,881	3,881	3,890	3,907	3,915	3,927	3,929	3,927	3,930	3,943	3,947	3,935	3,951
Local	9,857	9,884	10,008	10,068	10,085	10,093	10,095	10,092	10,125	10,162	10,149	10,169	10,219

^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986

benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total	45,392	45,453	45,661	45,801	45,960	46,111	46,229	46,358	46,517	46,654	46,766	46,937	46,999
Total private	37,006	37,055	37,258	37,382	37,436	37,547	37,653	37,767	37,909	38,057	38,133	38,271	38,337
Goods-producing	6,796	6,783	6,797	6,796	6,800	6,813	6,826	6,842	6,838	6,843	6,846	6,863	6,869
Mining	108	107	105	103	101	100	99	98	97	97	96	97	97
Construction	501	502	507	508	511	513	516	519	522	524	526	530	533
Manufacturing	6,187	6,174	6,185	6,185	6,188	6,200	6,211	6,225	6,219	6,222	6,224	6,236	6,239
Durable goods	2,981	2,968	2,975	2,979	2,979	2,981	2,983	2,985	2,979	2,983	2,978	2,980	2,980
Lumber and wood products	109	110	111	112	112	113	113	115	115	117	117	117	118
Furniture and fixtures	155	155	155	155	155	155	155	155	156	156	157	157	159
Stone, clay, and glass products	113	114	113	113	113	112	112	113	114	113	113	114	114
Primary metal industries	100	99	99	99	100	100	100	99	99	100	100	100	99
Fabricated metal products	319	320	319	320	320	320	321	321	320	320	320	322	322
Machinery, except electrical	451	449	448	445	443	443	442	441	440	441	441	444	444
Electrical and electronic equipment	885	872	885	886	885	886	885	884	880	876	870	868	866
Transportation equipment	377	378	378	381	382	384	387	389	388	392	392	391	390
Instruments and related products	305	304	303	303	303	302	301	301	300	300	299	299	299
Miscellaneous manufacturing	167	167	164	165	166	166	167	167	167	168	169	168	169
Nondurable goods	3,206	3,206	3,210	3,206	3,209	3,219	3,228	3,240	3,240	3,239	3,246	3,256	3,259
Food and kindred products	505	507	506	504	505	508	513	514	514	514	517	518	515
Tobacco manufactures	20	20	20	19	20	19	20	19	19	19	19	18	19
Textile mill products	342	342	345	345	344	345	347	349	349	350	352	351	351
Apparel and other textile products	888	884	887	883	882	883	881	889	883	878	878	880	883
Paper and allied products	163	163	163	163	164	164	165	165	165	165	165	165	165
Printing and publishing	614	617	620	621	623	626	628	629	632	634	636	640	641
Chemicals and allied products	286	287	287	287	287	288	288	287	289	290	290	291	292
Petroleum and coal products	26	26	26	26	25	25	25	25	24	24	24	24	24
Rubber and misc. plastics products	272	272	269	271	272	275	275	276	278	278	278	281	280
Leather and leather products	90	88	87	87	87	86	86	87	87	87	87	88	89
Service-producing	38,596	38,670	38,864	39,005	39,160	39,298	39,403	39,516	39,679	39,811	39,920	40,074	40,130
Transportation and public utilities	1,488	1,441	1,481	1,465	1,486	1,487	1,496	1,501	1,507	1,510	1,517	1,520	1,524
Wholesale trade	1,676	1,665	1,672	1,675	1,675	1,673	1,673	1,675	1,682	1,691	1,695	1,695	1,693
Retail trade	9,350	9,373	9,403	9,452	9,456	9,484	9,501	9,504	9,547	9,607	9,603	9,636	9,629
Finance, insurance, and real estate	3,873	3,898	3,922	3,944	3,961	3,978	3,996	4,016	4,036	4,053	4,064	4,087	4,100
Services	13,823	13,895	13,983	14,050	14,058	14,112	14,161	14,229	14,299	14,353	14,408	14,470	14,522
Government	8,386	8,398	8,403	8,419	8,524	8,564	8,576	8,591	8,608	8,597	8,633	8,666	8,662
Federal	1,032	1,023	1,019	1,024	1,033	1,032	1,033	1,035	1,037	1,038	1,041	1,043	1,045
State	1,840	1,845	1,849	1,850	1,852	1,861	1,865	1,869	1,878	1,871	1,883	1,890	1,897
Local	5,514	5,530	5,535	5,545	5,639	5,671	5,678	5,687	5,693	5,688	5,709	5,733	5,720

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^p	July ^p
Total private	67,123	67,254	67,348	67,411	67,570	67,665	67,939	68,149	68,263	68,419	68,488	68,562	68,755
Goods-producing	17,238	17,265	17,252	17,238	17,270	17,283	17,331	17,379	17,380	17,375	17,360	17,387	17,453
Mining	534	524	518	516	514	510	504	508	511	518	525	526	530
Construction	3,861	3,884	3,883	3,873	3,877	3,867	3,943	3,955	3,944	3,918	3,889	3,894	3,895
Manufacturing	12,843	12,857	12,851	12,849	12,879	12,906	12,884	12,916	12,925	12,939	12,946	12,967	13,028
Durable goods	7,386	7,399	7,382	7,369	7,385	7,393	7,370	7,398	7,399	7,406	7,409	7,423	7,432
Lumber and wood products	590	598	601	603	607	611	611	614	615	617	618	615	622
Furniture and fixtures	397	398	399	399	398	398	400	400	402	403	407	407	416
Stone, clay, and glass products	450	449	450	448	449	451	452	454	453	453	452	451	449
Primary metal industries	559	549	546	546	547	547	540	547	553	559	557	561	562
Blast furnaces and basic steel products	214	201	195	197	194	193	188	194	199	205	205	207	206
Fabricated metal products	1,048	1,051	1,052	1,050	1,049	1,052	1,051	1,051	1,051	1,053	1,050	1,054	1,059
Machinery, except electrical	1,224	1,221	1,203	1,195	1,190	1,187	1,183	1,190	1,190	1,198	1,203	1,210	1,218
Electrical and electronic equipment	1,228	1,229	1,226	1,226	1,230	1,234	1,226	1,223	1,218	1,216	1,215	1,213	1,223
Transportation equipment	1,248	1,261	1,261	1,261	1,273	1,267	1,265	1,276	1,273	1,265	1,265	1,267	1,235
Motor vehicles and equipment	649	660	659	652	663	658	659	668	663	657	655	658	620
Instruments and related products	380	381	382	380	379	379	377	377	376	376	375	376	378
Miscellaneous manufacturing	262	262	262	261	263	267	265	266	268	266	267	269	270
Nondurable goods	5,457	5,458	5,469	5,480	5,494	5,513	5,514	5,518	5,526	5,533	5,537	5,544	5,596
Food and kindred products	1,137	1,135	1,138	1,139	1,146	1,149	1,147	1,150	1,154	1,158	1,153	1,149	1,163
Tobacco manufactures	45	43	44	44	45	44	44	44	44	43	44	42	43
Textile mill products	610	612	612	615	619	621	624	627	630	628	631	634	642
Apparel and other textile products	929	928	928	929	927	937	931	925	926	929	927	930	947
Paper and allied products	510	508	512	514	515	517	515	516	515	514	513	513	515
Printing and publishing	821	822	824	827	828	830	833	833	832	832	836	839	841
Chemicals and allied products	569	570	569	568	568	566	568	569	570	569	572	575	575
Petroleum and coal products	106	106	105	105	105	105	106	106	106	106	107	108	108
Rubber and misc. plastics products	608	612	616	618	620	622	623	625	626	629	629	629	633
Leather and leather products	122	122	121	121	121	122	123	123	123	125	125	125	129
Service-producing	49,885	49,989	50,096	50,173	50,300	50,382	50,608	50,770	50,883	51,044	51,128	51,175	51,302
Transportation and public utilities	4,318	4,290	4,344	4,342	4,368	4,380	4,389	4,401	4,419	4,428	4,429	4,438	4,432
Wholesale trade	4,601	4,602	4,598	4,590	4,586	4,583	4,600	4,611	4,617	4,622	4,623	4,630	4,636
Retail trade	15,911	15,953	15,977	16,013	16,035	16,030	16,097	16,141	16,132	16,189	16,193	16,184	16,240
Finance, insurance, and real estate	4,679	4,699	4,712	4,726	4,743	4,767	4,786	4,806	4,823	4,840	4,844	4,845	4,855
Services	20,376	20,445	20,465	20,502	20,568	20,622	20,736	20,811	20,892	20,965	21,039	21,078	21,139

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

^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

**ESTABLISHMENT DATA
INDEXES OF DIFFUSION
SEASONALLY ADJUSTED**

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

Time span	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span	1985.....	55.9	47.0	52.4	47.3	53.2	46.8	53.8	53.8	47.8	53.2	54.3	57.3
	1986.....	53.2	48.1	48.1	53.5	52.4	46.8	52.4	56.2	55.1	53.2	59.7	59.7
	1987.....	53.5	56.8	58.6	58.4	58.6	^P 58.6	^P 66.2					
Over 3-month span	1985.....	51.1	48.4	42.4	46.5	44.3	49.7	47.0	48.6	45.9	47.6	55.1	56.5
	1986.....	49.7	44.9	45.7	48.4	47.6	45.4	48.4	55.1	55.9	58.1	58.6	60.3
	1987.....	58.6	59.5	61.1	61.6	^P 62.4	^P 65.7						
Over 6-month span	1985.....	46.5	46.5	43.2	44.3	44.3	45.1	43.0	44.3	49.2	49.2	47.3	45.9
	1986.....	47.6	47.6	43.0	43.2	45.4	48.4	47.3	53.0	59.2	58.9	57.8	58.9
	1987.....	61.9	62.7	^P 60.3	^P 68.9								
Over 12-month span	1985.....	44.6	44.1	43.8	40.8	41.6	41.6	42.2	42.4	43.8	44.3	44.1	42.4
	1986.....	43.2	44.1	46.2	45.7	47.8	49.5	49.5	51.6	54.9	52.2	55.1	^P 58.1
	1987.....	^P 63.0											

Based on the number of employees, seasonally adjusted for 1, 3, and 6 month spans, on the payrolls of 185 private nonagricultural industries. Data for the 12-month span are unadjusted.

^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 survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-8. Employees on nonagricultural payrolls in States and selected areas by major industry

(In thousands)

State and area	Total			Mining			Construction		
	June 1988	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Alabama	1,485.3	1,486.3	1,489.7	12.3	11.3	11.3	75.4	76.7	78.3
Birmingham	381.2	391.1	392.7	6.2	6.0	5.9	23.4	24.9	25.5
Huntsville	118.0	120.4	121.4	.1	.1	.1	4.9	5.2	5.3
Mobile	159.9	159.3	159.6	.8	.4	.4	10.7	9.0	8.8
Montgomery	121.7	124.1	123.3	.1	.1	.1	9.2	9.7	9.6
Tuscaloosa	54.7	57.8	56.6	2.7	2.4	2.4	2.9	3.1	3.4
Alaska	228.1	217.2	218.6	8.6	8.3	8.2	14.9	12.0	13.3
Arizona	1,327.3	1,373.7	1,351.5	10.9	11.0	11.1	117.0	105.3	105.3
Phoenix	879.2	904.8	892.9	.6	.6	.6	81.4	70.8	70.4
Tucson	239.1	244.5	241.0	1.6	1.6	1.7	22.5	21.2	21.4
Arkansas	814.4	837.3	834.2	4.2	4.0	4.0	37.2	35.4	36.7
Fayetteville-Springdale	43.8	46.6	46.2	(¹)	(¹)	(¹)	1.9	2.0	2.1
Fort Smith	72.6	74.4	74.6	.9	1.0	1.0	3.0	2.9	2.9
Little Rock-North Little Rock	225.2	228.7	226.7	.4	.4	.4	11.5	11.9	12.1
Pine Bluff	33.9	32.0	32.1	(¹)	(¹)	(¹)	3.8	1.7	1.7
California	11,303.1	11,606.4	11,671.8	40.3	39.0	39.3	529.2	555.6	569.4
Anaheim-Santa Ana	1,049.0	1,086.4	1,094.7	2.3	2.0	2.0	53.4	57.3	58.8
Bakersfield	155.5	157.3	158.3	12.3	12.0	12.0	9.7	9.7	10.1
Fresno	195.9	204.6	204.0	.8	.7	.7	11.9	12.7	12.7
Los Angeles-Long Beach	3,912.5	4,006.1	4,019.5	10.6	10.4	10.5	128.2	133.8	135.0
Modesto	98.4	100.9	102.1	.1	.1	.1	6.2	6.4	6.8
Oakland	791.5	816.9	821.3	2.5	2.4	2.5	45.7	47.6	49.0
Oxnard-Ventura	194.4	200.8	201.9	3.0	2.5	2.5	10.6	11.5	11.7
Riverside-San Bernardino	563.7	595.6	599.4	1.2	1.3	1.3	45.2	49.8	51.8
Sacramento	520.2	540.6	544.1	.8	.7	.7	32.1	32.8	33.5
Salinas-Seaside-Monterey	103.8	106.4	107.6	.5	.5	.5	4.2	4.3	4.5
San Diego	823.4	854.1	857.8	.8	.8	.8	51.6	57.9	58.2
San Francisco	921.1	934.4	936.8	1.1	1.1	1.1	33.6	33.4	34.3
San Jose	770.8	771.5	774.4	.2	.2	.2	31.7	30.5	31.4
Santa Barbara-Santa Maria-Lompoc	145.0	146.6	147.3	1.3	1.4	1.4	6.5	6.2	6.4
Santa Rosa-Petaluma	118.9	122.4	123.5	.6	.6	.6	8.2	8.5	8.8
Stockton	135.3	139.6	139.8	.1	.1	.1	8.7	8.9	9.2
Vallejo-Fairfield-Napa	122.9	128.1	127.6	.3	.3	.3	7.9	8.7	8.7
Colorado	1,416.0	1,402.6	1,407.4	27.7	23.8	23.8	79.0	72.5	74.1
Boulder-Longmont	103.7	105.0	104.5	.3	.3	.3	4.4	3.7	3.8
Denver	815.8	809.2	810.7	17.7	15.8	15.8	43.3	40.4	40.7
Connecticut	1,618.8	1,648.8	1,662.8	1.7	1.7	1.7	73.3	73.6	75.3
Bridgeport-Milford	194.3	198.4	200.0	(¹)	(¹)	(¹)	8.0	8.7	8.9
Hartford	464.0	476.5	480.3	.3	.4	.4	18.9	20.0	19.9
New Britain	65.9	66.0	66.4	(¹)	(¹)	(¹)	3.9	4.3	4.5
New Haven-Meriden	246.3	251.6	253.5	.3	.3	.3	12.4	13.3	13.6
Stamford	124.3	126.5	128.1	.6	.6	.6	5.3	5.4	5.6
Waterbury	85.2	86.9	88.3	(¹)	(¹)	(¹)	4.1	4.4	4.8
Delaware	308.5	315.5	318.3	.1	.1	.1	20.8	19.4	19.7
Wilmington	264.3	273.2	273.9	.2	.2	.2	19.7	17.9	18.2
District of Columbia	639.2	646.5	648.9	.1	.1	.1	14.0	13.9	14.1
Washington MSA	1,997.4	2,043.0	2,054.0	1.1	1.0	1.0	124.8	125.0	127.2
Florida	4,564.0	4,796.2	4,787.1	9.2	9.9	9.9	341.2	339.6	340.6
Daytona Beach	106.5	110.8	111.1	(¹)	(¹)	(¹)	7.6	8.2	8.0
Fort Lauderdale-Hollywood-Pompano Beach	440.2	453.5	453.0	.4	.4	.4	37.1	36.2	36.6
Fort Myers-Cape Coral	99.2	109.7	110.0	(¹)	(¹)	(¹)	11.8	12.7	12.7
Gainesville	87.6	92.4	90.8	(¹)	(¹)	(¹)	4.9	4.3	4.3
Jacksonville	373.3	388.0	389.1	.5	.4	.4	28.3	27.9	28.3
Lakeland-Winter Haven	132.3	142.2	141.8	3.9	4.8	4.8	8.3	9.3	9.4
Melbourne-Titusville-Palm Bay	139.0	139.0	140.1	(¹)	(¹)	(¹)	9.2	7.9	8.3
Miami-Hialeah	798.0	808.3	808.1	.9	.9	.9	40.2	38.3	38.9
Orlando	444.8	474.2	478.1	(¹)	(¹)	(¹)	33.9	33.8	34.0
Pensacola	122.1	122.8	123.9	.3	.3	.3	10.3	10.2	10.3
Sarasota	96.9	101.1	100.6	(¹)	(¹)	(¹)	9.9	9.9	9.8
Tallahassee	100.9	107.5	106.2	(¹)	(¹)	(¹)	5.3	5.9	6.0
Tampa-St. Petersburg-Clearwater	758.2	782.3	780.7	.7	.7	.7	61.3	63.0	63.5
West Palm Beach-Boca Raton-Delray Beach	295.0	318.8	316.9	(¹)	(¹)	(¹)	26.9	30.0	30.4

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	June 1986	May 1987	June 1987 ^a	June 1986	May 1987	June 1987 ^a	June 1986	May 1987	June 1987 ^a
Alabama	362.7	356.9	359.0	71.2	71.7	72.3	319.3	329.0	330.5
Birmingham	55.5	53.0	53.0	27.1	28.0	28.1	95.1	99.0	99.6
Huntsville	31.4	30.4	30.6	2.7	2.7	2.7	22.2	23.0	23.2
Mobile	26.7	28.4	26.6	9.3	9.1	9.3	43.3	44.6	44.7
Montgomery	17.7	17.6	17.6	4.7	4.7	4.7	27.3	28.1	28.0
Tuscaloosa	8.9	9.3	9.4	2.0	2.1	2.1	11.4	11.9	12.0
Alaska	14.6	13.7	14.8	19.3	16.0	18.9	46.1	42.0	42.8
Arizona	183.1	183.9	184.3	65.6	69.3	69.8	323.5	332.6	330.9
Phoenix	130.5	133.1	133.5	43.6	46.5	46.8	220.5	227.5	226.7
Tucson	32.0	30.5	30.4	9.5	9.9	9.9	54.1	54.6	54.2
Arkansas	212.8	216.3	218.0	47.8	49.9	50.5	186.3	191.6	192.8
Fayetteville-Springdale	10.0	10.7	10.8	3.9	4.2	4.3	10.6	11.0	11.0
Fort Smith	24.9	25.7	25.9	3.5	3.7	3.8	15.9	15.2	15.1
Little Rock-North Little Rock	31.9	31.8	31.7	14.7	14.9	14.9	55.0	55.6	55.9
Pine Bluff	5.9	6.3	6.4	2.8	2.8	2.8	6.7	6.4	6.4
California	2,066.8	2,072.0	2,082.0	571.1	585.6	589.5	2,705.6	2,781.9	2,808.4
Anaheim-Santa Ana	243.8	244.4	245.4	34.0	34.6	35.2	260.5	274.8	277.1
Bakersfield	10.0	10.3	10.4	6.1	8.3	8.6	40.0	40.3	40.5
Fresno	20.4	20.7	21.1	10.3	10.4	10.5	50.6	52.3	53.1
Los Angeles-Long Beach	882.6	894.8	896.6	200.9	204.4	205.5	923.1	941.7	948.9
Modesto	22.0	21.0	22.0	4.2	4.2	4.2	24.2	25.9	25.9
Oakland	101.5	103.3	103.7	53.7	55.7	55.9	188.7	204.5	206.1
Oxnard-Ventura	28.9	29.1	29.3	9.4	10.6	10.5	49.1	50.9	51.4
Riverside-San Bernardino	74.0	78.6	78.7	30.6	31.7	32.1	140.7	146.8	146.7
Sacramento	37.9	39.3	39.8	23.3	24.3	24.6	126.6	130.5	132.0
Salinas-Seaside-Monterey	9.9	10.2	10.3	4.9	4.9	5.0	27.5	27.6	28.1
San Diego	122.5	120.1	120.5	32.1	32.8	32.9	196.2	203.4	204.5
San Francisco	78.1	76.6	76.5	79.0	79.0	79.2	210.9	217.5	218.6
San Jose	267.5	258.4	259.9	20.7	21.2	21.3	149.4	152.6	153.6
Santa Barbara-Santa Maria-Lompoc	24.3	22.9	22.9	5.3	5.2	5.2	34.0	35.0	35.2
Santa Rosa-Petaluma	17.8	16.0	16.1	5.4	5.9	5.9	30.9	32.1	32.4
Stockton	21.1	22.0	22.1	8.7	8.5	8.6	31.9	32.4	32.6
Vallejo-Fairfield-Napa	12.5	12.0	12.6	4.5	4.5	4.5	29.3	30.9	31.2
Colorado	186.1	182.7	184.1	87.6	89.1	89.4	353.4	347.6	347.2
Boulder-Longmont	28.2	28.3	28.3	2.3	2.2	2.2	22.9	22.9	23.2
Denver	97.4	94.6	94.9	62.1	64.1	64.5	207.4	203.6	202.2
Connecticut	399.4	392.5	394.0	70.4	72.2	72.8	360.5	371.8	377.4
Bridgeport-Milford	60.6	60.5	61.0	7.5	7.5	7.8	44.6	45.5	45.9
Hartford	93.0	94.4	94.7	17.2	17.6	17.8	98.0	100.0	101.7
New Britain	22.8	20.6	20.6	3.2	3.3	3.2	13.1	13.6	13.9
New Haven-Meriden	47.6	47.1	47.2	18.1	18.3	18.4	56.8	58.4	59.4
Stamford	25.7	24.6	24.5	5.0	5.0	5.1	29.4	30.3	30.8
Waterbury	26.0	24.8	24.8	3.2	3.2	3.2	18.6	17.1	17.4
Delaware	68.5	69.0	69.8	13.0	12.9	13.1	70.3	71.3	72.4
Wilmington	58.1	59.0	59.2	14.1	14.1	14.2	55.6	57.8	58.4
District of Columbia	15.5	15.6	15.7	24.1	24.8	24.9	63.7	64.4	64.4
Washington MSA	86.1	84.2	84.6	89.4	98.5	99.5	403.2	413.4	414.8
Florida	515.7	524.7	524.9	238.1	249.3	249.6	1,226.6	1,309.0	1,307.8
Daytona Beach	12.1	12.9	12.9	3.3	3.3	3.3	31.1	32.5	32.6
Fort Lauderdale-Hollywood-Pompano Beach	43.2	44.1	44.6	20.3	22.2	22.3	129.8	134.0	133.4
Fort Myers-Cape Coral	5.1	5.7	5.7	4.8	5.1	5.1	29.0	33.2	33.0
Gainesville	5.3	5.8	5.6	1.7	1.7	1.7	19.4	20.5	20.6
Jacksonville	37.5	38.0	38.2	26.0	27.7	28.0	100.0	104.0	105.0
Lakeland-Winter Haven	20.3	21.6	21.6	6.0	6.1	6.1	36.7	39.7	39.4
Melbourne-Titusville-Palm Bay	27.9	27.2	27.3	5.6	5.5	5.5	31.5	32.8	32.9
Miami-Hialeah	93.9	92.8	92.9	66.6	66.0	66.2	210.9	217.8	217.2
Orlando	51.0	53.4	53.6	22.3	24.9	24.9	114.6	121.5	122.0
Pensacola	11.3	11.2	11.2	6.0	6.4	6.5	32.2	32.2	32.4
Sarasota	7.9	8.5	8.4	3.6	3.5	3.5	28.5	29.3	29.1
Tallahassee	4.4	4.7	4.9	2.9	3.0	2.9	21.2	22.7	22.7
Tampa-St. Petersburg-Clearwater	90.1	88.8	88.5	37.5	37.2	37.2	207.9	214.5	213.1
West Palm Beach-Boca Raton-Delray Beach	36.4	35.9	36.1	10.4	11.5	11.5	76.7	83.5	82.4

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Alabama	69.3	70.9	71.2	259.3	267.0	269.8	295.8	302.8	297.3
Birmingham	28.5	28.7	29.1	87.2	91.8	92.5	58.2	59.7	59.0
Huntsville	3.5	3.4	3.5	25.1	26.4	26.9	28.1	29.2	29.1
Mobile	7.8	7.3	7.4	34.0	34.4	34.5	27.5	28.1	27.7
Montgomery	7.3	7.3	7.3	24.0	24.3	24.4	31.4	32.3	31.6
Tuscaloosa	2.0	2.0	2.1	7.4	7.9	7.8	17.4	19.1	17.4
Alaska	13.0	11.9	12.0	45.5	42.7	43.9	66.1	66.6	64.7
Arizona	89.5	91.7	91.8	326.8	339.4	338.0	210.9	240.5	220.3
Phoenix	70.6	72.3	72.2	218.1	229.9	228.4	113.9	124.1	114.3
Tucson	12.4	12.9	12.9	61.5	62.6	62.1	45.5	51.2	48.4
Arkansas	37.7	38.2	38.5	147.8	153.6	155.4	140.6	148.3	138.3
Fayetteville-Springdale	1.5	1.4	1.4	6.2	6.8	6.7	9.7	10.5	9.9
Fort Smith	2.7	2.7	2.7	14.8	15.8	16.2	8.9	7.4	7.0
Little Rock-North Little Rock	15.3	15.6	15.5	51.1	52.4	52.6	45.3	46.1	43.8
Pine Bluff	1.8	1.7	1.7	5.8	5.9	6.0	7.3	7.2	7.1
California	770.2	787.2	789.9	2,759.6	2,874.1	2,883.8	1,860.3	1,911.0	1,909.5
Anaheim-Santa Ana	84.0	84.9	85.1	257.4	270.6	274.5	113.8	117.6	116.8
Bakersfield	6.4	6.3	6.3	30.3	31.4	31.3	38.7	39.0	39.1
Fresno	13.7	14.1	14.0	43.8	47.1	46.5	44.6	46.8	45.4
Los Angeles-Long Beach	274.8	281.5	282.5	996.3	1,035.6	1,033.7	496.0	503.9	506.6
Modesto	4.6	4.8	4.6	20.7	21.6	21.6	16.4	17.1	17.1
Oakland	51.7	54.9	55.0	178.7	185.3	186.1	159.0	163.2	163.0
Oxnard-Ventura	10.3	10.6	10.6	43.0	44.7	45.4	40.1	40.7	40.5
Riverside-San Bernardino	24.0	25.2	25.3	129.8	139.2	138.3	118.0	123.0	123.2
Sacramento	31.1	32.2	32.4	107.9	113.3	114.6	160.5	167.5	166.5
Salinas-Seaside-Monterey	5.0	5.2	5.2	25.2	26.0	26.2	26.8	27.7	27.8
San Diego	56.7	58.3	58.7	211.1	223.1	224.2	152.4	157.7	158.0
San Francisco	114.7	112.4	112.4	269.5	275.3	276.4	134.2	139.1	138.3
San Jose	33.1	33.0	33.0	184.5	190.7	190.7	83.7	84.9	84.3
Santa Barbara-Santa Maria-Lompoc	8.1	8.2	8.3	38.3	39.8	39.9	27.2	27.9	28.0
Santa Rosa-Petaluma	8.0	8.2	8.2	28.5	27.1	27.5	21.5	22.0	22.0
Stockton	8.1	8.3	8.3	27.9	28.8	28.2	28.8	30.8	30.7
Vallejo-Fairfield-Napa	4.8	4.8	4.8	27.1	27.8	28.2	36.5	37.1	37.3
Colorado	98.6	97.0	97.8	329.3	326.0	331.4	254.3	263.9	259.6
Boulder-Longmont	3.9	3.9	3.9	20.9	21.8	22.0	20.8	21.9	20.8
Denver	66.5	65.5	65.9	199.7	199.3	201.1	121.7	125.9	125.8
Connecticut	141.4	145.5	147.1	375.0	388.6	391.9	197.1	202.9	202.6
Bridgeport-Milford	10.8	11.4	11.7	44.7	46.4	46.7	18.1	18.4	18.2
Hartford	74.8	78.0	78.8	103.0	106.9	107.8	58.8	59.2	59.2
New Britain	3.7	4.1	4.2	12.8	13.5	13.8	6.4	6.6	6.4
New Haven-Meriden	14.8	15.0	15.3	65.8	68.1	68.4	30.5	31.1	30.9
Stamford	11.3	11.7	12.0	36.8	38.7	39.4	10.2	10.2	10.1
Waterbury	4.1	4.1	4.3	19.1	21.2	21.6	12.1	12.3	12.4
Delaware	23.3	24.8	25.3	68.2	71.1	72.3	44.5	47.0	45.6
Wilmington	21.0	22.8	23.2	60.3	63.5	64.3	35.4	37.9	36.1
District of Columbia	36.4	37.2	37.4	219.5	227.9	228.7	265.8	262.7	263.6
Washington MSA	115.8	120.0	121.8	620.7	638.2	642.9	556.3	562.9	561.9
Florida	342.1	354.9	357.3	1,201.1	1,274.0	1,273.6	690.0	734.8	723.4
Daytona Beach	6.5	6.6	6.6	28.5	29.1	29.4	17.4	18.2	18.3
Fort Lauderdale-Hollywood-Pompano Beach	36.7	38.0	38.3	118.0	121.8	120.8	54.7	56.8	56.6
Fort Myers-Cape Coral	7.7	8.5	8.7	26.5	29.0	29.2	14.4	15.4	15.5
Gainesville	4.1	4.0	4.0	19.7	21.2	21.3	32.4	35.0	33.2
Jacksonville	35.5	36.7	37.0	90.3	94.7	94.9	55.2	58.8	57.3
Lakeland-Winter Haven	8.1	7.9	8.0	30.4	33.8	33.6	18.6	19.0	18.9
Melbourne-Titusville-Palm Bay	5.2	5.2	5.1	39.6	40.1	39.9	19.9	20.4	21.0
Miami-Hialeah	87.7	69.3	69.7	213.8	215.4	214.4	104.2	107.8	107.9
Orlando	30.1	32.3	32.7	142.7	153.9	156.8	50.1	54.3	54.2
Pensacola	5.5	5.8	5.8	29.3	29.4	30.0	27.2	27.5	27.6
Sarasota	8.0	8.0	8.2	27.4	29.8	29.3	11.8	12.2	12.2
Tallahassee	4.5	4.5	4.5	20.7	21.0	21.2	41.6	45.4	43.7
Tampa-St. Petersburg-Clearwater	81.6	63.3	63.8	203.7	214.2	214.5	95.4	100.6	99.4
West Palm Beach-Boca Raton-DeLray Beach	25.4	27.4	27.3	82.7	91.1	90.2	36.5	39.2	39.0

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Total			Mining			Construction		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Georgia	2,875.8	2,752.8	2,755.9	8.1	8.8	8.9	156.6	156.5	156.8
Albany	48.0	48.8	48.1	(¹)	(¹)	(¹)	2.2	2.1	2.1
Athens	81.1	63.5	82.9	.1	.2	.2	2.7	2.7	2.8
Atlanta	1,325.1	1,386.0	1,387.4	1.3	1.8	1.8	77.4	78.7	78.7
Augusta	150.5	151.8	151.1	.5	.5	.5	9.1	8.5	8.5
Columbus	90.3	90.8	91.1	.1	.1	.1	5.4	5.3	5.4
Macon-Warner Robins	115.8	117.4	117.9	.1	.1	.1	5.1	5.0	5.2
Savannah	99.8	101.4	101.7	(¹)	(¹)	(¹)	6.9	7.1	7.2
Hawaii	437.3	450.9	451.0	(¹)	(¹)	(¹)	18.1	21.8	21.8
Honolulu	350.7	362.0	362.6	(¹)	(¹)	(¹)	14.8	17.9	17.8
Idaho	337.3	341.2	343.6	2.9	2.5	2.8	15.6	15.0	16.3
Boise City	87.5	88.6	89.5	(²)	(²)	(²)	5.0	4.8	5.1
Illinois	4,778.3	4,852.9	4,874.6	25.5	24.9	24.9	184.7	176.6	183.7
Aurora-Elgin	131.5	134.7	137.3	(¹)	(¹)	(¹)	5.5	5.5	6.0
Bloomington-Normal	51.5	53.9	52.9	(¹)	(¹)	(¹)	1.4	1.3	1.4
Champaign-Urbana-Rantoul	78.8	83.9	79.2	(¹)	(¹)	(¹)	2.2	2.0	2.2
Chicago	2,988.1	2,989.9	3,020.3	3.3	3.4	3.4	115.5	118.9	123.8
Davenport-Rock Island-Moline	155.2	154.9	155.7	(¹)	(¹)	(¹)	4.8	4.9	4.9
Decatur	50.5	49.3	49.7	(¹)	(¹)	(¹)	1.7	1.6	1.7
Joliet	94.5	93.6	93.8	(¹)	(¹)	(¹)	4.2	4.2	4.2
Kankakee	32.5	32.6	33.1	(¹)	(¹)	(¹)	1.2	1.2	1.2
Lake County	178.4	179.5	183.1	(¹)	(¹)	(¹)	7.2	6.3	6.7
Peoria	131.7	131.5	131.2	(¹)	(¹)	(¹)	5.2	5.5	5.6
Rockford	122.2	121.7	122.4	(¹)	(¹)	(¹)	3.7	3.7	3.7
Springfield	94.3	92.8	93.5	(¹)	(¹)	(¹)	2.5	2.3	2.4
Indiana	2,228.6	2,315.2	2,303.1	9.1	8.5	8.6	98.3	111.7	117.4
Anderson	48.7	47.8	47.6	(²)	(²)	(²)	1.4	1.4	1.5
Bloomington	45.0	50.9	49.2	(²)	(²)	(²)	1.9	2.1	2.3
Elkhart-Goshen	93.4	97.6	98.1	(²)	(²)	(²)	2.5	2.8	3.0
Evansville	122.1	125.1	125.5	2.4	2.2	2.2	8.4	8.7	8.8
Fort Wayne	176.8	182.4	183.4	(²)	(²)	(²)	8.8	9.1	9.6
Gary-Hammond	213.5	216.2	218.4	(²)	(²)	(²)	11.3	12.2	12.4
Indianapolis	581.7	602.2	603.5	.8	.8	.8	29.5	32.0	33.2
Kokomo	43.8	44.7	44.3	(²)	(²)	(²)	1.3	1.2	1.3
Lafayette	56.9	60.5	59.4	(²)	(²)	(²)	2.0	2.5	2.6
Muncie	47.3	50.6	47.9	(²)	(²)	(²)	1.9	2.0	2.1
South Bend-Mishawaka	105.2	110.2	108.5	(²)	(²)	(²)	4.7	5.1	5.4
Terre Haute	51.2	51.7	50.9	.5	.4	.4	1.9	1.8	1.9
Iowa	1,083.8	1,112.9	1,110.1	2.2	2.2	2.2	38.8	39.9	42.5
Cedar Rapids	82.4	83.5	82.5	.2	.2	.2	3.1	3.5	3.4
Des Moines	199.8	204.2	206.0	(¹)	(¹)	(¹)	7.9	7.0	7.3
Dubuque	40.3	42.3	42.0	(¹)	(¹)	(¹)	1.3	1.2	1.2
Iowa City	46.7	50.2	46.9	(¹)	(¹)	(¹)	1.4	1.7	1.8
Sioux City	49.2	48.9	49.3	(¹)	(¹)	(¹)	1.8	1.8	1.8
Waterloo-Cedar Falls	58.0	61.4	59.5	(¹)	(¹)	(¹)	1.9	1.6	1.8
Kansas	988.5	999.5	1,000.0	11.9	11.8	11.8	47.6	42.7	45.4
Lawrence	28.7	31.7	29.5	(¹)	(¹)	(¹)	1.3	1.2	1.4
Topeka	84.9	85.6	85.9	(¹)	(¹)	(¹)	3.7	3.7	3.9
Wichita	206.3	214.1	214.4	2.2	2.3	2.3	10.9	11.4	12.2
Kentucky	1,278.2	1,311.6	1,309.1	40.4	39.4	39.5	59.3	83.5	65.1
Lexington-Fayette	167.3	173.6	171.8	.9	1.0	1.0	9.8	12.7	12.7
Louisville	423.6	433.7	437.9	.7	.7	.8	21.6	22.9	23.8
Owensboro	32.6	32.6	32.0	.9	1.1	1.1	2.0	2.0	2.1
Louisiana	1,518.2	1,491.3	1,489.3	60.6	56.8	59.0	89.2	84.0	84.4
Alexandria	45.6	46.1	46.1	.2	.2	.2	2.6	2.7	2.7
Baton Rouge	211.1	213.4	211.2	1.0	1.0	1.0	19.3	20.2	19.7
Houma-Thibodaux	54.8	52.1	52.5	6.1	6.0	6.2	1.7	1.5	1.5
Lafayette	87.7	82.5	82.7	11.6	11.0	11.1	3.7	3.0	3.1
Lake Charles	57.8	57.5	58.8	1.3	1.3	1.3	5.1	5.0	4.9
Monroe	56.0	54.7	55.1	.4	.6	.7	3.3	3.1	3.1
New Orleans	519.9	507.9	507.4	16.6	16.8	17.2	25.5	23.2	23.8
Shreveport	135.2	131.8	130.2	3.6	3.2	3.2	7.7	7.9	7.7
Maine	488.1	493.9	505.9	.1	.1	.1	29.0	30.7	32.1
Lewiston-Auburn	38.2	39.0	39.3	(¹)	(¹)	(¹)	2.0	1.9	2.0
Portland	118.5	118.6	120.3	(¹)	(¹)	(¹)	7.9	7.5	7.9

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	June 1988	May 1987	June 1987 ^a	June 1988	May 1987	June 1987 ^a	June 1988	May 1987	June 1987 ^a
Georgia	563.3	569.0	570.0	164.3	169.0	170.7	688.6	694.4	695.7
Albany	8.7	8.5	8.6	2.2	2.2	2.2	12.4	12.5	12.4
Athens	15.1	15.4	15.4	1.7	1.7	1.7	12.4	12.8	12.6
Atlanta	190.8	193.4	193.0	105.7	110.7	112.0	364.9	387.4	387.9
Augusta	38.3	36.1	36.0	5.1	5.1	5.1	32.7	33.2	33.2
Columbus	19.9	19.7	19.6	3.5	3.4	3.5	20.0	20.3	20.4
Macon-Warner Robins	19.0	19.4	19.5	5.0	5.1	5.2	25.3	25.2	25.2
Savannah	16.6	17.0	17.0	9.8	9.8	9.6	24.0	23.7	24.0
Hawaii	22.9	21.8	22.0	34.3	34.4	34.8	116.4	118.9	120.1
Honolulu	17.0	16.1	16.5	28.0	27.9	28.4	91.3	93.7	94.7
Idaho	52.5	53.9	55.5	18.7	18.5	18.6	84.6	84.4	85.3
Boise City	10.4	10.6	10.7	5.5	5.8	5.9	22.2	22.6	22.9
Illinois	923.9	927.1	928.3	271.8	282.1	283.1	1,180.4	1,221.1	1,227.5
Aurora-Elgin	35.3	38.1	36.4	4.7	5.1	5.1	36.2	36.9	37.6
Bloomington-Normal	4.5	5.1	5.1	3.1	2.9	2.9	12.4	12.5	12.5
Champaign-Urbana-Rantoul	7.5	7.9	7.8	2.4	2.0	1.9	18.9	19.2	19.3
Chicago	551.4	538.0	542.2	188.0	191.6	193.1	735.1	741.7	748.3
Davenport-Rock Island-Moline	33.8	34.1	34.0	8.3	8.3	8.3	42.2	42.3	42.3
Decatur	14.6	13.4	13.5	4.5	4.6	4.5	10.9	11.0	11.0
Joliet	19.5	19.2	19.3	8.8	8.4	8.4	22.3	22.3	22.4
Kankakee	5.2	5.4	5.4	1.5	1.4	1.4	8.1	8.1	8.1
Lake County	40.0	39.5	39.9	6.6	6.6	6.6	45.7	45.8	46.7
Peoria	31.7	30.7	30.5	6.6	6.6	6.6	32.8	33.1	33.4
Rockford	44.5	43.2	42.6	4.5	4.4	4.5	28.2	28.3	28.4
Springfield	3.9	3.8	3.8	4.7	4.7	4.8	19.3	19.3	19.3
Indiana	607.8	606.0	608.6	113.7	115.5	116.7	528.8	554.2	559.1
Anderson	18.4	17.0	17.0	1.4	1.4	1.4	10.7	11.1	11.1
Bloomington	8.0	8.4	8.5	1.6	1.7	1.7	11.1	12.0	11.9
Elkhart-Goshen	50.3	52.5	52.8	2.8	2.8	2.8	17.8	18.5	18.8
Evansville	29.2	30.2	29.9	6.5	6.5	6.5	30.5	31.4	31.6
Fort Wayne	48.6	49.5	49.9	11.7	11.8	11.9	43.4	45.1	45.4
Gary-Hammond	56.5	54.1	54.5	14.0	13.8	13.9	50.5	51.5	52.0
Indianapolis	107.8	106.5	106.8	34.5	36.3	36.8	148.8	153.0	154.1
Kokomo	19.2	18.7	18.7	1.4	1.4	1.4	9.5	9.9	10.1
Lafayette	10.3	11.4	11.5	1.7	1.6	1.6	12.3	12.8	12.7
Muncie	10.9	10.8	10.6	2.2	2.3	2.3	12.1	12.2	12.2
South Bend-Mishawaka	24.1	23.9	23.9	4.6	4.9	4.9	27.7	28.7	28.9
Terre Haute	10.8	10.1	10.1	2.6	2.5	2.6	14.0	14.0	14.0
Iowa	204.9	210.2	211.7	52.0	52.9	53.2	277.6	280.6	281.7
Cedar Rapids	22.6	22.3	22.5	4.1	4.0	4.2	20.3	20.5	20.4
Des Moines	22.5	22.8	22.7	11.8	12.0	12.0	52.4	52.0	52.6
Dubuque	11.9	12.0	12.1	1.7	1.6	1.6	9.3	9.9	10.1
Iowa City	3.7	3.6	3.9	1.1	1.3	1.3	9.2	9.2	9.2
Sioux City	10.2	8.1	8.1	3.3	3.6	3.7	12.0	12.4	12.6
Waterloo-Cedar Falls	12.3	13.1	13.1	1.9	1.8	1.7	14.3	14.5	14.4
Kansas	176.7	177.3	179.6	62.8	63.0	63.3	248.5	249.8	251.5
Lawrence	4.5	4.4	4.5	1.3	1.3	1.3	6.4	6.8	6.6
Topeka	9.6	9.5	9.5	6.9	6.6	6.7	18.9	19.2	19.4
Wichita	55.2	58.7	59.1	9.9	9.9	10.0	50.1	50.3	50.5
Kentucky	254.3	256.8	259.5	66.8	70.5	71.1	303.9	303.2	306.7
Lexington-Fayette	28.1	27.6	27.6	7.7	7.6	7.6	39.6	40.5	40.7
Louisville	86.3	85.8	87.2	25.7	26.5	26.9	105.6	106.0	106.9
Owensboro	5.8	5.4	5.5	2.3	2.3	2.3	8.4	7.9	7.8
Louisiana	166.4	166.2	166.2	105.7	105.3	106.9	372.6	356.2	358.6
Alexandria	3.3	3.4	3.4	2.4	2.4	2.4	10.8	11.0	11.1
Baton Rouge	19.1	16.7	19.0	10.3	10.5	10.6	52.1	52.4	52.5
Houma-Thibodaux	5.0	4.1	4.2	6.0	5.9	6.1	13.8	13.1	13.4
Lafayette	6.0	5.7	5.8	6.9	6.5	6.4	23.9	21.9	21.9
Lake Charles	8.6	10.3	10.4	3.8	3.6	3.8	14.1	13.5	13.7
Monroe	7.5	7.2	7.2	2.9	2.5	2.7	15.2	14.8	14.8
New Orleans	43.4	43.2	43.3	42.9	41.4	41.5	138.9	132.5	132.5
Shreveport	19.0	18.3	18.4	8.4	8.1	7.9	32.5	29.6	29.7
Maine	105.1	101.6	103.1	19.3	19.7	20.1	121.2	121.4	127.4
Lewiston-Auburn	10.4	10.1	10.1	1.4	1.4	1.4	9.0	9.1	9.3
Portland	16.6	15.7	15.3	6.0	6.1	6.3	34.5	34.9	36.0

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Georgia	148.0	149.9	150.4	507.0	534.2	536.7	461.9	470.8	466.6
Albany	2.5	2.5	2.5	8.0	8.1	8.0	12.1	12.7	12.3
Athens	2.0	2.0	2.0	8.9	9.5	9.6	18.2	19.2	18.5
Atlanta	94.7	97.5	97.8	304.7	325.0	325.7	185.7	191.4	190.5
Augusta	5.8	6.1	6.1	29.0	28.7	28.6	32.0	33.5	33.2
Columbus	6.1	6.1	6.2	15.3	15.6	15.6	20.0	20.1	20.4
Macon-Warner Robins	7.3	7.5	7.5	20.4	20.9	20.8	33.4	34.2	34.2
Savannah	4.5	4.3	4.4	22.6	23.0	23.1	15.1	16.4	16.5
Hawaii	33.0	33.4	33.6	118.9	123.2	123.5	93.7	97.4	95.2
Honolulu	28.0	28.3	28.5	92.5	95.9	96.5	79.1	82.2	80.2
Idaho	24.0	24.2	24.3	68.0	68.0	68.4	71.0	74.7	72.7
Boise City	8.7	8.6	6.6	19.1	19.1	19.5	16.6	17.1	16.8
Illinois	348.1	352.5	356.9	1,129.7	1,142.9	1,157.7	714.2	725.7	712.5
Aurora-Elgin	6.9	6.8	6.9	28.2	29.4	30.3	14.6	14.8	14.9
Bloomington-Normal	9.3	9.3	9.4	11.3	11.3	11.2	9.5	11.5	10.4
Champaign-Urbana-Rantoul	3.2	3.3	3.3	14.8	14.5	14.8	29.8	35.0	29.9
Chicago	252.8	255.7	259.1	760.7	777.4	785.4	361.3	363.2	365.0
Davenport-Rock Island-Moline	7.9	8.0	8.1	30.8	30.0	30.7	27.6	27.3	27.4
Decatur	2.8	2.7	2.7	10.5	10.4	10.7	5.5	5.6	5.6
Joliet	3.8	3.8	3.8	19.9	19.3	19.7	15.8	16.2	15.8
Kankakee	1.6	1.6	1.6	8.5	8.1	8.7	8.4	6.8	6.7
Lake County	6.6	6.4	6.5	41.8	44.4	46.0	29.8	29.8	30.0
Peoria	7.0	7.1	7.1	32.8	32.3	32.7	15.8	16.2	15.3
Rockford	5.4	5.5	5.5	24.1	24.2	25.6	11.8	12.4	12.1
Springfield	7.9	8.0	8.0	24.3	22.6	23.1	31.6	32.0	32.0
Indiana	112.1	114.5	117.3	431.2	449.6	449.2	325.7	355.2	326.2
Anderson	1.7	1.6	1.6	9.0	9.4	9.1	6.1	6.0	5.8
Bloomington	1.7	1.7	1.8	7.6	7.9	8.1	13.1	17.1	14.9
Elkhart-Goshen	2.4	2.4	2.4	12.2	13.0	12.8	5.4	5.6	5.5
Evansville	5.0	5.0	5.1	28.0	29.1	29.1	12.1	11.9	12.3
Fort Wayne	11.9	11.7	12.1	35.7	37.3	37.3	18.7	17.9	17.3
Gary-Hammond	8.1	8.2	8.3	43.7	45.8	45.5	29.4	30.5	29.8
Indianapolis	43.8	44.7	45.5	129.8	139.2	138.0	96.9	89.9	88.3
Kokomo	1.4	1.4	1.4	6.0	6.3	6.4	5.0	5.7	4.9
Lafayette	2.9	3.0	3.1	10.9	11.3	11.3	16.8	17.8	16.7
Muncie	1.6	1.6	1.6	10.1	10.2	10.4	8.4	11.5	8.6
South Bend-Mishawaka	5.8	5.8	5.9	28.2	30.5	29.1	10.3	11.4	10.3
Terre Haute	1.9	1.9	1.9	10.5	11.0	10.7	9.0	9.9	9.3
Iowa	63.7	64.1	64.8	237.8	245.3	241.7	206.8	217.7	212.5
Cedar Rapids	4.7	4.5	4.5	17.9	18.3	18.3	9.5	10.2	9.0
Des Moines	25.6	26.7	27.1	49.7	52.9	53.4	29.8	30.7	30.8
Dubuque	1.4	1.5	1.5	11.5	12.6	11.9	3.2	3.5	3.6
Iowa City	1.5	1.6	1.7	7.7	8.0	7.7	22.0	24.5	21.2
Sioux City	2.7	2.6	2.6	12.7	13.9	13.8	6.5	6.5	6.7
Waterloo-Cedar Falls	3.2	3.3	3.3	13.5	14.4	14.0	10.8	12.7	11.2
Kansas	55.0	55.5	56.3	195.0	199.0	200.2	191.0	200.4	191.9
Lawrence	1.0	1.1	1.1	5.1	5.6	5.4	9.1	11.3	9.2
Topeka	5.9	6.2	6.3	16.8	19.5	19.6	21.0	20.8	20.4
Wichita	10.9	11.2	11.3	43.0	44.5	45.0	24.1	25.8	24.0
Kentucky	60.2	61.5	62.2	259.3	270.6	270.4	234.2	248.1	234.6
Lexington-Fayette	8.8	9.0	9.2	39.2	39.6	39.1	33.2	35.6	33.9
Louisville	27.8	29.2	29.5	97.6	102.2	103.0	58.4	60.4	60.0
Owensboro	1.4	1.4	1.4	7.3	7.3	7.2	4.5	5.2	4.6
Louisiana	88.5	84.8	85.1	317.8	317.2	314.8	319.4	319.0	312.3
Alexandria	2.6	2.6	2.6	11.1	11.1	11.0	12.6	12.7	12.7
Baton Rouge	13.8	13.4	13.5	41.7	41.9	42.2	53.8	55.3	52.7
Houma-Thibodaux	2.6	2.4	2.4	8.6	8.3	8.3	11.0	10.8	10.4
Lafayette	4.2	4.0	4.0	18.7	17.6	17.6	12.7	12.8	12.8
Lake Charles	2.7	2.7	2.7	11.2	10.7	10.7	11.0	10.4	11.3
Monroe	4.6	4.5	4.6	11.2	11.5	11.5	10.9	10.5	10.5
New Orleans	34.1	33.6	34.1	131.7	132.6	130.8	86.8	84.6	84.2
Shreveport	7.9	7.7	7.7	32.0	31.4	31.5	24.1	25.8	24.1
Maine	23.1	24.0	24.2	103.9	106.8	110.4	86.4	89.6	88.5
Lewiston-Auburn	2.1	2.2	2.2	9.5	10.3	10.3	3.8	4.0	4.0
Portland	11.0	11.7	11.8	27.6	28.3	29.0	14.7	14.4	14.0

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Total			Mining			Construction		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Maryland	1,977.8	2,000.8	2,004.5	1.7	1.7	1.7	143.6	144.1	145.7
Baltimore MSA	1,063.9	1,072.6	1,076.5	.2	.2	.2	68.1	70.0	70.9
Baltimore City	458.5	459.5	458.7	(¹)	(¹)	(¹)	18.7	17.6	18.2
Suburban Maryland-D.C.	667.1	716.4	717.2	.5	.4	.4	81.5	62.8	63.2
Massachusetts	3,011.9	3,057.9	3,063.0	1.8	2.4	2.4	128.5	129.8	134.3
Boston	1,688.2	1,727.0	1,732.7	.8	.9	1.0	66.5	67.1	70.2
Brockton	70.9	72.6	73.2	(¹)	(¹)	(¹)	3.8	4.9	5.0
Fall River	55.3	56.2	57.0	(¹)	(¹)	(¹)	2.2	2.8	3.0
Fitchburg-Leominster	40.2	40.3	40.3	(¹)	(¹)	(¹)	2.2	2.2	2.3
Lawrence-Haverhill	154.7	161.8	164.2	(¹)	(¹)	(¹)	10.2	9.1	9.2
Lowell	105.1	105.7	105.8	.2	.1	.1	5.1	5.4	5.6
New Bedford	66.4	66.2	67.4	(¹)	(¹)	(¹)	3.0	3.6	3.8
Pittsfield	43.1	43.7	44.6	.1	.1	.1	2.0	2.3	2.3
Springfield	233.1	241.1	243.2	.2	.2	.2	8.7	9.3	9.5
Worcester	192.1	197.8	199.4	.2	.2	.2	8.8	9.4	9.9
Michigan	3,652.0	3,704.7	3,717.6	10.8	11.1	11.3	120.8	135.1	139.9
Ann Arbor	153.7	160.3	158.9	(¹)	(¹)	(¹)	5.5	5.4	5.8
Battle Creek	55.1	56.0	56.1	(¹)	(¹)	(¹)	1.5	1.6	1.7
Benton Harbor	62.2	63.3	63.0	(¹)	(¹)	(¹)	1.5	1.5	1.6
Detroit	1,856.9	1,887.5	1,896.0	.9	.9	.9	63.6	70.7	74.3
Flint	181.2	173.3	175.4	(¹)	(¹)	(¹)	5.8	5.4	5.6
Grand Rapids	299.4	305.3	305.2	(¹)	(¹)	(¹)	14.5	15.7	16.2
Jackson	49.3	49.8	49.7	(¹)	(¹)	(¹)	1.2	1.4	1.5
Kalamazoo	100.2	102.4	102.1	(¹)	(¹)	(¹)	3.4	3.2	3.3
Lansing-East Lansing	195.1	203.1	201.3	(¹)	(¹)	(¹)	6.0	5.0	5.2
Muskegon	58.6	58.2	58.3	(¹)	(¹)	(¹)	2.0	1.8	1.9
Saginaw-Bay City-Midland	152.0	153.7	154.6	(¹)	(¹)	(¹)	6.3	6.0	6.3
Minnesota	1,916.4	1,947.9	1,982.1	8.0	6.1	7.0	81.7	82.4	88.4
Duluth	85.9	83.6	86.2	4.6	3.1	4.2	3.8	3.7	4.1
Minneapolis-St. Paul	1,245.9	1,262.4	1,270.3	(¹)	(¹)	(¹)	52.5	54.2	56.3
Rochester	55.6	56.2	57.1	(¹)	(¹)	(¹)	2.1	2.0	2.1
St. Cloud	65.2	69.4	67.6	(¹)	(¹)	(¹)	3.7	4.6	5.0
Mississippi	847.5	863.5	856.1	6.4	6.2	6.4	36.5	35.3	35.7
Jackson	169.8	174.4	173.2	1.1	1.1	1.1	8.6	8.6	8.8
Missouri	2,141.9	2,166.7	2,156.6	5.7	5.5	5.8	103.3	101.0	102.9
Kansas City	718.5	717.4	716.8	.8	.8	.6	35.6	35.7	36.3
St. Joseph	35.8	35.9	35.6	(¹)	(¹)	(¹)	1.6	1.6	1.7
St. Louis	1,102.8	1,102.0	1,105.9	3.7	3.4	3.5	58.6	54.2	55.8
Springfield	101.5	105.2	103.3	.1	.1	.1	4.4	4.6	4.5
Montana	284.5	278.6	279.5	5.8	6.3	6.3	12.0	9.6	9.8
Nebraska	658.2	667.0	665.8	2.0	2.0	2.1	26.6	23.9	25.2
Lincoln	107.0	109.2	107.4	(¹)	(¹)	(¹)	4.1	3.7	3.8
Omaha	294.7	296.8	299.0	.2	.2	.2	13.1	12.8	13.6
Nevada	470.7	499.0	501.6	6.4	6.8	7.0	29.0	30.4	31.2
Las Vegas	261.8	264.2	263.5	.3	.3	.3	17.5	18.6	18.9
Reno	127.7	131.3	132.4	.7	.7	.8	7.3	7.5	7.7
New Hampshire	498.0	500.4	508.3	.6	.5	.6	37.9	34.9	36.1
Nashua	86.1	89.0	90.3	.1	.1	.1	4.9	5.0	5.2
Portsmouth-Dover-Rochester,NH-ME	107.3	107.6	110.0	.1	.1	.1	5.6	5.1	5.3
New Jersey	3,526.6	3,575.9	3,623.9	2.3	2.3	2.3	159.2	168.9	174.3
Atlantic City	170.8	167.4	179.4	(¹)	(¹)	(¹)	10.0	11.2	11.4
Bergen-Passaic	651.0	655.2	661.2	.1	.1	.1	30.0	31.4	32.4
Camden	410.5	419.2	423.7	.1	.1	.1	20.8	23.1	24.0
Jersey City	237.2	241.7	243.9	(¹)	(¹)	(¹)	6.5	6.7	6.9
Middlesex-Somerset-Hunterdon	493.3	502.7	507.6	.6	.5	.6	22.7	22.1	23.0
Monmouth-Ocean	317.4	317.8	327.2	(¹)	(¹)	(¹)	19.8	20.8	21.6
Newark	948.7	956.4	963.9	.7	.7	.7	37.0	38.0	39.3
Trenton	189.3	194.8	194.8	(¹)	(¹)	(¹)	4.6	5.1	5.3
Vineland-Milville-Bridgeton	54.8	58.2	58.7	.4	.4	.4	2.3	2.8	2.8

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	June 1986	May 1987	June 1987 ^P	June 1988	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Maryland	211.5	207.8	208.3	90.4	93.6	94.5	505.1	510.3	513.6
Baltimore MSA	133.9	131.0	131.4	55.4	55.2	55.5	260.5	263.3	265.0
Baltimore City	47.9	45.2	45.3	27.7	27.2	27.1	97.2	96.1	97.7
Suburban Maryland-D.C.	36.0	34.6	35.0	22.9	25.4	25.7	185.1	191.3	191.6
Massachusetts	618.1	605.8	607.5	127.5	128.9	130.8	714.0	717.7	730.6
Boston	296.4	289.4	290.3	74.2	75.1	76.0	376.6	388.8	392.8
Brockton	11.8	11.0	11.1	5.2	5.0	5.1	20.7	21.7	22.0
Fall River	17.3	16.5	16.8	1.8	2.0	2.0	14.0	14.8	14.8
Fitchburg-Leominster	13.2	13.1	13.1	1.6	1.5	1.4	9.9	10.3	10.2
Lawrence-Haverhill	44.9	50.5	50.4	6.7	6.8	7.0	35.6	37.3	38.8
Lowell	38.4	37.0	36.8	3.4	3.2	3.2	22.0	21.9	21.9
New Bedford	20.7	20.6	21.0	3.2	3.2	3.3	15.3	14.8	15.2
Pittsfield	12.1	11.7	11.9	1.0	1.1	1.1	11.0	11.4	11.6
Springfield	52.4	52.9	53.4	9.1	9.1	9.3	54.3	56.6	57.0
Worcester	46.0	45.0	45.5	8.4	8.1	8.3	46.9	49.3	49.9
Michigan	1,009.4	972.5	977.1	144.9	150.9	150.9	819.2	838.7	848.0
Ann Arbor	36.6	36.4	36.6	4.6	4.8	4.9	24.8	27.6	27.6
Battle Creek	15.2	15.5	15.5	1.9	1.8	1.8	10.4	10.4	10.7
Benton Harbor	21.7	21.1	21.3	2.5	2.6	2.6	12.3	12.3	12.6
Detroit	496.9	478.6	477.2	80.2	85.5	85.6	427.4	439.5	441.8
Flint	86.5	57.1	58.3	4.7	4.6	4.5	42.8	43.1	43.4
Grand Rapids	94.9	93.5	94.5	10.5	11.0	10.9	74.9	76.2	76.6
Jackson	12.8	12.8	12.8	4.2	4.2	4.1	10.8	10.9	10.9
Kalamazoo	29.6	29.2	29.3	3.3	3.4	3.5	22.8	23.4	23.5
Lansing-East Lansing	38.2	37.2	36.8	5.5	5.2	5.2	39.0	39.3	39.3
Muskegon	18.6	17.9	17.9	2.7	2.5	2.6	12.3	12.2	12.4
Saginaw-Bay City-Midland	45.6	44.4	44.9	7.0	7.3	7.2	34.6	35.1	35.7
Minnesota	372.5	367.0	373.1	96.6	98.2	98.3	478.4	480.9	486.5
Duluth	7.4	7.3	7.3	5.7	5.3	5.4	22.2	21.8	22.2
Minneapolis-St. Paul	253.3	249.5	251.7	86.4	86.1	86.5	305.6	307.5	310.6
Rochester	10.8	10.1	10.4	1.6	1.6	1.6	11.3	11.6	11.6
St. Cloud	11.6	12.2	12.0	3.6	3.7	3.9	19.9	21.0	21.0
Mississippi	224.2	223.2	224.3	36.9	39.9	40.0	183.2	187.2	188.0
Jackson	20.1	20.3	20.2	10.9	11.3	11.3	41.7	42.4	42.6
Missouri	423.4	410.6	417.3	137.9	142.9	143.5	513.1	510.7	512.8
Kansas City	116.1	111.0	111.0	55.1	55.0	55.0	182.5	181.4	182.7
St. Joseph	9.2	9.1	9.3	2.1	2.0	2.0	8.7	8.7	8.6
St. Louis	224.2	214.2	220.2	73.2	74.8	75.0	261.3	261.0	262.2
Springfield	20.5	19.4	19.5	6.5	6.5	6.7	27.7	28.9	28.7
Montana	21.8	20.9	21.5	20.4	20.3	20.5	74.5	72.4	72.9
Nebraska	86.6	84.7	85.8	43.3	44.0	44.3	169.2	172.9	173.0
Lincoln	13.0	12.9	13.1	6.0	5.9	6.0	25.0	24.9	25.1
Omaha	32.5	31.9	32.4	22.9	23.9	24.1	75.5	77.2	77.8
Nevada	22.3	23.1	23.6	26.6	27.6	28.0	95.5	99.5	101.1
Las Vegas	8.1	8.6	8.7	15.0	15.9	16.1	55.2	57.8	58.4
Reno	8.2	8.4	8.6	6.7	8.7	8.9	28.4	29.5	29.9
New Hampshire	119.1	117.3	118.4	16.9	17.6	17.7	122.8	125.0	127.9
Nashua	36.0	35.5	36.0	2.2	2.1	2.2	19.1	20.4	20.5
Portsmouth-Dover-Rochester,NH-ME	20.8	19.9	20.2	2.9	3.0	3.0	29.0	28.4	30.3
New Jersey	697.3	684.3	687.5	225.5	231.0	232.5	845.7	855.4	873.2
Atlantic City	8.3	8.2	8.1	6.1	6.1	6.2	40.8	35.5	42.0
Bergen-Passaic	163.7	159.8	160.4	26.4	26.7	29.3	183.7	184.9	186.2
Camden	75.8	73.6	74.3	16.8	17.5	17.4	107.9	109.0	110.0
Jersey City	53.7	52.7	54.1	30.2	30.1	30.2	58.0	58.4	58.8
Middlesex-Somerset-Hunterdon	112.9	113.7	114.8	37.5	40.1	39.9	119.0	119.5	120.8
Monmouth-Ocean	30.7	29.5	29.8	15.1	16.0	16.2	89.4	88.6	92.8
Newark	188.7	187.3	187.6	78.3	79.2	79.5	194.1	197.7	196.8
Trenton	31.7	31.7	31.8	6.1	8.5	6.4	30.4	31.4	31.5
Vineland-Millville-Bridgeton	15.2	15.4	15.5	2.2	2.1	2.2	10.9	11.3	11.4

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Maryland	119.2	120.4	122.7	512.6	525.9	528.8	393.5	397.0	389.2
Baltimore MSA	72.3	73.8	74.8	267.9	270.5	272.4	205.6	208.6	206.3
Baltimore City	44.8	45.4	46.2	133.1	137.8	136.7	89.1	88.1	87.4
Suburban Maryland-D.C.	38.8	39.8	40.6	199.9	203.6	205.9	152.4	158.3	154.8
Massachusetts	205.8	214.7	218.4	821.4	863.9	861.4	394.8	394.7	397.6
Boston	141.4	146.2	148.8	530.9	559.9	551.9	199.4	199.6	201.7
Brockton	3.1	3.2	3.2	14.5	14.9	14.8	11.8	11.9	12.0
Fall River	2.8	2.9	3.0	10.6	10.7	10.9	6.8	6.5	6.5
Fitchburg-Leominster	1.8	1.6	1.7	7.3	7.1	7.1	4.4	4.5	4.5
Lawrence-Haverhill	6.0	8.3	6.6	31.7	32.2	32.9	19.6	19.6	19.5
Lowell	4.0	4.4	4.5	19.0	20.8	20.7	13.0	13.1	13.0
New Bedford	2.5	2.6	2.7	12.1	12.4	12.4	9.6	9.0	9.0
Pittsfield	2.1	2.2	2.2	10.0	10.3	11.0	4.8	4.6	4.6
Springfield	15.8	18.4	16.7	55.0	58.1	58.2	37.6	38.5	38.9
Worcester	12.7	13.0	13.3	45.5	48.7	48.4	23.6	24.1	23.9
Michigan	172.0	179.5	182.3	788.4	805.3	805.8	586.6	611.7	602.3
Ann Arbor	4.4	4.7	4.8	31.6	32.8	33.3	44.2	46.8	43.7
Battle Creek	3.8	3.6	3.4	11.0	11.5	11.3	11.3	11.6	11.6
Benton Harbor	2.4	2.5	2.6	13.5	14.5	14.0	8.2	8.7	8.3
Detroit	99.3	103.6	104.7	451.0	485.7	488.7	235.4	242.9	242.9
Flint	6.2	6.5	6.6	32.4	32.5	32.7	23.0	24.2	24.2
Grand Rapids	13.3	13.5	13.6	61.0	63.5	62.5	30.0	31.8	30.4
Jackson	1.6	1.5	1.5	9.5	9.3	9.2	9.1	9.5	9.5
Kalamazoo	4.4	4.7	4.6	22.5	23.2	23.4	13.9	15.2	14.2
Lansing-East Lansing	10.8	11.4	11.5	34.6	36.7	36.9	60.5	68.1	65.9
Muskegon	1.4	1.4	1.4	11.1	11.4	11.7	8.4	8.8	8.5
Saginaw-Bay City-Midland	6.1	6.0	6.1	30.9	32.1	32.3	20.8	22.5	21.8
Minnesota	117.3	120.4	121.7	450.3	468.3	489.1	311.7	324.6	318.0
Duluth	3.2	3.1	3.1	20.4	20.0	20.4	18.6	19.3	19.5
Minneapolis-St. Paul	90.4	93.0	94.2	307.3	317.0	317.3	169.6	174.2	172.9
Rochester	1.6	1.6	1.6	22.2	23.3	23.5	6.0	6.1	6.2
St. Cloud	2.4	2.4	2.4	12.6	13.0	12.3	11.1	12.5	11.0
Mississippi	37.7	38.7	39.1	135.0	138.7	138.2	185.5	194.3	184.5
Jackson	13.6	14.1	14.2	36.0	37.6	37.0	37.7	39.0	37.9
Missouri	130.2	134.4	135.7	495.7	505.7	510.7	332.6	354.9	330.1
Kansas City	56.8	57.1	57.6	162.4	164.4	165.5	109.4	112.2	110.1
St. Joseph	1.9	1.9	1.9	6.9	6.8	6.7	5.4	5.8	5.4
St. Louis	70.6	72.8	73.4	274.3	282.9	283.6	136.9	138.7	132.0
Springfield	5.2	5.2	5.2	25.5	26.6	26.3	11.8	13.9	12.3
Montana	13.3	13.1	13.2	63.8	63.4	64.5	73.1	72.6	70.8
Nebraska	47.5	48.8	49.1	148.0	149.4	149.7	135.0	141.3	138.6
Lincoln	7.8	7.9	8.0	22.1	23.4	23.1	29.0	30.5	28.3
Omaha	26.8	30.2	30.4	78.4	76.6	77.7	43.3	44.0	42.8
Nevada	22.8	24.0	24.4	208.8	222.5	224.7	59.1	65.1	61.6
Las Vegas	13.5	14.5	14.7	123.3	135.9	138.2	28.9	32.8	30.2
Reno	8.9	7.1	7.2	52.4	52.9	53.8	15.1	16.5	15.5
New Hampshire	28.5	30.5	30.9	109.9	110.6	113.3	82.3	84.0	83.4
Nashua	3.3	3.5	3.6	16.4	16.3	16.7	6.1	6.1	6.0
Portsmouth-Dover-Rochester,NH-ME	5.7	6.3	6.4	19.3	19.9	20.8	23.9	24.9	23.9
New Jersey	211.2	217.9	221.9	845.3	871.1	886.3	542.2	545.0	545.9
Atlantic City	6.9	6.8	7.3	72.7	73.9	77.7	25.9	25.8	26.6
Bergen-Passaic	35.0	37.0	37.7	143.0	146.1	147.6	67.1	67.2	67.5
Camden	22.1	23.1	23.5	95.6	98.8	99.8	71.4	74.0	74.6
Jersey City	10.0	10.6	10.9	40.5	42.7	42.5	40.2	40.5	40.5
Middlesex-Somerset-Hunterdon	33.2	33.5	34.1	96.0	101.0	101.9	71.4	72.3	72.5
Monmouth-Ocean	16.8	17.4	17.7	64.7	64.3	67.1	60.9	61.1	61.9
Newark	73.9	75.9	76.7	240.1	243.9	245.9	136.0	135.7	135.4
Trenton	9.0	9.0	9.1	53.4	56.2	55.3	54.0	54.9	55.2
Vineland-Millville-Bridgeton	2.8	2.9	2.9	9.7	10.0	10.1	11.4	11.3	11.4

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED

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

(In thousands)

State and area	Total			Mining			Construction		
	June 1986	May 1987	June 1987 ^a	June 1986	May 1987	June 1987 ^a	June 1986	May 1987	June 1987 ^a
New Mexico	528.4	535.3	537.7	15.5	14.7	14.9	36.8	34.8	35.8
Albuquerque	226.5	232.1	232.5	.2	.2	.2	17.8	17.2	17.2
Las Cruces	39.7	40.7	40.5	.1	.1	.1	2.8	2.8	2.8
Santa Fe	54.3	54.7	55.8	.1	.1	.1	3.3	3.4	3.4
New York	7,889.7	8,084.5	8,159.7	8.2	8.4	6.5	321.9	336.9	351.5
Albany-Schenectady-Troy	396.8	401.1	403.3	.4	.3	.3	18.1	19.3	20.4
Binghamton	118.3	119.4	119.8	(^b)	(^b)	(^b)	5.4	5.3	5.7
Buffalo	426.4	430.8	434.0	.4	.4	.4	16.8	18.1	17.1
Elmira	36.3	36.3	38.9	(^b)	(^b)	(^b)	1.6	1.5	1.7
Glens Falls	46.9	46.4	46.9	(^b)	(^b)	(^b)	2.1	2.2	2.4
Nassau-Suffolk	1,121.8	1,127.3	1,139.8	.2	.2	.2	57.8	57.0	59.1
New York PMSA	4,077.1	4,118.4	4,133.7	1.4	1.3	1.3	148.2	151.6	154.8
New York City	3,553.8	3,594.4	3,606.9	.8	.7	.7	114.8	117.7	119.8
Niagara Falls	79.8	79.2	79.8	(^b)	(^b)	(^b)	3.0	2.8	3.0
Orange County	97.9	98.7	100.1	(^b)	(^b)	(^b)	4.6	4.7	5.0
Poughkeepsie	116.5	118.4	118.9	(^b)	(^b)	(^b)	6.3	6.7	6.9
Rochester	456.7	458.4	459.5	.8	.8	.8	17.4	16.4	17.4
Rockland County	97.2	97.5	99.1	(^b)	(^b)	(^b)	4.9	5.1	5.2
Syracuse	292.5	295.5	295.8	.3	.2	.2	18.1	14.4	15.0
Utica-Rome	120.8	120.0	120.6	.2	.2	.2	4.3	4.1	4.2
Westchester County	406.6	406.9	409.9	.3	.3	.3	27.2	27.4	28.0
North Carolina	2,743.5	2,823.1	2,836.6	4.8	4.8	4.9	159.7	166.2	169.8
Asheville	78.0	76.7	78.5	.1	.1	.1	4.0	3.8	4.0
Charlotte-Gastonia-Rock Hill	545.2	562.1	565.0	.3	.3	.3	31.7	33.4	33.8
Greensboro-Winston-Salem-High Point	448.4	456.8	457.8	.3	.3	.3	25.2	24.5	25.0
Raleigh-Durham	366.4	375.6	378.7	.4	.4	.4	24.1	24.7	25.3
North Dakota	252.8	252.8	253.5	4.5	3.9	4.1	12.7	11.2	12.7
Bismarck	36.5	36.8	37.1	.2	.2	.2	1.7	1.8	1.9
Fargo-Moorhead	87.1	70.9	69.8	(^b)	(^b)	(^b)	3.7	3.3	3.8
Grand Forks	26.3	29.8	28.8	(^b)	(^b)	(^b)	1.9	1.6	1.9
Ohio	4,510.9	4,600.3	4,613.6	22.5	20.4	20.4	166.1	173.8	182.1
Akron	259.8	266.8	263.0	.7	.6	.6	9.1	10.0	10.7
Canton	153.3	155.6	156.5	1.0	1.0	1.0	5.7	6.3	6.7
Cincinnati	654.5	678.7	678.3	.4	.3	.3	26.8	28.7	29.7
Cleveland	890.8	900.8	906.7	1.2	.9	.8	27.3	26.9	28.0
Columbus	634.1	656.6	660.7	.9	.9	1.0	24.7	27.2	28.3
Dayton-Springfield	420.3	433.8	433.7	.4	.5	.5	15.5	17.9	19.0
Toledo	270.5	285.6	283.2	.2	.2	.2	9.8	10.5	10.9
Youngstown-Warren	189.6	193.3	194.3	.6	.5	.5	7.4	8.1	8.9
Oklahoma	1,145.6	1,132.9	1,134.5	54.3	52.7	52.4	40.5	40.1	41.1
Enid	22.5	21.7	21.8	1.2	1.2	1.2	.8	.8	.8
Lawton	33.9	32.9	32.9	.2	.2	.2	1.3	1.4	1.4
Oklahoma City	411.6	404.0	403.8	12.6	11.6	11.3	13.9	14.3	14.7
Tulsa	300.5	300.8	302.5	17.6	18.9	17.1	12.3	13.0	13.1
Oregon	1,071.9	1,094.5	1,109.9	1.5	1.4	1.4	36.3	35.1	36.8
Eugene-Springfield	100.6	103.5	104.7	.2	.2	.2	3.0	3.1	3.4
Portland	533.6	548.6	554.2	.6	.5	.5	19.6	18.3	19.0
Salem	91.8	91.6	93.9	.1	.1	.1	3.2	2.7	2.9
Pennsylvania	4,826.4	4,921.5	4,953.7	34.2	31.5	31.5	213.1	224.0	234.1
Allentown-Bethlehem	266.1	269.4	272.1	.5	.5	.6	11.2	12.1	12.7
Altoona	50.5	50.5	51.3	(^b)	(^b)	(^b)	2.8	2.9	3.0
Beaver County	52.2	50.8	51.1	(^b)	(^b)	(^b)	3.7	4.0	4.1
Erie	109.4	110.4	111.2	.3	.3	.3	3.4	3.3	3.8
Harrisburg-Lebanon-Carlisle	285.3	294.3	296.1	.4	.4	.4	11.7	12.2	12.4
Johnstown	77.2	76.5	78.8	3.9	3.9	3.8	3.0	3.0	3.3
Lancaster	173.3	180.7	181.1	.4	.4	.4	9.5	10.3	10.7
Philadelphia PMSA	2,102.8	2,156.8	2,187.1	1.3	1.2	1.3	96.0	102.3	105.6
Philadelphia City	762.2	772.3	773.5	(^b)	(^b)	(^b)	18.8	18.5	18.8
Pittsburgh	850.9	858.6	864.7	6.8	6.8	6.7	43.2	44.0	45.9

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	June 1986	May 1987	June 1987 ^a	June 1986	May 1987	June 1987 ^a	June 1986	May 1987	June 1987 ^a
New Mexico	37.6	36.2	38.6	26.6	28.7	28.1	127.6	128.9	130.7
Albuquerque	19.6	19.6	19.7	12.2	12.3	12.3	58.4	59.6	60.1
Las Cruces	3.4	3.7	3.7	1.2	1.3	1.2	7.7	7.8	7.7
Santa Fe	1.7	1.6	1.6	1.3	1.1	1.1	10.2	10.9	11.2
New York	1,259.8	1,212.0	1,220.6	402.5	408.5	411.3	1,687.4	1,713.7	1,732.1
Albany-Schenectady-Troy	51.4	47.9	48.0	15.9	16.8	16.7	84.8	85.4	86.0
Binghamton	38.1	36.7	37.3	4.1	4.2	4.2	24.8	26.0	26.0
Buffalo	77.1	75.3	76.3	21.7	22.0	22.0	106.7	108.6	109.6
Elmira	6.8	7.5	7.7	1.3	1.3	1.3	10.2	10.6	10.7
Glens Falls	10.1	10.4	10.5	1.5	1.3	1.4	11.1	10.9	11.8
Nassau-Suffolk	161.1	177.3	177.4	46.6	49.0	49.4	302.3	304.6	309.1
New York PMSA	477.6	485.3	486.7	242.2	242.0	242.9	766.1	765.8	769.6
New York City	392.3	383.5	384.4	217.8	218.7	217.4	640.8	640.0	643.2
Niagara Falls	24.8	23.7	23.9	3.8	3.7	3.6	16.1	16.2	16.4
Orange County	15.3	14.6	14.9	5.7	5.6	5.7	25.6	26.2	26.5
Poughkeepsie	32.4	30.2	30.4	3.2	3.4	3.4	21.3	21.7	22.1
Rochester	138.5	132.7	134.5	14.0	14.0	14.1	96.9	98.6	99.6
Rockland County	18.0	15.8	16.0	4.2	4.2	4.2	23.1	23.4	23.6
Syracuse	55.5	52.6	53.1	16.4	17.0	17.1	69.8	71.6	72.0
Utica-Rome	25.4	23.4	23.9	4.5	4.7	4.8	26.4	26.2	26.2
Westchester County	67.8	84.2	64.5	19.6	20.5	20.7	97.8	97.8	98.4
North Carolina	829.9	844.5	850.6	133.9	134.3	134.7	607.8	627.4	628.8
Asheville	20.4	19.6	19.8	3.6	3.7	3.7	17.4	17.3	17.4
Charlotte-Gastonia-Rock Hill	147.8	150.1	151.7	46.7	48.4	48.4	129.2	132.3	132.6
Greensboro-Winston-Salem-High Point	149.9	152.0	152.6	24.7	25.1	25.2	99.4	102.5	103.0
Raleigh-Durham	58.9	57.6	58.0	17.7	18.3	18.4	75.4	77.0	76.9
North Dakota	15.8	15.6	15.7	15.6	15.8	15.8	66.1	67.5	67.7
Bismarck	2.0	1.9	1.9	2.7	2.7	2.7	9.7	9.8	9.9
Fargo-Moorhead	4.8	4.9	5.0	4.0	4.2	4.1	20.4	21.0	21.0
Grand Forks	1.6	1.8	1.8	1.5	1.4	1.4	8.0	6.2	8.1
Ohio	1,118.3	1,091.0	1,091.9	203.7	210.8	211.8	1,072.4	1,098.2	1,105.7
Akron	67.5	64.5	64.6	13.0	13.3	13.4	63.6	65.6	66.0
Canton	44.6	42.5	42.6	5.8	6.0	6.0	38.3	39.5	39.9
Cincinnati	147.9	148.1	145.1	33.6	34.7	34.9	165.5	172.5	173.6
Cleveland	207.4	203.9	204.2	41.4	41.6	41.7	215.6	217.5	219.5
Columbus	106.2	102.6	103.0	26.6	26.7	26.9	155.8	161.4	161.8
Dayton-Springfield	106.6	104.7	104.6	14.8	15.0	15.1	94.8	97.7	98.2
Toledo	63.3	62.0	62.4	13.3	14.6	14.7	66.7	68.9	69.2
Youngstown-Warren	52.1	50.9	51.0	7.7	8.1	8.2	46.9	47.6	47.9
Oklahoma	164.4	157.7	158.9	63.9	62.7	63.2	280.8	274.3	275.5
Enid	1.6	1.6	1.6	2.3	2.1	2.2	6.7	6.2	6.3
Lawton	3.4	3.3	3.4	1.4	1.3	1.2	6.8	6.5	6.4
Oklahoma City	50.2	48.4	48.6	20.0	20.3	20.4	103.6	98.5	98.1
Tulsa	51.5	49.1	49.3	22.5	22.8	22.8	73.3	74.0	74.4
Oregon	200.8	197.0	203.2	56.9	57.3	57.6	271.5	274.9	279.6
Eugene-Springfield	18.4	18.9	19.2	4.1	4.1	4.1	25.9	26.3	26.6
Portland	91.7	91.1	92.0	32.8	33.2	33.7	140.9	144.7	147.0
Salem	13.3	11.6	13.5	2.5	2.5	2.5	21.0	21.3	21.6
Pennsylvania	1,060.9	1,036.1	1,045.5	237.1	244.8	245.1	1,097.5	1,132.7	1,143.4
Allentown-Bethlehem	80.1	78.3	76.5	14.1	14.4	14.5	58.4	60.4	61.2
Altoona	11.4	11.1	11.0	4.6	4.9	4.6	12.3	12.7	12.7
Beaver County	11.1	9.9	10.0	5.1	5.1	5.1	11.1	11.3	11.4
Erie	35.2	34.1	34.4	4.2	4.0	4.0	23.3	23.8	24.0
Harrisburg-Lebanon-Carlisle	50.2	50.6	51.3	17.6	18.3	18.5	63.5	67.2	67.2
Johnstown	12.8	13.0	13.1	4.9	5.1	4.7	16.4	16.8	16.7
Lancaster	59.5	59.9	60.3	6.9	7.4	7.5	42.0	43.7	44.2
Philadelphia PMSA	387.3	376.7	380.6	94.2	97.5	96.0	484.6	503.6	503.8
Philadelphia City	100.5	98.1	98.6	44.1	45.7	45.9	147.7	150.3	150.4
Pittsburgh	131.2	127.4	128.3	43.8	44.3	43.7	215.5	217.4	221.4

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	June 1986	May 1987	June 1987 ^a	June 1986	May 1987	June 1987 ^a	June 1986	May 1987	June 1987 ^a
New Mexico	26.9	27.3	27.4	119.4	122.1	124.3	135.8	140.6	138.1
Albuquerque	14.3	14.9	15.0	60.7	63.2	63.7	43.3	45.1	44.3
Las Cruces	1.6	1.6	1.6	5.6	6.0	6.1	17.3	17.6	17.3
Santa Fe	2.1	2.2	2.2	14.0	13.9	14.3	21.6	21.5	21.7
New York	761.6	778.3	787.2	2,137.3	2,220.2	2,227.0	1,393.1	1,418.6	1,423.5
Albany-Schenectady-Troy	21.4	22.3	22.5	95.5	97.9	98.0	109.7	111.4	111.3
Binghamton	3.9	3.8	3.9	21.2	21.9	22.0	20.8	21.4	20.8
Buffalo	24.6	24.6	24.8	106.7	110.0	110.0	72.3	73.7	73.9
Elmira	1.2	1.2	1.2	8.9	8.4	9.5	6.5	6.7	6.7
Glens Falls	1.9	1.9	1.9	11.0	10.2	11.4	9.0	9.3	9.2
Nassau-Suffolk	71.8	74.3	75.2	281.4	284.1	286.8	160.6	180.9	182.6
New York PMSA	560.7	568.8	573.4	1,224.7	1,252.6	1,256.9	656.0	669.1	668.3
New York City	530.6	537.7	542.0	1,082.4	1,110.4	1,113.4	574.2	587.7	586.0
Niagara Falls	1.8	1.6	1.8	15.7	16.5	16.0	12.4	12.4	12.5
Orange County	4.1	4.1	4.2	20.8	21.0	21.2	21.8	22.3	22.5
Poughkeepsie	4.2	4.5	4.6	24.6	25.6	25.1	24.5	24.1	24.3
Rochester	21.3	21.2	21.7	104.3	109.4	106.7	63.4	65.2	64.8
Rockland County	3.9	4.0	4.1	23.6	23.6	24.0	21.5	21.5	21.9
Syracuse	19.1	19.1	19.3	65.5	66.6	67.0	49.6	51.8	52.0
Utica-Rome	6.5	6.8	6.8	24.7	25.1	25.1	28.7	29.7	29.6
Westchester County	25.6	26.5	26.7	113.9	113.9	114.8	58.5	56.2	56.5
North Carolina	119.8	126.2	128.0	456.0	474.9	478.5	431.9	444.8	443.5
Asheville	2.7	2.7	2.7	17.9	16.8	16.2	11.8	12.5	12.7
Charlotte-Gastonia-Rock Hill	32.5	34.4	34.8	96.5	100.7	101.5	80.8	82.5	82.0
Greensboro-Winston-Salem-High Point	21.8	22.1	22.3	75.5	77.9	77.5	51.5	52.3	51.9
Raleigh-Durham	21.8	23.2	23.5	84.9	89.8	89.6	83.2	64.7	84.7
North Dakota	12.6	12.5	12.7	59.6	60.4	60.6	63.7	65.9	64.2
Bismarck	1.7	1.6	1.6	10.0	10.2	10.2	8.5	8.6	8.7
Fargo-Moorhead	4.3	4.5	4.5	17.8	19.1	18.2	12.3	13.9	13.2
Grand Forks	1.2	1.2	1.2	6.2	6.4	6.4	7.9	9.2	8.0
Ohio	239.5	242.0	244.4	1,012.8	1,059.5	1,070.3	679.8	704.6	687.0
Akron	10.1	10.5	10.4	56.8	57.9	59.1	39.1	44.4	38.3
Canton	6.5	6.5	6.6	33.7	34.7	35.2	17.8	19.0	18.6
Cincinnati	38.2	39.9	40.5	157.9	165.7	167.7	84.2	88.7	86.3
Cleveland	52.3	54.3	55.0	227.5	237.8	239.5	118.2	117.9	117.9
Columbus	53.9	55.9	56.4	146.3	156.5	159.0	119.7	121.4	122.3
Dayton-Springfield	17.4	17.9	18.1	100.5	105.2	106.8	70.4	74.8	71.4
Toledo	11.1	11.5	11.5	67.1	74.3	74.7	39.0	43.5	39.5
Youngstown-Warren	8.2	8.4	8.5	43.4	44.8	45.0	23.4	24.8	24.3
Oklahoma	63.4	62.6	63.3	227.8	227.4	229.2	250.5	255.4	250.9
Enid	1.2	1.0	1.0	5.3	5.2	5.2	3.4	3.6	3.5
Lawton	1.5	1.5	1.5	5.7	5.5	5.7	11.6	11.2	11.1
Oklahoma City	26.6	25.9	26.4	86.7	88.9	87.5	98.0	98.1	96.8
Tulsa	17.8	17.5	17.7	69.2	70.8	71.3	36.3	36.7	36.8
Oregon	69.8	72.7	73.8	231.0	245.4	245.5	204.3	210.7	212.0
Eugene-Springfield	4.6	4.8	4.8	22.3	23.4	23.6	22.1	22.7	22.8
Portland	43.1	45.3	45.8	127.8	137.3	137.4	77.3	78.2	78.8
Salem	5.3	5.5	5.5	17.8	18.6	18.3	28.4	29.5	29.5
Pennsylvania	280.0	287.2	291.1	1,223.6	1,272.3	1,277.9	680.0	692.9	685.1
Allentown-Bethlehem	10.6	10.8	11.0	61.5	64.4	65.0	29.7	30.5	30.6
Altoona	1.5	1.6	1.6	10.4	10.3	10.8	7.5	7.0	7.4
Beaver County	1.8	1.7	1.7	11.0	11.1	10.8	8.4	7.7	8.0
Erie	5.1	5.2	5.2	25.1	25.9	26.1	12.8	13.8	13.4
Harrisburg-Lebanon-Carlisle	16.1	16.6	16.7	60.9	61.9	63.4	64.9	67.1	66.2
Johnstown	4.9	5.1	5.1	18.3	19.1	19.3	13.0	12.7	12.8
Lancaster	6.5	6.8	6.8	34.1	36.5	36.6	14.4	15.7	14.6
Philadelphia PMSA	153.8	157.5	159.0	586.1	614.5	616.2	299.7	301.5	302.6
Philadelphia City	70.1	70.6	71.3	239.3	246.5	246.7	141.7	140.6	141.8
Pittsburgh	52.0	53.4	53.9	254.7	260.3	260.2	103.7	105.2	104.6

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Total			Mining			Construction		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Pennsylvania—Continued									
Reading	144.4	148.0	148.7	(¹)	(¹)	(¹)	6.1	6.2	6.6
Scranton—Wilkes-Barre	284.5	284.8	287.6	0.8	0.7	0.7	11.9	11.5	12.4
Sharon	40.8	41.9	41.5	.2	.2	.2	1.2	1.4	1.6
State College	48.3	53.2	50.2	.2	.2	.2	2.3	2.3	2.5
Williamsport	47.4	48.5	50.3	(¹)	(¹)	(¹)	1.9	2.0	2.1
York	165.0	168.5	168.0	.4	.4	.4	8.7	9.0	9.4
Rhode Island									
Pawtucket—Woonsocket—Attleboro	444.9	451.2	451.0	.1	.1	.1	18.3	18.4	18.9
Providence	132.5	134.0	134.2	.1	.1	.1	4.8	4.6	4.8
Providence	310.5	319.3	319.2	.1	.1	.1	13.8	15.9	16.2
South Carolina									
Charleston	1,344.9	1,389.8	1,393.0	1.6	1.6	1.7	89.8	91.2	93.6
Columbia	182.2	188.3	188.3	(¹)	(¹)	(¹)	14.0	14.5	15.0
Columbia	216.5	220.0	219.3	(¹)	(¹)	(¹)	14.5	15.1	15.2
Greenville—Spartanburg	298.7	303.4	304.9	(¹)	(¹)	(¹)	22.8	21.7	22.2
South Dakota									
Rapid City	259.1	256.2	260.2	2.7	2.6	2.6	10.9	10.2	11.0
Rapid City	34.4	34.4	35.3	.3	.3	.3	2.5	2.2	2.3
Sioux Falls	63.6	62.1	63.8	(¹)	(¹)	(¹)	2.6	2.4	2.6
Tennessee									
Chattanooga	1,925.7	2,011.4	2,013.9	7.5	7.0	7.1	88.8	98.1	98.8
Johnson City—Kingsport—Bristol	180.9	182.1	179.4	1.0	1.0	1.0	7.1	7.0	7.2
Knoxville	151.4	155.2	155.0	.2	.1	.1	5.2	5.3	5.6
Memphis	237.6	242.2	244.3	1.9	1.8	1.7	11.7	11.4	11.0
Memphis	404.9	413.3	412.8	.1	.1	.1	18.8	19.3	19.5
Nashville	446.8	456.1	456.4	.8	.9	.9	27.1	30.4	31.3
Texas									
Abilene	6,568.7	8,504.4	8,505.4	201.3	189.9	180.9	418.1	366.0	365.8
Amarillo	50.2	50.1	49.7	2.4	2.2	2.2	2.5	2.3	2.3
Amarillo	78.2	77.6	77.2	1.6	1.3	1.3	4.1	3.9	3.7
Austin	356.2	361.1	352.4	1.0	.9	.9	23.5	19.7	19.4
Beaumont—Port Arthur	129.6	127.4	127.0	1.7	1.6	1.6	7.1	7.2	7.2
Brazoria	58.0	57.1	57.0	1.6	1.3	1.3	6.0	5.9	5.8
Brownsville—Harlingen	65.5	65.7	65.7	.1	.1	.1	2.7	2.7	2.6
Bryan—College Station	48.6	48.1	48.3	.8	.8	.8	2.3	2.0	1.9
Corpus Christi	129.9	128.0	127.0	6.7	5.7	5.7	8.3	7.6	7.4
Dallas	1,344.8	1,310.2	1,305.2	21.3	19.1	19.2	83.8	64.5	64.3
El Paso	183.3	165.3	164.9	.2	.1	.1	10.1	9.5	9.6
Ft. Worth—Arlington	511.4	514.3	512.1	3.7	3.4	3.4	31.1	30.4	30.5
Galveston—Texas City	72.4	89.2	70.3	.5	.4	.4	4.2	3.3	3.2
Houston	1,411.3	1,373.0	1,373.6	71.5	62.4	62.5	93.7	83.0	82.5
Killeen—Temple	69.0	69.2	69.3	.1	.1	.1	4.0	3.7	3.7
Laredo	34.7	35.0	35.1	1.7	2.1	2.1	1.3	1.3	1.4
Longview—Marshall	65.6	64.5	63.6	3.7	3.6	3.6	3.3	3.0	3.0
Lubbock	90.6	89.8	88.8	.3	.3	.3	4.3	2.9	2.8
McAllen—Edinburg—Mission	88.8	88.1	87.4	1.1	1.0	1.0	4.6	4.4	4.4
Midland	45.1	43.6	43.9	9.4	8.3	8.5	1.7	1.6	1.6
Odessa	45.3	43.8	44.3	6.4	6.2	6.4	2.9	2.3	2.4
San Angelo	37.0	36.9	36.5	.6	.5	.6	2.0	1.9	1.9
San Antonio	495.6	497.5	497.0	2.7	2.6	2.6	36.5	31.6	31.2
Sherman—Denison	38.1	36.3	37.9	.2	.1	.1	1.9	1.8	1.8
Texarkana	45.0	44.8	45.0	.1	.1	.1	2.1	1.5	1.4
Tyler	61.8	60.6	60.7	2.0	2.0	2.0	3.1	2.7	2.7
Victoria	28.4	28.0	27.8	1.9	1.8	1.7	2.0	2.0	2.1
Waco	77.4	78.5	77.7	.2	.1	.1	4.0	3.9	3.9
Wichita Falls	50.7	50.3	50.4	2.1	2.0	2.0	2.2	2.0	2.0
Utah									
Provo—Orem	637.1	642.0	645.0	7.3	8.4	8.3	35.0	28.6	30.4
Salt Lake City—Ogden	71.2	72.0	72.3	(¹)	(¹)	(¹)	3.0	2.6	2.7
Salt Lake City—Ogden	446.1	449.2	451.2	1.6	2.7	2.7	25.1	20.6	21.9
Vermont									
Barre—Montpelier	234.3	235.8	238.8	.6	.5	.8	16.3	14.7	15.3
Burlington	31.4	32.5	32.9	.2	.4	.4	2.2	2.0	2.2
Burlington	71.2	73.6	73.7	(¹)	(¹)	(¹)	4.3	3.9	4.2

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Pennsylvania—Continued									
Reading	48.2	48.1	48.1	8.4	8.7	6.8	31.4	32.0	32.3
Scranton-Wilkes-Barre	73.8	71.4	72.2	14.7	15.2	15.3	63.8	63.9	64.3
Sharon	9.7	9.2	9.4	1.9	1.8	1.8	10.7	11.3	11.3
State College	7.4	7.3	7.2	1.2	1.3	1.3	9.2	9.5	9.5
Williamsport	15.5	16.2	16.6	1.7	1.9	1.8	10.5	10.9	11.0
York	57.8	57.1	57.2	8.9	7.3	7.1	39.5	39.7	39.8
Rhode Island									
Pawtucket-Woonsocket-Attleboro	119.9	120.0	120.4	14.9	14.9	15.1	100.6	100.1	101.7
Providence	55.5	56.1	56.1	3.5	3.7	3.7	31.4	31.4	31.8
Providence	75.3	75.2	75.4	11.2	11.6	11.6	67.7	69.7	70.8
South Carolina									
Charleston	365.4	365.3	367.3	56.2	57.6	58.1	295.3	306.4	310.8
Columbia	19.9	20.9	21.1	9.3	9.5	9.6	44.8	46.7	46.9
Columbia	28.4	28.9	29.7	9.9	10.4	10.4	47.7	46.6	46.5
Greenville-Spartanburg	99.1	98.6	99.4	10.8	11.2	11.2	66.3	69.5	69.5
South Dakota									
Rapid City	28.3	27.0	28.0	12.2	12.6	12.3	67.6	67.3	68.5
Rapid City	3.1	3.1	3.2	1.7	1.9	1.8	10.2	10.2	10.6
Sioux Falls	8.5	8.6	7.3	4.5	4.8	4.7	16.7	17.0	17.0
Tennessee									
Chattanooga	490.5	495.8	498.0	95.6	98.8	97.7	451.0	475.4	479.0
Chattanooga	44.2	43.1	42.7	8.7	8.6	8.6	42.2	41.7	42.9
Johnson City-Kingsport-Bristol	52.1	51.7	52.3	6.3	6.3	6.4	33.5	34.0	34.2
Knoxville	48.2	50.5	50.7	8.7	9.2	9.3	60.7	59.0	60.3
Memphis	52.4	52.5	52.0	36.8	37.4	37.6	112.5	112.1	112.3
Nashville	89.2	87.9	88.9	21.6	22.1	22.2	108.8	108.9	110.8
Texas									
Arlene	959.8	948.8	952.0	370.7	377.3	379.0	1,688.1	1,656.7	1,659.5
Arlene	4.9	4.8	4.8	2.8	2.5	2.6	14.0	14.2	14.1
Amarillo	10.0	9.7	10.0	6.0	5.5	5.5	23.0	22.9	22.8
Austin	41.0	39.3	39.2	11.1	11.2	11.1	81.7	80.2	80.3
Beaumont-Port Arthur	25.3	24.3	24.4	9.8	9.5	9.4	32.6	31.3	31.3
Brazoria	15.7	14.9	15.0	2.3	2.2	2.2	11.4	11.2	11.2
Brownsville-Harlingen	9.5	9.6	9.6	3.1	3.0	3.0	18.1	17.7	17.7
Bryan-College Station	3.2	2.9	3.0	1.6	1.5	1.6	11.4	10.9	10.8
Corpus Christi	12.2	11.7	11.7	7.2	7.0	7.0	34.3	34.2	34.0
Dallas	227.7	223.1	223.8	86.5	86.5	87.3	359.8	351.1	349.8
El Paso	35.8	34.7	35.1	10.0	9.8	9.9	45.3	45.3	45.3
Ft. Worth-Arlington	112.6	113.1	110.8	25.5	27.4	27.8	137.9	133.8	133.8
Galveston-Texas City	9.4	8.4	8.9	4.8	4.8	4.5	14.3	13.8	14.3
Houston	153.8	147.9	148.3	95.2	91.5	91.4	362.3	348.9	349.5
Killeen-Temple	8.8	8.8	8.7	2.9	2.7	2.6	16.4	16.3	16.3
Laredo	1.7	1.9	2.0	4.0	3.9	3.9	10.5	9.8	9.7
Longview-Marshall	15.1	14.9	15.0	3.1	3.1	3.1	17.8	17.0	16.5
Lubbock	7.4	7.3	7.5	4.5	4.4	4.8	27.9	27.6	27.4
McAllen-Edinburg-Mission	12.5	12.8	12.5	2.8	2.9	2.9	25.2	25.8	25.8
Midland	3.2	3.0	3.0	2.3	2.2	2.2	10.8	10.6	10.8
Odessa	4.0	3.7	3.7	2.1	2.1	2.1	13.4	12.9	13.1
San Angelo	5.7	5.8	5.7	3.3	3.1	3.1	9.4	9.5	9.3
San Antonio	49.0	46.4	46.5	18.5	17.9	18.0	128.7	130.9	131.3
Sherman-Denison	11.7	11.1	11.3	2.0	2.1	2.1	8.8	8.8	8.8
Texarkana	7.2	7.2	7.2	1.8	1.7	1.7	10.9	10.9	11.3
Tyler	11.6	10.8	10.8	2.9	2.7	2.7	18.4	16.4	16.4
Victoria	3.1	2.9	3.1	1.5	1.5	1.5	8.2	7.9	7.7
Waco	15.5	15.0	15.1	3.5	3.3	3.4	18.7	19.2	19.2
Wichita Falls	8.3	8.2	8.3	2.7	2.6	2.6	12.2	12.5	12.5
Utah									
Provo-Orem	93.2	92.9	93.4	37.4	37.2	37.3	152.3	155.2	156.8
Provo-Orem	11.7	10.2	10.1	2.4	2.6	2.7	15.3	16.1	16.1
Salt Lake City-Ogden	62.0	61.6	61.8	28.8	28.8	28.6	111.8	114.2	115.1
Vermont									
Barre-Montpelier	49.7	49.0	49.5	9.9	10.2	10.4	52.7	54.8	54.8
Barre-Montpelier	4.3	4.4	4.8	.8	.9	.9	8.8	8.9	8.9
Burlington	16.8	16.6	16.7	3.1	3.2	3.2	15.9	16.6	16.8

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Pennsylvania—Continued									
Reading	7.2	7.8	8.0	29.0	29.9	30.2	16.1	17.3	16.7
Scranton—Wilkes-Barre	12.1	12.8	12.9	87.7	88.6	89.2	39.9	40.9	40.6
Sharon	1.4	1.3	1.3	10.4	11.3	10.6	5.3	5.4	5.3
State College	1.6	1.7	1.7	9.0	9.4	9.6	17.4	21.5	18.2
Williamsport	2.2	2.3	2.3	9.1	9.5	9.6	6.5	6.7	6.9
York	4.9	5.1	5.3	29.1	31.5	31.4	17.7	18.4	17.4
Rhode Island									
Pawtucket—Woonsocket—Attleboro	3.8	3.7	3.9	23.7	24.4	24.1	9.7	10.0	9.7
Providence	21.2	21.6	21.6	77.7	81.4	79.8	43.5	43.8	43.5
South Carolina									
Charleston	8.6	8.8	8.8	36.3	37.9	38.0	49.2	49.9	48.8
Columbia	17.2	17.6	17.9	39.5	40.3	39.8	58.9	60.7	59.4
Greenville—Spartanburg	11.5	11.6	11.7	48.2	49.7	50.1	39.9	40.8	40.5
South Dakota									
Rapid City	1.7	1.7	1.7	8.4	8.2	8.4	6.5	6.9	6.7
Sioux Falls	8.1	5.8	5.9	17.4	17.9	18.0	8.0	7.8	8.3
Tennessee									
Chattanooga	11.1	12.1	12.2	35.5	35.2	34.2	31.1	33.4	30.6
Johnson City—Kingsport—Bristol	4.8	4.9	4.9	26.0	26.8	26.9	23.3	26.1	24.6
Knoxville	8.5	8.5	8.7	50.1	50.8	51.7	47.9	51.0	50.9
Memphis	23.0	23.4	23.5	94.8	96.9	99.5	67.7	69.6	68.3
Nashville	30.7	30.3	30.3	105.5	106.7	106.4	63.0	66.9	63.6
Texas									
Abiene	2.8	2.8	2.6	13.1	13.1	12.8	8.1	8.4	8.3
Amarillo	4.4	4.3	4.4	18.2	16.5	16.8	12.9	13.5	12.7
Austin	25.9	25.3	25.3	83.1	84.2	83.9	88.9	100.3	92.3
Beaumont—Port Arthur	5.7	5.4	5.4	26.0	28.1	28.3	19.4	20.0	19.4
Brazoria	2.2	2.0	2.1	7.6	8.0	8.1	11.2	11.6	11.3
Brownsville—Harlingen	3.5	3.4	3.4	13.7	13.8	14.5	14.8	15.4	14.8
Bryan—College Station	1.8	1.7	1.7	8.0	7.9	7.8	17.5	20.4	18.7
Corpus Christi	7.0	6.7	6.8	26.7	27.5	27.0	27.5	27.8	27.4
Dallas	134.4	130.8	130.6	290.5	285.4	286.0	141.0	149.7	144.4
El Paso	9.8	10.0	9.8	34.8	35.8	36.3	37.5	40.1	38.8
Ft. Worth—Arlington	28.7	26.8	26.9	111.0	113.3	114.8	60.9	84.3	82.1
Galveston—Texas City	4.6	4.3	4.3	13.6	13.5	13.7	21.1	20.9	21.0
Houston	106.0	100.4	99.6	340.7	347.9	350.9	168.1	191.0	189.1
Killeen—Temple	3.2	3.0	3.0	13.7	14.4	14.6	19.9	20.2	20.3
Laredo	1.6	1.6	1.6	5.9	6.0	6.0	8.0	8.4	8.4
Longview—Marshall	3.4	3.1	3.1	11.2	11.4	11.2	6.2	6.4	6.3
Lubbock	5.6	5.4	5.4	20.5	20.3	20.9	20.1	21.6	19.9
McAllen—Edinburg—Mission	4.0	3.8	3.8	13.7	13.6	13.7	22.9	24.0	23.3
Midland	2.9	2.8	2.8	6.6	6.7	6.8	6.0	6.4	6.2
Odessa	1.7	1.6	1.6	7.4	7.3	7.4	7.4	7.7	7.6
San Angelo	1.8	1.8	1.8	7.8	7.8	7.6	6.4	6.5	6.5
San Antonio	36.7	39.5	39.5	115.0	118.2	118.4	106.5	110.4	109.5
Sherman—Denison	1.8	1.5	1.5	7.1	7.7	7.3	5.0	5.2	5.0
Texarkana	1.9	1.9	1.9	9.0	9.0	9.2	12.0	12.5	12.2
Tyler	3.9	3.7	3.7	13.3	13.4	13.5	8.6	8.9	8.9
Victoria	1.8	1.5	1.5	5.9	5.8	5.8	4.2	4.6	4.4
Waco	4.9	4.9	4.8	16.4	19.8	18.8	12.2	12.5	12.4
Wichita Falls	2.5	2.4	2.4	11.1	11.1	11.1	9.6	9.5	9.5
Utah									
Provo—Orem	2.3	2.4	2.5	23.0	23.8	24.1	13.4	14.1	14.0
Salt Lake City—Ogden	27.6	27.9	28.1	95.3	97.0	98.6	94.2	96.5	94.3
Vermont									
Barre—Montpelier	2.8	2.9	2.9	6.5	6.9	6.9	8.0	8.1	8.1
Burlington	3.2	3.4	3.5	17.5	18.3	18.7	10.4	11.8	10.8

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Total			Mining			Construction		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Virginia	2,585.0	2,631.4	2,656.0	16.8	15.6	15.6	174.4	173.7	177.4
Bristol	30.3	31.1	31.4	.1	.1	.1	.9	.8	.8
Charlottesville	64.6	64.3	64.8	.1	.1	.1	3.6	3.7	3.9
Danville	39.0	39.1	39.4	.1	.1	.1	1.5	1.2	1.3
Lynchburg	70.1	71.5	71.6	.1	.1	.1	3.2	3.2	3.3
Norfolk-Virginia Beach-Newport News	598.8	544.8	553.6	.1	.1	.1	38.9	36.5	37.4
Northern Virginia	661.2	878.9	687.6	.5	.4	.4	49.3	47.3	49.9
Richmond-Petersburg	417.3	426.9	427.4	.4	.4	.4	26.1	26.8	27.1
Roanoke	118.5	121.1	123.5	.2	.1	.1	7.1	7.1	7.3
Washington	1,790.1	1,831.0	1,849.0	3.0	3.0	3.0	88.1	89.5	92.9
Seattle	692.8	917.5	925.5	.6	.6	.6	46.1	44.5	45.6
West Virginia	600.5	603.4	603.8	40.7	36.4	36.4	24.2	25.3	26.3
Charleston	108.4	108.3	108.7	2.5	2.4	2.4	4.7	5.1	5.3
Huntington-Ashland	100.3	102.0	101.7	1.1	4.0	1.0	3.8	3.9	4.0
Parkersburg-Marietta	58.8	59.9	60.5	.7	.8	.8	2.9	3.0	3.1
Wheeling	57.1	57.7	58.0	2.4	2.3	2.4	1.8	1.7	1.8
Wisconsin	2,042.2	2,058.5	2,069.3	2.3	2.3	2.4	88.7	65.9	68.2
Appleton-Oshkosh-Neenah	141.1	143.0	145.1	(¹)	(¹)	(¹)	6.0	5.7	5.8
Eau Claire	53.3	56.4	56.2	(¹)	(¹)	(¹)	1.8	1.4	1.4
Green Bay	92.0	92.1	92.9	(¹)	(¹)	(¹)	3.2	2.7	2.8
Janesville-Beloit	54.4	53.5	54.0	(¹)	(¹)	(¹)	1.3	1.2	1.1
Kenosha	37.3	39.9	39.8	(¹)	(¹)	(¹)	.9	1.0	1.0
La Crosse	47.7	50.1	49.6	(¹)	(¹)	(¹)	1.2	1.1	1.3
Madison	190.4	196.8	196.3	(¹)	(¹)	(¹)	6.4	5.8	5.9
Milwaukee	681.5	686.9	694.8	(¹)	(¹)	(¹)	20.5	20.6	20.6
Racine	68.8	68.5	69.3	(¹)	(¹)	(¹)	2.1	2.1	2.4
Sheboygan	44.8	45.5	46.9	(¹)	(¹)	(¹)	1.3	1.1	1.1
Wausau	45.1	46.3	46.9	(¹)	(¹)	(¹)	1.6	1.3	1.4
Wyoming	204.1	192.7	196.6	19.4	17.8	18.6	18.8	14.6	15.7
Puerto Rico	738.4	735.2	775.1	.7	.8	.8	29.3	33.7	34.4
Caguas	44.7	44.6	46.2	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Mayaguez	52.8	52.2	52.2	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Ponce	45.6	46.2	46.1	.1	.1	.1	2.6	3.4	3.5
San Juan	452.0	452.4	476.9	.4	.5	.5	23.8	25.9	26.3
Virgin Islands	37.0	37.6	37.5	(¹)	(¹)	(¹)	2.3	1.6	1.7

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	June 1986	May 1987	June 1987 ^a	June 1986	May 1987	June 1987 ^a	June 1986	May 1987	June 1987 ^a
Virginia	423.3	422.0	425.3	134.1	141.1	141.3	583.2	601.7	606.9
Bristol	9.4	9.9	9.9	1.1	1.2	1.2	8.0	8.4	8.5
Charlottesville	8.6	8.5	8.5	2.1	2.2	2.2	12.0	11.9	12.0
Darville	16.3	16.8	16.8	1.0	1.0	1.0	8.1	8.1	8.1
Lynchburg	23.7	24.2	24.2	3.0	3.0	3.0	12.9	13.4	13.3
Norfolk-Virginia Beach-Newport News	69.7	65.8	66.8	25.9	25.9	25.5	130.3	137.6	140.8
Northern Virginia	34.8	33.8	34.1	42.4	48.2	48.9	154.4	157.7	158.7
Richmond-Petersburg	61.1	62.7	63.3	21.7	22.4	22.5	101.5	101.8	101.6
Roanoke	20.7	20.8	20.7	9.1	8.8	8.9	31.4	33.3	35.0
Washington	305.5	310.2	314.1	96.3	97.8	99.6	440.4	451.6	461.7
Seattle	171.2	178.8	180.8	58.0	58.0	59.0	220.0	227.7	230.7
West Virginia	67.8	66.7	67.3	36.7	35.9	36.3	138.2	136.8	139.7
Charleston	12.4	12.0	11.9	8.2	8.3	8.3	28.5	28.4	28.5
Huntington-Ashland	19.3	19.4	19.6	7.4	7.4	7.4	26.0	25.9	25.8
Parkersburg-Marietta	14.5	14.3	14.8	2.0	2.0	2.0	14.2	14.3	14.3
Wheeling	6.9	7.1	7.0	3.1	2.9	3.0	15.4	15.9	16.2
Wisconsin	520.0	513.5	526.2	93.2	94.1	94.5	484.3	491.0	499.9
Appleton-Oshkosh-Neenah	49.8	49.1	51.0	5.3	5.5	5.5	29.8	30.3	30.2
Eau Claire	10.4	10.2	10.3	2.7	3.2	3.2	14.9	18.7	16.6
Green Bay	25.3	23.7	24.1	8.5	8.7	8.8	23.7	24.3	24.5
Janesville-Beloit	17.8	18.7	17.0	2.0	1.9	1.9	13.7	13.8	14.1
Kenosha	11.1	12.8	12.8	1.4	1.5	1.5	8.8	8.6	8.7
La Crosse	10.3	10.1	10.1	2.4	2.3	2.3	13.2	14.3	14.2
Madison	21.6	21.9	22.3	8.4	8.7	8.7	41.0	43.4	43.3
Milwaukee	169.2	165.5	166.3	34.7	35.3	35.2	156.6	160.9	163.5
Racine	24.8	23.8	23.9	2.3	2.4	2.4	18.1	16.5	16.7
Sheboygan	18.9	19.0	19.9	1.4	1.5	1.5	6.6	6.9	9.0
Wausau	12.2	12.6	13.5	2.8	2.9	2.9	11.4	11.8	11.9
Wyoming	8.0	7.8	8.0	14.3	13.9	14.1	47.1	44.0	45.6
Puerto Rico	148.0	150.9	147.1	16.2	14.8	14.8	124.7	129.4	127.5
Caguas	14.3	15.7	15.3	(¹)	(¹)	(¹)	8.2	8.2	8.0
Mayaguez	20.4	20.0	17.8	(¹)	(¹)	(¹)	6.9	7.0	6.9
Ponce	8.7	8.5	7.5	(¹)	(¹)	(¹)	7.3	7.8	7.8
San Juan	64.6	64.8	64.2	12.5	10.7	10.7	85.9	89.3	88.5
Virgin Islands	1.7	1.9	1.9	2.4	2.5	2.5	8.4	8.7	8.7

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Virginia	132.9	137.5	139.7	590.8	605.0	613.5	529.4	534.8	538.3
Bristol .....	.9	.9	.9	4.6	4.5	4.5	5.4	5.4	5.5
Charlottesville	3.1	3.2	3.2	11.3	11.3	11.5	23.8	23.6	23.5
Danville	1.2	1.1	1.1	5.7	5.7	5.7	5.3	5.3	5.4
Lynchburg	3.3	3.4	3.4	14.0	14.7	14.7	9.8	9.6	9.6
Norfolk-Virginia Beach-Newport News	24.8	25.0	25.5	123.1	126.9	130.2	126.0	127.0	127.7
Northern Virginia	40.6	43.0	43.6	201.3	206.7	206.4	198.0	141.8	143.6
Richmond-Petersburg	33.2	34.7	35.1	85.5	88.8	89.1	87.9	89.4	88.4
Roanoke	6.1	6.2	6.3	27.0	27.2	27.3	15.0	15.7	15.9
Washington	106.2	107.5	107.9	394.8	410.7	410.3	356.0	360.7	359.5
Seattle	66.7	67.0	67.4	201.2	209.7	210.5	129.0	131.4	130.9
West Virginia	24.1	24.4	24.6	121.2	126.5	126.0	127.8	129.4	127.2
Charleston	6.0	6.0	6.1	24.8	24.9	25.0	21.3	21.2	21.2
Huntington-Ashland	4.3	4.4	4.4	20.0	20.8	20.7	18.4	19.4	18.8
Parkersburg-Marietta	2.2	2.1	2.2	12.6	13.3	13.4	9.3	10.1	10.1
Wheeling	2.8	2.6	2.7	15.4	15.5	15.3	9.5	9.7	9.6
Wisconsin	108.8	111.3	112.7	436.8	446.5	452.3	328.2	333.9	333.1
Appleton-Oshkosh-Neenah	7.0	7.2	7.3	26.2	27.7	28.1	17.0	17.3	17.2
Eau Claire	1.9	1.9	1.9	11.6	12.3	12.5	10.1	10.7	10.2
Green Bay	3.2	3.3	3.4	19.3	20.4	20.4	10.7	10.9	10.8
Janesville-Beloit	1.7	1.7	1.7	11.1	11.4	11.5	6.7	6.9	6.7
Kenosha	1.1	1.1	1.2	6.1	6.5	6.1	4.2	4.4	4.5
La Crosse	1.5	1.5	1.5	12.7	13.5	13.5	6.5	7.4	6.8
Madison	17.1	17.5	17.7	40.2	41.7	41.7	57.5	59.6	58.6
Milwaukee	46.8	47.8	48.5	169.9	174.8	176.8	83.6	81.6	83.5
Racine	2.2	2.2	2.2	13.1	13.2	13.1	8.4	8.2	8.6
Sheboygan	2.1	2.0	2.0	7.2	7.5	7.8	5.4	5.5	5.6
Wausau	3.4	3.4	3.4	6.0	6.1	7.9	5.7	6.1	5.8
Wyoming	8.3	7.9	7.9	33.7	32.8	35.5	54.3	53.9	53.2
Puerto Rico	32.7	33.4	33.6	96.0	103.6	102.8	290.9	268.3	314.1
Caguas	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	16.9	14.9	17.1
Mayaguez	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	17.7	16.4	18.9
Ponce	(¹)	(¹)	(¹)	7.6	7.7	7.7	16.4	15.6	18.5
San Juan	26.6	27.2	27.4	70.4	74.7	73.7	167.8	159.6	185.7
Virgin Islands	1.5	1.6	1.6	7.7	8.7	6.6	13.0	12.6	12.5

¹ Not available.
² Combined with construction.
^P = preliminary.

NOTE: Area definitions are published annually in the May issue of this publication. All State and area data have been adjusted to March 1986 benchmarks.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

C-1. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by major industry, 1964 to date

Year and month	Total private ¹			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986	34.8	8.76	304.85	42.2	12.44	524.97	37.4	12.47	466.38
Monthly data, not seasonally adjusted									
1986:									
July	34.9	\$8.70	\$303.63	41.4	\$12.49	\$517.09	38.2	\$12.34	\$471.39
August	35.1	8.70	305.37	42.3	12.51	529.17	38.3	12.44	476.45
September	34.8	8.82	306.94	42.1	12.52	527.09	38.5	12.59	484.72
October	34.7	8.82	306.05	42.1	12.50	526.25	37.9	12.68	480.57
November	34.7	8.88	308.14	41.4	12.57	520.40	36.5	12.66	462.09
December	34.8	8.86	308.33	42.4	12.63	535.51	36.8	12.77	469.94
1987:									
January	34.4	8.90	306.16	42.5	12.66	538.05	37.2	12.58	467.98
February	34.5	8.92	307.74	42.0	12.56	527.52	36.8	12.51	460.37
March	34.6	8.92	308.63	41.8	12.51	522.92	37.4	12.59	470.87
April	34.6	8.91	308.29	41.8	12.43	519.57	37.4	12.55	469.37
May	34.8	8.93	310.76	42.4	12.42	526.61	38.5	12.60	485.10
June ^a	35.0	8.92	312.20	42.4	12.44	527.46	38.1	12.62	480.82
July ^a	35.0	8.91	311.85	42.7	12.34	526.92	38.5	12.59	484.72

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

C-1. Average hours and earnings of production or nonsupervisory workers' on private nonagricultural payrolls by major industry, 1964 to date—Continued

Year and month	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
	Annual averages									
1964	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
1965	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.61	106.49
1966	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.11
1967	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.88	116.06
1968	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.05	122.31
1969	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.85
1970	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.44	137.26
1971	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.5	3.65	144.18
1972	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.69
1973	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.3	4.08	160.34
1974	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.39	170.33
1975	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.7	4.73	183.05
1976	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.03	194.66
1977	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	209.13
1978	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	228.14
1979	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.93
1980	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.5	6.96	267.96
1981	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.56	291.06
1982	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.09	309.85
1983	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.55	329.18
1984	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.89	342.27
1985	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.16	351.74
1986	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.4	9.35	359.04
	Monthly data, not seasonally adjusted									
1986:										
July	40.2	\$9.74	\$9.35	\$391.55	39.4	\$11.67	\$459.80	38.5	\$9.30	\$358.05
August	40.7	9.68	9.27	393.98	39.4	11.67	459.80	38.5	9.32	358.82
September	41.0	9.73	9.31	398.93	39.2	11.77	461.38	38.3	9.37	358.87
October	40.7	9.72	9.32	395.60	39.1	11.77	460.21	38.4	9.36	359.42
November	41.0	9.78	9.37	400.98	39.3	11.90	467.67	38.4	9.47	363.65
December	41.5	9.85	9.42	408.78	39.1	11.90	465.29	38.4	9.47	363.65
1987:										
January	40.8	9.84	9.44	401.47	38.5	11.89	457.77	38.1	9.49	361.57
February	40.8	9.84	9.44	401.47	39.0	11.93	465.27	37.9	9.55	361.95
March	40.9	9.85	9.44	402.87	38.9	11.90	462.91	37.9	9.53	361.19
April	40.4	9.87	9.48	398.75	38.8	11.94	463.27	38.1	9.53	363.09
May	40.9	9.87	9.45	403.68	39.0	11.95	466.05	38.3	9.57	366.53
June ^p	41.1	9.88	9.45	406.07	39.3	11.95	469.64	38.4	9.56	367.10
July ^p	40.6	9.88	9.46	401.13	39.3	11.99	471.21	38.2	9.57	365.57

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

C-1. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by major industry, 1964 to date—Continued

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
1965	36.6	1.82	66.61	37.2	2.39	88.91	35.9	2.05	73.60
1966	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
1967	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
1968	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
1969	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
1970	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
1971	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
1972	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
1973	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
1974	32.7	3.14	102.68	36.5	3.77	137.61	33.6	3.75	126.00
1975	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
1976	32.1	3.57	114.60	36.4	4.27	155.43	33.3	4.31	143.52
1977	31.6	3.85	121.66	36.4	4.54	165.26	33.0	4.65	153.45
1978	31.0	4.20	130.20	36.4	4.89	178.00	32.8	4.99	163.67
1979	30.6	4.53	138.62	36.2	5.27	190.77	32.7	5.36	175.27
1980	30.2	4.88	147.38	36.2	5.79	209.60	32.6	5.85	190.71
1981	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
1982	29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
1983	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
1984	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
1985	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
1986	29.2	6.03	176.08	36.4	8.35	303.94	32.5	8.16	265.20
Monthly data, not seasonally adjusted									
1986:									
July	29.9	\$5.98	\$178.80	36.3	\$8.30	\$301.29	32.8	\$8.04	\$263.71
August	29.9	5.97	178.50	36.5	8.34	304.41	32.8	8.04	263.71
September	29.1	6.06	176.35	36.2	8.39	303.72	32.4	8.19	265.36
October	29.0	6.06	175.74	36.4	8.39	305.40	32.4	8.23	266.65
November	29.0	6.08	176.32	36.5	8.57	312.81	32.4	8.33	269.89
December	29.4	6.07	178.46	36.5	8.48	309.52	32.4	8.32	269.57
1987:									
January	28.3	6.09	172.35	36.3	8.60	312.18	32.2	8.37	269.51
February	28.7	6.09	174.78	36.4	8.75	318.50	32.4	8.43	273.13
March	28.9	6.08	175.71	36.3	8.72	316.54	32.4	8.41	272.48
April	29.2	6.09	177.83	36.3	8.71	316.17	32.3	8.40	271.32
May	29.3	6.09	178.44	36.3	8.72	316.54	32.4	8.38	271.51
June ^p	29.6	6.07	179.67	36.4	8.65	314.86	32.6	8.35	272.21
July ^p	30.0	6.07	182.10	36.0	8.63	310.68	32.7	8.34	272.72

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

^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Total private		34.9	34.9	34.8	35.0	35.0					
Mining		41.9	41.4	42.4	42.4	42.7					
Metal mining		41.1	40.5	41.7	41.9						
Iron ores	101	40.9	40.6	41.1	41.4						
Copper ores	102	42.0	40.5	42.4	42.3						
Coal mining	11,12	40.4		41.6	42.1						
Bituminous coal and lignite mining	12	40.4		41.7	42.2						
Oil and gas extraction	13	41.7	42.2	41.6	41.2						
Crude petroleum, natural gas, and natural gas liquids	131,2	42.1	42.8	40.9	41.1						
Oil and gas field services	138	41.5	41.9	42.0	41.3						
Nonmetallic minerals, except fuels	14	45.1	45.3	46.4	46.5						
Crushed and broken stone	142	46.9	47.6	48.0	48.1						
Construction		37.8	38.2	38.5	38.1	38.5					
General building contractors	15	37.3	37.4	38.0	37.7						
Residential building construction	152	36.7	36.7	37.8	37.3						
Operative builders	153	39.5	39.3	38.8	38.9						
Nonresidential building construction	154	37.9	38.1	38.3	38.0						
Heavy construction contractors	16	41.5	42.5	42.7	41.5						
Highway and street construction	161	42.3	43.2	43.7	42.5						
Heavy construction, except highway	162	41.1	42.1	42.1	40.9						
Special trade contractors	17	36.8	37.2	37.5	37.3						
Plumbing, heating, and air conditioning	171	38.2	38.6	38.4	38.3						
Painting, paper hanging, and decorating	172	35.2	36.1	36.3	35.8						
Electrical work	173	38.6	39.2	38.6	39.0						
Masonry, stonework, and plastering	174	35.0	35.4	35.3	35.6						
Carpentering and flooring	175	34.5	34.1	35.7	35.6						
Roofing and sheet metal work	176	34.1	34.9	34.7	34.3						
Manufacturing		40.8	40.2	40.9	41.1	40.6	3.4	3.3	3.6	3.7	3.6
Durable goods		41.4	40.6	41.5	41.7	41.0	3.5	3.3	3.7	3.8	3.6
Lumber and wood products	24	40.8	40.2	41.3	41.2	40.2	3.8	3.6	4.0	4.1	
Logging camps and logging contractors	241	41.2	40.6	40.2	40.8	-	4.1	3.7	4.3	4.2	
Sawmills and planing mills	242	41.6	41.1	42.5	42.0		4.5	4.1	4.7	4.7	
Sawmills and planing mills, general	2421	41.8	41.3	42.7	42.0		4.7	4.4	4.9	4.9	
Hardwood dimension and flooring	2426	41.0	40.3	42.0	42.2		3.6	2.8	4.2	4.2	
Millwork, plywood, and structural members	243	41.1	40.2	41.8	41.7		3.9	3.7	4.0	4.0	
Millwork	2431	41.2	40.5	42.4	42.4		3.6	3.5	3.8	4.1	
Wood kitchen cabinets	2434	40.6	39.8	40.2	40.8		3.5	3.4	3.3	3.5	
Hardwood veneer and plywood	2435	40.6	40.0	41.3	41.0		3.2	3.2	3.9	3.8	
Softwood veneer and plywood	2436	41.6	40.2	43.4	42.1		4.7	4.4	4.9	4.7	
Wood containers	244	38.5	37.9	38.4	39.1		2.5	2.3	2.9	3.1	
Wood buildings and mobile homes	245	39.3	39.5	39.6	39.6		2.6	3.0	2.9	3.4	
Mobile homes	2451	39.3	39.8	38.8	39.0		2.2	2.7	2.3	3.1	
Miscellaneous wood products	249	40.3	39.2	40.5	40.7		3.3	3.1	3.2	3.3	
Furniture and fixtures	25	39.8	39.0	39.5	40.0	39.3	2.5	2.3	2.5	2.7	
Household furniture	251	38.9	37.9	39.1	39.5	-	2.1	1.7	2.5	2.5	
Wood household furniture	2511	39.3	38.6	39.7	40.1		2.3	1.9	2.5	2.5	
Upholstered household furniture	2512	38.1	36.7	38.1	38.5		1.5	1.1	1.8	2.1	
Metal household furniture	2514	39.4	38.3	41.2	41.1		2.6	2.4	4.1	3.5	
Mattresses and bedsprings	2515	39.1	38.3	37.8	38.7		2.2	2.4	2.6	2.8	
Office furniture	252	41.4	40.6	40.2	40.7		3.1	2.8	2.8	2.8	
Public building and related furniture	253	40.1	39.1	39.9	40.4		3.2	3.2	2.6	3.5	
Partitions and fixtures	254	41.7	41.3	40.4	41.1		3.6	3.7	2.9	3.5	
Miscellaneous furniture and fixtures	259	40.4	40.3	39.8	40.3		2.5	2.2	2.2	2.3	
Stone, clay, and glass products	32	42.6	42.4	42.8	42.6	42.6	5.1	5.1	5.3	5.3	
Flat glass	321	43.9	45.9	46.3	47.2	-	6.2	7.2	7.1	6.0	
Glass and glassware, pressed or blown	322	41.5	40.9	41.4	41.4		4.6	4.7	4.6	4.8	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Total private		\$8.72	\$8.70	\$8.93	\$8.92	\$8.91	\$304.33	\$303.63	\$310.76	\$312.20	\$311.85
Mining		12.49	12.49	12.42	12.44	12.34	523.33	517.09	526.61	527.46	526.92
Metal mining	10	13.50	13.33	12.97	13.02		554.85	539.87	540.85	545.54	
Iron ores	101	14.02	13.91	14.36	14.40		573.42	564.75	590.20	596.16	
Copper ores	102	13.18	12.72	11.55	11.44		553.56	515.16	489.72	483.91	
Coal mining	11,12	15.26		15.63	15.61		616.50	583.60	650.21	657.18	
Bituminous coal and lignite mining	12	15.32		15.68	15.66		618.93	587.79	653.86	660.85	
Oil and gas extraction	13	11.70	11.71	11.45	11.46		487.89	494.16	476.32	472.15	
Crude petroleum, natural gas, and natural gas liquids	131,2	13.78	13.79	13.90	13.99		580.14	590.21	568.51	574.99	
Oil and gas field services	138	10.35	10.33	10.03	10.02	-	429.53	432.83	421.26	413.83	
Nonmetallic minerals, except fuels	14	10.38	10.41	10.58	10.68		468.14	471.57	490.91	496.62	
Crushed and broken stone	142	9.87	9.93	10.07	10.09		462.90	472.67	483.36	485.33	
Construction		12.34	12.34	12.60	12.62	12.59	466.45	471.39	485.10	480.82	484.72
General building contractors	15	11.28	11.26	11.64	11.64		420.74	421.12	442.32	438.83	
Residential building construction	152	10.71	10.65	10.95	10.96		393.06	390.86	413.91	408.81	
Operative builders	153	9.57	9.51	10.05	10.30		378.02	373.74	389.94	400.67	
Nonresidential building construction	154	12.02	12.01	12.49	12.49		455.56	457.58	478.37	474.62	
Heavy construction contractors	16	11.99	11.96	12.04	12.15		497.59	508.30	514.11	504.23	
Highway and street construction	161	11.77	11.79	11.93	12.14		497.87	509.33	521.34	515.95	
Heavy construction, except highway	162	12.12	12.06	12.11	12.15		498.13	507.73	509.83	496.94	
Special trade contractors	17	12.93	12.93	13.18	13.17		475.82	481.00	494.25	491.24	
Plumbing, heating, and air conditioning	171	13.08	13.14	13.47	13.37		499.66	507.20	517.25	512.07	
Painting, paper hanging, and decorating	172	12.33	12.33	12.49	12.40		434.02	445.11	453.39	443.92	
Electrical work	173	14.37	14.35	14.63	14.68		554.68	562.52	564.72	572.52	
Masonry, stonework, and plastering	174	13.08	13.05	13.43	13.47		457.80	461.97	474.08	479.53	
Carpentering and flooring	175	12.60	12.63	12.64	12.58		434.70	430.68	451.25	447.85	
Roofing and sheet metal work	176	11.39	11.44	11.46	11.45		388.40	399.26	397.66	392.74	
Manufacturing		9.71	9.74	9.87	9.88	9.88	396.17	391.55	403.68	406.07	401.13
Durable goods		10.26	10.26	10.40	10.43	10.41	424.76	416.56	431.60	434.93	426.81
Lumber and wood products	24	8.40	8.29	8.37	8.44	8.49	342.72	333.26	345.68	347.73	341.30
Logging camps and logging contractors	241	11.06	10.70	10.80	11.00	-	455.67	434.42	434.16	448.80	-
Sawmills and planing mills	242	8.67	8.51	8.50	8.57		360.67	349.76	361.25	359.94	
Sawmills and planing mills, general	2421	9.10	8.92	8.86	8.94		380.38	368.40	378.32	375.48	
Hardwood dimension and flooring	2426	6.55	6.51	6.79	6.79		268.55	262.35	285.18	286.54	
Millwork, plywood, and structural members	243	8.21	8.14	8.33	8.34		337.43	327.23	348.19	347.78	
Millwork	2431	8.44	8.30	8.63	8.64		347.73	336.15	365.91	366.34	
Wood kitchen cabinets	2434	7.53	7.52	7.63	7.65		305.72	299.30	306.73	312.12	
Hardwood veneer and plywood	2435	6.76	6.83	6.80	6.84		274.46	273.20	280.84	280.44	
Softwood veneer and plywood	2436	9.74	9.60	9.66	9.78		405.18	385.92	419.24	411.74	
Wood containers	244	5.90	5.92	6.12	6.12		227.15	224.37	235.01	239.29	
Wood buildings and mobile homes	245	7.60	7.58	7.86	7.93		298.68	299.41	311.26	314.03	
Mobile homes	2451	7.67	7.71	7.93	8.05		301.43	306.86	307.68	313.95	
Miscellaneous wood products	249	7.26	7.28	7.31	7.36		292.58	285.38	296.06	299.55	
Furniture and fixtures	25	7.47	7.45	7.64	7.66	7.70	297.31	290.55	301.78	306.40	302.61
Household furniture	251	6.85	6.81	7.06	7.04	-	266.47	258.10	276.05	278.08	-
Wood household furniture	2511	6.33	6.29	6.53	6.50		248.77	242.79	259.24	260.65	
Upholstered household furniture	2512	7.48	7.36	7.74	7.72		284.99	270.11	294.89	297.22	
Metal household furniture	2514	6.99	7.22	7.02	7.10		275.41	276.53	289.22	291.81	
Mattresses and bedsprings	2515	7.30	7.22	7.62	7.52		285.43	276.53	288.04	291.02	
Office furniture	252	8.45	8.31	8.68	8.67		349.83	337.39	348.94	352.87	
Public building and related furniture	253	7.86	7.92	8.12	8.11		315.19	309.67	323.99	327.64	
Partitions and fixtures	254	8.89	8.94	9.09	9.15		370.71	369.22	367.24	376.07	
Miscellaneous furniture and fixtures	259	7.84	7.79	7.93	8.12		316.74	313.94	315.61	327.24	
Stone, clay, and glass products	32	10.04	10.06	10.26	10.27	10.27	427.70	426.54	439.13	437.50	437.50
Flat glass	321	13.90	14.25	14.51	14.32	-	610.21	654.08	671.81	675.90	-
Glass and glassware, pressed or blown	322	11.00	11.04	11.35	11.41		456.50	451.54	469.89	472.37	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	42.0	40.7	41.9	41.7		5.8	5.6	5.8	5.9	
Pressed and blown glass, nec	3229	40.9	41.2	40.8	41.1		3.3	3.5	3.3	3.6	
Products of purchased glass	323	42.1	41.5	41.5	41.5		3.1	3.2	3.5	3.7	
Cement, hydraulic	324	41.0	41.2	41.3	41.8		2.8	3.2	3.3	3.5	
Structural clay products	325	41.8	41.3	41.9	41.9		4.1	4.4	4.1	4.3	
Pottery and related products	326	40.1	39.1	40.3	40.0		2.5	2.5	2.7	2.7	
Concrete, gypsum, and plaster products	327	44.7	44.6	44.9	44.2		7.2	7.2	7.3	7.0	
Concrete block and brick	3271	46.3	46.1	46.8	46.2		8.6	8.4	9.1	8.7	
Concrete products, nec	3272	43.8	44.0	43.3	43.4		6.2	6.4	5.9	6.2	
Ready-mixed concrete	3273	44.3	44.3	45.0	44.0		7.4	7.5	7.5	7.1	
Misc. nonmetallic mineral products	329	41.4	40.9	41.7	41.8		3.7	3.7	4.4	4.6	
Abrasive products	3291	41.1	41.7	41.2	43.0		2.6	2.7	3.1	4.1	
Asbestos products	3292	43.4	42.6	43.3	42.8		4.6	3.9	5.4	5.1	
Primary metal industries											
Blast furnaces and basic steel products	33	41.8	41.0	43.0	43.2	42.9	4.0	3.9	4.8	4.9	
Blast furnaces and steel mills	331	41.7	41.4	43.4	43.8	43.7	3.7	3.8	4.7	5.0	
Steel pipe and tubes	3312	41.6	41.5	43.5	43.9	-	3.6	3.9	4.7	5.0	
Iron and steel foundries	3317	41.8	40.2	43.0	43.2		3.6	3.0	4.8	5.5	
Gray iron foundries	332	41.5	39.9	42.7	43.0		4.0	3.7	5.0	5.0	
Malleable iron foundries	3321	41.5	39.3	42.3	43.1		4.5	4.0	5.3	5.4	
Steel foundries, nec	3322	38.8	39.4	40.5	42.9		2.5	2.5	3.1	5.0	
Primary nonferrous metals	3325	41.9	40.3	42.9	42.0		3.2	3.0	4.6	4.2	
Primary aluminum	333	41.4	41.2	43.6	43.5		3.4	3.7	4.6	4.7	
Nonferrous rolling and drawing	3334	40.9	41.1	45.0	44.3		3.2	3.6	5.0	4.8	
Copper rolling and drawing	335	42.4	41.4	43.3	43.2		5.1	5.0	5.4	5.6	
Aluminum sheet, plate, and foil	3351	42.4	40.7	42.8	43.3		4.7	4.8	5.5	5.5	
Nonferrous wire drawing and insulating	3353	42.5	42.1	44.2	43.6		5.9	5.6	6.7	7.1	
Nonferrous foundries	3357	42.0	40.9	42.6	42.2		5.0	4.8	4.8	4.7	
Aluminum foundries	336	41.6	40.4	41.6	42.0		3.3	3.1	3.5	3.6	
Aluminum foundries	3361	42.0	41.0	41.8	42.5		3.7	3.6	3.8	4.0	
Fabricated metal products											
Metal cans and shipping containers	34	41.3	40.5	41.4	41.7	40.9	3.4	3.2	3.7	3.8	
Metal cans	341	44.4	44.2	44.2	44.3	-	6.0	6.0	5.8	6.1	
Cutlery, hand tools, and hardware	3411	44.5	44.5	44.0	44.3		6.0	6.1	5.7	6.1	
Hand and edge tools, and hand saws and blades	342	40.8	39.8	40.9	41.1		2.5	2.5	2.9	3.0	
Hardware, nec	3423,5	40.5	39.8	41.5	41.9		2.1	2.2	2.9	3.1	
Plumbing and heating, except electric	3429	40.9	39.8	40.4	40.4		2.7	2.8	3.0	2.9	
Plumbing fittings and brass goods	343	40.2	38.9	40.7	42.0		2.4	2.1	2.9	4.0	
Heating equipment, except electric	3432	40.6	39.9	41.4	42.6		2.2	2.3	2.9	3.9	
Fabricated structural metal products	3433	38.8	37.2	39.8	40.5		1.5	1.5	2.5	3.0	
Fabricated structural metal	344	40.7	40.5	40.7	41.0		3.2	3.3	3.2	3.4	
Metal doors, sash, and trim	3441	41.7	41.6	41.8	41.5		3.8	3.8	3.7	3.6	
Fabricated plate work (boiler shops)	3442	40.6	40.5	40.2	40.8		3.4	3.5	3.2	3.6	
Sheet metal work	3443	39.7	39.7	39.7	40.0		2.6	3.0	2.9	3.1	
Architectural metal work	3444	40.1	39.8	40.5	41.2		3.7	3.6	2.9	3.6	
Screw machine products, bolts, etc	345	42.4	41.6	43.1	43.1		4.3	4.2	5.0	5.0	
Bolts, nuts, rivets, and washers	3451	40.6	40.8	40.9	41.2		3.1	3.2	3.2	3.5	
Metal forgings and stampings	3452	44.2	42.4	45.3	45.0		5.5	5.2	6.8	6.5	
Iron and steel forgings	346	42.7	41.0	42.1	42.6		4.6	3.6	4.4	4.6	
Automotive stampings	3462	41.9	41.4	41.7	41.9		3.6	3.5	3.3	4.0	
Metal stampings, nec	3465	44.8	41.9	43.1	44.0		6.1	4.3	5.5	5.3	
Metal services, nec	3469	40.6	39.8	41.0	41.1		3.1	2.6	3.5	3.8	
Plating and polishing	347	40.7	40.1	40.8	41.1		3.4	3.2	3.4	3.6	
Metal coating and allied services	3471	40.4	39.8	40.4	40.8		3.2	3.0	3.2	3.4	
Ordnance and accessories, nec	3479	41.4	40.8	41.6	41.7		3.9	3.7	3.8	4.0	
Ammunition, except for small arms, nec	348	40.3	39.2	40.9	41.3		2.2	2.2	2.9	3.0	
Misc. fabricated metal products	3483	39.0	39.4	40.0	40.0		1.9	2.0	2.3	2.4	
Valves and pipe fittings	349	40.2	39.5	41.2	41.3		2.4	2.3	3.3	3.4	
Misc. fabricated wire products	3494	39.6	38.7	41.5	41.9		2.2	2.2	3.5	3.7	
Misc. fabricated wire products	3496	40.9	39.3	41.0	41.2		2.6	2.1	3.2	3.1	
Machinery, except electrical											
Engines and turbines	35	41.7	40.7	42.0	42.3	41.7	3.4	3.1	3.7	4.0	
Turbines and turbine generator sets	351	42.7	42.1	42.3	42.5	-	3.8	3.2	4.7	4.9	
Internal combustion engines, nec	3511	40.6	38.7	39.5	39.8		4.2	3.9	3.4	3.9	
Farm and garden machinery	3519	43.5	43.5	43.2	43.4		3.7	2.9	5.1	5.2	
Farm machinery and equipment	352	40.8	40.0	41.5	41.8		2.3	2.2	3.6	3.6	
Farm machinery and equipment	3523	40.8	40.7	42.0	42.4		2.4	2.7	4.1	4.4	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	\$11.39	\$11.39	\$11.89	\$11.96		\$478.38	\$463.57	\$498.19	\$498.73	
Pressed and blown glass, nec	3229	10.53	10.62	10.73	10.77		430.88	437.54	437.78	442.65	
Products of purchased glass	323	8.76	8.81	8.94	8.87		368.80	365.62	371.01	368.11	
Cement, hydraulic	324	13.32	13.28	13.44	13.30		546.12	547.14	555.07	555.94	
Structural clay products	325	8.20	8.17	8.46	8.51		342.76	337.42	354.47	356.57	
Pottery and related products	326	8.83	8.86	8.95	8.97		354.08	346.43	360.69	358.80	
Concrete, gypsum, and plaster products	327	9.81	9.79	10.05	10.03		438.51	436.63	451.25	443.33	
Concrete block and brick	3271	8.78	8.73	8.92	8.96		406.51	402.45	417.46	413.95	
Concrete products, nec	3272	8.55	8.59	8.85	8.90		374.49	377.96	383.21	386.26	
Ready-mixed concrete	3273	10.76	10.69	10.90	10.86		476.67	473.57	490.50	477.84	
Misc. nonmetallic mineral products	329	10.23	10.22	10.34	10.44		423.52	418.00	431.18	436.39	
Abrasive products	3291	9.62	9.72	9.79	9.66		395.38	405.32	403.35	415.38	
Asbestos products	3292	10.24	10.21	10.27	10.33		444.42	434.95	444.69	442.12	
Primary metal industries	33	11.89	11.93	11.96	11.97	\$12.03	497.00	489.13	514.28	517.10	\$516.09
Blast furnaces and basic steel products	331	13.86	13.83	13.80	13.81	13.82	577.96	572.56	598.92	604.88	603.93
Blast furnaces and steel mills	3312	14.60	14.54	14.50	14.48	-	607.36	603.41	630.75	635.67	-
Steel pipe and tubes	3317	10.83	10.64	11.19	11.25		452.69	427.73	481.17	486.00	
Iron and steel foundries	332	10.55	10.48	10.75	10.71		437.83	418.15	459.03	460.53	
Gray iron foundries	3321	11.00	10.94	11.19	11.11		456.50	429.94	473.34	478.84	
Malleable iron foundries	3322	11.21	11.07	11.58	11.85		434.95	436.16	468.99	508.37	
Steel foundries, nec	3325	9.77	9.82	10.18	10.05		409.36	395.75	436.72	422.10	
Primary nonferrous metals	333	13.50	13.30	12.92	12.93		558.90	547.96	563.31	562.46	
Primary aluminum	3334	13.76	13.83	13.24	13.29		562.78	568.41	595.80	588.75	
Nonferrous rolling and drawing	335	11.04	11.16	11.39	11.41		468.10	462.02	493.19	492.91	
Copper rolling and drawing	3351	10.23	10.33	10.58	10.53		433.75	420.43	452.82	455.95	
Aluminum sheet, plate, and foil	3353	13.62	13.46	13.95	13.89		578.85	566.67	616.59	605.60	
Nonferrous wire drawing and insulating	3357	10.76	10.97	11.30	11.33		451.92	448.67	481.38	478.13	
Nonferrous foundries	336	9.52	9.54	9.54	9.52		396.03	385.42	396.86	399.84	
Aluminum foundries	3361	9.82	9.83	9.81	9.80		412.44	403.03	410.06	416.50	
Fabricated metal products	34	9.90	9.86	9.97	10.01	9.99	408.87	399.33	412.76	417.42	408.59
Metal cans and shipping containers	341	13.37	13.43	13.12	13.28	-	593.63	593.61	579.90	588.30	-
Metal cans	3411	14.10	14.11	13.91	14.05		627.45	627.90	612.04	622.42	
Cutlery, hand tools, and hardware	342	9.74	9.79	9.90	9.84		397.39	389.64	404.91	404.42	
Hand and edge tools, and hand saws and blades	3423,5	8.97	8.97	9.13	9.12		363.29	357.01	378.90	382.13	
Hardware, nec	3429	10.14	10.19	10.30	10.22		414.73	405.56	416.12	412.89	
Plumbing and heating, except electric	343	8.91	8.98	9.17	9.23		358.18	349.32	373.22	387.66	
Plumbing fittings and brass goods	3432	8.55	8.62	8.74	8.69		347.13	343.94	361.84	370.19	
Heating equipment, except electric	3433	8.79	8.80	9.14	9.22		341.05	327.36	363.77	373.41	
Fabricated structural metal products	344	9.12	9.06	9.23	9.27		371.18	366.93	375.66	380.07	
Fabricated structural metal	3441	9.60	9.52	9.80	9.86		400.32	396.03	409.64	409.19	
Metal doors, sash, and trim	3442	7.51	7.58	7.67	7.63		304.91	306.99	308.33	311.30	
Fabricated plate work (boiler shops)	3443	10.20	10.02	10.18	10.24		421.26	399.80	422.47	425.98	
Sheet metal work	3444	9.48	9.47	9.57	9.65		376.36	375.96	379.93	386.00	
Architectural metal work	3446	8.76	8.59	8.83	9.14		351.28	341.88	357.62	376.57	
Screw machine products, bolts, etc	345	9.39	9.41	9.77	9.79		398.14	391.46	421.09	421.95	
Screw machine products	3451	8.80	8.77	9.01	9.00		357.28	357.82	368.51	370.80	
Bolts, nuts, rivets, and washers	3452	9.96	10.04	10.48	10.53		440.23	425.70	474.74	473.85	
Metal forgings and stampings	346	11.93	11.77	11.77	11.91		509.41	482.57	495.52	507.37	
Iron and steel forgings	3462	12.39	12.44	12.40	12.45		519.14	515.02	517.08	521.66	
Automotive stampings	3465	13.96	13.69	13.70	13.92		625.41	573.61	590.47	612.48	
Metal stampings, nec	3469	9.06	9.05	9.16	9.22		367.84	360.19	375.56	378.94	
Metal services, nec	347	7.91	7.99	7.96	8.04		321.94	320.40	324.77	330.44	
Plating and polishing	3471	7.79	7.89	7.91	8.02		314.72	314.02	319.56	327.22	
Metal coating and allied services	3479	8.15	8.18	8.06	8.08		337.41	333.74	335.30	336.94	
Ordnance and accessories, nec	348	10.67	10.71	10.84	10.94		430.00	419.83	443.36	451.82	
Ammunition, except for small arms, nec	3483	10.34	10.33	10.44	10.48		403.26	407.00	417.60	419.20	
Misc. fabricated metal products	349	9.01	9.06	9.31	9.32		382.20	357.87	383.57	384.92	
Valves and pipe fittings	3494	9.76	9.78	9.88	9.92		386.50	378.49	410.02	415.65	
Misc. fabricated wire products	3496	8.06	8.13	8.44	8.44		329.65	319.51	346.04	347.73	
Machinery, except electrical	35	10.58	10.59	10.70	10.77	10.79	441.19	431.01	449.40	455.57	449.94
Engines and turbines	351	12.95	13.02	13.28	13.40	-	552.97	548.14	561.74	569.50	-
Turbines and turbine generator sets	3511	12.90	13.03	12.69	12.79		523.74	504.26	501.26	509.04	
Internal combustion engines, nec	3519	12.97	13.02	13.47	13.80		564.20	566.37	581.90	590.24	
Farm and garden machinery	352	10.41	10.53	10.12	10.23		424.73	421.20	419.98	427.61	
Farm machinery and equipment	3523	11.26	11.34	10.99	11.04		459.41	461.54	461.58	468.10	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		June 1986	July 1986	May 1987	June 1987 ^P	July 1987 ^P	June 1986	July 1986	May 1987	June 1987 ^P	July 1987 ^P
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	41.5	39.3	42.3	42.4		2.8	2.4	3.5	3.9	
Construction machinery	3531	42.2	38.3	42.6	43.6		2.5	1.9	2.8	3.6	
Mining machinery	3532	41.0	40.7	42.4	42.5		2.3	2.7	4.3	4.8	
Oil field machinery	3533	39.9	38.6	43.4	42.1		2.6	2.3	5.7	5.4	
Conveyors and conveying equipment	3535	42.6	42.2	42.3	41.9		3.8	4.1	3.7	3.7	
Industrial trucks and tractors	3537	40.4	38.3	40.1	39.7		2.9	2.3	2.3	2.7	
Metalworking machinery	354	42.2	41.8	42.1	42.6		4.4	4.3	4.2	4.5	
Machine tools, metal cutting types	3541	42.6	41.4	41.7	42.5		4.0	3.6	3.2	3.7	
Machine tools, metal forming types	3542	42.0	41.4	41.4	42.0		4.5	4.1	4.1	4.7	
Special dies, tools, jigs, and fixtures	3544	43.1	42.7	42.7	43.1		5.3	5.4	4.9	5.2	
Machine tool accessories	3545	40.6	40.0	41.2	41.6		3.6	3.2	3.6	3.7	
Power driven hand tools	3546	40.5	40.7	40.9	42.0		2.3	2.0	3.2	3.5	
Special industry machinery	355	41.7	40.6	42.0	42.2		3.3	3.0	3.8	4.0	
Food products machinery	3551	41.1	40.6	41.9	42.3		2.4	2.3	3.3	3.7	
Textile machinery	3552	42.0	40.7	43.3	43.8		3.5	3.1	4.2	4.5	
Printing trades machinery	3555	41.6	39.7	40.9	39.7		3.7	3.5	3.9	3.7	
General industrial machinery	356	41.7	41.0	41.9	42.2		3.2	3.2	3.5	3.9	
Pumps and pumping equipment	3561	41.4	40.3	42.6	43.2		2.1	2.1	3.5	4.0	
Ball and roller bearings	3562	43.3	42.2	43.2	43.9		5.0	4.8	4.6	5.4	
Air and gas compressors	3563	41.3	39.3	42.5	41.6		2.5	2.3	3.1	2.7	
Blowers and fans	3564	41.5	40.8	41.4	41.3		2.7	2.9	2.6	2.9	
Speed changers, drives, and gears	3566	42.3	41.5	41.9	41.2		3.6	3.8	3.5	3.2	
Power transmission equipment, nec	3568	40.6	42.0	40.9	41.9		3.2	3.9	3.6	4.4	
Office and computing machines	357	42.3	41.1	42.7	42.8		3.0	2.5	3.4	3.7	
Electronic computing equipment	3573	42.3	41.2	42.5	42.7		2.9	2.4	3.3	3.7	
Refrigeration and service machinery	358	41.4	40.4	41.5	42.2		3.2	3.1	3.2	3.7	
Refrigeration and heating equipment	3585	42.0	40.8	41.6	42.7		3.5	3.6	3.0	3.8	
Misc. machinery, except electrical	359	41.0	40.2	41.5	41.7		3.4	3.1	3.7	3.9	
Carburetors, pistons, rings, and valves	3592	41.0	38.6	41.4	42.3		3.6	2.6	3.7	4.4	
Machinery, except electrical, nec	3599	41.0	40.4	41.6	41.6		3.4	3.2	3.6	3.8	
Electrical and electronic equipment	36	40.9	40.4	40.6	41.1	40.4	2.7	2.5	2.7	3.0	
Electric distributing equipment	361	41.4	40.1	40.5	41.5	-	2.9	2.7	2.3	3.0	
Transformers	3612	42.9	41.0	41.2	42.3		3.1	2.8	2.5	3.1	
Switchgear and switchboard apparatus	3613	40.0	39.1	39.8	40.7		2.7	2.6	2.2	2.9	
Electrical industrial apparatus	362	40.9	40.3	40.9	41.5		2.8	2.7	3.1	3.4	
Motors and generators	3621	41.1	40.6	40.8	41.4		3.2	3.3	3.3	3.5	
Industrial controls	3622	40.3	39.6	40.0	40.7		2.2	1.8	2.0	2.8	
Household appliances	363	40.1	40.1	39.9	40.1		2.7	2.6	2.4	2.7	
Household refrigerators and freezers	3632	40.7	41.2	40.4	40.7		4.0	3.8	2.9	3.3	
Household laundry equipment	3633	40.0	40.6	41.1	40.5		1.8	2.2	2.4	3.4	
Electric housewares and fans	3634	39.5	39.4	40.0	40.3		2.1	2.7	2.4	2.3	
Electric lighting and wiring equipment	364	40.5	39.1	39.7	40.1		2.6	2.3	2.4	2.6	
Electric lamps	3641	41.1	39.4	40.0	40.0		2.7	2.4	2.7	2.7	
Current-carrying wiring devices	3643	40.8	39.7	39.8	40.0		2.7	2.0	2.3	2.7	
Noncurrent-carrying wiring devices	3644	39.9	38.2	40.7	40.7		2.0	1.4	2.7	2.6	
Residential lighting fixtures	3645	39.5	37.8	37.9	39.2		1.2	.8	1.1	1.5	
Radio and TV receiving equipment	365	40.6	41.4	40.4	41.2		2.7	2.8	1.9	1.9	
Radio and TV receiving sets	3651	40.7	41.9	40.5	41.1		2.6	2.7	1.4	1.4	
Communication equipment	366	41.3	41.0	41.4	41.2		2.5	2.4	2.5	2.6	
Telephone and telegraph apparatus	3661	40.5	40.9	42.2	42.1		1.8	1.8	2.5	2.5	
Radio and TV communication equipment	3662	41.6	41.0	41.1	40.9		2.7	2.6	2.5	2.6	
Electronic components and accessories	367	41.0	40.5	40.7	41.1		2.8	2.7	3.0	3.3	
Electronic tubes	3671-3	43.2	42.9	42.1	42.6		2.6	2.5	2.6	3.0	
Semiconductors and related devices	3674	41.2	40.8	40.6	41.0		3.2	3.1	3.4	3.5	
Electronic components, nec	3679	41.1	40.2	40.9	41.4		2.8	2.6	3.0	3.4	
Misc. electrical equipment and supplies	369	41.2	40.1	40.5	41.8		2.9	2.2	3.0	3.5	
Storage batteries	3691	41.0	39.2	41.0	42.4		2.3	2.4	3.3	3.6	
Engine electrical equipment	3694	41.9	40.4	41.1	42.8		3.8	2.3	3.7	4.5	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	\$11.11	\$10.98	\$11.11	\$11.16		\$461.07	\$431.51	\$469.95	\$473.18	
Construction machinery	3531	12.28	11.99	12.37	12.47		518.22	459.22	526.96	543.69	
Mining machinery	3532	11.41	11.57	11.32	11.43		467.81	470.90	479.97	485.78	
Oil field machinery	3533	11.33	11.32	11.33	11.25		452.07	436.95	491.72	473.63	
Conveyors and conveying equipment	3535	9.98	9.98	9.71	9.69		425.15	421.16	410.73	406.01	
Industrial trucks and tractors	3537	9.59	9.44	9.68	9.76		387.44	361.55	388.17	387.47	
Metalworking machinery	354	10.95	10.97	11.08	11.11		462.09	458.55	466.47	473.29	
Machine tools, metal cutting types	3541	11.03	10.99	11.00	11.17		469.88	454.99	458.70	474.73	
Machine tools, metal forming types	3542	11.46	11.55	11.43	11.36		481.32	478.17	473.20	477.12	
Special dies, tools, jigs, and fixtures	3544	11.64	11.66	11.83	11.84		501.68	497.88	505.14	510.30	
Machine tool accessories	3545	9.81	9.80	9.95	10.04		398.29	392.00	409.94	417.66	
Power driven hand tools	3546	8.41	8.54	8.50	8.44		340.61	347.58	347.65	354.48	
Special industry machinery	355	10.41	10.42	10.59	10.58		434.10	423.05	444.78	446.48	
Food products machinery	3551	10.66	10.65	10.64	10.65		438.13	432.39	445.82	450.50	
Textile machinery	3552	8.48	8.44	8.76	8.73		356.16	343.51	379.31	382.37	
Printing trades machinery	3555	10.87	11.06	11.27	11.22		452.19	439.08	460.94	445.43	
General industrial machinery	356	10.22	10.26	10.34	10.45		426.17	420.66	433.25	440.99	
Pumps and pumping equipment	3561	10.82	10.93	11.09	11.15		447.95	440.48	472.43	481.68	
Ball and roller bearings	3562	10.72	10.87	10.93	11.13		464.18	458.71	472.18	488.61	
Air and gas compressors	3563	9.96	9.90	10.31	10.33		411.35	389.07	438.18	429.73	
Blowers and fans	3564	9.09	9.01	9.13	9.20		377.24	367.61	377.98	379.96	
Speed changers, drives, and gears	3566	10.48	10.51	10.10	10.11		443.30	436.17	423.19	416.53	
Power transmission equipment, nec	3568	10.15	10.36	10.52	10.49		412.09	435.12	430.27	439.53	
Office and computing machines	357	9.91	10.01	10.23	10.34		419.19	411.41	436.82	442.55	
Electronic computing equipment	3573	9.87	10.00	10.23	10.35		417.50	412.00	434.78	441.95	
Refrigeration and service machinery	358	10.24	10.28	10.24	10.42		423.94	415.31	424.96	439.72	
Refrigeration and heating equipment	3585	10.51	10.58	10.45	10.69		441.42	431.66	434.72	456.46	
Misc. machinery, except electrical	359	10.23	10.19	10.40	10.45		419.43	409.64	431.60	435.77	
Carburetors, pistons, rings, and valves	3592	12.59	12.50	12.79	12.80		516.19	482.50	529.51	541.44	
Machinery, except electrical, nec	3599	9.83	9.85	10.02	10.06		403.03	397.94	416.83	418.50	
Electrical and electronic equipment	36	9.59	9.67	9.83	9.84	\$9.87	392.23	390.67	399.10	404.42	\$398.75
Electric distributing equipment	361	8.90	8.98	9.08	9.04	-	368.46	360.10	367.74	375.16	-
Transformers	3612	8.75	8.82	8.90	8.85		375.38	361.62	366.68	374.36	
Switchgear and switchboard apparatus	3613	9.04	9.14	9.24	9.23		361.60	357.37	367.75	375.66	
Electrical industrial apparatus	362	9.71	9.76	9.75	9.76		397.14	393.33	398.78	405.04	
Motors and generators	3621	9.64	9.70	9.63	9.64		396.20	393.82	392.90	399.10	
Industrial controls	3622	9.57	9.61	9.57	9.64		385.67	380.56	382.80	392.35	
Household appliances	363	9.57	9.69	9.70	9.76		383.76	388.57	387.03	391.38	
Household refrigerators and freezers	3632	10.88	11.02	11.03	11.15		442.82	454.02	445.61	453.81	
Household laundry equipment	3633	11.16	11.46	11.52	11.67		446.40	465.28	473.47	472.64	
Electric housewares and fans	3634	7.21	7.17	7.36	7.32		284.80	282.50	294.40	295.00	
Electric lighting and wiring equipment	364	8.85	8.82	9.09	9.09		358.43	344.86	360.87	364.51	
Electric lamps	3641	9.80	9.84	10.20	10.21		402.78	387.70	408.00	408.40	
Current-carrying wiring devices	3643	8.34	8.30	8.62	8.63		340.27	329.51	343.08	345.20	
Noncurrent-carrying wiring devices	3644	9.30	9.26	9.40	9.25		371.07	353.73	382.58	376.48	
Residential lighting fixtures	3645	6.61	6.64	6.71	6.80		261.10	250.99	254.31	266.56	
Radio and TV receiving equipment	365	9.39	9.48	9.24	9.21		381.23	392.47	373.30	379.45	
Radio and TV receiving sets	3651	9.77	9.78	9.51	9.50		397.64	409.78	385.16	390.45	
Communication equipment	366	11.20	11.16	11.69	11.69		462.56	457.56	483.97	481.63	
Telephone and telegraph apparatus	3661	10.69	10.43	11.12	11.16		432.95	426.59	469.26	469.84	
Radio and TV communication equipment	3662	11.34	11.45	11.89	11.88		471.74	469.45	488.68	485.89	
Electronic components and accessories	367	8.62	8.70	8.85	8.90		353.42	352.35	360.20	365.79	
Electronic tubes	3671-3	10.69	10.83	10.95	10.83		461.81	464.61	461.00	461.36	
Semiconductors and related devices	3674	10.13	10.23	10.48	10.60		417.36	417.38	425.49	434.60	
Electronic components, nec	3679	7.86	7.89	8.03	8.06		323.05	317.18	328.43	333.68	
Misc. electrical equipment and supplies	369	10.54	10.57	10.54	10.55		434.25	423.86	426.87	440.99	
Storage batteries	3691	10.99	11.22	11.04	11.09		450.59	439.82	452.64	470.22	
Engine electrical equipment	3694	11.26	11.10	11.23	11.31		471.79	448.44	461.55	484.07	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Durable goods—Continued											
Transportation equipment	37	42.3	41.5	42.2	41.9	41.1	4.1	4.0	4.3	4.2	
Motor vehicles and equipment	371	42.6	41.7	42.6	42.1	41.2	4.1	3.8	4.5	4.1	
Motor vehicles and car bodies	3711	41.7	41.3	42.4	41.4	-	3.6	3.3	4.4	3.7	
Truck and bus bodies	3713	41.0	40.3	42.0	42.1		3.7	3.2	3.9	4.0	
Motor vehicle parts and accessories	3714	43.8	42.3	43.0	43.0		4.7	4.5	4.7	4.6	
Truck trailers	3715	41.7	40.5	41.1	41.6		3.5	2.9	3.4	3.8	
Aircraft and parts	372	42.8	41.6	42.4	42.4		4.8	4.7	4.7	5.0	
Aircraft	3721	42.3	41.3	42.2	42.3		4.3	4.2	4.3	4.7	
Aircraft engines and engine parts	3724	42.6	41.5	42.2	42.2		5.0	5.4	4.6	4.6	
Aircraft equipment, nec	3728	43.5	42.0	42.9	42.7		5.3	4.9	5.3	5.6	
Ship and boat building and repairing	373	40.5	40.7	40.7	40.3		3.2	3.2	3.0	3.0	
Ship building and repairing	3731	40.4	41.5	40.4	39.9		3.3	3.5	2.7	2.7	
Boat building and repairing	3732	40.7	39.2	41.3	41.2		2.9	2.6	3.6	3.5	
Railroad equipment	374	40.0	39.9	40.1	40.9		1.7	2.2	1.3	2.0	
Guided missiles, space vehicles, and parts	376	42.2	41.5	41.9	41.9		4.2	4.3	4.0	4.0	
Guided missiles and space vehicles	3761	42.5	41.7	42.0	42.0		4.7	4.7	4.1	4.1	
Miscellaneous transportation equipment	379	40.0	40.2	39.6	39.7		3.0	3.5	3.5	3.3	
Travel trailers and campers	3792	38.6	38.3	37.8	37.6		2.6	2.5	2.0	1.6	
Instruments and related products	38	40.9	40.1	41.2	41.6	40.9	2.5	2.3	2.8	3.0	
Engineering and scientific instruments	381	41.3	41.2	41.0	41.0	-	2.9	2.8	2.9	3.2	
Measuring and controlling devices	382	40.9	39.6	41.2	41.7		2.1	1.8	2.6	2.7	
Environmental controls	3822	40.1	39.3	40.3	39.4		1.9	1.8	2.7	2.3	
Process control instruments	3823	41.2	39.6	42.7	43.0		2.6	2.1	3.1	3.2	
Instruments to measure electricity	3825	41.0	38.8	40.1	41.2		1.9	1.4	2.1	2.4	
Optical instruments and lenses	383	41.8	40.6	41.5	42.5		3.0	2.3	2.6	2.9	
Medical instruments and supplies	384	40.9	40.1	40.8	40.7		2.7	2.6	2.9	3.0	
Surgical and medical instruments	3841	41.2	40.3	41.4	41.0		2.7	2.9	3.3	3.2	
Surgical appliances and supplies	3842	40.8	40.2	40.1	40.4		2.8	2.5	2.4	2.7	
Ophthalmic goods	385	39.9	39.5	40.8	40.7		2.2	1.9	2.6	2.7	
Photographic equipment and supplies	386	40.8	40.5	42.8	44.1		2.9	2.7	3.5	3.8	
Watches, clocks, and watchcases	387	39.9	40.9	41.0	41.6		1.5	1.2	2.6	3.0	
Miscellaneous manufacturing	39	39.6	38.8	39.2	39.4	38.8	2.2	1.8	2.5	2.5	
Jewelry, silverware, and plated ware	391	38.1	37.4	38.4	38.3	-	1.6	.9	1.9	1.7	
Jewelry, precious metal	3911	37.1	36.1	37.4	37.4		1.3	.7	1.5	1.3	
Musical instruments	393	41.3	39.7	40.8	41.6		3.3	2.6	3.1	3.3	
Toys and sporting goods	394	39.8	39.0	39.0	39.1		2.0	1.9	2.1	2.0	
Dolls, games, toys, and children's vehicles	3942,4	39.0	38.0	38.3	38.0		2.0	1.6	1.9	1.7	
Sporting and athletic goods, nec	3949	40.4	39.8	39.6	40.1		2.0	2.1	2.3	2.2	
Pens, pencils, office, and art supplies	395	39.9	39.3	40.1	41.0		2.1	1.7	2.4	2.7	
Costume jewelry and notions	396	39.2	36.8	37.2	37.7		2.1	1.1	2.8	3.2	
Costume jewelry	3961	38.4	36.0	34.8	35.4		1.8	1.0	2.4	2.7	
Miscellaneous manufactures	399	39.8	39.4	39.9	40.1		2.5	2.3	2.8	2.7	
Signs and advertising displays	3993	40.2	39.8	39.7	39.8		2.5	2.4	2.5	2.5	
Nondurable goods		39.9	39.5	40.1	40.3	40.0	3.2	3.3	3.5	3.6	3.6
Food and kindred products	20	40.0	39.9	40.1	40.2	39.9	3.8	4.1	3.6	4.0	-
Meat products	201	39.8	39.6	39.4	39.9	-	3.8	3.9	3.6	3.8	
Meat packing plants	2011	41.3	41.1	41.2	40.7		4.6	4.5	4.5	4.1	
Sausages and other prepared meats	2013	40.2	40.6	40.5	41.1		3.5	4.2	3.7	3.8	
Poultry dressing plants	2016	38.4	38.3	37.9	39.0		3.2	3.3	3.0	3.6	
Dairy products	202	41.6	41.9	41.6	42.1		4.6	4.8	4.8	4.9	
Cheese, natural and processed	2022	39.8	40.2	39.5	40.2		3.7	3.9	4.1	4.0	
Fluid milk	2026	42.3	42.7	42.6	42.9		5.2	5.4	5.2	5.3	
Preserved fruits and vegetables	203	38.6	38.8	38.8	38.5		3.3	3.9	2.9	3.7	
Canned specialties	2032	39.8	40.3	38.1	38.2		4.4	2.9	1.9	2.5	
Canned fruits and vegetables	2033	36.9	38.3	39.3	36.7		3.3	4.5	3.2	4.0	
Frozen fruits and vegetables	2037	37.6	37.2	38.5	39.6		3.1	3.6	2.9	4.1	
Grain mill products	204	43.4	43.5	43.3	44.0		5.3	5.5	5.2	5.7	
Flour and other grain mill products	2041	45.2	45.7	46.2	46.8		4.5	5.1	5.7	6.7	
Prepared feeds, nec	2048	42.9	43.3	43.1	43.9		5.4	5.6	5.6	5.9	
Bakery products	205	39.9	39.9	39.9	40.0		3.8	3.8	3.9	3.8	
Bread, cake, and related products	2051	39.3	39.6	39.2	39.1		4.0	4.1	4.1	4.0	
Cookies and crackers	2052	41.6	40.8	41.8	42.3		3.4	3.0	3.5	3.4	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Durable goods—Continued											
Transportation equipment	37	\$12.72	\$12.73	\$12.85	\$12.91	\$12.82	\$538.06	\$528.30	\$542.27	\$540.93	\$526.90
Motor vehicles and equipment	371	13.33	13.33	13.42	13.50	13.33	567.86	555.86	571.69	568.35	549.20
Motor vehicles and car bodies	3711	14.78	14.85	15.10	15.21	-	616.33	613.31	640.24	629.69	-
Truck and bus bodies	3713	10.72	10.70	11.43	11.41	-	439.52	431.21	480.06	480.36	-
Motor vehicle parts and accessories	3714	12.69	12.71	12.61	12.70	-	555.82	537.63	542.23	546.10	-
Truck trailers	3715	9.58	9.59	9.38	9.40	-	399.49	388.40	385.52	391.04	-
Aircraft and parts	372	12.79	12.87	13.11	13.14	-	547.41	535.39	555.86	557.14	-
Aircraft	3721	(^a)	(^a)	(^a)	(^a)	-	-	-	-	-	-
Aircraft engines and engine parts	3724	\$12.91	\$13.14	\$13.10	\$13.17	-	549.97	545.31	552.82	555.77	-
Aircraft equipment, nec	3728	11.86	11.93	12.22	12.26	-	515.91	501.06	524.24	523.50	-
Ship and boat building and repairing	373	10.50	10.48	10.28	10.28	-	425.25	426.54	418.40	414.28	-
Ship building and repairing	3731	11.67	11.57	11.58	11.57	-	471.47	480.16	467.83	461.64	-
Boat building and repairing	3732	7.99	7.94	7.98	8.03	-	325.19	311.25	329.57	330.84	-
Railroad equipment	374	12.11	12.32	11.87	12.07	-	484.40	491.57	475.99	493.66	-
Guided missiles, space vehicles, and parts	376	12.05	12.12	12.50	12.60	-	508.51	502.98	523.75	527.94	-
Guided missiles and space vehicles	3761	12.35	12.37	12.90	12.99	-	524.88	515.83	541.80	545.58	-
Miscellaneous transportation equipment	379	10.50	10.54	10.74	10.71	-	420.00	423.71	425.30	425.19	-
Travel trailers and campers	3792	9.04	8.83	8.84	8.69	-	348.94	338.19	334.15	326.74	-
Instruments and related products	38	9.40	9.48	9.69	9.69	9.70	384.46	380.15	399.23	403.10	396.73
Engineering and scientific instruments	381	10.16	10.22	10.68	10.68	-	419.61	421.06	437.88	437.88	-
Measuring and controlling devices	382	9.25	9.27	9.53	9.58	-	378.33	367.09	392.64	399.49	-
Environmental controls	3822	8.70	8.75	8.92	8.92	-	348.87	343.88	359.48	351.45	-
Process control instruments	3823	9.39	9.35	9.48	9.46	-	386.87	370.26	404.80	406.78	-
Instruments to measure electricity	3825	9.45	9.46	9.74	9.87	-	387.45	367.05	390.57	406.64	-
Optical instruments and lenses	383	10.38	10.64	10.53	10.37	-	433.88	431.98	437.00	440.73	-
Medical instruments and supplies	384	8.38	8.45	8.65	8.70	-	342.74	338.85	352.92	354.09	-
Surgical and medical instruments	3841	8.56	8.63	8.72	8.81	-	352.67	347.79	361.01	361.21	-
Surgical appliances and supplies	3842	8.24	8.31	8.57	8.58	-	336.19	334.06	343.66	346.63	-
Ophthalmic goods	385	7.21	7.18	7.30	7.36	-	287.68	283.61	297.84	299.55	-
Photographic equipment and supplies	386	12.43	12.65	13.15	12.85	-	507.14	512.33	562.82	566.69	-
Watches, clocks, and watchcases	387	7.05	6.90	7.16	7.08	-	281.30	282.21	293.56	294.53	-
Miscellaneous manufacturing	39	7.53	7.57	7.72	7.73	7.75	298.19	293.72	302.62	304.56	300.70
Jewelry, silverware, and plated ware	391	8.12	8.14	8.28	8.18	-	309.37	304.44	317.95	313.29	-
Jewelry, precious metal	3911	8.14	8.15	8.40	8.28	-	301.99	294.22	314.16	309.67	-
Musical instruments	393	7.21	7.20	7.31	7.36	-	297.77	285.84	298.25	306.18	-
Toys and sporting goods	394	6.90	6.97	7.17	7.23	-	274.62	271.83	279.63	282.69	-
Dolls, games, toys, and children's vehicles	3942,4	6.84	6.84	7.01	7.07	-	266.76	259.92	268.48	268.66	-
Sporting and athletic goods, nec	3949	6.94	7.07	7.29	7.36	-	280.38	281.39	288.68	295.14	-
Pens, pencils, office, and art supplies	395	7.66	7.66	7.80	7.79	-	305.63	301.04	312.78	319.39	-
Costume jewelry and notions	396	6.02	6.05	6.17	6.13	-	235.98	222.64	229.52	231.10	-
Costume jewelry	3961	5.50	5.67	5.65	5.62	-	211.20	204.12	196.62	198.95	-
Miscellaneous manufactures	399	8.30	8.30	8.50	8.55	-	330.34	327.02	339.15	342.86	-
Signs and advertising displays	3993	8.68	8.63	8.85	8.88	-	348.94	343.47	351.35	353.42	-
Nondurable goods		8.92	9.00	9.13	9.12	9.16	355.91	355.50	366.11	367.54	366.40
Food and kindred products	20	8.74	8.76	8.96	8.90	8.86	349.60	349.52	359.30	357.78	353.51
Meat products	201	7.33	7.34	7.42	7.41	-	291.73	290.66	292.35	295.66	-
Meat packing plants	2011	8.29	8.26	8.28	8.27	-	342.38	339.49	341.14	336.59	-
Sausages and other prepared meats	2013	8.72	8.78	8.92	8.90	-	350.54	356.47	361.26	365.79	-
Poultry dressing plants	2016	5.95	5.95	6.14	6.18	-	228.48	227.89	232.71	241.02	-
Dairy products	202	9.39	9.39	9.65	9.58	-	390.62	393.44	401.44	403.32	-
Cheese, natural and processed	2022	8.83	8.77	8.96	8.85	-	351.43	352.55	353.92	355.77	-
Fluid milk	2026	9.87	9.95	10.10	10.11	-	417.50	424.87	430.26	433.72	-
Preserved fruits and vegetables	203	8.01	8.03	8.48	8.21	-	309.19	311.56	329.02	316.09	-
Canned specialties	2032	10.10	10.03	10.30	10.24	-	401.98	404.21	392.43	391.17	-
Canned fruits and vegetables	2033	8.06	7.93	8.55	8.22	-	297.41	303.72	336.02	301.67	-
Frozen fruits and vegetables	2037	7.28	7.34	7.73	7.55	-	273.73	273.05	297.61	298.98	-
Grain mill products	204	10.65	10.69	10.59	10.72	-	462.21	465.02	458.55	471.68	-
Flour and other grain mill products	2041	10.14	10.12	10.47	10.54	-	458.33	462.48	483.71	493.27	-
Prepared feeds, nec	2048	7.96	8.09	8.29	8.25	-	341.48	350.30	357.30	362.18	-
Bakery products	205	9.88	9.92	10.02	10.03	-	394.21	395.81	399.80	401.20	-
Bread, cake, and related products	2051	9.78	9.88	9.96	10.01	-	384.35	391.25	390.43	391.39	-
Cookies and crackers	2052	10.13	10.04	10.15	10.07	-	421.41	409.63	424.27	425.96	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	39.0	39.5	39.5	39.4		2.4	2.4	2.4	2.4	
Cane and beet sugar	2061-3	41.1	41.7	40.6	40.8		3.4	4.1	3.2	3.8	
Confectionery products	2065	37.5	38.2	38.6	38.1		1.8	1.7	1.9	1.7	
Fats and oils	207	42.4	42.3	41.2	41.7		4.7	4.9	4.6	5.1	
Beverages	208	41.5	41.5	41.8	41.5		4.4	4.6	4.8	4.5	
Malt beverages	2082	43.3	42.7	43.8	42.6		6.0	5.9	5.8	5.4	
Bottled and canned soft drinks	2086	41.2	41.8	42.1	42.0		4.5	4.9	5.3	4.8	
Misc. food and kindred products	209	38.2	37.6	39.0	38.6		3.6	4.0	3.9	3.7	
Tobacco manufactures	21	38.1	36.4	39.3	40.1	35.5	1.7	1.0	3.1	4.0	
Cigarettes	211	37.6	35.9	39.9	40.7	-	1.8	.8	3.7	4.7	
Textile mill products	22	41.1	40.2	41.9	42.3	41.9	4.0	3.7	4.4	4.8	
Weaving mills, cotton	221	40.7	40.6	42.8	43.2	-	4.5	4.9	5.7	6.2	
Weaving mills, synthetics	222	41.2	40.3	42.1	42.6		3.8	3.4	4.7	5.0	
Weaving and finishing mills, wool	223	42.5	39.9	43.0	43.2		4.4	3.0	1.8	2.3	
Narrow fabric mills	224	40.8	39.7	40.0	41.4		2.7	2.4	3.0	3.6	
Knitting mills	225	39.8	38.7	40.2	40.6		3.4	2.9	3.5	3.7	
Women's hosiery, except socks	2251	39.2	37.5	39.6	39.2		2.7	2.6	3.2	3.1	
Hosiery, nec	2252	39.5	38.8	38.9	40.2		2.8	2.4	2.7	3.1	
Knit outerwear mills	2253	38.6	37.1	39.4	39.7		3.3	2.7	3.2	3.3	
Knit underwear mills	2254	40.5	39.5	39.6	40.2		2.9	2.1	2.6	2.7	
Circular knit fabric mills	2257	41.8	41.6	43.1	43.3		5.1	5.0	5.8	6.1	
Textile finishing, except wool	226	41.5	40.0	42.1	43.2		4.2	3.7	4.8	5.6	
Finishing plants, cotton	2261	41.8	40.7	42.4	43.1		4.5	4.3	4.8	5.1	
Finishing plants, synthetics	2262	41.3	38.3	41.9	43.0		4.2	3.6	4.3	5.7	
Floor covering mills	227	41.0	40.5	44.1	43.6		3.7	4.1	4.7	4.8	
Yarn and thread mills	228	42.6	42.1	42.6	43.1		4.7	4.4	5.0	5.3	
Yarn mills, except wool	2281	43.3	43.2	43.4	44.0		5.1	4.9	5.6	5.9	
Throwing and winding mills	2282	39.7	38.2	37.8	38.5		4.0	3.1	2.7	3.1	
Miscellaneous textile goods	229	42.7	41.9	42.9	43.1		4.2	3.9	4.5	4.8	
Apparel and other textile products	23	36.9	36.3	37.2	37.5	36.9	1.5	1.3	1.7	1.9	
Men's and boys' suits and coats	231	35.7	35.5	35.9	36.2	-	.9	.8	.9	1.1	
Men's and boys' furnishings	232	37.7	36.9	37.5	37.9		1.3	1.0	1.6	1.8	
Men's and boys' shirts and nightwear	2321	38.0	36.6	37.7	38.2		1.6	1.0	1.6	1.7	
Men's and boys' separate trousers	2327	36.9	35.5	37.0	37.2		.9	.6	1.4	1.4	
Men's and boys' work clothing	2328	37.0	37.2	36.9	37.6		1.2	1.1	1.5	1.8	
Women's and misses' outerwear	233	35.1	34.6	35.7	35.9		1.2	1.1	1.5	1.6	
Women's and misses' blouses and waists	2331	36.2	35.6	35.0	35.7		1.3	.9	1.1	1.3	
Women's and misses' dresses	2335	33.1	32.9	35.2	35.5		.9	.9	1.4	1.5	
Women's and misses' suits and coats	2337	35.4	35.1	36.1	36.3		1.1	1.1	2.1	2.2	
Women's and misses' outerwear, nec	2339	35.6	35.0	36.0	36.0		1.5	1.2	1.5	1.5	
Women's and children's undergarments	234	37.7	36.9	37.6	38.1		1.3	1.2	1.2	1.4	
Women's and children's underwear	2341	38.2	37.4	37.8	38.6		1.4	1.2	1.0	1.4	
Brassieres and allied garments	2342	35.3	34.7	36.4	35.4		1.0	1.0	1.9	1.2	
Children's outerwear	236	38.0	37.2	37.3	38.4		2.1	1.6	1.4	2.0	
Children's dresses and blouses	2361	36.5	35.9	36.4	36.9		1.8	1.3	1.0	1.2	
Misc. apparel and accessories	238	37.3	36.9	38.6	38.6		1.2	1.1	2.3	2.1	
Misc. fabricated textile products	239	39.0	38.1	39.2	39.6		2.7	2.2	2.9	3.0	
Curtains and draperies	2391	37.0	36.7	38.0	37.7		1.6	1.7	1.6	1.9	
House furnishings, nec	2392	38.2	38.0	38.7	39.1		2.1	2.1	2.6	2.8	
Automotive and apparel trimmings	2396	42.0	39.6	41.4	42.6		5.6	3.8	5.4	5.4	
Paper and allied products	26	43.1	42.9	43.3	43.3	42.9	4.6	5.0	5.0	5.1	
Paper and pulp mills	261,2,6	45.2	45.5	45.6	45.1	-	6.2	7.0	6.8	6.4	
Paper mills, except building paper	262	45.3	45.6	45.4	45.2		6.3	7.0	6.8	6.6	
Paperboard mills	263	43.9	44.2	43.9	44.0		6.7	7.5	7.3	7.6	
Misc. converted paper products	264	41.9	41.3	42.0	42.1		3.3	3.4	3.7	3.8	
Paper coating and glazing	2641	43.6	42.8	44.0	44.5		3.4	3.3	4.3	4.3	
Envelopes	2642	41.4	40.4	41.7	41.3		2.8	2.8	3.0	2.8	
Bags, except textile bags	2643	41.6	41.4	41.5	42.0		3.6	3.9	3.6	4.1	
Paperboard containers and boxes	265	42.1	41.8	42.4	42.7		4.0	4.3	4.4	4.6	
Folding paperboard boxes	2651	42.0	41.7	42.3	42.6		3.6	3.8	4.4	4.5	
Corrugated and solid fiber boxes	2653	43.1	42.8	42.8	43.3		4.3	4.6	4.5	4.9	
Sanitary food containers	2654	40.0	39.2	41.9	42.6		5.0	5.0	4.3	4.4	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	\$8.92	\$9.03	\$9.34	\$9.36		\$347.88	\$356.69	\$368.93	\$368.78	
Cane and beet sugar	2061-3	10.65	10.86	10.99	11.06		437.72	452.86	446.19	451.25	
Confectionery products	2065	7.59	7.72	8.05	8.05		284.63	294.90	310.73	306.71	
Fats and oils	207	8.90	9.00	9.18	9.40		377.36	380.70	378.22	391.98	
Beverages	208	11.64	11.67	11.93	11.80		483.06	484.31	498.67	489.70	
Malt beverages	2082	16.12	16.22	16.67	16.62		698.00	692.59	730.15	708.01	
Bottled and canned soft drinks	2086	9.15	9.21	9.57	9.51		376.98	384.98	402.90	399.42	
Misc. food and kindred products	209	7.92	8.01	8.16	8.11		302.54	301.18	318.24	313.05	
Tobacco manufactures	21	13.79	13.73	14.53	15.52	\$14.75	525.40	499.77	571.03	622.35	\$523.63
Cigarettes	211	15.80	15.65	16.68	17.74	-	594.08	561.84	665.53	722.02	-
Textile mill products	22	6.86	6.88	7.13	7.15	7.17	281.95	276.58	298.75	302.45	300.42
Weaving mills, cotton	221	7.11	7.24	7.43	7.48	-	289.38	293.94	318.00	323.14	-
Weaving mills, synthetics	222	7.33	7.37	7.69	7.72		302.00	297.01	323.75	328.87	
Weaving and finishing mills, wool	223	7.46	7.42	7.60	7.71		317.05	296.06	326.80	333.07	
Narrow fabric mills	224	6.53	6.59	6.64	6.66		266.42	261.62	265.60	275.72	
Knitting mills	225	6.33	6.32	6.52	6.51		251.93	244.58	262.10	264.31	
Women's hosiery, except socks	2251	6.16	6.28	6.29	6.41		241.47	235.50	249.08	251.27	
Hosiery, nec	2252	5.99	6.00	6.18	6.17		236.61	232.80	240.40	248.03	
Knit outerwear mills	2253	6.36	6.28	6.48	6.40		245.50	232.99	255.31	254.08	
Knit underwear mills	2254	5.88	5.81	6.14	6.15		238.14	229.50	243.14	247.23	
Circular knit fabric mills	2257	6.88	6.90	7.18	7.18		287.58	287.04	309.46	310.89	
Textile finishing, except wool	226	7.22	7.17	7.41	7.49		299.63	286.80	311.96	323.57	
Finishing plants, cotton	2261	7.22	7.20	7.40	7.53		301.80	293.04	313.76	324.54	
Finishing plants, synthetics	2262	7.58	7.53	7.68	7.73		313.05	288.40	321.79	332.39	
Floor covering mills	227	7.10	7.30	7.61	7.58		291.10	295.65	335.60	330.49	
Yarn and thread mills	228	6.42	6.41	6.72	6.72		273.49	269.86	286.27	289.63	
Yarn mills, except wool	2281	6.42	6.41	6.72	6.72		277.99	276.91	291.65	295.68	
Throwing and winding mills	2282	6.41	6.44	6.73	6.71		254.48	246.01	254.39	258.34	
Miscellaneous textile goods	229	7.89	7.81	8.10	8.12		336.90	327.24	347.49	349.97	
Apparel and other textile products	23	5.83	5.79	5.89	5.93	5.88	215.13	210.18	219.11	222.38	216.97
Men's and boys' suits and coats	231	6.57	6.60	6.69	6.68	-	234.55	234.30	240.17	241.82	-
Men's and boys' furnishings	232	5.36	5.36	5.43	5.46		202.07	197.78	203.63	206.93	
Men's and boys' shirts and nightwear	2321	5.11	5.12	5.20	5.22		194.18	187.39	196.04	199.40	
Men's and boys' separate trousers	2327	5.26	5.27	5.34	5.34		194.09	187.09	197.58	198.65	
Men's and boys' work clothing	2328	5.46	5.43	5.51	5.58		202.02	202.00	203.32	209.81	
Women's and misses' outerwear	233	5.62	5.59	5.67	5.74		197.26	193.41	202.42	206.07	
Women's and misses' blouses and waists	2331	5.03	5.07	5.00	4.98		182.09	180.49	175.00	177.79	
Women's and misses' dresses	2335	5.90	5.83	5.97	6.15		195.29	191.81	210.14	218.33	
Women's and misses' suits and coats	2337	6.44	6.40	6.44	6.55		227.98	224.64	232.48	237.77	
Women's and misses' outerwear, nec	2339	5.44	5.44	5.51	5.55		193.66	190.40	198.36	199.80	
Women's and children's undergarments	234	5.35	5.34	5.47	5.49		201.70	197.05	205.67	209.17	
Women's and children's underwear	2341	5.21	5.21	5.28	5.32		199.02	194.85	199.58	205.35	
Brassieres and allied garments	2342	6.12	6.04	6.46	6.46		216.04	209.59	235.14	228.68	
Children's outerwear	236	5.13	5.12	5.20	5.29		194.94	190.46	193.96	203.14	
Children's dresses and blouses	2361	4.95	4.87	5.04	5.17		180.68	174.83	183.46	190.77	
Misc. apparel and accessories	238	5.55	5.55	5.62	5.66		207.02	204.80	216.93	218.48	
Misc. fabricated textile products	239	7.21	7.03	7.18	7.23		281.19	267.84	281.46	286.31	
Curtains and draperies	2391	5.57	5.63	5.73	5.80		206.09	206.62	217.74	218.66	
House furnishings, nec	2392	5.96	5.92	6.03	6.13		227.67	224.96	233.36	239.68	
Automotive and apparel trimmings	2396	11.30	10.85	11.06	10.98		474.60	429.66	457.88	467.75	
Paper and allied products	26	11.17	11.33	11.40	11.42	11.51	481.43	486.06	493.62	494.49	493.78
Paper and pulp mills	261,2,6	13.56	13.82	13.98	13.96	-	612.91	628.81	637.49	629.60	-
Paper mills, except building paper	262	13.64	13.88	14.07	14.05		617.89	632.93	638.78	635.06	
Paperboard mills	263	13.90	14.16	14.27	14.42		610.21	625.87	626.45	634.48	
Misc. converted paper products	264	9.62	9.70	9.86	9.92		403.08	400.61	414.12	417.63	
Paper coating and glazing	2641	10.85	10.99	11.03	10.97		473.06	470.37	485.32	488.17	
Envelopes	2642	8.71	8.81	9.16	9.17		360.59	355.92	381.97	378.72	
Bags, except textile bags	2643	9.02	9.12	9.02	9.20		375.23	377.57	374.33	386.40	
Paperboard containers and boxes	265	9.57	9.63	9.69	9.72		402.90	402.53	410.86	415.04	
Folding paperboard boxes	2651	9.86	9.89	10.16	10.21		414.12	412.41	429.77	434.95	
Corrugated and solid fiber boxes	2653	9.85	9.91	9.87	9.92		424.54	424.15	422.44	429.54	
Sanitary food containers	2654	9.18	9.24	9.33	9.28		367.20	362.21	390.93	395.33	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Nondurable goods—Continued											
Printing and publishing	27	37.6	37.7	37.7	37.7	37.7	2.4	2.6	2.8	2.7	
Newspapers	271	33.5	33.5	33.8	33.5	-	1.5	1.4	1.7	1.5	
Periodicals	272	37.2	37.3	38.4	38.4	-	2.1	2.1	3.0	2.9	
Books	273	39.6	40.0	38.7	38.7	-	3.2	3.6	4.1	3.3	
Book publishing	2731	38.2	38.7	38.6	38.7	-	2.4	2.7	3.7	2.9	
Book printing	2732	41.9	42.3	38.7	38.6	-	4.6	5.1	4.6	4.0	
Miscellaneous publishing	274	35.9	35.5	35.9	35.6	-	1.7	1.6	2.7	2.0	
Commercial printing	275	38.8	38.9	39.1	39.0	-	2.7	3.0	3.3	3.0	
Commercial printing, letterpress	2751	38.5	38.6	38.9	38.7	-	2.3	2.5	2.9	2.6	
Commercial printing, lithographic	2752	38.8	38.9	39.0	38.9	-	2.8	3.1	3.3	3.1	
Manifold business forms	276	40.7	41.1	40.9	42.1	-	3.0	3.6	3.1	3.5	
Blankbooks and bookbinding	278	38.5	38.4	37.8	38.4	-	1.9	2.1	1.9	2.3	
Printing trade services	279	38.8	38.7	38.2	38.8	-	3.4	3.6	3.0	3.3	
Chemicals and allied products	28	41.9	41.6	42.1	42.1	42.1	3.6	3.8	3.9	3.8	
Industrial inorganic chemicals	281	41.7	41.8	41.9	42.1	-	3.3	3.7	3.6	3.7	
Industrial inorganic chemicals, nec	2819	42.4	42.4	42.4	42.6	-	3.3	3.7	3.6	3.7	
Plastics materials and synthetics	282	41.7	42.0	42.5	42.7	-	3.8	4.2	4.4	4.5	
Plastics materials and resins	2821	42.9	42.6	43.3	43.4	-	4.5	4.7	4.7	4.9	
Organic fibers, noncellulosic	2824	41.3	42.4	42.0	42.4	-	3.5	4.0	4.0	4.0	
Drugs	283	41.9	40.9	41.2	41.8	-	3.1	2.8	2.8	3.1	
Pharmaceutical preparations	2834	42.1	41.1	41.0	41.8	-	3.2	3.0	2.8	3.2	
Soap, cleaners, and toilet goods	284	41.1	40.9	40.8	41.1	-	3.0	3.4	3.0	3.1	
Soap and other detergents	2841	44.5	44.4	43.2	43.8	-	4.5	6.1	4.9	5.2	
Polishing, sanitation, and finishing preparations	2842,3	42.0	41.0	40.6	41.4	-	3.3	2.5	2.4	3.2	
Toilet preparations	2844	38.7	38.7	39.6	39.5	-	2.0	2.2	2.1	2.0	
Paints and allied products	285	41.9	41.7	42.5	42.0	-	3.5	3.5	4.2	3.9	
Industrial organic chemicals	286	43.8	43.1	44.2	43.4	-	4.6	4.9	5.5	4.9	
Cyclic crudes and intermediates	2865	43.1	42.3	43.3	42.8	-	4.9	5.0	5.5	5.4	
Gum, wood, and industrial organic chemicals, nec	2861,9	44.0	43.4	44.5	43.6	-	4.5	4.8	5.5	4.8	
Agricultural chemicals	287	42.8	41.8	43.0	42.4	-	4.1	4.2	4.9	4.4	
Miscellaneous chemical products	289	41.0	40.6	41.2	41.5	-	3.4	3.3	3.2	3.1	
Petroleum and coal products	29	44.2	43.9	43.9	43.6	44.3	4.4	4.7	5.3	4.8	
Petroleum refining	291	44.3	44.1	43.6	43.4	-	3.7	4.0	4.7	4.0	
Paving and roofing materials	295	45.3	44.8	45.8	45.4	-	7.2	7.6	8.2	8.4	
Rubber and misc. plastics products	30	41.2	40.4	41.5	41.8	40.9	3.7	3.4	3.9	4.1	
Tires and inner tubes	301	42.9	42.1	43.5	43.8	-	4.8	4.9	4.7	5.2	
Rubber and plastics footwear	302	39.9	37.9	41.4	43.3	-	1.8	.2	2.0	3.4	
Reclaimed rubber, and rubber and plastics hose and belting	303,4	42.5	41.6	41.1	42.1	-	3.1	2.9	3.5	3.5	
Fabricated rubber products, nec	306	41.5	40.5	41.4	41.5	-	3.3	3.1	3.4	3.5	
Miscellaneous plastics products	307	40.9	40.1	41.2	41.5	-	3.6	3.4	3.9	4.1	
Leather and leather products	31	37.6	37.0	38.6	39.5	38.5	1.5	1.3	2.1	2.6	
Leather tanning and finishing	311	40.7	39.8	41.6	42.0	-	3.5	2.5	4.2	4.2	
Footwear, except rubber	314	36.9	36.9	38.6	39.7	-	1.3	1.1	2.0	2.6	
Men's footwear, except athletic	3143	36.1	36.1	38.4	39.6	-	1.0	.6	1.7	2.2	
Women's footwear, except athletic	3144	37.8	38.0	39.3	40.1	-	1.6	1.8	2.6	3.3	
Luggage	316	39.6	35.0	39.3	40.1	-	2.4	1.9	1.6	2.3	
Handbags and personal leather goods	317	36.8	35.8	36.7	37.1	-	.6	.9	1.7	2.0	
Transportation and public utilities		39.4	39.4	39.0	39.3	39.3					
Railroad transportation:											
Class I railroads ²	4011	43.9	43.9	43.9	44.2	-					
Local and interurban passenger transit	41	34.0	36.4	34.2	34.3	-					
Local and suburban transportation	411	38.2	37.9	38.5	38.3	-					
Intercity highway transportation	413	38.8	39.4	38.9	38.6	-					
Trucking and warehousing	42	38.4	38.3	38.5	38.8	-					
Trucking and trucking terminals	421,3	38.5	38.3	38.5	38.8	-					
Public warehousing	422	38.2	38.1	37.9	38.8	-					
Pipe lines, except natural gas	46	41.9	41.6	42.3	41.2	-					

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		June 1986	July 1986	May 1987	June 1987 ^a	July 1987 ^a	June 1986	July 1986	May 1987	June 1987 ^a	July 1987 ^a
Nondurable goods—Continued											
Printing and publishing	27	\$9.91	\$9.98	\$10.19	\$10.16	\$10.22	\$372.62	\$376.25	\$384.16	\$383.03	\$385.29
Newspapers	271	9.97	10.04	10.11	10.10	-	334.00	336.34	341.72	338.35	-
Periodicals	272	10.66	10.58	10.62	10.62	-	396.55	394.63	407.81	407.81	-
Books	273	9.01	8.96	9.20	9.24	-	356.80	358.40	356.04	357.59	-
Book publishing	2731	8.55	8.44	8.84	8.74	-	326.61	326.63	341.22	338.24	-
Book printing	2732	9.71	9.77	9.79	10.07	-	406.85	413.27	378.87	388.70	-
Miscellaneous publishing	274	9.02	9.15	9.33	9.36	-	323.82	324.83	334.95	333.22	-
Commercial printing	275	10.14	10.24	10.51	10.44	-	393.43	398.34	410.94	407.16	-
Commercial printing, letterpress	2751	9.75	9.80	10.16	10.05	-	375.38	378.28	395.22	388.94	-
Commercial printing, lithographic	2752	10.26	10.39	10.63	10.59	-	398.09	404.17	414.57	411.95	-
Manifold business forms	276	10.33	10.43	10.68	10.71	-	420.43	428.67	436.81	450.89	-
Blankbooks and bookbinding	278	7.84	7.84	8.09	8.09	-	301.84	301.06	305.80	310.66	-
Printing trade services	279	11.90	12.02	12.20	12.29	-	461.72	465.17	466.04	476.85	-
Chemicals and allied products	28	11.95	12.05	12.31	12.27	12.35	500.71	501.28	518.25	516.57	519.94
Industrial inorganic chemicals	281	13.10	13.25	13.48	13.53	-	546.27	553.85	564.81	569.61	-
Industrial inorganic chemicals, nec	2819	13.16	13.33	13.60	13.64	-	557.98	565.19	576.64	581.06	-
Plastics materials and synthetics	282	12.12	12.22	12.49	12.48	-	505.40	513.24	530.83	532.90	-
Plastics materials and resins	2821	13.08	13.26	13.56	13.47	-	561.13	564.88	587.15	584.60	-
Organic fibers, noncellulosic	2824	11.76	11.80	11.92	11.97	-	485.69	500.32	500.64	507.53	-
Drugs	283	11.22	11.23	11.60	11.64	-	470.12	459.31	477.92	486.55	-
Pharmaceutical preparations	2834	10.95	10.91	11.26	11.30	-	461.00	448.40	461.66	472.34	-
Soap, cleaners, and toilet goods	284	10.70	10.74	10.88	10.70	-	439.77	439.27	443.90	439.77	-
Soap and other detergents	2841	13.70	13.89	14.11	13.97	-	609.65	616.72	609.55	611.89	-
Polishing, sanitation, and finishing preparations	2842,3	10.02	10.03	10.02	9.96	-	420.84	411.23	406.81	412.34	-
Toilet preparations	2844	9.00	8.89	9.30	9.12	-	348.30	344.04	368.28	360.24	-
Paints and allied products	285	10.33	10.32	10.83	10.69	-	432.83	430.34	460.28	448.98	-
Industrial organic chemicals	286	14.39	14.58	14.79	14.78	-	630.28	628.40	653.72	641.45	-
Cyclic crudes and intermediates	2865	14.19	14.33	14.69	14.75	-	611.59	606.16	636.08	631.30	-
Gum, wood, and industrial organic chemicals, nec	2861,9	14.45	14.66	14.82	14.79	-	635.80	636.24	659.49	644.84	-
Agricultural chemicals	287	11.34	11.66	11.64	11.81	-	485.35	487.39	500.52	500.74	-
Miscellaneous chemical products	289	10.94	11.04	11.29	11.22	-	448.54	448.22	465.15	465.63	-
Petroleum and coal products	29	14.12	14.16	14.52	14.41	14.53	624.10	621.62	637.43	628.28	643.68
Petroleum refining	291	15.30	15.36	15.75	15.60	-	677.79	677.38	686.70	677.04	-
Paving and roofing materials	295	10.99	10.95	11.43	11.43	-	497.85	490.56	523.49	518.92	-
Rubber and misc. plastics products	30	8.71	8.78	8.84	8.86	8.95	358.85	354.71	366.86	370.35	366.06
Tires and inner tubes	301	13.69	13.89	13.85	14.00	-	587.30	584.77	602.48	613.20	-
Rubber and plastics footwear	302	5.91	6.18	5.99	6.05	-	235.81	234.22	247.99	261.97	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	8.48	8.63	8.92	8.96	-	360.40	359.01	366.61	377.22	-
Fabricated rubber products, nec	306	8.46	8.51	8.53	8.53	-	351.09	344.66	353.14	354.00	-
Miscellaneous plastics products	307	8.07	8.10	8.24	8.26	-	330.06	324.81	339.49	342.79	-
Leather and leather products	31	5.91	5.92	6.05	6.04	5.98	222.22	219.04	233.53	238.58	230.23
Leather tanning and finishing	311	7.69	7.59	8.12	8.14	-	312.98	302.08	337.79	341.88	-
Footwear, except rubber	314	5.59	5.61	5.70	5.70	-	206.27	207.01	220.02	226.29	-
Men's footwear, except athletic	3143	5.97	6.02	6.07	6.07	-	215.52	217.32	233.09	240.37	-
Women's footwear, except athletic	3144	5.31	5.29	5.39	5.37	-	200.72	201.02	211.83	215.34	-
Luggage	316	6.11	5.94	6.42	6.37	-	241.96	207.90	252.31	255.44	-
Handbags and personal leather goods	317	5.71	5.86	5.94	6.00	-	210.13	209.79	218.00	222.60	-
Transportation and public utilities		11.63	11.67	11.95	11.95	11.99	458.22	459.80	466.05	469.64	471.21
Railroad transportation:											
Class I railroads ³	4011	13.77	13.81	14.28	14.28	-	604.50	606.26	626.89	631.18	-
Local and interurban passenger transit	41	7.95	8.20	8.15	8.22	-	270.30	298.48	278.73	281.95	-
Local and suburban transportation	411	8.47	8.49	8.75	8.82	-	323.55	321.77	336.88	337.81	-
Intercity highway transportation	413	11.62	11.74	11.58	11.69	-	450.86	462.56	450.46	451.23	-
Trucking and warehousing	42	10.72	10.63	10.86	10.80	-	411.65	407.13	418.11	419.04	-
Trucking and trucking terminals	421,3	10.88	10.80	11.03	10.97	-	418.88	413.64	424.66	425.64	-
Public warehousing	422	8.42	8.31	8.43	8.43	-	321.64	316.61	319.50	327.08	-
Pipe lines, except natural gas	46	15.05	14.82	15.36	15.30	-	630.60	616.51	649.73	630.36	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Transportation and public utilities—Continued											
Communication	48	40.2	40.4	39.5	39.7						
Telephone communication	481	41.7	41.8	40.7	41.0						
Radio and television broadcasting	483	36.6	36.7	36.3	36.4						
Electric, gas, and sanitary services	49	41.7	41.9	41.4	41.5						
Electric services	491	41.7	42.0	41.1	41.1						
Gas production and distribution	492	40.8	41.2	40.5	40.4						
Combination utility services	493	41.9	41.9	42.4	42.3						
Sanitary services	495	43.6	43.1	42.9	43.4						
Wholesale trade		38.5	38.5	38.3	38.4	38.2					
Durable goods	50	38.9	38.8	38.7	38.9						
Motor vehicles and automotive equipment	501	38.6	38.6	38.3	38.4						
Furniture and home furnishings	502	36.9	36.6	36.8	37.2						
Lumber and construction materials	503	39.7	39.8	39.7	39.6						
Sporting goods, toys, and hobby goods	504	36.6	36.6	36.3	36.3						
Metals and minerals, except petroleum	505	40.4	40.0	40.4	41.0						
Electrical goods	506	38.3	38.5	38.5	38.6						
Hardware, plumbing, and heating equipment	507	38.6	38.5	38.5	38.8						
Machinery, equipment, and supplies	508	39.5	39.3	39.1	39.3						
Miscellaneous durable goods	509	37.4	37.3	38.0	37.8						
Nondurable goods	51	37.9	38.0	37.7	37.6						
Paper and paper products	511	37.2	37.1	37.2	37.2						
Drugs, proprietaries, and sundries	512	36.8	37.5	36.9	37.2						
Apparel, piece goods, and notions	513	36.3	36.3	36.4	36.5						
Groceries and related products	514	38.5	38.7	38.1	38.2						
Chemicals and allied products	516	39.4	39.4	38.9	39.2						
Petroleum and petroleum products	517	39.5	39.7	39.3	39.3						
Beer, wine, and distilled beverages	518	36.4	36.6	35.8	36.0						
Miscellaneous nondurable goods	519	37.6	37.5	37.5	36.9						
Retail trade		29.5	29.9	29.3	29.6	30.0					
Building materials and garden supplies	52	36.8	36.9	36.9	37.2						
Lumber and other building materials	521	38.9	38.8	38.6	39.0						
Hardware stores	525	33.2	33.5	33.3	33.8						
General merchandise stores	53	28.9	29.6	28.3	28.5						
Department stores	531	28.7	29.5	28.2	28.3						
Variety stores	533	29.6	30.1	29.1	29.5						
Misc. general merchandise stores	539	30.0	30.5	29.6	30.0						
Food stores	54	30.6	31.1	29.9	30.7						
Grocery stores	541	30.8	31.3	30.1	31.0						
Retail bakeries	546	29.1	29.2	27.1	27.7						
Automotive dealers and service stations	55	36.9	36.9	36.6	36.9						
New and used car dealers	551,2	37.5	37.4	37.3	37.7						
Auto and home supply stores	553	39.9	39.9	39.6	39.5						
Gasoline service stations	554	34.4	34.6	34.1	34.4						
Apparel and accessory stores	56	26.9	27.2	26.7	27.1						
Men's and boys' clothing and furnishings	561	30.4	30.6	29.7	30.1						
Women's ready-to-wear stores	562	25.6	26.0	25.6	25.7						
Family clothing stores	565	27.3	27.0	26.6	27.2						
Shoe stores	566	27.8	28.3	26.9	28.1						
Furniture and home furnishings stores	57	32.8	33.1	32.7	33.1						
Furniture and home furnishings stores	571	32.7	33.0	32.7	33.1						
Household appliance stores	572	34.0	34.3	33.7	34.0						
Radio, television, and music stores	573	32.7	32.9	32.4	32.9						
Eating and drinking places ⁴	58	25.9	26.2	25.9	26.3						

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Transportation and public utilities—Continued											
Communication	48	\$12.06	\$12.11	\$12.29	\$12.33		\$484.81	\$489.24	\$485.46	\$489.50	
Telephone communication	481	12.82	12.81	13.04	13.05		534.59	535.46	530.73	535.05	
Radio and television broadcasting	483	10.73	10.72	10.84	10.94		392.72	393.42	393.49	398.22	
Electric, gas, and sanitary services	49	13.31	13.29	13.70	13.67		555.03	556.85	567.18	567.31	
Electric services	491	13.39	13.42	13.80	13.78		558.36	563.64	567.18	566.36	
Gas production and distribution	492	12.49	12.40	12.94	12.80		509.59	510.88	524.07	517.12	
Combination utility services	493	15.53	15.45	15.97	16.07		650.71	647.36	677.13	679.76	
Sanitary services	495	9.67	9.72	10.05	9.96		421.61	418.93	431.15	432.26	
Wholesale trade		9.33	9.30	9.57	9.56	\$9.57	359.21	358.05	366.53	367.10	\$365.57
Durable goods	50	9.44	9.40	9.68	9.69		367.22	364.72	374.62	376.94	
Motor vehicles and automotive equipment	501	8.39	8.39	8.59	8.64		323.85	323.85	329.00	331.78	
Furniture and home furnishings	502	8.65	8.62	8.99	8.96		319.19	315.49	330.83	333.31	
Lumber and construction materials	503	8.95	8.94	9.17	9.14		355.32	355.81	364.05	361.94	
Sporting goods, toys, and hobby goods	504	9.69	9.68	9.76	9.75		354.65	354.29	354.29	353.93	
Metals and minerals, except petroleum	505	10.21	10.10	10.29	10.35		412.48	404.00	415.72	424.35	
Electrical goods	506	9.63	9.59	10.06	9.98		368.83	369.22	387.31	385.23	
Hardware, plumbing, and heating equipment	507	8.94	8.94	9.20	9.21		345.08	344.19	354.20	357.35	
Machinery, equipment, and supplies	508	10.08	10.02	10.33	10.34		398.16	393.79	403.90	406.36	
Miscellaneous durable goods	509	7.64	7.53	7.70	7.75		285.74	280.87	292.60	292.95	
Nondurable goods	51	9.16	9.15	9.41	9.38		347.16	347.70	354.76	352.69	
Paper and paper products	511	9.81	9.82	10.17	10.05		364.93	364.32	378.32	373.86	
Drugs, proprietaries, and sundries	512	10.54	10.36	10.94	10.84		387.87	388.50	403.69	403.25	
Apparel, piece goods, and notions	513	8.83	8.75	9.24	9.14		320.53	317.63	336.34	333.61	
Groceries and related products	514	9.24	9.27	9.49	9.46		355.74	358.75	361.57	361.37	
Chemicals and allied products	516	11.44	11.36	12.12	11.98		450.74	447.58	471.47	469.62	
Petroleum and petroleum products	517	9.77	9.68	9.70	9.61		385.92	384.30	381.21	377.67	
Beer, wine, and distilled beverages	518	11.04	11.05	11.10	11.01		401.86	404.43	397.38	396.36	
Miscellaneous nondurable goods	519	7.45	7.42	7.70	7.71		280.12	278.25	288.75	284.50	
Retail trade		6.00	5.98	6.09	6.07	6.07	177.00	178.80	178.44	179.67	182.10
Building materials and garden supplies	52	6.73	6.74	6.93	6.94		247.66	248.71	255.72	258.17	
Lumber and other building materials	521	7.09	7.08	7.26	7.26		275.80	274.70	280.24	283.14	
Hardware stores	525	5.73	5.74	5.92	5.90		190.24	192.29	197.14	199.42	
General merchandise stores	53	6.27	6.30	6.45	6.45		181.20	186.48	182.54	183.83	
Department stores	531	6.56	6.58	6.76	6.75		188.27	194.11	190.63	191.03	
Variety stores	533	4.70	4.79	4.80	4.80		139.12	144.18	139.68	141.60	
Misc. general merchandise stores	539	4.91	4.89	5.08	5.05		147.30	149.15	150.37	151.50	
Food stores	54	7.03	6.98	6.95	6.90		215.12	217.08	207.81	211.83	
Grocery stores	541	7.20	7.14	7.10	7.04		221.76	223.48	213.71	218.24	
Retail bakeries	546	5.44	5.45	5.60	5.56		158.30	159.14	151.76	154.01	
Automotive dealers and service stations	55	7.71	7.63	7.79	7.80		284.50	281.55	285.11	287.82	
New and used car dealers	551,2	9.49	9.38	9.51	9.54		355.88	350.81	354.72	359.66	
Auto and home supply stores	553	6.54	6.49	6.70	6.71		260.95	258.95	265.32	265.05	
Gasoline service stations	554	5.44	5.43	5.51	5.49		187.14	187.88	187.89	188.86	
Apparel and accessory stores	56	5.39	5.34	5.56	5.58		144.99	145.25	148.45	151.22	
Men's and boys' clothing and furnishings	561	6.35	6.29	6.71	6.82		193.04	192.47	199.29	205.28	
Women's ready-to-wear stores	562	5.08	5.03	5.21	5.21		130.05	130.78	133.38	133.90	
Family clothing stores	565	5.38	5.29	5.49	5.60		146.87	142.83	146.03	152.32	
Shoe stores	566	5.38	5.36	5.59	5.51		149.56	151.69	150.37	154.83	
Furniture and home furnishings stores	57	7.30	7.29	7.48	7.47		239.44	241.30	244.60	247.26	
Furniture and home furnishings stores	571	7.33	7.29	7.54	7.53		239.69	240.57	246.56	249.24	
Household appliance stores	572	7.42	7.34	7.39	7.45		252.28	251.76	249.04	253.30	
Radio, television, and music stores	573	7.22	7.28	7.42	7.36		236.09	239.51	240.41	242.14	
Eating and drinking places ⁴	58	4.33	4.32	4.39	4.38		112.15	113.18	113.70	115.19	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Retail trade—Continued											
Miscellaneous retail	59	30.4	30.6	30.3	30.5						
Drug stores and proprietary stores	591	28.8	29.1	27.9	28.6						
Miscellaneous shopping goods stores	594	28.9	29.3	28.5	29.1						
Nonstore retailers	596	32.9	32.7	33.1	33.0						
Fuel and ice dealers	598	38.1	37.9	37.8	38.2						
Retail stores, nec	599	32.0	31.7	33.0	31.8						
Finance, insurance, and real estate⁵		36.5	36.3	36.3	36.4	36.0					
Banking	60	36.6	36.4	36.1	36.1						
Commercial and stock savings banks	602	36.6	36.4	36.1	36.1						
Credit agencies other than banks	61	37.2	36.8	36.7	37.0						
Savings and loan associations	612	36.5	36.3	36.1	36.2						
Personal credit institutions	614	36.1	36.1	36.4	36.7						
Insurance carriers	63	37.6	37.3	37.4	37.4						
Life insurance	631	37.1	36.8	37.0	36.9						
Medical service and health insurance	632	37.8	37.6	38.2	37.9						
Fire, marine, and casualty insurance	633	37.7	37.4	37.2	37.4						
Services		32.6	32.8	32.4	32.6	32.7					
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	31.0	31.2	30.8	30.8						
Personal services:											
Laundry, cleaning, and garment services	721	34.1	33.9	34.6	34.3						
Beauty shops ⁴	723	29.8	29.2	29.8	29.9						
Business services	73	33.8	33.6	33.5	33.7						
Advertising	731	36.4	36.2	36.4	36.8						
Services to buildings	734	29.0	28.5	28.7	29.3						
Computer and data processing services	737	37.9	38.2	37.4	37.6						
Auto repair, services, and garages	75	37.6	37.9	36.9	37.0						
Automotive repair shops	753	38.7	38.9	38.3	38.6						
Miscellaneous repair services	76	37.9	38.0	37.6	38.1						
Motion pictures	78	27.4	28.8	28.0	29.0						
Motion picture production and services	781	35.7	35.9	36.3	37.3						
Amusement and recreation services	79	28.8	30.2	28.2	29.2						
Health services	80	32.5	32.6	32.2	32.4						
Offices of physicians	801	31.0	30.9	30.8	30.8						
Offices of dentists	802	27.9	27.9	28.0	28.1						
Nursing and personal care facilities	805	31.5	31.9	31.3	31.7						
Hospitals	806	34.3	34.5	33.9	34.3						
Legal services	81	35.0	35.0	34.5	34.9						
Miscellaneous services	89	38.5	38.6	38.3	38.5						
Engineering and architectural services	891	39.8	39.9	39.4	39.8						
Accounting, auditing, and bookkeeping	893	37.0	37.0	36.8	36.6						

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Retail trade—Continued											
Miscellaneous retail	59	\$6.13	\$6.12	\$6.31	\$6.29		\$186.35	\$187.27	\$191.19	\$191.85	
Drug stores and proprietary stores	591	5.62	5.65	5.86	5.82		161.86	164.42	163.49	166.45	
Miscellaneous shopping goods stores	594	5.73	5.69	5.87	5.85		165.60	166.72	167.30	170.24	
Nonstore retailers	596	7.00	7.03	7.21	7.20		230.30	229.88	238.65	237.60	
Fuel and ice dealers	598	8.57	8.51	8.88	8.84		326.52	322.53	335.66	337.69	
Retail stores, nec	599	6.41	6.46	6.46	6.53		205.12	204.78	213.18	207.65	
Finance, insurance, and real estate⁵		8.37	8.30	8.72	8.65	\$8.63	305.51	301.29	316.54	314.86	\$310.68
Banking	60	7.19	7.14	7.49	7.44		263.15	259.90	270.39	268.58	
Commercial and stock savings banks	602	7.00	6.96	7.24	7.22		256.20	253.34	261.36	260.64	
Credit agencies other than banks	61	7.64	7.57	7.90	7.88		284.21	278.58	289.93	291.56	
Savings and loan associations	612	6.97	6.90	7.34	7.35		254.41	250.47	264.97	266.07	
Personal credit institutions	614	7.25	7.20	7.38	7.41		261.73	259.92	268.63	271.95	
Insurance carriers	63	9.05	9.06	9.54	9.53		340.28	337.94	356.80	356.42	
Life insurance	631	8.55	8.61	9.12	9.10		317.21	316.85	337.44	335.79	
Medical service and health insurance	632	9.08	9.10	9.34	9.35		343.22	342.16	356.79	354.37	
Fire, marine, and casualty insurance	633	9.43	9.38	9.90	9.86		355.51	350.81	368.28	368.76	
Services		8.10	8.04	8.38	8.35	8.34	264.06	263.71	271.51	272.21	272.72
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	5.87	5.81	6.09	6.03		181.97	181.27	187.57	185.72	
Personal services:											
Laundry, cleaning, and garment services	721	5.99	6.00	6.12	6.17		204.26	203.40	211.75	211.63	
Beauty shops ⁴	723	6.31	6.30	6.39	6.54		188.04	183.96	190.42	195.55	
Business services	73	8.44	8.42	8.62	8.66		285.27	282.91	288.77	291.84	
Advertising	731	11.60	11.47	11.75	11.78		422.24	415.21	427.70	433.50	
Services to buildings	734	6.59	6.66	6.71	6.79		191.11	189.81	192.58	198.95	
Computer and data processing services	737	11.70	11.58	11.96	12.06		443.43	442.36	447.30	453.46	
Auto repair, services, and garages	75	7.53	7.49	7.78	7.83		283.13	283.87	287.08	289.71	
Automotive repair shops	753	8.15	8.10	8.39	8.41		315.41	315.09	321.34	324.63	
Miscellaneous repair services	76	8.79	8.79	9.03	9.03		333.14	334.02	339.53	344.04	
Motion pictures	78	10.91	10.95	11.72	10.98		298.93	315.36	328.16	318.42	
Motion picture production and services	781	15.56	16.02	15.42	15.29		555.49	575.12	559.75	570.32	
Amusement and recreation services	79	6.43	6.16	7.06	6.51		185.18	186.03	199.09	190.09	
Health services	80	8.31	8.36	8.61	8.60		270.08	272.54	277.24	278.64	
Offices of physicians	801	8.17	8.13	8.30	8.29		253.27	251.22	255.64	255.33	
Offices of dentists	802	8.29	8.24	8.48	8.46		231.29	229.90	237.44	237.73	
Nursing and personal care facilities	805	5.78	5.82	5.94	5.96		182.07	185.66	185.92	188.93	
Hospitals	806	9.29	9.40	9.75	9.73		318.65	324.30	330.53	333.74	
Legal services	81	11.40	11.16	11.69	11.86		399.00	390.60	403.31	413.91	
Miscellaneous services	89	11.77	11.64	12.01	11.99		453.15	449.30	459.98	461.62	
Engineering and architectural services	891	12.56	12.42	12.89	12.80		499.89	495.56	507.87	509.44	
Accounting, auditing, and bookkeeping	893	10.11	9.98	10.21	10.30		374.07	369.26	375.73	376.98	

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

² See table C-2a for average hourly earnings in the aircraft industry (SIC 3721).

³ Data relate to line haul railroads with operating revenues of \$50,000,000 or more.

⁴ Money payments only; tips, not included.

⁵ Data for nonoffice sales agents are excluded from all series in this division.

- Data not available.

^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 forward are subject to revision.

A Note on Average Hourly Earnings in Aircraft Manufacturing

For many years, the Bureau of Labor Statistics' average hourly earnings series for production workers in aircraft manufacturing (SIC 3721) has been used to escalate labor costs in contracts between aircraft companies and their customers. Although the Bureau's series by definition takes account of traditional wage rate changes, it does not capture "lump-sum payments to workers in lieu of general wage increases" which were negotiated in aircraft manufacturers' collective bargaining agreements beginning in late 1983.

As a service to aircraft companies and other interested parties, BLS has calculated an average hourly earnings series for SIC 3721 which includes lump-sum payments. This series is presented in table C-2a along with the average hourly earnings series produced as part of the Current Employment Statistics program. The series begins in October 1983, the effective date of the first aircraft bargaining agreement using lump-sum payments.

The general practice in the industry has been to make this payment at the beginning of the contract year "in lieu of a wage increase" and to base the amount of the payment on the workers' earnings during the preceding year. As a result, the Bureau considered three approaches to the method for calculating an average hourly earnings series which includes lump-sum payments:

1. The entire payment could be included in the month in which the payment was made.
2. The payments could be prorated backward to payroll periods used to determine the amount of the lump-sum payment.
3. The payments could be prorated forward as an advance

payment for payroll periods in the year following the payment.

The first approach, attractive because it includes the payment in the month in which it is received by the worker, creates 1-month "spikes" and a series which would not be useful for escalation purposes. The second approach, which prorates the payments backward, places emphasis on the determination of the amount of the payment from workers' earnings in the previous year. This approach generally relates the payments to the workers who receive them. However, the Bureau has received statements from both union and company officials who negotiated the agreements covering a majority of the workers in the industry. These statements make clear that the intent of the bargainers was to make an advance payment for the upcoming contract year in lieu of an increase in wage rates for that following year.

Because BLS has a longstanding policy of leaving the interpretation of collective bargaining agreements to the parties involved, the Bureau calculated the inclusion of lump-sum payments using the third method, prorating the payments forward through the years covered by the contract. Because the payments prorated forward under this approach may include payments to workers no longer on the payroll, data provided by the aircraft companies have been used to adjust for this difference.

Lump-sum payments are but one of several recent changes in the way that employees are compensated. The changes are widespread and they differ by industry. Because of these developments, the Bureau plans to conduct a broad-based review of all concepts and definitions used in its earnings and wage programs to determine the proper treatment of lump-sum payments and other new compensation practices.

C-2a. Average hourly earnings in aircraft manufacturing (SIC 3721)

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Average hourly earnings, excluding lump-sum payments													
1983											\$12.76	\$12.83	\$12.93
1984	\$12.91	\$12.82	\$12.88	\$12.85	\$12.81	\$12.78	\$12.87	\$12.89	\$12.87	\$12.97	13.04	13.05	13.13
1985	13.18	13.01	13.12	13.11	13.04	13.06	13.11	13.05	13.16	13.26	13.35	13.37	13.48
1986	13.48	13.38	13.44	13.46	13.45	13.38	13.42	13.41	13.44	13.48	13.52	13.67	13.65
1987		13.61	13.61	13.66	13.63	13.73	^P 13.72						
Average hourly earnings, including lump-sum payments													
1983											\$12.83	\$12.92	\$13.03
1984	\$13.11	\$12.95	\$13.02	\$13.02	\$12.98	\$12.97	\$13.06	\$13.11	\$13.09	\$13.19	13.26	13.28	13.37
1985	13.40	13.26	13.36	13.33	13.26	13.27	13.33	13.29	13.39	13.48	13.54	13.57	13.68
1986	13.80	13.58	13.64	13.66	13.68	13.60	13.64	13.61	13.63	13.67	14.19	14.31	14.26
1987		14.21	14.25	14.29	14.36	14.42	^P 14.40						

^P = preliminary.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

C-3. Average hourly earnings, excluding overtime,¹ of production workers on manufacturing payrolls

Industry	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Manufacturing	\$9.32	\$9.35	\$9.45	\$9.45	\$9.46
Durable goods	9.85	9.87	9.96	9.97	9.97
Lumber and wood products	8.03	7.94	7.99	8.04	(2)
Furniture and fixtures	7.24	7.24	7.40	7.40	(2)
Stone, clay, and glass products	9.48	9.48	9.66	9.67	(2)
Primary metal industries	11.35	11.38	11.34	11.32	(2)
Fabricated metal products	9.51	9.48	9.54	9.57	(2)
Machinery, except electrical	10.17	10.20	10.25	10.29	(2)
Electrical and electronic equipment	9.28	9.37	9.52	9.50	(2)
Transportation equipment	12.13	12.14	12.23	12.30	(2)
Instruments and related products	9.12	9.22	9.37	9.35	(2)
Miscellaneous manufacturing	7.33	7.40	7.48	7.50	(2)
Nondurable goods	8.57	8.64	8.75	8.73	\$8.77
Food and kindred products	8.34	8.34	8.55	8.47	(2)
Tobacco manufactures	13.48	13.54	13.98	14.78	(2)
Textile mill products	6.54	6.58	6.78	6.77	(2)
Apparel and other textile products	5.71	5.69	5.75	5.79	(2)
Paper and allied products	10.60	10.70	10.77	10.79	(2)
Printing and publishing	9.60	9.65	9.82	9.82	(2)
Chemicals and allied products	11.46	11.53	11.77	11.74	(2)
Petroleum and coal products	13.45	13.44	13.70	13.65	(2)
Rubber and misc. plastics products	8.34	8.42	8.45	8.45	(2)
Leather and leather products	5.79	5.81	5.89	5.85	(2)

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

² Not available.

^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 forward are subject to revision.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	Average hourly earnings					Average weekly earnings				
	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p	June 1986	July 1986	May 1987	June 1987 ^p	July 1987 ^p
Total private:										
Current dollars	\$8.72	\$8.70	\$8.93	\$8.92	\$8.91	\$304.33	\$303.63	\$310.76	\$312.20	\$311.85
Constant (1977) dollars	4.90	4.89	4.86	4.83	(²)	170.97	170.67	169.17	169.21	(²)
Mining:										
Current dollars	12.49	12.49	12.42	12.44	\$12.34	523.33	517.09	526.61	527.46	\$526.92
Constant (1977) dollars	7.02	7.02	6.76	6.74	(²)	294.01	290.66	286.67	285.89	(²)
Construction:										
Current dollars	12.34	12.34	12.60	12.62	\$12.59	466.45	471.39	485.10	480.82	\$484.72
Constant (1977) dollars	6.93	6.94	6.86	6.84	(²)	262.05	264.97	264.07	260.61	(²)
Manufacturing:										
Current dollars	9.71	9.74	9.87	9.88	\$9.88	396.17	391.55	403.68	406.07	\$401.13
Constant (1977) dollars	5.46	5.47	5.37	5.36	(²)	222.57	220.10	219.75	220.09	(²)
Transportation and public utilities:										
Current dollars	11.63	11.67	11.95	11.95	\$11.99	458.22	459.80	466.05	469.64	\$471.21
Constant (1977) dollars	6.53	6.56	6.51	6.48	(²)	257.43	258.46	253.70	254.55	(²)
Wholesale trade:										
Current dollars	9.33	9.30	9.57	9.56	\$9.57	359.21	358.05	366.53	367.10	\$365.57
Constant (1977) dollars	5.24	5.23	5.21	5.18	(²)	201.80	201.26	199.53	198.97	(²)
Retail trade:										
Current dollars	6.00	5.98	6.09	6.07	\$6.07	177.00	178.80	178.44	179.67	\$182.10
Constant (1977) dollars	3.37	3.36	3.32	3.29	(²)	99.44	100.51	97.14	97.38	(²)
Finance, insurance, and real estate:										
Current dollars	8.37	8.30	8.72	8.65	\$8.63	305.51	301.29	316.54	314.86	\$310.68
Constant (1977) dollars	4.70	4.67	4.75	4.69	(²)	171.63	169.36	172.31	170.66	(²)
Services:										
Current dollars	8.10	8.04	8.38	8.35	\$8.34	264.06	263.71	271.51	272.21	\$272.72
Constant (1977) dollars	4.55	4.52	4.56	4.53	(²)	148.35	148.23	147.80	147.54	(²)

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

² Not available.

^p = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced all unadjusted data from April 1986 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

C-5. Average weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

Industry	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^p	July ^p
Total private	34.7	34.7	34.7	34.7	34.8	34.6	34.7	34.9	34.8	34.7	34.9	34.8	34.7
Mining	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Construction	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Manufacturing	40.6	40.8	40.8	40.7	40.8	40.8	40.9	41.1	40.9	40.6	41.0	41.0	41.0
<i>Overtime hours</i>	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.5	3.8	3.7	3.8
Durable goods	41.2	41.4	41.4	41.3	41.4	41.4	41.6	41.7	41.5	41.2	41.6	41.5	41.6
<i>Overtime hours</i>	3.5	3.6	3.6	3.5	3.5	3.6	3.7	3.7	3.7	3.6	3.9	3.8	3.8
Lumber and wood products	40.4	40.2	40.3	40.4	40.8	40.6	40.8	41.3	40.9	40.6	41.0	40.5	40.4
Furniture and fixtures	39.7	39.9	40.0	39.9	39.8	39.9	40.2	40.2	40.0	39.1	39.9	40.0	40.1
Stone, clay, and glass products	42.1	42.3	42.4	42.3	41.9	42.2	42.5	42.8	42.5	41.9	42.3	42.1	42.3
Primary metal industries	41.4	42.0	42.1	42.3	42.4	42.5	42.6	42.6	42.6	42.3	43.1	43.1	43.3
Blast furnaces and basic steel products ..	41.5	41.7	41.9	42.4	42.5	42.6	42.7	42.3	42.3	42.4	43.3	43.5	43.8
Fabricated metal products	41.1	41.3	41.5	41.3	41.4	41.2	41.6	41.6	41.5	41.2	41.6	41.5	41.5
Machinery, except electrical	41.3	41.6	41.7	41.7	41.7	41.7	42.0	42.2	42.0	41.8	42.2	42.2	42.4
Electrical and electronic equipment	41.1	41.1	41.2	41.0	41.0	41.0	41.0	41.1	40.9	40.6	40.8	41.1	41.1
Transportation equipment	42.2	42.4	42.4	42.1	42.2	42.1	42.3	42.5	42.3	41.9	42.2	41.9	41.8
Motor vehicles and equipment	42.5	42.5	42.7	42.1	42.4	42.4	42.9	43.0	42.9	42.1	42.5	42.0	42.0
Instruments and related products	40.7	40.9	40.7	40.9	41.1	41.1	41.2	41.3	41.3	41.0	41.5	41.6	41.6
Miscellaneous manufacturing	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Nondurable goods	39.8	40.0	39.9	39.9	40.0	40.0	40.1	40.3	40.1	39.7	40.2	40.3	40.2
<i>Overtime hours</i>	3.4	3.4	3.3	3.4	3.5	3.5	3.5	3.5	3.5	3.3	3.7	3.6	3.7
Food and kindred products	39.9	40.2	39.8	39.8	40.0	39.8	40.0	40.1	40.0	39.8	40.1	40.2	39.9
Tobacco manufactures	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Textile mill products	41.0	41.2	41.4	41.4	41.4	41.6	41.6	42.0	42.1	41.4	42.0	42.0	42.8
Apparel and other textile products	36.6	36.6	36.8	36.8	36.9	37.0	37.0	37.4	37.0	36.1	37.2	37.2	37.2
Paper and allied products	43.2	43.4	42.9	43.1	43.2	43.2	43.4	43.3	43.0	43.0	43.5	43.3	43.2
Printing and publishing	38.0	38.0	38.0	38.0	38.0	38.0	37.9	38.1	37.9	37.7	37.9	38.1	38.0
Chemicals and allied products	41.8	42.0	41.8	42.0	42.3	42.1	42.2	42.2	42.0	42.2	42.1	42.0	42.4
Petroleum and coal products	43.7	44.2	43.5	43.7	43.8	43.6	44.6	44.0	44.1	43.9	44.3	43.6	44.1
Rubber and misc. plastics products	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Leather and leather products	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Transportation and public utilities	39.2	39.1	39.1	39.1	39.2	38.9	39.0	39.2	39.0	39.0	39.2	39.0	39.1
Wholesale trade	38.3	38.4	38.2	38.3	38.3	38.2	38.3	38.3	38.1	38.2	38.3	38.2	38.0
Retail trade	29.2	29.2	29.1	29.1	29.2	28.9	29.0	29.3	29.3	29.5	29.4	29.2	29.3
Finance, insurance, and real estate	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Services	32.5	32.4	32.4	32.4	32.5	32.4	32.4	32.6	32.5	32.4	32.5	32.5	32.4

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

² These series are not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular

components and consequently cannot be separated with sufficient precision.
^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

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

(1977 = 100)

Industry	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^p	July ^p
Total private	117.3	117.6	117.6	117.7	118.2	117.9	118.7	119.7	119.6	119.6	120.2	120.0	120.3
Goods-producing	97.2	97.8	97.8	97.6	97.8	97.8	98.8	99.3	98.9	98.0	99.2	99.0	99.5
Mining	83.6	82.6	80.7	81.0	79.5	79.5	78.9	79.9	80.0	81.3	83.4	83.2	85.6
Construction	130.5	132.0	132.3	131.6	131.1	130.7	136.2	136.2	135.5	132.8	134.3	132.7	133.1
Manufacturing	91.4	91.9	91.9	91.8	92.2	92.3	92.5	93.1	92.8	92.1	93.1	93.2	93.7
Durable goods	89.3	89.9	89.8	89.5	89.8	89.8	90.0	90.6	90.2	89.6	90.5	90.5	90.7
Lumber and wood products	97.1	97.9	98.7	99.2	100.9	101.0	101.5	103.3	102.5	102.0	103.2	101.5	102.4
Furniture and fixtures	105.7	106.5	107.1	106.8	106.3	106.5	107.9	107.9	107.9	105.7	109.0	109.2	111.9
Stone, clay, and glass products	86.1	86.3	86.7	86.1	85.5	86.5	87.3	88.3	87.5	86.3	86.9	86.3	86.3
Primary metal industries	60.8	60.6	60.4	60.7	60.9	61.1	60.4	61.2	61.9	62.1	63.1	63.5	63.9
Blast furnaces and basic steel products	50.7	47.9	46.6	47.7	47.1	46.9	46.1	46.8	47.7	49.6	50.7	51.4	51.5
Fabricated metal products	87.7	88.4	88.9	88.3	88.5	88.3	89.1	89.1	88.9	88.4	89.0	89.1	89.5
Machinery, except electrical	85.6	86.0	85.0	84.4	84.1	83.8	84.2	85.1	84.7	84.8	86.0	86.5	87.5
Electrical and electronic equipment	101.2	101.3	101.3	100.8	101.1	101.5	100.8	100.8	99.9	99.0	99.4	100.0	100.8
Transportation equipment	96.0	97.5	97.5	96.8	97.9	97.2	97.5	98.9	98.2	96.6	97.3	96.8	94.1
Motor vehicles and equipment	85.3	86.8	87.1	84.9	87.0	86.3	87.5	89.0	88.0	85.6	86.1	85.5	80.6
Instruments and related products	101.3	102.1	101.9	101.8	102.1	102.1	101.8	102.0	101.7	101.0	102.0	102.5	103.0
Miscellaneous manufacturing	79.7	79.7	79.3	79.0	80.2	81.0	81.0	81.1	81.1	79.9	81.0	81.6	82.2
Nondurable goods	94.6	95.0	95.0	95.3	95.8	96.0	96.3	96.7	96.5	95.7	97.0	97.2	98.1
Food and kindred products	97.7	98.3	97.6	97.6	98.7	98.5	98.8	99.3	99.4	99.3	99.6	99.5	100.0
Tobacco manufactures	78.6	72.8	76.5	76.9	76.7	75.9	76.3	76.0	77.7	77.3	80.1	76.3	73.1
Textile mill products	78.2	78.8	79.2	79.6	80.1	80.8	81.2	82.3	82.9	81.3	82.9	83.3	85.9
Apparel and other textile products	84.6	84.6	85.0	85.1	85.2	86.3	85.8	86.1	85.3	83.5	85.8	86.1	87.7
Paper and allied products	99.2	99.2	98.9	99.7	100.1	100.5	100.6	100.6	99.7	99.5	100.5	100.0	100.1
Printing and publishing	128.0	128.1	128.4	128.9	129.1	129.4	129.5	130.2	129.4	128.7	130.0	131.1	131.1
Chemicals and allied products	92.5	93.1	92.5	92.8	93.4	92.7	93.2	93.4	93.1	93.4	93.7	93.9	94.8
Petroleum and coal products	82.6	83.5	81.4	81.8	82.0	81.6	84.3	83.1	83.3	82.9	84.5	83.9	84.9
Rubber and misc. plastics products	108.9	110.7	111.6	112.0	112.4	112.7	112.9	113.5	113.5	112.6	114.5	114.8	114.7
Leather and leather products	55.5	55.8	55.2	55.4	55.5	56.7	57.4	57.8	57.8	57.4	59.5	59.8	61.1
Service-producing	128.4	128.6	128.5	128.8	129.6	129.0	129.8	131.0	131.0	131.5	131.9	131.7	131.7
Transportation and public utilities	105.8	104.8	106.1	106.1	107.0	106.5	107.0	107.8	107.7	107.9	108.5	108.2	108.3
Wholesale trade	117.1	117.5	116.8	116.9	116.8	116.4	117.1	117.4	116.9	117.4	117.7	117.6	117.1
Retail trade	118.3	118.6	118.4	118.6	119.2	118.0	118.9	120.4	120.3	121.6	121.2	120.3	121.2
Finance, insurance, and real estate	137.3	138.6	137.8	139.0	140.3	139.8	140.4	141.0	141.5	142.0	142.5	142.5	141.2
Services	146.5	146.5	146.7	146.9	147.9	147.8	148.6	150.1	150.2	150.3	151.2	151.5	151.5

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

^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

**ESTABLISHMENT DATA
EARNINGS
SEASONALLY ADJUSTED**

C-7. The Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, seasonally adjusted

Industry	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^p	July ^p
Hourly Earnings Index ² (1977=100)													
Total private (in current dollars)	169.1	169.5	169.8	170.2	171.2	171.1	171.2	171.8	172.2	172.6	172.9	172.9	173.2
Mining	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Construction	151.5	152.0	151.9	153.2	154.7	154.3	152.8	152.4	153.8	153.7	154.1	155.1	154.7
Manufacturing	172.4	172.7	172.7	173.0	173.2	173.4	173.4	173.7	174.3	175.0	174.4	174.8	174.9
Transportation and public utilities	171.0	171.2	171.7	171.9	172.9	173.5	173.6	174.3	174.6	175.2	176.2	175.9	176.2
Wholesale trade	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Retail trade	158.1	158.6	159.0	159.3	159.3	159.3	158.9	158.9	159.0	159.8	160.2	160.2	160.9
Finance, insurance, and real estate	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Services	174.0	174.6	174.7	175.7	177.1	176.6	177.5	178.4	179.0	179.4	179.9	179.8	180.5
Total private (in constant dollars) ⁴	95.1	95.2	95.0	95.1	95.5	95.3	94.7	94.6	94.4	94.2	94.0	93.8	(^q)
Average hourly earnings													
Total private	\$8.74	\$8.77	\$8.78	\$8.82	\$8.86	\$8.84	\$8.86	\$8.88	\$8.91	\$8.91	\$8.95	\$8.94	\$8.96
Mining	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Construction	\$12.44	\$12.48	\$12.48	\$12.57	\$12.70	\$12.65	\$12.51	\$12.48	\$12.62	\$12.61	\$12.65	\$12.73	\$12.69
Manufacturing	9.74	9.75	9.75	9.77	9.78	9.79	9.79	9.81	9.83	9.86	9.88	9.89	9.88
Transportation and public utilities	11.70	11.71	11.73	11.77	11.82	11.83	11.86	11.89	11.92	11.96	12.05	12.01	12.03
Wholesale trade	9.32	9.37	9.35	9.40	9.48	9.42	9.47	9.50	9.53	9.52	9.59	9.57	9.59
Retail trade	6.02	6.03	6.05	6.06	6.07	6.09	6.05	6.04	6.05	6.08	6.09	6.09	6.11
Finance, insurance, and real estate	8.35	8.41	8.39	8.43	8.59	8.46	8.59	8.66	8.67	8.69	8.74	8.65	8.68
Services	8.14	8.17	8.18	8.22	8.29	8.25	8.30	8.35	8.38	8.39	8.41	8.40	8.45
Average weekly earnings													
Total private:													
In current dollars	303.28	304.32	304.67	306.05	308.33	305.86	307.44	309.91	310.07	309.18	312.36	311.11	310.91
In constant (1977) dollars ⁴	170.57	170.97	170.59	171.07	171.96	170.40	170.04	170.75	170.09	168.77	170.01	168.71	(^q)

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

² Excludes the effects of two types of changes that are unrelated to underlying wage rate movements: Fluctuations in overtime in manufacturing and interindustry employment shifts.

³ These series are not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular

components and consequently cannot be separated with sufficient precision.

⁴ The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate these series.

⁵ Not available.

^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

**ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Alabama	41.2	41.1	41.4	\$8.61	\$8.72	\$8.74	\$354.73	\$358.39	\$361.84
Birmingham	41.0	40.2	40.1	8.83	8.94	8.97	362.03	359.39	359.70
Mobile	41.4	41.9	40.8	10.19	10.02	10.01	421.87	419.84	408.41
Alaska	38.4	42.7	41.9	12.12	10.82	10.88	465.41	462.01	455.87
Arizona	41.2	41.0	40.8	9.77	9.92	9.93	402.52	406.72	405.14
Arkansas	40.7	40.8	41.4	7.68	7.94	7.89	312.58	323.95	326.85
Fayetteville-Springdale	40.4	40.8	39.5	6.91	7.21	7.06	279.18	294.17	278.87
Fort Smith	40.5	40.1	41.1	8.10	8.25	8.28	328.05	330.83	340.31
Little Rock-North Little Rock	40.0	41.3	41.8	8.14	8.37	8.27	325.60	345.68	345.89
Pine Bluff	43.6	42.4	43.5	9.81	10.62	10.42	427.72	450.29	453.27
California	40.3	40.5	40.4	10.31	10.69	10.84	415.49	432.95	437.94
Colorado	40.3	40.5	40.3	9.72	10.05	10.03	391.72	407.03	404.21
Denver	40.0	42.5	41.8	10.60	10.72	10.72	424.00	455.60	448.10
Connecticut	41.9	41.8	41.9	10.04	10.32	10.37	420.88	431.38	434.50
Bridgeport-Milford	41.4	42.2	42.2	10.31	10.83	10.77	426.83	457.03	454.49
Hartford	41.7	41.5	42.1	10.26	10.63	10.69	427.84	441.15	450.05
New Britain	41.6	43.3	43.4	10.52	10.89	10.79	437.83	462.88	468.29
New Haven-Meriden	40.7	40.6	40.7	9.58	10.05	10.10	389.91	408.03	411.07
Stamford	40.8	40.3	40.6	10.81	11.28	11.43	441.05	454.58	464.06
Waterbury	42.5	42.7	42.8	8.36	8.87	8.99	355.30	378.75	384.77
Delaware	41.7	41.6	40.6	9.96	10.45	10.53	415.33	434.72	427.52
Wilmington	42.2	41.7	41.9	11.81	12.40	12.36	498.38	517.08	517.88
District of Columbia:									
Washington MSA	38.1	39.4	38.8	10.25	10.76	10.79	390.53	423.94	418.85
Florida	41.0	40.6	40.8	7.92	8.08	8.14	324.72	328.05	332.11
Fort Lauderdale-Hollywood-Pompano Beach	41.5	42.2	42.2	7.74	8.09	8.15	321.21	341.40	343.93
Jacksonville	42.2	40.5	40.6	8.61	8.80	8.73	363.34	358.40	354.44
Lakeland-Winter Haven	39.0	42.3	41.3	7.78	7.82	7.95	303.42	330.79	328.34
Miami-Hialeah	39.3	38.7	39.2	8.97	7.08	7.16	273.92	274.00	280.67
Orlando	42.1	40.2	40.5	8.30	8.42	8.53	349.43	338.48	345.47
Pensacola	42.8	41.1	41.8	9.81	10.00	10.08	419.87	411.00	421.34
Tampa-St. Petersburg-Clearwater	40.5	40.3	40.4	7.49	7.66	7.74	303.35	308.70	312.70
West Palm Beach-Boca Raton-DeLray Beach	39.6	39.6	40.9	8.44	9.34	9.28	334.22	369.66	379.55
Georgia	41.1	41.6	42.2	8.29	8.39	8.42	340.72	349.02	355.32
Atlanta	40.6	41.6	42.2	10.18	9.97	10.02	413.31	414.75	422.84
Savannah	45.5	44.8	46.0	10.67	10.88	10.97	485.49	487.42	504.62
Hawaii	38.4	39.5	38.1	8.54	9.28	9.29	327.94	366.56	353.95
Honolulu	39.0	39.8	38.3	8.59	9.29	9.42	335.01	369.74	360.79
Idaho	38.7	38.9	38.7	9.77	9.45	10.18	378.10	367.61	393.97
Illinois	41.0	41.4	41.6	10.69	10.86	10.89	438.29	449.60	453.02
Aurora-Elgin	40.2	42.2	42.6	9.93	10.32	10.36	399.19	435.50	441.34
Bloomington-Normal	40.7	40.3	41.9	10.91	10.74	10.81	444.04	432.82	452.94
Champaign-Urbana-Rantoul	39.1	40.7	40.6	8.85	8.97	9.01	346.04	365.08	365.81
Chicago	41.8	41.7	41.9	10.51	10.58	10.61	439.32	441.19	444.56
Davenport-Rock Island-Moline	40.0	40.0	39.8	12.72	12.85	12.84	508.80	514.00	511.03
Decatur	40.9	41.8	41.1	13.72	13.76	13.87	561.15	575.17	570.06
Joliet	41.4	42.4	42.3	11.58	11.73	11.81	479.41	497.35	499.56
Kankakee	40.0	38.4	38.4	10.30	9.90	9.82	412.00	380.16	377.09
Lake County	41.8	39.3	39.3	10.42	10.80	10.82	435.56	424.44	425.23
Peoria	42.1	42.7	44.3	12.92	12.88	13.06	543.93	549.98	578.56
Rockford	41.9	42.2	41.9	10.93	10.90	11.05	457.97	459.98	463.00
Springfield	42.2	41.7	42.2	11.37	11.53	11.54	479.81	480.80	486.89

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED

C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	June 1988	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Indiana	41.5	41.7	41.8	\$10.76	\$11.01	\$11.01	\$446.54	\$459.12	\$460.22
Iowa	40.1	41.3	41.4	10.40	10.52	10.61	417.04	434.48	439.25
Cedar Rapids	40.2	40.1	40.0	11.53	11.31	12.07	463.51	453.53	482.80
Des Moines	37.9	41.8	40.2	11.21	11.66	11.39	424.86	487.39	457.88
Dubuque	39.7	42.2	42.9	11.79	12.31	12.42	468.06	519.48	532.82
Sioux City	42.5	39.2	38.3	8.59	8.31	8.17	365.08	325.75	312.91
Kansas	40.5	41.0	41.3	9.64	9.97	9.87	390.42	408.77	407.63
Topeka	40.8	43.2	41.7	10.88	10.71	10.89	443.90	462.67	445.77
Wichita	38.4	39.7	41.0	10.18	11.05	10.99	390.14	438.69	450.59
Kentucky	39.0	40.3	40.3	9.85	10.07	10.09	384.15	405.82	406.83
Lexington-Fayette	36.9	37.8	37.6	10.26	10.82	10.99	378.59	409.00	413.22
Louisville	40.9	41.8	41.5	10.77	11.21	11.31	440.49	488.58	489.37
Louisiana	41.4	41.8	41.6	10.61	10.88	10.83	439.25	454.78	450.53
Baton Rouge	41.8	41.6	42.4	12.49	12.50	12.41	522.08	520.00	526.18
New Orleans	39.9	40.9	40.3	10.64	10.68	10.51	424.54	436.81	423.55
Shreveport	39.9	38.6	38.6	11.07	11.23	11.56	441.69	433.48	446.22
Maine	40.8	41.6	41.7	8.55	8.69	8.73	348.84	361.50	364.04
Lewiston-Auburn	39.1	40.3	42.0	7.27	7.30	7.31	284.26	294.19	307.02
Portland	39.3	40.5	39.1	9.07	9.18	9.14	356.45	371.79	357.37
Maryland	40.6	40.7	40.4	9.88	10.06	9.86	401.13	409.44	398.34
Baltimore MSA	41.1	42.3	41.2	10.44	10.79	10.67	429.09	456.42	439.60
Massachusetts	41.3	41.0	41.3	9.18	9.67	9.71	379.13	396.47	401.02
Boston	40.7	40.6	40.8	10.10	10.85	10.65	411.07	432.39	434.52
Springfield	42.7	42.1	42.2	8.97	9.14	9.17	383.02	384.79	386.97
Worcester	41.1	41.3	41.3	9.41	9.62	9.63	386.75	397.31	397.72
Michigan	42.3	42.0	41.9	12.78	12.88	12.92	540.59	540.96	541.35
Ann Arbor	44.2	43.9	44.5	13.64	13.94	13.98	602.89	611.97	622.11
Battle Creek	42.5	43.0	43.5	13.33	13.69	14.03	566.52	588.67	610.30
Detroit	43.3	43.0	42.9	13.73	13.79	13.83	594.51	592.97	593.31
Flint	43.1	42.9	41.4	14.63	14.90	15.16	630.55	639.21	627.62
Grand Rapids	40.3	39.5	39.9	10.74	11.11	11.17	432.82	438.84	445.68
Jackson	41.2	42.1	42.2	10.31	10.02	10.16	424.77	421.84	428.75
Kalamazoo	42.3	42.1	42.4	11.88	11.90	12.03	502.52	500.99	510.07
Lansing-East Lansing	41.8	42.8	42.8	14.23	14.03	14.09	594.81	600.48	603.05
Muskegon	40.1	41.0	40.3	11.42	11.43	11.65	457.94	468.63	469.49
Saginaw-Bay City-Midland	43.5	42.9	43.0	13.96	14.41	14.36	607.26	618.19	617.48
Minnesota	40.7	40.4	40.9	10.24	10.48	10.42	416.77	423.39	426.18
Duluth	40.2	38.9	39.3	10.69	10.88	10.73	429.74	423.23	421.69
Minneapolis-St. Paul	41.2	40.9	41.2	11.03	11.18	11.10	454.44	457.26	457.32
St. Cloud	39.7	39.0	38.4	9.48	9.05	9.44	376.36	352.95	362.50
Mississippi	40.5	39.9	40.2	7.45	7.55	7.57	301.73	301.25	304.31
Jackson	40.5	40.0	40.2	8.26	8.43	8.61	334.53	337.20	346.12
Missouri	40.5	40.7	40.6	9.76	9.73	9.81	395.28	396.01	398.29
Kansas City	40.7	40.2	40.5	11.04	10.92	10.99	449.33	438.98	445.10
St. Joseph	41.1	39.1	41.0	9.29	9.79	10.32	381.82	382.79	423.12
St. Louis	40.1	41.2	40.8	11.22	11.42	11.56	449.92	470.50	471.85
Springfield	41.9	39.1	39.9	8.94	8.69	8.69	374.59	339.78	346.73
Montana	39.0	39.5	39.5	11.23	10.74	10.68	437.97	424.23	421.86
Nebraska	41.3	40.0	40.0	9.26	9.31	9.25	382.44	372.40	370.00
Lincoln	40.1	39.7	39.9	9.42	9.76	9.71	377.74	387.47	387.43
Omaha	42.3	40.1	40.2	9.71	9.99	9.91	410.73	400.60	398.38
Nevada	39.6	40.5	41.0	9.35	9.75	9.75	370.26	394.88	399.75
Las Vegas	39.6	40.5	41.3	11.03	11.86	11.91	436.79	480.33	491.88

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
New Hampshire	41.3	41.0	41.1	\$8.78	\$9.20	\$9.26	\$361.79	\$377.20	\$380.59
Nashua	41.4	42.2	42.5	10.29	11.34	11.34	426.01	478.55	481.95
New Jersey	41.3	41.0	41.1	10.16	10.42	10.45	419.81	427.22	429.50
New Mexico	39.3	41.0	39.7	8.85	8.87	8.79	347.81	355.47	348.96
Albuquerque	39.1	41.5	41.0	8.88	8.98	8.97	347.21	372.67	367.77
New York	39.8	39.7	40.0	9.90	10.02	9.97	394.02	397.79	398.80
Albany-Schenectady-Troy	40.7	39.8	39.9	10.27	10.44	10.46	417.99	415.51	417.35
Binghamton	40.8	39.8	40.8	8.89	9.11	8.94	360.93	362.58	362.96
Buffalo	42.0	40.8	41.2	12.23	11.94	11.83	513.66	487.15	487.40
Elmira	41.4	40.7	42.5	9.39	9.33	9.43	388.75	379.73	400.78
Glens Falls	39.9	(¹)	(¹)	9.65	(¹)	(¹)	385.04	(¹)	(¹)
Nassau-Suffolk	40.3	40.1	40.4	10.03	10.89	10.61	404.21	428.67	428.64
New York PMSA	37.2	37.7	37.6	9.14	9.40	9.36	340.01	354.38	351.94
New York City	36.7	37.4	37.3	9.00	9.33	9.29	330.30	348.94	346.52
Niagara Falls	41.1	40.7	40.9	12.81	12.68	12.78	526.49	516.08	522.70
Orange County	39.7	38.5	38.2	7.98	7.93	7.88	316.81	305.31	301.02
Poughkeepsie	42.2	42.6	41.6	9.09	9.23	9.34	383.60	393.20	388.54
Rochester	41.2	40.9	42.2	11.94	11.97	11.71	491.93	489.57	494.16
Rockland County	40.5	39.5	39.7	9.72	10.22	10.34	393.66	403.69	410.50
Syracuse	41.1	40.3	41.4	11.26	11.03	11.04	462.79	444.51	457.06
Utica-Rome	41.0	41.2	41.7	9.34	9.54	9.69	382.94	393.05	404.07
Westchester County	39.9	39.8	40.5	9.97	9.69	9.58	397.80	365.66	387.99
North Carolina	40.7	41.1	41.5	7.49	7.78	7.82	304.84	319.76	324.53
Asheville	41.0	42.0	42.3	7.61	7.79	7.77	312.01	327.18	328.67
Charlotte-Gastonia-Rock Hill	41.3	42.5	42.9	7.67	8.03	8.02	316.77	341.28	344.06
Greensboro-Winston-Salem-High Point	40.3	41.0	41.1	8.27	8.65	8.77	333.28	354.65	360.45
Raleigh-Durham	41.5	41.6	42.1	6.63	6.80	6.88	358.15	367.84	373.85
North Dakota	36.2	40.2	36.4	6.18	8.46	8.46	312.48	340.09	324.86
Fargo-Moorhead	37.1	37.8	37.1	8.57	6.46	8.44	317.95	319.79	313.12
Ohio	41.9	42.5	42.5	11.50	11.71	11.71	481.85	497.66	497.66
Akron	43.9	43.0	42.6	11.21	11.33	11.27	492.12	487.19	480.10
Canton	39.9	42.7	42.0	11.20	11.39	11.33	446.88	486.35	475.86
Cincinnati	41.7	42.3	43.0	10.84	11.02	10.93	443.69	466.15	469.99
Cleveland	42.1	42.7	42.9	11.41	11.55	11.57	480.36	493.19	496.35
Columbus	41.0	41.6	41.5	11.23	11.40	11.41	460.43	474.24	473.52
Dayton-Springfield	43.1	41.4	42.0	12.02	11.74	11.86	518.06	486.04	498.12
Toledo	42.2	41.9	41.5	12.42	12.71	12.72	524.12	532.55	527.68
Youngstown-Warren	41.0	42.7	42.7	13.17	13.25	13.27	539.97	565.78	566.63
Oklahoma	41.3	41.2	41.0	9.70	9.98	10.02	400.61	411.18	410.82
Oklahoma City	40.1	40.8	40.9	10.81	11.11	11.14	433.48	453.29	455.63
Tulsa	39.3	40.8	40.3	10.52	10.61	10.50	413.44	432.89	423.15
Oregon	39.0	40.3	39.5	10.75	10.62	10.63	419.25	427.99	419.89
Eugene-Springfield	40.6	41.2	39.9	11.34	10.53	10.79	460.40	433.84	430.52
Portland	39.2	39.9	39.5	10.94	10.83	10.78	428.85	432.12	425.81
Salem	38.5	38.7	40.1	9.43	9.59	9.04	363.06	371.13	362.50

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED

C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	June 1986	May 1987	June 1987 ^P	June 1988	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Pennsylvania	40.3	40.7	41.1	\$9.70	\$9.92	\$9.94	\$390.91	\$403.74	\$408.53
Allentown-Bethlehem	39.2	39.2	39.6	10.26	10.44	10.39	402.19	409.25	411.44
Altoona	39.0	39.4	40.5	8.50	8.65	8.66	331.50	340.81	350.73
Beaver County	42.5	41.9	42.4	11.87	11.13	11.16	504.48	466.35	473.18
Erie	41.8	41.8	42.0	10.18	10.17	10.22	425.52	425.11	429.24
Harrisburg-Lebanon-Carlisle	40.0	39.7	39.7	9.17	9.32	9.31	366.80	370.00	369.61
Johnstown	38.3	38.8	39.7	8.22	8.42	8.40	314.83	326.70	333.48
Lancaster	39.8	40.0	40.8	9.41	9.66	9.75	374.52	386.40	397.80
Philadelphia PMSA	40.1	40.5	41.0	10.38	10.73	10.80	418.24	434.57	442.80
Pittsburgh	41.2	41.9	42.5	11.06	11.16	11.20	455.67	467.60	476.00
Reading	40.4	40.7	40.9	9.87	10.00	10.02	398.75	407.00	409.82
Scranton-Wilkes-Barre	38.7	38.4	39.3	8.62	8.68	8.66	333.59	333.31	340.34
Sharon	40.9	41.5	42.6	11.00	11.29	11.26	449.90	468.54	479.66
State College	38.9	39.4	39.6	8.10	8.11	8.11	315.09	319.53	321.16
Williamsport	40.5	42.0	42.6	8.50	8.51	8.53	344.25	357.42	363.38
York	41.5	42.8	42.6	9.18	9.42	9.40	380.97	403.18	400.44
Rhode Island	40.7	40.2	40.4	7.91	8.20	8.21	321.94	329.64	331.68
Pawtucket-Woonsocket-Attleboro	40.4	40.3	40.4	7.42	7.66	7.69	299.77	308.70	310.66
Providence	40.2	39.9	40.2	7.94	8.15	8.17	319.19	325.19	328.43
South Carolina	40.8	41.6	41.9	7.90	8.06	8.08	322.32	335.30	338.55
Charleston	42.3	41.5	41.9	9.20	8.98	8.99	389.16	372.67	376.68
Columbia	40.1	40.7	41.5	7.73	7.65	7.86	309.97	319.50	326.19
Greenville-Spartanburg	41.1	41.5	41.9	7.73	7.97	7.99	317.70	330.76	334.78
South Dakota	41.6	40.8	41.3	7.73	7.72	7.85	321.57	314.98	324.21
Sioux Falls	45.8	41.5	42.0	7.91	7.31	7.72	362.26	303.37	324.24
Tennessee	41.3	41.3	41.7	8.49	8.62	8.79	350.64	364.27	366.54
Chattanooga	42.9	41.0	41.5	7.69	7.91	7.98	329.90	324.31	331.17
Johnson City-Kingsport-Bristol	43.3	42.6	43.6	9.04	9.02	9.03	391.43	366.06	393.71
Knoxville	39.0	39.7	40.2	8.54	8.10	8.95	333.06	361.27	359.79
Memphis	44.2	41.5	41.4	6.66	8.85	8.78	383.66	367.28	363.49
Nashville	39.1	40.2	41.3	9.58	10.05	10.10	374.58	404.01	417.13
Texas	41.4	41.6	41.4	9.63	9.68	9.62	398.68	410.10	406.55
Dallas	42.0	41.7	41.5	9.44	9.65	9.69	396.48	402.41	402.14
Ft. Worth-Arlington	42.0	41.6	42.0	9.65	9.85	9.56	405.30	409.76	401.52
Houston	41.6	43.6	43.4	11.18	11.11	11.13	465.09	484.40	483.04
San Antonio	40.5	40.1	39.7	7.41	7.72	7.74	300.11	309.57	307.28
Utah	39.5	39.7	39.4	10.19	9.91	9.87	402.51	393.43	388.88
Salt Lake City-Ogden	40.1	40.5	39.9	9.93	9.92	9.89	398.19	401.76	394.61
Vermont	40.8	40.4	40.8	8.75	9.07	9.11	357.00	366.43	371.69
Burlington	41.8	40.6	40.9	9.55	9.95	9.92	399.19	403.97	405.73
Virginia	40.3	41.0	40.8	8.81	8.99	9.06	355.04	368.59	369.65
Bristol	40.6	39.4	39.6	7.49	7.61	7.64	304.09	299.83	302.54
Charlottesville	41.4	40.8	41.4	7.53	7.59	7.57	311.74	309.67	313.40
Darville	40.9	44.0	44.1	8.24	8.36	8.30	337.02	367.84	366.03
Lynchburg	40.0	40.9	41.4	8.37	8.48	8.46	334.80	346.83	350.24
Northern Virginia	41.0	40.4	40.3	9.33	9.81	9.94	382.53	396.32	400.58
Richmond-Petersburg	40.4	41.6	40.8	11.04	11.57	11.65	446.02	481.31	475.32
Roanoke	40.2	40.7	40.6	8.37	8.75	8.74	336.47	356.13	354.84

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED**

C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Washington	39.4	39.9	40.2	\$11.80	\$11.63	\$11.63	\$464.92	\$464.04	\$467.53
West Virginia	40.4	40.5	40.4	10.34	10.67	10.76	417.74	432.14	434.70
Charleston	42.3	44.1	43.2	12.88	12.62	12.90	544.82	556.54	557.28
Huntington-Ashland	39.5	38.9	39.8	12.05	12.17	12.17	475.98	473.41	484.37
Parkersburg-Marietta	41.8	40.6	42.2	12.20	12.23	12.26	509.96	496.54	517.37
Wheeling	40.9	40.9	41.3	11.55	11.38	11.61	472.40	465.44	479.49
Wisconsin	41.0	41.2	41.4	10.29	10.59	10.48	421.89	436.31	433.87
Appleton-Oshkosh	42.2	42.6	42.7	10.16	10.90	10.79	428.75	464.34	460.73
Eau Claire	40.8	40.3	41.8	10.29	10.68	10.79	419.83	430.40	451.02
Green Bay	41.7	41.6	41.2	11.16	11.42	11.28	465.37	475.07	464.74
Janesville-Beloit	38.1	38.4	38.8	11.69	12.36	12.18	445.39	474.62	472.58
Kenosha	40.9	43.0	44.2	11.17	12.84	12.83	456.85	552.12	567.09
La Crosse	39.0	39.5	39.4	9.45	9.34	9.31	368.55	368.93	366.81
Madison	40.1	40.1	40.9	9.77	10.02	9.85	391.78	401.80	402.87
Milwaukee	40.9	41.1	41.2	11.53	11.65	11.58	471.58	478.82	477.10
Racine	41.2	40.0	40.6	10.86	11.23	11.16	447.43	449.20	453.10
Sheboygan	39.7	41.0	41.7	9.39	9.77	9.50	372.78	400.57	396.15
Wausau	41.5	42.5	43.3	9.74	9.85	9.90	404.21	418.63	428.67
Wyoming	38.9	39.7	39.2	9.77	9.68	9.39	380.05	384.30	368.09
Puerto Rico ..	38.8	39.3	39.7	5.25	5.39	5.42	203.70	211.83	215.17
Virgin Islands	42.5	42.1	42.3	9.96	9.53	10.06	423.30	401.21	425.54

¹ Not available.

^P = preliminary.

NOTE: Area definitions are published annually in the May issue of this

publication. All State and area data have been adjusted to March 1986 benchmarks.

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

C-9. Hours of wage and salary workers in nonagricultural establishments by major industry, seasonally adjusted

Industry	Millions of hours (annual rate) ¹			Percent change		
	May 1987 ^r	June 1987 ^r	July 1987 ^p	July 1986 to July 1987 ^p	May 1987 to June 1987 ^r	June 1987 to July 1987 ^p
Total	189,686	189,435	189,788	2.6	-0.1	0.2
Private sector	155,549	155,375	155,682	2.5	-.1	.2
Mining	1,620	1,620	1,642	-.4	.0	1.4
Construction	9,904	9,763	9,798	2.5	-1.4	.4
Manufacturing	40,411	40,413	40,540	1.5	.0	.3
Durable goods	24,004	23,995	24,009	.5	.0	.1
Nondurable goods	16,407	16,417	16,531	2.9	.1	.7
Transportation and public utilities	10,892	10,908	10,890	2.0	.1	-2
Wholesale trade	11,496	11,493	11,454	.2	.0	-3
Retail trade	27,804	27,659	27,823	2.6	-.5	.6
Finance, insurance, and real estate	12,417	12,495	12,411	3.7	.6	-7
Services	41,003	41,024	41,123	3.9	.1	.2
Government	34,137	34,060	34,106	3.2	-.2	.1

¹ Total hours paid for 1 week in the month, seasonally adjusted, multiplied by 52.

^p = preliminary.

^r = revised.

NOTE: 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.

SOURCE: Office of Productivity and Technology (202 523 9261).

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

C-10. Indexes of productivity, hourly compensation, unit costs, and prices, seasonally adjusted¹

(1977=100)

Item	Annual average		Quarterly index										
	1985 ^f	1986 ^f	1984	1985				1986				1987	
			IV ^f	I ^f	II ^f	III ^f	IV ^f	I ^f	II ^f	III ^f	IV ^f	I ^f	II ^f
Business sector													
Output per hour of all persons	107.5	109.5	105.9	106.5	107.2	108.2	107.9	109.5	109.7	109.6	109.6	109.7	110.0
Output	123.9	128.0	120.8	122.2	123.3	124.7	125.3	127.3	127.5	128.1	129.0	130.2	131.1
Hours	115.2	116.9	114.0	114.7	115.0	115.2	116.1	116.3	116.3	116.9	117.8	118.7	119.2
Compensation per hour	175.9	182.8	170.3	172.4	174.6	177.0	179.3	180.7	182.2	183.6	185.2	185.8	187.3
Real compensation per hour	99.1	101.0	96.1	98.5	98.6	99.4	99.7	100.1	101.3	101.4	101.6	100.7	100.3
Unit labor costs	163.6	166.9	160.8	161.9	162.8	163.6	166.1	165.0	166.2	167.5	169.0	169.4	170.2
Unit nonlabor payments	160.3	163.8	157.9	158.7	160.4	161.8	160.2	163.1	163.9	165.7	162.4	166.0	168.8
Implicit price deflator	162.4	165.8	159.8	160.8	162.0	163.0	164.0	164.3	165.4	166.9	166.7	168.2	169.7
Nonfarm business sector													
Output per hour of all persons	105.8	107.5	104.8	105.2	105.7	106.4	105.9	107.7	107.7	107.5	107.5	107.6	108.0
Output	123.6	127.5	120.7	122.0	123.1	124.3	124.9	126.9	127.1	127.6	128.5	129.7	130.8
Hours	116.8	118.6	115.2	115.9	116.4	116.9	117.9	117.9	118.0	118.7	119.6	120.6	121.1
Compensation per hour	175.2	182.0	170.2	172.2	174.1	176.2	178.3	180.0	181.3	182.6	184.4	184.9	186.2
Real compensation per hour	98.7	100.6	98.0	98.4	98.3	98.9	99.2	99.7	100.8	100.9	101.2	100.2	99.7
Unit labor costs	165.6	169.3	162.4	163.6	164.7	165.7	168.3	167.2	168.4	169.8	171.5	171.8	172.5
Unit nonlabor payments	161.3	165.2	158.5	159.5	161.5	163.4	160.8	164.7	165.2	167.0	163.9	167.4	168.7
Implicit price deflator	164.1	167.8	161.0	162.2	163.6	164.9	165.7	166.4	167.3	168.8	168.8	170.3	171.1
Manufacturing													
Output per hour of all persons	124.2	128.8	120.0	121.5	124.0	125.2	126.0	127.6	128.3	129.4	129.9	130.8	131.9
Output	122.5	125.9	119.6	120.7	122.1	123.2	124.1	125.2	125.1	126.1	127.2	128.4	128.9
Hours	98.7	97.8	99.7	99.4	98.5	98.3	98.4	98.1	97.5	97.5	97.9	98.1	97.7
Compensation per hour	176.9	182.7	171.1	173.3	176.1	178.0	180.2	181.0	182.1	183.1	184.3	183.9	184.7
Real compensation per hour	99.6	100.9	98.5	99.0	99.5	99.9	100.2	100.3	101.2	101.2	101.2	99.6	98.9
Unit labor costs	142.4	141.8	142.5	142.7	142.0	142.1	143.0	141.9	142.0	141.5	141.9	140.8	140.1
Durable goods													
Output per hour of all persons	130.1	136.8	123.8	126.3	129.6	131.5	133.1	135.3	135.9	137.5	138.4	139.6	140.6
Output	129.9	134.1	125.2	127.2	129.2	130.7	132.2	133.7	133.1	134.1	135.4	136.6	136.7
Hours	99.8	98.0	101.1	100.7	99.8	99.4	99.4	98.8	98.0	97.5	97.8	97.8	97.2
Compensation per hour	175.4	181.4	169.1	171.4	174.4	176.6	179.4	179.9	180.8	181.6	183.1	182.2	182.8
Real compensation per hour	98.8	100.2	97.3	97.9	98.5	99.2	99.8	99.7	100.5	100.3	100.5	98.7	97.9
Unit labor costs	134.9	132.6	136.5	135.7	134.6	134.3	134.8	132.9	133.1	132.0	132.3	130.5	130.0
Nondurable goods													
Output per hour of all persons	115.1	116.8	114.2	114.0	115.4	115.6	115.3	115.8	116.9	117.3	117.1	117.8	119.0
Output	111.6	113.7	111.4	111.0	111.5	111.9	111.9	112.5	113.3	114.2	114.9	116.1	117.2
Hours	97.0	97.4	97.6	97.4	96.6	96.8	97.1	97.2	96.9	97.3	98.1	98.6	98.5
Compensation per hour	178.9	184.8	174.1	176.1	178.6	180.0	181.2	182.7	184.3	185.8	186.5	186.9	188.1
Real compensation per hour	100.8	102.1	100.2	100.5	100.8	101.0	100.8	101.2	102.4	102.7	102.4	101.2	100.7
Unit labor costs	155.5	158.3	152.5	154.4	154.7	155.6	157.2	157.8	157.7	158.4	159.3	158.7	158.1
Nonfinancial corporations													
Output per all-employee hour	108.2	109.9	106.4	107.0	107.7	109.2	108.9	109.8	109.7	109.9	110.5	109.7	(²)
Output	126.1	129.4	122.7	124.0	125.4	127.4	127.7	129.1	128.8	129.3	130.4	130.9	(²)
Hours	116.5	117.7	115.3	115.9	116.4	116.6	117.3	117.6	117.4	117.6	118.0	119.3	(²)
Compensation per hour	172.8	178.9	168.1	169.9	171.8	173.8	175.7	177.2	178.4	179.5	181.0	180.8	(²)
Real compensation per hour	97.4	98.9	96.8	97.0	97.0	97.6	97.7	98.2	99.1	99.2	99.3	98.0	(²)
Total unit costs	164.4	167.7	162.8	163.6	164.3	163.7	166.0	166.3	167.2	168.5	168.7	169.7	(²)
Unit labor costs	159.7	162.8	158.0	158.9	159.5	159.1	161.4	161.5	162.6	163.2	163.8	164.8	(²)
Unit nonlabor costs	178.3	182.2	176.8	177.5	178.7	177.5	179.4	180.7	180.6	184.2	183.2	184.1	(²)
Unit profits	133.9	129.3	134.2	132.0	132.2	142.5	128.7	129.7	129.5	130.6	127.7	132.2	(²)
Implicit price deflator	160.7	163.1	159.4	159.8	160.5	161.2	161.5	161.9	162.7	164.0	163.8	165.2	(²)

¹ All of the productivity and cost measures incorporate revised output and compensation measures reported by the Bureau of Economic Analysis of the U.S. Department of Commerce; revised seasonal factors for employment and average weekly hours; and revised data for employees of nonagricultural establishments.

² Not available.

^f = preliminary.
= revised.

SOURCE: Office of Productivity and Technology (202 523 9261).

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

C-11. Percent changes from the preceding quarter and year in productivity, hourly compensation, unit costs, and prices, seasonally adjusted annual rates¹

Item	Percent change from											
	Previous quarter						Same quarter, previous year					
	I 1986'	II 1986'	III 1986'	IV 1986'	I 1987'	II 1987 ^P	I 1986'	II 1986'	III 1986'	IV 1986'	I 1987'	II 1987 ^P
Business sector												
Output per hour of all persons	5.8	0.6	-0.3	-0.1	0.5	1.3	2.8	2.3	1.3	1.5	0.2	0.3
Output	6.4	.7	1.8	3.0	3.5	3.0	4.2	3.4	2.7	2.9	2.3	2.8
Hours .....	.5	.1	2.1	3.1	3.0	1.7	1.3	1.1	1.5	1.4	2.1	2.5
Compensation per hour	3.2	3.5	3.0	3.6	1.4	3.2	4.8	4.4	3.7	3.3	2.8	2.8
Real compensation per hour	1.6	4.8	.5	.9	-3.7	-1.7	1.7	2.7	2.0	1.9	.6	-1.0
Unit labor costs	-2.5	2.8	3.3	3.7	.9	1.9	1.9	2.1	2.4	1.8	2.7	2.4
Unit nonlabor payments	7.5	2.1	4.5	-7.7	9.0	7.1	2.8	2.2	2.4	1.4	1.8	3.0
Implicit price deflator .....	.9	2.6	3.7	-5	3.7	3.7	2.2	2.1	2.4	1.7	2.3	2.6
Nonfarm business sector												
Output per hour of all persons	6.6	.1	-6	.0	.4	1.4	2.3	1.9	1.1	1.5	-1	.3
Output	6.4	.6	1.7	2.9	3.8	3.2	4.0	3.3	2.6	2.9	2.2	2.9
Hours	-2	.6	2.3	2.9	3.4	1.8	1.7	1.4	1.6	1.4	2.3	2.6
Compensation per hour	3.9	2.9	2.8	4.0	1.1	2.9	4.5	4.1	3.6	3.4	2.7	2.7
Real compensation per hour	2.3	4.2	.4	1.3	-3.9	-1.9	1.4	2.5	1.9	2.0	.5	-1.1
Unit labor costs	-2.6	2.8	3.5	4.0	.8	1.5	2.2	2.2	2.5	1.9	2.8	2.4
Unit nonlabor payments	10.0	1.3	4.2	-7.2	8.8	3.2	3.2	2.3	2.2	1.9	1.6	2.1
Implicit price deflator	1.6	2.3	3.7	.0	3.4	2.1	2.6	2.3	2.4	1.9	2.4	2.3
Manufacturing												
Output per hour of all persons	4.9	2.3	3.6	1.4	3.0	3.3	5.0	3.4	3.3	3.0	2.5	2.8
Output	3.6	-.1	3.2	3.4	3.8	1.7	3.7	2.5	2.4	2.5	2.5	3.0
Hours	-1.3	-2.3	-.4	2.0	.8	-1.5	-1.3	-.9	-.9	-.5	.0	.2
Compensation per hour	1.8	2.5	2.2	2.7	-1.0	1.8	4.4	3.4	2.9	2.3	1.6	1.4
Real compensation per hour .....	.2	3.8	-.2	.0	-6.0	-2.9	1.3	1.8	1.2	.9	-.7	-2.3
Unit labor costs	-3.0	.2	-1.3	1.3	-3.9	-1.4	-.5	.0	-.4	-.7	-1.0	-1.3
Durable goods												
Output per hour of all persons	7.0	1.5	5.0	2.6	3.6	2.9	7.1	4.9	4.6	4.0	3.2	3.5
Output	4.4	-1.7	3.2	3.8	3.6	.4	5.0	3.0	2.6	2.4	2.2	2.7
Hours	-2.4	-3.2	-1.7	1.1	.0	-2.4	-2.0	-1.8	-1.9	-1.5	-.9	-.7
Compensation per hour	1.2	1.9	1.7	3.4	-1.9	1.4	4.9	3.6	2.8	2.1	1.3	1.1
Real compensation per hour	-.4	3.3	-.7	.7	-6.8	-3.4	1.8	2.0	1.1	.7	-.9	-2.6
Unit labor costs	-5.4	.4	-3.1	.8	-5.3	-1.4	-2.0	-1.2	-1.7	-1.9	-1.8	-2.3
Nondurable goods												
Output per hour of all persons	1.7	3.9	1.5	-.6	2.1	4.2	1.5	1.2	1.4	1.6	1.7	1.8
Output	2.3	2.8	3.1	2.7	4.1	3.9	1.3	1.6	2.0	2.7	3.2	3.5
Hours .....	.5	-1.0	1.6	3.3	1.9	-.3	-.2	.4	.6	1.1	1.4	1.6
Compensation per hour	3.2	3.6	3.4	1.5	.7	2.8	3.7	3.2	3.3	2.9	2.3	2.1
Real compensation per hour	1.6	5.0	.9	-1.1	-4.4	-2.0	.6	1.6	1.6	1.6	.1	-1.6
Unit labor costs	1.4	-.2	1.9	2.1	-1.4	-1.4	2.2	1.9	1.8	1.3	.6	.3
Nonfinancial corporations												
Output per all-employee hour	3.3	-.2	.9	2.1	-2.9	(¹)	2.6	1.8	.7	1.5	.0	(¹)
Output	4.4	-.9	1.6	3.4	1.5	(¹)	4.1	2.7	1.5	2.1	1.4	(¹)
Hours	1.0	-.6	.7	1.3	4.6	(¹)	1.4	.8	.8	.6	1.5	(¹)
Compensation per hour	3.5	2.6	2.5	3.5	-.5	(¹)	4.3	3.9	3.3	3.0	2.0	(¹)
Real compensation per hour	1.8	4.0	.0	.8	-5.5	(¹)	1.2	2.2	1.6	1.6	-.2	(¹)
Total unit costs .....	.9	2.0	3.3	.3	2.4	(¹)	1.7	1.7	2.9	1.6	2.0	(¹)
Unit labor costs .....	.1	2.9	1.5	1.3	2.5	(¹)	1.6	2.0	2.6	1.5	2.1	(¹)
Unit nonlabor costs	3.0	-.2	8.2	-2.3	2.2	(¹)	1.8	1.0	3.8	2.1	1.9	(¹)
Unit profits	3.0	-.5	3.3	-8.5	14.7	(¹)	-1.7	-2.1	-8.4	-.8	1.9	(¹)
Implicit price deflator	1.1	1.8	3.3	-.5	3.5	(¹)	1.3	1.4	1.7	1.4	2.0	(¹)

¹ All of the productivity and cost measures incorporate revised output and compensation measures reported by the Bureau of Economic Analysis of the U.S. Department of Commerce; revised seasonal factors for employment and average weekly hours; and revised data for employees of nonagricultural establishments.

² Not available.

^P = preliminary.

(¹) = revised.

SOURCE: Office of Productivity and Technology (202 523 9261).

**STATE AND AREA LABOR FORCE DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Alabama	1,894.5	1,891.5	1,889.9	192.2	150.5	145.8	10.1	8.0	7.7
Birmingham	442.8	446.4	449.2	37.6	29.9	29.8	8.5	6.7	6.6
Huntsville	128.5	128.4	129.4	10.0	6.9	6.7	7.8	5.3	5.1
Mobile	214.2	211.7	212.4	23.8	19.4	19.5	11.1	9.2	9.2
Montgomery	135.7	137.0	137.7	10.8	9.5	9.2	7.9	6.9	6.7
Tuscaloosa	87.1	70.0	68.7	5.8	4.8	4.3	8.6	6.6	6.3
Alaska	265.7	259.3	260.4	29.0	28.6	29.2	10.9	11.0	11.2
Arizona	1,593.3	1,603.2	1,602.2	119.9	107.2	111.8	7.5	6.7	7.0
Phoenix	989.9	995.8	996.1	56.5	55.3	57.5	5.7	5.6	5.8
Tucson	308.8	307.5	307.9	18.0	15.7	16.3	5.8	5.1	5.3
Arkansas	1,084.9	1,078.9	1,080.9	93.6	83.6	87.7	8.6	7.8	8.1
Fayetteville-Springdale	54.1	56.3	55.9	2.6	2.3	2.3	4.7	4.0	4.0
Fort Smith	88.8	87.9	86.7	8.6	5.1	5.4	7.4	5.8	6.1
Little Rock-North Little Rock	254.6	254.0	251.9	17.5	17.8	19.0	6.9	7.0	7.6
Pine Bluff	38.7	38.4	38.9	3.1	3.1	3.3	8.0	8.6	8.9
California¹	13,453.5	13,806.9	13,830.1	871.7	787.1	750.6	6.5	5.6	5.4
Anaheim-Santa Ana	1,260.7	1,316.8	1,311.3	49.7	40.2	42.3	3.9	3.1	3.2
Bakersfield	223.8	225.4	228.4	26.0	20.3	21.7	11.8	9.0	9.6
Fresno	297.8	300.9	301.9	33.5	29.3	27.4	11.3	9.7	9.1
Los Angeles-Long Beach ¹	4,122.0	4,193.0	4,205.0	276.0	264.0	238.0	8.7	6.3	5.7
Modesto	146.2	149.9	149.2	20.5	19.3	18.8	14.0	12.9	12.6
Oakland	1,016.7	1,051.9	1,053.8	56.6	49.9	51.4	5.8	4.7	4.9
Oxnard-Ventura	323.8	338.9	337.7	20.2	15.3	17.3	6.3	4.5	5.1
Riverside-San Bernardino	860.6	908.7	914.2	54.0	47.0	48.9	6.3	5.2	5.4
Sacramento	645.4	674.3	676.4	38.0	34.9	35.4	5.9	5.2	5.2
Salinas-Seaside-Monterey	153.7	158.2	156.0	13.1	10.0	10.0	8.5	6.4	8.4
San Diego	1,018.7	1,063.5	1,065.0	50.7	45.3	48.5	5.0	4.3	4.4
San Francisco	889.3	885.7	886.6	40.3	32.4	34.0	4.6	3.7	3.8
San Jose	804.6	806.9	802.0	45.7	35.5	36.8	5.7	4.4	4.6
Santa Barbara-Santa Maria-Lompoc	177.9	181.2	182.1	8.4	7.1	7.8	4.7	3.9	4.3
Santa Rosa-Petaluma	180.5	188.6	188.4	10.0	8.4	8.7	5.5	4.5	4.8
Stockton	186.4	192.7	190.5	21.1	17.9	17.9	11.3	9.3	9.4
Vallejo-Fairfield-Napa	182.2	188.5	189.5	11.2	9.9	10.1	8.2	5.3	5.3
Colorado	1,719.4	1,698.1	1,695.4	125.8	142.2	135.8	7.3	8.4	8.0
Boulder-Longmont	130.2	129.8	129.8	7.8	7.8	8.0	6.0	6.0	6.2
Denver	912.9	907.7	900.7	59.7	68.9	67.0	6.5	7.6	7.4
Connecticut	1,755.2	1,745.7	1,778.5	64.3	54.1	57.7	3.7	3.1	3.2
Bridgeport-Milford	230.1	229.1	232.6	10.4	8.6	9.0	4.5	3.8	3.9
Hartford	421.4	422.5	430.2	13.6	11.7	12.9	3.2	2.8	3.0
New Britain	75.0	73.5	74.5	2.8	2.4	2.7	3.8	3.3	3.6
New Haven-Meriden	274.3	271.8	277.3	9.8	8.3	8.9	3.6	3.1	3.2
Stamford	118.4	117.8	118.5	3.3	2.7	2.8	2.8	2.3	2.4
Waterbury	104.1	101.7	104.0	5.1	4.3	4.5	4.9	4.2	4.3
Delaware	334.0	340.4	342.4	14.3	9.5	10.7	4.3	2.8	3.1
Wilmington	286.0	288.9	287.3	14.4	9.2	10.9	5.0	3.2	3.8
District of Columbia	325.1	338.8	342.8	24.5	21.0	21.7	7.5	6.2	6.3
Washington	2,054.9	2,117.6	2,142.9	75.3	68.8	73.1	3.7	3.2	3.4
Florida¹	5,668.0	5,878.7	5,882.9	342.8	297.3	312.6	8.0	5.1	5.3
Daytona Beach	141.8	146.9	146.9	7.3	6.3	6.1	5.2	4.3	4.2
Fort Lauderdale-Hollywood-Pompano Beach	590.0	607.6	607.7	26.6	25.1	24.8	4.5	4.1	4.1
Fort Myers-Cape Coral	122.3	136.8	135.1	5.6	4.6	5.0	4.5	3.4	3.7
Gainesville	99.4	105.6	103.7	3.2	4.0	3.5	3.2	3.8	3.4
Jacksonville	428.1	441.8	446.8	24.8	21.6	24.9	5.8	4.9	5.6
Lakeland-Winter Haven	169.1	180.7	176.0	20.2	13.9	16.2	11.9	7.7	9.2
Melbourne-Titusville-Palm Bay	173.2	172.1	174.8	10.6	9.0	9.2	6.1	5.2	5.2
Miami-Hialeah	909.1	911.8	910.5	63.9	53.4	51.9	7.0	5.9	5.7
Orlando	532.5	566.2	574.3	26.8	24.9	26.0	5.0	4.4	4.5
Pensacola	149.8	149.6	150.9	10.1	8.8	8.6	6.8	5.9	5.7
Sarasota	110.0	114.3	114.3	4.7	3.8	4.2	4.2	3.4	3.6
Tallahassee	118.8	124.8	126.6	4.8	4.7	5.3	4.0	3.6	4.2
Tampa-St. Petersburg-Clearwater	930.0	959.5	957.3	50.2	44.9	47.6	5.4	4.7	5.0
West Palm Beach-Boca Raton-Delray Beach	368.1	394.3	395.3	24.1	20.3	22.2	6.5	5.1	5.6

See footnotes at end of table.

**STATE AND AREA LABOR FORCE DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Georgia	3,024.5	3,088.5	3,101.7	182.5	150.9	158.4	6.0	4.9	5.1
Albany	56.8	56.6	56.1	6.9	5.2	5.1	12.1	9.3	9.1
Athens	71.7	74.5	74.3	3.5	2.8	2.8	4.8	3.5	3.8
Atlanta	1,404.3	1,473.2	1,477.0	66.2	60.4	64.8	4.7	4.1	4.4
Augusta	172.7	175.9	177.0	10.1	10.1	9.8	5.9	5.7	5.6
Columbus	99.5	99.5	100.1	7.7	5.9	5.8	7.7	6.0	5.8
Macon-Warner Robins	127.2	129.0	130.9	6.0	6.0	7.1	6.3	4.6	5.4
Savannah	106.7	110.4	111.0	7.2	5.8	6.2	6.7	5.3	5.6
Hawaii	492.8	505.3	506.9	26.9	20.5	22.1	5.5	4.1	4.3
Honolulu	368.7	376.9	382.3	17.9	13.5	14.8	4.8	3.6	3.9
Idaho	481.2	468.8	488.2	40.8	36.4	34.2	8.5	7.8	7.0
Boise City	101.8	103.4	103.8	5.9	5.8	5.6	5.8	5.6	5.4
Illinois¹	5,805.5	5,686.7	5,817.6	488.5	466.0	451.6	8.4	8.2	7.8
Aurora-Elgin	174.1	172.5	176.5	12.2	10.5	10.2	7.0	6.1	5.7
Bloomington-Normal	62.8	63.7	63.3	3.5	3.5	3.0	5.6	5.4	4.8
Champaign-Urbana-Rantoul	84.4	87.1	84.8	4.2	4.3	4.1	5.0	4.9	4.8
Chicago	3,178.3	3,117.5	3,207.1	249.5	234.5	229.7	7.8	7.5	7.2
Davenport-Rock Island-Moline	186.0	180.5	162.7	17.1	13.2	13.2	9.2	7.3	7.2
Decatur	60.9	57.9	58.7	6.6	6.2	5.7	10.9	10.8	9.7
Joliet	193.3	188.2	192.7	14.6	15.5	15.6	7.5	8.2	8.1
Kankakee	45.9	44.3	46.0	4.9	4.5	4.5	10.6	10.1	9.7
Lake County	261.4	254.6	266.2	13.9	12.5	12.4	5.3	4.9	4.7
Peoria	156.4	152.4	154.2	14.1	13.9	13.2	9.0	9.1	8.6
Rockford	148.5	147.5	151.0	13.1	17.3	16.5	8.8	11.7	11.0
Springfield	107.0	103.4	105.9	6.0	5.9	5.7	5.6	5.7	5.4
Indiana	2,745.2	2,758.4	2,767.1	173.2	168.1	172.3	6.3	6.1	6.2
Anderson	61.2	59.4	59.1	3.7	3.6	3.7	6.0	6.4	6.3
Bloomington	53.2	58.9	58.9	2.0	2.6	2.1	3.8	4.4	3.8
Elkhart-Goshen	91.1	94.3	93.7	4.0	5.4	4.3	4.4	5.7	4.6
Evansville	144.6	142.7	143.5	9.7	10.5	10.2	6.7	7.3	7.1
Fort Wayne	190.1	191.9	194.0	9.7	9.8	10.0	5.1	5.0	5.2
Gary-Hammond	257.6	251.8	253.2	27.2	23.1	23.5	10.6	9.2	9.3
Indianapolis	850.6	857.8	863.5	32.5	31.8	33.4	5.0	4.6	5.0
Kokomo	49.3	49.1	49.6	4.3	4.0	5.0	8.8	8.1	10.1
Lafayette	61.9	62.9	62.4	2.2	2.2	2.3	3.6	3.5	3.7
Muncie	57.9	60.0	57.3	3.8	3.9	3.5	6.6	6.5	6.1
South Bend-Mishawaka	124.3	126.6	126.2	6.6	6.4	7.2	5.5	5.1	5.7
Terre Haute	59.1	57.9	57.6	4.0	3.8	3.8	6.7	6.2	6.6
Iowa	1,471.3	1,468.5	1,475.4	94.1	60.0	68.1	6.4	4.1	4.5
Cedar Rapids	89.5	89.8	88.9	5.2	3.7	4.1	5.8	4.1	4.6
Des Moines	216.8	220.4	223.2	11.5	7.8	8.4	5.3	3.5	3.8
Dubuque	43.0	44.0	44.0	3.0	1.8	2.0	6.9	4.1	4.7
Iowa City	53.9	58.4	54.1	1.4	.8	.9	2.6	1.4	1.7
Sioux City	59.4	61.6	60.9	4.6	3.0	5.2	7.8	4.8	8.5
Waterloo-Cedar Falls	68.7	69.2	67.7	8.0	4.5	4.6	11.7	6.5	6.7
Kansas	1,249.0	1,264.6	1,277.7	67.2	55.1	59.3	5.4	4.4	4.6
Lawrence	36.0	39.4	37.3	1.7	1.2	1.5	4.7	3.1	4.0
Topeka	87.3	88.8	89.9	4.1	3.4	3.8	4.7	3.8	4.2
Wichita LMA	225.5	233.8	235.3	13.9	10.6	11.1	6.2	4.5	4.7
Kentucky	1,696.5	1,886.5	1,703.1	153.3	151.9	155.3	9.0	9.0	9.1
Lexington-Fayette	179.6	180.0	179.2	9.2	9.9	9.3	5.1	5.5	5.2
Louisville	494.3	492.3	498.0	34.8	35.9	37.1	7.0	7.3	7.5
Owensboro	45.1	43.8	43.7	4.7	5.0	5.1	10.4	11.4	11.8
Louisiana	2,006.9	1,935.4	1,950.0	280.0	219.4	219.2	14.0	11.3	11.2
Alexandria	81.3	81.1	61.9	7.0	5.7	5.6	11.3	9.4	9.1
Baton Rouge	264.5	261.1	263.5	30.6	24.1	25.4	11.6	9.2	9.7
Houma-Thibodaux	78.0	73.3	72.3	14.4	11.5	10.6	18.5	15.7	14.6
Lafayette	109.2	100.3	101.3	16.8	12.4	12.0	15.4	12.4	11.8
Lake Charles	76.6	75.0	77.4	11.7	9.3	9.8	15.3	12.4	12.7
Monroe	70.9	67.4	69.8	7.4	6.5	6.6	10.4	9.6	9.4
New Orleans	612.9	590.7	595.9	69.7	56.5	56.1	11.4	9.6	9.4
Shreveport	171.0	164.3	164.3	20.6	16.8	16.6	12.1	10.2	10.1
Maine	570.1	566.3	589.6	27.7	22.6	23.7	4.9	4.0	4.0
Lewiston-Auburn	40.2	40.4	41.2	2.4	1.9	2.2	5.9	4.8	5.4
Portland	118.5	116.2	120.9	2.8	2.6	2.6	2.4	2.2	2.2

See footnotes at end of table.

**STATE AND AREA LABOR FORCE DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
Maryland	2,392.7	2,426.0	2,437.6	104.8	94.3	101.5	4.4	3.9	4.2
Baltimore	1,169.7	1,171.0	1,173.5	59.2	50.7	53.2	5.1	4.3	4.5
Massachusetts ¹	3,053.6	3,052.8	3,136.8	113.1	102.9	97.0	3.7	3.4	3.1
Boston	1,509.9	1,517.0	1,545.0	49.2	44.1	41.9	3.3	2.9	2.7
Brockton	94.7	95.6	97.8	4.2	3.7	3.5	4.4	3.9	3.6
Fall River	75.1	76.0	77.3	4.4	4.2	3.6	5.9	5.6	4.6
Fitchburg-Leominster	45.9	45.1	45.8	2.1	2.2	1.9	4.6	4.8	4.2
Lawrence-Haverhill	183.8	181.9	186.7	8.7	8.6	8.3	4.7	4.7	4.4
Lowell	147.6	146.8	149.8	6.0	5.3	5.1	4.0	3.6	3.4
New Bedford	84.3	82.5	86.2	4.5	4.5	4.0	5.4	5.4	4.6
Pittsfield	40.0	40.9	42.8	1.5	1.5	1.5	3.8	3.6	3.6
Springfield	245.4	249.4	256.1	10.0	8.2	8.3	4.1	3.3	3.3
Worcester	206.1	209.6	214.4	7.2	6.4	6.1	3.5	3.1	2.9
Michigan ¹	4,428.5	4,518.2	4,574.7	416.0	368.5	408.3	9.4	8.2	8.9
Ann Arbor	147.0	154.7	156.4	8.3	6.8	7.9	5.7	4.4	5.1
Battle Creek	61.9	62.6	63.5	6.2	4.8	5.4	9.9	7.6	8.5
Benton Harbor	76.6	77.1	77.3	7.9	5.9	6.5	10.3	7.6	8.4
Detroit	2,145.2	2,213.5	2,242.5	187.8	178.8	199.1	8.8	8.1	8.9
Flint	201.5	202.1	205.5	20.6	25.3	26.6	10.2	12.5	13.0
Grand Rapids	332.9	338.3	341.7	27.9	20.7	24.0	8.4	6.1	7.0
Jackson	62.1	62.3	63.0	6.4	4.9	5.7	10.3	7.9	9.0
Kalamazoo	109.9	112.4	113.2	7.9	5.7	6.8	7.2	5.1	6.0
Lansing-East Lansing	227.8	237.8	236.9	17.8	15.8	16.9	7.8	6.6	7.1
Muskegon	68.6	68.1	69.0	8.2	7.0	7.7	12.0	10.3	11.2
Saginaw-Bay City-Midland	184.4	186.2	188.7	20.3	17.2	18.8	11.0	9.3	9.9
Minnesota	2,250.7	2,256.7	2,284.1	110.2	100.5	110.4	4.9	4.4	4.8
Duluth	102.9	101.8	105.4	7.9	8.6	9.3	7.7	8.4	8.8
Minneapolis-St. Paul	1,318.9	1,333.5	1,347.2	53.8	48.6	55.2	4.1	3.6	4.1
Rochester	56.4	57.5	56.4	2.1	1.9	2.0	3.7	3.3	3.5
St. Cloud	87.4	92.9	90.9	4.5	4.7	4.8	5.1	5.1	5.3
Mississippi	1,177.7	1,157.9	1,157.8	149.8	103.0	112.9	12.7	8.9	9.8
Jackson	197.3	197.7	199.0	16.9	12.7	13.8	8.5	6.4	6.8
Missouri	2,553.9	2,599.7	2,601.7	147.9	152.2	156.8	5.8	5.9	6.0
Kansas City	803.5	818.8	822.9	37.2	43.7	47.2	4.6	5.3	5.7
St. Joseph	41.8	41.0	41.4	3.0	2.8	2.9	7.1	6.8	7.0
St. Louis	1,248.3	1,257.5	1,263.2	86.8	89.1	88.8	7.0	7.1	7.0
Springfield	113.9	120.2	118.8	5.0	5.1	5.8	4.4	4.2	4.7
Montana	425.9	405.5	407.5	32.5	23.8	24.6	7.6	5.9	6.0
Nebraska	824.9	822.5	824.3	37.7	36.0	38.7	4.6	4.4	4.7
Lincoln	117.3	119.2	117.0	3.5	3.6	3.6	3.0	3.0	3.1
Omaha	318.5	317.1	318.0	16.8	14.9	16.5	5.2	4.7	5.2
Nevada	542.7	565.9	566.3	29.3	32.2	32.6	5.4	5.7	5.7
Las Vegas	309.2	329.8	328.0	18.2	19.3	20.1	5.9	5.8	6.1
Reno	137.8	139.9	140.0	6.0	7.2	6.9	4.4	5.1	4.9
New Hampshire	571.1	583.4	601.2	14.8	13.8	14.8	2.8	2.4	2.5
Nashua	92.3	95.2	97.1	2.7	2.3	2.7	2.9	2.4	2.6
Portsmouth-Dover-Rochester	127.7	129.8	134.5	2.9	2.6	2.9	2.2	2.0	2.2
New Jersey ¹	3,980.9	4,029.3	4,028.8	200.8	187.2	166.8	5.0	4.2	4.1
Atlantic City	184.9	181.7	192.4	11.3	9.6	9.4	6.1	5.3	4.9
Bergen-Passaic	718.8	723.0	719.8	34.5	26.8	26.3	4.8	3.7	3.7
Jersey City	270.8	274.8	273.0	22.5	18.8	18.2	8.3	6.9	6.7
Middlesex-Somerset-Hunterdon	542.7	552.4	550.9	21.1	17.0	17.0	3.9	3.1	3.1
Monmouth-Ocean	473.1	474.3	482.9	18.5	15.5	16.3	3.9	3.3	3.4
Newark	980.7	988.0	981.3	53.4	43.4	43.2	5.4	4.4	4.4
Trenton	170.8	175.9	173.7	7.4	8.0	8.0	4.4	3.4	3.5
Vineland-Millville-Bridgeton	58.1	58.9	58.8	5.2	4.3	4.3	9.0	7.3	7.3
New Mexico	878.8	878.4	881.2	65.0	57.7	60.4	9.6	8.5	8.9
Albuquerque	255.1	258.2	257.7	17.2	15.2	16.9	6.8	5.9	6.8
Las Cruces	55.2	57.1	56.3	4.4	4.1	4.3	8.0	7.1	7.6
Santa Fe	65.2	65.7	67.0	3.4	3.7	3.8	5.3	5.6	5.7

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P	June 1986	May 1987	June 1987 ^P
New York¹	8,492.2	8,318.0	8,554.1	508.0	381.0	392.0	6.0	4.6	4.6
Albany-Schenectady-Troy	422.0	409.6	425.4	19.8	15.2	14.6	4.7	3.7	3.4
Binghamton	126.3	124.3	126.2	7.4	5.0	4.7	5.8	4.0	3.7
Buffalo	447.8	435.7	450.2	29.7	22.9	20.8	6.6	5.3	4.6
Elmira	40.4	40.2	42.2	2.4	1.6	1.5	6.1	4.1	3.5
Glens Falls	54.9	51.5	56.2	3.2	2.2	2.3	5.9	4.3	4.1
Nassau-Suffolk	1,453.5	1,405.5	1,467.8	63.1	44.4	45.0	4.3	3.2	3.1
New York	3,850.7	3,823.0	3,882.3	255.6	189.9	210.6	6.6	5.0	5.4
New York City ¹	3,164.0	3,161.0	3,190.0	230.0	170.0	191.0	7.3	5.4	6.0
Orange County	129.2	126.1	131.7	6.0	4.6	4.6	4.6	3.6	3.5
Poughkeepsie	129.2	124.9	129.4	4.8	3.5	3.4	3.7	2.6	2.6
Rochester	502.3	486.1	502.0	27.8	20.9	20.4	5.5	4.3	4.1
Syracuse	322.1	312.6	321.9	22.8	18.9	17.5	7.1	6.1	5.4
Utica-Rome	137.9	132.7	137.1	8.1	6.8	6.0	5.9	5.1	4.4
North Carolina¹	3,219.6	3,250.4	3,316.2	177.2	135.9	161.5	5.5	4.2	4.9
Asheville	87.8	86.3	89.1	4.6	3.6	4.1	5.3	4.1	4.6
Charlotte-Gastonia-Rock Hill	595.8	615.4	626.7	29.1	22.6	26.0	4.9	3.7	4.2
Greensboro-Winston-Salem-High Point	501.2	509.3	515.7	25.2	16.4	21.9	5.0	3.6	4.2
Raleigh-Durham	378.6	390.8	397.3	13.6	11.3	14.1	3.6	2.9	3.6
North Dakota	342.3	340.0	341.2	20.8	13.6	14.4	6.1	4.0	4.2
Bismarck	45.6	45.2	45.7	3.0	1.7	1.9	6.7	3.8	4.2
Fargo-Moorhead	81.4	85.1	84.7	3.2	2.3	2.6	3.9	2.8	3.0
Grand Forks	34.9	36.3	35.4	1.4	1.0	1.1	3.9	2.9	3.2
Ohio¹	5,266.6	5,263.7	5,293.4	458.0	371.5	384.4	8.7	7.1	7.3
Akron	318.0	320.9	317.6	26.3	23.4	23.1	8.3	7.3	7.3
Canton	191.0	189.2	189.9	20.4	16.7	16.2	10.7	8.8	8.5
Cincinnati	730.2	740.9	748.6	50.8	41.6	50.4	7.0	5.6	6.7
Cleveland	944.5	930.8	938.2	78.9	58.0	59.4	8.4	6.2	6.3
Columbus	676.8	691.1	695.6	44.1	39.0	39.6	6.5	5.6	5.7
Dayton-Springfield	459.9	466.0	468.0	32.5	26.7	26.6	7.1	5.7	6.1
Toledo	307.9	314.0	313.1	30.3	22.8	24.3	9.8	7.3	7.8
Youngstown-Warren	225.5	225.5	226.8	24.9	21.6	21.8	11.0	9.6	9.6
Oklahoma	1,629.7	1,574.5	1,581.6	138.1	117.5	119.8	8.5	7.5	7.6
Enid	32.0	29.7	30.2	2.7	2.1	2.2	8.5	7.2	7.2
Lawton	50.2	46.3	48.4	2.5	2.3	2.6	5.0	4.8	5.3
Oklahoma City	528.8	505.5	508.3	35.4	30.6	31.6	6.7	6.0	6.2
Tulsa	365.8	357.0	363.0	32.0	28.9	29.8	8.8	8.1	8.2
Oregon	1,374.3	1,350.2	1,379.3	109.1	74.1	75.8	7.9	5.5	5.5
Eugene-Springfield	135.4	134.3	136.1	11.5	6.7	7.1	8.5	5.0	5.2
Portland	617.4	616.8	624.4	43.5	29.1	31.3	7.0	4.7	5.0
Salem	127.7	122.6	129.5	10.5	7.4	7.1	8.2	6.0	5.5
Pennsylvania¹	5,707.4	5,589.4	5,713.3	418.8	300.4	354.2	7.3	5.4	6.2
Allentown-Bethlehem	324.9	311.9	318.5	25.9	13.8	15.8	8.0	4.4	5.0
Altoona	60.6	57.7	59.8	8.1	4.1	4.6	10.0	7.1	7.7
Beaver County	66.6	61.5	63.7	8.7	5.8	7.5	13.0	9.4	11.7
Erie	130.3	126.8	130.0	12.3	9.7	10.8	9.4	7.6	8.3
Harrisburg-Lebanon-Carlisle	306.7	307.3	312.2	16.0	9.5	11.3	5.2	3.1	3.6
Johnstown	97.3	93.5	95.9	10.9	7.3	8.7	11.2	7.8	9.1
Lancaster	209.2	211.2	214.6	7.5	5.0	6.4	3.6	2.4	3.0
Philadelphia	2,387.8	2,390.4	2,422.0	137.0	107.6	124.5	5.7	4.5	5.1
Pittsburgh	964.8	942.4	966.8	79.5	61.8	74.2	8.2	6.6	7.7
Reading	171.8	168.7	171.8	12.6	8.3	9.3	7.3	4.9	5.4
Scranton-Wilkes-Barre	349.9	336.2	343.0	30.2	21.2	22.8	8.6	6.3	6.6
Sharon	50.1	49.9	50.8	4.0	3.2	3.7	8.1	6.4	7.3
State College	55.9	58.4	57.3	3.7	2.8	3.6	6.6	4.8	6.2
Williamsport	56.4	56.2	58.0	4.1	2.8	3.1	7.3	5.0	5.3
York	209.3	206.5	208.6	12.4	8.7	9.7	5.9	4.2	4.6
Rhode Island	514.4	518.8	518.4	20.2	19.9	20.0	3.9	3.8	3.9
Pawtucket-Woonsocket-Attleboro	166.8	167.3	167.4	7.7	7.5	7.3	4.6	4.5	4.3
Providence	331.9	337.3	335.9	13.0	12.5	12.7	3.9	3.7	3.8
South Carolina	1,618.6	1,631.0	1,663.5	103.8	96.6	97.6	6.4	5.9	5.9
Charleston	219.0	223.8	232.3	10.8	10.5	11.4	4.9	4.7	4.9
Columbia	222.5	225.6	232.3	8.9	9.3	10.0	4.0	4.1	4.3
Greenville-Spartanburg	320.1	325.4	335.1	17.6	16.4	16.0	5.5	5.0	4.8
South Dakota	362.0	357.5	387.6	14.9	12.4	14.4	4.1	3.5	3.9
Rapid City	39.0	39.0	39.7	1.5	1.4	1.5	3.8	3.6	3.7
Sioux Falls	69.9	70.7	71.2	2.4	2.3	2.2	3.4	3.2	3.1

See footnotes at end of table.

**STATE AND AREA LABOR FORCE DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	June 1986	May 1987	June 1987 ^p	June 1986	May 1987	June 1987 ^p	June 1986	May 1987	June 1987 ^p
Tennessee	2,306.3	2,326.4	2,335.1	184.4	147.7	158.4	8.0	6.3	6.8
Chattanooga	204.8	202.4	200.7	16.3	11.3	12.3	8.0	5.6	6.1
Johnson City-Kingsport-Bristol	208.5	212.6	213.0	15.8	14.8	15.6	7.6	6.9	7.3
Knoxville	278.4	276.1	280.0	21.5	16.5	18.2	7.7	6.0	6.5
Memphis LMA	434.5	439.0	441.6	28.9	24.9	26.5	6.7	5.7	6.0
Nashville	503.3	508.2	510.4	25.5	20.7	22.8	5.1	4.1	4.5
Texas¹	8,259.5	8,458.5	8,483.0	912.9	728.0	815.8	11.1	8.6	9.6
Abilene	55.3	57.1	56.7	6.4	5.0	5.4	11.5	8.7	9.6
Amarillo	99.0	102.6	102.8	7.9	6.5	7.4	8.0	6.4	7.2
Austin	415.9	447.1	439.8	28.4	29.3	32.9	6.8	6.6	7.5
Beaumont-Port Arthur	168.1	165.9	166.6	30.8	22.0	24.3	18.3	13.3	14.6
Brazoria	83.0	83.5	84.2	11.6	8.0	9.4	14.0	9.6	11.1
Brownsville-Harlingen	96.7	98.3	99.1	18.3	14.0	15.4	18.9	14.3	15.5
Bryan-College Station	56.7	59.6	57.5	5.0	3.5	4.0	8.9	5.9	6.9
Corpus Christi	169.6	171.6	171.3	26.0	20.7	23.5	15.3	12.1	13.7
Dallas	1,417.0	1,457.3	1,457.7	98.2	92.7	106.3	6.9	6.4	7.3
El Paso	227.7	236.3	238.3	32.1	25.8	29.1	14.1	10.9	12.2
Fort Worth-Arlington	654.4	688.7	695.0	53.2	47.5	56.4	8.1	6.9	8.1
Galveston-Texas City	110.8	110.6	112.4	15.2	12.1	14.1	13.7	10.9	12.6
Houston	1,641.2	1,636.3	1,645.9	212.4	155.4	172.1	12.9	9.5	10.5
Killeen-Temple	89.6	94.3	95.2	8.3	7.4	8.3	9.3	7.9	8.7
Laredo	44.8	46.4	46.7	8.6	7.2	7.8	19.2	15.6	16.7
Longview-Marshall	82.4	81.2	81.7	13.3	8.8	10.0	16.2	10.9	12.3
Lubbock	110.3	114.0	112.7	9.4	7.3	8.3	8.5	6.4	7.3
McAllen-Edinburg-Mission	145.8	148.6	148.4	29.9	24.0	25.8	20.5	16.2	17.4
Midland	53.2	52.2	52.7	7.6	5.1	5.6	14.3	9.7	10.6
Odessa	62.1	58.5	59.0	12.4	7.1	7.4	20.0	12.1	12.5
San Angelo	45.7	47.1	47.3	4.1	3.1	3.2	9.0	6.6	6.8
San Antonio	582.4	616.0	619.8	50.7	49.3	56.1	8.7	8.0	9.0
Sherman-Denison	48.4	50.8	50.3	4.4	4.1	4.3	9.2	8.1	8.6
Texarkana	57.8	57.4	58.6	6.4	4.7	5.5	11.1	8.2	9.4
Tyler	76.2	78.3	78.6	8.2	7.1	7.7	10.7	9.1	9.8
Victoria	39.0	39.3	39.4	5.4	3.7	4.2	13.9	9.3	10.5
Waco	90.3	95.4	95.2	8.7	7.6	8.5	9.6	7.9	9.0
Wichita Falls	57.6	59.3	59.5	5.9	4.8	5.2	10.3	8.1	8.7
Utah	762.2	759.8	763.5	44.5	49.9	49.7	5.8	6.6	6.5
Provo-Orem	96.1	95.9	96.9	5.4	7.1	7.0	5.6	7.4	7.2
Salt Lake City-Ogden	503.8	504.5	506.2	26.7	29.6	30.1	5.3	5.9	6.0
Vermont	293.6	288.8	293.7	13.5	10.0	9.8	4.6	3.5	3.3
Burlington	72.3	74.4	74.4	2.4	2.0	1.8	3.3	2.6	2.4
Virginia	2,927.3	2,969.9	3,017.4	150.9	136.5	138.9	5.2	4.7	4.6
Charlottesville	66.0	65.6	66.5	2.9	2.2	2.3	4.4	3.3	3.4
Danville	51.0	50.0	50.7	4.9	3.4	3.4	9.6	6.8	6.8
Lynchburg	69.9	70.9	71.3	4.9	4.0	4.0	7.1	5.6	5.6
Norfolk-Virginia Beach-Newport News	580.0	592.7	607.4	29.4	29.3	30.4	5.1	4.9	5.0
Richmond-Petersburg	413.4	424.1	427.0	19.4	17.9	17.8	4.7	4.2	4.2
Roanoke	118.0	120.8	123.4	6.0	5.0	4.8	5.0	4.1	3.9
Washington	2,227.8	2,207.5	2,246.6	176.4	171.2	163.7	7.9	7.8	7.3
Seattle	959.2	975.3	981.8	62.6	60.7	60.0	6.5	6.2	6.1
West Virginia	745.5	742.2	745.1	83.2	67.3	67.4	11.2	9.1	9.1
Charleston	117.5	117.4	118.5	11.1	9.0	9.3	9.5	7.6	7.8
Huntington-Ashland	126.4	125.8	126.5	14.2	12.5	12.7	11.2	9.9	10.1
Parkersburg-Marietta	72.1	72.5	73.2	7.8	5.8	5.8	10.8	8.0	7.9
Wheeling	72.0	70.8	72.1	8.3	6.2	6.2	11.6	8.7	8.7
Wisconsin	2,441.4	2,480.2	2,531.0	160.8	134.5	139.9	6.6	5.4	5.5
Appleton-Oshkosh-Neenah	161.3	164.4	167.1	10.9	9.0	8.7	6.8	5.5	5.2
Eau Claire	68.4	72.8	73.2	4.1	3.7	3.9	6.0	5.1	5.3
Green Bay	102.0	103.6	105.7	5.9	5.6	5.9	5.8	5.4	5.5
Janesville-Beloit	70.6	70.7	71.7	5.4	5.1	5.1	7.6	7.2	7.2
Kenosha	52.0	53.8	54.5	5.9	3.4	3.9	11.4	6.4	7.2
La Crosse	49.4	52.6	52.5	2.7	2.4	2.5	5.5	4.6	4.8
Madison	204.0	213.6	214.2	8.6	7.3	7.4	4.2	3.4	3.4
Milwaukee	720.1	731.0	745.4	45.2	35.7	39.6	6.3	4.9	5.3
Racine	85.4	85.2	86.9	6.8	5.3	5.7	8.0	6.2	6.6
Sheboygan	52.7	53.9	56.7	3.3	2.6	3.5	6.3	4.9	6.1
Wausau	58.3	60.3	60.6	3.9	3.6	2.8	6.8	5.9	4.6
Wyoming	258.9	243.9	253.4	21.5	19.0	18.6	8.3	7.8	7.3

¹ Data are obtained directly from the Current Population Survey. See the Explanatory Notes for State and Area Labor Force Data.

² Not available.

^p = preliminary.

NOTE: Data refer to place of residence. Estimates for 1986 have been

benchmarked to 1986 Current Population Survey annual averages. Except in the 11 States and 2 areas designated by footnote 1, estimates for 1987 are provisional and will be revised when new benchmark information becomes available. Area definitions are published annually in the May issue of this publication.

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 59,500 households, representing 729 areas in 1,973 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 currently based on payroll reports from a sample of 290,000 establishments employing over 38 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 the 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 survey 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 worker's sole or primary job. Data from the establishment survey generally refer to average 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 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 of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

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

unemployed in the household survey.

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

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 their impact on differences in the levels and trends of the two series.

COMPARABILITY OF 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 sample surveys of manufacturing and business establishments. The major reasons for 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 the 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. Historical national data are published in *Labor Force Statistics Derived From the Current Population Survey: A Databook*, BLS Bulletin 2096.

These monthly surveys of the population are conducted through 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. 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 publication. 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 59,500 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 and 5 percent. In addition to the 59,500 occupied units, there are 11,000 sample units in an average month which are visited but found to be vacant or otherwise not enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from one 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 had made specific efforts to find employment sometime during the prior 4 weeks. Persons who were waiting to be recalled to a job from which they had been laid off or were waiting to report to a new job within 30 days need not be looking for work to be classified as unemployed.

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, Hispanic 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 birth 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.

Persons who worked 35 hours or more during 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 noneconomic 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. Noneconomic reasons include: Labor dispute, bad weather, own illness, vacation, demands of home or 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.

Data on employment "at work" differ from data on total employment because they exclude persons in the zero-hours-

worked category, "with a job but not at work." These are persons who were absent from their jobs for the entire week for such reasons as bad weather, vacation, illness, or involvement in a labor dispute.

Employed persons are also categorized into full- and part-time groupings based primarily on their *usual status*. In this context, *full-time workers* are those who (a) worked 35 hours or more during the survey week, (b) worked 1 to 34 hours for economic or noneconomic reasons, but usually work full time, and (c) were with a job but not at work and usually work full time. Similarly, *part-time workers* are those who (a) voluntarily worked 1 to 34 hours during the survey week, (b) worked 1 to 34 hours for economic reasons, but usually work part time, i.e., persons who could only find part-time work; and (c) were with a job but not at work and usually work part time.

Unemployment rates for full- and part-time workers are calculated using the concepts of the *full- and part-time labor force* which are based on the type of job—full or part-time—that persons—whether working or unemployed—report that they want. The "full-time labor force" includes all persons working part-time but who desire full-time work, that is, working part time for economic reasons. Thus, this category consists of persons on full-time schedules; all persons involuntarily working part time regardless of their usual status; 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. Employed persons with a job but not at work are distributed according to whether they usually work on full-time or voluntary part-time schedules.

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-5 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 ori-

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

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.

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 (excluding the incorporated self-employed) who usually work full time on their sole or primary job.

Median earnings indicate the value which divides the earnings distribution into two equal parts, one part having values above the median and the other having values below the median. The medians as shown in this publication are calculated by linear interpolation of the \$50 centered interval within which each median falls.

Data expressed in constant dollars are deflated by the Consumer Price Index for All Urban Consumers (CPI-U).

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 birth, marriage, or adoption; all such persons are considered as members of one family even though they may include a related subfamily, that is, a married couple or a parent-child group related by birth or marriage to the householder and sharing the living quarters. The

count of families used in this publication excludes unrelated subfamilies such as 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.

Poverty areas are defined as those census tracts in tracted areas, and Minor Civil Division's (MCD's) in untraced areas, in which 20 percent or more of the noninstitutional residents were poor according to the 1980 decennial census. Persons were classified as poor or nonpoor by comparing money income to a series of poverty income thresholds which vary by family size and number of children. 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 Metropolitan Statistical Areas (MSA's) as defined by the Office of Management and Budget (OMB) as of June 30, 1983. These definitions differ from those used in the 1980 decennial census. A detailed discussion of the MSA definitions as well as changes in terminology can be found in "The New Metropolitan Area Definitions" section of the *1980 Census of Population Supplementary Report on Metropolitan Statistical Areas*, PC-S1-18. Nonmetropolitan areas consist of the total territory outside MSA's.

The *urban population*, as defined for the 1980 census, comprises all persons living in urbanized areas and in places of 2,500 or more inhabitants outside urbanized areas. More specifically, the urban population consists of all persons living in (1) places of 2,500 or more inhabitants incorporated as cities, villages, boroughs (except in Alaska and New York), and towns (except in the New England States, New York, and Wisconsin), but excluding those persons living in the rural portions of extended cities; and (2) other territories, incorporated and unincorporated, included in urbanized areas. The population not classified as urban constitutes the rural population.

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 existed 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 "Revisions in the Current Population Survey 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 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 were 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 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 were only slight differences between the old and new procedures in estimates of levels for the various labor force characteristics and virtually no differences in estimates of participation rates.

Beginning in January 1985, most of the steps of the CPS estimation procedure—the noninterview adjustment, the first and second-stage ratio adjustments, and the composite

estimator—were revised. These procedures are described in the Estimating Methods section. A description of the changes and an indication of their effect on national estimates of labor force characteristics appear in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985" in the February 1985 issue of this publication. Overall, the revisions had only a slight effect on most estimates. The greatest impact was on estimates of persons of Hispanic origin. Major estimates were revised back to January 1980.

Beginning in January 1986, the population controls used in the second-stage ratio adjustment methodology were revised to reflect an explicit estimate of the number of undocumented immigrants (largely Hispanic) since 1980 and an improved estimate of the number of emigrants among legal foreign-born residents for the same time period. As a result, the total civilian population and labor force estimates were raised by nearly 400,000; civilian employment was increased by about 350,000. The Hispanic-origin civilian population and labor force estimates were raised by about 425,000 and 305,000, respectively, and civilian employment by 270,000. Overall and subgroup unemployment levels and rates were not significantly affected. Because of the magnitude of the adjustments for Hispanics, data have been revised back to January 1980 to the extent possible. An explanation of the changes and their effect on estimates of labor force characteristics appear in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986" in the February 1986 issue of this publication.

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 system 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 a much less 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. In October 1978, a coverage improvement sample, composed of approximately 450 sample household units which represented 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates in order to provide coverage of mo-

mobile homes and new construction units that previously had no chance for selection in the CPS sample selected from the 1970 census frame. 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.

Beginning in 1985, a new State-based CPS sample was selected based on 1980 census information rather than 1970 census information. The selection of new sample areas provided an opportunity to improve the efficiency of the sample design. Sample areas chosen to replace incoming sample areas account for only 10 percent of the national estimate. The new CPS sample has resulted in increased reliability for State estimates with a slightly reduced sample size. The reliability of national estimates is unaffected. Sample households are chosen from 729 sample areas, which represent 1,973 geographic areas in the United States. This current number of sample areas is not completely comparable to the old number of sample areas since many of the sample areas have been redefined. (See pp. 7-10 of the May 1984 issue of *Employment and Earnings*, for an overview of these new definitions and the introduction of the new sample.)

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 by the inverse of the probability of the person being in the sample. This gives a rough measure of the number of actual persons that the sample person represents. Beginning in 1985, almost all sample persons within the same State have the same probability of selection. These estimates are then adjusted for noninterviews, 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 respondents for other reasons. This noninterview adjustment is made separately by combinations of similar sample areas that are not necessarily contained within a State. Similarity of sample areas is based on Metropolitan Statistical Area (MSA) status and size. Within

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 .	21,000	68	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956 .	21,000	230	500-1,000	3,000-3,500
May 1956 to Dec. 1959 .	33,500	¹ 330	1,500	6,000
Jan. 1960 to Feb. 1963 .	33,500	² 333	1,500	6,000
Mar. 1963 to Dec. 1966 .	33,500	357	1,500	6,000
Jan. 1967 to July 1971 .	48,000	449	2,000	8,500
Aug. 1971 to July 1972 .	45,000	449	2,000	8,000
Aug. 1972 to Dec. 1977 .	45,000	461	2,000	8,000
Jan. 1978 to Dec. 1979 .	53,500	614	2,500	10,000
Jan. 1980 to Apr. 1981 .	62,200	629	2,800	12,000
May 1981 to Dec. 1984 .	57,800	629	2,500	11,000
Jan. 1985 to present	57,000	729	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.

each combination of sample areas there is a further breakdown by residence. MSA sample areas are categorized by "central city" and "balance of the MSA". Residence categories of non-MSA areas are "urban" and "rural". The proportion of sample households not interviewed varies from 4 to 5 percent, depending on weather, vacation, 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 729 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 adjustment is made at the State level for each of the 43 States which contain nonsample areas by race cells of black and non-black. The procedure corrects for differences that existed in each cell at the time of the 1980 census between the race distribution of the population in sample areas and the known race distribution of the State.

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 undercoverage relative to the decennial census, is carried out in three steps. In the first step, the sample estimates are adjusted within each State and the District of Columbia to an independent control for the population 16 years and over. The second step involves an adjustment by Hispanic origin to a national estimate for eight age-sex categories by Hispanic and non-Hispanic. In the third step, a national adjustment is made by the race categories of white, black, and other races to independent estimates by age and sex. The white and black categories contain 32 age-sex groups each; the other races category has 6 age-sex cells. 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- origin categories will be virtually equal to the independent population control totals. This second-stage adjustment procedure incorporates changes instituted in January 1985. The nature and effect of these changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985" in the February 1985 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, see Report 640 of that series. A description of the age estimates methodology is available on request from the Chief of the Population Division, U.S. Bureau of the Census, Washington, D.C. 20233.

Prior to January 1985, there was no separate control for Hispanics in the second-stage ratio procedure. These Hispanic controls are prepared by carrying forward the 1980 census count for Hispanics by adding estimated Hispanic births and immigrants and subtracting estimated Hispanic deaths

and emigrants to yield an estimate of the Hispanic population by age and sex.

During the period from January 1982 to December 1984, the "inflation-deflation" method was temporarily discontinued in the preparation of the independent national controls used for the age-sex-race groups in the third step of the second-stage ratio estimation procedure. These controls were prepared by carrying forward the 1980 census data after taking account of subsequent aging of the population, births, deaths, and net migration and then subtracting the estimate for the institutional population and Armed Forces. Beginning in January 1985, the "inflation-deflation" method of deriving independent population controls was reintroduced into the CPS estimation procedure. With the "inflation-deflation" method, the independent controls are prepared by inflating the 1980 census counts to include estimated undercounts by age, sex and race, aging this population forward to each subsequent month and later age by adding births and net migration, and subtracting deaths. These post-censal population estimates are then deflated to census level to reflect the pattern of net undercount in the most recent census by age, sex, and race. Because an estimate of undercount is first added and then subtracted, the size of each race-sex group is unaffected by the "inflation-deflation" method. Similarly, the final estimate is affected only by the age structure of the undercount, but not the level. This feature of the method is important since the exact amount of undercount in the 1980 census remains unknown.

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.

Beginning in January 1986, two changes were introduced into the estimation of the independent population controls. For the first time, an explicit allowance for net undocumented immigration since April 1, 1980 (the census date) was added to the estimated level of legal immigration. In addition, an increase in the estimate of emigration of legal foreign-born residents has been incorporated into the postcensal population estimates since 1980. The nature and effect of these changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986" in the February 1986 issue of *Employment and Earnings*.

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. Also included is an additional term which is an estimate of the net difference between incoming and continuing parts of the current month's sample. Almost all estimates of month-to-month change are improved by this procedure, and most estimates of level 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 represent all sample households and all persons within sample households (undercoverage).

Nonsampling errors occurring in the interview phase of the survey have been studied by means of a reinterview program. This program is used to estimate various sources of error as well as to evaluate and control the work of the interviewers. A random sample of each interviewer's work is inspected through reinterview at regular intervals. The results indicate, among other things, that the data published from the CPS are subject to moderate systematic biases. A description of the CPS reinterview program and some of the other results may be found in the *Current Population Survey Reinterview Program*,

January 1961 Through December 1966, Technical Paper No. 19, Bureau of the Census, U.S. Department of Commerce.

The effects of some components of nonsampling error in the CPS data can be examined as a result of the rotation plan used for the sample, since the level of the estimates varies by rotation group. A description of these effects appears in "The 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 6 percent. It is known that the CPS undercoverage varies with age, sex, race, and Hispanic origin. Generally, undercoverage is larger for men than for women, and larger for blacks, Hispanics, and other races combined than for whites. Ratio estimation to independent age-sex-race-Hispanic origin 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-Hispanic origin 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 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 are 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 are 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 table 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 non-consecutive 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

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	244	187
Employed	263	200
Unemployed	131	134
Men, 20 years and over:		
Civilian labor force	148	127
Employed	162	141
Unemployed	89	91
Women, 20 years and over:		
Civilian labor force	189	140
Employed	190	144
Unemployed	82	85
Both sexes, 16 to 19 years:		
Civilian labor force	83	91
Employed	86	97
Unemployed	57	63
Black, 16 years and over:		
Civilian labor force	82	63
Employed	92	70
Unemployed	65	67
Men, 20 years and over:		
Civilian labor force	49	43
Employed	56	50
Unemployed	43	46
Women, 20 years and over:		
Civilian labor force	67	44
Employed	67	48
Unemployed	43	46
Both sexes, 16 to 19 years:		
Civilian labor force	33	37
Employed	30	34
Unemployed	30	32

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

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

Illustration. Assume that in a given month the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table D shows that the standard error on an estimate of 12,000,000 is about 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

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)	0.11	0.12			
Men, 20 years and over . . . . .	.15	.15			
Women, 20 years and over . . . . .	.17	.18			
Both sexes, 16 to 19 years . . . . .	.65	.77			
White workers . . . . .	.11	.12			
Black workers . . . . .	.52	.54			
Married men, spouse present . . . . .	.15	.16			
Married women, spouse present . . . . .	.21	.23			
Full-time workers . . . . .	.12	.12			
Part-time workers . . . . .	.34	.42			
Unemployed 15 weeks and over . . . . .	.06	.08			
			Occupation—Continued		
			Precision production, craft, and repair	0.32	0.35
			Machine operators, assemblers, and inspectors . . . . .	.50	.57
			Transportation and material moving . . . . .	.57	.64
			Handlers, equipment cleaners, helpers, and laborers . . . . .	.70	.80
			Farming, forestry, and fishing . . . . .	.65	.73
			Industry		
			Nonagricultural private wage and salary workers . . . . .	.13	.14
			Mining	1.37	1.56
			Construction . . . . .	.65	.74
			Manufacturing . . . . .	.27	.30
			Durable goods . . . . .	.34	.38
			Nondurable goods . . . . .	.42	.48
			Transportation, communications, and public utilities . . . . .	.41	.46
			Wholesale and retail trade . . . . .	.26	.29
			Finance and services . . . . .	.20	.22
			Government workers . . . . .	.18	.19
			Agricultural wage and salary workers	1.22	1.40
Occupation					
Executive, administrative, and managerial . . . . .	.21	.24			
Professional specialty . . . . .	.18	.20			
Technicians and related support . . . . .	.49	.55			
Sales . . . . .	.29	.32			
Administrative support, including clerical . . . . .	.24	.26			
Private household	1.07	1.20			
Protective service . . . . .	.67	.76			
Service, except private household and protective . . . . .	.38	.43			

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 percentage 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 in different 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

Table D. Standard errors for estimates of monthly level

(in thousands)

Estimated monthly level	Characteristic ¹								
	Agricultural employment	Unemployment		Labor force data other than agricultural employment and unemployment					
		Total or white	Black	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
50	14	10	11	11	11	11	11	10	10
100	19	15	16	15	15	15	15	14	14
500	43	33	35	34	34	33	29	32	31
1,000	61	47	49	48	47	46	33	45	42
2,000	85	66	67	68	64	63	-	63	55
4,000	120	93	88	95	84	80	-	87	66
6,000	146	113	99	116	94	86	-	105	58
8,000	-	129	-	133	97	83	-	120	23
10,000	-	143	-	147	94	70	-	132	-
15,000	-	172	-	177	50	-	-	155	-
20,000	-	195	-	201	-	-	-	170	-
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

of 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							
	Unemployment				Labor force data other than unemployment and agricultural employment			
	Total or white	Both sexes 16 to 19 years, or part-time labor force ²	Black	Black, 16 to 19 years	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years
50	12	13	12	12	8	8	13	13
100	16	18	17	18	11	11	18	18
500	37	40	38	35	25	25	39	34
1,000	51	54	52	37	36	35	54	36
2,000	72	70	69		50	47	72	
4,000	99	78	85		70	62	88	
6,000	118	60	87		86	70	88	
8,000	132	-			98	73	71	
10,000	143				109	71		
15,000	160				131	42		
20,000	165				148			
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.

a year prior to this the unemployment rate was 6.1 percent, based on a total of 94,254,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.5 percent with a base of 94,965,000, is obtained from table F (0.12 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 x 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:

Standard error of year-to-year change =

$$\sqrt{\left(\frac{\text{Standard error}}{x}\right)^2 + \left(\frac{\text{Standard error}}{y}\right)^2 - 2(P) \left(\frac{\text{Standard error}}{x}\right) \left(\frac{\text{Standard error}}{y}\right)}$$

X is the estimate for one quarter and Y is the estimate for another quarter. The coefficient, P, is a measure of the corre-

lation 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 0.30 for persons (total, white, and black) and 0.35 for families (total, white, and black). The respective values for estimates of Hispanics are 0.45 and 0.55.

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 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	.68	.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	8.69	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	1.63	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	.98	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:			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, 16 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:					
Total or white	1.30	.88	.88	.67	.70
Black 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	.88	.39	.54

Table K. Standard errors for estimates of quarterly levels, 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	38	38	34	38	38	37	34	33
750 .	42	47	46	42	47	47	45	42	41
1,000 .	48	54	53	48	54	54	50	48	46
1,500 .	59	66	63	59	66	66	59	59	56
2,000 .	68	76	72	68	76	76	65	68	63
2,500 .	76	85	79	75	84	84	69	75	69
3,000 .	83	93	85	82	92	92	71	82	74
5,000 .	107	119	100	105	117	116	64	105	85
7,500 .	130	145	107	127	140	138		127	
10,000 .	149	165	102	144	157	155		145	
15,000 .	180	198	-	187	183	179		173	
20,000 .	205	224		192	199	193		195	
25,000 .	226	244		207	209	199		211	
30,000 .	224	261		219	212	198		224	
40,000 .	273	286		236	201	174		242	
50,000 .	296	301		-	-			-	
75,000 .	331	304							
100,000 .	343	255							

Establishment Data (Tables B-1 through C-8)

COLLECTION

Payroll reports provide current information on wage and salary employment and hours and earnings in nonagricultural establishments, by industry and geographic location. Historical statistics are published in *Employment, Hours, and Earnings, United States, 1909-84*, and *Employment, Hours, and Earnings, States and Areas, 1939-82* and their supplements.

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. Salaried officers of corporations are included. Government employment covers only civilian employees; military personnel are excluded. Employees of the Central Intelligence Agency and the National Security Agency also are 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.

Indexes of diffusion of changes in number of employees on nonagricultural payrolls. These indexes measure the percent of industries which posted increases in employment over the specified time span. The indexes are calculated from 185 seasonally adjusted employment series (two-digit non-manufacturing 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 issue of *Employment and Earnings*.

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, inspecting, receiving, storing, 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 operations.

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, vacation, 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 cover hours worked by production or related workers for which overtime premiums were paid because the hours were in excess of the number of hours of either the straight-time workday or the workweek during the pay period which included 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.

Average weekly hours. The workweek information relates to the average hours for which pay was received and is differ-

ent from standard or scheduled hours. Such factors as unpaid absenteeism, labor turnover, part-time work, and stoppages cause average weekly hours to be lower than scheduled hours of work for an establishment. Group averages further reflect changes in the workweek of component industries.

Indexes of aggregate weekly hours. The indexes of aggregate weekly hours are prepared by dividing the current month's aggregate by the average of the 12 monthly figures for 1977. For basic industries, the hours aggregates are the product of average weekly hours and production worker or nonsupervisory worker employment. At all higher levels of industry aggregation, hours aggregates are the sum of the component aggregates.

Average overtime hours. The overtime hours represent that portion of the 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, 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 work stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on average hours.

Average hourly 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 production worker, construction worker, or nonsupervisory employee definitions.

Average hourly earnings, including lump-sum wage payments. This series is compiled only for aircraft manufactur-

ing, SIC 3721. The same concepts and estimation methods apply to this series as apply to the average hourly earnings series described above; the one difference between the two series is definitional. The payroll data used to calculate this series include lump-sum payments made to production workers in lieu of general wage rate increases; such payments are excluded from the definition of gross payrolls used to calculate the other average hourly earnings series.

For each sample establishment in SIC 3721 covered by a lump-sum agreement, the reported payroll data are adjusted to include a prorated portion of the lump-sum payment. Such payments are generally made once a year and cover the following 12-month period. In order to spread the payment across this time period, a prorated portion of the payment is added to the payroll each month. This prorated portion is adjusted by an exit rate to reduce the lump-sum amount to account for persons who received the payment but left before the payment allocation period expired.

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. No adjustments are made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

Railroad 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. Average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by the number of employees, as defined above. Average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

Average weekly earnings. These estimates are derived by multiplying average weekly hours estimates by average hourly earnings estimates. Therefore, weekly earnings are affected not only by changes in average hourly earnings but also by changes in the length of the workweek. Monthly variations in such factors as the 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-time trends of 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.

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).

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, bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past benchmark comparisons. Beginning with data for April 1983, these factors are modified by changes in the sample link relatives for the most recent quarter. 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 non-supervisory worker data are used to weight the hours and earnings for aggregation 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 benchmarks (comprehensive counts of employment) for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1986 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by State agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonagricultural payrolls in the United States. Benchmark data for the residual are obtained

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

Employment, hours, and earnings	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry level (division and, where stratified, industry)
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.
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.
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.
Average weekly earnings .	Product of average weekly hours and average hourly earnings.	Product of 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.
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.
Average hourly earnings .	Annual total of aggregate payrolls (product of production or nonsupervisory worker employment by weekly hours and hourly earnings) divided by annual aggregate hours.	Annual total of aggregate payrolls divided by annual aggregate hours.
Average weekly earnings .	Product of average weekly hours and average hourly earnings.	Product of average weekly hours and average hourly earnings.

¹ The estimates are computed by multiplying the above product by bias adjustment factors, which compensate for the underrepresentation of newly formed enterprises and other sources of bias in the sample.

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.

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 1986 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 establishment survey 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 larger percent of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments, with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is

Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1986

Industry	Benchmark	Estimate	Percent difference
Total	98,150	98,617	-0.5
Mining	832	842	-1.2
Construction	4,415	4,441	-6
Manufacturing	18,945	19,148	-1.1
Transportation and public utilities	5,200	5,215	-3
Wholesale trade	5,695	5,803	-1.9
Retail trade	17,327	17,418	-5
Finance, insurance, and real estate	6,140	6,144	-1
Services	22,650	22,593	.3
Government	16,946	17,013	-4

¹Less than 0.05 percent.

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 establishment survey 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.

Table N. Approximate size and coverage of BLS employment and payrolls sample, March 1986¹

Industry	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	249,800	37,762,000	38
Mining	3,700	319,000	38
Construction	23,100	840,000	19
Manufacturing	51,100	10,018,000	53
Transportation and public utilities	11,600	2,380,000	46
Wholesale trade	21,900	978,000	17
Retail trade	42,900	3,352,000	19
Finance, insurance, and real estate	17,700	2,135,000	35
Services	53,300	5,362,000	24
Government:			
Federal ²	5,000	2,908,000	100
State	4,800	3,194,000	80
Local	14,700	6,276,000	62

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 62 percent of employment in Federal establishments.

Reliability

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 accumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table 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

Table O. Average benchmark revision in employment estimates and relative errors for average weekly hours and average hourly earnings by industry

(In percent)

Industry	Average benchmark revision in estimates of employment ¹	Relative error ²	
		Average weekly hours	Average hourly earnings
Total	0.2		
Total private	.3	0.1	0.2
Mining	2.7	1.0	1.3
Construction	1.2	.2	.5
Manufacturing	.7	.1	.2
Durable goods	.8	.1	.3
Nondurable goods	.7	.1	.2
Transportation and public utilities	.4	.7	.6
Wholesale trade	.7	.2	.4
Retail trade	1.0	.2	.4
Finance, insurance, and real estate	.2	.2	.4
Services	.2	.4	.6
Government ³	.4	—	—

¹ The average percent revision in employment for the 1982-86 benchmarks.

² Relative errors relate to 1982 data.

³ Estimates for government are based on a total count for Federal Government provided by the Office of Personnel Management and a sample of State and local government reports.

relative errors of the estimate. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors for major industries are presented in table O and for individual industries with the specified number of employees in table P. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

One measure of the reliability of the employment estimates for individual industries is the root-mean-square error (RMSE). The measure is the standard deviation adjusted for the bias in estimates:

$$RMSE = \sqrt{(\text{standard deviation})^2 + (\text{bias})^2}$$

If the bias is small, the chances are about 2 out of 3 that an estimate from the sample would differ from its benchmark by less than the root-mean-square error. The chances are about 19 out of 20 that the difference would be less than twice the root-mean-square error.

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.

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.

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 error 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.

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 at 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.

Table Q. Errors of preliminary employment estimates

Industry	Root-mean-square error of—		Industry	Root-mean-square error of—	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Total	110,800	104,900	Nondurable goods—Continued		
Total private ¹	67,400	61,600	Chemicals and allied products	2,400	2,300
Goods producing	29,300	24,100	Petroleum and coal products	1,300	1,300
Mining	5,300	5,100	Rubber and misc. plastics products	2,100	2,000
Oil and gas extraction	4,200	4,100	Leather and leather products	2,300	2,200
Construction	18,100	14,000	Service-producing industries	100,500	98,400
General building contractors	6,500	4,900	Transportation and public utilities	15,700	13,800
Manufacturing	22,800	22,800	Transportation	18,200	17,400
Durable goods	18,500	17,500	Communication and public utilities	6,600	6,200
Lumber and wood products	3,100	2,600	Wholesale trade	9,000	8,000
Furniture and fixtures	2,000	1,800	Durable goods	5,800	5,100
Stone, clay, and glass products	2,200	2,100	Nondurable goods	5,300	4,500
Primary metal industries	6,100	5,900	Retail trade	37,500	34,600
Blast furnaces and basic steel products	4,900	4,600	General merchandise stores	20,700	18,700
Fabricated metal products	3,300	2,900	Food stores	6,400	5,800
Machinery, except electrical	7,200	6,400	Automotive dealers and service stations	3,200	3,000
Electrical and electronic equipment	5,600	6,000	Eating and drinking places	17,600	15,200
Transportation equipment	9,200	8,800	Finance, insurance, and real estate	8,400	7,400
Motor vehicles and equipment	8,100	8,600	Finance	4,500	3,800
Instruments and related products	2,100	2,200	Insurance	3,000	2,300
Miscellaneous manufacturing	2,000	2,000	Real estate	4,800	4,100
Nondurable goods	9,900	9,500	Services	33,200	30,500
Food and kindred products	6,300	6,400	Business services	12,200	10,800
Tobacco manufactures	1,700	1,600	Health services	10,600	10,400
Textile mill products	2,200	2,300	Government	73,700	68,400
Apparel and other textile products	6,300	5,600	Federal	17,400	11,300
Paper and allied products	1,500	1,300	State	24,600	23,000
Printing and publishing	2,200	2,100	Local	35,200	32,800

NOTE: Data are based on differences from December 1981 through December 1986.

PRODUCTIVITY DATA (Tables C-9 through C-11)

COLLECTION

Productivity data 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.

CONCEPTS

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 include profits, depreciation, interest, and indirect taxes per unit of output. They are com-

puted 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 households and institutions, owner-occupied housing, and the 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. Historical statistics for most productivity measures appear in *Trends in Multifactor Productivity, 1948-81*, BLS Bulletin 2178. Additional information may be obtained from the Office of Productivity and Technology (202 523-9261).

State and Area Labor Force 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 Partnership Act and the Public Works and Economic Development Act.

Annual average data for the States and areas shown in table D are published in *Employment and Earnings* (usually the May issue). For regions, States, selected metropolitan areas, and central cities, annual average data classified by selected demographic, social, and economic characteristics are

published in the BLS bulletin, *Geographic Profile of Employment and Unemployment*.

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.

ESTIMATING METHODS

The civilian labor force and unemployment estimates in 11 large States: New York, California, Illinois, Ohio, New Jersey, Pennsylvania, Michigan, Texas, Massachusetts,

North Carolina, 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 39 States, the District of Columbia, and over 2,600 labor market areas are prepared in several stages. The civilian 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 civilian 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 residence 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 1980 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 unemployment insurance (UI).

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

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

The estimate of those previously employed in industries not covered by UI is derived by applying to the employment estimate for each 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

the experienced unemployed; (c) the level of the experienced labor force; and (d) the proportion of the working age population that is considered “youth.”

3. *Monthly reconciliation with the CPS*. Each month correction factors for employment and unemployment are applied at the State level to the UI-based estimates obtained above for each of the 39 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). The adjustment is necessary because the State-prepared estimates are not as reliable as the CPS data due to differences in the State UI laws, the structural limitations of the UI-based estimating method, and errors in the UI data.

4. *Substate adjustment for additivity*. Independent estimates of employment and unemployment are prepared for the State (obtained directly from the CPS in the 11 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 sub-State estimates of employment and unemployment add to the independent State totals. In California and New York, which also have sub-State 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 39 States and the District of Columbia for which monthly CPS estimates are not used directly. This adjustment is made because the State-prepared monthly estimates are not as reliable as the CPS annual averages due to the limitations of the 6-month moving average adjustment procedure. Revisions to the inputs used in the UI-based estimates are also made at the time of the annual benchmark.

The State wide 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 11 States for which CPS estimates are used 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 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, January 1983. The X-11 procedure was originally developed at the Bureau of the Census and had been used by the BLS to seasonally adjust labor force series since 1973. Tests have shown that use of the X-11 ARIMA procedure, which places more emphasis on recent data, provides better seasonal adjustments than does the X-11 method alone.

The second change is that seasonal adjustment factors are 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 adjustment 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, new seasonal adjustment factors to be used to calculate the civilian unemployment rate for the first 6 months of the following year, and a description of the current seasonal adjustment methodology are published in each January issue of *Employment and Earnings*. Revised seasonally adjusted data covering the revision period for a broader range of labor force series are published in the February issue of this publication.

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 year's estimates are based on actual data through March 1987 and projected data through March 1988. The ARIMA model options for projecting the data series for 1 year ahead have been used in seasonally adjusting the establishment series since June 1981.

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, wholesale trade, retail 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, however.

Beginning in June 1983, seasonal adjustment factors for Federal Government employment are derived from unadjust-

ed data which include Christmas temporary workers employed by the Postal Service. In earlier years the number of these workers was 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 adjustment factors were based. In the past several years, the number of these workers has decreased to the point where their presence has no impact on seasonal adjustment. Temporary census takers for the 1980 decennial census are removed prior to the calculation of seasonal adjustment factors for Federal Government employment.

The revised seasonally adjusted series for the establishment data reflect experience through March 1987. Seasonal adjustment factors to be used for current adjustment appear in the June 1987 issue of *Employment and Earnings*.

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