



EMPLOYMENT AND EARNINGS

July 1988

U.S. Department of Labor
Bureau of Labor Statistics





U.S. DEPARTMENT OF LABOR

Ann McLaughlin, Secretary

BUREAU OF LABOR STATISTICS

Janet L. Norwood, *Commissioner*

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

Employment and Earnings may be ordered through the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Subscription price per year \$22 domestic and \$27.50 foreign. Single copy \$8.50 domestic and \$10.63 foreign. Annual supplement \$14 domestic and \$17.50 foreign. Prices are subject to change by the U.S. Government Printing Office. For ordering information call (202) 783-3238.

Communications on material in this publication should be addressed to: Editors, *Employment and Earnings*, Bureau of Labor Statistics, Washington, DC 20212, or phone: Gloria P. Green (202) 523-1959. Send correspondence on circulation and subscription matters (including address changes) to the Superintendent of Documents.

Second class postage paid at Washington, DC, and at additional mailing addresses.

Material in this publication is in the public domain and, with appropriate credit, may be reproduced without permission.

ISSN 0013-6840

Calendar of Features

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

Household data

Annual averages Jan.
Union affiliation Jan.

Revised seasonally adjusted series Jan., Feb.

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

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 Supplement¹

State and area annual averages May

Area definitions May

State and area labor force data

Annual averages May

The latest supplement was published in July 1987.

Employment and Earnings

Vol. 35 No. 7 July 1988

Editors: Gloria Peterson Green, Rosalie K. Epstein

Contents

	<i>Page</i>
List of statistical tables	2
Employment and unemployment developments, June 1988	5
New seasonal adjustment factors for household data series .	7
Statistical tables:	
Historical—	
Household data	8
Establishment data:	
Employment	77
Hours and earnings	113
Not seasonally adjusted—	
Household data	11
Quarterly averages	55
Establishment data:	
Employment:	
National	78
State and area	94
Hours and earnings:	
National	116
State and area	138
State and area labor force data	147
Seasonally adjusted—	
Household data	38
Quarterly averages	45
Establishment data:	
Employment	90
Hours and earnings	135
Productivity data	144
Explanatory notes	153

MONTHLY HOUSEHOLD DATA

Page

Employment Status

A- 1.	Employment status of the noninstitutional population 16 years and over, 1954 to date	8
A- 2.	Employment status of the noninstitutional population 16 years and over by sex, 1977 to date	9
A- 3.	Employment status of the civilian noninstitutional population 16 years and over, 1954 to date	10
A- 4.	Employment status of the civilian noninstitutional population by age, sex, and race	11
A- 5.	Employment status of the black-and-other civilian noninstitutional population by sex and age	14
A- 6.	Employment status of the civilian noninstitutional population by race, sex, and age	15
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	16
A- 8.	Employment status of male Vietnam-era veterans and nonveterans by age	18
A- 9.	Employed and unemployed full-and part-time workers by sex, age, and race	19
A-10.	Employment status of persons in families by family relationship	20

Characteristics of the Unemployed

A-11.	Unemployed persons by marital status, race, age, and sex	21
A-12.	Unemployed persons by occupation and sex	22
A-13.	Unemployed persons by industry and sex	23
A-14.	Unemployed persons by reason for unemployment, sex, and race	24
A-15.	Unemployed persons by reason for unemployment, sex, age, and duration of unemployment	25
A-16.	Unemployed persons by duration of unemployment	25
A-17.	Unemployed persons by sex, age, race, marital status, and duration of unemployment	26
A-18.	Unemployed persons by occupation, industry, and duration of unemployment	27
A-19.	Unemployed jobseekers by sex, age, race, and jobsearch methods used	28
A-20.	Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used	28

Characteristics of the Employed

A-21.	Employed civilians in agriculture and nonagricultural industries by age and sex	29
A-22.	Employed civilians by occupation, sex, and age	30
A-23.	Employed civilians by occupation, race, and sex	31
A-24.	Employed civilians by age, sex, and class of worker	32
A-25.	Employed civilians by industry and occupation	33
A-26.	Employed civilians with a job but not at work by reason, sex, and pay status	33
A-27.	Persons at work by hours of work and type of industry	34
A-28.	Persons at work 1 to 34 hours by reason for working less than 35 hours, type of industry, and usual status	34
A-29.	Persons at work in nonagricultural industries by class of worker and full- or part-time status	35
A-30.	Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status	36
A-31.	Persons at work in nonfarm occupations by sex and full- or part-time status	37

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	38
A-33.	Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted	39
A-34.	Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted	40
A-35.	Employed civilians by selected social and economic categories, seasonally adjusted	41
A-36.	Employed civilians by sex and age, seasonally adjusted	42
A-37.	Unemployed persons by sex and age, seasonally adjusted	42
A-38.	Unemployment rates by sex and age, seasonally adjusted	43
A-39.	Selected unemployment indicators, seasonally adjusted	43
A-40.	Unemployed persons by duration of unemployment, seasonally adjusted	44
A-41.	Unemployed persons by reason for unemployment, seasonally adjusted	44

QUARTERLY HOUSEHOLD DATA

Seasonally Adjusted Employment and Unemployment Data

A-42.	Employment status of the noninstitutional population, including Armed Forces stationed in the United States, by sex, seasonally adjusted	45
A-43.	Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted	46
A-44.	Employment status of the civilian noninstitutional population by race, sex, and Hispanic origin, seasonally adjusted	47
A-45.	Employed and unemployed full- and part-time workers by sex and age, seasonally adjusted	49
A-46.	Employed civilians by selected social and economic categories, seasonally adjusted	50
A-47.	Employed civilians by sex and age, seasonally adjusted	51
A-48.	Unemployed persons by sex and age, seasonally adjusted	51
A-49.	Unemployment rates by sex and age, seasonally adjusted	52
A-50.	Selected unemployment indicators, seasonally adjusted	52
A-51.	Unemployed persons by duration of unemployment, seasonally adjusted	53
A-52.	Unemployed persons by reason for unemployment, seasonally adjusted	53

Persons Not in the Labor Force

A-53.	Persons not in the labor force by reason, sex, and race, seasonally adjusted	54
A-54.	Persons not in the labor force by reason, sex, and age	55
A-55.	Persons not in the labor force by reason, race, Hispanic origin, age, and sex	56
A-56.	Persons not in the labor force who desire work but think they cannot get jobs by reason, sex, age, race, and Hispanic origin	57
A-57.	Work-seeking intentions of persons not in the labor force and work history of those who intend to seek work within the next 12 months by sex, age, and race	58

Race and Hispanic Origin Data

A-58.	Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin	59
A-59.	Employment status of persons of Mexican, Puerto Rican, and Cuban origin by sex and age	60
A-60.	Employed civilians by selected social and economic categories, race, and Hispanic origin	61
A-61.	Employed civilians of Mexican, Puerto Rican, and Cuban origin by selected social and economic categories	62
A-62.	Employed civilians by sex, age, race, and Hispanic origin	63
A-63.	Unemployment rates by sex, age, race, and Hispanic origin	63
A-64.	Unemployed persons by duration of unemployment, race, and Hispanic origin	64
A-65.	Unemployed persons by reason for unemployment, race, and Hispanic origin	64

Vietnam-era Veterans and Nonveterans Data

A-66.	Employment status of male Vietnam-era veterans and nonveterans by age	65
A-67.	Employment status of male Vietnam-era veterans and nonveterans by age, race, and Hispanic origin	65

Family Relationship and Weekly Earnings Data

A-68.	Unemployment in families by type of family, race, Hispanic origin, and presence of employed family members	66
A-69.	Unemployed persons by family relationship, race, Hispanic origin, and presence of employed family members	67
A-70.	Employed civilians by family relationship, race, Hispanic origin, and presence of additional employed family members	68
A-71.	Median weekly earnings of families by type of family, number of earners, race, and Hispanic origin	69
A-72.	Families with unemployed members and wage and salary workers by type of family and median weekly earnings	70
A-73.	Median weekly earnings of full-time wage and salary workers by selected characteristics	71
A-74.	Median weekly earnings of part-time wage and salary workers by selected characteristics	72
A-75.	Median weekly earnings of full-time wage and salary workers by occupation and sex	73

Metropolitan–nonmetropolitan and Poverty–nonpoverty Area Data

A-76.	Employment status of the civilian noninstitutional population in metropolitan, nonmetropolitan, urban, and rural areas by sex, age, race, and Hispanic origin	74
A-77.	Employment status of the civilian noninstitutional population in poverty and nonpoverty areas by race and Hispanic origin	76

MONTHLY ESTABLISHMENT DATA

Page

Employment—National

B- 1.	Employees on nonagricultural payrolls by major industry, 1936 to date	77
B- 2.	Employees on nonagricultural payrolls by detailed industry	78
B- 3.	Women employees on nonagricultural payrolls by major industry and manufacturing group	89
B- 4.	Employees on nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	90
B- 5.	Women employees on nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	91
B- 6.	Production or nonsupervisory workers on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	92
B- 7.	Indexes of diffusion: Percent of industries in which employment increased, seasonally adjusted	93

Employment—States and Areas

B- 8.	Employees on nonagricultural payrolls in States and selected areas by major industry	94
-------	--	----

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	113
C- 2.	Average hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls by detailed industry	116
C- 2a.	Average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing	132
C- 3.	Average hourly earnings, excluding overtime, of production workers on manufacturing payrolls	133
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	134
C- 5.	Average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	135
C- 6.	Indexes of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	136
C- 7.	The Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted	137

Hours and Earnings—States and Areas

C- 8.	Average hours and earnings of production workers on manufacturing payrolls in States and selected areas	138
-------	---	-----

PRODUCTIVITY DATA

C- 9.	Hours of wage and salary workers in nonagricultural establishments by major industry, seasonally adjusted	144
C-10.	Indexes of productivity, hourly compensation, unit costs, and prices, seasonally adjusted	145
C-11.	Percent changes from the preceding quarter and year in productivity, hourly compensation, unit costs, and prices, seasonally adjusted annual rates	146

MONTHLY STATE AND AREA LABOR FORCE DATA

D- 1.	Labor force status by State and selected metropolitan areas	147
-------	---	-----

Employment and Unemployment Developments, June 1988

Employment rose markedly in June and unemployment declined. Both the overall and civilian worker jobless rates, which had risen slightly in May, declined three-tenths of a percentage point, to 5.2 and 5.3 percent, respectively.

Nonfarm payroll employment, as measured by the monthly survey of business establishments, rose by 345,000 in June. Job gains occurred in most of the major industry divisions. Total civilian employment, as measured by the monthly survey of households, increased by about 800,000 in June; this followed a decline of 500,000 in May.

Unemployment

The number of unemployed persons fell by 330,000 in June to a seasonally adjusted level of 6.5 million. The civilian worker unemployment rate of 5.3 percent was down from 5.6 percent in May and was the lowest figure since May 1974, when it was 5.1 percent. (See table A-33.)

Adult men accounted for about three-fifths of the drop in unemployment in June, as their jobless rate fell to 4.6 percent. The rest of the decline occurred among teenagers, whose jobless rate dropped 2 full percentage points to 13.6 percent. The unemployment rate for adult women was unchanged at 4.9 percent. There was some improvement in the rates for blacks (11.5 percent) and whites (4.5 percent), while the rate for Hispanics (9.0 percent) was unchanged. The rate for black teenagers fell 6 percentage points to 28.4 percent; this rather volatile measure was still far higher than the 12.0-percent rate for white teens. (See tables A-33 and A-34.)

Civilian employment and the labor force

Civilian employment jumped by 820,000 on a seasonally adjusted basis to 115.0 million, more than offsetting the 500,000 decrease reported between April and May. This large increase was affected in part by the timing of the survey reference period (the week that contains the 12th day of the month) which occurred very late in June, allowing extra time for students, graduates, and seasonal workers to find jobs. Three-fourths of the seasonally adjusted increase occurred among youth 16-24 years of age.

The sharp employment increase in June restored the civilian employment-population ratio to its April high of 62.3 percent. The number of persons working at part-time jobs

for economic reasons—persons who would prefer full-time jobs—rose by 470,000 to 5.3 million in June; this was about the same level as in March. (See tables A-33, A-34, and A-35.)

The civilian labor force rose by 490,000 to 121.5 million in June, with teenagers accounting for about three-fifths of the rise. Over the year, the labor force grew by 1.9 million, about average for the 1980's. (See tables A-33 and A-34.)

Discouraged workers

In the second quarter of 1988, there were 910,000 discouraged workers—persons who were reported as wanting to work but who had not looked for jobs because they believed they could not find any. This number was the same as in the fourth quarter of 1987, after rising a bit in the first quarter of the year. Just under two-thirds of these nonworkers cited job-market conditions as their reason for not seeking work, while the rest cited personal factors (such as age, education, or other personal handicap). (See table A-53.)

Industry payroll employment

Employment in nonagricultural establishments rose by 345,000 in June, reaching 105.8 million, seasonally adjusted. Increases were widespread, occurring in all industry divisions except government. (See table B-4.)

After slowing in May, employment in the goods-producing sector resumed more vigorous growth. Construction employment rose by 55,000, and manufacturing jobs increased by 45,000. Within manufacturing, most of the over-the-month increase was in durable goods, particularly in fabricated metals and machinery.

Employment gains in the service-producing sector totaled 240,000 in June. Increases in services and retail trade industries were especially sharp, totaling 160,000 and 75,000, respectively. Smaller, but noteworthy, increases (25,000 each) also occurred in wholesale trade (especially in the distribution of durable goods) and transportation and public utilities (mostly in the transportation component). The continuing growth in these distributive industries reflects the strength in factory output. Employment in finance, insurance, and real estate rose by 15,000, with the gain concentrated in the real estate component.

Weekly hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls edged up to 34.8 hours in June, seasonally adjusted, while the factory workweek and overtime were unchanged at 41.0 hours and 3.9 hours, respectively. The factory figures continue to be very high by historical standards. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, at 125.3 (1977 = 100), rose 0.7 percent, seasonally adjusted. The index for manufacturing was also up, by 0.4 percent, to 96.1. (See table C-6.)

Hourly and weekly earnings

Average hourly earnings of private production or

nonsupervisory workers were unchanged in June, seasonally adjusted, while average weekly earnings rose by nearly a dollar. Prior to seasonal adjustment, average hourly earnings declined by 2 cents to \$9.23, and average weekly earnings increased by \$3.00 to \$323.05. (See tables C-1 and C-7.)

The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 178.5 (1977 = 100) in June, seasonally adjusted, a decrease of 0.1 percent from May. For the 12 months ended in June, the increase was 3.2 percent. In dollars of constant purchasing power, the HEI decreased 0.5 percent during the 12-month period ending in May. The HEI is computed so as to exclude the effects of two types of changes unrelated to underlying wage rate movements—fluctuations in manufacturing overtime and interindustry employment shifts. (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>
July	August 5	October	November 4
August	September 2	November	December 2
September	October 7	December	January 6

New Seasonal Adjustment Factors for Household Data Series

*Robert J. McIntire

Semiannually, the Bureau of Labor Statistics publishes the factors to be used during the following 6 months for seasonal adjustment of the major labor force series. Table 1 presents these seasonal adjustment factors for the 12 major labor force components for July-December 1988. The factors which were used for these components during the first 6 months of 1988 were published in the January 1988 issue of *Employment and Earnings*. The 12 seasonally adjusted series which result from the application of these factors are used in the computation of the seasonally adjusted figures for the national unemployment level and for the overall and civilian employment and labor force levels and unemployment rates. The overall measures include the resident Armed Forces in the employed segment of the labor force, but seasonal factors are not calculated for the resident Armed Forces data since they are considered to have no seasonal component.

The new seasonal factors have been extrapolated using the X-11 ARIMA program with data through June 1988 for each series. The ARIMA models used were the same as those used at the beginning of the year for the extrapolation of the factors for January through June; they were identified in the January issue of this publication. The historical seasonally adjusted data, including the first 6 months of 1988, will not be revised until the beginning of 1989. More detailed information on the adjustment method, the procedures for aggregation, and the revision of historical data is included in the January 1988 issue in the article entitled "Revision of Seasonally Adjusted Labor Force Series."

* Robert J. McIntire is an economist and Chief of the Data Services Group in the Office of Employment and Unemployment Statistics, Bureau of Labor Statistics.

Data for any of the several hundred seasonally adjusted labor force series and the July-December 1988 factors for any of the other independently adjusted series (there are about 200 in addition to the 12 major components) may be obtained from BLS upon request. Requests for data or inquiries concerning the seasonal adjustment methodology or the availability of machine-readable files of labor force data should be addressed to the Data Services Group, Bureau of Labor Statistics, Washington, DC 20212.

Table 1. Current seasonal adjustment factors for the 12 major civilian labor force components, July-December 1988

Procedure and series	July	Aug.	Sept.	Oct.	Nov.	Dec.
Multiplicative Adjustment (Divide factor into original value)						
Agricultural employment:						
Men, 20 years and over . . .	1.092	1.055	1.040	1.030	.977	.928
Women, 20 years and over . . .	1.200	1.110	1.014	1.048	.977	.893
Men, 16 to 19 years	1.668	1.414	.946	.835	.691	.620
Women, 16 to 19 years	1.936	1.602	.896	.766	.609	.612
Nonagricultural employment:						
Men, 20 years and over	1.008	1.011	1.005	1.006	1.003	1.000
Women, 20 years and over . . . . .	.989	.989	1.002	1.012	1.012	1.010
Unemployment:						
Men, 20 years and over . . . . .	.958	.907	.889	.902	.953	.987
Women, 20 years and over	1.026	1.067	1.063	1.012	.968	.901
Additive Adjustment (Subtract factor from original value)						
Nonagricultural employment:						
Men, 16 to 19 years	855	602	-135	-136	-144	-153
Women, 16 to 19 years	718	546	-184	-108	-108	-32
Unemployment:						
Men, 16 to 19 years	128	-31	-55	-49	-35	-42
Women, 16 to 19 years	120	-39	-11	-4	-15	-115

**HOUSEHOLD DATA
HISTORICAL**

A-1. Employment status of the noninstitutional population 16 years and over, 1954 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												
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 ¹	122,214	72,675	59.5	68,763	2,061	66,702	4,944	61,759	3,911	5.4	49,539	
1963	124,422	73,839	59.3	69,768	2,006	67,762	4,687	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 ¹	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 ¹	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 ¹	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752	
1987	184,490	121,602	65.9	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888	
Monthly data, seasonally adjusted²												
1987:												
June	184,421	121,326	65.8	114,018	1,718	112,300	3,192	109,108	7,308	6.0	63,095	
July	184,605	121,610	65.9	114,359	1,720	112,639	3,212	109,427	7,251	6.0	62,995	
August	184,738	122,042	66.1	114,786	1,736	113,050	3,143	109,907	7,256	5.9	62,696	
September	184,904	121,706	65.8	114,615	1,743	112,872	3,184	109,688	7,091	5.8	63,198	
October	185,052	122,128	66.0	114,951	1,741	113,210	3,249	109,961	7,177	5.9	62,924	
November	185,225	122,349	66.1	115,259	1,755	113,504	3,172	110,332	7,090	5.8	62,876	
December	185,370	122,472	66.1	115,494	1,750	113,744	3,215	110,529	6,978	5.7	62,898	
1988:												
January	185,571	122,924	66.2	115,878	1,749	114,129	3,293	110,836	7,046	5.7	62,647	
February	185,705	123,084	66.3	116,145	1,736	114,409	3,228	111,182	6,938	5.6	62,621	
March	185,847	122,639	66.0	115,839	1,736	114,103	3,204	110,899	6,801	5.5	63,208	
April	185,964	123,055	66.2	116,445	1,732	114,713	3,228	111,485	6,610	5.4	62,909	
May	186,088	122,692	65.9	115,909	1,714	114,195	3,035	111,160	6,783	5.5	63,396	
June	186,247	123,157	66.1	116,703	1,685	115,018	3,085	111,933	6,455	5.2	63,090	

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, 1977 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												
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	
1987	88,476	67,784	76.6	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692	
Monthly data, seasonally adjusted²												
1987:												
June	88,442	67,623	76.5	63,543	1,559	61,984	2,530	59,454	4,080	6.0	20,819	
July	88,534	67,671	76.4	63,711	1,561	62,150	2,547	59,603	3,960	5.9	20,863	
August	88,598	67,937	76.7	63,916	1,575	62,341	2,489	59,852	4,021	5.9	20,661	
September	88,683	67,776	76.4	63,949	1,581	62,368	2,547	59,821	3,827	5.6	20,907	
October	88,756	67,947	76.6	64,048	1,580	62,468	2,569	59,899	3,899	5.7	20,809	
November	88,849	68,019	76.6	64,174	1,593	62,581	2,491	60,090	3,845	5.7	20,830	
December	88,924	68,030	76.5	64,245	1,589	62,656	2,523	60,133	3,785	5.6	20,894	
1988:												
January	89,033	68,243	76.6	64,396	1,588	62,808	2,593	60,216	3,847	5.6	20,790	
February	89,099	68,343	76.7	64,636	1,577	63,059	2,510	60,548	3,707	5.4	20,756	
March	89,168	68,148	76.4	64,332	1,573	62,759	2,474	60,285	3,816	5.6	21,020	
April	89,225	68,445	76.7	64,892	1,569	63,323	2,467	60,856	3,553	5.2	20,780	
May	89,287	68,318	76.5	64,583	1,553	63,030	2,391	60,639	3,736	5.5	20,969	
June	89,367	68,429	76.6	64,934	1,523	63,411	2,422	60,988	3,495	5.1	20,938	
Annual averages												
WOMEN												
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	
1987	96,013	53,818	56.1	50,494	160	50,334	666	49,668	3,324	6.2	42,195	
Monthly data, seasonally adjusted²												
1987:												
June	95,979	53,703	56.0	50,475	159	50,316	662	49,654	3,228	6.0	42,276	
July	96,071	53,939	56.1	50,648	159	50,489	665	49,824	3,291	6.1	42,132	
August	96,140	54,105	56.3	50,870	161	50,709	654	50,055	3,235	6.0	42,035	
September	96,221	53,930	56.0	50,666	162	50,504	637	49,867	3,264	6.1	42,291	
October	96,295	54,181	56.3	50,903	161	50,742	680	50,062	3,278	6.1	42,114	
November	96,376	54,330	56.4	51,085	162	50,923	681	50,242	3,245	6.0	42,046	
December	96,446	54,442	56.4	51,249	161	51,088	692	50,396	3,193	5.9	42,004	
1988:												
January	96,538	54,681	56.6	51,482	161	51,321	700	50,621	3,200	5.9	41,857	
February	96,606	54,740	56.7	51,509	159	51,350	717	50,633	3,231	5.9	41,866	
March	96,679	54,491	56.4	51,507	163	51,344	730	50,614	2,985	5.5	42,188	
April	96,739	54,610	56.5	51,553	163	51,390	761	50,629	3,057	5.6	42,129	
May	96,801	54,374	56.2	51,327	161	51,166	645	50,521	3,047	5.6	42,427	
June	96,880	54,728	56.5	51,769	162	51,607	662	50,944	2,960	5.4	42,152	

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, 1954 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								
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
1987	182,753	119,865	65.6	112,440	7,425	6.2	6.2	6.2
Monthly data, seasonally adjusted ²								
1987:								
June	182,703	119,608	65.5	112,300	7,308	6.1	6.2	6.0
July	182,885	119,890	65.6	112,639	7,251	6.0	6.0	6.1
August	183,002	120,306	65.7	113,050	7,256	6.0	6.1	6.0
September	183,161	119,963	65.5	112,872	7,091	5.9	5.8	6.1
October	183,311	120,387	65.7	113,210	7,177	6.0	5.9	6.1
November	183,470	120,594	65.7	113,504	7,090	5.9	5.8	6.0
December	183,620	120,722	65.7	113,744	6,978	5.8	5.7	5.9
1988:								
January	183,822	121,175	65.9	114,129	7,046	5.8	5.8	5.9
February	183,969	121,348	66.0	114,409	6,938	5.7	5.6	5.9
March	184,111	120,903	65.7	114,103	6,801	5.6	5.7	5.5
April	184,232	121,323	65.9	114,713	6,610	5.4	5.3	5.6
May	184,374	120,978	65.6	114,195	6,783	5.6	5.6	5.6
June	184,562	121,472	65.8	115,018	6,455	5.3	5.2	5.4

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	June 1988										
	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	184,562	123,028	66.7	116,209	6,819	5.5	61,534	28,572	3,852	3,360	25,751
16 to 19 years	14,534	9,474	65.2	7,887	1,588	16.8	5,060	562	2,303	41	2,154
16 to 17 years	7,320	4,020	54.9	3,192	828	20.6	3,300	209	1,552	17	1,522
18 to 19 years	7,215	5,454	75.6	4,695	760	13.9	1,761	354	751	24	632
20 to 24 years	18,508	15,098	81.6	13,772	1,326	8.8	3,409	1,551	796	111	951
25 to 54 years	101,318	83,467	82.4	79,974	3,493	4.2	17,850	12,451	720	1,283	3,395
25 to 34 years	42,584	35,403	83.1	33,499	1,905	5.4	7,181	5,077	455	372	1,277
25 to 29 years	21,283	17,746	83.4	16,709	1,037	5.8	3,538	2,395	282	171	688
30 to 34 years	21,301	17,658	82.9	16,789	867	4.9	3,644	2,681	172	201	590
35 to 44 years	34,729	29,094	83.8	28,075	1,020	3.5	5,634	4,011	209	378	1,037
35 to 39 years	18,807	15,685	83.4	15,089	595	3.8	3,123	2,284	122	190	545
40 to 44 years	15,921	13,410	84.2	12,985	424	3.2	2,511	1,746	87	188	491
45 to 54 years	24,004	18,970	79.0	18,400	570	3.0	5,034	3,363	56	535	1,080
45 to 49 years	12,926	10,562	81.7	10,247	314	3.0	2,364	1,669	27	228	441
50 to 54 years	11,079	8,408	75.9	8,153	254	3.0	2,670	1,694	30	307	640
55 to 64 years	21,626	11,645	53.8	11,323	322	2.8	9,982	4,878	19	798	4,287
55 to 59 years	10,852	7,045	64.9	6,844	201	2.9	3,807	2,147	14	388	1,258
60 to 64 years	10,774	4,600	42.7	4,479	121	2.6	6,174	2,731	5	410	3,029
65 years and over ..	28,577	3,343	11.7	3,253	90	2.7	25,234	9,130	14	1,126	14,963
65 to 69 years	9,813	2,021	20.6	1,949	72	3.6	7,792	2,874	5	249	4,664
70 to 74 years	7,689	835	10.9	824	9	1.1	6,855	2,549	4	213	4,088
75 years and over ..	11,075	488	4.4	480	9	1.8	10,587	3,707	5	664	6,211
Men											
16 years and over ..	87,844	68,101	77.5	64,473	3,628	5.3	19,743	547	1,925	1,985	15,286
16 to 19 years	7,318	4,967	67.9	4,122	845	17.0	2,351	52	1,208	25	1,066
16 to 17 years	3,737	2,127	56.9	1,688	440	20.7	1,610	25	803	6	777
18 to 19 years	3,581	2,839	79.3	2,435	405	14.3	741	27	405	20	289
20 to 24 years	8,968	7,942	88.6	7,288	654	8.2	1,026	21	409	68	527
25 to 54 years	49,536	46,343	93.6	44,475	1,868	4.0	3,194	192	304	906	1,791
25 to 34 years	20,926	19,711	94.2	18,686	1,025	5.2	1,216	75	216	281	644
25 to 29 years	10,446	9,783	93.7	9,228	555	5.7	663	32	129	123	378
30 to 34 years	10,481	9,928	94.7	9,458	469	4.7	553	42	86	158	267
35 to 44 years	16,980	16,030	94.4	15,505	525	3.3	950	44	78	278	551
35 to 39 years	9,220	8,731	94.7	8,422	309	3.5	489	23	31	141	294
40 to 44 years	7,760	7,299	94.1	7,083	216	3.0	461	21	47	137	256
45 to 54 years	11,630	10,602	91.2	10,284	318	3.0	1,028	73	11	348	596
45 to 49 years	6,276	5,854	93.3	5,689	165	2.8	422	30	2	139	251
50 to 54 years	5,354	4,748	88.7	4,595	152	3.2	606	43	9	209	345
55 to 64 years	10,183	6,784	66.6	6,580	204	3.0	3,399	79	3	520	2,797
55 to 59 years	5,167	4,090	79.2	3,965	125	3.1	1,077	24	3	272	778
60 to 64 years	5,016	2,694	53.7	2,615	79	2.9	2,322	54	1	248	2,018
65 years and over ..	11,839	2,065	17.4	2,007	58	2.8	9,774	204	1	465	9,105
65 to 69 years	4,456	1,202	27.0	1,155	47	3.9	3,254	61		144	3,049
70 to 74 years	3,310	526	15.9	520	4	8	2,785	47		105	2,632
75 years and over ..	4,073	337	8.3	331	7	2.0	3,736	96		216	3,424
Women											
16 years and over ..	96,718	54,927	56.8	51,736	3,191	5.8	41,791	28,024	1,926	1,375	10,466
16 to 19 years	7,216	4,507	62.5	3,764	743	16.5	2,709	510	1,095	15	1,088
16 to 17 years	3,582	1,893	52.8	1,504	388	20.5	1,690	184	749	11	746
18 to 19 years	3,634	2,615	71.9	2,260	355	13.6	1,019	326	346	5	343
20 to 24 years	9,540	7,156	75.0	6,484	672	9.4	2,384	1,529	387	43	424
25 to 54 years	51,782	37,124	71.7	35,498	1,626	4.4	14,656	12,259	416	377	1,604
25 to 34 years	21,658	15,692	72.5	14,813	880	5.6	5,965	5,002	239	91	633
25 to 29 years	10,837	7,963	73.5	7,481	482	6.0	2,875	2,363	153	48	310
30 to 34 years	10,820	7,730	71.4	7,331	398	5.2	3,091	2,639	86	43	323
35 to 44 years	17,749	13,064	73.6	12,570	495	3.8	4,684	3,967	131	100	487
35 to 39 years	9,587	6,954	72.5	6,667	286	4.1	2,634	2,242	91	49	251
40 to 44 years	8,161	6,111	74.9	5,902	208	3.4	2,050	1,725	40	51	235
45 to 54 years	12,375	8,368	67.6	8,116	252	3.0	4,007	3,290	46	186	484
45 to 49 years	6,650	4,708	70.8	4,558	149	3.2	1,942	1,639	25	89	190
50 to 54 years	5,725	3,660	63.9	3,558	102	2.8	2,064	1,651	21	98	295
55 to 64 years	11,443	4,860	42.5	4,743	118	2.4	6,583	4,799	15	278	1,491
55 to 59 years	5,685	2,955	52.0	2,879	76	2.6	2,730	2,123	11	117	480
60 to 64 years	5,758	1,906	33.1	1,864	42	2.2	3,853	2,676	4	161	1,011
65 years and over ..	16,738	1,278	7.6	1,247	32	2.5	15,459	8,926	14	661	5,858
65 to 69 years	5,357	819	15.3	794	25	3.0	4,538	2,813	5	105	1,615
70 to 74 years	4,379	309	7.1	304	5	1.6	4,070	2,502	4	108	1,456
75 years and over ..	7,002	151	2.2	149	2	1.4	6,851	3,611	5	448	2,787

**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	June 1988										
	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	158,166	106,015	67.0	101,069	4,946	4.7	52,151	24,875	2,546	2,577	22,153
16 to 19 years	11,870	8,188	69.0	7,034	1,154	14.1	3,682	419	1,561	33	1,669
16 to 17 years	5,924	3,490	58.9	2,866	623	17.9	2,434	154	1,088	12	1,180
18 to 19 years	5,946	4,699	79.0	4,168	530	11.3	1,248	265	474	20	489
20 to 24 years	15,295	12,873	84.2	11,986	887	6.9	2,422	1,205	491	54	671
25 to 54 years	86,282	71,593	83.0	69,031	2,561	3.6	14,690	10,671	464	975	2,579
25 to 34 years	35,888	30,125	83.9	28,796	1,329	4.4	5,763	4,264	288	272	938
25 to 29 years	17,883	15,098	84.4	14,409	689	4.6	2,785	2,009	174	130	472
30 to 34 years	18,005	15,028	83.5	14,387	640	4.3	2,977	2,255	113	142	467
35 to 44 years	29,762	25,020	84.1	24,246	773	3.1	4,742	3,508	126	310	799
35 to 39 years	16,009	13,418	83.8	12,965	452	5.4	2,591	2,003	70	152	404
40 to 44 years	13,753	11,602	84.4	11,280	321	2.8	2,151	1,543	57	158	395
45 to 54 years	20,633	16,448	79.7	15,990	458	2.8	4,185	2,900	50	394	841
45 to 49 years	11,106	9,132	82.2	8,879	254	2.8	1,974	1,439	24	170	335
50 to 54 years	9,526	7,316	76.8	7,111	204	3.5	2,210	1,477	25	223	506
55 to 64 years	19,009	10,361	54.5	10,086	275	2.7	8,648	4,269	15	616	3,748
55 to 59 years	9,444	6,201	65.7	6,034	168	2.7	3,242	1,852	10	296	1,084
60 to 64 years	9,566	4,159	43.5	4,053	107	2.6	5,406	2,417	4	320	2,664
65 years and over	25,708	3,000	11.7	2,931	70	2.3	22,708	8,310	13	899	13,486
65 to 69 years	8,762	1,816	20.7	1,761	55	3.0	6,947	2,562	5	193	4,188
70 to 74 years	6,924	734	10.6	727	6	.8	6,190	2,321	3	183	3,683
75 years and over	10,022	451	4.5	443	9	2.0	9,571	3,428	5	522	5,616
Men											
16 years and over	75,849	59,337	78.2	56,663	2,674	4.5	16,513	404	1,296	1,551	13,262
16 to 19 years	5,988	4,252	71.0	3,646	605	14.2	1,736	44	833	22	838
16 to 17 years	3,031	1,831	60.4	1,508	323	17.6	1,201	22	564	6	609
18 to 19 years	2,956	2,421	81.9	2,139	282	11.7	535	23	268	16	229
20 to 24 years	7,487	6,810	91.0	6,380	430	6.3	676	14	263	22	377
25 to 54 years	42,696	40,329	94.5	38,919	1,409	3.5	2,367	137	196	712	1,322
25 to 34 years	17,876	17,013	95.2	16,257	756	4.4	862	55	143	200	465
25 to 29 years	8,881	8,423	94.8	8,045	378	4.5	458	28	86	88	256
30 to 34 years	8,995	8,591	95.5	8,212	378	4.4	404	26	56	112	210
35 to 44 years	14,715	14,002	95.2	13,607	396	2.8	713	31	45	230	407
35 to 39 years	7,944	7,585	95.5	7,356	228	3.0	359	13	20	117	209
40 to 44 years	6,772	6,418	94.8	6,250	167	2.6	354	17	26	114	198
45 to 54 years	10,105	9,313	92.2	9,056	257	2.8	791	52	8	282	449
45 to 49 years	5,455	5,140	94.2	5,006	135	2.6	315	21	2	109	182
50 to 54 years	4,649	4,173	89.8	4,051	122	2.9	476	30	6	172	268
55 to 64 years	9,007	6,065	67.3	5,883	182	3.0	2,942	57	4	415	2,466
55 to 59 years	4,530	3,622	80.0	3,514	109	3.0	908	20	4	209	675
60 to 64 years	4,476	2,442	54.6	2,369	73	3.0	2,034	37		206	1,791
65 years and over	10,672	1,881	17.6	1,834	47	2.5	8,791	151		381	8,259
65 to 69 years	3,998	1,098	27.5	1,061	37	3.3	2,901	41		111	2,749
70 to 74 years	2,991	476	15.9	471	4	.8	2,515	30		99	2,387
75 years and over	3,683	308	8.4	302	7	2.1	3,375	81		170	3,124
Women											
16 years and over	82,317	46,678	56.7	44,406	2,272	4.9	35,638	24,472	1,249	1,026	8,891
16 to 19 years	5,883	3,937	66.9	3,388	549	13.9	1,946	375	729	11	831
16 to 17 years	2,893	1,659	57.4	1,359	300	18.1	1,234	133	523	6	571
18 to 19 years	2,990	2,278	76.2	2,030	248	10.9	712	242	205	5	260
20 to 24 years	7,809	6,062	77.6	5,606	457	7.5	1,746	1,191	228	32	295
25 to 54 years	43,586	31,264	71.7	30,112	1,152	3.7	12,323	10,534	268	263	1,257
25 to 34 years	18,012	13,112	72.8	12,539	573	4.4	4,900	4,209	146	72	473
25 to 29 years	9,002	6,675	74.1	6,364	311	4.7	2,327	1,981	88	42	216
30 to 34 years	9,010	6,437	71.4	6,175	262	4.1	2,573	2,229	57	30	257
35 to 44 years	15,046	11,017	73.2	10,640	378	3.4	4,029	3,477	81	79	392
35 to 39 years	8,065	5,833	72.3	5,609	224	3.8	2,232	1,952	50	35	195
40 to 44 years	6,981	5,184	74.3	5,030	154	3.0	1,797	1,525	31	44	197
45 to 54 years	10,528	7,135	67.8	6,933	201	2.8	3,394	2,848	42	112	392
45 to 49 years	5,651	3,992	70.6	3,873	119	3.0	1,659	1,423	22	61	153
50 to 54 years	4,877	3,143	64.4	3,060	82	2.6	1,734	1,426	19	51	238
55 to 64 years	10,002	4,296	43.0	4,204	93	2.2	5,706	4,212	11	201	1,282
55 to 59 years	4,913	2,579	52.5	2,520	59	2.3	2,334	1,833	7	87	408
60 to 64 years	5,089	1,717	33.7	1,684	34	2.0	3,372	2,380	4	114	874
65 years and over	15,036	1,119	7.4	1,097	22	2.0	13,917	8,159	13	518	5,227
65 to 69 years	4,764	718	15.1	700	18	2.5	4,046	2,521	5	82	1,439
70 to 74 years	3,933	258	6.6	256	2	.8	3,675	2,291	3	84	1,296
75 years and over	6,339	143	2.3	141	2	1.6	6,196	3,347	5	352	2,492

**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	June 1988										
	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	20,683	13,231	64.0	11,597	1,634	12.4	7,452	2,806	913	724	3,010
16 to 19 years	2,182	1,061	48.6	673	387	36.5	1,122	123	575	8	416
16 to 17 years	1,137	444	39.0	257	187	42.2	693	41	350	4	298
18 to 19 years	1,046	617	59.0	417	200	32.4	429	82	225	4	118
20 to 24 years	2,531	1,758	69.5	1,366	392	22.3	773	288	202	55	228
25 to 54 years	11,462	9,113	79.5	8,311	802	8.8	2,348	1,277	133	279	662
25 to 34 years	5,234	4,194	80.1	3,687	507	12.1	1,040	576	82	95	288
25 to 29 years	2,672	2,108	78.9	1,800	308	14.6	564	282	53	42	187
30 to 34 years	2,562	2,086	81.4	1,887	199	9.5	476	294	28	54	101
35 to 44 years	3,706	3,042	82.1	2,842	200	6.6	664	368	42	61	193
35 to 39 years	2,119	1,716	81.0	1,597	120	7.0	401	223	30	33	115
40 to 44 years	1,587	1,325	83.5	1,245	81	6.1	263	145	12	27	78
45 to 54 years	2,522	1,877	74.4	1,783	94	5.0	645	333	9	123	181
45 to 49 years	1,341	1,047	78.1	999	49	4.7	294	161	3	55	75
50 to 54 years	1,180	829	70.3	783	45	5.4	351	173	6	68	105
55 to 64 years	2,110	1,027	48.7	986	41	4.0	1,082	458	3	166	454
55 to 59 years	1,100	661	60.1	634	27	4.1	440	209	3	80	147
60 to 64 years	1,009	366	36.3	352	14	3.9	643	249		86	307
65 years and over	2,399	272	11.3	260	13	4.6	2,126	660		216	1,250
65 to 69 years	878	158	18.0	150	9	5.7	720	241		54	425
70 years and over	1,520	114	7.5	110	4	3.5	1,406	420		162	825
Men											
16 years and over	9,289	6,706	72.2	5,894	812	12.1	2,583	109	415	398	1,662
16 to 19 years	1,077	578	53.8	375	203	35.1	499	5	297	4	193
16 to 17 years	573	246	42.9	143	103	42.0	327	2	175		151
18 to 19 years	504	332	66.0	233	100	30.0	171	3	122	4	42
20 to 24 years	1,154	902	78.2	700	202	22.4	252	5	85	44	119
25 to 54 years	5,140	4,517	87.9	4,132	384	8.5	622	46	34	178	367
25 to 34 years	2,368	2,107	89.0	1,876	231	11.0	261	16	18	76	152
25 to 29 years	1,209	1,057	87.4	908	149	14.1	152	4	7	36	105
30 to 34 years	1,159	1,050	90.6	968	82	7.8	109	12	10	41	47
35 to 44 years	1,651	1,471	89.1	1,369	102	7.0	180	11	12	41	115
35 to 39 years	945	839	88.9	771	69	8.2	105	9	5	20	71
40 to 44 years	706	632	89.4	598	34	5.3	75	2	7	21	44
45 to 54 years	1,121	938	83.8	887	51	5.5	182	19	4	61	100
45 to 49 years	596	517	86.8	493	25	4.8	79	7		29	43
50 to 54 years	524	421	80.3	394	26	6.3	103	12	4	32	56
55 to 64 years	951	573	60.3	555	18	3.2	378	15	-1	90	272
55 to 59 years	498	360	72.4	348	12	3.5	138	1		51	85
60 to 64 years	453	213	46.9	207	6	2.7	240	13		39	187
65 years and over	969	137	14.1	132	5	3.7	831	38		82	711
65 to 69 years	383	74	19.3	70	4	(¹)	309	13		32	264
70 years and over	585	63	10.8	62	1	(¹)	522	26		50	446
Women											
16 years and over	11,394	6,525	57.3	5,703	822	12.6	4,869	2,696	499	325	1,349
16 to 19 years	1,105	482	43.6	298	184	38.2	623	118	278	4	223
16 to 17 years	564	198	35.1	114	84	42.4	366	39	175	4	147
18 to 19 years	542	284	52.5	184	100	35.3	258	79	103		76
20 to 24 years	1,377	856	62.2	666	190	22.2	521	283	117	11	109
25 to 54 years	6,322	4,596	72.7	4,179	418	9.1	1,726	1,231	99	101	295
25 to 34 years	2,866	2,087	72.8	1,811	276	13.2	779	560	64	19	136
25 to 29 years	1,463	1,051	71.8	892	159	15.1	412	278	46	6	82
30 to 34 years	1,403	1,036	73.9	919	117	11.3	367	282	18	13	54
35 to 44 years	2,055	1,571	76.4	1,473	98	6.2	484	357	30	20	78
35 to 39 years	1,174	877	74.8	826	51	5.9	296	214	25	13	44
40 to 44 years	881	693	78.7	647	47	6.7	188	143	5	6	34
45 to 54 years	1,401	939	67.0	896	43	4.6	463	314	5	62	81
45 to 49 years	745	530	71.1	506	24	4.5	215	154	3	26	32
50 to 54 years	656	408	62.2	389	19	4.6	248	161	2	36	49
55 to 64 years	1,159	454	39.2	431	23	5.1	705	443	4	76	182
55 to 59 years	603	301	49.9	286	14	4.8	302	208	4	29	62
60 to 64 years	556	154	27.7	145	9	5.6	403	236		47	120
65 years and over	1,430	135	9.5	128	7	5.5	1,295	622		134	539
65 to 69 years	495	84	17.0	80	5	5.6	411	228		22	161
70 years and over	935	51	5.5	48	3	(¹)	884	394		112	379

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	June 1988								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	26,396	17,013	64.5	15,140	242	14,899	1,873	11.0	9,383
16 to 19 years	2,664	1,286	48.3	852	19	833	434	33.7	1,378
16 to 17 years	1,396	530	38.0	326	10	315	205	38.6	865
18 to 19 years	1,268	756	59.6	527	8	518	229	30.3	513
20 to 24 years	3,212	2,225	69.3	1,787	30	1,757	439	19.7	987
25 to 54 years	15,034	11,875	79.0	10,943	136	10,807	933	7.9	3,160
25 to 34 years	6,696	5,278	78.8	4,703	77	4,625	575	10.9	1,418
25 to 29 years	3,400	2,648	77.9	2,300	43	2,257	348	13.1	753
30 to 34 years	3,296	1,408	42.7	2,403	34	2,369	227	16.1	666
35 to 44 years	4,967	4,075	82.0	3,829	29	3,800	246	6.0	892
35 to 39 years	2,799	2,268	81.0	2,124	14	2,110	144	6.3	531
40 to 44 years	2,168	1,807	83.3	1,705	15	1,690	102	5.6	361
45 to 54 years	3,371	2,522	74.8	2,411	30	2,381	111	4.4	849
45 to 49 years	1,820	1,430	78.6	1,368	13	1,355	61	4.3	390
50 to 54 years	1,552	1,093	70.4	1,043	17	1,026	50	4.6	459
55 to 64 years	2,617	1,284	49.0	1,236	36	1,200	47	3.7	1,333
55 to 59 years	1,408	843	59.9	810	19	792	33	3.9	565
60 to 64 years	1,209	440	36.4	426	17	408	15	3.3	768
65 years and over	2,868	343	12.0	323	21	302	20	5.9	2,526
65 to 69 years	1,051	205	19.5	188	7	182	17	8.3	845
70 to 74 years	765	101	13.2	97	6	91	4	4.0	664
75 years and over	1,053	37	3.5	37	7	30		(¹)	1,016
Men									
16 years and over	11,995	8,764	73.1	7,810	218	7,592	954	10.9	3,231
16 to 19 years	1,331	715	53.8	476	18	458	239	33.4	615
16 to 17 years	706	297	42.0	180	9	172	117	39.3	409
18 to 19 years	624	419	67.0	296	9	287	123	29.3	206
20 to 24 years	1,481	1,132	76.4	908	23	885	223	19.7	349
25 to 54 years	6,841	6,014	87.9	5,556	127	5,428	458	7.6	827
25 to 34 years	3,051	2,697	88.4	2,429	72	2,357	268	9.9	353
25 to 29 years	1,565	1,360	86.9	1,183	42	1,141	177	13.0	205
30 to 34 years	1,486	1,337	90.0	1,246	30	1,216	91	6.8	149
35 to 44 years	2,265	2,028	89.5	1,899	27	1,872	129	6.4	237
35 to 39 years	1,277	1,147	89.8	1,066	14	1,052	81	7.0	130
40 to 44 years	988	881	89.2	833	13	820	48	5.5	107
45 to 54 years	1,525	1,289	84.5	1,228	28	1,199	61	4.7	236
45 to 49 years	821	714	87.0	683	12	671	31	4.3	107
50 to 54 years	704	575	81.6	545	17	528	30	5.2	129
55 to 64 years	1,176	720	61.2	697	31	666	23	3.1	456
55 to 59 years	637	468	73.5	451	14	438	17	3.5	169
60 to 64 years	539	252	46.7	246	18	228	6	2.4	287
65 years and over	1,167	183	15.7	173	18	155	11	5.8	983
65 to 69 years	458	104	22.8	94	6	89	10	9.6	353
70 to 74 years	319	50	15.7	49	5	44	1	(¹)	269
75 years and over	390	29	7.4	29	7	22		(¹)	361
Women									
16 years and over	14,401	8,249	57.3	7,330	24	7,306	918	11.1	6,153
16 to 19 years	1,333	571	42.8	376	1	375	194	34.1	763
16 to 17 years	689	234	33.9	146	2	144	88	37.7	456
18 to 19 years	644	337	52.3	231	-	232	106	31.6	307
20 to 24 years	1,731	1,094	63.2	878	7	871	215	19.7	638
25 to 54 years	8,193	5,861	71.5	5,387	9	5,379	475	8.1	2,333
25 to 34 years	3,645	2,580	70.8	2,274	5	2,269	307	11.9	1,065
25 to 29 years	1,835	1,288	70.2	1,117	1	1,116	171	13.3	548
30 to 34 years	1,810	1,293	71.4	1,157	4	1,153	136	10.5	517
35 to 44 years	2,702	2,047	75.8	1,930	3	1,928	117	5.7	655
35 to 39 years	1,522	1,121	73.6	1,058	-	1,058	63	5.6	401
40 to 44 years	1,180	926	78.5	872	2	870	54	5.8	254
45 to 54 years	1,846	1,233	66.8	1,183	1	1,182	50	4.1	613
45 to 49 years	999	716	71.7	685	1	684	30	4.2	283
50 to 54 years	848	518	61.1	498	-	498	20	3.9	330
55 to 64 years	1,441	564	39.1	539	5	534	25	4.4	877
55 to 59 years	772	375	48.7	359	5	354	16	4.3	396
60 to 64 years	669	189	28.2	180	-	180	8	4.5	481
65 years and over	1,702	160	9.4	150	3	147	10	6.0	1,542
65 to 69 years	593	101	17.0	94	1	93	7	6.6	492
70 to 74 years	446	51	11.4	48	1	47	3	(¹)	395
75 years and over	663	8	1.2	8		8		(¹)	655

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	
	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988
TOTAL								
Civilian noninstitutional population	182,703	184,562	79,536	80,526	88,546	89,502	14,621	14,534
Civilian labor force	121,153	123,028	62,503	63,134	49,502	50,420	9,147	9,474
Percent of population	66.3	66.7	78.6	78.4	55.9	56.3	62.6	65.2
Employed	113,498	116,209	59,184	60,350	46,896	47,972	7,418	7,887
Agriculture	3,661	3,546	2,533	2,416	711	704	418	425
Nonagricultural industries	109,837	112,663	56,651	57,934	46,186	47,268	7,000	7,461
Unemployed	7,655	6,819	3,320	2,784	2,606	2,448	1,729	1,588
Unemployment rate	6.3	5.5	5.3	4.4	5.3	4.9	18.9	16.8
Not in labor force	61,550	61,534	17,033	17,392	39,044	39,082	5,474	5,060
White								
Civilian noninstitutional population	156,930	158,166	69,151	69,862	75,817	76,434	11,962	11,870
Civilian labor force	104,409	106,015	54,605	55,085	41,932	42,742	7,872	8,188
Percent of population	66.5	67.0	79.0	78.8	55.3	55.9	65.8	69.0
Employed	98,796	101,069	52,097	53,016	40,076	41,018	6,623	7,034
Agriculture	3,387	3,304	2,329	2,217	662	681	395	406
Nonagricultural industries	95,409	97,764	49,767	50,800	39,414	40,337	6,228	6,628
Unemployed	5,613	4,946	2,508	2,069	1,856	1,724	1,249	1,154
Unemployment rate	5.4	4.7	4.6	3.8	4.4	4.0	15.9	14.1
Not in labor force	52,521	52,151	14,545	14,777	33,885	33,692	4,090	3,682
Black								
Civilian noninstitutional population	20,341	20,683	8,058	8,212	10,118	10,289	2,165	2,182
Civilian labor force	13,133	13,231	6,063	6,128	6,006	6,043	1,064	1,061
Percent of population	64.6	64.0	75.2	74.6	59.4	58.7	49.1	48.6
Employed	11,346	11,597	5,375	5,518	5,338	5,405	633	673
Agriculture	192	184	145	149	29	20	18	15
Nonagricultural industries	11,154	11,413	5,230	5,370	5,309	5,385	616	658
Unemployed	1,787	1,634	688	610	668	638	431	387
Unemployment rate	13.6	12.4	11.3	10.0	11.1	10.6	40.5	36.5
Not in labor force	7,208	7,452	1,995	2,084	4,112	4,246	1,101	1,122

**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	June 1988									
	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	6,692	3,583	53.5	3,138	986	2,152	445	198	247	12.4
16 to 19 years	4,394	2,083	47.4	1,730	322	1,408	352	156	196	16.9
20 to 24 years	2,298	1,500	65.3	1,407	664	744	93	42	51	6.2
High school	3,476	1,514	43.6	1,221	146	1,075	293	124	168	19.3
College	3,216	2,069	64.3	1,917	840	1,077	152	74	78	7.4
Full-time students	2,126	1,138	53.5	1,037	407	630	101	48	53	8.9
Part-time students	1,090	931	85.4	880	433	447	51	26	25	5.5
Men, 16 to 24 years	3,397	1,791	52.7	1,558	560	999	233	106	127	13.0
16 to 19 years	2,227	1,035	46.5	841	172	669	194	88	106	18.7
20 to 24 years	1,171	756	64.6	718	388	329	39	18	21	5.1
High school	1,825	785	43.0	631	89	542	154	60	95	19.6
College	1,573	1,006	64.0	927	471	457	78	46	32	7.8
Full-time students	1,075	574	53.4	529	256	273	45	26	19	7.8
Part-time students	497	432	86.8	398	214	184	34	20	13	7.8
Women, 16 to 24 years	3,294	1,792	54.4	1,579	426	1,153	212	93	120	11.8
16 to 19 years	2,167	1,048	48.4	890	151	739	158	68	90	15.1
20 to 24 years	1,127	744	66.0	690	275	414	54	24	30	7.3
High school	1,651	728	44.1	590	57	533	139	65	74	19.0
College	1,643	1,063	64.7	989	369	620	74	28	46	6.9
Full-time students	1,051	564	53.7	508	151	357	56	23	34	10.0
Part-time students	593	499	84.2	482	219	263	17	5	12	3.5
White										
Total, 16 to 24 years	5,070	2,971	58.6	2,650	830	1,820	320	146	174	10.8
16 to 19 years	3,316	1,738	52.4	1,481	278	1,203	258	119	139	14.8
20 to 24 years	1,754	1,232	70.3	1,170	552	618	63	27	36	5.1
Men	2,560	1,457	56.9	1,306	459	847	151	73	78	10.4
Women	2,509	1,514	60.3	1,345	371	973	170	73	97	11.2
High school	2,563	1,251	48.8	1,031	121	911	220	96	124	17.6
College	2,507	1,719	68.6	1,619	710	909	100	50	50	5.8
Full-time students	1,571	910	58.0	849	340	509	61	28	33	6.7
Part-time students	936	809	86.4	770	370	400	39	22	17	4.9
Black										
Total, 16 to 24 years	1,200	455	37.9	345	115	230	110	42	68	24.2
16 to 19 years	860	287	33.3	201	38	163	86	33	53	29.9
20 to 24 years	340	168	49.5	144	77	66	24	10	15	14.5
Men	620	253	40.8	184	73	111	68	23	46	27.1
Women	580	202	34.9	160	42	118	42	19	22	20.7
High school	731	224	30.7	154	20	134	70	29	42	31.4
College	468	231	49.2	191	95	95	40	13	26	17.3
Full-time students	372	158	42.6	128	47	81	30	12	18	19.1
Part-time students	97	73	74.8	63	49	14	10	2	8	(²)
Hispanic origin										
Total, 16 to 24 years	766	390	50.9	306	89	217	84	46	38	21.6
16 to 19 years	572	258	45.0	179	25	154	78	42	37	30.4
20 to 24 years	195	133	68.3	127	64	63	6	4	2	4.6
Men	373	176	47.3	141	48	93	35	18	18	20.1
Women	393	214	54.4	165	41	124	49	28	21	22.8
High school	477	211	44.2	141	21	120	70	37	33	33.3
College	290	179	62.0	165	68	97	14	9	5	7.8
Full-time students	176	85	48.0	70	6	64	14	11	3	16.8
Part-time students	113	95	83.7	95	62	33			2	-

See footnotes at end of table.

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	June 1988									
	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 NOT ENROLLED										
Total, 16 to 24 years	26,350	20,990	79.7	18,521	14,034	4,487	2,469	1,938	530	11.8
16 to 19 years	10,141	7,392	72.9	6,156	3,375	2,781	1,235	885	350	16.7
20 to 24 years	16,209	13,598	83.9	12,365	10,659	1,706	1,233	1,053	180	9.1
Less than 4 years of high school	8,942	5,938	66.4	4,818	2,726	2,092	1,120	810	310	18.9
4 years of high school	10,221	8,627	84.4	7,775	6,398	1,377	852	731	122	9.9
1 to 3 years of college	5,420	4,812	88.8	4,413	3,545	868	399	307	92	8.3
4 years of college or more	1,767	1,613	91.3	1,516	1,366	149	98	91	7	6.1
Men, 16 to 24 years	12,889	11,118	86.3	9,852	7,905	1,947	1,266	1,044	222	11.4
16 to 19 years	5,092	3,932	77.2	3,281	2,017	1,264	651	483	168	16.5
20 to 24 years	7,797	7,186	92.2	6,571	5,888	683	615	561	54	8.6
Less than 4 years of high school	4,741	3,554	75.0	2,959	1,938	1,021	595	451	144	16.7
4 years of high school	4,795	4,490	93.6	4,063	3,576	486	428	398	29	9.5
1 to 3 years of college	2,563	2,338	91.2	2,138	1,755	383	200	151	49	8.5
4 years of college or more	790	736	93.2	693	635	58	44	44	-	5.9
Women, 16 to 24 years	13,461	9,872	73.3	8,669	6,129	2,540	1,203	894	308	12.2
16 to 19 years	5,049	3,459	68.5	2,875	1,358	1,517	585	403	182	16.9
20 to 24 years	8,412	6,412	76.2	5,794	4,772	1,023	618	492	126	9.6
Less than 4 years of high school	4,201	2,384	56.7	1,859	787	1,072	525	359	166	22.0
4 years of high school	5,426	4,137	76.2	3,712	2,821	891	425	333	92	10.3
1 to 3 years of college	2,857	2,474	86.6	2,275	1,790	486	199	156	43	8.0
4 years of college or more	977	877	89.7	823	731	92	54	47	8	6.2
White										
Total, 16 to 24 years	22,096	18,090	81.9	16,370	12,402	3,968	1,721	1,289	432	9.5
16 to 19 years	8,555	6,450	75.4	5,554	3,042	2,511	896	606	291	13.9
20 to 24 years	13,541	11,640	86.0	10,816	9,359	1,457	824	683	141	7.1
Men	10,914	9,605	88.0	8,720	6,995	1,725	885	708	177	9.2
Women	11,182	8,485	75.9	7,649	5,407	2,243	836	581	255	9.8
Less than 4 years of high school	7,309	5,036	68.9	4,239	2,413	1,826	797	538	259	15.8
4 years of high school	8,538	7,426	87.0	6,851	5,616	1,235	574	474	100	7.7
1 to 3 years of college	4,643	4,151	89.4	3,892	3,122	769	259	191	68	6.2
4 years of college or more	1,606	1,478	92.0	1,387	1,250	138	90	85	5	6.1
Black										
Total, 16 to 24 years	3,514	2,364	67.3	1,695	1,299	396	668	580	88	28.3
16 to 19 years	1,322	774	58.5	473	273	200	301	249	52	38.9
20 to 24 years	2,191	1,590	72.6	1,223	1,027	196	367	331	36	23.1
Men	1,611	1,227	76.2	891	731	160	336	299	38	27.4
Women	1,903	1,136	59.7	804	568	236	332	282	51	29.2
Less than 4 years of high school	1,393	759	54.5	469	251	218	290	246	44	38.2
4 years of high school	1,437	1,022	71.1	765	662	103	257	237	20	25.2
1 to 3 years of college	593	504	85.1	386	316	69	119	94	24	23.5
4 years of college or more	91	79	86.5	76	70	6	3	3	-	3.6
Hispanic origin										
Total, 16 to 24 years	2,561	1,967	76.8	1,656	1,387	269	312	242	70	15.8
16 to 19 years	779	550	70.7	392	265	127	158	110	48	28.8
20 to 24 years	1,783	1,417	79.5	1,264	1,122	142	153	132	21	10.8
Men	1,322	1,181	89.3	1,009	886	122	172	152	20	14.6
Women	1,239	787	63.5	647	501	146	140	90	50	17.7
Less than 4 years of high school	1,309	899	68.7	706	564	141	194	150	44	21.5
4 years of high school	861	724	84.0	634	562	72	90	76	14	12.4
1 to 3 years of college	342	294	85.9	269	219	50	24	13	12	8.3
4 years of college or more	49	51	(²)	47	42	5	4	4	-	(²)

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							
	June 1987	June 1988	Total		Employed		Unemployed			
			June 1987	June 1988	June 1987	June 1988	Number		Percent of labor force	
							June 1987	June 1988	June 1987	June 1988
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,840	7,902	7,235	7,249	6,901	7,011	334	238	4.6	3.3
30 to 44 years	6,235	5,942	5,956	5,665	5,663	5,467	293	198	4.9	3.5
30 to 34 years	935	701	881	668	794	613	87	55	9.9	8.2
35 to 39 years	2,626	2,178	2,523	2,058	2,399	1,994	124	64	4.9	3.1
40 to 44 years	2,674	3,063	2,552	2,939	2,470	2,860	82	79	3.2	2.7
45 years and over	1,605	1,960	1,279	1,584	1,238	1,544	41	40	3.2	2.5
NONVETERANS										
Total, 30 to 44 years	19,414	20,367	18,343	19,190	17,554	18,469	789	721	4.3	3.8
30 to 34 years	8,843	9,079	8,476	8,596	8,067	8,232	409	364	4.8	4.2
35 to 39 years	6,184	6,799	5,785	6,434	5,584	6,202	201	232	3.5	3.6
40 to 44 years	4,387	4,489	4,082	4,160	3,903	4,035	179	125	4.4	3.0

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Sex, age, and race	June 1988							
	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	97,537	95,761	1,776	18,672	14,663	4,009	5,613	1,206
16 to 19 years	3,697	3,513	184	4,190	3,065	1,125	1,042	546
16 to 17 years	957	884	73	2,235	1,674	561	436	392
18 to 19 years	2,740	2,629	111	1,955	1,391	564	605	154
20 years and over	93,840	92,248	1,592	14,482	11,598	2,884	4,571	660
20 to 24 years	11,323	11,035	288	2,449	1,665	784	1,095	231
25 years and over	82,516	81,212	1,304	12,033	9,932	2,101	3,476	429
25 to 54 years	71,459	70,322	1,137	8,516	6,735	1,781	3,178	315
55 years and over	11,057	10,890	167	3,517	3,197	320	298	114
Men, 16 years and over	58,345	57,363	982	6,127	4,337	1,790	3,167	461
16 to 19 years	2,189	2,087	102	1,934	1,363	571	570	274
20 years and over	56,157	55,276	881	4,193	2,974	1,219	2,597	187
20 to 24 years	6,276	6,104	172	1,013	630	383	579	75
25 years and over	49,879	49,171	708	3,182	2,345	837	2,017	113
25 to 54 years	42,794	42,179	615	1,681	973	708	1,812	56
55 years and over	7,086	6,993	93	1,501	1,372	129	205	57
Women, 16 years and over	39,192	38,398	794	12,544	10,325	2,219	2,446	745
16 to 19 years	1,509	1,426	83	2,256	1,702	554	471	272
20 years and over	37,683	36,972	711	10,288	8,623	1,665	1,974	473
20 to 24 years	5,047	4,931	116	1,437	1,036	401	516	156
25 years and over	32,637	32,041	596	8,850	7,587	1,263	1,458	317
25 to 54 years	28,665	28,143	522	6,834	5,762	1,072	1,366	261
55 years and over	3,971	3,897	74	2,017	1,826	191	92	56
White								
Men, 16 years and over	51,366	50,563	803	5,296	3,854	1,442	2,334	340
16 to 19 years	1,952	1,865	87	1,694	1,215	479	397	208
20 years and over	49,414	48,698	716	3,603	2,639	964	1,937	132
20 to 24 years	5,502	5,366	136	878	561	317	384	47
25 years and over	43,912	43,332	580	2,724	2,078	646	1,552	86
25 to 54 years	37,546	37,042	504	1,373	817	556	1,365	44
55 years and over	6,366	6,290	76	1,351	1,261	90	188	41
Women, 16 years and over	33,216	32,566	650	11,190	9,356	1,834	1,662	610
16 to 19 years	1,368	1,298	70	2,020	1,515	505	327	221
20 years and over	31,848	31,268	580	9,170	7,840	1,330	1,335	389
20 to 24 years	4,410	4,311	99	1,196	878	318	326	130
25 years and over	27,437	26,957	480	7,973	6,962	1,011	1,008	259
25 to 54 years	23,956	23,536	420	6,155	5,304	851	939	213
55 years and over	3,480	3,420	60	1,818	1,658	160	69	46
Black								
Men, 16 years and over	5,248	5,087	161	645	365	280	712	101
16 to 19 years	190	176	14	186	119	67	147	56
20 years and over	5,058	4,911	147	460	247	213	565	45
20 to 24 years	615	587	28	86	37	49	174	28
25 years and over	4,445	4,325	120	374	210	164	390	17
25 to 54 years	3,882	3,775	107	250	116	134	377	7
55 years and over	562	550	12	124	94	30	13	10
Women, 16 years and over	4,696	4,580	116	1,007	688	319	700	122
16 to 19 years	120	109	11	178	135	43	134	50
20 years and over	4,575	4,470	105	830	554	276	566	72
20 to 24 years	490	475	15	176	100	76	167	23
25 years and over	4,085	3,995	90	652	453	199	398	48
25 to 54 years	3,701	3,620	81	477	305	172	377	39
55 years and over	383	375	8	175	148	27	21	9

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	June 1988									
	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	100,251	67.4	94,598	5,653	5.6	48,513	23,342	3,428	2,331	19,412
Husbands	39,855	78.5	38,746	1,108	2.8	10,921	179	142	913	9,687
With employed wife	25,351	92.4	24,725	627	2.5	2,071	76	61	329	1,605
With unemployed wife	866	90.1	770	96	11.0	96	2	4	19	71
With wife not in labor force	13,638	60.9	13,252	386	2.8	8,754	101	77	565	8,010
Wives	28,384	55.9	27,423	961	3.4	22,392	18,189	199	310	3,693
With employed husband	25,495	65.8	24,725	770	3.0	13,252	11,833	154	114	1,152
With unemployed husband	722	65.2	627	96	13.2	386	337	4	7	38
With husband not in labor force	2,167	19.8	2,071	96	4.4	8,754	6,019	41	190	2,503
Relatives in married-couple families	15,467	72.3	13,727	1,740	11.2	5,932	826	1,993	347	2,767
16 to 19 years	6,489	67.6	5,567	922	14.2	3,115	184	1,486	16	1,430
20 to 24 years	5,545	84.4	5,011	534	9.6	1,025	124	415	43	442
25 years and over	3,433	65.7	3,149	284	8.3	1,792	518	92	288	895
Women who maintain families	6,511	61.6	5,990	521	8.0	4,067	2,844	126	201	896
Relatives in families maintained by women	5,675	62.0	4,700	975	17.2	3,477	827	789	379	1,482
16 to 19 years	1,672	56.0	1,214	458	27.4	1,313	124	625	14	549
20 to 24 years	1,578	76.7	1,323	255	16.2	479	136	114	43	186
25 years and over	2,425	59.0	2,163	262	10.8	1,685	567	50	322	747
Men who maintain families	2,356	77.6	2,213	142	6.0	680	59	18	76	527
Relatives in families maintained by men	2,005	65.8	1,799	206	10.3	1,044	418	161	105	361
16 to 19 years	413	64.1	338	75	18.1	231	44	95	5	88
20 to 24 years	511	77.2	454	57	11.1	151	53	47	4	47
25 years and over	1,081	62.0	1,007	74	6.8	662	321	19	96	226

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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	
	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988
Total, 16 years and over	4,199	3,628	6.2	5.3	3,456	3,191	6.4	5.8
Married, spouse present	1,572	1,234	3.8	2.9	1,130	1,059	3.9	3.6
Widowed, divorced, or separated	418	416	6.4	6.1	701	655	6.9	6.3
Single (never married)	2,209	1,978	11.7	10.2	1,624	1,477	11.1	9.8
White, 16 years and over	3,162	2,674	5.4	4.5	2,452	2,272	5.4	4.9
Married, spouse present	1,314	1,034	3.5	2.8	917	867	3.5	3.3
Widowed, divorced, or separated	303	280	5.6	5.0	485	460	6.0	5.5
Single (never married)	1,545	1,360	9.8	8.4	1,049	945	8.9	7.7
Black, 16 years and over	883	812	13.4	12.1	904	822	13.8	12.6
Married, spouse present	194	156	6.3	5.0	172	156	7.4	6.5
Widowed, divorced, or separated	101	128	10.4	12.9	185	175	10.1	10.1
Single (never married)	588	528	23.2	20.5	546	491	22.9	20.5
Total, 25 years and over	2,463	2,130	4.5	3.9	1,846	1,776	4.4	4.1
Married, spouse present	1,457	1,159	3.6	2.9	928	891	3.5	3.3
Widowed, divorced, or separated	382	402	6.1	6.1	608	594	6.2	6.0
Single (never married)	624	568	7.8	6.7	308	291	5.4	4.8
White, 25 years and over	1,892	1,638	4.0	3.4	1,333	1,267	3.7	3.5
Married, spouse present	1,212	969	3.4	2.7	767	739	3.2	3.1
Widowed, divorced, or separated	284	268	5.5	4.9	413	404	5.4	5.1
Single (never married)	396	402	6.1	5.8	152	124	3.5	2.7
Black, 25 years and over	470	408	9.2	7.8	448	448	8.8	8.6
Married, spouse present	184	147	6.2	4.9	128	122	5.9	5.6
Widowed, divorced, or separated	86	126	9.2	12.9	171	171	9.5	10.1
Single (never married)	202	135	16.8	10.9	150	154	13.0	11.8

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988
Total, 16 years and over	7,655	6,819	6.3	5.5	6.2	5.3	6.4	5.8
Managerial and professional specialty	662	601	2.4	2.0	2.3	2.1	2.5	1.9
Executive, administrative, and managerial	338	309	2.5	2.1	2.4	2.3	2.7	1.8
Professional specialty	324	292	2.3	2.0	2.2	1.9	2.4	2.0
Technical, sales, and administrative support	1,661	1,478	4.5	4.0	4.0	3.2	4.8	4.5
Technicians and related support	94	93	2.7	2.7	3.3	2.2	2.0	3.2
Sales occupations	698	664	4.8	4.6	3.3	3.3	6.5	5.8
Administrative support, including clerical	869	721	4.5	3.8	5.6	3.5	4.3	3.9
Service occupations	1,298	1,162	7.9	7.0	8.0	6.5	7.8	7.3
Private household	53	59	5.5	5.9	(¹)	(¹)	5.5	5.9
Protective service	120	70	5.6	3.4	5.0	2.5	9.2	8.4
Service, except private household and protective	1,125	1,034	8.4	7.6	9.2	8.0	7.9	7.5
Precision production, craft, and repair	865	711	5.9	4.8	6.0	4.8	5.5	4.8
Mechanics and repairers	178	150	3.9	3.2	4.0	3.2	1.1	3.0
Construction trades	460	361	8.3	6.3	8.4	6.3	3.6	6.0
Other precision production, craft, and repair	227	200	5.1	4.7	4.7	4.6	6.4	4.9
Operators, fabricators, and laborers	1,626	1,409	8.4	7.2	8.3	7.2	8.6	7.1
Machine operators, assemblers, and inspectors	697	592	8.0	6.6	7.6	6.0	8.6	7.5
Transportation and material moving occupations	315	282	6.2	5.4	6.2	5.7	6.3	2.6
Handlers, equipment cleaners, helpers, and laborers	614	535	11.0	9.7	11.2	10.1	9.6	7.8
Construction laborers	156	165	15.5	15.8	14.8	16.2	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	458	370	10.0	8.3	10.3	8.4	8.6	7.6
Farming, forestry, and fishing	225	212	5.1	5.0	4.9	4.7	5.8	6.6
No previous work experience	1,292	1,212						
16 to 19 years	930	875						
20 to 24 years	241	219						
25 years and over	122	118						

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	
	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988
Total, 16 years and over	7,655	6,819	6.3	5.5	6.2	5.3	6.4	5.8
Nonagricultural private wage and salary workers	5,420	4,822	6.0	5.2	6.2	5.2	5.8	5.3
Mining	96	59	10.3	7.3	11.5	8.5	3.9	1.8
Construction	634	564	9.8	8.5	10.3	8.7	5.7	6.2
Manufacturing	1,179	1,016	5.4	4.6	5.2	4.1	5.9	5.6
Durable goods	692	568	5.3	4.4	5.5	4.0	5.0	5.3
Lumber and wood products	39	74	5.1	9.8	4.6	9.8	8.3	9.8
Furniture and fixtures	41	24	6.2	3.2	7.4	1.0	3.2	8.5
Stone, clay, and glass products	29	14	4.8	2.3	5.9	1.9	1.4	3.7
Primary metal industries	70	35	7.6	4.2	7.7	4.4	7.1	2.9
Fabricated metal products	82	78	6.4	6.0	6.2	6.1	6.8	5.8
Machinery, except electrical	147	108	5.8	4.1	5.8	3.5	5.6	5.8
Electrical machinery, equipment, and supplies	94	89	4.2	4.2	4.5	3.4	3.8	5.3
Transportation equipment	143	106	5.2	3.9	5.1	3.6	5.8	5.4
Automobiles	85	55	6.5	4.5	6.1	3.4	8.4	9.2
Other transportation equipment	58	51	4.1	3.5	4.1	3.7	3.8	2.4
Professional and photographic equipment	17	24	2.5	3.2	1.5	3.5	3.8	2.9
Other durable goods industries	29	15	6.0	2.9	5.5	2.8	6.9	3.1
Nondurable goods	487	448	5.5	4.9	4.7	4.1	6.7	5.9
Food and kindred products	133	142	7.5	7.8	6.2	7.3	10.1	8.8
Textile mill products	25	32	3.5	4.0	2.2	5.2	4.8	2.6
Apparel and other textile products	107	78	8.6	6.0	6.6	6.4	9.2	5.8
Paper and allied products	32	21	4.0	2.5	4.4	1.1	2.6	7.9
Printing and publishing	78	72	4.3	3.7	4.5	1.8	4.0	6.1
Chemicals and allied products	49	29	3.8	2.3	3.3	2.3	4.9	2.4
Rubber and miscellaneous plastics products	35	47	4.7	5.2	3.9	4.8	5.8	5.9
Other nondurable goods industries	27	29	7.2	7.4	6.6	6.3	8.6	9.4
Transportation and public utilities	285	265	4.6	4.0	4.7	3.7	4.3	4.9
Transportation	212	189	5.9	5.0	6.1	4.5	5.3	6.5
Communications and other public utilities	73	77	2.8	2.8	2.6	2.4	3.3	3.4
Wholesale and retail trade	1,690	1,410	7.3	6.1	6.4	5.6	8.2	6.6
Wholesale trade	199	195	4.3	4.5	3.8	4.0	5.8	5.6
Retail trade	1,491	1,215	8.0	6.4	7.3	6.1	8.5	6.7
Finance, insurance, and real estate	205	193	2.8	2.6	2.8	2.8	2.9	2.5
Service industries	1,331	1,314	5.5	5.3	6.0	5.5	5.1	5.1
Professional services	479	533	3.6	3.9	3.7	4.1	3.5	3.8
Other service industries	852	781	7.7	6.9	7.7	6.6	7.7	7.1
Agricultural wage and salary workers	132	133	6.4	6.7	6.2	6.6	7.1	7.0
Government, self-employed, and unpaid family workers	811	652	2.9	2.3	2.9	2.2	3.0	2.4
No previous work experience	1,292	1,212	-	-	-	-	-	-

**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	
	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988
NUMBER OF UNEMPLOYED												
Total unemployed	7,655	6,819	3,320	2,784	2,606	2,448	1,729	1,588	5,613	4,946	1,787	1,634
Job losers	3,305	2,848	2,159	1,755	997	897	149	196	2,480	2,132	738	636
On layoff	776	726	475	417	268	252	32	57	616	592	144	117
Other job losers	2,529	2,122	1,684	1,338	729	645	117	139	1,864	1,540	593	519
Job leavers	896	884	384	368	383	377	129	139	723	679	147	182
Reentrants	2,162	1,876	627	543	1,014	955	521	378	1,516	1,321	546	473
New entrants	1,292	1,210	150	117	212	218	930	875	894	813	357	344
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	43.1	41.7	65.0	63.1	38.3	36.7	7.7	12.3	44.2	43.1	41.3	38.9
On layoff	10.1	10.6	14.3	15.0	10.3	10.3	1.9	3.6	11.0	12.0	8.1	7.1
Other job losers	33.0	31.1	50.7	48.1	28.0	26.4	5.8	8.7	33.2	31.1	33.2	31.8
Job leavers	11.7	13.0	11.6	13.2	14.7	15.4	7.5	8.8	12.9	13.7	8.2	11.1
Reentrants	28.2	27.5	18.9	19.5	38.9	39.0	30.1	23.8	27.0	26.7	30.5	28.9
New entrants	16.9	17.8	4.5	4.2	8.1	8.9	53.8	55.1	15.9	16.4	20.0	21.0
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	2.7	2.3	3.5	2.8	2.0	1.8	1.7	2.1	2.4	2.1	5.6	4.8
Job leavers .....	.7	.7	.6	.6	.8	.7	1.4	1.5	.7	.6	1.1	1.4
Reentrants	1.8	1.5	1.0	.9	2.0	1.9	5.7	4.0	1.5	1.2	4.2	3.6
New entrants	1.1	1.0	.2	.2	.4	.4	10.2	9.2	.9	.8	2.7	2.6

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

(Percent distribution)

Reason, sex, and age	June 1988						
	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	6,819	100.0	53.7	23.9	22.4	10.7	11.7
Job losers	2,848	100.0	38.8	27.1	34.1	17.1	17.0
On layoff	726	100.0	54.8	24.9	20.3	14.2	6.1
Other job losers	2,122	100.0	33.4	27.9	38.8	18.1	20.7
Job leavers	884	100.0	55.6	26.9	17.5	8.4	9.1
Reentrants	1,876	100.0	62.5	22.2	15.3	5.9	9.4
New entrants	1,210	100.0	73.7	16.8	9.5	5.0	4.5
Men, 20 years and over	2,784	100.0	40.6	25.2	34.2	14.9	19.3
Job losers	1,755	100.0	35.2	26.2	38.6	17.7	20.9
On layoff	417	100.0	55.7	21.3	22.9	16.4	6.5
Other job losers	1,338	100.0	28.8	27.7	43.5	18.1	25.4
Job leavers	368	100.0	49.9	25.2	24.9	10.5	14.4
Reentrants	543	100.0	52.2	20.7	27.2	9.2	18.0
New entrants	117	100.0	39.0	31.2	29.8	13.7	16.2
Women, 20 years and over	2,448	100.0	54.4	25.9	19.7	10.5	9.1
Job losers	897	100.0	41.0	28.4	30.6	18.5	12.1
On layoff	252	100.0	48.6	33.0	18.4	12.1	6.3
Other job losers	645	100.0	38.0	26.6	35.4	21.0	14.4
Job leavers	377	100.0	58.0	26.7	15.2	8.1	7.1
Reentrants	955	100.0	63.2	24.5	12.3	4.9	7.4
New entrants	218	100.0	64.5	20.9	14.5	6.8	7.7
Both sexes, 16 to 19 years	1,588	100.0	75.6	18.5	5.9	3.7	2.3
Job losers	196	100.0	61.7	29.3	9.0	4.6	4.4
On layoff	57	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Other job losers	139	100.0	56.2	35.1	8.8	3.8	5.0
Job leavers	139	100.0	64.1	32.0	4.0	3.2	.7
Reentrants	378	100.0	75.4	18.7	5.9	3.8	2.1
New entrants	875	100.0	80.6	13.9	5.5	3.4	2.2

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	
	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988
Total, 16 years and over	7,655	6,819	100.0	100.0	6,497	5,613	100.0	100.0
Less than 5 weeks	3,754	3,661	49.0	53.7	2,941	2,747	45.3	48.9
5 to 14 weeks	1,856	1,631	24.2	23.9	1,624	1,436	25.0	25.6
5 to 10 weeks	1,429	1,213	18.7	17.8	1,244	1,058	19.1	18.8
11 to 14 weeks	427	417	5.6	6.1	380	378	5.8	6.7
15 weeks and over	2,045	1,527	26.7	22.4	1,933	1,429	29.8	25.5
15 to 26 weeks	979	732	12.8	10.7	911	670	14.0	11.9
27 weeks and over	1,067	795	13.9	11.7	1,022	759	15.7	13.5
27 to 51 weeks	456	313	6.0	4.6	435	301	6.7	5.4
52 weeks and over	610	483	8.0	7.1	587	458	9.0	8.2
Average (mean) duration, in weeks	14.2	12.5			15.5	13.8		
Median duration, in weeks	5.2	4.7			6.1	5.3		

**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	
								June 1987	June 1988	June 1987	June 1988
	June 1988										
Total, 16 years and over	6,819	3,661	1,631	732	795	12.5	4.7	49.0	53.7	26.7	22.4
16 to 19 years	1,588	1,200	294	58	36	5.3	3.3	73.2	75.6	7.9	5.9
20 to 24 years	1,326	781	329	123	93	9.6	4.2	53.0	58.9	21.1	16.3
25 to 34 years	1,905	890	514	225	276	14.1	5.9	41.3	46.7	31.8	26.3
35 to 44 years	1,020	416	245	163	196	18.0	8.5	35.5	40.8	38.2	35.2
45 to 54 years	570	196	154	115	106	19.1	9.8	33.2	34.3	45.4	38.7
55 to 64 years	322	131	67	40	85	21.0	8.5	34.7	40.6	39.6	38.6
65 years and over	90	48	29	9	5	10.5	4.7	(¹)	53.3	(¹)	14.8
Men, 16 years and over	3,628	1,770	860	445	552	14.8	5.4	43.8	48.8	32.8	27.5
16 to 19 years	845	640	158	30	17	5.1	3.3	71.5	75.8	10.2	5.5
20 to 24 years	654	327	188	89	50	11.0	5.0	46.5	50.0	26.0	21.3
25 to 34 years	1,025	437	233	141	213	17.7	7.6	37.1	42.7	37.8	34.6
35 to 44 years	525	177	135	83	130	21.6	10.6	28.5	33.8	46.5	40.5
45 to 54 years	318	87	79	70	82	24.5	14.1	29.2	27.3	52.1	47.9
55 to 64 years	204	73	47	27	57	21.4	11.1	31.0	35.7	46.1	41.2
65 years and over	58	29	20	6	3	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,191	1,891	771	286	243	9.8	4.2	55.4	59.3	19.3	16.6
16 to 19 years	743	560	136	28	20	5.5	3.3	75.0	75.4	5.6	6.4
20 to 24 years	672	454	142	34	43	8.3	3.7	60.4	67.5	15.6	11.4
25 to 34 years	880	453	281	84	63	10.0	4.9	46.9	51.5	23.9	16.6
35 to 44 years	495	239	110	80	66	14.3	5.8	43.5	48.3	28.8	29.5
45 to 54 years	252	109	75	44	24	12.4	6.8	39.5	43.2	35.0	27.0
55 to 64 years	118	58	20	13	27	20.5	5.3	41.2	49.0	28.3	34.3
65 years and over	32	19	9	3	1	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,946	2,740	1,148	528	529	11.7	4.5	49.8	55.4	26.1	21.4
Men	2,674	1,323	627	335	389	14.4	5.2	44.8	49.5	32.1	27.1
Women	2,272	1,418	522	193	140	8.5	4.0	56.1	62.4	18.3	14.7
Black, 16 years and over	1,634	789	430	169	246	15.1	5.5	45.8	48.3	29.8	25.4
Men	812	372	194	100	146	16.8	6.4	38.7	45.8	37.7	30.3
Women	822	417	236	69	99	13.3	4.9	52.7	50.8	22.2	20.5
Men, 16 years and over:											
Married, spouse present	1,234	451	304	212	267	18.9	9.7	32.6	36.6	42.9	38.8
Widowed, divorced, or separated	416	158	99	54	104	22.6	9.6	32.2	38.0	40.5	38.2
Single (never married)	1,978	1,161	457	179	181	10.7	4.3	54.0	58.7	24.3	18.2
Women, 16 years and over:											
Married, spouse present	1,059	586	276	115	81	9.8	4.5	50.5	55.4	21.5	18.5
Widowed, divorced, or separated	655	327	175	73	79	13.6	5.0	41.8	50.0	33.0	23.3
Single (never married)	1,477	977	320	97	83	8.1	3.8	64.7	66.2	11.8	12.2

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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	
	June 1988							June 1987	June 1988	June 1987	June 1988
OCCUPATION											
Managerial and professional specialty	601	313	134	87	66	11.9	4.8	40.6	52.2	35.5	25.5
Technical, sales, and administrative support	1,478	756	393	189	140	12.0	4.9	49.0	51.1	26.9	22.3
Service occupations	1,162	648	280	95	139	12.2	4.5	51.4	55.8	22.5	20.1
Precision production, craft, and repair	711	323	202	88	98	14.2	6.0	35.1	45.4	34.3	26.2
Operators, fabricators, and laborers	1,409	590	365	194	260	16.9	7.7	40.2	41.8	34.7	32.2
Farming, forestry, and fishing	212	128	40	12	32	13.7	4.1	62.2	60.7	26.7	20.6
INDUSTRY¹											
Agriculture	133	73	32	11	18	10.6	4.6	58.1	54.4	28.9	21.7
Construction	591	310	144	61	76	13.8	4.8	38.1	52.4	34.8	23.2
Manufacturing	1,017	399	249	160	209	18.5	9.1	36.1	39.2	37.6	36.3
Durable goods	568	203	145	96	124	19.9	10.2	33.6	35.7	40.3	38.7
Nondurable goods	448	196	103	64	85	16.6	7.6	39.6	43.7	33.7	33.2
Transportation and public utilities	317	130	92	52	42	14.2	6.9	34.8	41.1	37.5	29.8
Wholesale and retail trade	1,429	751	378	142	157	12.1	4.8	52.2	52.6	24.8	20.9
Finance and service industries	1,767	942	443	199	184	11.8	4.8	49.4	53.3	24.5	21.6
Public administration	161	80	34	22	26	15.5	5.1	35.0	49.6	40.1	29.4
No previous work experience	1,212	893	204	61	55	7.1	3.4	69.7	73.7	11.0	9.5

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	June 1988								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	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	6,819	5,908	20.7	7.5	74.8	34.0	19.5	5.3	1.62
16 to 19 years	1,588	1,480	14.4	3.0	78.6	22.2	20.2	4.3	1.43
20 to 24 years	1,326	1,179	20.9	7.0	77.4	32.7	17.3	4.3	1.60
25 to 34 years	1,905	1,603	25.6	7.7	72.0	38.0	19.7	5.5	1.69
35 to 44 years	1,020	839	23.2	12.3	73.8	44.5	19.3	4.2	1.77
45 to 54 years	570	460	20.4	13.7	73.0	40.9	22.2	7.6	1.78
55 to 64 years	322	269	20.1	7.1	66.2	36.8	18.6	13.4	1.62
65 years and over	90	77	13.0	5.2	74.0	33.8	24.7	9.1	1.60
Men, 16 years and over	3,628	3,075	21.9	6.3	75.5	33.0	21.2	6.4	1.64
16 to 19 years	845	771	12.8	3.2	79.4	18.0	21.0	3.9	1.38
20 to 24 years	654	568	24.3	4.9	79.4	32.4	21.7	4.2	1.67
25 to 34 years	1,025	850	27.9	5.4	72.0	38.6	22.2	8.0	1.74
35 to 44 years	525	408	27.0	11.0	76.2	42.2	17.6	6.4	1.80
45 to 54 years	318	261	19.9	13.8	71.3	42.5	22.2	9.2	1.79
55 to 64 years	204	169	18.9	7.1	65.1	41.4	19.5	14.2	1.66
65 years and over	58	49	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,191	2,832	19.5	8.8	74.1	35.2	17.7	4.1	1.59
16 to 19 years	743	709	16.1	2.8	78.0	26.8	19.3	4.8	1.48
20 to 24 years	672	612	17.5	9.0	75.3	33.0	13.1	4.4	1.52
25 to 34 years	880	753	23.1	10.4	72.0	37.5	16.9	2.7	1.62
35 to 44 years	495	431	19.7	13.7	71.5	46.6	20.9	2.1	1.74
45 to 54 years	252	199	21.1	13.6	75.9	38.7	22.1	5.5	1.77
55 to 64 years	118	100	22.0	8.0	68.0	29.0	16.0	12.0	1.55
65 years and over	32	28	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,946	4,198	19.7	6.8	75.4	37.0	19.7	5.5	1.64
Men	2,674	2,220	21.6	5.8	75.3	36.4	21.6	6.8	1.67
Women	2,272	1,979	17.5	8.0	75.5	37.7	17.6	3.9	1.60
Black, 16 years and over	1,634	1,506	22.8	9.0	74.4	25.1	18.7	4.5	1.55
Men	812	740	21.8	7.0	78.5	22.3	18.9	4.7	1.53
Women	822	767	23.9	11.0	70.4	27.8	18.5	4.3	1.56

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	June 1988								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	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	6,819	5,908	20.7	7.5	74.8	34.0	19.5	5.3	1.62
Job losers ¹	2,848	2,111	26.0	8.4	74.7	38.5	21.8	6.3	1.76
Job leavers	884	892	21.3	8.5	75.7	42.9	18.9	3.9	1.71
Reentrants	1,876	1,714	18.6	8.6	72.8	32.6	17.7	5.5	1.56
New entrants	1,210	1,191	14.1	3.4	77.4	21.6	18.3	4.3	1.39
Men, 16 years and over	3,628	3,075	21.9	6.3	75.5	33.0	21.2	6.4	1.64
Job losers ¹	1,889	1,418	25.2	5.9	73.5	37.2	22.1	8.2	1.72
Job leavers	446	445	25.6	6.5	81.6	36.9	16.4	3.6	1.71
Reentrants	745	681	19.5	9.1	74.3	31.7	22.0	6.6	1.63
New entrants	548	533	12.8	3.8	77.3	19.9	21.4	3.9	1.39
Women, 16 years and over	3,191	2,832	19.5	8.8	74.1	35.2	17.7	4.1	1.59
Job losers ¹	959	693	27.4	13.9	77.2	41.1	21.4	2.6	1.84
Job leavers	439	447	17.0	10.5	69.8	48.8	21.5	4.3	1.72
Reentrants	1,130	1,034	17.9	8.3	72.2	33.0	14.8	4.7	1.51
New entrants	662	657	15.2	3.0	77.6	23.0	15.8	4.6	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	
	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988
All industries	113,498	116,209	63,045	64,473	50,453	51,736
16 to 19 years	7,418	7,887	3,862	4,122	3,556	3,764
16 to 17 years	3,072	3,192	1,646	1,688	1,425	1,504
18 to 19 years	4,347	4,695	2,215	2,435	2,131	2,260
20 to 24 years	13,908	13,772	7,326	7,288	6,582	6,484
25 to 54 years	77,615	79,974	43,258	44,475	34,357	35,498
25 to 34 years	33,166	33,499	18,608	18,686	14,558	14,813
35 to 44 years	26,994	28,075	14,886	15,505	12,107	12,570
45 to 54 years	17,455	18,400	9,765	10,284	7,691	8,116
55 to 64 years	11,441	11,323	6,674	6,580	4,767	4,743
55 to 59 years	6,989	6,844	4,069	3,965	2,920	2,879
60 to 64 years	4,452	4,479	2,605	2,615	1,847	1,864
65 years and over	3,117	3,253	1,926	2,007	1,191	1,247
Agriculture	3,661	3,546	2,876	2,760	786	785
16 to 19 years	418	425	343	345	75	81
16 to 17 years	241	212	199	169	42	43
18 to 19 years	177	214	144	175	33	38
20 to 24 years	424	442	342	350	81	91
25 to 54 years	1,959	1,856	1,498	1,411	460	445
25 to 34 years	895	834	719	654	176	181
35 to 44 years	568	580	424	427	144	153
45 to 54 years	496	442	355	330	141	112
55 to 64 years	511	472	391	359	120	113
55 to 59 years	265	250	201	186	65	64
60 to 64 years	246	222	190	173	56	49
65 years and over	350	350	302	295	48	55
Nonagricultural industries	109,837	112,663	60,170	61,712	49,667	50,951
16 to 19 years	7,000	7,461	3,519	3,778	3,481	3,683
16 to 17 years	2,831	2,980	1,448	1,519	1,383	1,461
18 to 19 years	4,170	4,481	2,071	2,259	2,098	2,222
20 to 24 years	13,484	13,331	6,983	6,938	6,501	6,393
25 to 54 years	75,656	78,117	41,760	43,064	33,895	35,054
25 to 34 years	32,271	32,665	17,889	18,033	14,382	14,632
35 to 44 years	26,426	27,495	14,462	15,078	11,964	12,417
45 to 54 years	16,959	17,958	9,410	9,954	7,550	8,004
55 to 64 years	10,930	10,850	6,283	6,220	4,647	4,630
55 to 59 years	6,724	6,594	3,868	3,779	2,856	2,815
60 to 64 years	4,206	4,256	2,415	2,442	1,791	1,814
65 years and over	2,767	2,903	1,624	1,711	1,143	1,192

**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	
	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988
Total	113,498	116,209	63,045	64,473	59,184	60,350	50,453	51,736	46,896	47,972
Managerial and professional specialty	27,233	29,181	15,226	16,165	15,117	16,029	12,007	13,016	11,864	12,860
Executive, administrative, and managerial	13,246	14,569	8,286	8,765	8,239	8,709	4,960	5,804	4,894	5,741
Officials and administrators, public administration	529	555	318	333	318	329	211	222	210	216
Other executive, administrative, and managerial	9,199	10,151	6,125	6,523	6,085	6,483	3,074	3,628	3,028	3,580
Management-related occupations	3,517	3,862	1,843	1,909	1,836	1,897	1,675	1,954	1,656	1,944
Professional specialty	13,988	14,612	6,941	7,400	6,878	7,321	7,047	7,212	6,970	7,119
Engineers	1,676	1,889	1,538	1,747	1,536	1,745	138	143	138	141
Mathematical and computer scientists	708	771	463	510	463	510	245	261	245	260
Natural scientists	378	410	276	295	276	295	102	115	102	115
Health diagnosing occupations	762	791	648	638	647	638	115	153	115	153
Health assessment and treating occupations	2,116	2,138	264	337	264	333	1,852	1,801	1,849	1,800
Teachers, college and university	564	602	349	356	349	354	215	246	210	243
Teachers, except college and university	3,332	3,320	918	907	905	885	2,413	2,413	2,390	2,383
Lawyers and judges	716	759	571	600	571	600	145	159	145	159
Other professional specialty occupations	3,736	3,931	1,914	2,010	1,866	1,960	1,821	1,921	1,775	1,864
Technical, sales, and administrative support	35,386	35,310	12,595	12,380	11,918	11,626	22,791	22,930	20,959	20,970
Technicians and related support	3,405	3,388	1,778	1,818	1,752	1,758	1,628	1,570	1,604	1,553
Health technologists and technicians	1,137	1,208	177	241	176	235	960	967	952	964
Engineering and science technicians	1,179	1,096	942	866	934	835	237	230	231	225
Technicians, except health, engineering, and science	1,089	1,083	659	711	642	687	430	372	421	365
Sales occupations	13,703	13,885	7,125	7,047	6,702	6,591	6,577	6,838	5,485	5,676
Supervisors and proprietors	3,658	3,697	2,474	2,443	2,446	2,405	1,183	1,254	1,162	1,236
Sales representatives, finance and business services	2,389	2,459	1,395	1,403	1,376	1,365	994	1,056	947	1,007
Sales representatives, commodities, except retail	1,583	1,507	1,324	1,239	1,315	1,237	259	268	250	256
Sales workers, retail and personal services	6,001	6,164	1,905	1,938	1,541	1,559	4,095	4,226	3,086	3,145
Sales-related occupations	72	58	27	24	24	24	45	34	40	33
Administrative support, including clerical	18,278	18,038	3,692	3,515	3,464	3,278	14,586	14,523	13,870	13,741
Supervisors	681	778	305	340	300	339	376	438	376	434
Computer equipment operators	966	875	326	293	308	278	639	582	605	550
Secretaries, stenographers, and typists	4,935	4,848	98	113	89	102	4,837	4,735	4,630	4,506
Financial records processing	2,616	2,384	245	201	242	183	2,371	2,184	2,329	2,144
Mail and message distributing	994	879	657	560	626	528	337	319	323	301
Other administrative support, including clerical	8,086	8,273	2,060	2,008	1,898	1,847	6,026	6,265	5,607	5,806
Service occupations	15,219	15,390	5,962	6,129	4,994	5,069	9,258	9,261	8,006	7,963
Private household	917	941	37	41	23	31	879	900	672	688
Protective service	2,003	1,970	1,695	1,676	1,645	1,583	307	294	262	238
Service, except private household and protective	12,300	12,479	4,229	4,412	3,327	3,455	8,071	8,067	7,072	7,036
Food service	5,335	5,134	1,920	1,969	1,252	1,283	3,415	3,165	2,729	2,439
Health service	1,859	2,004	208	234	188	220	1,651	1,771	1,578	1,684
Cleaning and building service	2,887	3,069	1,692	1,726	1,530	1,547	1,195	1,344	1,117	1,246
Personal service	2,219	2,271	408	483	357	405	1,811	1,788	1,647	1,667
Precision production, craft, and repair	13,695	14,087	12,500	12,855	12,177	12,487	1,195	1,231	1,161	1,203
Mechanics and repairers	4,389	4,582	4,252	4,457	4,150	4,346	137	124	130	123
Construction trades	5,087	5,400	4,956	5,267	4,777	5,062	131	133	126	130
Other precision production, craft, and repair	4,218	4,105	3,292	3,132	3,250	3,078	927	974	904	950
Operators, fabricators, and laborers	17,755	18,238	13,258	13,617	11,991	12,279	4,497	4,622	4,282	4,391
Machine operators, assemblers, and inspectors	8,024	8,346	4,720	4,976	4,518	4,741	3,304	3,370	3,213	3,273
Manufacturing industries	6,677	6,843	3,845	4,009	3,706	3,840	2,832	2,834	2,767	2,754
Durable goods	3,640	3,746	2,479	2,577	2,397	2,502	1,161	1,169	1,129	1,136
Nondurable goods	3,037	3,097	1,366	1,432	1,309	1,338	1,671	1,665	1,638	1,618
Nonmanufacturing industries	1,347	1,503	875	967	812	900	472	536	446	519
Transportation and material moving occupations	4,750	4,902	4,383	4,481	4,235	4,305	367	421	352	396
Motor vehicle operators	3,448	3,602	3,117	3,216	2,988	3,075	331	386	317	365
Other transportation and material moving occupations	1,302	1,300	1,266	1,265	1,247	1,231	36	35	35	31
Handlers, equipment cleaners, helpers, and laborers	4,981	4,990	4,156	4,159	3,238	3,232	826	831	717	721
Construction laborers	855	876	828	833	718	690	27	43	25	41
Other handlers, equipment cleaners, helpers, and laborers	4,126	4,113	3,328	3,326	2,520	2,543	799	787	692	680
Farming, forestry, and fishing	4,210	4,003	3,505	3,327	2,986	2,860	705	676	625	586
Farm operators and managers	1,405	1,314	1,183	1,104	1,163	1,085	222	210	222	206
Other farming, forestry, and fishing occupations	2,805	2,689	2,322	2,223	1,823	1,776	483	466	404	380

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	June 1987	June 1988	June 1987	June 1988	June 1987	June 1988
TOTAL						
Total, 16 years and over (thousands)	113,498	116,209	63,045	64,473	50,453	51,736
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	24.0	25.1	24.2	25.1	23.8	25.2
Executive, administrative, and managerial	11.7	12.5	13.1	13.6	9.8	11.2
Professional specialty	12.3	12.6	11.0	11.5	14.0	13.9
Technical, sales, and administrative support	31.2	30.4	20.0	19.2	45.2	44.3
Technicians and related support	3.0	2.9	2.8	2.8	3.2	3.0
Sales occupations	12.1	11.9	11.3	10.9	13.0	13.2
Administrative support, including clerical	16.1	15.5	5.9	5.5	28.9	28.1
Service occupations	13.4	13.2	9.5	9.5	18.3	17.9
Private household .....	.8	.8	.1	.1	1.7	1.7
Protective service	1.8	1.7	2.7	2.6	.6	.6
Service, except private household and protective	10.8	10.7	6.7	6.8	16.0	15.6
Precision production, craft, and repair	12.1	12.1	19.8	19.9	2.4	2.4
Operators, fabricators, and laborers	15.6	15.7	21.0	21.1	8.9	8.9
Machine operators, assemblers, and inspectors	7.1	7.2	7.5	7.7	6.5	6.5
Transportation and material moving occupations	4.2	4.2	7.0	7.0	.7	.8
Handlers, equipment cleaners, helpers, and laborers	4.4	4.3	6.6	6.5	1.6	1.6
Farming, forestry, and fishing	3.7	3.4	5.6	5.2	1.4	1.3
White						
Total, 16 years and over (thousands)	98,796	101,069	55,532	56,663	43,264	44,406
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	24.9	26.1	25.1	26.1	24.7	26.2
Executive, administrative, and managerial	12.3	13.2	13.9	14.3	10.3	11.7
Professional specialty	12.6	13.0	11.3	11.8	14.4	14.5
Technical, sales, and administrative support	31.7	30.8	20.3	19.5	46.3	45.2
Technicians and related support	3.0	2.8	2.9	2.8	3.2	2.9
Sales occupations	12.7	12.5	12.0	11.6	13.7	13.8
Administrative support, including clerical	16.0	15.4	5.5	5.2	29.5	28.4
Service occupations	12.2	11.9	8.4	8.4	17.0	16.5
Private household .....	.7	.7	.1	.1	1.5	1.5
Protective service	1.6	1.6	2.5	2.4	.5	.5
Service, except private household and protective	9.9	9.7	5.9	5.9	15.0	14.4
Precision production, craft, and repair	12.6	12.6	20.5	20.6	2.4	2.4
Operators, fabricators, and laborers	14.7	15.0	19.8	20.2	8.1	8.4
Machine operators, assemblers, and inspectors	6.6	6.8	7.2	7.4	5.9	6.0
Transportation and material moving occupations	4.0	4.1	6.6	6.6	.7	.8
Handlers, equipment cleaners, helpers, and laborers	4.1	4.2	6.1	6.2	1.5	1.6
Farming, forestry, and fishing	3.9	3.6	5.8	5.3	1.5	1.5
Black						
Total, 16 years and over (thousands)	11,346	11,597	5,716	5,894	5,630	5,703
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	14.9	15.5	13.3	13.5	16.6	17.6
Executive, administrative, and managerial	6.3	7.0	6.5	6.6	6.1	7.5
Professional specialty	8.6	8.5	6.8	6.9	10.5	10.2
Technical, sales, and administrative support	26.5	26.4	15.3	15.5	37.9	37.6
Technicians and related support	2.5	3.0	1.6	3.0	3.4	3.0
Sales occupations	6.7	6.6	4.5	4.7	8.9	8.5
Administrative support, including clerical	17.4	16.8	9.2	7.8	25.7	26.1
Service occupations	23.5	24.1	18.9	19.3	28.3	29.0
Private household	1.9	1.8	.1	.2	3.7	3.4
Protective service	3.3	2.8	5.1	4.4	1.4	1.3
Service, except private household and protective	18.4	19.4	13.7	14.7	23.2	24.3
Precision production, craft, and repair	8.7	9.3	15.3	16.1	2.0	2.2
Operators, fabricators, and laborers	24.0	22.5	33.4	31.6	14.5	13.1
Machine operators, assemblers, and inspectors	10.5	10.7	10.4	10.8	10.7	10.6
Transportation and material moving occupations	6.2	6.2	11.3	11.3	1.1	1.0
Handlers, equipment cleaners, helpers, and laborers	7.2	5.6	11.7	9.5	2.7	1.5
Farming, forestry, and fishing	2.2	2.3	3.8	4.1	.6	.4

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Age and sex	June 1988								
	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	103,780	1,227	16,672	85,881	8,568	315	1,862	1,466	217
16 to 19 years	7,368	285	450	6,634	55	38	348	35	41
16 to 17 years	2,945	177	139	2,630	20	15	167	16	29
18 to 19 years	4,423	108	311	4,004	35	23	181	20	12
20 to 24 years	12,995	145	1,092	11,758	303	33	342	87	13
25 to 34 years	30,660	182	4,149	26,329	1,941	63	519	283	31
35 to 44 years	24,926	187	5,092	19,647	2,510	58	270	275	35
45 to 54 years	16,035	157	3,488	12,390	1,865	58	171	234	37
55 to 64 years	9,493	153	1,994	7,346	1,314	43	143	293	36
55 to 59 years	5,807	82	1,235	4,490	755	31	73	154	23
60 to 64 years	3,686	70	759	2,856	559	12	71	139	13
65 years and over	2,302	119	406	1,777	579	22	68	259	23
Men, 16 years and over	56,033	206	8,111	47,717	5,607	72	1,458	1,221	81
16 to 19 years	3,718	65	231	3,422	30	30	285	32	28
16 to 17 years	1,497	43	69	1,385	8	13	135	16	19
18 to 19 years	2,220	22	162	2,037	22	16	150	16	9
20 to 24 years	6,710	35	516	6,159	210	18	265	76	9
25 to 34 years	16,838	30	2,006	14,801	1,184	11	399	244	10
35 to 44 years	13,438	21	2,408	11,010	1,639	1	197	221	10
45 to 54 years	8,727	22	1,705	7,000	1,224	3	139	184	8
55 to 64 years	5,316	13	1,028	4,276	901	3	114	238	7
55 to 59 years	3,262	5	618	2,639	514	2	60	123	3
60 to 64 years	2,054	7	410	1,637	387	1	54	115	4
65 years and over	1,287	20	217	1,050	418	6	60	227	9
Women, 16 years and over	47,747	1,021	8,561	38,165	2,960	244	405	245	136
16 to 19 years	3,650	220	219	3,212	25	8	64	4	14
16 to 17 years	1,448	134	70	1,244	12	1	33	-	10
18 to 19 years	2,202	86	149	1,968	13	7	31	4	4
20 to 24 years	6,285	109	576	5,599	93	15	77	11	3
25 to 34 years	13,823	151	2,143	11,529	757	53	120	39	21
35 to 44 years	11,488	166	2,684	8,637	871	58	74	54	25
45 to 54 years	7,309	136	1,784	5,389	641	55	33	50	29
55 to 64 years	4,177	140	966	3,071	413	40	29	54	29
55 to 59 years	2,545	77	617	1,851	241	29	13	30	20
60 to 64 years	1,632	63	349	1,220	172	11	16	24	9
65 years and over	1,015	99	189	727	161	16	8	32	15

A-25. Employed civilians by industry and occupation

(In thousands)

Industry	June 1988												
	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	3,546	89	72	23	15	98		23	42	12	44	28	3,100
Mining	763	111	77	42	8	106		3	237	33	107	38	2
Construction	8,196	1,067	133	50	86	475		30	4,632	107	568	1,014	35
Manufacturing	21,723	2,476	1,847	640	778	2,453		319	4,276	6,843	881	1,100	110
Durable goods	12,762	1,507	1,270	452	304	1,330		193	2,907	3,746	439	519	93
Nondurable goods	8,961	968	577	187	474	1,123		126	1,369	3,097	442	581	17
Transportation and public utilities	8,168	1,002	472	228	393	2,054		266	1,266	154	1,825	501	8
Wholesale and retail trade	23,843	2,055	459	103	9,840	2,372		4,412	1,398	361	962	1,830	51
Wholesale trade	4,544	518	89	38	1,745	822		37	265	176	488	340	26
Retail trade	19,299	1,537	369	65	8,094	1,551		4,375	1,133	185	474	1,490	25
Finance, insurance, and real estate	8,061	2,099	170	140	1,855	3,197	-	292	162	8	14	36	89
Services	36,397	4,525	10,567	1,877	870	5,842	941	7,787	1,826	800	436	401	524
Private households	1,245	5	3	8	2	16	941	102	25	1	6	25	110
Other service industries	35,152	4,521	10,564	1,869	868	5,826		7,684	1,801	799	430	376	414
Professional services	22,651	2,520	9,242	1,499	129	4,192		4,075	363	211	219	92	109
Public administration	5,513	1,145	814	285	40	1,441		1,317	249	28	66	41	85

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					
	June 1987	June 1988	Total		Wage and salary workers ¹			
			June 1987	June 1988	Paid absences		Unpaid absences	
					June 1987	June 1988	June 1987	June 1988
Total, 16 years and over	7,160	7,758	7,053	7,623	3,928	4,235	2,562	2,729
Vacation	4,732	5,280	4,694	5,220	3,141	3,420	1,288	1,470
Illness	1,232	1,321	1,207	1,306	508	544	616	633
Bad weather	73	23	55	14	(²)	(²)	(²)	(²)
Industrial dispute	20	26	20	25	(²)	(²)	(²)	(²)
All other reasons	1,103	1,108	1,077	1,057	278	271	658	626
Men, 16 years and over	3,152	3,395	3,067	3,298	1,828	1,976	942	956
Vacation	2,018	2,193	1,993	2,155	1,475	1,588	384	410
Illness	626	689	603	676	254	285	301	303
All other reasons ³	507	514	471	466	99	102	258	242
Women, 16 years and over	4,008	4,363	3,986	4,325	2,099	2,260	1,621	1,773
Vacation	2,713	3,087	2,702	3,064	1,666	1,832	905	1,060
Illness	606	632	604	630	254	258	316	329
All other reasons ³	688	645	681	631	180	169	400	384

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	June 1988					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	108,451	3,410	105,040	100.0	100.0	100.0
1 to 34 hours	23,875	913	22,962	22.0	26.8	21.9
1 to 4 hours	746	51	695	.7	1.5	.7
5 to 14 hours	3,669	198	3,471	3.4	5.8	3.3
15 to 29 hours	12,263	429	11,834	11.3	12.6	11.3
30 to 34 hours	7,197	235	6,962	6.6	6.9	6.6
35 hours and over	84,576	2,497	82,080	78.0	73.2	78.1
35 to 39 hours	7,317	117	7,201	6.7	3.4	6.9
40 hours	44,770	740	44,030	41.3	21.7	41.9
41 hours and over	32,489	1,640	30,849	30.0	48.1	29.4
41 to 48 hours	11,703	252	11,451	10.8	7.4	10.9
49 to 59 hours	11,773	464	11,309	10.9	13.6	10.8
60 hours and over	9,013	924	8,089	8.3	27.1	7.7
Average hours, total at work	39.9	45.9	39.7			
Average hours, workers on full-time schedules	43.9	54.0	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	June 1988					
	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	23,875	6,853	17,022	22,962	6,616	16,346
Economic reasons	5,785	1,776	4,009	5,492	1,666	3,826
Slack work	2,251	1,301	950	2,098	1,207	891
Material shortages or repairs to plant and equipment	73	73	-	73	73	-
New job started during week	305	305	-	290	290	-
Job terminated during week	98	98	-	96	96	-
Could find only part-time work	3,059	-	3,059	2,935	-	2,935
Other reasons	18,088	5,075	13,013	17,470	4,950	12,520
Does not want, or unavailable for, full-time work	10,574	-	10,574	10,174	-	10,174
Vacation	2,018	2,018	-	1,987	1,987	-
Illness	1,264	1,140	124	1,240	1,124	116
Bad weather	145	145	-	110	110	-
Industrial dispute	12	12	-	12	12	-
Legal or religious holiday	54	54	-	54	54	-
Full time for this job	1,665	-	1,665	1,632	-	1,632
All other reasons	2,358	1,708	650	2,263	1,665	598
Average hours:						
Economic reasons	21.8	24.1	20.8	21.9	24.2	20.9
Other reasons	21.8	25.8	20.2	21.9	25.8	20.3
Worked 30 to 34 hours:						
Economic reasons	1,742	789	953	1,654	740	914
Other reasons	5,455	2,606	2,849	5,308	2,548	2,760

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

(Numbers in thousands)

Industry	June 1988								
	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	105,040	5,492	12,520	87,028	56,179	11,451	19,398	39.7	43.6
Wage and salary workers	96,764	4,949	11,089	80,726	53,408	10,916	16,402	39.5	43.2
Mining	710	24	25	661	382	97	182	44.1	45.7
Construction	6,416	483	258	5,675	3,694	714	1,267	41.0	43.5
Manufacturing	20,358	499	596	19,263	12,234	3,212	3,817	42.3	43.4
Durable goods	12,032	191	242	11,599	7,230	1,960	2,409	42.8	43.5
Nondurable goods	8,326	308	354	7,664	5,003	1,252	1,409	41.5	43.1
Transportation and public utilities	7,287	196	343	6,748	4,337	922	1,489	42.4	44.1
Wholesale and retail trade	20,878	1,829	4,187	14,862	9,022	2,291	3,549	37.4	43.9
Finance, insurance, and real estate	6,978	161	613	6,204	4,327	769	1,108	39.9	42.2
Service industries	28,966	1,694	4,821	22,451	15,745	2,450	4,256	37.5	42.6
Private households	1,185	232	476	477	313	35	129	27.6	45.9
All other industries	27,781	1,462	4,345	21,974	15,432	2,415	4,127	37.9	42.5
Public administration	5,171	62	246	4,863	3,670	459	734	40.8	42.1
Self-employed workers	7,961	532	1,296	6,133	2,707	509	2,917	41.8	48.7
Unpaid family workers	315	11	136	168	64	26	78	36.4	48.8

**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	June 1988							
	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	105,040	5,492	12,520	87,028	56,179	30,849	39.7	43.6
16 to 19 years	7,148	1,252	2,706	3,190	2,462	728	28.9	40.6
16 to 17 years	2,853	602	1,495	756	604	152	24.1	39.8
18 to 19 years	4,295	650	1,211	2,434	1,858	576	32.1	40.9
20 years and over	97,893	4,240	9,814	83,839	53,719	30,120	40.4	43.7
20 to 24 years	12,811	986	1,522	10,303	7,193	3,110	38.6	42.6
25 years and over	85,081	3,255	8,292	73,534	46,523	27,011	40.7	43.8
25 to 44 years	55,993	2,248	4,360	49,385	30,578	18,807	41.3	44.0
45 to 64 years	26,406	896	2,688	22,822	15,001	7,821	40.5	43.6
65 years and over	2,683	110	1,244	1,329	947	382	29.9	42.0
Men, 16 years and over								
Men, 16 years and over	58,414	2,536	3,624	52,254	29,916	22,338	42.6	45.1
16 to 19 years	3,647	622	1,186	1,839	1,356	483	30.6	41.4
16 to 17 years	1,463	315	675	473	374	99	25.9	40.6
18 to 19 years	2,183	307	511	1,365	980	385	33.7	41.7
20 years and over	54,767	1,914	2,438	50,415	28,560	21,855	43.4	45.2
20 to 24 years	6,710	477	577	5,656	3,611	2,045	40.3	43.6
25 years and over	48,058	1,437	1,861	44,760	24,950	19,810	43.8	45.5
25 to 44 years	31,445	1,030	609	29,806	16,113	13,693	44.5	45.7
45 to 64 years	15,024	356	566	14,102	8,266	5,836	43.6	45.1
65 years and over	1,589	51	686	852	572	280	31.2	42.6
Women, 16 years and over								
Women, 16 years and over	46,626	2,955	8,896	34,775	26,266	8,509	36.0	41.2
16 to 19 years	3,501	631	1,520	1,350	1,106	244	27.1	39.6
16 to 17 years	1,390	287	820	283	231	52	22.1	38.6
18 to 19 years	2,112	344	700	1,068	877	191	30.4	39.8
20 years and over	43,125	2,325	7,376	33,424	25,159	8,265	36.7	41.3
20 to 24 years	6,101	509	945	4,647	3,583	1,064	36.6	41.3
25 years and over	37,024	1,817	6,431	28,776	21,574	7,202	36.8	41.3
25 to 44 years	24,549	1,217	3,751	19,581	14,468	5,113	37.3	41.4
45 to 64 years	11,381	542	2,123	8,716	6,731	1,985	36.3	41.1
65 years and over	1,095	58	558	479	377	102	28.0	40.9
RACE								
White, 16 years and over								
White, 16 years and over	90,954	4,479	11,234	75,241	47,205	28,036	39.8	43.8
Men	51,179	2,050	3,212	45,917	25,460	20,457	42.8	45.3
Women	39,776	2,429	8,022	29,325	21,748	7,577	35.9	41.3
Black, 16 years and over								
Black, 16 years and over	10,762	845	920	8,997	7,057	1,940	38.4	41.7
Men	5,449	413	311	4,725	3,443	1,282	40.0	42.8
Women	5,313	432	609	4,272	3,615	657	36.7	40.4
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	36,634	887	1,303	34,444	18,700	15,744	44.1	45.6
Widowed, divorced, or separated	5,799	248	285	5,266	2,963	2,303	43.4	45.7
Single (never married)	15,981	1,401	2,036	12,544	8,251	4,293	38.6	43.5
Women, 16 years and over:								
Married, spouse present	24,977	1,225	5,322	18,430	14,269	4,161	35.5	40.8
Widowed, divorced, or separated	8,948	493	1,124	7,331	5,234	2,097	38.3	42.0
Single (never married)	12,702	1,237	2,450	9,015	6,763	2,252	35.3	41.5

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Occupation and sex	June 1988								
	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 ¹	104,623	5,376	12,463	86,784	55,932	11,437	19,415	39.7	43.6
Managerial and professional specialty	26,331	435	2,144	23,752	13,551	3,046	7,155	42.4	44.8
Executive, administrative, and managerial	13,844	145	687	13,012	6,821	1,656	4,535	44.5	45.9
Professional specialty	12,486	289	1,457	10,740	6,730	1,390	2,620	40.2	43.5
Technical, sales, and administrative support	33,188	1,509	5,135	26,544	18,472	3,217	4,856	38.2	42.5
Technicians and related support	3,172	54	286	2,832	1,986	368	479	40.4	42.7
Sales occupations	13,151	836	2,383	9,933	5,424	1,363	3,146	39.3	45.2
Administrative support, including clerical	16,864	619	2,466	13,779	11,062	1,486	1,231	36.9	40.6
Service occupations	14,414	1,666	3,529	9,219	6,720	980	1,519	34.5	42.5
Private household	910	151	383	377	251	32	94	27.9	45.1
Protective service	1,850	62	165	1,623	988	228	407	42.5	45.4
Service, except private household and protective	11,654	1,453	2,981	7,220	5,480	721	1,018	33.7	41.8
Precision production, craft, and repair	13,427	630	476	12,321	7,466	1,947	2,908	42.3	44.1
Operators, fabricators, and laborers	17,264	1,138	1,178	14,948	9,723	2,248	2,977	40.8	43.6
Machine operators, assemblers, and inspectors	7,907	368	284	7,256	5,059	1,186	1,011	40.8	42.4
Transportation and material moving occupations	4,562	197	271	4,093	2,092	607	1,395	44.1	46.7
Handlers, equipment cleaners, helpers, and laborers	4,795	572	623	3,599	2,573	455	571	37.4	42.5
Men, 16 years and over ¹	57,886	2,422	3,539	51,924	29,624	7,357	14,943	42.7	45.1
Managerial and professional specialty	15,103	187	587	14,329	7,097	1,791	5,440	45.3	46.7
Executive, administrative, and managerial	8,369	66	235	8,068	3,573	987	3,508	46.7	47.7
Professional specialty	6,734	121	352	6,261	3,525	804	1,932	43.6	45.4
Technical, sales, and administrative support	11,791	318	872	10,601	5,844	1,503	3,254	42.8	45.3
Technicians and related support	1,725	22	60	1,642	1,039	237	366	42.8	44.0
Sales occupations	6,728	182	529	6,017	2,714	871	2,432	44.5	47.3
Administrative support, including clerical	3,338	114	282	2,942	2,090	396	456	39.6	42.1
Service occupations	5,839	550	942	4,347	2,994	507	847	37.8	43.7
Private household	41	10	10	21	20	1	-	(²)	(²)
Protective service	1,571	37	123	1,411	826	205	380	43.5	46.0
Service, except private household and protective	4,228	503	809	2,915	2,147	300	468	35.8	42.7
Precision production, craft, and repair	12,240	575	359	11,305	6,750	1,781	2,775	42.6	44.3
Operators, fabricators, and laborers	12,913	792	779	11,342	6,940	1,775	2,627	41.7	44.4
Machine operators, assemblers, and inspectors	4,699	154	113	4,432	2,854	805	773	42.2	43.4
Transportation and material moving occupations	4,208	162	199	3,847	1,936	577	1,333	44.7	46.9
Handlers, equipment cleaners, helpers, and laborers	4,006	476	467	3,063	2,149	393	520	37.8	42.7
Women, 16 years and over ¹	46,738	2,953	8,924	34,860	26,308	4,080	4,472	36.0	41.2
Managerial and professional specialty	11,228	248	1,557	9,423	6,453	1,254	1,715	38.6	42.1
Executive, administrative, and managerial	5,475	80	452	4,944	3,248	668	1,027	41.1	43.1
Professional specialty	5,753	168	1,105	4,479	3,205	586	688	36.2	40.9
Technical, sales, and administrative support	21,397	1,191	4,263	15,943	12,628	1,714	1,602	35.6	40.7
Technicians and related support	1,448	32	226	1,190	946	131	113	37.6	41.0
Sales occupations	6,423	653	1,854	3,916	2,710	493	714	33.8	42.1
Administrative support, including clerical	13,526	505	2,184	10,837	8,972	1,090	775	36.3	40.2
Service occupations	8,575	1,115	2,587	4,872	3,726	474	672	32.2	41.5
Private household	870	141	373	356	231	30	95	27.9	45.5
Protective service	279	25	42	212	162	23	27	36.3	41.2
Service, except private household and protective	7,426	950	2,172	4,304	3,333	421	550	32.5	41.2
Precision production, craft, and repair	1,187	55	117	1,016	717	166	133	39.0	42.0
Operators, fabricators, and laborers	4,351	345	399	3,606	2,784	472	350	38.0	41.1
Machine operators, assemblers, and inspectors	3,208	214	171	2,823	2,205	381	238	38.8	40.8
Transportation and material moving occupations	354	35	72	246	155	30	61	37.2	43.7
Handlers, equipment cleaners, helpers, and laborers	789	96	157	536	424	61	51	35.2	41.2

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	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
TOTAL													
Noninstitutional population ¹	184,421	184,605	184,738	184,904	185,052	185,225	185,370	185,571	185,705	185,847	185,964	186,088	186,247
Labor force ¹	121,326	121,610	122,042	121,706	122,128	122,349	122,472	122,924	123,084	122,639	123,055	122,692	123,157
Percent of population ²	65.8	65.9	66.1	65.8	66.0	66.1	66.1	66.2	66.3	66.0	66.2	65.9	66.1
Total employed ¹	114,018	114,359	114,786	114,615	114,951	115,259	115,494	115,878	116,145	115,839	116,445	115,909	116,703
Employment-population ratio ³	61.8	61.9	62.1	62.0	62.1	62.2	62.3	62.4	62.5	62.3	62.6	62.3	62.7
Resident Armed Forces	1,718	1,720	1,736	1,743	1,741	1,755	1,750	1,749	1,736	1,736	1,732	1,714	1,685
Civilian employed	112,300	112,639	113,050	112,872	113,210	113,504	113,744	114,129	114,409	114,103	114,713	114,195	115,018
Agriculture	3,192	3,212	3,143	3,184	3,249	3,172	3,215	3,293	3,228	3,204	3,228	3,035	3,085
Nonagricultural industries	109,108	109,427	109,907	109,688	109,961	110,332	110,529	110,836	111,182	110,899	111,485	111,160	111,933
Unemployed	7,308	7,251	7,256	7,091	7,177	7,090	6,978	7,046	6,938	6,801	6,610	6,783	6,455
Unemployment rate ⁴	6.0	6.0	5.9	5.8	5.9	5.8	5.7	5.7	5.6	5.5	5.4	5.5	5.2
Not in labor force	63,095	62,995	62,696	63,198	62,924	62,876	62,898	62,647	62,621	63,208	62,909	63,396	63,090
Men													
Noninstitutional population ¹	88,442	88,534	88,598	88,683	88,756	88,849	88,924	89,033	89,099	89,168	89,225	89,287	89,367
Labor force ¹	67,623	67,671	67,937	67,776	67,947	68,019	68,030	68,243	68,343	68,148	68,445	68,318	68,429
Percent of population ²	76.5	76.4	76.7	76.4	76.6	76.6	76.5	76.6	76.7	76.4	76.7	76.5	76.6
Total employed ¹	63,543	63,711	63,916	63,949	64,048	64,174	64,245	64,396	64,636	64,332	64,892	64,583	64,934
Employment-population ratio ³	71.8	72.0	72.1	72.1	72.2	72.2	72.2	72.3	72.5	72.1	72.7	72.3	72.7
Resident Armed Forces	1,559	1,561	1,575	1,581	1,580	1,593	1,589	1,588	1,577	1,573	1,569	1,553	1,523
Civilian employed	61,984	62,150	62,341	62,368	62,468	62,581	62,656	62,808	63,059	62,759	63,323	63,030	63,411
Unemployed	4,080	3,960	4,021	3,827	3,899	3,845	3,785	3,847	3,707	3,816	3,553	3,736	3,495
Unemployment rate ⁴	6.0	5.9	5.9	5.6	5.7	5.7	5.6	5.6	5.4	5.6	5.2	5.5	5.1
Not in labor force	20,819	20,863	20,661	20,907	20,809	20,830	20,894	20,790	20,756	21,020	20,780	20,969	20,938
Women													
Noninstitutional population ¹	95,979	96,071	96,140	96,221	96,295	96,376	96,446	96,538	96,606	96,679	96,739	96,801	96,880
Labor force ¹	53,703	53,939	54,105	53,930	54,181	54,330	54,442	54,681	54,740	54,491	54,610	54,374	54,728
Percent of population ²	56.0	56.1	56.3	56.0	56.3	56.4	56.4	56.6	56.7	56.4	56.5	56.2	56.5
Total employed ¹	50,475	50,648	50,870	50,666	50,903	51,085	51,249	51,482	51,509	51,507	51,553	51,327	51,769
Employment-population ratio ³	52.6	52.7	52.9	52.7	52.9	53.0	53.1	53.3	53.3	53.3	53.3	53.0	53.4
Resident Armed Forces	159	159	161	162	161	162	161	161	159	163	163	161	162
Civilian employed	50,316	50,489	50,709	50,504	50,742	50,923	51,088	51,321	51,350	51,344	51,390	51,166	51,607
Unemployed	3,228	3,291	3,235	3,264	3,278	3,245	3,193	3,200	3,231	2,985	3,057	3,047	2,960
Unemployment rate ⁴	6.0	6.1	6.0	6.1	6.1	6.0	5.9	5.9	5.9	5.5	5.6	5.6	5.4
Not in labor force	42,276	42,132	42,035	42,291	42,114	42,046	42,004	41,857	41,866	42,188	42,129	42,427	42,152

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.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, sex, and age	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
TOTAL													
Civilian noninstitutional population ¹	182,703	182,885	183,002	183,161	183,311	183,470	183,620	183,822	183,969	184,111	184,232	184,374	184,562
Civilian labor force	119,608	119,890	120,306	119,963	120,387	120,594	120,722	121,175	121,348	120,903	121,323	120,978	121,472
Percent of population	65.5	65.6	65.7	65.5	65.7	65.7	65.7	65.9	66.0	65.7	65.9	65.6	65.8
Employed	112,300	112,639	113,050	112,872	113,210	113,504	113,744	114,129	114,409	114,103	114,713	114,195	115,018
Employment-population ratio ²	61.5	61.6	61.8	61.6	61.8	61.9	61.9	62.1	62.2	62.0	62.3	61.9	62.3
Unemployed	7,308	7,251	7,256	7,091	7,177	7,090	6,978	7,046	6,938	6,801	6,610	6,783	6,455
Unemployment rate	6.1	6.0	6.0	5.9	6.0	5.9	5.8	5.8	5.7	5.6	5.4	5.6	5.3
Men, 20 years and over													
Civilian noninstitutional population ¹	79,536	79,625	79,668	79,740	79,807	79,885	80,002	80,120	80,203	80,260	80,326	80,402	80,526
Civilian labor force	62,054	62,106	62,083	62,085	62,211	62,299	62,248	62,440	62,696	62,497	62,791	62,662	62,667
Percent of population	78.0	78.0	77.9	77.9	78.0	78.0	77.8	77.9	78.2	77.9	78.2	77.9	77.8
Employed	58,632	58,783	58,825	58,967	59,037	59,164	59,185	59,287	59,625	59,407	59,883	59,590	59,797
Employment-population ratio ²	73.7	73.8	73.8	73.9	74.0	74.1	74.0	74.0	74.3	74.0	74.5	74.1	74.3
Agriculture	2,316	2,333	2,289	2,345	2,343	2,297	2,298	2,323	2,280	2,253	2,255	2,181	2,208
Nonagricultural industries	56,316	56,450	56,536	56,622	56,694	56,867	56,887	56,964	57,344	57,154	57,627	57,409	57,588
Unemployed	3,422	3,323	3,258	3,118	3,174	3,135	3,063	3,154	3,071	3,089	2,909	3,072	2,870
Unemployment rate	5.5	5.4	5.2	5.0	5.1	5.0	4.9	5.1	4.9	4.9	4.6	4.9	4.6
Not in labor force	17,482	17,519	17,585	17,655	17,596	17,586	17,754	17,680	17,507	17,763	17,535	17,740	17,859
Women, 20 years and over													
Civilian noninstitutional population ¹	88,546	88,632	88,685	88,785	88,843	88,923	89,010	89,110	89,178	89,261	89,307	89,382	89,502
Civilian labor force	49,722	49,886	49,969	49,922	50,095	50,254	50,361	50,558	50,640	50,542	50,612	50,441	50,642
Percent of population	56.2	56.3	56.3	56.2	56.4	56.5	56.6	56.7	56.8	56.6	56.7	56.4	56.6
Employed	47,088	47,206	47,308	47,251	47,480	47,634	47,750	47,977	48,005	48,132	48,170	47,960	48,169
Employment-population ratio ²	53.2	53.3	53.3	53.2	53.4	53.6	53.6	53.8	53.8	53.9	53.9	53.7	53.8
Agriculture	619	620	609	600	636	636	643	646	654	656	692	587	616
Nonagricultural industries	46,469	46,586	46,699	46,651	46,844	46,998	47,107	47,331	47,351	47,476	47,478	47,373	47,553
Unemployed	2,634	2,680	2,661	2,671	2,615	2,620	2,611	2,581	2,635	2,411	2,442	2,481	2,473
Unemployment rate	5.3	5.4	5.3	5.4	5.2	5.2	5.2	5.1	5.2	4.8	4.8	4.9	4.9
Not in labor force	38,824	38,746	38,716	38,863	38,748	38,669	38,649	38,552	38,538	38,719	38,695	38,941	38,860
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,621	14,628	14,649	14,637	14,661	14,663	14,609	14,592	14,588	14,591	14,598	14,590	14,534
Civilian labor force	7,832	7,898	8,254	7,956	8,081	8,041	8,113	8,177	8,011	7,865	7,919	7,875	8,163
Percent of population	53.6	54.0	56.3	54.4	55.1	54.8	55.5	56.0	54.9	53.9	54.2	54.0	56.2
Employed	6,580	6,650	6,917	6,654	6,693	6,706	6,809	6,865	6,779	6,564	6,660	6,645	7,051
Employment-population ratio ²	45.0	45.5	47.2	45.5	45.7	45.7	46.6	47.0	46.5	45.0	45.6	45.5	48.5
Agriculture	257	259	245	239	270	239	274	323	293	295	280	267	260
Nonagricultural industries	6,323	6,391	6,672	6,415	6,423	6,467	6,535	6,542	6,486	6,269	6,380	6,378	6,791
Unemployed	1,252	1,248	1,337	1,302	1,388	1,335	1,304	1,312	1,232	1,301	1,259	1,230	1,112
Unemployment rate	16.0	15.8	16.2	16.4	17.2	16.6	16.1	16.0	15.4	16.5	15.9	15.6	13.6
Not in labor force	6,789	6,730	6,395	6,681	6,580	6,622	6,496	6,415	6,577	6,726	6,679	6,715	6,371

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	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
WHITE													
Civilian noninstitutional population ¹	156,930	157,058	157,134	157,242	157,342	157,449	157,552	157,676	157,773	157,868	157,943	158,034	158,166
Civilian labor force	103,150	103,248	103,516	103,357	103,669	103,731	103,907	104,252	104,530	104,171	104,574	104,209	104,691
Percent of population	65.7	65.7	65.9	65.7	65.9	65.9	66.0	66.1	66.3	66.0	66.2	65.9	66.2
Employed	97,698	97,917	98,181	98,069	98,317	98,492	98,779	99,044	99,474	99,274	99,751	99,297	99,932
Employment-population ratio ²	62.3	62.3	62.5	62.4	62.5	62.6	62.7	62.8	63.0	62.9	63.2	62.8	63.2
Unemployed	5,452	5,331	5,335	5,288	5,352	5,239	5,128	5,208	5,056	4,897	4,824	4,913	4,759
Unemployment rate	5.3	5.2	5.2	5.1	5.2	5.1	4.9	5.0	4.8	4.7	4.6	4.7	4.5
Men, 20 years and over													
Civilian labor force	54,227	54,198	54,183	54,213	54,375	54,381	54,368	54,455	54,650	54,522	54,699	54,618	54,662
Percent of population	78.4	78.3	78.2	78.2	78.4	78.3	78.2	78.3	78.5	78.2	78.5	78.3	78.2
Employed	51,591	51,670	51,715	51,803	51,864	51,969	52,046	52,053	52,389	52,245	52,538	52,314	52,491
Employment-population ratio ²	74.6	74.7	74.7	74.7	74.8	74.9	74.9	74.8	75.2	75.0	75.4	75.0	75.1
Unemployed	2,636	2,528	2,468	2,410	2,511	2,412	2,322	2,402	2,260	2,277	2,161	2,304	2,171
Unemployment rate	4.9	4.7	4.6	4.4	4.6	4.4	4.3	4.4	4.1	4.2	4.0	4.2	4.0
Women, 20 years and over													
Civilian labor force	42,137	42,241	42,332	42,308	42,379	42,464	42,569	42,710	42,915	42,841	42,986	42,827	42,921
Percent of population	55.6	55.7	55.8	55.7	55.7	55.8	55.9	56.1	56.3	56.2	56.3	56.1	56.2
Employed	40,265	40,343	40,449	40,409	40,538	40,606	40,712	40,896	40,985	41,183	41,297	41,104	41,183
Employment-population ratio ²	53.1	53.2	53.3	53.2	53.3	53.4	53.5	53.7	53.8	54.0	54.1	53.8	53.9
Unemployed	1,872	1,898	1,883	1,899	1,841	1,858	1,857	1,813	1,930	1,658	1,689	1,723	1,738
Unemployment rate	4.4	4.5	4.4	4.5	4.3	4.4	4.4	4.2	4.5	3.9	3.9	4.0	4.0
Both sexes, 16 to 19 years													
Civilian labor force	6,786	6,809	7,001	6,836	6,915	6,886	6,970	7,087	6,965	6,807	6,889	6,764	7,108
Percent of population	56.7	56.9	58.5	57.2	57.9	57.7	58.6	59.6	58.6	57.2	58.0	57.0	59.9
Employed	5,842	5,904	6,017	5,857	5,915	5,917	6,021	6,095	6,100	5,845	5,916	5,879	6,258
Employment-population ratio ²	48.8	49.3	50.3	49.0	49.5	49.6	50.6	51.2	51.3	49.1	49.8	49.5	52.7
Unemployed	944	905	984	979	1,000	969	949	992	865	962	973	885	850
Unemployment rate	13.9	13.3	14.1	14.3	14.5	14.1	13.6	14.0	12.4	14.1	14.1	13.1	12.0
Men	14.8	13.5	15.2	15.1	15.1	14.8	14.9	14.4	12.2	15.7	14.5	13.8	12.8
Women	13.0	13.1	12.9	13.4	13.8	13.3	12.3	13.6	12.7	12.4	13.7	12.4	11.1
BLACK													
Civilian noninstitutional population ¹	20,341	20,373	20,396	20,426	20,453	20,482	20,508	20,539	20,569	20,596	20,622	20,650	20,683
Civilian labor force	12,892	13,039	13,150	13,028	13,152	13,193	13,215	13,222	13,168	13,098	13,078	13,069	12,989
Percent of population	63.4	64.0	64.5	63.8	64.3	64.4	64.4	64.4	64.0	63.6	63.4	63.3	62.8
Employed	11,238	11,381	11,513	11,421	11,556	11,589	11,605	11,608	11,504	11,420	11,482	11,452	11,489
Employment-population ratio ²	55.2	55.9	56.4	55.9	56.5	56.6	56.6	56.5	55.9	55.4	55.7	55.5	55.5
Unemployed	1,654	1,658	1,637	1,607	1,596	1,604	1,610	1,614	1,663	1,678	1,597	1,617	1,500
Unemployment rate	12.8	12.7	12.4	12.3	12.1	12.2	12.2	12.2	12.6	12.8	12.2	12.4	11.5
Men, 20 years and over													
Civilian labor force	6,003	6,061	6,054	6,032	6,023	6,045	6,043	6,115	6,166	6,127	6,163	6,107	6,064
Percent of population	74.5	75.1	74.9	74.5	74.3	74.5	74.3	75.0	75.6	75.0	75.3	74.5	73.8
Employed	5,319	5,384	5,407	5,421	5,431	5,430	5,430	5,497	5,472	5,429	5,511	5,449	5,458
Employment-population ratio ²	66.0	66.7	66.9	67.0	67.0	66.9	66.8	67.5	67.1	66.4	67.3	66.5	66.5
Unemployed	684	677	647	611	592	615	613	618	694	699	652	658	606
Unemployment rate	11.4	11.2	10.7	10.1	9.8	10.2	10.1	10.1	11.3	11.4	10.6	10.8	10.0
Women, 20 years and over													
Civilian labor force	6,033	6,116	6,122	6,067	6,177	6,207	6,224	6,244	6,131	6,136	6,093	6,059	6,074
Percent of population	59.6	60.4	60.3	59.7	60.7	60.9	61.0	61.1	59.9	59.9	59.4	59.0	59.0
Employed	5,349	5,417	5,430	5,357	5,495	5,537	5,544	5,550	5,495	5,465	5,407	5,414	5,421
Employment-population ratio ²	52.9	53.5	53.5	52.7	54.0	54.3	54.3	54.3	53.7	53.3	52.7	52.7	52.7
Unemployed	684	699	692	710	682	670	680	694	636	671	686	645	652
Unemployment rate	11.3	11.4	11.3	11.7	11.0	10.8	10.9	11.1	10.4	10.9	11.3	10.6	10.7

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	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	856	862	974	929	952	941	948	863	870	834	822	903	852
Percent of population	39.5	39.8	44.9	42.8	43.8	43.3	43.7	39.8	40.0	38.3	37.7	41.4	39.0
Employed	570	580	676	643	630	622	631	561	537	526	564	589	610
Employment-population ratio ²	26.3	26.8	31.2	29.6	29.0	28.6	29.1	25.8	24.7	24.2	25.9	27.0	28.0
Unemployed	286	282	298	286	322	319	317	302	333	308	258	314	242
Unemployment rate	33.4	32.7	30.6	30.8	33.8	33.9	33.4	35.0	38.3	36.9	31.4	34.8	28.4
Men	31.4	32.4	33.7	31.5	32.5	32.2	33.5	35.1	42.0	39.0	27.6	33.3	30.4
Women	35.4	33.1	27.1	30.0	35.2	35.8	33.4	34.9	34.7	35.0	35.5	36.6	25.9
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	12,848	12,887	12,925	12,965	13,003	13,043	13,082	13,115	13,153	13,192	13,230	13,268	13,306
Civilian labor force	8,468	8,447	8,549	8,581	8,654	8,763	8,772	8,879	9,017	8,803	8,828	8,859	9,027
Percent of population	65.9	65.5	66.1	66.2	66.6	67.2	67.1	67.7	68.6	66.7	66.7	66.8	67.8
Employed	7,738	7,762	7,856	7,877	7,935	7,978	8,058	8,238	8,268	8,079	8,010	8,058	8,219
Employment-population ratio ²	60.2	60.2	60.8	60.8	61.0	61.2	61.6	62.8	62.9	61.2	60.5	60.7	61.8
Unemployed	730	685	693	704	719	785	714	642	749	724	818	801	809
Unemployment rate	8.6	8.1	8.1	8.2	8.3	9.0	8.1	7.2	8.3	8.2	9.3	9.0	9.0

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	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
CHARACTERISTIC													
Total	112,300	112,639	113,050	112,872	113,210	113,504	113,744	114,129	114,409	114,103	114,713	114,195	115,018
Married men, spouse present	40,120	40,262	40,308	40,404	40,556	40,645	40,711	40,404	40,475	40,481	40,459	40,267	40,485
Married women, spouse present	28,282	28,283	28,189	28,069	28,099	28,175	28,249	28,441	28,707	28,805	28,859	28,567	28,713
Women who maintain families	6,011	6,033	6,107	6,151	6,178	6,237	6,227	6,168	6,157	6,160	6,055	5,957	6,085
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,622	1,625	1,591	1,624	1,705	1,595	1,599	1,666	1,677	1,648	1,678	1,526	1,562
Self-employed workers	1,403	1,424	1,393	1,415	1,430	1,407	1,450	1,454	1,414	1,423	1,385	1,346	1,359
Unpaid family workers	162	153	155	139	140	155	156	138	114	142	155	159	167
Nonagricultural industries:													
Wage and salary workers	100,510	100,825	101,241	101,282	101,522	101,943	101,997	102,507	102,683	102,279	102,538	101,927	103,000
Government	16,920	16,876	16,794	16,928	17,033	17,118	17,064	17,197	16,948	16,908	17,015	16,887	17,064
Private industries	83,590	83,949	84,447	84,354	84,489	84,825	84,933	85,310	85,735	85,371	85,523	85,040	85,935
Private households	1,163	1,212	1,175	1,100	1,222	1,286	1,200	1,147	1,170	1,175	1,092	1,156	1,150
Other industries	82,427	82,737	83,272	83,254	83,267	83,539	83,733	84,163	84,565	84,196	84,431	83,884	84,786
Self-employed workers	8,293	8,216	8,214	8,204	8,274	8,222	8,280	8,150	8,312	8,366	8,637	8,917	8,577
Unpaid family workers	274	266	248	297	242	235	248	237	228	248	281	307	301
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,254	5,428	5,283	5,261	5,353	5,534	5,262	5,367	5,566	5,343	5,194	4,844	5,317
Slack work	2,345	2,429	2,468	2,213	2,377	2,408	2,284	2,396	2,478	2,520	2,236	2,227	2,364
Could only find part-time work	2,623	2,683	2,526	2,683	2,655	2,696	2,638	2,640	2,598	2,535	2,502	2,315	2,637
Voluntary part time	14,836	14,437	14,573	14,415	14,488	14,523	14,711	14,571	14,572	14,603	15,016	14,790	14,507
Nonagricultural industries:													
Part time for economic reasons	4,979	5,154	5,016	4,986	5,067	5,241	5,004	5,145	5,254	5,106	4,924	4,623	5,076
Slack work	2,176	2,261	2,265	2,034	2,196	2,209	2,111	2,260	2,327	2,325	2,121	2,120	2,199
Could only find part-time work	2,530	2,599	2,463	2,603	2,557	2,597	2,552	2,566	2,457	2,475	2,397	2,236	2,566
Voluntary part time	14,334	13,953	14,099	13,987	14,011	14,064	14,222	14,096	14,123	14,141	14,592	14,338	14,083

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	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over	112,300	112,639	113,050	112,872	113,210	113,504	113,744	114,129	114,409	114,103	114,713	114,195	115,018
16 to 24 years	20,069	20,184	20,475	20,116	20,096	20,065	20,112	20,312	20,271	19,916	19,990	19,773	20,404
16 to 19 years	6,580	6,650	6,917	6,654	6,693	6,706	6,809	6,865	6,779	6,564	6,660	6,645	7,051
16 to 17 years	2,694	2,760	2,849	2,754	2,768	2,734	2,826	2,776	2,752	2,657	2,682	2,649	2,820
18 to 19 years	3,871	3,875	3,996	3,911	3,936	3,985	3,994	4,061	4,045	3,906	3,967	3,995	4,227
20 to 24 years	13,489	13,534	13,558	13,462	13,403	13,359	13,303	13,447	13,491	13,353	13,330	13,128	13,353
25 years and over	92,234	92,551	92,606	92,735	93,071	93,424	93,625	93,778	94,118	94,239	94,686	94,359	94,592
25 to 54 years	77,226	78,015	78,202	78,307	78,477	78,731	78,916	79,170	79,351	79,588	79,946	79,920	80,088
55 years and over	14,537	14,497	14,498	14,491	14,641	14,663	14,716	14,581	14,673	14,566	14,712	14,438	14,542
Men, 16 years and over	61,984	62,150	62,341	62,368	62,468	62,581	62,656	62,808	63,059	62,759	63,323	63,030	63,411
16 to 24 years	10,366	10,441	10,586	10,448	10,403	10,370	10,369	10,456	10,444	10,349	10,427	10,351	10,591
16 to 19 years	3,352	3,367	3,516	3,401	3,431	3,417	3,471	3,521	3,434	3,352	3,440	3,439	3,614
16 to 17 years	1,373	1,417	1,410	1,391	1,409	1,390	1,451	1,444	1,406	1,376	1,397	1,369	1,418
18 to 19 years	1,960	1,938	2,046	2,021	2,034	2,040	2,035	2,053	2,046	1,982	2,042	2,068	2,184
20 to 24 years	7,014	7,074	7,070	7,047	6,972	6,953	6,898	6,935	7,010	6,998	6,987	6,912	6,977
25 years and over	51,601	51,733	51,781	51,900	52,047	52,210	52,299	52,338	52,623	52,469	52,862	52,654	52,793
25 to 54 years	43,071	43,203	43,289	43,408	43,488	43,592	43,690	43,848	43,992	43,975	44,336	44,175	44,278
55 years and over	8,561	8,524	8,503	8,514	8,580	8,605	8,629	8,470	8,567	8,467	8,530	8,466	8,542
Women, 16 years and over	50,316	50,489	50,709	50,504	50,742	50,923	51,088	51,321	51,350	51,344	51,390	51,166	51,607
16 to 24 years	9,703	9,743	9,889	9,668	9,693	9,695	9,743	9,857	9,826	9,567	9,563	9,422	9,814
16 to 19 years	3,228	3,283	3,401	3,253	3,262	3,289	3,338	3,344	3,345	3,212	3,220	3,206	3,438
16 to 17 years	1,321	1,343	1,439	1,363	1,359	1,344	1,375	1,332	1,346	1,281	1,285	1,280	1,402
18 to 19 years	1,911	1,937	1,950	1,890	1,902	1,945	1,959	2,008	1,999	1,924	1,925	1,927	2,043
20 to 24 years	6,475	6,460	6,488	6,415	6,431	6,406	6,405	6,513	6,481	6,355	6,343	6,216	6,376
25 years and over	40,633	40,818	40,825	40,835	41,024	41,214	41,326	41,440	41,495	41,770	41,824	41,705	41,798
25 to 54 years	34,655	34,812	34,913	34,899	34,989	35,139	35,226	35,322	35,359	35,613	35,610	35,745	35,809
55 years and over	5,976	5,973	5,995	5,977	6,061	6,058	6,087	6,111	6,106	6,099	6,182	5,972	5,999

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

(In thousands)

Sex and age	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over	7,308	7,251	7,256	7,091	7,177	7,090	6,978	7,046	6,938	6,801	6,610	6,783	6,455
16 to 24 years	2,756	2,701	2,736	2,692	2,689	2,641	2,547	2,659	2,525	2,637	2,532	2,519	2,341
16 to 19 years	1,252	1,248	1,337	1,302	1,388	1,335	1,304	1,312	1,232	1,301	1,259	1,230	1,112
16 to 17 years	623	586	638	618	710	649	613	638	580	568	580	509	512
18 to 19 years	657	624	688	701	679	691	688	689	655	732	658	720	627
20 to 24 years	1,504	1,453	1,399	1,390	1,301	1,306	1,243	1,347	1,293	1,336	1,273	1,289	1,229
25 years and over	4,502	4,538	4,544	4,445	4,482	4,442	4,412	4,393	4,416	4,161	4,082	4,251	4,077
25 to 54 years	4,042	4,078	4,050	3,931	3,993	3,909	3,939	3,896	3,926	3,730	3,625	3,744	3,654
55 years and over	475	462	483	499	474	513	488	527	499	441	446	520	442
Men, 16 years and over	4,080	3,960	4,021	3,827	3,899	3,845	3,785	3,847	3,707	3,816	3,553	3,736	3,495
16 to 24 years	1,474	1,415	1,518	1,435	1,432	1,414	1,378	1,456	1,333	1,423	1,315	1,354	1,247
16 to 19 years	658	637	763	709	725	710	722	693	636	727	644	664	625
16 to 17 years	325	292	363	341	372	356	347	348	285	313	291	275	290
18 to 19 years	357	307	387	382	354	355	367	360	354	414	352	388	360
20 to 24 years	816	778	755	726	707	704	656	763	697	696	671	690	622
25 years and over	2,585	2,535	2,528	2,427	2,462	2,419	2,390	2,391	2,390	2,385	2,243	2,363	2,235
25 to 54 years	2,271	2,238	2,215	2,139	2,182	2,109	2,112	2,070	2,095	2,089	1,951	2,051	1,940
55 years and over	301	300	302	283	277	313	282	351	305	299	276	323	279
Women, 16 years and over	3,228	3,291	3,235	3,264	3,278	3,245	3,193	3,200	3,231	2,985	3,057	3,047	2,960
16 to 24 years	1,282	1,286	1,218	1,257	1,257	1,227	1,169	1,203	1,192	1,214	1,217	1,166	1,094
16 to 19 years	594	611	574	593	663	625	582	619	596	574	615	566	487
16 to 17 years	298	294	275	277	338	293	266	290	295	255	289	234	222
18 to 19 years	300	317	301	319	325	336	321	329	301	318	306	332	267
20 to 24 years	688	675	644	664	594	602	587	584	596	640	602	600	607
25 years and over	1,917	2,003	2,016	2,018	2,020	2,023	2,022	2,002	2,026	1,776	1,838	1,888	1,842
25 to 54 years	1,771	1,840	1,835	1,792	1,811	1,800	1,827	1,826	1,831	1,641	1,674	1,693	1,714
55 years and over	174	162	181	216	197	200	206	175	194	142	170	197	163

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

(Civilian workers)

Sex and age	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over	6.1	6.0	6.0	5.9	6.0	5.9	5.8	5.8	5.7	5.6	5.4	5.6	5.3
16 to 24 years	12.1	11.8	11.8	11.8	11.8	11.6	11.2	11.6	11.1	11.7	11.2	11.3	10.3
16 to 19 years	16.0	15.8	16.2	16.4	17.2	16.6	16.1	16.0	15.4	16.5	15.9	15.6	13.6
16 to 17 years	18.8	17.5	18.3	18.3	20.4	19.2	17.8	18.7	17.4	17.6	17.8	16.1	15.4
18 to 19 years	14.5	13.9	14.7	15.2	14.7	14.8	14.7	14.5	13.9	15.8	14.2	15.3	12.9
20 to 24 years	10.0	9.7	9.4	9.4	8.8	8.9	8.5	9.1	8.7	9.1	8.7	8.9	8.4
25 years and over	4.7	4.7	4.7	4.6	4.6	4.5	4.5	4.5	4.5	4.2	4.1	4.3	4.1
25 to 54 years	4.9	5.0	4.9	4.8	4.8	4.7	4.8	4.7	4.7	4.5	4.3	4.5	4.4
55 years and over	3.2	3.1	3.2	3.3	3.1	3.4	3.2	3.5	3.3	2.9	2.9	3.5	2.9
Men, 16 years and over	6.2	6.0	6.1	5.8	5.9	5.8	5.7	5.8	5.6	5.7	5.3	5.6	5.2
16 to 24 years	12.4	11.9	12.5	12.1	12.1	12.0	11.7	12.2	11.3	12.1	11.2	11.6	10.5
16 to 19 years	16.4	15.9	17.8	17.3	17.4	17.2	17.2	16.4	15.6	17.8	15.8	16.2	14.7
16 to 17 years	19.1	17.1	20.5	19.7	20.9	20.4	19.3	19.4	16.9	18.5	17.2	16.7	17.0
18 to 19 years	15.4	13.7	15.9	15.9	14.8	14.8	15.3	14.9	14.7	17.3	14.7	15.8	14.2
20 to 24 years	10.4	9.9	9.6	9.3	9.2	9.2	8.7	9.9	9.0	9.1	8.8	9.1	8.2
25 years and over	4.8	4.7	4.7	4.5	4.5	4.4	4.4	4.4	4.3	4.3	4.1	4.3	4.1
25 to 54 years	5.0	4.9	4.9	4.7	4.8	4.6	4.6	4.5	4.5	4.5	4.2	4.4	4.2
55 years and over	3.4	3.4	3.4	3.2	3.1	3.5	3.2	4.0	3.4	3.4	3.1	3.7	3.2
Women, 16 years and over	6.0	6.1	6.0	6.1	6.1	6.0	5.9	5.9	5.9	5.5	5.6	5.6	5.4
16 to 24 years	11.7	11.7	11.0	11.5	11.5	11.2	10.7	10.9	10.8	11.3	11.3	11.0	10.0
16 to 19 years	15.5	15.7	14.4	15.4	16.9	16.0	14.8	15.6	15.1	15.2	16.0	15.0	12.4
16 to 17 years	18.4	18.0	16.0	16.9	19.9	17.9	16.2	17.9	18.0	16.6	18.4	15.5	13.7
18 to 19 years	13.6	14.1	13.4	14.4	14.6	14.7	14.1	14.1	13.1	14.2	13.7	14.7	11.6
20 to 24 years	9.6	9.5	9.0	9.4	8.5	8.6	8.4	8.2	8.4	9.1	8.7	8.8	8.7
25 years and over	4.5	4.7	4.7	4.7	4.7	4.7	4.7	4.6	4.7	4.1	4.2	4.3	4.2
25 to 54 years	4.9	5.0	5.0	4.9	4.9	4.9	4.9	4.9	4.9	4.4	4.5	4.5	4.6
55 years and over	2.8	2.6	2.9	3.5	3.1	3.2	3.3	2.8	3.1	2.3	2.7	3.2	2.6

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
CHARACTERISTIC													
Total (all civilian workers)	6.1	6.0	6.0	5.9	6.0	5.9	5.8	5.8	5.7	5.6	5.4	5.6	5.3
Men, 20 years and over	5.5	5.4	5.2	5.0	5.1	5.0	4.9	5.1	4.9	4.9	4.6	4.9	4.6
Women, 20 years and over	5.3	5.4	5.3	5.4	5.2	5.2	5.2	5.1	5.2	4.8	4.8	4.9	4.9
Both sexes, 16 to 19 years	16.0	15.8	16.2	16.4	17.2	16.6	16.1	16.0	15.4	16.5	15.9	15.6	13.6
White	5.3	5.2	5.2	5.1	5.2	5.1	4.9	5.0	4.8	4.7	4.6	4.7	4.5
Black and other	11.5	11.4	11.3	10.9	10.8	11.0	10.9	10.9	11.3	11.5	10.7	11.3	10.3
Black	12.8	12.7	12.4	12.3	12.1	12.2	12.2	12.2	12.6	12.8	12.2	12.4	11.5
Hispanic origin	8.6	8.1	8.1	8.2	8.3	9.0	8.1	7.2	8.3	8.2	9.3	9.0	9.0
Married men, spouse present	4.0	3.8	3.7	3.7	3.7	3.5	3.4	3.6	3.4	3.4	3.0	3.3	3.1
Married women, spouse present	4.0	4.2	4.3	4.2	4.2	4.2	4.3	4.2	4.1	4.0	3.8	3.9	3.7
Women who maintain families	9.5	9.3	9.0	8.8	8.9	8.5	8.4	8.9	8.3	7.5	8.7	8.4	7.8
Full-time workers	5.9	5.7	5.6	5.5	5.6	5.5	5.4	5.4	5.3	5.3	5.1	5.2	4.9
Part-time workers	7.3	8.1	8.2	8.4	8.3	8.2	8.0	8.3	7.9	7.7	7.4	7.7	7.8
Unemployed 15 weeks and over ¹	1.7	1.6	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.4	1.3	1.3	1.2
Labor force time lost ²	7.1	6.9	6.9	6.8	6.8	6.8	6.6	6.6	6.6	6.5	6.2	6.4	6.3
INDUSTRY													
Nonagricultural private wage and salary workers	6.1	6.1	6.0	5.9	5.9	5.8	5.7	5.8	5.7	5.6	5.3	5.7	5.4
Goods-producing industries	7.1	7.1	6.9	7.0	7.0	6.5	6.4	7.1	6.9	6.5	6.5	6.6	6.0
Mining	9.5	7.9	8.6	7.4	8.3	7.0	8.0	7.7	7.8	7.9	8.4	10.4	6.7
Construction	11.7	10.8	11.3	11.9	11.2	10.6	10.6	12.2	11.0	10.7	10.6	10.5	10.2
Manufacturing	5.7	6.0	5.6	5.6	5.7	5.3	5.1	5.6	5.6	5.2	5.3	5.4	4.8
Durable goods	5.4	6.0	5.5	5.4	5.2	4.8	4.8	5.5	5.9	5.2	4.8	4.9	4.4
Nondurable goods	6.1	5.9	5.8	5.9	6.5	5.9	5.6	5.8	5.3	5.3	6.0	6.0	5.4
Service-producing industries	5.7	5.6	5.6	5.3	5.4	5.5	5.3	5.3	5.1	5.2	4.7	5.2	5.1
Transportation and public utilities	4.8	4.4	4.4	4.1	4.4	4.5	4.6	3.6	3.6	4.2	3.8	4.4	4.1
Wholesale and retail trade	7.1	6.8	7.0	6.4	6.5	6.8	6.2	6.1	6.4	6.8	5.9	6.3	5.9
Finance and service industries	4.9	5.1	4.7	4.8	4.7	4.8	4.8	4.9	4.5	4.2	4.1	4.6	4.6
Government workers	3.4	3.4	3.7	3.4	3.3	3.4	3.2	3.0	2.8	2.8	3.0	2.9	2.8
Agricultural wage and salary workers	9.3	10.9	10.6	8.6	10.6	11.1	10.9	11.5	10.2	11.0	10.6	13.9	9.7

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	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
DURATION													
Less than 5 weeks	3,138	3,186	3,203	3,220	3,223	3,218	3,229	3,089	3,084	3,009	3,125	3,075	3,066
5 to 14 weeks	2,151	2,144	2,142	1,949	2,093	2,029	1,968	2,263	2,145	2,101	1,956	2,110	1,890
15 weeks and over	2,029	1,920	1,896	1,904	1,801	1,834	1,791	1,733	1,740	1,722	1,540	1,609	1,512
15 to 26 weeks	973	945	834	917	844	899	892	839	841	887	725	784	727
27 weeks and over	1,056	975	1,062	987	957	935	899	894	899	835	816	825	785
Average (mean) duration, in weeks	14.7	14.2	14.3	14.2	14.1	14.0	14.2	14.4	14.4	13.7	13.4	13.8	12.9
Median duration, in weeks	6.6	6.6	6.4	5.8	6.2	6.1	6.0	6.4	6.4	6.6	5.6	5.9	6.0
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	42.9	43.9	44.2	45.5	45.3	45.4	46.2	43.6	44.3	44.0	47.2	45.3	47.4
5 to 14 weeks	29.4	29.6	29.6	27.6	29.4	28.7	28.2	31.9	30.8	30.8	29.5	31.1	29.2
15 weeks and over	27.7	26.5	26.2	26.9	25.3	25.9	25.6	24.5	25.0	25.2	23.3	23.7	23.4
15 to 26 weeks	13.3	13.0	11.5	13.0	11.9	12.7	12.8	11.8	12.1	13.0	10.9	11.5	11.2
27 weeks and over	14.4	13.4	14.7	14.0	13.4	13.2	12.9	12.6	12.9	12.2	12.3	12.1	12.1

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

(Numbers in thousands)

Reasons for unemployment	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
NUMBER OF UNEMPLOYED													
Job losers	3,554	3,529	3,389	3,313	3,388	3,307	3,200	3,209	3,207	3,139	2,916	3,236	3,059
On layoff	919	916	874	820	944	878	856	888	884	899	821	793	863
Other job losers	2,635	2,613	2,515	2,493	2,444	2,429	2,344	2,320	2,323	2,240	2,095	2,443	2,196
Job leavers	959	989	992	981	960	926	946	1,062	961	1,075	993	926	944
Reentrants	1,980	1,930	1,969	1,908	1,845	1,974	1,945	1,917	1,951	1,756	1,784	1,789	1,723
New entrants	854	844	855	882	914	855	909	885	864	887	915	807	777
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	48.4	48.4	47.0	46.8	47.7	46.8	45.7	45.2	45.9	45.8	44.1	47.9	47.0
On layoff	12.5	12.6	12.1	11.6	13.3	12.4	12.2	12.5	12.7	13.1	12.4	11.7	13.3
Other job losers	35.9	35.8	34.9	35.2	34.4	34.4	33.5	32.7	33.3	32.7	31.7	36.2	33.8
Job leavers	13.1	13.6	13.8	13.8	13.5	13.1	13.5	15.3	13.8	15.7	15.0	13.7	14.5
Reentrants	26.9	26.5	27.3	26.9	26.0	28.0	27.8	27.0	27.9	25.6	27.0	26.5	26.5
New entrants	11.6	11.6	11.9	12.5	12.9	12.1	13.0	12.5	12.4	12.9	13.8	11.9	11.9
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.0	2.9	2.8	2.8	2.8	2.7	2.7	2.6	2.6	2.6	2.4	2.7	2.5
Job leavers .....	.8	.8	.8	.8	.8	.8	.8	.9	.8	.9	.8	.8	.8
Reentrants	1.7	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.4
New entrants .....	.7	.7	.7	.7	.8	.7	.8	.7	.7	.7	.8	.7	.6

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-42. 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	1985			1986				1987				1988	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
TOTAL													
Noninstitutional population ¹	179,649	180,135	180,641	181,517	182,008	182,530	183,115	183,743	184,253	184,749	185,216	185,707	186,099
Labor force ¹	116,893	117,214	117,887	118,653	119,330	119,898	120,307	120,893	121,352	121,786	122,316	122,882	122,968
Percent of population ²	65.1	65.1	65.3	65.4	65.6	65.7	65.7	65.8	65.9	65.9	66.0	66.2	66.1
Total employed ¹	108,522	108,910	109,684	110,452	110,910	111,668	112,186	113,012	113,873	114,587	115,235	115,954	116,352
Employment-population ratio ³	60.4	60.5	60.7	60.8	60.9	61.2	61.3	61.5	61.8	62.0	62.2	62.4	62.5
Resident Armed Forces	1,703	1,721	1,700	1,692	1,687	1,695	1,750	1,741	1,726	1,733	1,749	1,740	1,710
Civilian employed	106,819	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486	114,214	114,642
Agriculture	3,235	3,111	3,093	3,206	3,148	3,132	3,176	3,212	3,237	3,180	3,212	3,241	3,116
Nonagricultural industries	103,584	104,078	104,891	105,555	106,075	106,841	107,260	108,059	108,910	109,674	110,274	110,972	111,526
Unemployed	8,371	8,304	8,203	8,201	8,419	8,230	8,121	7,880	7,479	7,199	7,082	6,928	6,616
Unemployment rate ⁴	7.2	7.1	7.0	6.9	7.1	6.9	6.8	6.5	6.2	5.9	5.8	5.6	5.4
Not in labor force	62,756	62,920	62,754	62,863	62,679	62,632	62,808	62,851	62,901	62,963	62,899	62,825	63,131
Men													
Noninstitutional population ¹	85,899	86,133	86,376	86,957	87,201	87,463	87,775	88,101	88,358	88,605	88,843	89,100	89,293
Labor force ¹	65,905	66,036	66,217	66,670	66,873	67,055	67,319	67,616	67,676	67,795	67,999	68,245	68,397
Percent of population ²	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.6	76.5	76.5	76.6	76.6
Total employed ¹	61,368	61,526	61,735	62,222	62,271	62,492	62,790	63,232	63,492	63,859	64,156	64,455	64,803
Employment-population ratio ³	71.4	71.4	71.5	71.6	71.4	71.4	71.5	71.8	71.9	72.1	72.2	72.3	72.6
Resident Armed Forces	1,554	1,569	1,551	1,539	1,533	1,540	1,592	1,583	1,567	1,572	1,587	1,579	1,548
Civilian employed	59,814	59,957	60,185	60,682	60,738	60,952	61,198	61,649	61,925	62,286	62,568	62,875	63,254
Unemployed	4,537	4,510	4,482	4,449	4,603	4,563	4,530	4,383	4,184	3,936	3,843	3,790	3,595
Unemployment rate ⁴	6.9	6.8	6.8	6.7	6.9	6.8	6.7	6.5	6.2	5.8	5.7	5.6	5.3
Not in labor force	19,994	20,097	20,158	20,287	20,328	20,408	20,455	20,486	20,681	20,811	20,845	20,856	20,896
Women													
Noninstitutional population ¹	93,751	94,000	94,265	94,560	94,807	95,067	95,341	95,642	95,896	96,144	96,372	96,608	96,806
Labor force ¹	50,988	51,178	51,669	51,983	52,456	52,844	52,988	53,277	53,676	53,991	54,318	54,638	54,571
Percent of population ²	54.4	54.4	54.8	55.0	55.3	55.6	55.6	55.7	56.0	56.2	56.4	56.6	56.4
Total employed ¹	47,154	47,384	47,948	48,230	48,640	49,176	49,396	49,780	50,381	50,728	51,079	51,499	51,549
Employment-population ratio ³	50.3	50.4	50.9	51.0	51.3	51.7	51.8	52.0	52.5	52.8	53.0	53.3	53.3
Resident Armed Forces	149	151	149	152	154	155	158	158	160	161	161	161	162
Civilian employed	47,004	47,233	47,799	48,078	48,485	49,021	49,238	49,622	50,221	50,567	50,918	51,338	51,387
Unemployed	3,835	3,794	3,721	3,753	3,817	3,668	3,591	3,497	3,295	3,263	3,239	3,138	3,021
Unemployment rate ⁴	7.5	7.4	7.2	7.2	7.3	6.9	6.8	6.6	6.1	6.0	6.0	5.7	5.5
Not in labor force	42,763	42,822	42,596	42,577	42,351	42,224	42,354	42,365	42,220	42,152	42,055	41,970	42,235

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-42 through A-53 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-43. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted

(Numbers in thousands)

Employment status, sex, and age	1985			1986				1987				1988	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
TOTAL													
Civilian noninstitutional population ¹	177,946	178,414	178,941	179,825	180,321	180,835	181,365	182,002	182,527	183,016	183,467	183,967	184,389
Civilian labor force	115,190	115,494	116,187	116,962	117,642	118,203	118,557	119,151	119,626	120,053	120,568	121,142	121,258
Percent of population	64.7	64.7	64.9	65.0	65.2	65.4	65.4	65.5	65.5	65.6	65.7	65.8	65.8
Employed	106,819	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486	114,214	114,642
Employment-population ratio ²	60.0	60.1	60.3	60.5	60.6	60.8	60.9	61.1	61.4	61.7	61.9	62.1	62.2
Unemployed	8,371	8,304	8,203	8,201	8,419	8,230	8,121	7,880	7,479	7,199	7,082	6,928	6,616
Unemployment rate	7.3	7.2	7.1	7.0	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5
Men, 20 years and over													
Civilian noninstitutional population ¹	77,064	77,313	77,571	78,169	78,393	78,647	78,883	79,217	79,466	79,678	79,898	80,194	80,418
Civilian labor force	60,190	60,347	60,586	61,109	61,183	61,369	61,657	61,925	62,051	62,091	62,253	62,544	62,707
Percent of population	78.1	78.1	78.1	78.2	78.0	78.0	78.2	78.2	78.1	77.9	77.9	78.0	78.0
Employed	56,428	56,658	56,936	57,420	57,399	57,599	57,873	58,308	58,607	58,858	59,129	59,440	59,757
Employment-population ratio ²	73.2	73.3	73.4	73.5	73.2	73.2	73.4	73.6	73.8	73.9	74.0	74.1	74.3
Agriculture	2,300	2,230	2,236	2,332	2,282	2,259	2,308	2,322	2,359	2,322	2,313	2,286	2,215
Nonagricultural industries	54,128	54,428	54,700	55,088	55,117	55,340	55,566	55,986	56,248	56,536	56,816	57,154	57,542
Unemployed	3,762	3,689	3,650	3,688	3,784	3,771	3,784	3,617	3,444	3,233	3,124	3,105	2,950
Unemployment rate	6.2	6.1	6.0	6.0	6.2	6.1	6.1	5.8	5.6	5.2	5.0	5.0	4.7
Not in labor force	16,874	16,966	16,985	17,060	17,210	17,278	17,226	17,292	17,415	17,587	17,645	17,650	17,711
Women, 20 years and over													
Civilian noninstitutional population ¹	86,377	86,651	86,900	87,187	87,449	87,699	87,935	88,236	88,468	88,701	88,925	89,183	89,397
Civilian labor force	47,137	47,290	47,736	48,000	48,448	48,893	49,005	49,308	49,648	49,926	50,237	50,580	50,565
Percent of population	54.6	54.6	54.9	55.1	55.4	55.8	55.7	55.9	56.1	56.3	56.5	56.7	56.6
Employed	43,956	44,139	44,686	44,931	45,331	45,886	46,070	46,452	46,959	47,255	47,621	48,038	48,100
Employment-population ratio ²	50.9	50.9	51.4	51.5	51.8	52.3	52.4	52.6	53.1	53.3	53.6	53.9	53.8
Agriculture	611	582	590	620	595	620	622	620	617	610	638	652	632
Nonagricultural industries	43,345	43,557	44,096	44,311	44,736	45,266	45,448	45,832	46,342	46,645	46,983	47,386	47,468
Unemployed	3,181	3,152	3,050	3,070	3,117	3,007	2,935	2,856	2,689	2,671	2,615	2,542	2,465
Unemployment rate	6.7	6.7	6.4	6.4	6.4	6.2	6.0	5.8	5.4	5.3	5.2	5.0	4.9
Not in labor force	39,240	39,361	39,164	39,187	39,001	38,806	38,930	38,928	38,820	38,775	38,688	38,603	38,832
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,506	14,450	14,470	14,469	14,479	14,489	14,547	14,548	14,593	14,638	14,644	14,590	14,574
Civilian labor force	7,863	7,856	7,865	7,853	8,012	7,941	7,895	7,919	7,927	8,036	8,078	8,018	7,986
Percent of population	54.2	54.4	54.4	54.3	55.3	54.8	54.3	54.4	54.3	54.9	55.2	55.0	54.8
Employed	6,435	6,393	6,362	6,409	6,493	6,488	6,492	6,511	6,581	6,740	6,736	6,736	6,786
Employment-population ratio ²	44.4	44.2	44.0	44.3	44.8	44.8	44.6	44.8	45.1	46.0	46.0	46.2	46.6
Agriculture	324	299	267	254	271	253	246	270	261	248	261	304	269
Nonagricultural industries	6,111	6,094	6,095	6,156	6,222	6,235	6,246	6,241	6,320	6,493	6,475	6,432	6,516
Unemployed	1,428	1,463	1,503	1,443	1,519	1,453	1,402	1,408	1,346	1,296	1,342	1,282	1,200
Unemployment rate	18.2	18.6	19.1	18.4	19.0	18.3	17.8	17.8	17.0	16.1	16.6	16.0	15.0
Not in labor force	6,643	6,594	6,605	6,616	6,467	6,548	6,652	6,629	6,666	6,602	6,566	6,572	6,588

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
QUARTERLY AVERAGES**

A-44. 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	1985			1986				1987				1988	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
WHITE													
Civilian noninstitutional population ¹	153,491	153,825	154,204	154,893	155,245	155,609	155,982	156,435	156,806	157,145	157,448	157,772	158,048
Civilian labor force	99,688	99,911	100,538	101,100	101,580	102,125	102,425	102,777	103,179	103,374	103,769	104,317	104,491
Percent of population	64.9	65.0	65.2	65.3	65.4	65.6	65.7	65.7	65.8	65.8	65.9	66.1	66.1
Employed	93,399	93,701	94,491	94,977	95,314	96,005	96,350	96,941	97,622	98,056	98,529	99,264	99,660
Employment-population ratio ²	60.8	60.9	61.3	61.3	61.4	61.7	61.8	62.0	62.3	62.4	62.6	62.9	63.1
Unemployed	6,289	6,210	6,047	6,123	6,266	6,120	6,075	5,835	5,558	5,318	5,240	5,053	4,832
Unemployment rate	6.3	6.2	6.0	6.1	6.2	6.0	5.9	5.7	5.4	5.1	5.0	4.8	4.6
Men, 20 years and over													
Civilian labor force	52,844	52,952	53,136	53,509	53,554	53,699	53,970	54,111	54,196	54,198	54,375	54,542	54,660
Percent of population	78.5	78.5	78.5	78.5	78.4	78.4	78.6	78.5	78.4	78.3	78.3	78.3	78.3
Employed	49,947	50,099	50,390	50,705	50,660	50,843	51,074	51,344	51,559	51,729	51,960	52,229	52,448
Employment-population ratio ²	74.2	74.3	74.5	74.4	74.2	74.2	74.4	74.5	74.6	74.7	74.8	75.0	75.2
Unemployed	2,898	2,853	2,746	2,805	2,894	2,856	2,896	2,766	2,637	2,469	2,415	2,313	2,212
Unemployment rate	5.5	5.4	5.2	5.2	5.4	5.3	5.4	5.1	4.9	4.6	4.4	4.2	4.0
Women, 20 years and over													
Civilian labor force	40,035	40,186	40,580	40,783	41,128	41,560	41,574	41,778	42,101	42,294	42,471	42,822	42,911
Percent of population	53.9	53.9	54.3	54.5	54.8	55.2	55.1	55.3	55.6	55.7	55.8	56.2	56.2
Employed	37,704	37,889	38,375	38,505	38,863	39,367	39,458	39,753	40,188	40,400	40,619	41,022	41,195
Employment-population ratio ²	50.7	50.9	51.4	51.4	51.8	52.3	52.3	52.6	53.0	53.2	53.4	53.8	53.9
Unemployed	2,331	2,297	2,206	2,278	2,265	2,193	2,115	2,025	1,913	1,893	1,852	1,801	1,717
Unemployment rate	5.8	5.7	5.4	5.6	5.5	5.3	5.1	4.8	4.5	4.5	4.4	4.2	4.0
Both sexes, 16 to 19 years													
Civilian labor force	6,809	6,773	6,822	6,808	6,899	6,865	6,881	6,888	6,882	6,882	6,924	6,953	6,920
Percent of population	57.2	57.1	57.5	57.4	58.1	57.8	57.8	57.8	57.6	57.5	58.1	58.5	58.3
Employed	5,749	5,713	5,727	5,767	5,791	5,795	5,817	5,844	5,874	5,926	5,951	6,013	6,018
Employment-population ratio ²	48.3	48.2	48.3	48.6	48.8	48.8	48.9	49.0	49.1	49.6	49.9	50.6	50.7
Unemployed	1,060	1,060	1,095	1,040	1,107	1,071	1,064	1,044	1,008	956	973	940	903
Unemployment rate	15.6	15.6	16.1	15.3	16.1	15.6	15.5	15.2	14.6	13.9	14.0	13.5	13.0
Men	16.0	16.8	17.1	15.7	17.0	16.4	16.0	16.3	16.0	14.6	14.9	14.1	13.7
Women	15.0	14.4	14.9	14.8	15.1	14.8	14.9	13.9	13.2	13.1	13.1	12.9	12.4
BLACK													
Civilian noninstitutional population ¹	19,620	19,701	19,790	19,863	19,945	20,028	20,120	20,218	20,310	20,398	20,481	20,568	20,651
Civilian labor force	12,328	12,363	12,477	12,569	12,734	12,597	12,719	12,851	12,853	13,072	13,187	13,162	13,045
Percent of population	62.8	62.8	63.0	63.3	63.8	62.9	63.2	63.6	63.3	64.1	64.4	64.0	63.2
Employed	10,487	10,529	10,588	10,733	10,846	10,759	10,918	11,051	11,160	11,438	11,583	11,511	11,474
Employment-population ratio ²	53.4	53.4	53.5	54.0	54.4	53.7	54.3	54.7	54.9	56.1	56.6	56.0	55.6
Unemployed	1,842	1,834	1,889	1,836	1,888	1,838	1,800	1,800	1,693	1,634	1,603	1,652	1,571
Unemployment rate	14.9	14.8	15.1	14.6	14.8	14.6	14.2	14.0	13.2	12.5	12.2	12.5	12.0
Men, 20 years and over													
Civilian labor force	5,718	5,760	5,802	5,883	5,928	5,901	5,949	5,993	6,007	6,049	6,037	6,136	6,111
Percent of population	74.2	74.3	74.5	75.0	75.2	74.5	74.7	74.8	74.7	74.8	74.4	75.2	74.6
Employed	4,970	5,032	5,025	5,122	5,162	5,122	5,195	5,281	5,312	5,404	5,430	5,466	5,473
Employment-population ratio ²	64.5	64.9	64.5	65.3	65.4	64.6	65.2	65.9	66.0	66.9	66.9	67.0	66.8
Unemployed	748	728	778	761	766	779	754	712	694	645	607	670	639
Unemployment rate	13.1	12.6	13.4	12.9	12.9	13.2	12.7	11.9	11.6	10.7	10.0	10.9	10.5
Women, 20 years and over													
Civilian labor force	5,731	5,712	5,778	5,779	5,875	5,849	5,917	5,989	5,988	6,102	6,203	6,170	6,075
Percent of population	58.8	58.3	58.7	58.5	59.2	58.7	59.1	59.5	59.3	60.1	60.9	60.3	59.1
Employed	4,979	4,957	5,038	5,074	5,126	5,130	5,179	5,232	5,298	5,401	5,525	5,503	5,414
Employment-population ratio ²	51.1	50.6	51.2	51.4	51.7	51.5	51.7	52.0	52.4	53.2	54.2	53.8	52.7
Unemployed	752	755	740	705	749	719	738	757	689	700	677	667	661
Unemployment rate	13.1	13.2	12.8	12.2	12.7	12.3	12.5	12.6	11.5	11.5	10.9	10.8	10.9

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-44. 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	1985			1986				1987				1988	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	879	891	896	908	931	846	853	869	859	922	947	856	859
Percent of population	40.7	41.4	41.7	42.5	43.6	39.6	39.8	40.4	39.7	42.5	43.6	39.4	39.4
Employed	538	540	525	537	557	507	544	538	550	633	628	541	588
Employment-population ratio ²	24.9	25.1	24.4	25.1	26.1	23.7	25.4	25.1	25.4	29.2	28.9	24.9	27.0
Unemployed	341	352	372	371	373	339	308	331	309	289	319	314	271
Unemployment rate	38.8	39.5	41.5	40.8	40.1	40.1	36.2	38.1	36.0	31.3	33.7	36.7	31.6
Men	39.4	40.4	42.7	40.9	39.6	40.2	36.7	36.9	35.9	32.6	32.7	38.6	30.6
Women	38.2	38.3	40.1	40.7	40.7	40.0	35.6	39.3	36.1	30.0	34.8	34.8	32.8
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	11,862	11,969	12,075	12,184	12,290	12,397	12,504	12,692	12,809	12,926	13,043	13,153	13,268
Civilian labor force	7,617	7,806	7,809	7,862	8,010	8,171	8,256	8,402	8,495	8,526	8,730	8,900	8,905
Percent of population	64.2	65.2	64.7	64.5	65.2	65.9	66.0	66.2	66.3	66.0	66.9	67.7	67.1
Employed	6,808	6,976	6,973	7,015	7,150	7,280	7,425	7,593	7,740	7,832	7,990	8,195	8,096
Employment-population ratio ²	57.4	58.3	57.7	57.6	58.2	58.7	59.4	59.8	60.4	60.6	61.3	62.3	61.0
Unemployed	809	830	836	847	860	891	831	809	755	694	739	705	809
Unemployment rate	10.6	10.6	10.7	10.8	10.7	10.9	10.1	9.6	8.9	8.1	8.5	7.9	9.1

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.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-45. Employed and unemployed full- and part-time workers by sex, and age, seasonally adjusted

(In thousands)

Full- and part- time status, sex, and age	1985			1986				1987				1988	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
EMPLOYED													
Full-time workers	88,462	88,406	89,252	89,807	90,133	90,870	91,279	92,039	92,561	93,298	93,903	94,565	95,055
Men, 16 years and over	53,860	53,868	54,163	54,528	54,521	54,758	54,945	55,356	55,552	55,927	56,159	56,414	56,866
Men, 20 years and over	52,334	52,478	52,765	53,177	53,100	53,392	53,608	54,026	54,239	54,507	54,752	55,040	55,379
Women, 16 years and over	34,601	34,539	35,102	35,253	35,628	36,119	36,367	36,625	37,035	37,432	37,742	38,031	38,256
Women, 20 years and over	33,544	33,469	34,038	34,236	34,552	35,090	35,351	35,587	35,989	36,288	36,605	36,948	37,184
Both sexes, 16 to 19 years	2,584	2,460	2,449	2,395	2,481	2,388	2,320	2,427	2,333	2,503	2,546	2,577	2,492
Part-time workers	18,339	18,729	18,782	18,994	19,048	19,021	19,208	19,280	19,536	19,439	19,678	19,705	19,478
Men, 16 years and over	5,951	6,078	6,054	6,151	6,205	6,176	6,295	6,275	6,360	6,350	6,454	6,424	6,366
Men, 20 years and over	4,081	4,159	4,198	4,245	4,278	4,183	4,297	4,286	4,347	4,337	4,410	4,407	4,357
Women, 16 years and over	12,370	12,672	12,741	12,824	12,832	12,871	12,925	12,981	13,173	13,109	13,237	13,256	13,108
Women, 20 years and over	10,392	10,644	10,673	10,710	10,767	10,754	10,749	10,882	10,971	10,912	11,050	11,086	10,902
Both sexes, 16 to 19 years	3,865	3,925	3,911	4,039	4,003	4,084	4,163	4,111	4,219	4,190	4,218	4,212	4,219
UNEMPLOYED													
Looking for full-time work	6,792	6,802	6,714	6,711	6,844	6,679	6,619	6,373	6,045	5,767	5,670	5,550	5,277
Men, 16 years and over	3,936	3,933	3,885	3,861	3,987	3,913	3,899	3,769	3,609	3,399	3,302	3,152	3,086
Men, 20 years and over	3,502	3,459	3,426	3,472	3,527	3,514	3,533	3,373	3,215	3,015	2,930	2,881	2,734
Women, 16 years and over	2,882	2,880	2,824	2,831	2,875	2,764	2,701	2,590	2,455	2,393	2,393	2,315	2,215
Women, 20 years and over	2,561	2,555	2,486	2,495	2,541	2,440	2,400	2,297	2,179	2,133	2,100	2,035	1,973
Both sexes, 16 to 19 years	728	788	802	744	776	725	686	703	652	619	639	634	570
Looking for part-time work	1,563	1,507	1,497	1,497	1,555	1,557	1,513	1,519	1,419	1,424	1,417	1,391	1,328
Men, 16 years and over	623	579	597	573	629	637	617	613	590	563	554	571	529
Men, 20 years and over	254	232	226	221	249	252	254	252	222	214	197	231	210
Women, 16 years and over	939	918	906	926	925	902	907	910	833	851	871	823	807
Women, 20 years and over	609	595	577	574	562	574	551	558	499	531	528	508	484
Both sexes, 16 to 19 years	700	680	694	702	745	732	708	709	698	679	692	652	634

NOTE: 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; unemployed persons are classified according to whether they are seeking full- or part-time jobs.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-46. Employed civilians by selected social and economic categories, seasonally adjusted

(In thousands)

Category	1985				1986				1987				1988	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	
CHARACTERISTIC														
Total	106,819	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486	114,214	114,642	
Married men, spouse present	39,190	39,149	39,278	39,424	39,605	39,704	39,899	40,020	40,072	40,325	40,637	40,453	40,404	
Married women, spouse present	26,053	26,350	26,784	26,818	26,973	27,336	27,450	27,839	28,242	28,180	28,174	28,651	28,713	
Women who maintain families	5,662	5,605	5,560	5,726	5,780	5,862	5,977	5,943	5,982	6,097	6,214	6,161	6,032	
MAJOR INDUSTRY AND CLASS OF WORKER														
Agriculture:														
Wage and salary workers	1,576	1,492	1,520	1,587	1,508	1,524	1,594	1,655	1,631	1,613	1,633	1,664	1,589	
Self-employed workers	1,471	1,448	1,411	1,460	1,475	1,433	1,420	1,416	1,440	1,411	1,429	1,430	1,363	
Unpaid family workers	187	175	165	169	167	168	170	142	166	149	150	131	160	
Nonagricultural industries:														
Wage and salary workers	95,493	95,964	96,747	97,666	98,042	98,523	98,964	99,731	100,417	101,116	101,821	102,489	102,488	
Government	15,972	16,026	16,169	16,249	16,312	16,434	16,371	16,546	16,715	16,866	17,072	17,017	16,989	
Private industries	79,521	79,937	80,579	81,417	81,730	82,088	82,594	83,184	83,701	84,250	84,749	85,472	85,500	
Private households	1,215	1,271	1,220	1,221	1,269	1,245	1,206	1,228	1,212	1,162	1,236	1,164	1,133	
Other industries	78,306	78,666	79,358	80,196	80,461	80,844	81,387	81,956	82,489	83,088	83,513	84,308	84,367	
Self-employed workers	7,752	7,791	7,921	7,691	7,754	7,985	8,076	8,128	8,196	8,211	8,259	8,276	8,710	
Unpaid family workers	297	277	255	257	241	265	256	256	273	270	242	237	296	
PERSONS AT WORK PART TIME¹														
All industries:														
Part time for economic reasons	5,682	5,628	5,469	5,509	5,783	5,479	5,601	5,578	5,327	5,324	5,383	5,425	5,118	
Slack work	2,566	2,436	2,294	2,356	2,565	2,440	2,469	2,469	2,327	2,370	2,356	2,464	2,276	
Could only find part-time work	2,780	2,830	2,877	2,830	2,872	2,722	2,796	2,734	2,675	2,631	2,663	2,591	2,485	
Voluntary part time	13,250	13,568	13,678	13,833	13,909	13,952	14,058	14,153	14,425	14,475	14,574	14,582	14,771	
Nonagricultural industries:														
Part time for economic reasons	5,392	5,365	5,250	5,272	5,515	5,258	5,344	5,283	5,047	5,052	5,104	5,168	4,874	
Slack work	2,383	2,280	2,167	2,203	2,426	2,289	2,310	2,276	2,155	2,187	2,172	2,304	2,147	
Could only find part-time work	2,704	2,732	2,777	2,749	2,776	2,661	2,699	2,642	2,594	2,555	2,569	2,499	2,399	
Voluntary part time	12,831	13,108	13,224	13,372	13,506	13,536	13,605	13,686	13,958	14,013	14,099	14,120	14,338	

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
QUARTERLY AVERAGES**

A-47. Employed civilians by sex and age, seasonally adjusted

(In thousands)

Sex and age	1985			1986				1987				1988	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over	106,819	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486	114,214	114,642
16 to 24 years	20,435	20,319	20,305	20,371	20,276	20,224	20,182	20,193	20,129	20,258	20,091	20,166	20,056
16 to 19 years	6,435	6,393	6,362	6,409	6,493	6,488	6,492	6,511	6,581	6,740	6,736	6,736	6,786
16 to 17 years	2,472	2,484	2,482	2,551	2,638	2,612	2,691	2,696	2,684	2,788	2,776	2,728	2,717
18 to 19 years	3,959	3,896	3,892	3,886	3,850	3,846	3,819	3,828	3,891	3,927	3,972	4,004	4,063
20 to 24 years	14,000	13,926	13,943	13,961	13,783	13,736	13,689	13,683	13,548	13,518	13,355	13,430	13,270
25 years and over	86,364	86,882	87,670	88,411	88,927	89,768	90,237	91,091	91,999	92,631	93,373	94,045	94,545
25 to 54 years	72,075	72,672	73,385	74,146	74,549	75,398	75,949	76,645	77,547	78,175	78,708	79,370	79,985
55 years and over	14,280	14,234	14,303	14,219	14,372	14,403	14,302	14,397	14,454	14,495	14,673	14,607	14,564
Men, 16 years and over	59,814	59,957	60,185	60,682	60,738	60,952	61,198	61,649	61,925	62,286	62,568	62,875	63,254
16 to 24 years	10,746	10,615	10,562	10,660	10,554	10,552	10,522	10,504	10,394	10,492	10,381	10,417	10,456
16 to 19 years	3,386	3,299	3,249	3,262	3,339	3,354	3,325	3,341	3,318	3,428	3,440	3,436	3,498
16 to 17 years	1,304	1,287	1,299	1,313	1,371	1,352	1,373	1,385	1,363	1,406	1,417	1,409	1,395
18 to 19 years	2,083	2,008	1,961	1,968	1,964	1,984	1,967	1,965	1,949	2,002	2,036	2,027	2,098
20 to 24 years	7,359	7,316	7,313	7,398	7,215	7,199	7,198	7,163	7,075	7,064	6,941	6,981	6,958
25 years and over	49,052	49,341	49,622	50,045	50,165	50,402	50,677	51,163	51,513	51,805	52,185	52,477	52,770
25 to 54 years	40,625	40,891	41,172	41,620	41,731	42,034	42,267	42,659	42,992	43,300	43,590	43,938	44,263
55 years and over	8,429	8,450	8,464	8,400	8,437	8,374	8,422	8,481	8,528	8,514	8,605	8,501	8,513
Women, 16 years and over	47,004	47,233	47,799	48,078	48,485	49,021	49,238	49,622	50,221	50,567	50,918	51,338	51,387
16 to 24 years	9,689	9,703	9,743	9,711	9,722	9,672	9,659	9,689	9,735	9,767	9,710	9,750	9,600
16 to 19 years	3,049	3,094	3,113	3,147	3,154	3,134	3,168	3,170	3,262	3,312	3,296	3,300	3,288
16 to 17 years	1,168	1,197	1,183	1,238	1,267	1,260	1,317	1,311	1,321	1,382	1,359	1,320	1,322
18 to 19 years	1,876	1,888	1,931	1,918	1,886	1,862	1,863	1,863	1,942	1,926	1,935	1,977	1,965
20 to 24 years	6,641	6,609	6,630	6,563	6,568	6,538	6,492	6,520	6,473	6,454	6,414	6,450	6,312
25 years and over	37,312	37,541	38,048	38,366	38,763	39,366	39,561	39,928	40,485	40,826	41,188	41,568	41,776
25 to 54 years	31,450	31,781	32,213	32,526	32,817	33,364	33,682	33,986	34,555	34,875	35,118	35,431	35,722
55 years and over	5,852	5,784	5,839	5,820	5,935	6,029	5,880	5,916	5,926	5,982	6,069	6,105	6,051

A-48. Unemployed persons by sex and age, seasonally adjusted

(In thousands)

Sex and age	1985			1986				1987				1988	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over	8,371	8,304	8,203	8,201	8,419	8,230	8,121	7,880	7,479	7,199	7,082	6,928	6,616
16 to 24 years	3,178	3,183	3,216	3,111	3,198	3,110	3,007	2,998	2,851	2,710	2,626	2,607	2,464
16 to 19 years	1,428	1,463	1,503	1,443	1,519	1,453	1,402	1,408	1,346	1,296	1,342	1,282	1,200
16 to 17 years	654	652	685	660	681	668	652	669	653	614	657	595	534
18 to 19 years	780	795	822	789	843	772	754	744	697	671	686	692	668
20 to 24 years	1,749	1,720	1,712	1,667	1,680	1,657	1,604	1,590	1,505	1,414	1,283	1,326	1,264
25 years and over	5,181	5,136	4,984	5,091	5,207	5,143	5,108	4,886	4,609	4,509	4,445	4,324	4,137
25 to 54 years	4,556	4,515	4,390	4,487	4,653	4,561	4,536	4,413	4,106	4,020	3,947	3,850	3,674
55 years and over	635	625	574	617	563	576	561	486	504	481	492	489	469
Men, 16 years and over	4,537	4,510	4,482	4,449	4,603	4,563	4,530	4,383	4,184	3,936	3,843	3,790	3,595
16 to 24 years	1,735	1,746	1,744	1,652	1,735	1,704	1,625	1,618	1,545	1,456	1,408	1,404	1,305
16 to 19 years	775	820	832	760	819	792	746	767	740	703	719	685	644
16 to 17 years	371	360	367	355	356	367	342	360	362	332	358	315	285
18 to 19 years	411	446	465	411	470	412	404	413	387	359	359	376	367
20 to 24 years	960	926	912	892	916	912	879	851	805	753	689	719	661
25 years and over	2,791	2,779	2,729	2,798	2,859	2,878	2,893	2,769	2,628	2,497	2,424	2,389	2,280
25 to 54 years	2,423	2,414	2,374	2,443	2,510	2,513	2,532	2,466	2,295	2,197	2,134	2,085	1,981
55 years and over	370	366	347	367	347	360	359	313	325	295	291	318	293
Women, 16 years and over	3,835	3,794	3,721	3,753	3,817	3,668	3,591	3,497	3,295	3,263	3,239	3,138	3,021
16 to 24 years	1,442	1,437	1,472	1,458	1,463	1,405	1,382	1,381	1,306	1,254	1,218	1,203	1,159
16 to 19 years	653	643	671	683	700	661	657	641	606	593	623	596	556
16 to 17 years	283	292	318	305	324	301	310	309	291	282	299	280	248
18 to 19 years	368	349	356	378	372	360	350	332	311	312	327	316	302
20 to 24 years	789	794	801	775	764	745	725	739	700	661	594	607	603
25 years and over	2,391	2,356	2,255	2,293	2,348	2,265	2,214	2,118	1,981	2,012	2,022	1,935	1,856
25 to 54 years	2,133	2,101	2,016	2,044	2,144	2,048	2,005	1,947	1,811	1,822	1,813	1,766	1,694
55 years and over	265	260	226	250	216	216	202	173	179	186	201	170	177

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-49. Unemployment rates by sex and age, seasonally adjusted

(Civilian workers)

Sex and age	1985			1986				1987				1988	
	II	III	IV	I	II	III	IV	I	II	III	IV	i	II
Total, 16 years and over	7.3	7.2	7.1	7.0	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5
16 to 24 years	13.5	13.5	13.7	13.2	13.6	13.3	13.0	12.9	12.4	11.8	11.6	11.4	10.9
16 to 19 years	18.2	18.6	19.1	18.4	19.0	18.3	17.8	17.8	17.0	16.1	16.6	16.0	15.0
16 to 17 years	20.9	20.8	21.6	20.6	20.5	20.4	19.5	19.9	19.6	18.0	19.1	17.9	16.4
18 to 19 years	16.5	17.0	17.4	16.9	18.0	16.7	16.5	16.3	15.2	14.6	14.7	14.7	14.1
20 to 24 years	11.1	11.0	10.9	10.7	10.9	10.8	10.5	10.4	10.0	9.5	8.8	9.0	8.7
25 years and over	5.7	5.6	5.4	5.4	5.5	5.4	5.4	5.1	4.8	4.6	4.5	4.4	4.2
25 to 54 years	5.9	5.8	5.6	5.7	5.9	5.7	5.6	5.4	5.0	4.9	4.8	4.6	4.4
55 years and over	4.3	4.2	3.9	4.2	3.8	3.8	3.8	3.3	3.4	3.2	3.2	3.2	3.1
Men, 16 years and over	7.0	7.0	6.9	6.8	7.0	7.0	6.9	6.6	6.3	5.9	5.8	5.7	5.4
16 to 24 years	13.9	14.1	14.2	13.4	14.1	13.9	13.4	13.3	12.9	12.2	11.9	11.9	11.1
16 to 19 years	18.6	19.9	20.4	18.9	19.7	19.1	18.3	18.7	18.2	17.0	17.3	16.6	15.6
16 to 17 years	22.1	21.9	22.0	21.3	20.6	21.3	20.0	20.6	21.0	19.1	20.2	18.3	17.0
18 to 19 years	16.5	18.2	19.2	17.3	19.3	17.2	17.0	17.4	16.6	15.2	15.0	15.6	14.9
20 to 24 years	11.5	11.2	11.1	10.8	11.3	11.2	10.9	10.6	10.2	9.6	9.0	9.3	8.7
25 years and over	5.4	5.3	5.2	5.3	5.4	5.4	5.4	5.1	4.9	4.6	4.4	4.4	4.1
25 to 54 years	5.6	5.6	5.5	5.5	5.7	5.6	5.7	5.5	5.1	4.8	4.7	4.5	4.3
55 years and over	4.2	4.1	3.9	4.2	4.0	4.1	4.1	3.6	3.7	3.3	3.3	3.6	3.3
Women, 16 years and over	7.5	7.4	7.2	7.2	7.3	7.0	6.8	6.6	6.2	6.1	6.0	5.8	5.6
16 to 24 years	13.0	12.9	13.1	13.1	13.1	12.7	12.5	12.5	11.8	11.4	11.1	11.0	10.8
16 to 19 years	17.6	17.2	17.7	17.8	18.2	17.4	17.2	16.8	15.7	15.2	15.9	15.3	14.5
16 to 17 years	19.5	19.6	21.2	19.8	20.4	19.3	19.0	19.1	18.1	17.0	18.0	17.5	15.8
18 to 19 years	16.4	15.6	15.6	16.5	16.5	16.2	15.9	15.1	13.8	14.0	14.5	13.8	13.3
20 to 24 years	10.6	10.7	10.8	10.6	10.4	10.2	10.1	10.2	9.8	9.3	8.5	8.6	8.7
25 years and over	6.0	5.9	5.6	5.6	5.7	5.4	5.3	5.0	4.7	4.7	4.7	4.4	4.3
25 to 54 years	6.4	6.2	5.9	5.9	6.1	5.8	5.6	5.4	5.0	5.0	4.9	4.7	4.5
55 years and over	4.3	4.3	3.7	4.1	3.5	3.5	3.3	2.8	2.9	3.0	3.2	2.7	2.8

A-50. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1985			1986				1987				1988	
	II	III	IV	I	II	III	IV	i	II	III	IV	i	II
CHARACTERISTIC													
Total (all civilian workers)	7.3	7.2	7.1	7.0	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5
Men, 20 years and over	6.2	6.1	6.0	6.0	6.2	6.1	6.1	5.8	5.6	5.2	5.0	5.0	4.7
Women, 20 years and over	6.7	6.7	6.4	6.4	6.4	6.2	6.0	5.8	5.4	5.3	5.2	5.0	4.9
Both sexes, 16 to 19 years	18.2	18.6	19.1	18.4	19.0	18.3	17.8	17.8	17.0	16.1	16.6	16.0	15.0
White	6.3	6.2	6.0	6.1	6.2	6.0	5.9	5.7	5.4	5.1	5.0	4.8	4.6
Black and other	13.5	13.4	13.7	13.1	13.5	13.1	12.6	12.5	11.8	11.2	10.9	11.2	10.7
Black	14.9	14.8	15.1	14.6	14.8	14.6	14.2	14.0	13.2	12.5	12.2	12.5	12.0
Hispanic origin	10.6	10.6	10.7	10.8	10.7	10.9	10.1	9.6	8.9	8.1	8.5	7.9	9.1
Married men, spouse present	4.3	4.3	4.2	4.4	4.4	4.3	4.4	4.2	4.0	3.7	3.5	3.5	3.1
Married women, spouse present	5.8	5.6	5.4	5.3	5.3	5.2	4.9	4.6	4.2	4.2	4.2	4.1	3.8
Women who maintain families	10.4	10.7	10.1	10.0	9.8	9.8	9.6	9.7	9.5	9.1	8.6	8.2	8.3
Full-time workers	6.9	6.9	6.7	6.7	6.8	6.6	6.5	6.2	5.9	5.6	5.5	5.4	5.1
Part-time workers	9.7	9.2	9.1	9.0	9.3	9.2	9.0	8.9	8.2	8.2	8.2	8.0	7.6
Unemployed 15 weeks and over ¹	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.6	1.5	1.4	1.3
Labor force time lost ²	8.2	8.2	7.9	8.0	8.1	7.9	7.7	7.5	7.2	6.9	6.7	6.6	6.3
INDUSTRY													
Nonagricultural private wage and salary workers	7.2	7.2	7.1	7.0	7.2	7.0	6.9	6.6	6.2	6.0	5.8	5.7	5.4
Goods-producing industries	8.8	9.1	8.7	8.5	8.6	8.5	8.8	8.1	7.5	7.0	6.6	6.8	6.4
Mining	9.2	9.2	8.7	10.5	13.9	15.7	14.7	12.2	11.2	8.0	7.8	7.8	8.5
Construction	12.7	13.5	13.0	13.0	12.6	12.7	14.0	12.2	11.9	11.3	10.8	11.3	10.4
Manufacturing	7.8	7.8	7.5	7.1	7.2	7.0	7.1	6.8	6.1	5.7	5.4	5.5	5.1
Durable goods	7.7	7.8	7.5	7.1	7.0	6.7	6.8	6.7	5.9	5.6	4.9	5.5	4.7
Nondurable goods	7.9	7.9	7.5	7.2	7.4	7.4	7.5	6.9	6.4	5.9	6.0	5.5	5.8
Service-producing industries	6.4	6.3	6.3	6.3	6.5	6.3	6.0	5.9	5.6	5.5	5.4	5.2	5.0
Transportation and public utilities	5.2	5.2	5.2	5.2	5.3	5.1	4.7	4.4	4.6	4.3	4.5	3.8	4.1
Wholesale and retail trade	7.6	7.7	7.7	7.5	7.9	7.6	7.3	7.3	7.0	6.8	6.5	6.4	6.0
Finance and service industries	5.8	5.5	5.4	5.6	5.6	5.6	5.3	5.1	4.8	4.9	4.8	4.6	4.4
Government workers	3.9	4.0	3.8	3.7	3.6	3.3	3.6	3.5	3.4	3.5	3.3	2.8	2.9
Agricultural wage and salary workers	12.9	13.3	12.2	12.3	14.8	12.4	10.9	11.1	9.4	10.0	10.9	10.9	11.4

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
QUARTERLY AVERAGES**

A-51. Unemployed persons by duration of unemployment, seasonally adjusted

(Numbers in thousands)

Weeks of unemployment	1985			1986				1987				1988	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
DURATION													
Less than 5 weeks	3,513	3,498	3,437	3,454	3,551	3,431	3,376	3,353	3,214	3,203	3,223	3,061	3,089
5 to 14 weeks	2,533	2,529	2,489	2,550	2,695	2,498	2,513	2,448	2,191	2,078	2,030	2,170	1,985
15 weeks and over	2,309	2,284	2,250	2,229	2,199	2,303	2,211	2,124	2,052	1,907	1,809	1,732	1,554
15 to 26 weeks	1,014	1,045	1,016	1,075	1,001	1,090	1,031	990	977	899	878	856	745
27 weeks and over	1,295	1,239	1,234	1,153	1,199	1,213	1,180	1,133	1,075	1,008	930	876	808
Average (mean) duration, in weeks	15.7	15.4	15.4	15.0	14.8	15.4	15.1	14.9	14.8	14.2	14.1	14.1	13.4
Median duration, in weeks	6.8	7.0	6.9	6.9	6.8	7.1	7.0	6.8	6.7	6.3	6.1	6.5	5.8
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	42.0	42.1	42.0	42.0	42.0	41.7	41.7	42.3	43.1	44.6	45.6	44.0	46.6
5 to 14 weeks	30.3	30.4	30.4	31.0	31.9	30.3	31.0	30.9	29.4	28.9	28.7	31.2	30.0
15 weeks and over	27.6	27.5	27.5	27.1	26.0	28.0	27.3	26.8	27.5	26.5	25.6	24.9	23.4
15 to 26 weeks	12.1	12.6	12.4	13.1	11.8	13.2	12.7	12.5	13.1	12.5	12.4	12.3	11.2
27 weeks and over	15.5	14.9	15.1	14.0	14.2	14.7	14.6	14.3	14.4	14.0	13.2	12.6	12.2

A-52. Unemployed persons by reason for unemployment, seasonally adjusted

(Numbers in thousands)

Reasons for unemployment	1985			1986				1987				1988	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
NUMBER OF UNEMPLOYED													
Job losers	4,070	4,215	4,044	4,043	4,160	4,006	3,938	3,866	3,624	3,410	3,298	3,185	3,070
On layoff	1,143	1,167	1,145	1,132	1,095	1,058	1,061	1,030	935	870	893	890	826
Other job losers	2,928	3,048	2,899	2,911	3,066	2,948	2,877	2,835	2,688	2,540	2,406	2,294	2,244
Job leavers	906	870	877	985	1,041	1,005	1,032	979	948	987	944	1,040	954
Reentrants	2,306	2,234	2,231	2,172	2,167	2,186	2,112	2,058	1,980	1,936	1,921	1,874	1,765
New entrants	1,066	1,018	1,035	1,017	1,058	1,042	1,002	1,002	924	860	893	879	833
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	48.8	50.6	49.4	49.2	49.4	48.6	48.7	48.9	48.5	47.4	46.7	45.6	46.4
On layoff	13.7	14.0	14.0	13.8	13.0	12.8	13.1	13.0	12.5	12.1	12.7	12.8	12.5
Other job losers	35.1	36.6	35.4	35.4	36.4	35.8	35.6	35.9	36.0	35.3	34.1	32.9	33.9
Job leavers	10.8	10.4	10.7	12.0	12.4	12.2	12.8	12.4	12.7	13.7	13.4	14.9	14.4
Reentrants	27.6	26.8	27.3	26.4	25.7	26.5	26.1	26.0	26.5	26.9	27.2	26.9	26.7
New entrants	12.8	12.2	12.6	12.4	12.6	12.7	12.4	12.7	12.4	12.0	12.7	12.6	12.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.5	3.6	3.5	3.5	3.5	3.4	3.3	3.2	3.0	2.8	2.7	2.6	2.5
On layoff .....	.8	.8	.8	.8	.9	.8	.9	.8	.8	.8	.8	.9	.8
Other job losers	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5
Job leavers .....	.9	.9	.9	.9	.9	.9	.8	.8	.8	.7	.7	.7	.7

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-53. Persons not in the labor force by reason, sex, and race, seasonally adjusted

(In thousands)

Reason, sex, and race	1985			1986				1987				1988	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
TOTAL													
Total not in labor force	62,756	62,920	62,754	62,863	62,679	62,632	62,808	62,851	62,901	62,963	62,899	62,825	63,131
Do not want a job now	56,870	56,789	56,756	57,135	56,831	56,802	57,026	56,983	57,008	57,490	57,408	57,414	57,589
Current activity:													
Going to school	6,185	6,293	6,321	6,225	6,483	6,172	6,333	6,394	6,403	6,388	6,414	6,325	6,352
Ill, disabled	3,842	3,835	3,990	4,154	4,057	4,079	3,957	4,111	4,193	4,426	4,467	4,254	4,464
Keeping house	27,303	27,032	26,857	26,724	26,538	26,183	26,024	26,182	25,550	25,646	25,513	25,289	25,330
Retired	14,711	15,088	15,225	15,208	15,316	15,818	16,055	15,872	16,250	16,317	16,508	16,862	16,784
Other activity	4,829	4,541	4,364	4,824	4,437	4,550	4,657	4,424	4,611	4,713	4,507	4,684	4,659
Want a job now	5,782	5,995	6,002	5,772	5,842	5,943	5,861	5,780	5,871	5,802	5,462	5,510	5,313
Reason not looking:													
School attendance	1,456	1,389	1,481	1,428	1,378	1,535	1,425	1,348	1,470	1,556	1,389	1,310	1,276
Ill health, disability	793	785	862	841	869	912	763	848	914	847	834	850	844
Home responsibilities	1,254	1,397	1,366	1,375	1,293	1,208	1,356	1,231	1,325	1,274	1,234	1,182	1,215
Think cannot get a job	1,179	1,221	1,175	1,081	1,129	1,138	1,147	1,135	1,048	992	910	1,027	910
Job-market factors	825	818	775	771	767	742	824	762	694	635	581	700	589
Personal factors	354	403	400	310	362	396	323	373	354	357	329	327	321
Other reasons ¹	1,100	1,204	1,117	1,047	1,174	1,150	1,170	1,218	1,114	1,132	1,094	1,141	1,068
Men													
Total not in labor force	19,994	20,097	20,158	20,287	20,328	20,408	20,455	20,486	20,681	20,811	20,845	20,856	20,896
Do not want a job now	17,928	18,044	18,138	18,391	18,393	18,320	18,444	18,459	18,585	18,945	18,878	18,997	18,854
Want a job now	2,005	2,004	1,980	1,945	1,941	2,084	2,008	1,994	2,062	2,064	1,918	1,971	1,872
Reason not looking:													
School attendance	721	660	705	741	654	812	676	661	750	773	737	633	674
Ill health, disability	339	365	398	373	453	448	360	408	463	416	414	406	370
Think cannot get a job	524	500	490	424	406	425	493	469	428	431	358	462	403
Other reasons ¹	421	479	387	408	428	399	479	456	421	444	409	471	425
Women													
Total not in labor force	42,763	42,822	42,596	42,577	42,351	42,224	42,354	42,365	42,220	42,152	42,055	41,970	42,235
Do not want a job now	38,942	38,745	38,618	38,744	38,438	38,482	38,582	38,524	38,423	38,545	38,530	38,417	38,735
Want a job now	3,777	3,991	4,022	3,827	3,901	3,860	3,853	3,786	3,809	3,738	3,545	3,539	3,440
Reason not looking:													
School attendance	736	729	776	688	723	723	749	687	720	784	653	677	602
Ill health, disability	453	419	464	469	416	464	403	440	451	431	421	444	474
Home responsibilities	1,254	1,397	1,366	1,375	1,293	1,208	1,356	1,231	1,325	1,274	1,234	1,182	1,215
Think cannot get a job	655	721	685	657	723	713	654	666	619	561	552	566	507
Other reasons ¹	679	725	731	639	746	751	691	762	693	688	685	670	643
White													
Total not in labor force	53,803	53,914	53,666	53,793	53,665	53,484	53,557	53,658	53,627	53,771	53,679	53,455	53,557
Do not want a job now	49,646	49,429	49,294	49,514	49,403	49,214	49,336	49,437	49,284	49,536	49,564	49,536	49,640
Want a job now	4,208	4,419	4,396	4,283	4,311	4,270	4,238	4,198	4,344	4,252	4,045	4,020	3,883
Reason not looking:													
School attendance	1,001	991	1,051	1,013	964	1,017	972	951	1,093	1,062	986	945	905
Ill health, disability	550	592	602	633	606	634	541	617	683	648	646	644	637
Home responsibilities	980	1,038	1,023	1,028	1,005	900	992	912	959	948	909	837	858
Think cannot get a job	772	810	803	731	756	797	806	771	714	643	620	697	593
Other reasons ¹	904	988	918	877	981	921	927	946	896	951	884	897	891
Black													
Total not in labor force	7,292	7,338	7,313	7,294	7,211	7,431	7,401	7,367	7,457	7,326	7,294	7,406	7,606
Do not want a job now	5,919	5,949	5,940	5,957	5,913	6,028	6,034	5,962	6,169	6,088	6,083	6,094	6,372
Want a job now	1,387	1,351	1,380	1,329	1,303	1,430	1,389	1,402	1,294	1,237	1,210	1,320	1,242
Reason not looking:													
School attendance	404	317	343	382	342	428	374	346	315	333	341	351	312
Ill health, disability	209	191	234	210	216	256	190	225	193	168	165	195	186
Home responsibilities	260	306	289	291	266	270	308	291	313	275	304	310	318
Think cannot get a job	357	359	348	307	295	284	292	327	298	315	237	266	262
Other reasons ¹	157	177	166	139	184	191	225	212	175	145	163	198	164

¹ Includes small number of men not looking for work because of "home responsibilities."

A-54. Persons not in the labor force by reason, sex, and age

(In thousands)

Reason and sex	Total		Age							
	II 1987	II 1988	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			II 1987	II 1988	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988
TOTAL										
Total not in labor force	62,795	63,034	6,489	6,413	3,984	3,950	21,248	21,279	31,074	31,392
Do not want a job now	56,651	57,444	4,903	4,930	2,992	3,122	18,229	18,588	30,528	30,800
Current activity:										
Going to school	5,711	5,831	3,773	3,841	1,186	1,221	743	747	8	20
Ill, disabled	4,319	4,587	30	58	110	168	2,116	2,246	2,064	2,113
Keeping house	25,750	25,522	333	319	1,243	1,251	12,525	12,492	11,650	11,461
Retired	16,348	16,889	-	-	-	-	359	433	15,989	16,454
Other activity	4,523	4,614	767	712	453	482	2,486	2,670	817	752
Want a job now	6,144	5,590	1,586	1,483	992	827	3,018	2,689	545	593
Reason for not looking:										
School attendance	1,899	1,698	1,232	1,132	355	331	311	228	-	7
Ill health, disability	908	842	24	27	56	55	645	564	182	197
Home responsibilities	1,283	1,175	69	61	250	201	918	857	47	57
Think cannot get a job	971	842	127	99	160	108	528	472	156	164
Job-market factors	667	561	84	48	117	80	389	373	77	60
Personal factors	304	281	44	50	44	28	140	99	80	104
Other reasons ¹	1,083	1,032	134	164	171	132	616	568	160	168
Men										
Total not in labor force	20,512	20,729	3,150	3,068	1,308	1,297	4,083	4,224	11,971	12,140
Do not want a job now	18,221	18,636	2,311	2,272	950	1,006	3,199	3,486	11,759	11,876
Current activity:										
Going to school	2,860	2,760	1,851	1,832	662	636	345	294	1	1
Ill, disabled	2,145	2,382	17	32	73	103	1,132	1,310	921	936
Keeping house	504	413	29	18	26	16	192	138	258	240
Retired	10,312	10,501	-	-	-	-	266	326	10,046	10,176
Other activity	2,400	2,580	414	390	189	251	1,264	1,418	533	523
Want a job now	2,291	2,093	838	797	358	292	883	740	212	263
Reason for not looking:										
School attendance	989	914	693	658	179	178	117	73	-	3
Ill health, disability	464	376	9	11	35	25	337	251	84	90
Think cannot get a job	408	379	70	66	71	39	214	200	53	74
Other reasons ¹	429	424	66	62	73	50	215	216	75	96
Women										
Total not in labor force	42,283	42,305	3,339	3,345	2,676	2,653	17,165	17,055	19,103	19,252
Do not want a job now	38,430	38,808	2,590	2,659	2,041	2,118	15,029	15,105	18,769	18,923
Current activity:										
Going to school	2,851	3,071	1,922	2,010	526	586	396	456	6	19
Ill, disabled	2,174	2,205	12	27	35	65	985	937	1,142	1,177
Keeping house	25,246	25,110	303	301	1,216	1,236	12,333	12,352	11,393	11,220
Retired	6,036	6,388	-	-	-	-	93	107	5,944	6,279
Other activity	2,123	2,034	353	321	264	231	1,222	1,253	284	228
Want a job now	3,853	3,498	749	685	636	535	2,135	1,948	334	330
Reason not looking:										
School attendance	909	784	539	474	176	153	194	154	-	4
Ill health, disability	444	467	15	16	22	30	307	314	99	108
Home responsibilities	1,283	1,175	69	61	250	201	918	857	47	57
Think cannot get a job	563	463	58	32	89	69	313	271	103	89
Other reasons	654	609	68	102	99	82	403	352	85	72

¹ Includes small number of men not looking for work because of "home responsibilities."

force totals because of differences in the weighting patterns used in aggregating these data.

NOTE: Detail in tables A-54 and A-55 may not add to not-in-labor-

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-55. Persons not in the labor force by reason, race, Hispanic origin, age, and sex

(In thousands)

Reason, race, and Hispanic origin	Total		Age						Sex			
	|| 1987	|| 1988	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			|| 1987	|| 1988	|| 1987	|| 1988	|| 1987	|| 1988	|| 1987	|| 1988	|| 1987	|| 1988
WHITE												
Total not in labor force	53,523	53,415	7,901	7,702	17,740	17,594	27,882	28,120	17,233	17,373	36,290	36,041
Do not want a job now	48,983	49,344	6,008	6,047	15,553	15,658	27,420	27,641	15,484	15,804	33,501	33,542
Current activity:												
Going to school	4,340	4,328	3,773	3,797	559	511	7	19	2,148	2,074	2,192	2,254
Ill, disabled	3,404	3,560	102	156	1,622	1,730	1,678	1,672	1,719	1,906	1,685	1,654
Keeping house	22,866	22,629	1,214	1,213	11,023	10,932	10,628	10,485	380	325	22,486	22,304
Retired	14,691	15,198	-	-	324	398	14,366	14,798	9,321	9,523	5,370	5,675
Other activity	3,684	3,631	919	881	2,025	2,087	741	667	1,916	1,976	1,768	1,655
Want a job now	4,540	4,071	1,892	1,653	2,184	1,937	458	481	1,749	1,570	2,790	2,500
Reason for not looking:												
School attendance	1,451	1,243	1,215	1,079	236	157	-	7	763	660	688	583
Ill health, disability	678	636	61	67	473	413	144	155	369	309	309	326
Home responsibilities	891	795	192	161	657	594	42	39	-	-	891	795
Think cannot get a job	666	554	191	107	344	320	128	129	284	260	381	294
Other reasons ¹	854	843	233	239	474	453	144	151	333	341	521	502
BLACK												
Total not in labor force	7,433	7,580	2,069	2,118	2,681	2,730	2,683	2,733	2,629	2,656	4,804	4,924
Do not want a job now	6,090	6,288	1,464	1,539	2,017	2,122	2,609	2,628	2,188	2,237	3,901	4,051
Current activity:												
Going to school	969	1,006	872	913	98	92	-	-	481	447	488	559
Ill, disabled	818	929	35	61	432	452	351	417	375	421	443	508
Keeping house	2,226	2,119	299	304	1,078	1,069	849	747	96	64	2,130	2,055
Retired	1,390	1,453	-	-	29	29	1,361	1,425	818	828	571	626
Other activity	687	781	258	261	380	480	48	39	418	477	269	303
Want a job now	1,342	1,292	606	576	664	606	74	107	440	418	903	874
Reason for not looking:												
School attendance	372	373	321	331	51	43	-	-	186	207	187	166
Ill health, disability	201	200	20	14	144	137	36	47	74	60	127	140
Home responsibilities	332	336	122	96	209	224	2	14	-	-	332	336
Think cannot get a job	269	231	88	86	159	111	22	34	111	89	158	142
Other reasons ¹	168	152	55	49	101	91	14	12	69	62	99	90
HISPANIC ORIGIN												
Total not in labor force	4,313	4,360	1,210	1,114	1,981	2,119	1,122	1,128	1,229	1,214	3,084	3,146
Do not want a job now	3,613	3,786	894	906	1,621	1,774	1,097	1,107	975	1,029	2,638	2,757
Current activity:												
Going to school	541	542	482	477	60	66	-	-	248	256	293	286
Ill, disabled	332	331	19	42	205	183	107	106	156	187	176	143
Keeping house	1,870	2,037	311	280	1,160	1,323	400	433	45	63	1,825	1,974
Retired	585	560	-	-	11	7	573	554	360	343	225	218
Other activity	285	316	82	107	185	195	17	14	166	180	119	136
Want a job now	699	574	318	207	359	345	23	22	253	185	445	390
Reason for not looking:												
School attendance	263	170	210	134	53	35	-	-	127	85	136	85
Ill health, disability	73	92	1	10	67	71	6	11	44	28	29	64
Home responsibilities	179	134	34	14	141	116	4	4	-	-	179	134
Think cannot get a job	101	101	46	17	50	78	5	7	55	43	45	58
Other reasons ¹	83	77	27	32	48	45	8	8	27	29	56	49

¹ Includes small number of men not looking for work because of "home responsibilities."

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-56. Persons not in the labor force who desire work but think they cannot get jobs by reason, sex, age, race, and Hispanic origin

(In thousands)

Reason and sex	2nd Quarter 1988							
	Total	Age				Race and Hispanic origin		
		16 to 19 years	20 to 24 years	25 to 59 years	60 years and over	White	Black	Hispanic origin
TOTAL								
Personal factors:								
Employers think too young or old	116	17	-	11	88	93	22	7
Lacks education or training	91	18	17	50	5	48	34	14
Other personal handicap	74	15	11	38	11	48	24	12
Job-market factors:								
Could not find work	333	30	34	241	28	209	104	53
Thinks no job available	228	18	46	132	32	156	47	15
Men								
Personal factors:								
Employers think too young or old	58	13	-	3	42	43	14	5
Lacks education or training	30	17	1	10	2	12	13	-
Other personal handicap	53	10	4	33	5	38	13	9
Job-market factors:								
Could not find work	140	13	13	102	13	97	38	22
Thinks no job available	98	14	21	52	12	70	12	8
Women								
Personal factors:								
Employers think too young or old	58	4	-	8	46	50	8	2
Lacks education or training	60	1	16	39	4	36	21	14
Other personal handicap	22	5	7	4	5	10	12	3
Job-market factors:								
Could not find work	193	17	21	139	16	112	66	31
Thinks no job available	130	4	25	80	20	86	35	8

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-57. Work-seeking intentions of persons not in the labor force and work history of those who intend to seek work within the next 12 months by sex, age, and race

(In thousands)

Work-seeking intentions, work history, and sex	Total		Age						Race			
	|| 1987	|| 1988	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			|| 1987	|| 1988	|| 1987	|| 1988	|| 1987	|| 1988	|| 1987	|| 1988	|| 1987	|| 1988
TOTAL												
Do not intend to seek work	53,913	54,717	6,151	6,240	17,244	17,608	30,518	30,869	46,679	47,017	5,780	5,997
Intend to seek work in the next 12 months	8,880	8,316	4,321	4,122	4,004	3,670	555	524	6,843	6,397	1,653	1,583
Never worked	1,701	1,582	1,520	1,473	178	111	3	-	1,159	1,065	433	434
Last worked over 5 years ago	1,253	1,114	97	69	967	850	190	194	923	831	290	237
Last worked 1 to 5 years ago	2,227	1,752	635	438	1,408	1,142	183	173	1,753	1,271	386	400
Worked during previous 12 months	3,699	3,869	2,068	2,143	1,451	1,568	180	157	3,008	3,231	545	513
Men												
Do not intend to seek work	17,339	17,729	2,471	2,486	3,106	3,329	11,762	11,914	14,763	15,027	2,080	2,122
Intend to seek work in the next 12 months	3,173	2,999	1,987	1,879	977	895	208	225	2,469	2,346	549	534
Never worked	809	708	774	695	35	12	-	-	572	472	191	211
Last worked over 5 years ago	237	223	19	26	157	134	61	65	176	178	53	30
Last worked 1 to 5 years ago	670	534	220	153	363	294	85	86	547	420	93	90
Worked during previous 12 months	1,457	1,535	973	1,005	422	456	61	75	1,174	1,276	212	203
Women												
Do not intend to seek work	36,575	36,988	3,680	3,753	14,138	14,281	18,755	18,954	31,916	31,990	3,699	3,875
Intend to seek work in the next 12 months	5,708	5,317	2,335	2,244	3,026	2,773	348	299	4,374	4,051	1,105	1,049
Never worked	892	874	746	778	145	98	3	-	587	593	242	224
Last worked over 5 years ago	1,017	890	79	43	809	719	128	129	747	653	237	206
Last worked 1 to 5 years ago	1,557	1,219	415	286	1,045	845	98	86	1,206	851	293	310
Worked during previous 12 months	2,242	2,333	1,096	1,138	1,028	1,112	119	84	1,834	1,955	333	310

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-58. Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin

(Numbers in thousands)

Employment status, sex, and age	Total		White		Black		Hispanic origin	
	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988
TOTAL								
Civilian noninstitutional population	182,527	184,389	156,806	158,048	20,310	20,651	12,809	13,268
Civilian labor force	119,732	121,355	103,283	104,633	12,878	13,071	8,496	8,908
Percent of population	65.6	65.8	65.9	66.2	63.4	63.3	66.3	67.1
Employed	112,305	114,778	97,816	99,875	11,163	11,477	7,771	8,131
Agriculture	3,475	3,343	3,233	3,101	171	181	465	380
Nonagricultural industries	108,830	111,435	94,583	96,774	10,992	11,296	7,306	7,751
Unemployed	7,426	6,577	5,466	4,758	1,715	1,594	725	777
Unemployment rate	6.2	5.4	5.3	4.5	13.3	12.2	8.5	8.7
Not in labor force	62,795	63,034	53,523	53,415	7,433	7,580	4,313	4,360
Men, 16 years and over								
Civilian noninstitutional population	86,791	87,745	75,114	75,778	9,110	9,272	6,341	6,575
Civilian labor force	66,279	67,016	57,881	58,404	6,481	6,616	5,112	5,361
Percent of population	76.4	76.4	77.1	77.1	71.1	71.4	80.6	81.5
Employed	62,125	63,445	54,749	55,763	5,609	5,815	4,673	4,903
Agriculture	2,773	2,619	2,570	2,406	146	161	402	322
Nonagricultural industries	59,352	60,826	52,178	53,358	5,463	5,654	4,271	4,581
Unemployed	4,154	3,571	3,133	2,641	872	801	439	458
Unemployment rate	6.3	5.3	5.4	4.5	13.5	12.1	8.6	8.5
Not in labor force	20,512	20,729	17,233	17,373	2,629	2,656	1,229	1,214
Men, 20 years and over								
Civilian noninstitutional population	79,466	80,418	69,091	69,789	8,046	8,197	5,673	5,893
Civilian labor force	62,103	62,757	54,254	54,739	6,024	6,131	4,779	4,979
Percent of population	78.2	78.0	78.5	78.4	74.9	74.8	84.2	84.5
Employed	58,724	59,866	51,703	52,605	5,320	5,483	4,417	4,621
Agriculture	2,493	2,344	2,301	2,144	139	151	365	291
Nonagricultural industries	56,231	57,523	49,402	50,461	5,182	5,333	4,052	4,330
Unemployed	3,380	2,891	2,551	2,135	704	648	362	358
Unemployment rate	5.4	4.6	4.7	3.9	11.7	10.6	7.6	7.2
Not in labor force	17,362	17,661	14,838	15,050	2,022	2,065	894	914
Women, 16 years and over								
Civilian noninstitutional population	95,736	96,644	81,691	82,270	11,201	11,380	6,468	6,693
Civilian labor force	53,452	54,339	45,402	46,228	6,397	6,455	3,384	3,547
Percent of population	55.8	56.2	55.6	56.2	57.1	56.7	52.3	53.0
Employed	50,180	51,333	43,068	44,111	5,554	5,662	3,098	3,229
Agriculture	702	724	663	695	25	20	63	58
Nonagricultural industries	49,478	50,609	42,405	43,416	5,529	5,642	3,036	3,170
Unemployed	3,272	3,006	2,334	2,117	843	793	285	318
Unemployment rate	6.1	5.5	5.1	4.6	13.2	12.3	8.4	9.0
Not in labor force	42,283	42,305	36,290	36,041	4,804	4,924	3,084	3,146
Women, 20 years and over								
Civilian noninstitutional population	88,468	89,397	75,762	76,382	10,103	10,274	5,809	6,023
Civilian labor force	49,524	50,437	41,987	42,811	5,970	6,055	3,109	3,238
Percent of population	56.0	56.4	55.4	56.0	59.1	58.9	53.5	53.8
Employed	46,923	48,051	40,140	41,153	5,297	5,410	2,873	3,005
Agriculture	653	662	615	636	23	16	58	57
Nonagricultural industries	46,270	47,389	39,525	40,517	5,273	5,394	2,816	2,948
Unemployed	2,602	2,386	1,847	1,658	673	645	236	233
Unemployment rate	5.3	4.7	4.4	3.9	11.3	10.7	7.6	7.2
Not in labor force	38,944	38,960	33,775	33,571	4,134	4,219	2,700	2,785
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,593	14,574	11,952	11,877	2,161	2,180	1,327	1,352
Civilian labor force	8,104	8,161	7,042	7,082	884	885	608	691
Percent of population	55.5	56.0	58.9	59.6	40.9	40.6	45.8	51.1
Employed	6,659	6,861	5,973	6,116	546	583	481	506
Agriculture	330	338	317	320	9	14	42	33
Nonagricultural industries	6,329	6,523	5,656	5,796	537	569	439	474
Unemployed	1,444	1,300	1,069	966	338	302	126	185
Unemployment rate	17.8	15.9	15.2	13.6	38.3	34.1	20.8	26.8
Not in labor force	6,489	6,413	4,910	4,795	1,277	1,296	720	661

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-59. Employment status of civilians of Mexican, Puerto Rican, and Cuban origin by sex and age

(Numbers in thousands)

Employment status, sex, and age	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988
TOTAL								
Civilian noninstitutional population	12,809	13,268	7,665	7,907	1,534	1,658	829	870
Civilian labor force	8,496	8,908	5,204	5,526	842	917	542	581
Percent of population	66.3	67.1	67.9	69.9	54.9	55.3	65.4	66.8
Employed	7,771	8,131	4,704	4,972	773	849	513	563
Agriculture	465	380	412	348	16	6	1	3
Nonagricultural industries	7,306	7,751	4,292	4,625	757	843	512	560
Unemployed	725	777	500	554	69	68	29	19
Unemployment rate	8.5	8.7	9.6	10.0	8.2	7.4	5.4	3.2
Not in labor force	4,313	4,360	2,461	2,381	692	741	287	288
Men, 16 years and over								
Civilian noninstitutional population	6,341	6,575	3,942	4,107	654	738	419	429
Civilian labor force	5,112	5,361	3,241	3,455	478	538	320	343
Percent of population	80.6	81.5	82.2	84.1	73.1	72.9	76.4	80.0
Employed	4,673	4,903	2,938	3,135	439	499	305	332
Agriculture	402	322	359	294	11	6	1	2
Nonagricultural industries	4,271	4,581	2,578	2,841	428	494	304	329
Unemployed	439	458	303	321	40	39	16	11
Unemployment rate	8.6	8.5	9.3	9.3	8.3	7.2	4.9	3.1
Not in labor force	1,229	1,214	701	651	175	200	99	87
Men, 20 years and over								
Civilian noninstitutional population	5,673	5,893	3,486	3,642	586	660	388	405
Civilian labor force	4,779	4,979	2,988	3,171	459	505	310	334
Percent of population	84.2	84.5	85.7	87.1	78.3	76.5	79.9	82.5
Employed	4,417	4,621	2,747	2,924	423	474	296	324
Agriculture	365	291	323	268	11	6	1	2
Nonagricultural industries	4,052	4,330	2,425	2,656	412	469	295	321
Unemployed	362	358	241	247	36	30	14	10
Unemployment rate	7.6	7.2	8.1	7.8	7.8	6.0	4.5	3.1
Not in labor force	894	914	497	471	127	156	79	70
Women, 16 years and over								
Civilian noninstitutional population	6,468	6,693	3,723	3,800	881	920	410	440
Civilian labor force	3,384	3,547	1,963	2,071	364	379	221	239
Percent of population	52.3	53.0	52.7	54.5	41.3	41.2	53.9	54.3
Employed	3,098	3,229	1,767	1,838	334	350	208	231
Agriculture	63	58	53	54	5	1	-	-
Nonagricultural industries	3,036	3,170	1,714	1,784	330	349	208	231
Unemployed	285	318	197	233	30	29	14	8
Unemployment rate	8.4	9.0	10.0	11.2	8.1	7.7	6.1	3.2
Not in labor force	3,084	3,146	1,760	1,730	517	541	188	202
Women, 20 years and over								
Civilian noninstitutional population	5,809	6,023	3,298	3,367	797	818	390	418
Civilian labor force	3,109	3,238	1,785	1,850	343	349	208	229
Percent of population	53.5	53.8	54.1	54.9	43.0	42.7	53.3	54.8
Employed	2,873	3,005	1,621	1,678	318	331	197	222
Agriculture	58	57	48	52	5	1	-	-
Nonagricultural industries	2,816	2,948	1,573	1,625	314	331	197	222
Unemployed	236	233	165	173	25	18	11	6
Unemployment rate	7.6	7.2	9.2	9.3	7.2	5.2	5.2	2.7
Not in labor force	2,700	2,785	1,513	1,516	454	468	182	189
Both sexes, 16 to 19 years								
Civilian noninstitutional population	1,327	1,352	881	898	151	180	51	47
Civilian labor force	608	691	430	504	41	63	24	19
Percent of population	45.8	51.1	48.8	56.1	27.2	35.0	(²)	(²)
Employed	481	506	337	370	32	43	20	17
Agriculture	42	33	42	27	-	-	-	-
Nonagricultural industries	439	474	295	343	32	43	20	17
Unemployed	126	185	94	134	9	20	5	2
Unemployment rate	20.8	26.8	21.8	26.6	(²)	31.4	(²)	(²)
Not in labor force	720	661	451	394	111	117	27	29

¹ Includes persons of Central or South American origin and of other Hispanic origin, not shown separately.

² Data not shown where base is less than 60,000.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-60. Employed civilians by selected social and economic categories, race, and Hispanic origin

(In thousands)

Category	Total		White		Black		Hispanic origin	
	1987	1988	1987	1988	1987	1988	1987	1988
CHARACTERISTIC								
Total (all civilian workers)	112,305	114,778	97,816	99,875	11,163	11,477	7,771	8,131
Men	62,125	63,445	54,749	55,763	5,609	5,815	4,673	4,903
Women	50,180	51,333	43,068	44,111	5,554	5,662	3,098	3,229
OCCUPATION								
Managerial and professional specialty	27,396	29,177	24,828	26,412	1,660	1,802	937	1,047
Executive, administrative, and managerial	13,115	14,337	12,032	13,132	707	767	491	588
Professional specialty	14,281	14,840	12,796	13,280	953	1,035	445	460
Technical, sales, and administrative support	34,917	35,150	30,926	30,972	2,996	3,082	2,024	2,041
Technicians and related support	3,275	3,409	2,881	2,917	252	325	137	142
Sales occupations	13,443	13,655	12,353	12,455	741	784	728	742
Administrative support, including clerical	18,199	18,087	15,693	15,600	2,003	1,973	1,159	1,157
Service occupations	15,142	15,251	11,966	11,986	2,628	2,735	1,356	1,477
Private household	925	893	687	669	213	201	122	135
Protective service	1,925	1,897	1,540	1,526	351	333	111	104
Service, except private household and protective	12,292	12,461	9,739	9,791	2,064	2,201	1,123	1,237
Precision production, craft, and repair	13,540	13,833	12,232	12,490	1,004	1,034	1,070	1,168
Mechanics and repairers	4,370	4,552	3,974	4,111	305	342	275	363
Construction trades	4,991	5,184	4,559	4,759	363	353	413	446
Other precision production, craft, and repair	4,179	4,096	3,698	3,620	336	339	383	360
Operators, fabricators, and laborers	17,404	17,658	14,281	14,645	2,631	2,556	1,838	1,962
Machine operators, assemblers, and inspectors	7,951	8,063	6,467	6,601	1,184	1,192	940	1,052
Transportation and material moving occupations	4,701	4,784	3,942	4,027	680	686	378	301
Handlers, equipment cleaners, helpers, and laborers	4,752	4,811	3,871	4,017	768	679	520	609
Construction laborers	793	777	647	652	128	112	119	120
Other handlers, equipment cleaners, helpers, and laborers	3,959	4,034	3,224	3,365	640	567	401	490
Farming, forestry, and fishing	3,906	3,709	3,584	3,369	243	268	548	436
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,798	1,745	1,624	1,559	131	149	408	340
Self-employed workers	1,489	1,414	1,427	1,361	38	32	49	40
Unpaid family workers	189	185	182	181	2		8	
Nonagricultural industries:								
Wage and salary workers	100,411	102,488	86,797	88,515	10,615	10,914	6,873	7,224
Government	16,724	16,999	13,583	13,828	2,603	2,611	904	908
Private industries	83,687	85,488	73,213	74,687	8,011	8,303	5,969	6,316
Private households	1,243	1,165	940	879	271	258	150	157
Other industries	82,444	84,323	72,274	73,808	7,740	8,045	5,819	6,158
Self-employed workers	8,143	8,649	7,530	7,984	370	378	412	502
Unpaid family workers	275	298	257	275	8	4	22	25
FULL- AND PART-TIME STATUS¹								
Full-time schedules	91,033	93,510	79,053	81,169	9,230	9,518	6,468	6,756
Part time for economic reasons	5,297	5,103	4,271	4,147	844	806	555	597
Part time for noneconomic reasons	15,975	16,165	14,493	14,558	1,089	1,152	748	778

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

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-61. Employed civilians of Mexican, Puerto Rican, and Cuban origin by selected social and economic categories

(In thousands)

Category	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988
CHARACTERISTIC								
Total (all civilian workers)	7,771	8,131	4,704	4,972	773	849	513	563
Men	4,673	4,903	2,938	3,135	439	499	305	332
Women	3,098	3,229	1,767	1,838	334	350	208	231
OCCUPATION								
Managerial and professional specialty	937	1,047	466	489	99	121	107	145
Executive, administrative, and managerial	491	588	236	272	50	71	65	93
Professional specialty	445	460	230	216	49	50	43	53
Technical, sales, and administrative support	2,024	2,041	1,086	1,085	232	265	172	195
Technicians and related support	137	142	70	69	13	15	10	9
Sales occupations	728	742	384	409	46	48	79	65
Administrative support, including clerical	1,159	1,157	633	606	173	202	83	120
Service occupations	1,356	1,477	789	882	147	147	68	52
Private household	122	135	62	82	-	2	6	2
Protective service	111	104	58	59	23	18	9	4
Service, except private household and protective	1,123	1,237	669	742	124	127	54	47
Precision production, craft, and repair	1,070	1,168	684	790	91	108	75	70
Mechanics and repairers	275	363	160	234	36	43	25	26
Construction trades	413	446	280	309	28	36	33	26
Other precision production, craft, and repair	383	360	245	247	28	29	16	18
Operators, fabricators, and laborers	1,838	1,962	1,198	1,327	186	200	86	98
Machine operators, assemblers, and inspectors	940	1,052	575	694	103	108	47	48
Transportation and material moving occupations	378	301	229	190	42	44	24	20
Handlers, equipment cleaners, helpers, and laborers	520	609	393	443	41	48	15	30
Construction laborers	119	120	96	103	4	3	1	2
Other handlers, equipment cleaners, helpers, and laborers	401	490	297	341	37	45	13	28
Farming, forestry, and fishing	548	436	480	400	17	7	5	3
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	408	340	370	316	16	5		
Self-employed workers	49	40	35	32		1	1	3
Unpaid family workers	8		8					
Nonagricultural industries:								
Wage and salary workers	6,873	7,224	4,060	4,343	725	807	472	488
Government	904	908	551	554	126	126	58	59
Private industries	5,969	6,316	3,509	3,789	599	681	413	430
Private households	150	157	80	99	-	2	6	2
Other industries	5,819	6,158	3,429	3,690	599	679	407	428
Self-employed workers	412	502	219	275	32	34	38	59
Unpaid family workers	22	25	13	6		2	2	12
FULL- AND PART-TIME STATUS²								
Full-time schedules	6,468	6,756	3,859	4,046	678	752	437	501
Part time for economic reasons	555	597	417	451	33	35	19	22
Part time for noneconomic reasons	748	778	429	476	62	62	57	41

¹ Includes persons of Central or South American origin and of other Hispanic origin, not shown separately.

² 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
QUARTERLY AVERAGES**

A-62. Employed civilians by sex, age, race, and Hispanic origin

(In thousands)

Sex and age	Total		White		Black		Hispanic origin	
	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988
Total, 16 years and over	112,305	114,778	97,816	99,875	11,163	11,477	7,771	8,131
16 to 19 years	6,659	6,861	5,973	6,116	546	583	481	506
16 to 17 years	2,702	2,734	2,458	2,455	185	213	151	189
18 to 19 years	3,957	4,128	3,515	3,661	360	370	330	317
20 to 24 years	13,539	13,258	11,818	11,565	1,371	1,321	1,248	1,374
25 years and over	92,107	94,659	80,025	82,193	9,246	9,573	6,042	6,251
25 to 54 years	77,621	80,061	67,132	69,156	7,966	8,320	5,471	5,598
55 years and over	14,486	14,598	12,894	13,037	1,280	1,252	571	653
Men, 16 years and over	62,125	63,445	54,749	55,763	5,609	5,815	4,673	4,903
16 to 19 years	3,402	3,579	3,046	3,159	289	331	256	282
16 to 17 years	1,415	1,446	1,281	1,290	104	121	75	93
18 to 19 years	1,986	2,133	1,764	1,869	185	210	181	189
20 to 24 years	7,113	6,991	6,224	6,124	709	678	774	831
25 years and over	51,611	52,875	45,479	46,481	4,612	4,805	3,642	3,789
25 to 54 years	43,054	44,331	37,780	38,803	3,927	4,117	3,313	3,415
55 years and over	8,557	8,544	7,700	7,678	685	687	330	374
Women, 16 years and over	50,180	51,333	43,068	44,111	5,554	5,662	3,098	3,229
16 to 19 years	3,258	3,283	2,927	2,958	257	252	225	224
16 to 17 years	1,287	1,288	1,177	1,166	81	92	76	96
18 to 19 years	1,971	1,995	1,751	1,792	176	159	149	128
20 to 24 years	6,426	6,267	5,595	5,441	663	643	474	543
25 years and over	40,497	41,784	34,546	35,712	4,634	4,768	2,399	2,461
25 to 54 years	34,567	35,730	29,352	30,353	4,039	4,203	2,158	2,183
55 years and over	5,930	6,054	5,194	5,359	595	565	241	278

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-63. Unemployment rates by sex, age, race, and Hispanic origin

(Civilian workers)

Sex and age	Total		White		Black		Hispanic origin	
	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988
Total, 16 years and over	6.2	5.4	5.3	4.5	13.3	12.2	8.5	8.7
16 to 19 years	17.8	15.9	15.2	13.6	38.3	34.1	20.8	26.8
16 to 17 years	21.6	18.7	19.1	16.3	43.6	38.7	30.2	32.1
18 to 19 years	15.0	14.0	12.2	11.8	35.1	31.1	15.6	23.2
20 to 24 years	10.2	8.9	8.3	6.9	23.6	22.9	11.4	10.5
25 years and over	4.6	4.0	4.0	3.4	9.3	8.6	6.7	6.5
25 to 54 years	4.8	4.2	4.2	3.6	9.9	9.1	7.0	6.3
55 years and over	3.3	3.0	3.0	2.7	5.4	5.3	4.3	7.5
Men, 16 years and over	6.3	5.3	5.4	4.5	13.5	12.1	8.6	8.5
16 to 19 years	18.5	16.0	16.0	13.8	36.8	31.7	23.1	26.2
16 to 17 years	22.1	18.3	19.6	16.0	42.1	36.4	34.0	32.9
18 to 19 years	15.8	14.3	13.3	12.2	33.4	28.7	17.4	22.3
20 to 24 years	10.4	8.8	8.7	6.9	22.7	23.3	11.3	10.2
25 years and over	4.7	4.0	4.1	3.5	9.7	8.4	6.7	6.5
25 to 54 years	4.9	4.2	4.3	3.6	10.3	9.0	6.9	6.2
55 years and over	3.6	3.2	3.3	2.9	6.3	5.1	5.4	9.0
Women, 16 years and over	6.1	5.5	5.1	4.6	13.2	12.3	8.4	9.0
16 to 19 years	17.1	15.9	14.3	13.4	39.8	37.0	18.0	27.5
16 to 17 years	21.1	19.0	18.5	16.5	45.4	41.4	26.0	31.3
18 to 19 years	14.2	13.7	11.1	11.3	36.8	34.1	13.3	24.5
20 to 24 years	10.0	9.0	7.9	7.0	24.6	22.4	11.6	10.9
25 years and over	4.5	4.1	3.8	3.4	9.0	8.8	6.8	6.4
25 to 54 years	4.7	4.3	4.0	3.5	9.6	9.2	7.1	6.5
55 years and over	2.9	2.7	2.5	2.4	4.3	5.5	2.8	5.4

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-64. Unemployed persons by duration of unemployment, race, and Hispanic origin

(Numbers in thousands)

Weeks of unemployment	Total		White		Black		Hispanic origin	
	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988
DURATION								
Total, 16 years and over	7,426	6,577	5,466	4,758	1,715	1,594	725	777
Less than 5 weeks	3,285	3,159	2,468	2,364	702	690	350	399
5 to 14 weeks	1,891	1,712	1,414	1,212	423	437	170	211
15 weeks and over	2,251	1,706	1,585	1,182	589	468	204	167
15 to 26 weeks	1,127	862	820	607	264	224	112	90
27 weeks and over	1,124	844	764	575	326	244	93	76
Average (mean) duration, in weeks	15.2	13.7	14.4	13.1	17.8	15.8	13.3	11.7
Median duration, in weeks	6.5	5.5	6.2	5.1	7.9	6.8	5.5	4.9
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	44.2	48.0	45.2	49.7	40.9	43.3	48.4	51.4
5 to 14 weeks	25.5	26.0	25.9	25.5	24.7	27.4	23.4	27.2
15 weeks and over	30.3	25.9	29.0	24.8	34.4	29.3	28.2	21.5
15 to 26 weeks	15.2	13.1	15.0	12.8	15.4	14.0	15.4	11.6
27 weeks and over	15.1	12.8	14.0	12.1	19.0	15.3	12.8	9.8

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-65. Unemployed persons by reason for unemployment, race, and Hispanic origin

(Numbers in thousands)

Reasons for unemployment	Total		White		Black		Hispanic origin	
	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988
NUMBER OF UNEMPLOYED								
Total, 16 years and over	7,426	6,577	5,466	4,758	1,715	1,594	725	777
Job losers	3,502	2,961	2,619	2,185	775	687	396	395
On layoff	838	736	673	603	151	114	61	77
Other job losers	2,664	2,225	1,946	1,582	625	574	335	318
Job leavers	862	866	702	671	133	174	70	94
Reentrants	2,006	1,785	1,417	1,265	509	451	159	161
New entrants	1,057	965	728	637	298	282	99	127
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	47.2	45.0	47.9	45.9	45.2	43.1	54.6	50.9
On layoff	11.3	11.2	12.3	12.7	8.8	7.1	8.4	10.0
Other job losers	35.9	33.8	35.6	33.2	36.4	36.0	46.2	41.0
Job leavers	11.6	13.2	12.8	14.1	7.7	10.9	9.7	12.1
Reentrants	27.0	27.1	25.9	26.6	29.7	28.3	22.0	20.7
New entrants	14.2	14.7	13.3	13.4	17.4	17.7	13.7	16.4
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	2.9	2.4	2.5	2.1	6.0	5.3	4.7	4.4
Job leavers .....	.7	.7	.7	.6	1.0	1.3	.8	1.1
Reentrants	1.7	1.5	1.4	1.2	3.9	3.4	1.9	1.8
New entrants .....	.9	.8	.7	.6	2.3	2.2	1.2	1.4

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-66. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	II 1987	II 1988	Total		Employed		Unemployed			
			II 1987	II 1988	II 1987	II 1988	Number		Percent of labor force	
							II 1987	II 1988	II 1987	II 1988
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,831	7,898	7,254	7,276	6,911	6,992	343	284	4.7	3.9
30 to 44 years	6,242	5,967	5,971	5,691	5,685	5,453	286	238	4.8	4.2
30 to 34 years	953	723	908	684	825	626	83	58	9.1	8.4
35 to 39 years	2,665	2,216	2,552	2,102	2,436	2,023	117	78	4.6	3.7
40 to 44 years	2,624	3,028	2,511	2,905	2,425	2,803	86	102	3.4	3.5
45 years and over	1,588	1,931	1,283	1,585	1,226	1,539	57	46	4.4	2.9
NONVETERANS										
Total, 30 to 44 years	19,329	20,286	18,250	19,110	17,420	18,341	830	769	4.5	4.0
30 to 34 years	8,808	9,040	8,407	8,543	8,000	8,171	407	372	4.8	4.4
35 to 39 years	6,144	6,756	5,774	6,398	5,533	6,161	241	237	4.2	3.7
40 to 44 years	4,377	4,490	4,069	4,169	3,887	4,009	182	159	4.5	3.8

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-67. Employment status of male Vietnam-era veterans and nonveterans by age, race, and Hispanic origin

(Numbers in thousands)

Employment status and age	Veterans						Nonveterans					
	White		Black		Hispanic origin		White		Black		Hispanic origin	
	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988	II 1987	II 1988
TOTAL, 30 to 44 years												
Civilian noninstitutional population	5,535	5,288	585	582	286	270	16,624	17,425	1,961	2,044	1,739	1,776
Civilian labor force	5,309	5,081	546	520	266	264	15,857	16,566	1,724	1,820	1,625	1,634
Employed	5,087	4,887	493	485	251	247	15,234	15,992	1,550	1,652	1,516	1,539
Unemployed	223	194	53	34	14	17	623	574	175	168	109	95
Unemployment rate	4.2	3.8	9.7	6.6	5.5	6.5	3.9	3.5	10.1	9.2	6.7	5.8
30 to 34 years												
Civilian noninstitutional population	801	597	127	113	56	52	7,596	7,811	904	932	777	779
Civilian labor force	764	569	118	102	50	50	7,321	7,450	812	838	728	720
Employed	699	528	103	87	44	44	7,012	7,161	730	761	674	680
Unemployed	65	41	15	15	6	6	309	289	82	77	54	40
Unemployment rate	8.5	7.3	12.3	14.6	(¹)	(¹)	4.2	3.9	10.1	9.2	7.4	5.5
35 to 39 years												
Civilian noninstitutional population	2,351	1,944	268	228	131	95	5,280	5,802	607	673	547	558
Civilian labor force	2,257	1,867	250	194	123	92	5,015	5,538	528	604	519	518
Employed	2,171	1,802	221	184	119	86	4,842	5,363	473	551	483	487
Unemployed	86	65	28	10	4	7	173	175	56	53	35	31
Unemployment rate	3.8	3.5	11.3	5.1	3.5	7.5	3.4	3.2	10.5	8.7	6.8	6.0
40 to 44 years												
Civilian noninstitutional population	2,383	2,747	191	241	99	123	3,748	3,812	450	439	415	440
Civilian labor force	2,288	2,645	178	223	92	122	3,521	3,578	384	378	378	396
Employed	2,217	2,557	168	214	88	117	3,380	3,467	347	340	358	371
Unemployed	72	88	10	9	4	4	142	111	37	38	20	24
Unemployment rate	3.1	3.3	5.8	4.2	4.3	3.4	4.0	3.1	9.7	10.2	5.3	6.1

¹ Data not shown where base is less than 60,000.

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

A-68. Unemployment in families by type of family, race, Hispanic origin, and presence of employed family members

(Numbers in thousands)

Type of family, race, and Hispanic origin	II 1987					II 1988				
	Total families	With unemployment:				Total families	With unemployment:			
		Total	Percent of families:				Total	Percent of families:		
			With no employed person in family	With at least one employed person in family	With at least one person in family employed full time			With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL										
Total families	64,001	5,770	28.7	71.3	62.3	64,249	4,951	27.7	72.3	63.2
With children under 18 years of age	31,890	3,499	30.8	69.2	60.3	31,485	2,962	31.1	68.9	59.9
Married-couple families	50,652	3,984	19.6	80.4	71.7	50,767	3,370	18.0	82.0	73.3
With children under 18 years of age	24,359	2,423	17.9	82.1	73.0	23,955	2,058	17.6	82.4	73.4
Families maintained by women	10,561	1,437	52.3	47.7	37.6	10,540	1,269	51.0	49.0	39.0
With children under 18 years of age	6,454	933	61.2	38.8	30.2	6,327	773	63.1	36.9	27.8
Families maintained by men	2,788	349	35.9	64.1	56.6	2,943	312	38.1	61.9	51.6
With children under 18 years of age	1,078	144	50.0	50.0	41.0	1,202	130	54.6	45.4	37.7
White										
Total families	55,167	4,326	25.7	74.3	65.2	55,317	3,677	23.8	76.2	66.7
With children under 18 years of age	26,626	2,588	26.1	73.9	64.7	26,323	2,165	25.7	74.3	64.9
Married-couple families	45,797	3,308	19.4	80.6	71.8	45,910	2,801	17.4	82.6	73.8
With children under 18 years of age	21,596	1,996	17.4	82.6	73.3	21,286	1,680	16.9	83.1	74.1
Families maintained by women	7,216	775	49.4	50.6	39.6	7,124	678	47.5	52.5	41.0
With children under 18 years of age	4,189	488	57.4	42.6	33.8	4,113	407	58.5	41.5	31.2
Families maintained by men	2,154	243	35.0	65.0	57.6	2,284	198	33.3	66.7	54.5
With children under 18 years of age	841	104	48.1	51.9	45.2	924	79	45.6	54.4	43.0
Black										
Total families	7,076	1,254	39.0	61.0	52.4	7,095	1,111	40.4	59.6	51.6
With children under 18 years of age	4,213	783	45.2	54.8	46.2	4,087	690	47.9	52.1	44.6
Married-couple families	3,485	539	19.1	80.9	72.4	3,458	462	20.3	79.7	71.6
With children under 18 years of age	1,920	328	18.0	82.0	73.5	1,822	301	20.3	79.7	71.4
Families maintained by women	3,065	623	56.3	43.7	35.0	3,102	551	55.5	44.5	36.3
With children under 18 years of age	2,099	421	65.8	34.2	26.1	2,026	341	69.5	30.5	23.2
Families maintained by men	526	92	37.6	62.4	52.7	535	98	50.0	50.0	41.8
With children under 18 years of age	194	34	(¹)	(¹)	(¹)	239	49	(¹)	(¹)	(¹)
Hispanic origin										
Total families	4,392	586	31.1	68.9	60.8	4,489	565	30.5	69.5	58.0
With children under 18 years of age	2,892	401	34.9	65.1	56.6	2,903	392	32.2	67.8	56.8
Married-couple families	3,091	397	23.2	76.8	68.8	3,165	411	22.4	77.6	66.2
With children under 18 years of age	2,072	279	24.0	76.0	67.0	2,082	305	22.0	78.0	65.8
Families maintained by women	1,025	138	53.2	46.8	38.1	971	114	56.5	43.5	31.3
With children under 18 years of age	722	96	61.5	38.5	32.3	690	70	67.1	32.9	25.7
Families maintained by men	275	51	(¹)	(¹)	(¹)	354	39	(¹)	(¹)	(¹)
With children under 18 years of age	98	26	(¹)	(¹)	(¹)	131	16	(¹)	(¹)	(¹)

¹ Data not shown where base is less than 60,000.

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-69. Unemployed persons by family relationship, race, Hispanic origin, and presence of employed family members

(Numbers in thousands)

Family relationship, race, and Hispanic origin	II 1987				II 1988			
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL								
Total unemployed in families ¹	6,259	31.2	68.8	59.9	5,409	29.7	70.3	61.1
Husbands	1,501	37.9	62.1	47.8	1,151	36.5	63.5	48.4
With children under 18 years of age	938	40.6	59.4	43.6	728	39.9	60.1	43.9
Wives	1,079	17.5	82.5	75.8	960	17.6	82.4	74.9
With children under 18 years of age	679	15.3	84.7	77.0	618	17.7	82.3	74.5
Relatives in married-couple families	1,720	11.7	88.3	83.3	1,535	9.7	90.3	85.3
Women who maintain families	611	85.6	14.4	9.8	534	83.2	16.8	9.4
With children under 18 years of age	526	92.2	7.8	4.7	462	88.6	11.4	4.4
Relatives in families maintained by women	981	33.6	66.4	53.3	880	31.6	68.4	56.9
Men who maintain families	144	64.2	35.8	24.4	149	64.0	36.0	25.5
With children under 18 years of age	82	84.4	15.6	6.3	75	87.4	12.6	1.2
Relatives in families maintained by men	223	21.7	78.3	73.2	201	25.5	74.5	65.4
White								
Total unemployed in families ¹	4,595	28.3	71.7	62.5	3,894	25.9	74.1	64.6
Husbands	1,260	38.5	61.5	46.6	966	36.0	64.0	48.3
With children under 18 years of age	767	41.3	58.7	41.8	591	39.5	60.5	43.8
Wives	894	16.7	83.3	76.6	781	15.7	84.3	77.1
With children under 18 years of age	548	14.1	85.9	78.4	484	15.9	84.1	76.5
Relatives in married-couple families	1,373	10.7	89.3	84.6	1,224	9.0	91.0	86.0
Women who maintain families	318	84.2	15.8	10.6	264	80.1	19.9	12.2
With children under 18 years of age	270	91.7	8.3	5.2	226	87.5	12.5	5.2
Relatives in families maintained by women	499	31.1	68.9	54.1	445	30.4	69.6	56.7
Men who maintain families	97	61.8	38.2	25.3	92	57.7	42.3	26.5
With children under 18 years of age	55	(²)	(²)	(²)	41	(²)	(²)	(²)
Relatives in families maintained by men	154	24.2	75.8	72.5	121	22.4	77.6	69.6
Black								
Total unemployed in families ¹	1,459	40.0	60.0	51.8	1,336	40.8	59.2	50.9
Husbands	180	33.0	67.0	54.4	143	39.0	61.0	51.7
With children under 18 years of age	120	34.6	65.4	52.4	107	41.6	58.4	48.1
Wives	150	19.9	80.1	74.2	142	28.6	71.4	61.0
With children under 18 years of age	102	19.2	80.8	73.7	105	28.7	71.3	60.9
Relatives in married-couple families	296	16.5	83.5	77.2	269	12.1	87.9	82.8
Women who maintain families	278	87.6	12.4	8.6	257	85.4	14.6	7.1
With children under 18 years of age	245	92.4	7.6	4.3	226	89.2	10.8	3.7
Relatives in families maintained by women	457	36.2	63.8	52.8	414	33.4	66.6	56.7
Men who maintain families	41	(²)	(²)	(²)	50	(²)	(²)	(²)
With children under 18 years of age	23	(²)	(²)	(²)	31	(²)	(²)	(²)
Relatives in families maintained by men	57	(²)	(²)	(²)	62	30.7	69.3	56.9
Hispanic origin								
Total unemployed in families ¹	632	33.9	66.1	58.6	646	32.7	67.3	55.9
Husbands	166	46.2	53.8	42.9	152	38.5	61.5	42.8
With children under 18 years of age	130	48.6	51.4	39.0	115	40.8	59.2	38.9
Wives	112	17.4	82.6	76.1	107	22.2	77.8	66.7
With children under 18 years of age	73	16.1	83.9	75.7	79	24.4	75.6	61.8
Relatives in married-couple families	156	10.0	90.0	87.2	206	14.5	85.5	77.9
Women who maintain families	61	84.8	15.2	13.8	42	(²)	(²)	(²)
With children under 18 years of age	55	(²)	(²)	(²)	38	(²)	(²)	(²)
Relatives in families maintained by women	87	37.5	62.5	49.3	94	43.4	56.6	44.3
Men who maintain families	22	(²)	(²)	(²)	23	(²)	(²)	(²)
With children under 18 years of age	16	(²)	(²)	(²)	11	(²)	(²)	(²)
Relatives in families maintained by men	28	(²)	(²)	(²)	23	(²)	(²)	(²)

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. Estimates 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.

² Data not shown where base is less than 60,000.

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-70. Employed civilians by family relationship, race, Hispanic origin, and presence of employed family members

(Numbers in thousands)

Family relationship, race, and Hispanic origin	II 1987			II 1988				
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed person in family	With another employed person in family	With another person in family employed full time		With no other employed person in family	With another employed person in family	With another person in family employed full time
TOTAL								
Total employed in families ¹	91,806	22.6	77.4	66.1	93,120	22.2	77.8	66.8
Husbands	38,314	29.8	70.2	51.9	38,669	29.3	70.7	52.8
With children under 18 years of age	22,368	31.4	68.6	47.0	22,139	31.2	68.8	47.4
Wives	27,252	8.8	91.2	86.3	27,670	8.1	91.9	87.1
With children under 18 years of age	14,962	5.2	94.8	90.7	14,840	4.6	95.4	91.3
Relatives in married-couple families	12,364	6.3	93.7	89.7	12,454	6.8	93.2	88.9
Women who maintain families	5,946	63.2	36.8	23.7	5,965	63.5	36.5	24.1
With children under 18 years of age	3,922	78.7	21.3	10.3	3,862	79.8	20.2	9.1
Relatives in families maintained by women	4,436	25.5	74.5	64.3	4,561	24.2	75.8	67.0
Men who maintain families	1,981	52.7	47.3	36.6	2,128	52.1	47.9	37.0
With children under 18 years of age	886	78.1	21.9	11.9	1,010	79.1	20.9	10.6
Relatives in families maintained by men	1,512	17.2	82.8	76.2	1,672	14.9	85.1	78.2
White								
Total employed in families ¹	80,355	22.0	78.0	66.4	81,492	21.6	78.4	67.1
Husbands	34,723	30.2	69.8	50.9	35,028	29.7	70.3	51.7
With children under 18 years of age	20,023	31.9	68.1	45.3	19,846	31.9	68.1	45.6
Wives	24,364	8.5	91.5	86.8	24,719	7.9	92.1	87.5
With children under 18 years of age	13,147	4.6	95.4	91.4	13,046	4.2	95.8	91.8
Relatives in married-couple families	11,057	6.1	93.9	90.0	11,089	6.7	93.3	89.2
Women who maintain families	4,225	60.7	39.3	24.6	4,247	61.2	38.8	25.6
With children under 18 years of age	2,753	77.4	22.6	9.8	2,712	78.7	21.3	9.3
Relatives in families maintained by women	3,259	26.2	73.8	63.5	3,383	24.1	75.9	67.2
Men who maintain families	1,562	52.7	47.3	36.2	1,708	51.1	48.9	38.0
With children under 18 years of age	710	77.6	22.4	10.8	812	78.2	21.8	11.0
Relatives in families maintained by men	1,165	16.8	83.2	76.4	1,317	14.4	85.6	79.2
Black								
Total employed in families ¹	8,710	29.2	70.8	62.1	8,789	28.6	71.4	62.7
Husbands	2,538	24.2	75.8	63.8	2,568	23.9	76.1	65.9
With children under 18 years of age	1,642	23.8	76.2	64.1	1,588	22.9	77.1	66.8
Wives	2,045	12.9	87.1	81.2	2,056	11.0	89.0	83.1
With children under 18 years of age	1,273	9.4	90.6	85.0	1,241	7.7	92.3	87.1
Relatives in married-couple families	928	7.7	92.3	87.0	955	8.5	91.5	85.7
Women who maintain families	1,558	70.8	29.2	20.7	1,551	70.2	29.8	19.4
With children under 18 years of age	1,076	82.2	17.8	10.9	1,052	82.3	17.7	8.8
Relatives in families maintained by women	1,027	24.9	75.1	65.1	1,045	25.4	74.6	64.9
Men who maintain families	339	54.1	45.9	36.9	337	57.2	42.8	33.1
With children under 18 years of age	144	81.2	18.8	17.1	173	82.9	17.1	8.7
Relatives in families maintained by men	276	20.4	79.6	73.9	277	17.9	82.1	73.7
Hispanic origin								
Total employed in families ¹	6,220	25.7	74.3	64.8	6,570	25.2	74.8	64.6
Husbands	2,455	35.8	64.2	50.5	2,554	37.5	62.5	48.6
With children under 18 years of age	1,813	38.0	62.0	47.1	1,824	41.3	58.7	43.2
Wives	1,576	8.6	91.4	85.7	1,594	8.3	91.7	84.7
With children under 18 years of age	1,085	7.0	93.0	87.0	998	7.1	92.9	86.5
Relatives in married-couple families	966	6.3	93.7	88.2	1,033	6.3	93.7	85.7
Women who maintain families	458	65.9	34.1	23.5	446	65.0	35.0	27.0
With children under 18 years of age	315	77.8	22.2	12.7	296	78.2	21.8	13.8
Relatives in families maintained by women	388	26.9	73.1	60.6	366	23.1	76.9	64.0
Men who maintain families	203	47.5	52.5	48.1	279	40.2	59.8	52.3
With children under 18 years of age	71	76.6	23.4	18.8	110	69.7	30.3	25.5
Relatives in families maintained by men	175	9.3	90.7	84.6	297	4.4	95.6	89.9

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. Estimates 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.

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-71. Median weekly earnings of families by type of family, number of earners, race, and Hispanic origin

Type of family, number of earners, race, and Hispanic origin	Number of families (in thousands)		Median weekly earnings	
	II 1987	II 1988	II 1987	II 1988
TOTAL				
Total families with earners ¹	42,634	42,637	\$572	\$597
Married-couple families	33,742	33,839	639	668
One earner	12,574	12,400	405	418
Husband	9,649	9,532	476	490
Wife	2,250	2,121	223	232
Other family member	675	747	216	236
Two or more earners	21,167	21,439	767	809
Husband and wife	18,452	18,976	779	820
Husband and other family member(s)	1,987	1,806	752	804
Wife and other family member(s)	556	465	531	466
Other family members only	173	192	433	507
Families maintained by women	6,832	6,679	313	330
One earner	4,744	4,592	256	258
Householder	3,753	3,645	267	267
Other family member	991	947	209	224
Two or more earners	2,089	2,087	511	559
Families maintained by men	2,060	2,119	467	493
One earner	1,261	1,209	346	379
Two or more earners	799	910	655	713
White				
Total families with earners ¹	36,486	36,570	593	616
Married-couple families	30,082	30,173	648	676
One earner	11,357	11,207	415	433
Husband	8,836	8,743	484	498
Wife	1,930	1,814	227	237
Two or more earners	18,725	18,966	775	813
Husband and wife	16,305	16,766	787	823
Families maintained by women	4,836	4,725	326	349
Families maintained by men	1,568	1,671	474	505
Black				
Total families with earners ¹	4,922	4,828	411	432
Married-couple families	2,719	2,734	536	583
One earner	906	859	295	292
Husband	596	565	338	324
Wife	251	230	191	202
Two or more earners	1,813	1,875	673	736
Husband and wife	1,600	1,682	687	766
Families maintained by women	1,802	1,740	273	278
Families maintained by men	401	354	428	410
Hispanic origin				
Total families with earners ¹	3,192	3,351	425	447
Married-couple families	2,424	2,571	473	489
One earner	983	1,081	295	304
Husband	806	903	311	311
Wife	106	127	206	259
Two or more earners	1,440	1,490	605	662
Husband and wife	1,180	1,237	616	690
Families maintained by women	568	479	295	291
Families maintained by men	201	301	391	392

¹ Data exclude families in which there is no wage or salary earner or in which the husband, wife, or other person maintaining the family is either self-employed or in the Armed Forces.

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-72. Families with unemployed members and wage and salary workers by type of family and median weekly earnings

Type of family and relationship of unemployed members to wage and salary earners	Number of families (in thousands)		Median weekly earnings	
	II 1987	II 1988	II 1987	II 1988
Married-couple families ¹	2,663	2,405	\$436	\$455
Husband unemployed	861	680	258	252
Wife only earner	648	520	232	232
Wife and other earner(s)	145	93	505	(²)
Other earner(s) only	68	67	(²)	(²)
Wife unemployed	771	708	419	398
Husband only earner	640	592	389	356
Husband and other earner(s)	117	102	692	709
Other earner(s) only	14	13	(²)	(²)
Other member(s) unemployed	1,032	1,017	684	696
Husband or wife earner	415	406	518	598
Both husband and wife earners	590	577	813	777
Other combinations of earners	27	34	(²)	(²)
Families maintained by women ¹	623	567	279	283
Householder unemployed	78	78	(²)	(²)
Other member(s) unemployed	545	489	286	310
Families maintained by men ¹	212	158	357	321

¹ Data exclude families in which there is no wage or salary earner or in which the husband, wife, or other person maintaining the family is

either self-employed or in the Armed Forces.

² Data not shown where base is less than 100,000.

A-73. Median weekly earnings of full-time wage and salary workers by selected characteristics

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	II 1987	II 1988	II 1987	II 1988
SEX AND AGE				
Total, 16 years and over	80,682	82,731	\$371	\$382
Men, 16 years and over	47,103	48,211	427	445
16 to 24 years	6,752	6,817	256	259
25 years and over	40,351	41,394	471	487
Women, 16 years and over	33,579	34,520	302	314
16 to 24 years	5,474	5,306	227	230
25 years and over	28,105	29,213	321	333
FAMILY RELATIONSHIP				
Husbands	30,871	31,127	484	499
Wives	17,608	17,903	311	323
Women who maintain families	4,627	4,583	301	308
Men who maintain families	1,643	1,682	394	405
Other persons in families:				
Men	6,158	6,637	258	263
Women	4,283	4,431	239	244
All other men ¹	8,424	8,759	399	412
All other women ¹	7,068	7,609	329	344
RACE AND HISPANIC ORIGIN				
White	69,380	71,025	381	391
Men	41,242	42,053	442	462
Women	28,138	28,972	306	317
Black	8,842	9,234	301	315
Men	4,563	4,794	324	349
Women	4,278	4,441	273	287
Hispanic origin	6,095	6,256	288	292
Men	3,899	4,011	303	308
Women	2,195	2,244	263	263

¹ The majority of these persons are living alone or with nonrelatives. Also included are persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies.

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-74. Median weekly earnings of part-time wage and salary workers by selected characteristics

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	II 1987	II 1988	II 1987	II 1988
SEX AND AGE				
Total, 16 years and over	18,466	18,413	\$100	\$104
Men, 16 years and over	5,796	5,849	92	97
16 to 24 years	3,328	3,313	77	83
25 years and over	2,468	2,536	120	123
Women, 16 years and over	12,669	12,563	103	108
16 to 24 years	4,041	4,064	73	78
25 years and over	8,628	8,499	119	127
FAMILY RELATIONSHIP				
Husbands	1,473	1,557	125	122
Wives	6,617	6,583	121	130
Women who maintain families	1,027	974	115	112
Men who maintain families	128	154	113	126
Other persons in families:				
Men	3,283	3,131	77	81
Women	3,541	3,491	69	75
All other men ¹	912	1,006	113	122
All other women ¹	1,484	1,515	106	111
RACE AND HISPANIC ORIGIN				
White	16,082	16,033	101	105
Men	4,891	4,891	92	97
Women	11,191	11,141	105	109
Black	1,857	1,788	92	99
Men	715	710	92	95
Women	1,142	1,077	91	102
Hispanic origin	1,085	1,225	96	101
Men	383	438	94	105
Women	702	787	97	98

¹ The majority of these persons are living alone or with nonrelatives. Also included are persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies.

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-75. Median weekly earnings of full-time wage and salary workers by occupation and sex

Occupation and sex	Number of workers (in thousands)		Median weekly earnings	
	II 1987	II 1988	II 1987	II 1988
TOTAL				
Managerial and professional specialty	20,503	21,546	\$516	\$543
Executive, administrative, and managerial	9,978	10,592	522	533
Professional specialty	10,526	10,954	512	550
Technical, sales, and administrative support	24,517	24,955	329	345
Technicians and related support	2,697	2,943	431	447
Sales occupations	7,455	7,730	382	385
Administrative support, including clerical	14,365	14,283	305	317
Service occupations	8,442	8,680	234	243
Private household	368	327	121	129
Protective service	1,708	1,734	403	400
Service, except private household and protective	6,367	6,618	217	226
Precision production, craft, and repair	10,993	11,331	418	430
Mechanics and repairers	3,866	4,105	428	448
Construction trades	3,615	3,672	410	416
Other precision production, craft, and repair	3,512	3,554	416	423
Operators, fabricators, and laborers	14,693	14,700	312	317
Machine operators, assemblers, and inspectors	7,311	7,388	299	309
Transportation and material moving occupations	3,870	3,885	381	386
Handlers, equipment cleaners, helpers, and laborers	3,512	3,428	281	273
Farming, forestry, and fishing	1,533	1,518	212	221
Men				
Managerial and professional specialty	11,225	11,807	632	662
Executive, administrative, and managerial	5,983	6,178	638	682
Professional specialty	5,242	5,629	626	643
Technical, sales, and administrative support	9,099	9,263	445	475
Technicians and related support	1,478	1,661	495	504
Sales occupations	4,546	4,524	479	491
Administrative support, including clerical	3,075	3,079	388	421
Service occupations	4,214	4,372	306	287
Private household	10	14	(¹)	(¹)
Protective service	1,537	1,579	412	406
Service, except private household and protective	2,667	2,779	256	252
Precision production, craft, and repair	10,130	10,375	430	445
Mechanics and repairers	3,727	3,935	425	449
Construction trades	3,568	3,612	412	417
Other precision production, craft, and repair	2,835	2,828	462	472
Operators, fabricators, and laborers	11,057	11,054	347	355
Machine operators, assemblers, and inspectors	4,433	4,527	360	371
Transportation and material moving occupations	3,654	3,652	389	392
Handlers, equipment cleaners, helpers, and laborers	2,970	2,875	293	285
Farming, forestry, and fishing	1,379	1,340	212	228
Women				
Managerial and professional specialty	9,278	9,739	435	459
Executive, administrative, and managerial	3,995	4,415	416	419
Professional specialty	5,283	5,324	449	483
Technical, sales, and administrative support	15,418	15,692	293	304
Technicians and related support	1,219	1,282	370	383
Sales occupations	2,909	3,206	252	268
Administrative support, including clerical	11,290	11,204	292	303
Service occupations	4,228	4,308	197	210
Private household	357	313	118	126
Protective service	171	155	288	340
Service, except private household and protective	3,700	3,840	201	213
Precision production, craft, and repair	864	956	294	311
Mechanics and repairers	140	170	483	396
Construction trades	46	59	(¹)	(¹)
Other precision production, craft, and repair	678	726	279	293
Operators, fabricators, and laborers	3,636	3,646	235	236
Machine operators, assemblers, and inspectors	2,878	2,861	228	237
Transportation and material moving occupations	217	232	283	274
Handlers, equipment cleaners, helpers, and laborers	542	553	246	218
Farming, forestry, and fishing	154	178	215	186

¹ Data not shown where base is less than 100,000.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-76. Employment status of the civilian noninstitutional population in metropolitan, nonmetropolitan, urban, and rural areas by sex, age, race, and Hispanic origin

(Numbers in thousands)

Employment status, sex, age, race, and Hispanic origin	Total United States		Metropolitan areas					
	1987	1988	Total		Central cities		Suburbs	
			1987	1988	1987	1988	1987	1988
TOTAL								
Civilian noninstitutional population	182,527	184,389	142,030	143,512	56,863	57,216	85,167	86,296
Civilian labor force	119,732	121,355	94,546	95,843	36,554	36,926	57,992	58,916
Percent of population	65.6	65.8	66.6	66.8	64.3	64.5	68.1	68.3
Employed	112,305	114,778	88,869	90,801	33,790	34,403	55,078	56,397
Unemployed	7,426	6,577	5,677	5,042	2,764	2,523	2,913	2,519
Unemployment rate	6.2	5.4	6.0	5.3	7.6	6.8	5.0	4.3
Not in labor force	62,795	63,034	47,484	47,670	20,308	20,290	27,175	27,380
Men, 20 years and over								
Civilian noninstitutional population	79,466	80,418	61,801	62,539	24,377	24,616	37,424	37,923
Civilian labor force	62,103	62,757	48,897	49,432	18,722	18,898	30,176	30,534
Percent of population	78.2	78.0	79.1	79.0	76.8	76.8	80.6	80.5
Employed	58,724	59,866	46,299	47,208	17,409	17,749	28,889	29,460
Unemployed	3,380	2,891	2,599	2,223	1,313	1,149	1,286	1,074
Unemployment rate	5.4	4.6	5.3	4.5	7.0	6.1	4.3	3.5
Not in labor force	17,362	17,661	12,904	13,107	5,656	5,718	7,248	7,389
Women, 20 years and over								
Civilian noninstitutional population	88,468	89,397	68,904	69,672	28,233	28,333	40,671	41,339
Civilian labor force	49,524	50,437	39,317	40,076	15,664	15,857	23,653	24,218
Percent of population	56.0	56.4	57.1	57.5	55.5	56.0	58.2	58.6
Employed	46,923	48,051	37,322	38,257	14,693	14,926	22,629	23,331
Unemployed	2,602	2,386	1,995	1,818	971	931	1,024	887
Unemployment rate	5.3	4.7	5.1	4.5	6.2	5.9	4.3	3.7
Not in labor force	38,944	38,960	29,587	29,596	12,569	12,476	17,018	17,121
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,593	14,574	11,325	11,301	4,253	4,267	7,072	7,034
Civilian labor force	8,104	8,161	6,332	6,335	2,169	2,171	4,163	4,164
Percent of population	55.5	56.0	55.9	56.1	51.0	50.9	58.9	59.2
Employed	6,659	6,861	5,248	5,335	1,688	1,729	3,560	3,606
Unemployed	1,444	1,300	1,084	1,000	481	443	603	557
Unemployment rate	17.8	15.9	17.1	15.8	22.2	20.4	14.5	13.4
Not in labor force	6,489	6,413	4,993	4,966	2,084	2,096	2,909	2,870
White								
Civilian noninstitutional population	156,806	158,048	120,629	121,454	42,573	42,778	78,056	78,676
Civilian labor force	103,283	104,633	80,634	81,524	27,663	27,902	52,970	53,621
Percent of population	65.9	66.2	66.8	67.1	65.0	65.2	67.9	68.2
Employed	97,816	99,875	76,564	77,957	26,071	26,427	50,493	51,529
Unemployed	5,466	4,758	4,070	3,567	1,593	1,475	2,477	2,092
Unemployment rate	5.3	4.5	5.0	4.4	5.8	5.3	4.7	3.9
Not in labor force	53,523	53,415	39,996	39,930	14,910	14,876	25,086	25,055
Black								
Civilian noninstitutional population	20,310	20,651	16,744	17,090	11,860	11,924	4,884	5,166
Civilian labor force	12,878	13,071	10,787	11,069	7,323	7,377	3,464	3,692
Percent of population	63.4	63.3	64.4	64.8	61.7	61.9	70.9	71.5
Employed	11,163	11,477	9,363	9,762	6,257	6,418	3,106	3,344
Unemployed	1,715	1,594	1,424	1,307	1,066	959	358	348
Unemployment rate	13.3	12.2	13.2	11.8	14.6	13.0	10.3	9.4
Not in labor force	7,433	7,580	5,957	6,021	4,538	4,547	1,419	1,474
Hispanic origin								
Civilian noninstitutional population	12,809	13,268	11,898	12,372	6,922	7,231	4,976	5,142
Civilian labor force	8,496	8,908	7,878	8,280	4,431	4,686	3,447	3,594
Percent of population	66.3	67.1	66.2	66.9	64.0	64.8	69.3	69.9
Employed	7,771	8,131	7,226	7,583	4,029	4,251	3,197	3,332
Unemployed	725	777	652	697	402	435	250	262
Unemployment rate	8.5	8.7	8.3	8.4	9.1	9.3	7.2	7.3
Not in labor force	4,313	4,360	4,020	4,093	2,491	2,545	1,529	1,548

HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES

A-76. Employment status of the civilian noninstitutional population in metropolitan, nonmetropolitan, urban, and rural areas by sex, age, race, and Hispanic origin—Continued

(Numbers in thousands)

Employment status, sex, age, race, and Hispanic origin	Nonmetropolitan areas						Urban areas		Rural areas	
	Total		Farm		Nonfarm		1987	1988	1987	1988
	1987	1988	1987	1988	1987	1988				
TOTAL										
Civilian noninstitutional population	40,497	40,877	3,037	2,920	37,460	37,957	134,316	135,653	48,211	48,736
Civilian labor force	25,186	25,513	2,127	2,055	23,059	23,458	88,673	89,853	31,059	31,503
Percent of population	62.2	62.4	70.0	70.4	61.6	61.8	66.0	66.2	64.4	64.6
Employed	23,437	23,978	2,077	2,017	21,359	21,960	83,120	84,882	29,185	29,897
Unemployed	1,749	1,535	50	37	1,699	1,498	5,553	4,971	1,874	1,606
Unemployment rate	6.9	6.0	2.3	1.8	7.4	6.4	6.3	5.5	6.0	5.1
Not in labor force	15,311	15,364	910	865	14,401	14,499	45,643	45,801	17,152	17,233
Men, 20 years and over										
Civilian noninstitutional population	17,653	17,865	1,446	1,394	16,207	16,471	57,790	58,594	21,664	21,810
Civilian labor force	13,201	13,314	1,228	1,170	11,973	12,144	45,355	45,949	16,743	16,796
Percent of population	74.8	74.5	84.9	84.0	73.9	73.7	78.5	78.4	77.3	77.0
Employed	12,419	12,646	1,211	1,156	11,207	11,491	42,848	43,739	15,869	16,116
Unemployed	782	668	17	15	765	653	2,507	2,211	874	680
Unemployment rate	5.9	5.0	1.4	1.3	6.4	5.4	5.5	4.8	5.2	4.1
Not in labor force	4,452	4,551	218	223	4,234	4,328	12,435	12,645	4,921	5,013
Women, 20 years and over										
Civilian noninstitutional population	19,576	19,739	1,327	1,262	18,249	18,477	65,945	66,628	22,535	22,783
Civilian labor force	10,213	10,373	736	714	9,477	9,659	37,419	38,088	12,110	12,360
Percent of population	52.2	52.5	55.5	56.6	51.9	52.3	56.7	57.2	53.7	54.3
Employed	9,607	9,805	718	705	8,889	9,100	35,444	36,288	11,485	11,774
Unemployed	606	568	18	9	588	559	1,976	1,800	625	586
Unemployment rate	5.9	5.5	2.5	1.3	6.2	5.8	5.3	4.7	5.2	4.7
Not in labor force	9,363	9,366	591	548	8,772	8,819	28,526	28,539	10,424	10,423
Both sexes, 16 to 19 years										
Civilian noninstitutional population	3,288	3,273	263	264	3,005	3,009	10,580	10,432	4,013	4,143
Civilian labor force	1,772	1,826	163	170	1,609	1,656	5,898	5,815	2,205	2,346
Percent of population	54.2	55.8	61.9	64.5	53.5	55.0	55.8	55.7	55.0	56.6
Employed	1,411	1,526	148	157	1,263	1,369	4,829	4,855	1,831	2,007
Unemployed	361	300	15	13	346	287	1,070	961	375	339
Unemployment rate	20.4	16.4	9.2	7.7	21.5	17.3	18.1	16.5	17.0	14.5
Not in labor force	1,496	1,447	100	94	1,396	1,353	4,682	4,616	1,807	1,797
White										
Civilian noninstitutional population	36,176	36,594	2,921	2,839	33,256	33,755	112,277	112,898	44,529	45,149
Civilian labor force	22,649	23,109	2,045	2,002	20,604	21,107	74,455	75,230	28,828	29,403
Percent of population	62.6	63.2	70.0	70.5	62.0	62.5	66.3	66.6	64.7	65.1
Employed	21,253	21,916	2,002	1,989	19,251	19,949	70,587	71,837	27,229	28,037
Unemployed	1,397	1,191	44	33	1,353	1,158	3,867	3,392	1,599	1,366
Unemployment rate	6.2	5.2	2.1	1.7	6.6	5.5	5.2	4.5	5.5	4.6
Not in labor force	13,527	13,485	875	837	12,652	12,648	37,822	37,669	15,701	15,746
Black										
Civilian noninstitutional population	3,566	3,561	101	63	3,466	3,499	17,373	17,722	2,938	2,930
Civilian labor force	2,091	2,003	68	42	2,022	1,981	11,108	11,344	1,770	1,728
Percent of population	58.6	56.2	67.6	66.3	58.4	56.0	63.9	64.0	60.2	59.0
Employed	1,800	1,715	62	38	1,737	1,677	9,606	9,941	1,557	1,536
Unemployed	291	288	6	3	285	284	1,501	1,402	213	192
Unemployment rate	13.9	14.4	8.3	(¹)	14.1	14.5	13.5	12.4	12.1	11.1
Not in labor force	1,476	1,559	33	21	1,443	1,538	6,265	6,378	1,168	1,202
Hispanic origin										
Civilian noninstitutional population	911	896	64	44	847	851	11,829	12,256	980	1,013
Civilian labor force	618	628	50	35	568	594	7,828	8,194	668	714
Percent of population	67.6	70.2	79.0	(¹)	67.0	69.7	66.2	66.9	68.2	70.5
Employed	545	548	47	33	498	515	7,172	7,489	600	643
Unemployed	73	60	3	2	70	78	656	705	68	71
Unemployment rate	11.8	12.7	(¹)	(¹)	12.3	13.2	8.4	8.6	10.2	10.0
Not in labor force	293	267	13	10	279	256	4,001	4,061	312	299

¹ Data not shown where base is less than 60,000.

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. These data are based on 1980 census designations and are not comparable to data published through the first quarter of 1984.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-77. Employment status of the civilian noninstitutional population in poverty and nonpoverty areas by race and Hispanic origin

(Numbers in thousands)

Employment status, race, and Hispanic origin	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
TOTAL												
Civilian noninstitutional population	27,687	27,536	154,840	156,854	18,477	18,174	123,553	125,338	9,209	9,362	31,288	31,515
Civilian labor force	15,656	15,640	104,076	105,715	10,332	10,244	84,214	85,598	5,324	5,396	19,862	20,117
Percent of population	56.5	56.8	67.2	67.4	55.9	56.4	68.2	68.3	57.8	57.6	63.5	63.8
Employed	13,867	13,953	98,439	100,826	9,050	9,041	79,819	81,760	4,817	4,912	18,620	19,066
Unemployed	1,789	1,688	5,637	4,890	1,282	1,204	4,395	3,838	507	484	1,242	1,052
Unemployment rate	11.4	10.8	5.4	4.6	12.4	11.8	5.2	4.5	9.5	9.0	6.3	5.2
Men, 20 years and over	10.3	9.5	4.7	3.9	11.3	10.8	4.6	3.8	8.4	7.3	5.2	4.4
Women, 20 years and over	9.8	9.7	4.6	4.0	10.7	10.3	4.4	3.8	7.9	8.4	5.4	4.7
Both sexes, 16 to 19 years	30.8	27.4	15.9	14.2	31.4	28.4	15.3	14.2	29.7	25.4	18.2	14.2
Men	30.4	26.3	16.8	14.4	31.3	28.8	16.6	14.7	28.4	21.9	17.3	13.2
Women	31.3	28.6	15.0	14.1	31.5	28.0	14.0	13.8	31.0	29.9	19.2	15.3
Not in labor force	12,031	11,896	50,764	51,138	8,145	7,930	39,338	39,740	3,885	3,966	11,426	11,398
White												
Civilian noninstitutional population	16,746	16,562	140,060	141,486	10,082	9,782	110,548	111,672	6,664	6,780	29,512	29,814
Civilian labor force	9,670	9,705	93,613	94,927	5,754	5,661	74,880	75,863	3,916	4,044	18,733	19,065
Percent of population	57.7	58.6	66.8	67.1	57.1	57.9	67.7	67.9	58.8	59.6	63.5	63.9
Employed	8,852	8,938	88,965	90,936	5,214	5,147	71,350	72,810	3,638	3,791	17,615	18,126
Unemployed	818	767	4,648	3,991	541	514	3,529	3,053	278	253	1,119	938
Unemployment rate	8.5	7.9	5.0	4.2	9.4	9.1	4.7	4.0	7.1	6.3	6.0	4.9
Men, 20 years and over	7.9	7.1	4.4	3.6	8.5	8.4	4.2	3.4	6.9	5.3	5.0	4.1
Women, 20 years and over	7.0	6.7	4.1	3.6	8.3	7.6	3.9	3.4	5.0	5.5	5.1	4.4
Both sexes, 16 to 19 years	22.2	20.8	14.5	12.9	22.4	22.2	13.6	12.8	21.9	18.6	17.8	13.1
Men	23.5	20.4	15.2	13.1	25.0	23.1	14.8	13.3	20.7	16.6	16.8	12.5
Women	20.7	21.2	13.7	12.7	19.0	21.2	12.4	12.4	23.1	21.3	18.9	13.8
Not in labor force	7,076	6,856	46,447	46,559	4,327	4,121	35,668	35,810	2,748	2,736	10,779	10,749
Black												
Civilian noninstitutional population	9,907	9,907	10,403	10,745	7,713	7,643	9,031	9,447	2,194	2,263	1,372	1,298
Civilian labor force	5,410	5,357	7,468	7,715	4,202	4,176	6,586	6,893	1,208	1,181	882	821
Percent of population	54.6	54.1	71.8	71.8	54.5	54.6	72.9	73.0	55.1	52.2	64.3	63.3
Employed	4,507	4,510	6,656	6,967	3,492	3,524	5,871	6,238	1,015	985	784	730
Unemployed	903	847	812	747	709	651	714	655	193	196	98	92
Unemployment rate	16.7	15.8	10.9	9.7	16.9	15.6	10.8	9.5	16.0	16.6	11.1	11.2
Men, 20 years and over	15.2	14.2	9.2	8.2	16.2	14.9	9.3	7.9	11.9	12.2	8.9	10.0
Women, 20 years and over	14.0	14.0	9.2	8.2	13.7	13.3	9.0	8.2	15.2	16.9	10.9	8.1
Both sexes, 16 to 19 years	45.0	39.6	33.3	30.4	43.6	37.8	34.3	29.1	49.9	45.7	26.3	(¹)
Men	43.0	37.1	32.9	28.2	41.4	37.5	34.1	27.8	(¹)	(¹)	(¹)	(¹)
Women	46.8	42.5	33.8	33.1	45.6	38.3	34.6	30.7	(¹)	(¹)	(¹)	(¹)
Not in labor force	4,497	4,550	2,936	3,030	3,511	3,468	2,446	2,554	986	1,082	490	477
Hispanic origin												
Civilian noninstitutional population	4,516	4,660	8,293	8,608	4,132	4,303	7,766	8,070	384	357	527	539
Civilian labor force	2,659	2,791	5,837	6,117	2,419	2,554	5,459	5,726	240	237	378	391
Percent of population	58.9	59.9	70.4	71.1	58.6	59.4	70.3	71.0	62.4	66.5	71.8	72.5
Employed	2,370	2,460	5,401	5,672	2,168	2,256	5,058	5,327	203	204	343	344
Unemployed	289	332	436	445	252	298	400	399	37	33	36	47
Unemployment rate	10.9	11.9	7.5	7.3	10.4	11.7	7.3	7.0	15.4	14.1	9.4	11.9
Men, 20 years and over	9.6	10.1	6.6	5.8	9.0	10.0	6.5	5.6	15.4	11.1	8.6	9.5
Women, 20 years and over	10.3	10.7	6.5	5.7	10.0	10.4	6.4	5.3	12.7	13.7	7.8	11.1
Both sexes, 16 to 19 years	21.3	28.5	20.4	25.9	21.2	28.1	20.1	25.2	(¹)	(¹)	(¹)	(¹)
Men	20.9	26.3	24.5	26.1	20.7	25.2	24.6	26.0	(¹)	(¹)	(¹)	(¹)
Women	21.9	31.2	15.9	25.6	22.1	31.6	14.9	24.2	(¹)	(¹)	(¹)	(¹)
Not in labor force	1,857	1,868	2,456	2,492	1,713	1,749	2,308	2,344	144	119	148	148

¹ Data not shown where base is less than 60,000.

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. These data are based on 1980 census designations and are not comparable to data published through the first quarter of 1984.

**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				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Total		102,268	102,910	105,159	105,969	106,709					
Total private		84,965	85,861	87,505	88,273	89,346	68,819	69,593	70,717	71,381	72,306
Mining		712	721	729	733	743	506	514	525	529	536
Metal mining	10	43.0	44.0	47.8	48.9		32.8	33.3	36.9	37.6	
Iron ores	101	6.7	6.7	7.0	7.1		5.1	5.0	5.6	5.7	
Copper ores	102	13.0	13.3	14.5	14.6		10.5	10.6	11.4	11.4	
Coal mining	11,12	162.8	162.3	154.0	153.2		132.5	132.2	125.6	124.5	
Bituminous coal and lignite mining	12	160.6	160.2	152.0	151.2		130.6	130.5	123.9	122.8	
Oil and gas extraction	13	393.8	400.5	414.9	416.8	422.1	254.0	260.5	276.9	279.4	
Crude petroleum, natural gas, and natural gas liquids ...	131,2	202.9	204.3	199.9	199.5	-	99.9	101.0	100.3	100.5	
Oil and gas field services	138	190.9	196.2	215.0	217.3		154.1	159.5	176.6	178.9	
Nonmetallic minerals, except fuels	14	112.5	113.9	112.0	114.3		87.0	88.0	85.7	87.9	
Crushed and broken stone	142	41.0	41.3	41.2	42.2		33.0	33.0	32.4	33.4	
Sand and gravel	144	35.4	36.3	34.4	35.5		-	-	-	-	
Chemical and fertilizer minerals	147	16.9	16.6	17.1	17.1		-	-	-	-	
Construction		5,012	5,176	5,081	5,290	5,495	3,919	4,064	3,944	4,140	4,326
General building contractors	15	1,311.3	1,358.6	1,348.0	1,389.8	1,449.3	954.8	996.3	976.6	1,014.9	
Residential building construction	152	694.5	721.9	722.6	751.9	-	491.8	515.6	511.6	538.2	
Operative builders	153	55.7	57.8	53.0	53.1		28.7	29.6	24.7	24.9	
Nonresidential building construction	154	561.1	578.9	572.4	584.8		434.3	451.1	440.3	451.8	
Heavy construction contractors	16	803.2	821.2	758.9	807.9		676.5	694.1	633.9	682.7	
Highway and street construction	161	297.3	312.1	271.4	304.2		251.4	265.3	223.3	255.4	
Heavy construction, except highway	162	505.9	509.1	487.5	503.7		425.1	428.8	410.6	427.3	
Special trade contractors	17	2,897.5	2,996.3	2,973.7	3,092.6		2,287.4	2,373.2	2,333.0	2,441.9	
Plumbing, heating, and air conditioning	171	625.6	643.5	640.2	653.9		461.5	477.3	470.2	482.6	
Painting, paper hanging, and decorating	172	175.6	184.4	167.8	179.7		147.8	156.5	139.0	151.2	
Electrical work	173	511.4	527.3	546.2	556.3		393.2	406.7	421.8	430.0	
Masonry, stonework, and plastering	174	475.9	496.6	492.1	513.7		406.8	425.2	422.3	442.3	
Carpentering and flooring	175	184.8	192.3	180.7	188.8		143.8	149.6	137.9	145.8	
Roofing and sheet metal work	176	203.0	213.2	203.8	209.6		162.2	171.2	160.6	165.9	
Manufacturing		18,926	19,091	19,370	19,445	19,642	12,890	13,024	13,213	13,272	13,432
Durable goods		11,159	11,234	11,433	11,474	11,575	7,414	7,472	7,618	7,654	7,736
Lumber and wood products	24	737.3	753.9	743.7	755.6	773.8	616.6	631.4	620.0	630.8	646.8
Logging camps and logging contractors	241	82.1	87.0	79.7	84.5	-	68.3	72.4	65.8	70.3	-
Sawmills and planing mills	242	200.1	203.1	203.7	204.4		176.6	179.4	179.7	180.2	
Sawmills and planing mills, general	2421	163.0	165.7	165.7	166.9		143.9	146.3	146.1	147.1	
Hardwood dimension and flooring	2426	33.3	33.8	34.7	34.1		29.3	29.8	30.7	30.1	
Millwork, plywood, and structural members	243	261.1	266.9	261.2	265.4		215.8	221.2	214.8	218.8	
Millwork	2431	100.0	103.9	100.2	102.8		81.3	84.9	80.6	83.0	
Wood kitchen cabinets	2434	71.0	71.2	69.9	70.3		57.1	57.3	55.9	56.4	
Hardwood veneer and plywood	2435	23.8	23.8	24.4	24.4		20.9	21.0	21.3	21.3	
Softwood veneer and plywood	2436	37.7	38.3	38.1	38.5		34.3	34.9	34.6	34.9	
Wood containers	244	42.6	43.2	43.7	44.1		36.2	36.9	37.2	37.6	
Wood buildings and mobile homes	245	69.7	71.3	70.1	72.7		52.7	53.8	52.7	54.9	
Mobile homes	2451	46.3	47.2	47.2	48.7		37.4	38.1	38.0	39.5	
Miscellaneous wood products	249	81.7	82.4	85.3	84.5		67.0	67.7	69.8	69.0	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a	May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a
Durable goods—Continued											
Furniture and fixtures	25	511.4	514.8	534.4	534.5	537.1	408.1	411.4	426.2	426.2	428.4
Household furniture	251	305.0	305.5	319.9	318.0	-	257.8	258.1	270.8	268.8	-
Wood household furniture	2511	137.4	137.8	144.8	144.2	-	120.3	120.6	126.4	125.8	-
Upholstered household furniture	2512	97.8	98.4	102.4	101.3	-	81.5	82.0	85.9	85.0	-
Metal household furniture	2514	27.1	26.5	28.7	28.4	-	22.3	21.7	23.6	23.3	-
Mattresses and bedspings	2515	28.0	28.6	29.5	29.8	-	21.2	21.8	22.5	22.8	-
Office furniture	252	66.4	66.9	67.3	67.2	-	49.7	50.3	50.6	50.7	-
Public building and related furniture	253	28.1	28.4	29.6	30.1	-	21.5	21.7	22.8	23.2	-
Partitions and fixtures	254	73.1	74.8	76.3	77.3	-	52.1	54.0	54.9	55.6	-
Miscellaneous furniture and fixtures	259	38.8	39.2	41.3	41.9	-	27.0	27.3	27.1	27.9	-
Stone, clay, and glass products	32	586.0	592.4	583.8	590.9	599.1	454.2	459.8	454.0	460.5	468.0
Flat glass	321	14.9	15.2	14.4	14.6	-	11.7	11.9	11.2	11.4	-
Glass and glassware, pressed or blown	322	88.0	88.3	85.8	85.7	-	75.4	75.9	74.2	74.0	-
Glass containers	3221	45.3	45.7	43.6	43.4	-	40.7	41.1	39.5	39.3	-
Pressed and blown glass, nec	3229	42.7	42.6	42.2	42.3	-	34.7	34.8	34.7	34.7	-
Products of purchased glass	323	50.2	50.5	51.4	51.4	-	35.3	35.7	37.9	38.1	-
Cement, hydraulic	324	20.9	21.4	20.2	20.3	-	16.2	16.7	15.5	15.6	-
Structural clay products	325	37.6	38.3	38.4	38.8	-	29.6	30.1	30.1	30.4	-
Pottery and related products	326	36.3	36.5	37.4	37.8	-	28.9	29.2	30.1	30.3	-
Concrete, gypsum, and plaster products	327	214.9	218.0	211.3	216.3	-	167.8	170.2	162.7	167.5	-
Concrete block and brick	3271	20.3	20.5	20.3	20.7	-	13.8	13.8	13.2	13.6	-
Concrete products, nec	3272	70.7	72.1	71.7	72.7	-	54.0	55.4	54.3	55.2	-
Ready-mixed concrete	3273	104.5	105.8	100.4	104.0	-	85.1	86.0	80.6	84.1	-
Misc. nonmetallic mineral products	329	110.3	111.3	111.8	112.6	-	79.2	80.0	82.0	82.6	-
Abrasive products	3291	21.5	21.8	22.0	21.9	-	14.5	14.7	15.3	15.1	-
Asbestos products	3292	8.6	8.9	8.6	8.7	-	6.6	6.9	6.4	6.5	-
Mineral wool	3296	25.0	25.1	24.1	24.0	-	-	-	-	-	-
Primary metal industries	33	746.1	750.8	775.7	779.2	786.1	560.7	564.7	593.1	596.2	601.1
Blast furnaces and basic steel products	331	269.3	272.3	280.9	281.6	282.8	203.2	206.0	217.7	218.1	218.4
Blast furnaces and steel mills	3312	203.8	206.3	212.4	212.8	-	154.8	157.2	166.2	166.1	-
Steel pipe and tubes	3317	23.2	23.4	24.8	25.0	-	16.9	17.0	18.7	19.0	-
Iron and steel foundries	332	129.5	130.1	136.8	138.1	-	102.1	102.4	109.6	110.9	-
Gray iron foundries	3321	80.7	80.9	83.8	84.7	-	65.6	65.8	68.4	69.4	-
Malleable iron foundries	3322	8.8	8.8	9.1	9.1	-	6.4	6.3	6.9	6.9	-
Steel foundries, nec	3325	26.3	26.6	29.7	30.3	-	19.6	19.8	23.1	23.6	-
Primary nonferrous metals	333	39.1	39.3	41.3	41.4	-	27.5	27.8	30.4	30.6	-
Primary aluminum	3334	20.8	20.8	22.0	22.2	-	14.6	14.7	16.5	16.7	-
Nonferrous rolling and drawing	335	180.5	181.0	184.0	184.9	-	128.6	128.9	131.9	132.7	-
Copper rolling and drawing	3351	23.2	23.4	24.3	24.5	-	18.1	18.2	18.7	18.8	-
Aluminum sheet, plate, and foil	3353	28.1	28.3	27.7	27.8	-	20.7	20.7	19.3	19.4	-
Nonferrous wire drawing and insulating	3357	77.3	77.5	80.2	80.2	-	53.9	54.1	57.7	57.8	-
Nonferrous foundries	336	85.8	85.9	88.5	88.8	-	68.8	68.8	71.1	71.2	-
Aluminum foundries	3361	53.3	53.2	54.6	54.6	-	43.4	43.3	44.6	44.5	-
Fabricated metal products	34	1,396.8	1,406.6	1,439.2	1,447.5	1,462.0	1,034.3	1,044.2	1,070.5	1,079.1	1,093.5
Metal cans and shipping containers	341	56.2	56.5	54.8	55.2	-	48.2	48.4	46.8	47.1	-
Metal cans	3411	45.4	45.7	43.9	44.2	-	39.6	39.8	37.9	38.1	-
Cutlery, hand tools, and hardware	342	132.7	133.2	134.8	135.0	-	97.6	98.1	100.3	100.5	-
Hand and edge tools, and hand saws and blades	3423,5	44.7	45.4	46.9	46.8	-	32.7	33.3	34.6	34.3	-
Hardware, nec	3429	77.0	76.9	76.7	77.1	-	57.6	57.5	58.0	58.6	-
Plumbing and heating, except electric	343	59.7	60.3	62.1	62.1	-	42.3	43.2	44.4	44.3	-
Plumbing fittings and brass goods	3432	24.7	24.7	26.0	25.9	-	17.8	18.0	19.0	18.8	-
Heating equipment, except electric	3433	24.0	24.6	24.2	24.3	-	16.1	16.7	16.3	16.4	-
Fabricated structural metal products	344	422.3	428.1	431.5	435.8	-	298.2	304.8	308.0	313.2	-
Fabricated structural metal	3441	76.4	77.5	77.9	78.2	-	54.2	55.2	55.7	56.1	-
Metal doors, sash, and trim	3442	90.4	93.1	91.1	92.9	-	67.1	69.7	66.3	68.4	-
Fabricated plate work (boiler shops)	3443	86.4	85.5	90.0	90.2	-	54.4	54.5	59.9	60.5	-
Sheet metal work	3444	107.8	109.5	110.9	112.5	-	80.0	82.0	83.1	84.8	-
Architectural metal work	3446	29.6	30.4	30.3	30.5	-	21.5	22.1	22.6	22.7	-

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a	May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a
Durable goods—Continued											
Fabricated metal products—Continued											
Screw machine products, bolts, etc	345	92.0	92.3	96.9	97.3		70.2	70.5	74.2	74.5	
Screw machine products	3451	45.9	46.1	49.9	50.2		37.4	37.5	40.9	41.2	
Bolts, nuts, rivets, and washers	3452	46.1	46.2	47.0	47.1		32.8	33.0	33.3	33.3	
Metal forgings and stampings	346	233.4	232.5	234.5	235.7		185.8	185.0	186.5	187.5	
Iron and steel forgings	3462	29.8	29.7	30.1	30.2		22.9	22.8	23.1	23.2	
Automotive stampings	3465	97.7	96.9	95.4	96.0		83.1	82.4	81.0	81.7	
Metal stampings, nec	3469	94.8	94.8	97.5	98.1		71.8	71.8	73.9	74.2	
Metal services, nec	347	111.4	112.0	117.3	117.7		89.0	89.3	94.3	94.4	
Plating and polishing	3471	72.3	72.7	76.0	76.2		58.2	58.4	61.5	61.5	
Metal coating and allied services	3479	39.1	39.3	41.3	41.5		30.8	30.9	32.8	32.9	
Ordnance and accessories, nec	348	77.0	77.7	78.2	78.6		49.0	49.1	48.9	49.5	
Ammunition, except for small arms, nec	3483	43.5	43.7	43.1	43.2		26.3	26.2	24.3	24.6	
Misc. fabricated metal products	349	212.1	214.0	229.1	230.1		154.0	155.8	167.1	168.1	
Valves and pipe fittings	3494	78.1	78.7	85.4	86.0		52.4	53.0	58.1	58.5	
Misc. fabricated wire products	3496	51.8	52.0	55.5	55.5		39.4	39.6	42.5	42.8	
Machinery, except electrical	35	2,010.1	2,022.8	2,115.1	2,122.3	2,142.7	1,189.8	1,199.0	1,267.4	1,273.7	1,284.2
Engines and turbines	351	89.0	87.9	87.3	86.7	-	56.4	55.9	58.1	57.9	-
Turbines and turbine generator sets	3511	26.0	25.7	22.2	22.2		14.0	13.9	12.6	12.8	
Internal combustion engines, nec	3519	63.0	62.2	65.1	64.5		42.4	42.0	45.5	45.1	
Farm and garden machinery	352	94.4	94.1	106.3	106.0		63.6	63.1	75.5	75.4	
Farm machinery and equipment	3523	67.8	69.2	74.7	75.3		43.0	44.3	50.7	51.2	
Construction and related machinery	353	209.2	212.4	229.6	231.4		123.9	126.8	140.4	142.5	
Construction machinery	3531	77.2	78.1	82.9	83.1		45.9	46.8	51.9	52.8	
Mining machinery	3532	17.1	17.1	18.2	18.2		10.3	10.3	11.2	11.1	
Oil field machinery	3533	35.5	36.8	43.8	44.3		20.8	21.8	26.6	27.0	
Conveyors and conveying equipment	3535	31.9	32.5	32.8	33.3		16.4	17.0	17.4	17.7	
Industrial trucks and tractors	3537	24.3	24.5	26.3	26.6		16.9	17.2	18.0	18.3	
Metalworking machinery	354	287.5	288.2	295.5	297.1		205.8	206.2	211.3	212.5	
Machine tools, metal cutting types	3541	45.1	45.1	45.8	45.9		28.3	28.2	28.9	29.0	
Machine tools, metal forming types	3542	16.9	17.0	17.3	17.3		10.5	10.6	11.1	11.1	
Special dies, tools, jigs, and fixtures	3544	136.5	136.9	140.3	140.8		104.8	104.9	107.2	107.7	
Machine tool accessories	3545	51.4	51.4	54.2	54.8		36.4	36.5	38.5	38.9	
Power driven hand tools	3546	20.3	20.5	20.3	20.5		15.0	15.2	14.8	14.9	
Special industry machinery	355	160.3	161.4	169.7	171.3		95.3	95.9	101.8	102.9	
Food products machinery	3551	37.4	37.6	40.3	40.2		22.5	22.7	24.3	24.2	
Textile machinery	3552	19.6	19.8	20.8	21.0		13.2	13.4	13.9	14.0	
Printing trades machinery	3555	26.8	26.5	28.3	28.4		15.6	15.4	17.0	17.1	
General industrial machinery	356	245.9	247.3	254.8	255.2		156.5	158.0	164.6	165.1	
Pumps and pumping equipment	3561	43.1	43.6	45.1	45.2		24.7	25.0	26.3	26.5	
Ball and roller bearings	3562	41.4	41.6	42.3	42.4		31.6	31.9	33.0	33.0	
Air and gas compressors	3563	20.8	20.8	21.0	20.7		11.7	11.9	12.3	12.2	
Blowers and fans	3564	29.3	29.7	30.2	30.4		18.8	19.2	19.4	19.6	
Speed changers, drives, and gears	3566	19.3	19.4	19.9	20.1		13.1	13.4	13.8	13.9	
Power transmission equipment, nec	3568	16.2	15.7	17.5	17.4		10.5	10.3	11.8	11.8	
Office and computing machines	357	479.4	483.8	503.7	504.5		159.3	161.8	167.5	167.3	
Electronic computing equipment	3573	427.3	430.8	449.2	450.4		134.1	136.4	140.6	140.6	
Refrigeration and service machinery	358	175.9	177.2	182.0	181.9		125.8	126.9	131.2	131.4	
Refrigeration and heating equipment	3585	125.1	126.4	130.6	130.3		91.7	92.8	96.8	96.6	
Misc. machinery, except electrical	359	268.5	270.5	286.2	288.2		203.2	204.4	217.0	218.7	
Carburetors, pistons, rings, and valves	3592	31.0	31.4	31.8	32.1		25.4	25.5	25.2	25.7	
Machinery, except electrical, nec	3599	237.5	239.1	254.4	256.1		177.8	178.9	191.8	193.0	
Electrical and electronic equipment	36	2,064.7	2,071.9	2,108.4	2,106.8	2,124.1	1,208.7	1,212.7	1,239.2	1,238.2	1,253.2
Electric distributing equipment	361	107.3	107.4	108.4	108.7	-	77.7	77.7	77.5	78.0	-
Transformers	3612	48.6	48.4	49.5	49.6		35.7	35.3	35.4	35.8	
Switchgear and switchboard apparatus	3613	58.7	59.0	58.9	59.1		42.0	42.4	42.1	42.2	
Electrical industrial apparatus	362	181.2	181.2	185.4	185.8		124.1	123.8	128.5	129.0	
Motors and generators	3621	86.7	86.8	88.9	89.2		66.2	66.1	69.1	69.4	
Industrial controls	3622	60.4	60.1	61.3	61.4		34.6	34.3	35.7	35.8	
Household appliances	363	135.9	135.6	134.9	133.9		107.8	107.3	107.4	106.9	
Household refrigerators and freezers	3632	29.0	28.8	29.5	29.5		23.6	23.4	23.9	23.9	
Household laundry equipment	3633	22.2	22.6	22.2	22.3		17.5	17.8	17.9	18.0	
Electric housewares and fans	3634	34.8	34.9	35.4	35.2		26.7	26.8	27.7	27.7	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a	May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a
Durable goods—Continued											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment	364	190.5	191.2	192.2	192.3		138.2	139.0	139.6	139.8	
Electric lamps	3641	25.5	25.4	25.6	25.6		21.9	21.8	21.9	22.0	
Current-carrying wiring devices	3643	76.3	76.8	75.5	75.7		50.3	51.1	49.8	50.1	
Noncurrent-carrying wiring devices	3644	15.2	15.2	15.5	15.5		11.1	11.2	11.3	11.4	
Residential lighting fixtures	3645	26.3	26.0	26.9	26.6		20.0	19.5	20.2	19.9	
Radio and TV receiving equipment	365	80.5	80.6	80.5	80.4		54.2	54.4	55.0	55.2	
Radio and TV receiving sets	3651	60.4	60.6	61.0	60.5		39.7	39.9	40.4	40.1	
Communication equipment	366	604.1	605.4	602.1	599.4		253.7	254.0	253.0	252.0	
Telephone and telegraph apparatus	3661	117.5	117.1	117.8	117.8		68.1	67.9	69.7	69.6	
Radio and TV communication equipment	3662	486.6	488.3	484.3	481.6		185.6	186.1	183.3	182.4	
Electronic components and accessories	367	617.1	623.0	653.8	655.7		350.3	354.2	372.1	371.5	
Electronic tubes	3671-3	39.0	38.4	38.4	38.4		24.8	24.4	24.9	24.8	
Semiconductors and related devices	3674	243.3	245.5	259.8	261.4		93.9	34.5	102.3	102.8	
Electronic components, nec	3679	264.2	267.5	279.3	278.9		178.7	181.5	188.3	187.0	
Misc. electrical equipment and supplies	369	148.1	147.5	151.1	150.6		102.7	102.3	106.1	105.8	
Storage batteries	3691	26.3	26.8	28.7	28.6		20.3	20.9	21.6	21.4	
Engine electrical equipment	3694	65.9	65.0	66.5	66.6		50.0	48.9	50.7	50.9	
Transportation equipment	37	2,049.2	2,052.5	2,044.8	2,048.6	2,055.0	1,299.6	1,298.4	1,279.6	1,281.4	1,285.7
Motor vehicles and equipment	371	872.6	875.4	848.4	854.2	858.8	680.6	682.9	661.0	665.6	670.5
Motor vehicles and car bodies	3711	389.0	389.5	359.5	362.2	-	294.4	294.7	270.0	272.0	-
Truck and bus bodies	3713	42.7	43.9	43.8	43.4	-	33.7	34.8	34.2	33.9	-
Motor vehicle parts and accessories	3714	392.3	392.7	393.9	396.9	-	314.7	315.1	316.3	319.0	-
Truck trailers	3715	30.3	31.2	31.7	32.1	-	23.4	24.2	25.1	25.2	-
Aircraft and parts	372	695.9	697.0	697.4	696.1	-	349.3	348.1	339.5	338.1	-
Aircraft	3721	349.7	351.7	366.4	366.2	-	157.0	156.3	160.0	159.6	-
Aircraft engines and engine parts	3724	157.0	157.3	151.1	150.5	-	90.6	80.4	74.4	74.0	-
Aircraft equipment, nec	3728	189.2	188.0	179.9	179.4	-	111.7	111.4	105.1	104.5	-
Ship and boat building and repairing	373	187.6	185.8	199.0	198.9	-	140.4	138.5	151.8	151.3	-
Ship building and repairing	3731	124.3	122.8	131.0	130.5	-	88.8	87.3	96.5	95.2	-
Boat building and repairing	3732	63.3	63.0	68.0	68.4	-	51.6	51.2	55.3	56.1	-
Railroad equipment	374	25.7	26.6	29.9	30.3	-	17.6	18.0	21.8	22.1	-
Guided missiles, space vehicles, and parts	376	202.0	203.1	205.3	204.7	-	67.2	66.8	61.2	60.4	-
Guided missiles and space vehicles	3761	152.4	153.1	153.6	152.9	-	48.5	48.1	43.7	42.5	-
Miscellaneous transportation equipment	379	53.1	52.5	52.1	52.1	-	36.0	35.5	35.3	35.3	-
Travel trailers and campers	3792	20.6	20.4	20.6	20.7	-	16.2	15.9	16.2	16.3	-
Instruments and related products	38	692.2	696.9	705.7	707.2	711.1	375.8	378.8	389.4	390.4	394.6
Engineering and scientific instruments	381	82.7	83.2	85.0	85.4	-	37.4	37.6	39.4	39.8	-
Measuring and controlling devices	382	237.5	238.4	235.4	234.7	-	132.2	133.0	132.9	133.2	-
Environmental controls	3822	41.3	41.4	41.5	41.4	-	26.3	26.7	27.2	27.3	-
Process control instruments	3823	52.6	52.9	52.7	52.6	-	27.1	27.5	28.2	28.1	-
Instruments to measure electricity	3825	102.9	103.1	101.0	100.9	-	51.6	51.4	50.1	50.8	-
Optical instruments and lenses	383	33.5	33.7	34.4	34.2	-	16.4	16.6	17.3	17.2	-
Medical instruments and supplies	384	184.2	185.6	195.2	197.0	-	110.2	111.1	119.5	120.1	-
Surgical and medical instruments	3841	91.9	92.8	95.3	96.2	-	52.7	53.3	55.6	56.0	-
Surgical appliances and supplies	3842	78.7	79.0	85.5	86.2	-	49.9	50.0	55.7	55.8	-
Ophthalmic goods	385	37.1	37.3	38.1	38.3	-	25.3	25.5	26.3	26.3	-
Photographic equipment and supplies	386	105.8	107.3	106.9	107.0	-	46.2	46.7	46.0	46.1	-
Watches, clocks, and watchcases	387	11.4	11.4	10.7	10.6	-	8.1	8.3	8.0	7.7	-
Miscellaneous manufacturing	39	365.6	371.0	381.9	380.9	384.1	266.2	271.2	279.0	277.9	280.2
Jewelry, silverware, and plated ware	391	53.3	53.5	54.8	55.0	-	36.9	37.1	38.1	38.3	-
Jewelry, precious metal	3911	37.6	37.6	38.5	38.8	-	25.8	25.9	26.7	26.9	-
Musical instruments	393	12.2	12.2	12.5	12.5	-	10.0	10.1	10.5	10.5	-
Toys and sporting goods	394	94.8	97.0	105.3	104.3	-	70.9	73.1	79.5	78.5	-
Dolls, games, toys, and children's vehicles	3942,4	42.7	44.2	47.4	46.4	-	30.6	32.7	34.7	33.8	-
Sporting and athletic goods, nec	3949	52.1	52.8	57.9	57.9	-	40.1	40.4	44.8	44.7	-
Pens, pencils, office, and art supplies	395	32.8	33.2	33.8	33.8	-	22.7	23.1	23.9	23.7	-
Costume jewelry and notions	396	41.0	41.5	39.1	39.0	-	32.2	32.6	29.9	30.0	-
Costume jewelry	3961	22.2	22.1	20.5	20.4	-	17.4	17.3	15.7	15.7	-
Miscellaneous manufactures	399	131.5	133.6	136.4	136.3	-	93.5	95.2	97.1	96.9	-
Signs and advertising displays	3993	57.3	57.7	59.8	59.4	-	39.6	39.8	41.3	40.8	-

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a	May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a
Nondurable goods		7,767	7,857	7,937	7,971	8,067	5,476	5,552	5,595	5,618	5,696
Food and kindred products	20	1,578.3	1,624.2	1,590.8	1,605.0	1,652.5	1,106.5	1,146.8	1,115.0	1,127.4	1,169.5
Meat products	201	375.2	382.7	389.2	391.2	-	316.8	323.8	328.5	330.8	-
Meat packing plants	2011	131.7	133.3	140.1	140.6	-	109.4	111.2	117.0	117.9	-
Sausages and other prepared meats	2013	78.3	79.8	78.6	79.0	-	57.6	58.8	57.5	57.8	-
Poultry dressing plants	2016	144.6	148.4	150.4	152.1	-	130.9	134.4	136.1	137.8	-
Dairy products	202	163.0	166.3	163.5	164.6	-	99.6	102.6	98.8	99.6	-
Cheese, natural and processed	2022	41.4	42.5	42.1	42.5	-	31.6	32.6	32.2	32.4	-
Fluid milk	2026	80.8	81.4	80.9	80.9	-	40.6	41.3	40.1	40.0	-
Preserved fruits and vegetables	203	219.3	242.1	218.5	224.1	-	177.1	198.3	174.6	179.5	-
Canned specialties	2032	22.9	22.5	23.0	23.0	-	16.0	15.4	15.9	16.0	-
Canned fruits and vegetables	2033	66.5	77.2	66.7	68.4	-	53.4	63.4	52.8	54.2	-
Frozen fruits and vegetables	2037	46.6	53.4	42.6	45.7	-	40.4	46.9	36.9	39.7	-
Grain mill products	204	123.5	125.3	128.8	130.0	-	84.3	85.8	89.3	90.0	-
Flour and other grain mill products	2041	22.2	22.7	23.1	23.4	-	14.7	15.2	16.0	16.0	-
Prepared feeds, nec	2048	41.7	42.2	43.5	43.6	-	26.3	26.6	27.4	27.4	-
Bakery products	205	208.2	208.9	205.3	205.7	-	126.4	126.9	123.9	124.6	-
Bread, cake, and related products	2051	162.9	164.1	159.8	161.0	-	89.7	90.7	88.9	90.2	-
Cookies and crackers	2052	45.3	44.8	45.5	44.7	-	36.7	36.2	35.0	34.4	-
Sugar and confectionery products	206	85.2	86.9	88.2	89.5	-	65.2	67.1	68.5	69.6	-
Cane and beet sugar	2061-3	18.8	18.5	19.6	19.7	-	14.3	14.0	14.9	15.1	-
Confectionery products	2065	47.9	48.8	50.2	51.2	-	38.7	39.8	41.3	42.1	-
Fats and oils	207	34.1	33.6	34.5	34.1	-	24.1	23.6	25.5	25.3	-
Beverages	208	203.3	207.8	197.5	199.2	-	88.8	90.6	83.2	84.1	-
Malt beverages	2082	40.8	41.0	39.8	39.9	-	26.0	26.0	24.5	24.4	-
Bottled and canned soft drinks	2086	119.6	122.7	116.8	118.2	-	39.6	41.0	38.5	39.3	-
Misc. food and kindred products	209	166.5	170.6	165.3	166.6	-	124.2	128.1	122.7	123.9	-
Tobacco manufactures	21	51.5	51.4	50.5	49.1	50.1	38.4	37.9	37.4	36.2	36.8
Cigarettes	211	39.4	40.0	38.5	37.6	-	29.4	29.7	28.9	28.2	-
Textile mill products	22	721.3	727.7	726.5	728.4	728.4	625.9	631.9	631.1	631.5	632.4
Weaving mills, cotton	221	99.7	100.2	100.9	100.6	-	89.9	90.5	91.4	91.2	-
Weaving mills, synthetics	222	85.9	87.1	91.2	91.6	-	76.8	77.5	81.0	81.1	-
Weaving and finishing mills, wool	223	18.3	18.5	19.4	19.5	-	15.1	15.2	15.8	16.0	-
Narrow fabric mills	224	23.1	23.2	24.3	24.6	-	20.0	20.1	20.9	21.0	-
Knitting mills	225	214.3	216.2	207.9	209.1	-	188.0	189.9	184.1	184.9	-
Women's hosiery, except socks	2251	36.3	36.1	34.0	33.6	-	32.4	32.3	31.2	30.8	-
Hosiery, nec	2252	35.4	35.7	35.4	35.2	-	31.8	32.0	32.0	31.7	-
Knit outerwear mills	2253	71.8	73.0	68.5	70.0	-	63.9	65.0	61.2	62.4	-
Knit underwear mills	2254	26.1	26.3	25.6	25.6	-	22.1	22.3	21.7	21.6	-
Circular knit fabric mills	2257	25.9	26.0	25.3	25.5	-	22.6	22.7	22.2	22.4	-
Textile finishing, except wool	226	60.0	60.4	59.2	58.8	-	50.3	50.6	49.2	48.7	-
Finishing plants, cotton	2261	23.8	24.0	24.2	24.1	-	20.1	20.3	20.1	19.9	-
Finishing plants, synthetics	2262	22.3	22.5	21.4	21.2	-	18.2	18.2	17.3	17.1	-
Floor covering mills	227	57.3	57.8	58.2	58.0	-	46.3	46.7	46.7	46.2	-
Yarn and thread mills	228	110.0	111.1	110.8	111.4	-	98.3	99.6	99.4	99.6	-
Yarn mills, except wool	2281	80.7	81.8	82.1	82.6	-	73.0	74.2	74.4	74.7	-
Throwing and winding mills	2282	15.8	15.5	14.8	15.0	-	14.0	13.8	13.2	13.2	-
Miscellaneous textile goods	229	52.7	53.2	54.6	54.8	-	41.2	41.8	42.6	42.8	-
Apparel and other textile products	23	1,098.4	1,109.0	1,101.8	1,103.8	1,108.0	922.5	932.9	927.6	929.0	931.4
Men's and boys' suits and coats	231	57.7	58.4	57.8	58.7	-	49.3	49.8	49.9	50.7	-
Men's and boys' furnishings	232	304.9	308.4	313.0	312.6	-	263.6	266.3	270.5	269.8	-
Men's and boys' shirts and nightwear	2321	86.2	87.0	85.3	85.2	-	74.2	74.7	73.2	72.8	-
Men's and boys' separate trousers	2327	48.8	49.1	50.0	49.7	-	42.7	42.9	43.7	43.4	-
Men's and boys' work clothing	2328	93.9	95.2	96.7	96.7	-	82.1	83.3	84.7	84.7	-
Women's and misses' outerwear	233	355.4	358.3	351.7	351.6	-	296.4	299.8	294.0	293.7	-
Women's and misses' blouses and waists	2331	46.8	46.9	44.6	44.6	-	38.8	38.9	36.9	36.9	-
Women's and misses' dresses	2335	83.3	84.4	84.1	82.8	-	69.7	71.1	70.0	68.9	-
Women's and misses' suits and coats	2337	41.2	43.0	39.1	41.2	-	34.1	35.5	31.7	33.5	-
Women's and misses' outerwear, nec	2339	184.1	184.0	183.9	183.0	-	153.8	154.3	155.4	154.4	-

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^o	June 1988 ^o	May 1987	June 1987	Apr. 1988	May 1988 ^o	June 1988 ^o
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	72.8	73.2	70.9	71.2		59.9	60.1	58.7	58.8	
Women's and children's underwear	2341	59.1	59.6	57.6	58.0		50.2	50.6	49.6	49.7	
Brassieres and allied garments	2342	13.7	13.6	13.3	13.2		9.7	9.5	9.1	9.1	
Children's outerwear	236	58.3	60.1	55.5	56.0		48.7	50.4	46.5	47.2	
Children's dresses and blouses	2361	24.4	25.1	23.5	23.4		21.3	22.0	20.4	20.4	
Misc. apparel and accessories	238	42.5	42.3	42.0	42.4		35.8	35.5	35.0	35.3	
Misc. fabricated textile products	239	188.9	190.0	193.2	193.5		154.7	156.5	159.2	159.4	
Curtains and draperies	2391	25.4	25.4	25.0	25.0		20.4	20.6	20.5	20.6	
House furnishings, nec	2392	51.4	51.4	53.6	53.1		43.4	43.6	45.5	45.0	
Automotive and apparel trimmings	2396	39.2	39.9	39.4	39.2		32.9	33.6	32.6	32.4	
Paper and allied products	26	675.6	683.5	684.0	686.7	695.3	512.4	519.6	517.6	518.8	527.8
Paper and pulp mills	261,2,6	189.9	192.5	191.1	191.4	-	144.4	146.4	145.4	145.3	-
Paper mills, except building paper	262	166.1	168.6	167.5	167.6		125.6	127.6	126.8	126.5	
Paperboard mills	263	53.8	54.6	53.2	53.3		40.4	41.0	40.3	40.4	
Misc. converted paper products	264	231.2	233.0	233.0	234.2		171.7	173.8	171.2	171.6	
Paper coating and glazing	2641	57.8	59.1	58.1	58.4		36.7	38.2	36.2	36.0	
Envelopes	2642	26.9	27.0	27.7	27.3		20.8	20.9	21.2	20.9	
Bags, except textile bags	2643	51.8	51.8	53.0	53.0		40.8	41.0	41.5	41.3	
Paperboard containers and boxes	265	200.7	203.4	206.7	207.8		155.9	158.4	160.7	161.5	
Folding paperboard boxes	2651	44.4	45.0	45.5	45.6		35.2	35.7	36.2	36.3	
Corrugated and solid fiber boxes	2653	108.7	110.1	112.4	112.4		82.3	83.6	84.7	84.6	
Sanitary food containers	2654	22.5	22.8	22.9	23.5		19.4	19.7	19.7	20.1	
Printing and publishing	27	1,499.9	1,506.6	1,555.5	1,556.6	1,566.0	837.3	840.8	874.9	872.6	875.8
Newspapers	271	466.6	469.2	475.3	476.0	-	171.2	171.6	172.4	171.5	-
Periodicals	272	119.5	120.6	126.3	126.4		43.6	45.0	46.6	45.5	
Books	273	112.4	111.9	114.1	113.1		60.8	60.3	62.2	61.3	
Book publishing	2731	83.3	83.2	85.2	84.4		37.9	37.8	38.9	38.3	
Book printing	2732	29.1	28.7	28.9	28.7		22.9	22.5	23.3	23.0	
Miscellaneous publishing	274	77.2	78.3	81.5	81.5		41.7	42.4	43.0	42.2	
Commercial printing	275	525.7	526.9	551.8	551.7		379.5	380.0	403.6	403.0	
Commercial printing, letterpress	2751	162.0	163.3	170.5	170.8		116.7	117.3	122.1	122.0	
Commercial printing, lithographic	2752	335.6	336.0	351.3	350.8		240.5	240.7	257.5	256.9	
Manifold business forms	276	49.3	49.4	51.1	51.1		34.2	34.2	34.9	35.1	
Blankbooks and bookbinding	278	72.7	73.3	77.0	78.0		58.2	58.8	60.8	61.8	
Printing trade services	279	52.8	53.1	55.2	55.4		39.5	39.8	40.5	40.8	
Chemicals and allied products	28	1,017.6	1,020.7	1,052.7	1,058.4	1,070.5	571.4	573.5	592.8	596.5	604.4
Industrial inorganic chemicals	281	129.1	130.0	132.3	132.5	-	67.3	67.5	66.8	67.6	-
Industrial inorganic chemicals, nec	2819	85.7	86.4	88.9	89.1		48.4	48.4	48.1	48.3	
Plastics materials and synthetics	282	165.2	158.0	167.8	168.6		109.4	104.0	109.8	110.8	
Plastics materials and resins	2821	74.2	76.4	77.3	77.7		44.0	45.2	45.3	45.9	
Organic fibers, noncellulosic	2824	64.0	54.3	63.3	63.6		45.4	38.7	44.6	44.9	
Drugs	283	212.3	215.8	225.3	226.6		97.7	99.7	102.3	102.3	
Pharmaceutical preparations	2834	169.0	171.1	179.3	180.4		76.5	77.4	79.9	79.9	
Soap, cleaners, and toilet goods	284	150.4	154.0	159.8	162.0		95.2	98.7	103.4	104.7	
Soap and other detergents	2841	44.2	44.2	44.6	44.8		27.9	27.9	27.8	27.8	
Polishing, sanitation, and finishing preparations	2842,3	40.4	41.0	42.9	43.0		22.3	22.9	25.0	24.8	
Toilet preparations	2844	65.8	68.8	72.3	74.2		45.0	47.9	50.6	52.1	
Paints and allied products	285	62.3	63.2	61.6	62.0		30.6	31.4	30.1	30.3	
Industrial organic chemicals	286	150.4	151.1	154.3	154.8		83.9	84.7	89.1	89.4	
Cyclic crudes and intermediates	2865	28.7	28.8	29.5	29.6		18.8	18.7	18.3	18.3	
Gum, wood, and industrial organic chemicals, nec	2861,9	121.7	122.3	124.8	125.2		65.1	66.0	70.8	71.1	
Agricultural chemicals	287	52.6	51.8	53.4	54.0		33.4	32.4	34.9	34.9	
Miscellaneous chemical products	289	95.3	96.8	98.2	97.9		53.9	55.1	56.4	56.5	
Petroleum and coal products	29	165.7	167.8	164.1	167.1	168.3	108.7	110.4	106.2	109.5	110.8
Petroleum refining	291	126.2	127.3	125.4	127.4	-	80.4	81.3	79.5	81.7	-
Paving and roofing materials	295	27.5	28.2	26.1	27.1		21.5	22.0	19.6	20.7	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Nondurable goods—Continued											
Rubber and misc. plastics products	30	816.2	821.2	865.6	869.8	879.2	634.0	636.7	672.5	675.8	684.0
Tires and inner tubes	301	85.6	85.6	86.0	86.1	-	61.9	61.4	61.5	61.5	-
Rubber and plastics footwear	302	11.0	10.9	12.9	13.1	-	9.0	8.9	10.7	10.9	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	21.5	22.2	23.9	24.1	-	15.5	15.8	17.6	17.7	-
Fabricated rubber products, nec	306	102.7	103.4	107.7	108.4	-	78.5	78.9	82.6	83.4	-
Miscellaneous plastics products	307	595.4	599.1	635.1	638.1	-	469.1	471.7	500.1	502.3	-
Leather and leather products	31	142.6	144.4	145.1	146.0	148.7	119.3	121.5	119.5	121.0	123.0
Leather tanning and finishing	311	14.6	14.5	14.3	14.3	-	12.2	12.0	11.9	11.9	-
Footwear, except rubber	314	83.9	85.9	86.0	86.7	-	72.3	74.1	73.1	74.2	-
Men's footwear, except athletic	3143	35.8	36.9	38.3	38.5	-	29.0	30.0	30.8	31.1	-
Women's footwear, except athletic	3144	31.1	31.8	29.6	29.7	-	27.3	28.1	26.1	26.3	-
Luggage	316	10.5	10.5	11.2	11.5	-	7.6	7.6	7.7	8.0	-
Handbags and personal leather goods	317	16.8	15.8	15.9	15.8	-	13.6	13.2	12.4	12.4	-
Transportation and public utilities		5,358	5,398	5,511	5,561	5,615	4,441	4,481	4,572	4,614	4,670
Transportation		3,149	3,175	3,275	3,318	3,350					
Railroad transportation	40	314.7	313.8	300.3	303.1	-	-	-	-	-	-
Class I railroads ²	4011	276.6	275.9	260.0	262.1	-	-	-	-	-	-
Local and interurban passenger transit	41	309.1	294.7	317.8	321.1	-	286.7	272.7	293.5	296.6	-
Local and suburban transportation	411	107.5	109.1	113.5	114.7	-	98.2	99.5	103.6	104.7	-
Taxicabs	412	34.2	33.7	33.8	33.2	-	-	-	-	-	-
Intercity highway transportation	413	31.0	31.3	31.1	31.2	-	28.2	28.4	28.2	28.4	-
School buses	415	113.5	98.0	115.5	117.2	-	-	-	-	-	-
Trucking and warehousing	42	1,435.8	1,459.6	1,501.2	1,522.8	-	1,246.9	1,270.4	1,304.6	1,323.7	-
Trucking and trucking terminals	421,3	1,333.4	1,356.0	1,391.5	1,412.7	-	1,161.6	1,183.9	1,213.1	1,232.0	-
Public warehousing	422	102.4	103.6	109.7	110.1	-	85.3	86.5	91.5	91.7	-
Water transportation	44	178.4	183.9	176.2	182.1	-	-	-	-	-	-
Local water transportation	445	26.9	28.2	25.7	26.6	-	-	-	-	-	-
Water transportation services	446	98.7	101.5	98.0	102.9	-	-	-	-	-	-
Transportation by air	45	595.1	602.9	638.8	644.5	-	-	-	-	-	-
Air transportation	451,2	524.1	530.5	560.3	565.6	-	-	-	-	-	-
Air transportation services	458	71.0	72.4	78.5	78.9	-	-	-	-	-	-
Pipe lines, except natural gas	46	18.0	18.5	15.9	16.1	-	13.1	13.5	10.9	11.1	-
Transportation services	47	297.6	301.2	325.1	327.9	-	-	-	-	-	-
Freight forwarding	471	62.5	63.3	66.9	67.3	-	-	-	-	-	-
Communication and public utilities		2,209	2,223	2,236	2,243	2,265	-	-	-	-	-
Communication	48	1,286.2	1,290.4	1,305.7	1,309.7	-	975.3	980.3	987.5	990.3	-
Telephone communication	481	900.8	903.3	904.9	907.6	-	664.5	667.7	665.2	666.2	-
Radio and television broadcasting	483	236.3	236.6	242.4	243.7	-	194.4	194.9	199.0	200.8	-
Radio broadcasting	4832	115.6	116.5	115.9	116.5	-	-	-	-	-	-
Television broadcasting	4833	120.7	120.1	126.5	127.2	-	-	-	-	-	-
Electric, gas, and sanitary services	49	922.5	933.0	930.2	933.3	-	731.6	741.2	735.5	738.9	-
Electric services	491	445.4	449.3	445.6	445.8	-	340.3	343.9	340.1	340.5	-
Gas production and distribution	492	164.6	167.8	165.4	166.1	-	130.6	133.4	130.6	131.2	-
Combination utility services	493	204.9	206.3	202.0	202.3	-	168.7	170.1	165.5	166.4	-
Sanitary services	495	80.9	82.4	89.9	91.6	-	70.4	71.8	77.6	79.1	-
Wholesale trade		5,835	5,889	6,065	6,111	6,175	4,672	4,724	4,877	4,917	4,975
Durable goods	50	3,422	3,450	3,603	3,635	3,672	2,712	2,738	2,870	2,899	-
Motor vehicles and automotive equipment	501	433.9	436.9	447.1	449.9	-	347.7	350.1	358.7	360.8	-
Automobiles and other motor vehicles	5012	111.5	111.9	117.7	118.4	-	-	-	-	-	-
Automotive parts and supplies	5013	292.7	294.5	299.1	300.6	-	-	-	-	-	-

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a	May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a
Wholesale trade—Continued											
Durable goods—Continued											
Furniture and home furnishings	502	141.1	141.7	143.3	143.3		113.9	114.5	115.1	114.9	
Furniture	5021	62.4	62.7	64.1	64.6		-	-	-	-	
Home furnishings	5023	78.7	79.0	79.2	78.7		-	-	-	-	
Lumber and construction materials	503	232.8	236.8	259.0	266.6		192.4	195.7	211.3	217.9	
Lumber, plywood, and millwork	5031	105.4	108.0	118.6	121.6		-	-	-	-	
Construction materials, nec	5039	127.4	128.8	140.4	145.0		-	-	-	-	
Sporting goods, toys, and hobby goods	504	83.6	84.9	88.0	87.7		69.2	70.5	72.6	72.4	
Metals and minerals, except petroleum	505	132.5	134.5	143.0	144.2		103.5	105.4	113.1	114.3	
Electrical goods	506	492.2	494.2	513.8	518.4		374.5	376.2	392.5	397.3	
Electrical apparatus and equipment	5063	269.7	271.5	285.1	287.0		-	-	-	-	
Electrical appliances, TV and radios	5064	68.3	67.8	68.3	68.1		-	-	-	-	
Electronic parts and equipment	5065	154.2	154.9	160.4	163.3		-	-	-	-	
Hardware, plumbing, and heating equipment	507	261.1	264.7	268.6	270.3		210.8	213.6	216.6	218.4	
Hardware	5072	90.6	91.4	92.3	93.0		-	-	-	-	
Plumbing and hydronic heating supplies	5074	107.0	108.5	110.9	111.7		-	-	-	-	
Machinery, equipment, and supplies	508	1,449.8	1,458.2	1,529.8	1,542.9		1,144.1	1,153.1	1,220.2	1,232.7	
Commercial machines and equipment	5081	540.4	542.6	573.7	576.4		-	-	-	-	
Construction and mining machinery	5082	77.5	78.3	80.2	81.0		-	-	-	-	
Farm machinery and equipment	5083	115.4	116.8	121.0	123.0		-	-	-	-	
Industrial machinery and equipment	5084	301.4	302.8	316.7	321.7		-	-	-	-	
Industrial supplies	5085	128.4	128.9	135.4	136.3		-	-	-	-	
Professional equipment and supplies	5086	176.0	177.2	187.2	187.5		-	-	-	-	
Miscellaneous durable goods	509	195.2	198.3	210.1	211.2		155.9	158.7	169.6	170.5	
Scrap and waste materials	5093	87.7	89.2	96.4	97.4		-	-	-	-	
Nondurable goods	51	2,413	2,439	2,462	2,476	2,503	1,960	1,986	2,007	2,018	
Paper and paper products	511	201.4	202.3	209.0	210.3	-	164.1	165.1	169.5	169.9	
Drugs, proprietaries, and sundries	512	165.4	166.2	173.8	172.2		137.7	138.5	145.9	144.0	
Apparel, piece goods, and notions	513	197.5	200.1	199.9	200.0		147.0	150.1	152.9	153.2	
Groceries and related products	514	781.2	797.0	786.4	793.4		660.6	675.1	664.0	670.7	
Groceries, general line	5141	248.4	251.3	253.0	254.5		-	-	-	-	
Meats and meat products	5147	65.2	65.6	64.0	64.0		-	-	-	-	
Fresh fruits and vegetables	5148	98.0	103.2	98.1	101.2		-	-	-	-	
Chemicals and allied products	516	129.5	130.8	131.7	132.5		94.6	95.7	98.0	98.2	
Petroleum and petroleum products	517	197.0	198.6	201.2	202.2		153.9	154.7	157.3	158.1	
Petroleum bulk stations and terminals	5171	82.7	83.6	85.9	86.2		-	-	-	-	
Petroleum products, nec	5172	114.3	115.0	115.3	116.0		-	-	-	-	
Beer, wine, and distilled beverages	518	151.2	153.4	152.4	154.3		124.6	126.6	125.2	126.8	
Beer and ale	5181	95.1	97.0	95.4	97.0		-	-	-	-	
Wines and distilled beverages	5182	56.1	56.4	57.0	57.3		-	-	-	-	
Miscellaneous nondurable goods	519	466.0	465.6	481.5	486.9		377.1	377.9	391.3	397.0	
Farm supplies	5191	155.5	153.6	163.6	165.7		-	-	-	-	
Retail trade		18,413	18,629	18,883	19,124	19,354	16,381	16,572	16,729	16,941	17,131
Building materials and garden supplies	52	759.6	770.6	773.3	789.8		634.2	642.2	641.3	655.7	
Lumber and other building materials	521	412.2	425.1	415.6	423.6		349.5	360.6	349.3	356.1	
Hardware stores	525	157.8	158.7	162.9	165.3		131.8	132.5	135.2	136.7	
General merchandise stores	53	2,337.5	2,358.3	2,448.9	2,462.2	2,481.9	2,195.8	2,211.3	2,269.2	2,279.8	
Department stores	531	1,949.1	1,965.3	2,038.6	2,048.1	-	1,848.4	1,859.7	1,903.8	1,909.8	
Variety stores	533	235.1	236.6	242.2	243.1		214.2	215.8	219.9	221.7	
Misc. general merchandise stores	539	153.3	156.4	168.1	171.0		133.2	135.8	145.5	148.3	
Food stores	54	2,943.9	2,968.7	3,015.1	3,041.5	3,084.9	2,712.9	2,736.4	2,770.4	2,792.9	
Grocery stores	541	2,592.3	2,613.3	2,660.8	2,683.2	-	2,398.5	2,419.2	2,458.4	2,478.2	
Meat markets and freezer provisioners	542	56.7	58.0	58.2	58.7		-	-	-	-	
Dairy products stores	545	29.7	29.8	23.4	24.4		-	-	-	-	
Retail bakeries	546	170.6	172.6	175.3	178.3		155.3	157.2	158.6	161.6	
Automotive dealers and service stations	55	1,999.2	2,022.9	2,055.4	2,074.2	2,099.2	1,678.6	1,699.5	1,717.8	1,732.9	
New and used car dealers	551,2	974.3	982.2	1,001.9	1,005.3	-	810.3	817.2	829.5	832.5	
Auto and home supply stores	553	315.3	320.9	325.1	327.7		255.0	260.1	262.9	265.6	
Gasoline service stations	554	609.3	614.8	622.8	630.2		532.0	536.7	540.8	545.1	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a	May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a
Retail trade—Continued											
Apparel and accessory stores	56	1,086.5	1,100.9	1,078.3	1,082.9		917.7	931.6	910.2	915.1	
Men's and boys' clothing and furnishings	561	105.5	106.2	104.2	104.1		86.2	87.1	85.0	85.0	
Women's ready-to-wear stores	562	386.1	386.7	376.5	380.9		328.7	329.4	317.6	320.9	
Family clothing stores	565	247.4	256.7	248.9	250.4		213.8	222.9	216.2	217.5	
Shoe stores	566	217.0	218.4	216.9	217.1		176.8	178.2	179.6	181.2	
Furniture and home furnishings stores	57	785.8	792.8	817.2	817.1		652.6	657.9	669.8	668.8	
Furniture and home furnishings stores	571	439.8	444.7	452.0	455.4		362.6	367.0	367.2	369.9	
Furniture stores	5712	273.8	275.7	281.6	282.9		-	-	-	-	
Household appliance stores	572	85.4	87.6	94.4	91.6		73.0	74.4	80.6	78.3	
Radio, television, and music stores	573	260.6	260.5	270.8	270.1		217.0	216.5	222.0	220.6	
Radio and television stores	5732	189.3	190.3	193.8	193.1		-	-	-	-	
Music stores	5733	71.3	70.2	77.0	77.0		-	-	-	-	
Eating and drinking places	58	6,196.4	6,311.6	6,313.3	6,450.2	6,566.5	5,647.1	5,754.0	5,751.2	5,875.8	
Miscellaneous retail	59	2,304.5	2,303.1	2,381.4	2,406.3		1,941.7	1,939.1	1,998.7	2,019.6	
Drug stores and proprietary stores	591	574.1	579.5	588.2	590.3		489.0	494.0	500.9	502.8	
Liquor stores	592	122.2	122.8	123.1	122.9		-	-	-	-	
Miscellaneous shopping goods stores	594	754.1	756.8	779.1	784.8		630.1	631.2	649.1	654.0	
Sporting goods and bicycle shops	5941	128.3	129.3	138.0	138.1		-	-	-	-	
Book stores	5942	77.5	73.4	78.5	78.0		-	-	-	-	
Stationery stores	5943	75.5	75.1	76.8	76.8		-	-	-	-	
Jewelry stores	5944	145.3	146.4	151.4	151.7		-	-	-	-	
Gift, novelty, and souvenir shops	5947	153.7	157.9	152.1	159.9		-	-	-	-	
Sewing, needlework, and piece goods	5949	61.4	61.3	61.1	60.4		-	-	-	-	
Nonstore retailers	596	270.5	272.0	279.0	277.8		243.6	244.8	249.0	247.1	
Mail order houses	5961	125.6	126.0	127.5	126.8		-	-	-	-	
Merchandising machine operators	5962	87.1	86.8	90.0	90.2		-	-	-	-	
Fuel and ice dealers	598	105.0	105.2	112.1	110.4		87.1	87.1	93.5	91.7	
Retail stores, nec	599	394.1	381.9	411.5	430.7		323.5	312.6	333.3	350.2	
Finance, insurance, and real estate³		6,539	6,616	6,628	6,651	6,729	4,811	4,874	4,804	4,822	4,890
Finance		3,267	3,301	3,292	3,292	3,322					
Banking	60	1,732.6	1,744.3	1,728.8	1,726.7		1,247.4	1,259.0	1,236.3	1,235.5	
Commercial and stock savings banks	602	1,559.6	1,573.9	1,554.2	1,552.0		1,118.7	1,132.1	1,107.9	1,107.5	
State banks, Federal Reserve	6022	341.4	344.2	343.9	341.6		-	-	-	-	
State banks, not Federal Reserve	6023,4	370.4	375.3	372.7	373.1		-	-	-	-	
Mutual savings banks	603	83.8	85.6	84.9	84.7		-	-	-	-	
Credit agencies other than banks	61	894.1	903.2	889.1	891.5		670.1	678.0	660.2	662.0	
Savings and loan associations	612	394.5	398.8	393.9	393.4		301.0	305.0	298.7	298.2	
Federal savings and loan associations	6122	219.4	221.5	221.8	222.0		-	-	-	-	
State associations, insured	6123	170.1	172.2	167.4	166.7		-	-	-	-	
Personal credit institutions	614	235.6	238.0	244.8	245.6		182.0	183.7	188.5	189.7	
Business credit institutions	615	54.9	55.5	62.8	63.5		-	-	-	-	
Mortgage bankers and brokers	616	183.8	185.8	164.4	166.1		-	-	-	-	
Security, commodity brokers, and services	62	437.3	448.6	460.8	459.5		-	-	-	-	
Security brokers and dealers	621	343.2	352.0	356.7	355.1		-	-	-	-	
Holding and other investment offices	67	202.6	205.0	213.2	214.1		-	-	-	-	
Insurance		2,016	2,025	2,063	2,066	2,075					
Insurance carriers	63	1,412.7	1,420.3	1,443.7	1,445.7		956.2	962.9	963.5	963.4	
Life insurance	631	579.9	582.4	591.6	592.2		357.5	360.5	355.2	355.1	
Medical service and health insurance	632	198.1	198.4	201.8	201.7		159.3	159.7	163.1	163.4	
Fire, marine, and casualty insurance	633	524.6	529.2	547.6	548.8		354.1	357.3	367.6	367.4	
Title insurance	636	63.8	63.4	56.0	56.4		-	-	-	-	
Insurance agents, brokers, and service	64	603.5	604.4	618.8	620.6		-	-	-	-	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Finance, insurance, and real estate—Continued											
Real estate, and combined real estate, insurance, etc		1,256	1,290	1,273	1,293	1,332					
Real estate	65	1,245.4	1,279.1	1,262.8	1,283.2						
Real estate operators and lessors	651	529.9	543.0	533.3	541.9						
Real estate agents and managers	653	518.5	536.4	540.9	544.0						
Subdividers and developers	655	162.7	164.8	156.0	164.5						
Combined real estate, insurance, etc	66	10.4	10.4	10.0	9.9						
Services		24,170	24,341	25,238	25,358	25,593	21,199	21,340	22,053	22,146	22,346
Hotels and other lodging places	70	1,475.4	1,556.1	1,530.4	1,571.8		-	-	-	-	
Hotels, motels, and tourist courts	701	1,434.4	1,493.8	1,487.6	1,525.6		1,282.2	1,338.5	1,323.3	1,359.8	
Personal services	72	1,137.5	1,132.8	1,252.2	1,203.0		-	-	-	-	
Laundry, cleaning, and garment services	721	404.1	407.5	410.7	415.0		360.0	362.8	365.3	369.4	
Photographic studios, portrait	722	52.3	52.6	55.4	54.4		-	-	-	-	
Beauty shops	723	352.9	353.9	358.8	358.2		318.8	318.9	320.6	319.6	
Funeral service and crematories	726	78.1	77.7	77.9	77.6		-	-	-	-	
Business services	73	5,149.6	5,188.8	5,381.9	5,431.0	5,501.6	4,412.1	4,443.2	4,599.7	4,640.6	
Advertising	731	210.5	211.0	212.8	213.1	-	156.2	157.7	158.8	158.2	
Advertising agencies	7311	154.8	155.6	157.4	157.1		-	-	-	-	
Credit reporting and collection	732	100.0	100.0	95.3	95.1		-	-	-	-	
Mailing, reproduction, and stenographic	733	207.9	208.3	232.8	233.0		-	-	-	-	
Services to buildings	734	718.7	721.4	720.4	717.4		648.7	651.9	653.0	649.5	
Personnel supply services	736	1,186.4	1,198.3	1,254.6	1,286.5		-	-	-	-	
Employment agencies	7361	181.5	182.3	188.3	189.2		-	-	-	-	
Temporary help supply services	7362	932.2	940.7	983.2	1,015.4		-	-	-	-	
Computer and data processing services	737	640.2	644.9	711.4	711.6		502.2	506.0	556.1	555.6	
Computer programming and software	7372	237.2	241.0	272.4	274.3		-	-	-	-	
Data processing services	7374	296.2	297.9	321.4	319.5		-	-	-	-	
Miscellaneous business services	739	2,076.7	2,095.7	2,145.0	2,164.5		-	-	-	-	
Research development laboratories, nec	7391	193.7	196.6	197.4	197.9		-	-	-	-	
Management and public relations	7392	583.9	587.6	612.8	614.2		-	-	-	-	
Detective and protective services	7393	453.1	454.6	463.3	468.7		-	-	-	-	
Equipment rental and leasing	7394	243.5	248.7	252.6	256.8		-	-	-	-	
Photofinishing laboratories	7395	78.6	81.1	76.5	77.8		-	-	-	-	
Auto repair, services, and garages	75	794.8	804.2	818.8	831.1		664.0	670.9	680.6	687.3	
Automotive rentals, without drivers	751	162.0	165.2	161.2	169.2		-	-	-	-	
Automotive repair shops	753	468.8	478.0	493.0	497.7		386.7	394.4	406.9	410.1	
Miscellaneous repair services	76	316.0	319.0	335.8	337.5		262.4	264.9	276.8	278.3	
Electrical repair shops	762	100.8	102.8	108.8	109.8		-	-	-	-	
Motion pictures	78	235.4	234.8	229.2	231.1		198.1	196.7	190.9	190.4	
Motion picture production and services	781	115.1	107.2	107.9	106.5		92.4	84.2	84.6	81.0	
Motion picture theaters	783	106.9	114.0	105.9	109.0		-	-	-	-	
Amusement and recreation services	79	929.2	1,021.5	905.1	966.8		823.6	912.9	766.1	821.5	
Health services	80	6,767.7	6,831.3	7,112.1	7,142.5	7,226.5	6,018.1	6,077.9	6,318.2	6,345.9	
Offices of physicians	801	1,036.5	1,046.7	1,116.3	1,123.7	-	853.9	864.4	915.2	921.2	
Offices of dentists	802	467.8	472.6	484.0	488.5		412.3	416.1	425.6	429.8	
Nursing and personal care facilities	805	1,280.8	1,292.4	1,310.7	1,313.2		1,156.8	1,167.7	1,182.6	1,184.9	
Skilled nursing care facilities	8051	858.1	866.4	878.0	879.3		-	-	-	-	
Nursing and personal care, nec	8059	422.7	426.0	432.7	433.9		-	-	-	-	
Hospitals	806	3,122.5	3,153.2	3,291.7	3,299.9		2,847.0	2,876.3	3,005.9	3,015.1	
General medical and surgical hospitals	8062	2,911.7	2,940.5	3,067.5	3,074.8		-	-	-	-	
Psychiatric hospitals	8063	74.6	75.6	80.7	81.8		-	-	-	-	
Specialty hospitals, excluding psychiatric	8069	136.2	137.1	143.5	143.3		-	-	-	-	
Medical and dental laboratories	807	133.5	135.1	144.9	145.8		-	-	-	-	
Outpatient care facilities	808	262.8	265.1	278.9	282.9		-	-	-	-	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Services—Continued											
Legal services	81	786.7	812.7	811.1	809.3		661.9	684.1	678.0	677.7	
Educational services	82	1,464.5	1,296.9	1,567.1	1,509.3						
Elementary and secondary schools	821	378.7	358.1	383.9	386.0						
Colleges and universities	822	923.0	776.8	1,009.9	949.8						
Correspondence and vocational schools	824	77.6	76.5	80.6	80.2						
Social services	83	1,499.4	1,468.1	1,584.4	1,593.9						
Individual and family services	832	299.4	299.0	304.7	305.7						
Job training and related services	833	220.1	227.0	230.0	232.7						
Residential care	836	345.4	351.4	367.2	369.5						
Museums, botanical and zoological gardens	84	49.1	50.2	49.8	51.2						
Membership organizations	86	1,574.1	1,602.1	1,593.2	1,602.0						
Business associations	861	92.7	93.7	92.2	92.7						
Labor organizations	863	133.3	134.8	133.7	136.2						
Civic and social associations	864	359.1	380.1	375.3	378.5						
Miscellaneous services	89	1,308.5	1,324.2	1,389.8	1,377.9		1,062.0	1,078.2	1,123.7	1,110.1	
Engineering and architectural services	891	710.5	724.9	739.3	748.2		597.6	611.1	616.8	624.2	
Noncommercial research organizations	892	120.8	122.7	124.8	125.9		-	-	-	-	
Accounting, auditing, and bookkeeping	893	449.0	448.0	497.9	475.8		347.9	347.4	386.9	364.8	
Government		17,303	17,051	17,654	17,696	17,363					
Federal Government⁴		2,947	2,976	2,963	2,972	2,979					
Executive, by agency ⁴		2,889.8	2,917.5	2,905.2							
Department of Defense		981.9	993.6	967.5							
Postal Service ⁵		813.6	816.3	827.2							
Other executive agencies		1,094.3	1,107.6	1,110.5							
Legislative		37.8	39.2	37.9							
Judicial		19.4	19.6	20.0							
Federal government, by industry:											
Manufacturing activities		125.2	125.6	122.7	123.2						
Shipbuilding and repairing	3731	76.3	76.6	74.9	74.9						
Transportation and public utilities, except Postal Service		39.8	39.4	40.5	39.8						
Services		417.3	425.1	414.0	417.0						
Hospitals	806	251.4	254.6	249.2	249.1						
State government		4,010	3,832	4,150	4,098	3,920					
Hospitals	806	437.1	439.9	445.1	444.3	-					
Education	82	1,648.0	1,439.9	1,737.2	1,674.0						
General administration, including executive, legislative, and judicial functions		1,390.4	1,408.1	1,426.5	1,430.1						
Local government		10,346	10,243	10,541	10,626	10,464					
Transportation and public utilities		488.0	491.6	489.1	492.3	-					
Hospitals	806	604.7	611.3	629.2	631.8						
Education	82	5,899.6	5,641.2	6,024.9	6,056.4						
General administration, including executive, legislative, and judicial functions		3,026.0	3,147.7	3,057.9	3,104.3						

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 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 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	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988	Apr. 1988
Total	46,714	47,069	48,375	48,704	48,985
Total private	37,842	38,181	39,283	39,531	39,822
Goods-producing	6,765	6,796	6,963	6,991	7,021
Mining	95	95	96	96	97
Construction	507	516	534	542	553
Manufacturing	6,163	6,185	6,333	6,353	6,371
Durable goods	2,968	2,975	3,048	3,060	3,073
Lumber and wood products	114	115	119	120	121
Furniture and fixtures	159	160	167	166	167
Stone, clay, and glass products	113	113	115	115	116
Primary metal industries	101	101	105	105	106
Fabricated metal products	315	317	324	325	327
Machinery, except electrical	444	448	467	470	473
Electrical and electronic equipment	862	860	879	881	882
Transportation equipment	397	396	392	393	395
Instruments and related products	299	299	308	308	308
Miscellaneous manufacturing	165	166	173	176	177
Nondurable goods	3,195	3,210	3,285	3,293	3,298
Food and kindred products	485	486	500	498	499
Tobacco manufactures	17	16	18	17	16
Textile mill products	348	349	351	351	350
Apparel and other textile products	871	875	880	881	879
Paper and allied products	162	162	164	165	166
Printing and publishing	637	642	665	670	674
Chemicals and allied products	289	289	302	304	306
Petroleum and coal products	24	24	23	24	24
Rubber and misc. plastics products	281	282	296	298	300
Leather and leather products	82	84	85	86	85
Service-producing	39,949	40,273	41,412	41,713	41,964
Transportation and public utilities	1,512	1,525	1,581	1,594	1,604
Wholesale trade	1,704	1,711	1,790	1,802	1,806
Retail trade	9,424	9,583	9,815	9,840	9,968
Finance, insurance, and real estate	4,030	4,058	4,113	4,130	4,137
Services	14,407	14,508	15,021	15,174	15,286
Government	8,872	8,888	9,091	9,173	9,163
Federal	1,038	1,043	1,053	1,057	1,057
State	1,958	1,962	2,008	2,023	2,029
Local	5,876	5,883	6,030	6,093	6,077

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1987 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	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May ^p	June ^p
Total	102,078	102,430	102,672	102,906	103,371	103,678	104,001	104,262	104,729	105,020	105,281	105,502	105,848
Total private	85,094	85,421	85,656	85,851	86,241	86,520	86,794	87,044	87,475	87,700	87,973	88,144	88,547
Goods-producing	24,684	24,788	24,851	24,902	25,025	25,123	25,201	25,180	25,271	25,330	25,435	25,464	25,569
Mining	719	722	728	734	740	736	735	728	731	733	737	737	741
Oil and gas extraction	404	408	412	417	421	418	417	414	415	419	421	424	426
Construction	4,983	4,997	5,012	5,012	5,060	5,090	5,118	5,083	5,150	5,192	5,238	5,238	5,294
General building contractors	1,319	1,320	1,326	1,328	1,340	1,348	1,352	1,385	1,377	1,383	1,400	1,395	1,408
Manufacturing	18,982	19,069	19,111	19,156	19,225	19,297	19,348	19,369	19,390	19,405	19,460	19,489	19,534
Durable goods	11,166	11,190	11,246	11,269	11,315	11,355	11,390	11,393	11,404	11,411	11,459	11,475	11,508
Lumber and wood products	736	740	739	744	744	750	754	754	756	755	758	756	756
Furniture and fixtures	516	524	524	526	529	531	533	536	535	534	535	537	539
Stone, clay, and glass products	580	579	580	580	583	585	588	583	584	585	587	585	586
Primary metal industries	746	751	755	761	766	768	769	768	770	772	773	777	781
Blast furnaces and basic steel products	271	272	274	276	278	279	279	279	280	281	281	281	281
Fabricated metal products	1,400	1,404	1,405	1,412	1,421	1,429	1,433	1,435	1,438	1,439	1,444	1,448	1,456
Machinery, except electrical	2,013	2,020	2,031	2,039	2,049	2,062	2,074	2,085	2,091	2,099	2,111	2,118	2,132
Electrical and electronic equipment	2,066	2,075	2,081	2,085	2,094	2,100	2,110	2,112	2,112	2,115	2,117	2,115	2,118
Transportation equipment	2,047	2,032	2,063	2,052	2,052	2,047	2,046	2,036	2,031	2,025	2,045	2,049	2,051
Motor vehicles and equipment	867	842	874	860	859	854	851	839	837	835	848	852	851
Instruments and related products	694	695	696	696	700	704	704	704	705	705	706	709	708
Miscellaneous manufacturing	368	370	372	374	377	379	379	380	382	382	383	381	381
Nondurable goods	7,816	7,879	7,865	7,887	7,910	7,942	7,958	7,976	7,986	7,994	8,001	8,014	8,026
Food and kindred products	1,621	1,629	1,625	1,627	1,630	1,636	1,638	1,647	1,649	1,647	1,648	1,644	1,649
Tobacco manufactures	55	55	54	53	52	54	54	55	54	54	54	52	53
Textile mill products	724	730	728	730	731	733	733	732	732	729	727	728	725
Apparel and other textile products	1,098	1,116	1,098	1,104	1,106	1,110	1,106	1,105	1,104	1,106	1,100	1,100	1,097
Paper and allied products	677	678	680	682	682	683	684	685	686	686	687	689	689
Printing and publishing	1,505	1,510	1,514	1,518	1,522	1,528	1,532	1,538	1,544	1,548	1,554	1,558	1,564
Chemicals and allied products	1,014	1,025	1,029	1,032	1,036	1,041	1,047	1,049	1,052	1,052	1,056	1,061	1,064
Petroleum and coal products	165	165	165	166	167	167	167	166	165	164	165	166	165
Rubber and misc. plastics products	815	824	827	830	839	845	851	854	856	860	864	870	873
Leather and leather products	142	147	145	145	145	145	146	147	147	147	146	146	147
Service-producing	77,394	77,642	77,821	78,004	78,346	78,555	78,800	79,082	79,458	79,690	79,846	80,038	80,279
Transportation and public utilities	5,363	5,373	5,394	5,427	5,448	5,466	5,481	5,499	5,513	5,530	5,543	5,558	5,581
Transportation	3,153	3,151	3,171	3,201	3,214	3,231	3,244	3,261	3,272	3,285	3,298	3,311	3,330
Communication and public utilities	2,210	2,222	2,223	2,226	2,234	2,235	2,237	2,238	2,241	2,245	2,245	2,247	2,251
Wholesale trade	5,860	5,874	5,892	5,914	5,935	5,958	5,984	6,010	6,035	6,061	6,089	6,116	6,142
Durable goods	3,434	3,450	3,463	3,478	3,498	3,514	3,536	3,555	3,573	3,591	3,610	3,635	3,654
Nondurable goods	2,426	2,424	2,429	2,436	2,437	2,444	2,448	2,455	2,462	2,470	2,479	2,481	2,488
Retail trade	18,481	18,543	18,569	18,605	18,705	18,761	18,784	18,927	19,045	19,050	19,093	19,124	19,200
General merchandise stores	2,418	2,437	2,449	2,457	2,489	2,495	2,494	2,526	2,561	2,543	2,546	2,541	2,546
Food stores	2,962	2,962	2,961	2,958	2,971	2,979	2,988	3,014	3,029	3,044	3,049	3,054	3,076
Automotive dealers and service stations	2,001	2,007	2,010	2,015	2,026	2,026	2,033	2,038	2,047	2,055	2,064	2,068	2,076
Eating and drinking places	6,109	6,128	6,143	6,152	6,191	6,216	6,232	6,260	6,291	6,319	6,326	6,336	6,357
Finance, insurance, and real estate	6,553	6,570	6,581	6,588	6,604	6,608	6,619	6,633	6,636	6,651	6,650	6,650	6,665
Finance	3,280	3,288	3,289	3,292	3,295	3,299	3,301	3,308	3,305	3,306	3,302	3,299	3,302
Insurance	2,019	2,024	2,029	2,032	2,043	2,042	2,049	2,052	2,053	2,060	2,065	2,066	2,069
Real estate	1,254	1,258	1,263	1,264	1,266	1,267	1,269	1,273	1,278	1,285	1,283	1,285	1,294
Services	24,153	24,273	24,369	24,415	24,524	24,604	24,725	24,795	24,975	25,078	25,163	25,232	25,390
Business services	5,164	5,179	5,212	5,233	5,282	5,287	5,306	5,321	5,385	5,405	5,420	5,442	5,474
Health services	6,806	6,836	6,875	6,894	6,928	6,962	6,995	7,019	7,056	7,088	7,126	7,150	7,198
Government	16,984	17,009	17,016	17,055	17,130	17,158	17,207	17,218	17,254	17,320	17,308	17,358	17,301
Federal	2,939	2,941	2,943	2,962	2,966	2,974	2,980	2,973	2,972	2,970	2,963	2,960	2,944
State	3,946	3,965	3,971	3,973	3,985	3,988	4,001	4,006	4,014	4,031	4,041	4,041	4,037
Local	10,099	10,103	10,102	10,120	10,179	10,196	10,226	10,239	10,268	10,319	10,304	10,357	10,320

^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1987

benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1987									1988			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Total	46,962	47,076	47,254	47,458	47,582	47,700	47,941	48,072	48,240	48,396	48,615	48,772	48,865
Total private	38,333	38,443	38,581	38,776	38,893	38,985	39,170	39,295	39,425	39,573	39,767	39,881	39,969
Goods-producing	6,832	6,846	6,859	6,909	6,905	6,931	6,963	6,990	7,007	7,022	7,028	7,040	7,058
Mining	95	95	95	96	96	96	96	96	96	96	96	96	97
Construction	521	525	528	531	533	536	538	542	543	546	549	552	558
Manufacturing	6,216	6,226	6,236	6,282	6,276	6,299	6,329	6,352	6,368	6,380	6,383	6,392	6,403
Durable goods	2,979	2,982	2,987	2,997	3,011	3,024	3,038	3,045	3,056	3,059	3,062	3,067	3,077
Lumber and wood products	116	117	117	119	118	119	120	120	121	122	122	122	123
Furniture and fixtures	159	161	162	165	164	165	166	166	166	167	166	166	166
Stone, clay, and glass products	114	114	114	114	114	114	115	115	116	116	116	116	117
Primary metal industries	100	100	101	101	103	103	104	104	105	104	105	104	105
Fabricated metal products	317	317	318	319	320	321	322	323	324	325	325	326	327
Machinery, except electrical	447	446	447	450	454	456	458	460	463	466	467	469	471
Electrical and electronic equipment	864	863	863	867	870	873	877	878	881	882	882	885	886
Transportation equipment	396	396	396	391	396	398	398	398	399	396	393	393	396
Instruments and related products	299	300	300	301	301	303	304	306	306	306	308	308	308
Miscellaneous manufacturing	167	168	169	170	171	172	174	175	175	175	178	178	178
Nondurable goods	3,237	3,244	3,249	3,285	3,265	3,275	3,291	3,307	3,312	3,321	3,321	3,325	3,326
Food and kindred products	514	513	514	520	514	515	518	521	521	528	528	526	528
Tobacco manufactures	18	18	18	17	16	17	17	17	18	18	18	17	17
Textile mill products	349	350	351	354	353	353	353	354	354	353	353	352	350
Apparel and other textile products	871	873	876	892	876	880	883	886	883	881	879	880	875
Paper and allied products	163	164	163	163	164	165	165	166	167	167	167	167	167
Printing and publishing	641	643	645	647	650	651	654	658	660	664	666	669	672
Chemicals and allied products	291	292	291	295	296	297	299	301	303	303	304	305	307
Petroleum and coal products	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rubber and misc. plastics products	282	282	282	285	286	287	291	293	296	296	296	298	300
Leather and leather products	84	85	85	88	86	86	87	87	86	87	86	87	86
Service-producing	40,130	40,230	40,395	40,549	40,677	40,769	40,978	41,082	41,233	41,374	41,587	41,732	41,807
Transportation and public utilities	1,525	1,532	1,540	1,542	1,551	1,559	1,568	1,572	1,576	1,580	1,588	1,599	1,602
Wholesale trade	1,719	1,724	1,731	1,739	1,749	1,756	1,762	1,774	1,785	1,795	1,802	1,813	1,813
Retail trade	9,741	9,751	9,789	9,827	9,856	9,876	9,925	9,955	9,972	10,056	10,127	10,123	10,130
Finance, insurance, and real estate	4,064	4,076	4,088	4,101	4,105	4,108	4,120	4,126	4,131	4,139	4,139	4,147	4,141
Services	14,452	14,514	14,574	14,658	14,727	14,755	14,832	14,878	14,954	14,981	15,083	15,159	15,225
Government	8,629	8,633	8,673	8,682	8,689	8,715	8,771	8,777	8,815	8,823	8,848	8,891	8,896
Federal	1,044	1,045	1,045	1,045	1,049	1,056	1,057	1,060	1,062	1,060	1,061	1,061	1,057
State	1,904	1,908	1,913	1,925	1,929	1,927	1,935	1,937	1,945	1,947	1,952	1,960	1,968
Local	5,681	5,680	5,715	5,712	5,711	5,732	5,779	5,780	5,808	5,816	5,835	5,870	5,871

* This series is 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.

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May ^p	June ^p
Total private	68,890	69,155	69,343	69,463	69,766	69,988	70,234	70,405	70,787	70,961	71,170	71,262	71,598
Goods-producing	17,334	17,417	17,468	17,506	17,601	17,678	17,743	17,698	17,798	17,839	17,909	17,927	18,019
Mining	512	517	522	528	534	531	530	524	527	529	533	533	534
Construction	3,883	3,894	3,908	3,903	3,949	3,972	3,998	3,949	4,022	4,059	4,096	4,091	4,136
Manufacturing	12,939	13,006	13,038	13,075	13,118	13,175	13,215	13,225	13,249	13,251	13,280	13,303	13,349
Durable goods	7,417	7,432	7,483	7,499	7,532	7,564	7,590	7,582	7,599	7,598	7,632	7,648	7,683
Lumber and wood products	616	619	617	621	621	627	630	629	631	631	633	632	632
Furniture and fixtures	413	420	419	420	424	425	427	428	427	426	427	430	430
Stone, clay, and glass products	448	448	448	449	451	453	457	453	454	455	457	455	456
Primary metal industries	561	565	571	577	580	584	584	583	586	588	591	594	598
Blast furnaces and basic steel products	205	206	207	210	212	213	213	214	216	217	219	218	218
Fabricated metal products	1,038	1,040	1,043	1,050	1,055	1,063	1,068	1,068	1,071	1,071	1,073	1,079	1,087
Machinery, except electrical	1,192	1,197	1,207	1,213	1,221	1,230	1,238	1,244	1,250	1,256	1,262	1,270	1,277
Electrical and electronic equipment	1,211	1,221	1,224	1,225	1,233	1,235	1,241	1,240	1,241	1,242	1,244	1,243	1,252
Transportation equipment	1,293	1,274	1,305	1,292	1,290	1,285	1,283	1,273	1,271	1,261	1,276	1,276	1,281
Motor vehicles and equipment	675	652	684	670	669	665	661	651	649	648	658	661	663
Instruments and related products	376	378	378	380	383	385	385	387	388	388	389	391	392
Miscellaneous manufacturing	269	270	271	272	274	277	277	277	280	280	280	278	278
Nondurable goods	5,522	5,574	5,555	5,576	5,586	5,611	5,625	5,643	5,650	5,653	5,648	5,655	5,666
Food and kindred products	1,148	1,153	1,149	1,151	1,153	1,159	1,161	1,169	1,172	1,168	1,169	1,166	1,171
Tobacco manufactures	41	42	41	39	39	40	41	42	41	41	40	39	40
Textile mill products	628	635	632	634	634	636	636	636	636	634	632	632	629
Apparel and other textile products	923	939	922	927	929	932	930	929	928	930	926	926	922
Paper and allied products	514	516	516	520	518	518	519	520	521	521	520	520	522
Printing and publishing	840	842	846	849	851	856	858	863	867	870	871	871	875
Chemicals and allied products	569	576	579	582	582	585	589	589	589	592	593	597	599
Petroleum and coal products	108	108	108	109	109	109	109	109	108	107	107	108	108
Rubber and misc. plastics products	632	639	641	644	650	655	661	664	666	669	670	675	679
Leather and leather products	119	124	121	121	121	121	121	122	122	121	120	121	121
Service-producing	51,556	51,738	51,875	51,957	52,165	52,310	52,491	52,707	52,989	53,122	53,261	53,335	53,579
Transportation and public utilities	4,450	4,460	4,477	4,502	4,517	4,533	4,545	4,560	4,574	4,587	4,600	4,614	4,638
Wholesale trade	4,695	4,706	4,720	4,736	4,752	4,777	4,802	4,825	4,848	4,881	4,902	4,922	4,945
Retail trade	16,433	16,486	16,508	16,520	16,610	16,651	16,671	16,795	16,902	16,897	16,949	16,941	16,995
Finance, insurance, and real estate	4,815	4,819	4,822	4,821	4,822	4,818	4,824	4,831	4,827	4,825	4,823	4,822	4,832
Services	21,163	21,267	21,348	21,378	21,464	21,531	21,649	21,696	21,838	21,932	21,987	22,036	22,169

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 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1986.....	57.0	47.3	49.5	50.8	51.9	46.8	51.9	54.1	51.4	53.0	58.9	58.9
	1987.....	50.8	59.2	61.1	62.4	62.4	61.6	70.8	62.2	68.1	67.3	67.8	68.4
	1988.....	61.6	61.6	62.2	63.8	^P 57.6	^P 65.4						
Over 3-month span	1986.....	50.0	47.6	45.7	46.2	46.2	46.2	48.1	51.9	50.5	55.9	59.7	59.2
	1987.....	57.6	57.0	65.1	69.2	68.1	71.9	73.8	76.8	74.1	76.5	78.1	73.0
	1988.....	71.6	66.8	67.0	^P 67.0	^P 67.6							
Over 6-month span	1986.....	48.1	47.3	43.8	42.7	43.2	47.0	46.5	50.0	55.9	53.2	55.9	58.4
	1987.....	64.6	64.3	63.0	70.3	72.4	77.3	78.4	79.7	82.7	77.8	77.0	76.5
	1988.....	73.5	^P 70.0	^P 68.4									
Over 12-month span	1986.....	42.2	41.6	43.8	44.9	45.7	48.6	46.8	48.6	51.6	53.8	56.5	57.8
	1987.....	63.8	67.3	69.5	73.5	76.8	76.8	78.9	78.9	79.7	78.4	^P 78.1	^P 80.8
	1988.....												

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 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Alabama	1,504.8	1,519.7	1,527.1	11.3	11.4	11.4	74.2	73.3	75.0
Birmingham	391.6	401.4	403.3	5.7	5.7	5.8	23.2	25.0	26.1
Huntsville	122.4	126.0	127.3	.1	.1	.1	5.4	5.3	5.5
Mobile	161.7	162.4	163.4	.5	.5	.5	9.4	9.3	9.5
Montgomery	124.8	126.9	126.6	.2	.2	.2	7.5	8.1	8.3
Tuscaloosa	57.8	60.0	59.7	2.4	2.5	2.5	3.0	3.1	3.1
Alaska	212.6	204.3	208.7	8.5	9.0	9.1	10.5	8.2	9.0
Arizona	1,389.8	1,423.2	1,421.3	11.4	11.9	12.0	104.1	93.9	94.7
Phoenix	914.2	935.8	936.0	.6	.6	.6	70.3	62.7	63.3
Tucson	245.4	251.5	250.2	1.6	1.7	1.8	19.8	18.5	18.5
Arkansas	837.8	858.0	860.1	4.1	4.1	4.3	35.3	33.9	34.7
Fayetteville-Springdale	47.4	50.1	50.0	(¹)	(¹)	(¹)	2.0	1.8	1.9
Fort Smith	77.0	78.4	78.7	.9	1.0	1.0	3.0	2.8	2.8
Little Rock-North Little Rock	229.5	234.1	235.5	.4	.4	.4	11.0	11.0	11.4
Pine Bluff	32.2	33.0	32.8	(¹)	(¹)	(¹)	1.7	1.7	1.8
California	11,621.7	11,989.7	12,052.2	40.1	41.1	41.3	575.7	611.0	625.7
Anaheim-Santa Ana	1,084.5	1,108.0	1,112.4	1.9	1.3	1.3	62.9	63.8	64.9
Bakersfield	157.9	160.9	161.1	12.6	13.5	13.6	9.5	8.9	9.0
Fresno	202.6	208.6	209.1	.6	.6	.7	12.8	12.4	12.5
Los Angeles-Long Beach	4,002.0	4,087.0	4,093.6	9.3	9.5	9.5	146.0	152.9	155.0
Modesto	102.1	107.2	108.1	(¹)	(¹)	(¹)	6.8	6.6	6.9
Oakland	809.4	827.9	829.0	3.2	3.2	3.2	46.7	49.9	50.5
Oxnard-Ventura	203.4	210.6	212.3	2.6	2.7	2.8	12.4	12.8	13.3
Riverside-San Bernardino	601.2	634.8	637.5	1.2	1.3	1.3	50.2	53.2	54.7
Sacramento	545.9	571.0	574.8	.8	.8	.8	32.2	34.5	35.4
San Diego	860.5	895.2	901.4	.8	.8	.8	55.8	57.3	59.2
San Francisco	926.9	942.7	947.0	1.0	.9	.9	34.0	34.2	34.7
San Jose	781.0	796.2	798.8	.2	.2	.2	31.6	31.7	32.0
Santa Barbara-Santa Maria-Lompoc	145.9	147.5	148.4	1.2	1.3	1.3	6.0	6.4	6.5
Santa Rosa-Petaluma	124.3	128.7	129.3	.7	.7	.7	8.3	8.5	8.8
Stockton	141.9	142.3	144.5	.1	.1	.1	8.2	8.0	8.1
Vallejo-Fairfield-Napa	123.9	128.0	130.2	.3	.3	.3	8.9	9.5	9.9
Colorado	1,400.1	1,397.6	1,393.5	21.3	20.6	20.4	69.5	60.8	62.0
Boulder-Longmont	104.3	105.5	106.2	.3	.3	.3	3.5	3.2	3.2
Denver	797.7	791.6	793.6	14.1	13.7	13.5	38.2	35.6	35.8
Connecticut	1,644.6	1,666.1	1,674.3	1.6	1.7	1.7	77.4	77.5	81.2
Bridgeport-Milford	198.0	200.8	201.6	(¹)	(¹)	(¹)	8.7	9.3	9.6
Hartford	472.5	484.4	487.5	.2	.3	.3	19.8	20.4	21.3
New Haven-Meriden	249.8	255.4	256.7	.3	.3	.4	12.5	13.1	13.5
Stamford	125.9	128.1	129.1	.6	.5	.5	5.3	5.6	5.7
Waterbury	87.1	87.7	87.6	(¹)	(¹)	(¹)	4.3	4.4	4.5
Delaware	319.4	329.1	332.3	.1	.1	.1	19.9	21.1	21.4
Wilmington	273.1	280.3	282.3	.2	.1	.1	16.4	16.9	17.8
District of Columbia	651.6	667.5	669.5	.1	.1	.1	15.1	15.7	15.7
Washington MSA	2,070.0	2,125.4	2,140.0	1.2	1.2	1.2	131.0	132.8	136.8
Florida	4,835.3	5,095.7	5,094.5	8.6	8.7	8.8	337.6	346.0	349.2
Daytona Beach	112.1	118.3	117.4	(¹)	(¹)	(¹)	8.4	8.3	8.3
Fort Lauderdale-Hollywood-Pompano Beach	464.2	486.1	484.4	.4	.4	.4	35.1	34.8	35.2
Fort Myers-Cape Coral	108.5	117.2	116.8	(¹)	(¹)	(¹)	11.8	13.2	13.2
Jacksonville	393.1	411.5	413.5	.5	.4	.4	27.9	27.3	27.5
Melbourne-Titusville-Palm Bay	142.2	148.8	149.1	(¹)	(¹)	(¹)	8.7	8.1	8.4
Miami-Hialeah	825.1	837.4	835.9	.9	.9	.9	41.5	40.5	40.8
Orlando	475.2	498.0	499.6	(¹)	(¹)	(¹)	33.8	34.9	35.2
Pensacola	123.9	125.8	126.3	.3	.3	.3	9.1	9.1	9.1
Sarasota	103.7	109.6	109.5	(¹)	(¹)	(¹)	10.3	10.6	10.6
Tallahassee	108.9	112.2	112.7	(¹)	(¹)	(¹)	5.8	5.9	6.0
Tampa-St. Petersburg-Clearwater	797.4	819.3	819.6	.7	.7	.6	58.9	59.1	59.2
West Palm Beach-Boca Raton-Delray Beach	322.8	347.5	344.5	(¹)	(¹)	(¹)	27.1	28.3	28.5

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Alabama	367.3	371.8	373.8	72.7	72.4	72.6	332.2	334.4	336.9
Birmingham	54.5	56.2	56.5	27.6	27.9	28.0	97.7	99.8	100.4
Huntsville	30.7	31.5	31.7	2.9	2.9	3.0	23.1	23.7	23.9
Mobile	26.5	25.6	26.1	9.2	9.3	9.3	43.6	43.8	44.0
Montgomery	19.0	19.3	19.2	4.9	5.0	5.1	28.1	28.5	28.4
Tuscaloosa	9.5	9.9	10.0	1.9	1.9	1.9	12.0	12.4	12.3
Alaska	13.6	13.0	14.1	17.8	16.9	17.5	41.3	39.4	41.1
Arizona	186.2	188.3	188.7	71.2	74.4	73.4	338.3	346.8	346.5
Phoenix	134.7	137.5	138.2	48.3	50.5	50.4	229.8	234.0	234.0
Tucson	31.1	30.7	30.3	9.5	9.6	9.6	55.1	57.2	57.1
Arkansas	217.4	225.4	225.5	50.2	51.2	51.2	189.4	193.3	194.7
Fayetteville-Springdale	11.5	12.3	12.3	4.3	5.0	5.1	10.8	11.5	11.6
Fort Smith	26.1	27.2	27.3	3.8	4.1	4.1	15.8	15.7	15.8
Little Rock-North Little Rock	32.0	33.0	33.3	16.4	17.0	17.0	55.4	56.0	56.3
Pine Bluff	6.1	6.5	6.4	2.5	2.3	2.4	7.0	6.9	6.9
California	2,091.7	2,129.4	2,135.2	579.9	577.2	580.4	2,721.4	2,841.9	2,858.7
Anaheim-Santa Ana	247.6	253.7	254.0	34.5	34.3	34.4	266.0	276.7	277.9
Bakersfield	10.9	11.1	11.1	8.0	7.9	7.9	37.4	38.5	38.5
Fresno	20.5	22.9	23.0	10.7	11.2	11.4	52.1	52.9	53.3
Los Angeles-Long Beach	903.8	911.9	910.7	204.8	208.4	208.8	906.1	925.3	928.1
Modesto	21.8	22.9	23.6	4.3	4.4	4.3	26.2	28.1	28.1
Oakland	103.0	104.3	103.9	56.1	55.7	56.3	198.5	201.7	202.0
Oxnard-Ventura	28.8	30.5	30.4	10.9	9.8	10.0	50.3	51.9	52.4
Riverside-San Bernardino	80.4	84.9	84.9	30.9	31.7	31.8	149.2	159.6	160.4
Sacramento	40.7	42.2	42.7	24.4	25.6	25.7	131.1	138.1	138.9
San Diego	122.1	123.0	123.1	33.4	34.2	34.3	202.9	216.3	218.3
San Francisco	79.1	79.5	79.9	76.9	75.9	76.1	207.8	210.6	211.5
San Jose	257.8	262.5	263.0	21.2	21.5	21.7	148.8	152.9	153.0
Santa Barbara-Santa Maria-Lompoc	22.6	22.3	22.5	5.1	5.0	5.0	34.6	35.3	35.7
Santa Rosa-Petaluma	18.2	18.7	18.8	6.3	6.2	6.2	31.7	33.8	34.0
Stockton	22.2	22.3	23.3	8.5	8.4	8.4	32.9	32.9	33.5
Vallejo-Fairfield-Napa	11.4	11.4	12.1	4.6	4.4	4.4	29.3	31.0	31.4
Colorado	183.2	184.3	185.2	83.2	82.8	82.8	348.6	349.7	349.5
Boulder-Longmont	27.9	28.3	28.2	2.3	2.3	2.3	22.6	22.6	22.8
Denver	94.8	94.9	95.3	59.8	60.1	60.1	200.5	198.5	198.8
Connecticut	386.9	379.8	377.4	71.8	73.3	73.7	367.1	377.2	381.3
Bridgeport-Milford	58.7	57.5	57.2	8.6	9.3	9.5	45.0	46.3	46.7
Hartford	91.2	93.1	92.8	17.9	18.1	18.3	100.1	102.3	103.1
New Haven-Meriden	46.6	46.6	46.0	18.1	18.5	18.5	57.0	58.3	59.0
Stamford	23.9	23.8	23.9	5.1	5.4	5.4	30.4	30.8	31.1
Waterbury	25.2	23.6	23.5	3.2	3.3	3.2	17.0	17.4	17.3
Delaware	69.3	68.4	68.4	13.5	14.1	14.1	70.3	71.6	72.7
Wilmington	59.4	57.8	57.6	14.4	15.2	15.0	57.6	59.0	59.9
District of Columbia	15.9	16.5	16.3	24.6	24.7	24.9	63.1	63.7	64.5
Washington MSA	85.4	87.5	87.1	100.2	102.8	104.0	410.6	423.5	426.2
Florida	528.5	541.5	541.3	254.9	261.9	262.1	1,308.8	1,390.9	1,389.1
Daytona Beach	11.7	11.9	11.9	3.4	3.6	3.6	32.9	35.7	35.2
Fort Lauderdale-Hollywood-Pompano Beach	45.0	46.5	46.6	22.7	23.3	23.5	138.9	146.2	145.1
Fort Myers-Cape Coral	5.3	5.6	5.6	4.8	5.1	5.0	32.0	35.1	34.8
Jacksonville	38.1	39.5	39.5	27.7	28.1	28.3	104.9	110.0	111.0
Melbourne-Titusville-Palm Bay	27.7	29.6	29.6	5.9	6.0	6.0	32.7	35.2	35.2
Miami-Hialeah	95.4	97.1	96.3	68.6	67.9	67.8	220.3	222.8	222.7
Orlando	54.4	54.8	55.2	24.3	26.1	26.2	124.0	130.6	131.0
Pensacola	11.5	11.3	11.4	6.1	5.9	5.9	32.3	33.3	33.6
Sarasota	8.7	9.2	9.3	3.5	3.6	3.6	30.5	32.9	32.4
Tallahassee	4.6	4.7	4.7	3.2	3.2	3.2	22.7	23.2	23.3
Tampa-St. Petersburg-Clearwater	91.8	93.8	94.5	38.2	39.0	39.1	221.7	229.8	229.4
West Palm Beach-Boca Raton-Delray Beach	35.2	35.9	35.7	12.1	12.3	12.2	86.0	95.4	94.0

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		
	May 1987	Apr. 1988	May 1988 ^a	May 1987	Apr. 1988	May 1988 ^a	May 1987	Apr. 1988	May 1988 ^a
Alabama	70.6	70.0	70.3	274.1	282.0	282.1	302.4	304.4	305.0
Birmingham	29.0	29.2	29.2	92.9	95.5	95.7	61.0	62.1	61.6
Huntsville	3.6	3.7	3.7	27.4	29.1	29.6	29.2	29.7	29.8
Mobile	8.1	7.9	7.9	36.4	37.2	37.2	28.0	28.8	28.9
Montgomery	7.5	7.6	7.6	26.0	26.2	26.2	31.6	32.0	31.6
Tuscaloosa	2.0	2.1	2.1	8.0	8.5	8.3	19.0	19.6	19.5
Alaska	11.3	10.6	10.7	42.4	39.9	40.9	67.2	67.3	66.3
Arizona	94.5	93.9	93.3	344.8	362.8	360.8	239.1	251.2	251.9
Phoenix	75.0	74.4	74.1	232.5	245.1	243.8	123.0	131.0	131.6
Tucson	12.7	12.5	12.4	64.4	68.0	67.0	51.2	53.3	53.5
Arkansas	37.9	37.7	37.8	155.1	160.7	160.3	148.4	151.7	151.6
Fayetteville-Springdale	1.5	1.5	1.5	7.1	7.4	7.5	10.2	10.6	10.1
Fort Smith	2.7	2.7	2.6	17.0	16.8	16.9	7.7	8.1	8.2
Little Rock-North Little Rock	15.6	16.1	16.1	52.5	54.2	54.5	46.2	46.4	46.5
Pine Bluff	1.5	1.5	1.5	6.2	6.3	6.3	7.2	7.8	7.7
California	801.7	815.5	816.8	2,895.0	2,996.2	3,003.2	1,916.2	1,977.4	1,990.9
Anaheim-Santa Ana	91.4	90.3	90.3	262.5	268.2	269.6	117.7	119.7	120.0
Bakersfield	6.3	6.2	6.2	32.5	33.3	33.4	40.7	41.5	41.4
Fresno	13.7	12.7	12.5	47.0	48.2	48.4	45.2	47.7	47.3
Los Angeles-Long Beach	284.7	290.7	291.7	1,041.6	1,073.9	1,073.0	505.7	514.4	516.8
Modesto	4.4	4.6	4.6	21.0	22.0	22.1	17.6	18.6	18.5
Oakland	54.3	56.1	56.1	186.5	192.7	192.1	161.1	164.3	164.9
Oxnard-Ventura	10.5	10.8	11.0	47.2	50.8	51.0	40.7	41.3	41.4
Riverside-San Bernardino	26.4	27.1	27.3	142.4	150.2	149.3	120.5	126.8	127.8
Sacramento	33.5	33.9	34.0	116.0	124.7	125.1	167.2	171.2	172.2
San Diego	60.5	62.2	62.5	226.4	237.7	238.6	158.6	163.7	164.6
San Francisco	112.9	113.0	113.4	279.7	290.8	292.3	135.5	137.8	138.2
San Jose	34.7	34.6	34.5	198.3	204.2	205.1	88.4	88.6	89.3
Santa Barbara-Santa Maria-Lompoc	8.8	8.7	8.7	39.8	40.5	40.5	27.8	28.0	28.2
Santa Rosa-Petaluma	8.3	8.4	8.5	28.0	29.2	29.0	22.8	23.2	23.3
Stockton	8.8	8.5	8.5	30.1	30.3	30.4	31.1	31.8	32.2
Vallejo-Fairfield-Napa	4.5	4.4	4.4	27.6	29.5	30.0	37.3	37.5	37.7
Colorado	98.8	97.2	96.6	329.0	332.3	327.1	266.5	269.9	269.9
Boulder-Longmont	4.1	4.0	4.1	21.2	21.8	21.8	22.4	23.0	23.5
Denver	67.0	66.1	66.2	197.4	195.6	197.0	125.9	127.1	126.9
Connecticut	148.8	151.7	151.9	387.0	396.2	399.7	204.0	208.7	207.4
Bridgeport-Milford	11.4	12.3	12.3	46.0	45.5	45.8	19.6	20.6	20.5
Hartford	76.3	78.5	79.7	106.4	109.9	110.4	60.6	61.8	61.6
New Haven-Meriden	15.1	15.5	15.6	68.3	70.6	71.2	31.9	32.5	32.5
Stamford	12.9	13.3	13.4	36.8	38.0	38.4	10.9	10.7	10.7
Waterbury	4.4	4.4	4.4	20.4	21.5	21.7	12.6	13.1	13.0
Delaware	26.4	27.7	28.1	73.1	78.4	79.6	46.8	47.7	47.9
Wilmington	23.5	24.6	25.0	64.4	68.6	69.2	37.2	38.1	37.9
District of Columbia	37.1	37.8	38.0	228.9	243.0	243.1	266.7	265.9	267.1
Washington MSA	123.5	128.3	128.8	858.9	690.4	693.0	559.3	559.0	562.9
Florida	358.6	370.1	368.9	1,300.0	1,398.2	1,393.5	738.3	778.4	781.6
Daytona Beach	6.5	6.6	6.6	31.0	32.5	32.1	18.2	19.7	19.7
Fort Lauderdale-Hollywood-Pompano Beach	39.6	41.3	41.4	124.2	132.6	130.8	58.3	61.0	61.4
Fort Myers-Cape Coral	7.9	8.4	8.4	29.3	33.3	33.0	15.3	16.4	16.5
Jacksonville	37.2	39.2	39.3	99.3	107.8	107.9	57.5	59.2	59.6
Melbourne-Titusville-Palm Bay	5.3	5.7	5.7	41.2	42.8	42.8	20.6	21.3	21.3
Miami-Hialeah	67.5	68.0	67.8	223.7	227.1	226.2	107.2	113.1	113.4
Orlando	32.8	35.1	35.4	151.5	159.3	159.4	54.3	57.1	57.1
Pensacola	5.7	5.7	5.7	30.6	31.3	31.3	28.3	28.9	29.0
Sarasota	8.4	8.7	8.7	30.1	32.0	32.3	12.2	12.6	12.6
Tallahassee	4.9	4.9	4.9	21.9	22.6	22.6	45.6	47.4	47.7
Tampa-St. Petersburg-Clearwater	85.5	66.6	66.4	219.6	225.4	225.4	101.0	104.9	105.0
West Palm Beach-Boca Raton-DeRay Beach	28.6	29.5	29.4	94.3	104.4	102.7	39.4	41.7	41.9

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	Total			Mining			Construction		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Georgia	2,764.5	2,787.9	2,792.9	8.3	8.4	8.4	150.1	149.3	149.0
Athens	62.7	63.2	63.3	.2	.2	.2	2.4	2.3	2.3
Atlanta	1,367.0	1,381.9	1,384.9	1.4	1.4	1.4	71.8	70.9	70.5
Augusta	156.6	157.7	158.1	.5	.5	.5	9.2	9.5	9.7
Columbus	92.3	92.5	92.7	.1	.1	.1	5.2	5.3	5.3
Macon-Warner Robins	117.7	118.9	118.9	.1	.1	.1	5.0	4.8	4.7
Savannah	102.8	101.8	101.6	(¹)	(¹)	(¹)	7.2	6.4	6.3
Hawaii	458.6	467.7	468.1	(¹)	(¹)	(¹)	21.2	20.3	20.5
Honolulu	366.1	372.8	373.3	(¹)	(¹)	(¹)	16.7	16.0	16.2
Idaho	332.9	337.8	342.9	2.5	3.0	3.0	13.4	12.2	13.4
Boise City	86.6	88.3	88.9	(²)	(²)	(²)	4.3	4.0	4.2
Illinois	4,895.1	4,980.1	5,005.8	24.4	23.7	24.3	188.0	196.8	208.4
Aurora-Elgin	133.8	138.9	139.9	(¹)	(¹)	(¹)	6.1	6.5	6.8
Bloomington-Normal	55.2	57.3	56.2	(¹)	(¹)	(¹)	1.7	1.6	1.7
Champaign-Urbana-Rantoul	86.7	86.5	86.7	(¹)	(¹)	(¹)	2.3	2.2	2.3
Chicago	3,009.8	3,064.8	3,085.8	2.5	2.5	2.5	117.5	121.6	126.9
Davenport-Rock Island-Moline	156.8	155.5	156.0	(¹)	(¹)	(¹)	4.8	4.4	4.6
Decatur	49.9	49.9	48.5	(¹)	(¹)	(¹)	1.9	1.8	1.8
Joliet	96.3	97.0	97.3	(¹)	(¹)	(¹)	5.2	5.1	5.2
Lake County	184.5	191.8	194.6	(¹)	(¹)	(¹)	8.4	8.8	9.5
Peoria	132.5	135.4	135.8	(¹)	(¹)	(¹)	5.1	5.2	5.4
Rockford	123.2	126.3	126.6	(¹)	(¹)	(¹)	4.5	4.1	4.4
Springfield	97.2	98.1	98.1	(¹)	(¹)	(¹)	2.8	3.0	3.2
Indiana	2,315.3	2,377.9	2,403.1	8.7	8.1	8.4	100.2	104.3	111.8
Anderson	48.4	48.6	48.6	(²)	(²)	(²)	1.3	1.3	1.4
Bloomington	50.4	53.6	53.1	(²)	(²)	(²)	2.2	2.2	2.4
Elkhart-Goshen	98.5	102.2	103.7	(²)	(²)	(²)	2.8	2.8	2.9
Evansville	125.6	127.8	128.5	2.2	2.1	2.1	7.5	7.0	7.3
Fort Wayne	185.8	193.0	195.5	(²)	(²)	(²)	9.2	10.2	10.8
Gary-Hammond	220.8	227.0	229.0	(²)	(²)	(²)	11.7	12.0	12.7
Indianapolis	602.4	621.6	630.3	.8	.8	.8	30.3	31.8	33.1
Lafayette	61.5	65.8	63.4	(²)	(²)	(²)	2.4	2.9	3.1
Muncie	51.5	52.4	53.0	(²)	(²)	(²)	1.9	2.0	2.1
South Bend-Mishawaka	111.7	114.3	115.4	(²)	(²)	(²)	4.9	5.4	5.7
Terre Haute	52.6	54.7	54.0	.3	.3	.3	1.9	2.2	2.3
Iowa	1,118.2	1,140.1	1,149.2	2.4	2.3	2.4	36.5	32.7	35.6
Cedar Rapids	86.2	90.3	90.4	.2	.1	.1	3.3	3.1	2.8
Des Moines	205.6	214.3	216.2	(¹)	(¹)	(¹)	7.4	7.5	7.8
Dubuque	41.9	43.8	44.3	(¹)	(¹)	(¹)	1.3	1.3	1.4
Sioux City	49.5	52.8	52.9	(¹)	(¹)	(¹)	1.9	1.7	1.7
Waterloo-Cedar Falls	61.4	63.3	63.8	(¹)	(¹)	(¹)	1.7	1.8	2.1
Kansas	1,002.9	1,017.8	1,023.7	11.3	11.7	11.7	44.6	40.9	42.7
Topeka	86.2	89.0	89.3	(¹)	(¹)	(¹)	3.5	3.3	3.5
Wichita	226.6	230.5	230.6	2.3	2.4	2.3	9.7	9.4	9.4
Kentucky	1,312.3	1,349.0	1,357.2	38.7	36.6	36.7	58.6	62.0	64.5
Lexington-Fayette	174.8	179.8	180.2	.7	.5	.6	10.5	9.4	9.6
Louisville	433.9	449.9	456.2	.5	.4	.4	21.3	23.9	24.7
Owensboro	33.1	33.4	34.4	.9	.7	.8	1.9	2.2	2.3
Louisiana	1,487.0	1,496.3	1,498.4	53.7	54.8	54.7	82.5	82.1	82.4
Alexandria	45.4	45.5	45.5	.2	.2	.2	2.4	2.3	2.4
Baton Rouge	213.2	213.8	213.3	.9	.8	.8	20.7	20.8	20.2
Houma-Thibodaux	52.4	52.9	53.5	5.8	6.0	6.2	1.5	1.6	1.6
Lafayette	80.6	82.4	82.6	10.1	10.4	10.3	3.0	3.0	3.0
Monroe	55.4	53.5	53.6	.3	.3	.3	3.0	2.6	2.7
New Orleans	508.7	512.7	512.7	14.4	15.0	15.0	21.9	22.4	22.2
Shreveport	133.6	132.2	133.7	3.3	2.8	3.0	6.8	7.2	7.6
Maine	497.6	513.1	520.6	.1	.1	.1	32.0	31.4	34.6
Lewiston-Auburn	39.5	40.1	40.6	(¹)	(¹)	(¹)	2.2	2.2	2.4
Portland	120.9	125.5	126.0	(¹)	(¹)	(¹)	9.0	9.1	9.4

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Georgia	570.7	569.6	569.7	174.1	176.1	176.4	691.5	690.5	693.4
Athens	15.1	15.0	15.2	1.7	1.8	1.8	12.8	13.0	13.0
Atlanta	189.9	188.3	187.9	114.4	118.2	118.8	377.5	376.4	377.5
Augusta	35.4	36.5	36.6	5.2	5.2	5.1	34.3	33.4	33.4
Columbus	20.1	20.1	20.2	3.7	3.5	3.5	20.4	19.9	20.0
Macon-Warner Robins	18.4	18.2	18.1	4.9	4.9	4.9	26.6	26.9	27.0
Savannah	17.1	16.8	16.6	9.4	9.3	8.7	25.1	24.8	24.9
Hawaii	21.8	22.0	21.8	36.7	36.8	36.7	122.8	124.5	124.9
Honolulu	16.2	16.4	16.3	30.0	30.3	30.3	96.0	97.7	98.0
Idaho	52.9	54.7	56.2	17.8	17.9	18.1	85.0	83.8	85.0
Boise City	10.6	12.1	12.2	5.2	5.1	5.2	22.6	22.7	22.9
Illinois	928.8	944.4	943.9	294.5	299.8	300.0	1,219.7	1,241.6	1,253.9
Aurora-Elgin	35.9	37.3	37.1	2.9	3.0	3.0	37.9	38.5	39.1
Bloomington-Normal	5.0	5.6	5.6	2.6	2.6	2.6	12.7	12.8	12.8
Champaign-Urbana-Rantoul	8.2	8.0	8.1	2.4	2.3	2.3	19.1	19.1	19.1
Chicago	549.1	550.7	551.2	192.2	192.6	193.9	754.2	773.4	779.7
Davenport-Rock Island-Moline	34.1	33.0	33.0	8.3	8.2	8.3	42.3	42.4	42.5
Decatur	13.3	13.1	11.5	4.9	4.8	4.8	11.1	11.4	11.4
Joliet	19.1	19.8	19.9	8.4	8.2	8.2	22.7	22.8	22.8
Lake County	41.4	44.0	44.2	6.8	7.1	7.2	49.5	51.5	52.3
Peoria	30.8	33.7	33.8	6.7	6.6	6.6	33.0	32.8	32.8
Rockford	41.1	43.8	43.8	4.3	4.3	4.3	28.9	29.1	29.1
Springfield	4.0	3.9	3.8	4.7	4.9	4.9	22.0	22.0	22.0
Indiana	615.4	628.9	631.4	119.4	126.9	129.1	549.4	561.0	569.5
Anderson	17.2	16.8	16.7	1.5	1.5	1.6	11.2	11.4	11.5
Bloomington	8.6	9.2	9.2	1.7	1.8	1.8	11.4	11.9	12.0
Elkhart-Goshen	53.4	55.8	56.6	2.8	2.8	2.8	18.2	18.6	18.9
Evansville	30.6	30.5	30.5	6.6	6.7	6.7	32.9	33.9	34.3
Fort Wayne	50.7	51.5	51.7	12.0	12.3	12.5	45.9	48.3	49.1
Gary-Hammond	54.8	57.0	56.5	15.0	14.9	15.0	52.3	53.6	54.4
Indianapolis	107.1	106.2	106.1	36.7	38.2	38.6	154.9	161.8	164.2
Lafayette	11.9	12.2	12.2	2.0	2.0	2.0	13.0	13.0	13.0
Muncie	10.8	10.7	10.7	2.3	2.5	2.5	12.7	12.9	13.1
South Bend-Mishawaka	24.0	23.8	23.7	5.0	5.1	5.1	29.2	30.0	30.5
Terre Haute	10.3	9.9	10.0	2.6	2.8	2.8	14.4	15.0	15.1
Iowa	213.3	223.3	223.9	52.9	53.9	54.3	283.0	288.0	290.8
Cedar Rapids	22.0	23.7	23.6	5.5	6.4	6.5	20.8	21.8	21.9
Des Moines	23.5	25.9	26.1	12.0	12.5	12.7	53.2	56.0	56.3
Dubuque	12.3	13.0	13.1	1.7	1.7	1.8	9.4	9.6	9.8
Sioux City	8.6	10.7	10.6	3.2	3.2	3.2	13.1	13.7	13.9
Waterloo-Cedar Falls	13.5	14.7	14.9	1.7	1.7	1.7	14.7	14.9	15.3
Kansas	174.9	179.8	179.5	61.5	61.0	61.3	250.1	255.0	257.1
Topeka	9.0	9.1	9.2	6.8	6.5	6.5	19.4	20.6	20.7
Wichita	59.3	59.8	59.5	10.7	10.7	10.7	52.8	53.4	53.7
Kentucky	258.6	267.6	270.2	67.6	67.8	68.1	310.7	325.3	327.9
Lexington-Fayette	27.8	29.9	30.1	7.6	7.8	7.8	41.3	43.8	43.6
Louisville	85.6	86.9	87.8	27.3	29.3	29.7	107.0	111.9	114.0
Owensboro	5.8	5.6	5.9	2.1	2.1	2.1	8.3	8.5	8.5
Louisiana	163.1	168.0	168.2	103.4	103.8	103.9	361.4	361.1	362.7
Alexandria	3.4	3.4	3.4	2.2	2.2	2.2	10.8	10.9	11.0
Baton Rouge	18.3	18.6	18.6	10.2	10.4	10.4	50.6	50.9	51.3
Houma-Thibodaux	4.2	4.3	4.2	5.5	5.9	6.1	13.5	13.5	13.7
Lafayette	5.9	6.0	5.9	5.7	5.5	5.6	22.0	22.5	22.6
Monroe	7.2	7.2	7.2	2.9	2.6	2.6	14.4	14.2	13.9
New Orleans	41.5	43.6	43.8	42.7	43.6	43.6	133.9	133.6	133.9
Shreveport	17.8	17.2	17.2	8.4	8.0	8.0	32.5	32.3	32.3
Maine	102.1	104.7	105.8	20.5	20.7	20.9	122.4	127.8	130.9
Lewiston-Auburn	10.2	10.5	10.6	1.4	1.4	1.4	9.6	9.6	9.8
Portland	15.4	16.6	16.5	5.9	5.9	6.0	35.4	35.4	35.9

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	Finance, insurance, and real estate			Services			Government		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Georgia	154.8	156.0	156.2	534.8	549.4	550.0	480.2	488.7	489.8
Athens	1.9	2.0	2.0	9.5	9.7	9.7	19.1	19.3	19.3
Atlanta	97.9	98.8	99.2	318.5	326.1	327.4	195.6	201.6	202.3
Augusta	8.2	6.1	6.1	32.2	32.8	32.8	33.7	33.8	33.9
Columbus	6.2	6.2	6.1	15.8	16.7	16.8	20.8	20.7	20.7
Macon-Warner Robins	7.3	7.8	7.7	21.9	22.9	22.7	33.5	33.4	33.6
Savannah	4.4	4.3	4.4	24.0	23.9	24.2	15.7	16.3	16.4
Hawaii	33.8	34.5	34.4	124.9	129.6	129.5	97.4	100.0	100.3
Honolulu	28.3	28.9	28.8	96.7	99.3	99.4	82.2	84.2	84.3
Idaho	19.3	18.9	19.0	87.1	70.8	70.3	74.9	76.5	77.9
Boise City	7.6	7.4	7.5	19.1	19.3	19.2	17.2	17.7	17.7
Illinois	357.1	363.4	363.6	1,153.7	1,176.1	1,182.7	728.9	734.3	729.0
Aurora-Elgin	6.4	6.6	6.6	29.6	31.3	31.8	14.9	15.6	15.6
Bloomington-Normal	9.3	9.8	9.6	11.7	11.8	11.8	12.2	13.3	12.1
Champaign-Urbana-Rantoul	3.4	3.4	3.3	16.0	16.3	16.2	35.3	35.2	35.4
Chicago	255.5	261.5	262.1	777.1	798.1	804.8	361.7	364.4	364.7
Davenport-Rock Island-Moline	8.0	8.2	8.2	31.6	31.7	31.7	27.7	27.6	27.7
Decatur	2.7	2.7	2.7	10.5	10.6	10.6	5.5	5.5	5.7
Joliet	3.8	3.8	3.8	20.2	20.0	20.1	16.6	17.0	17.0
Lake County	6.8	6.9	6.8	41.8	42.7	43.7	29.2	30.2	30.3
Peoria	7.0	7.0	7.0	33.4	33.8	33.9	16.5	16.3	16.3
Rockford	5.2	5.3	5.2	26.8	27.1	27.0	12.4	12.6	12.8
Springfield	8.0	7.9	7.9	23.7	23.8	23.7	31.9	32.5	32.5
Indiana	115.5	118.4	119.4	454.3	471.6	476.5	352.4	358.7	357.0
Anderson	1.6	1.6	1.6	9.6	10.0	9.8	6.0	5.9	6.0
Bloomington	1.7	1.8	1.9	8.0	8.4	8.4	16.8	18.2	17.4
Elkhart-Goshen	2.5	2.6	2.7	13.0	13.8	13.9	5.8	5.9	6.0
Evansville	5.1	5.3	5.4	28.6	30.1	30.2	12.0	12.3	12.2
Fort Wayne	12.1	12.1	12.1	37.8	40.4	41.0	18.1	18.3	18.2
Gary-Hammond	8.2	8.4	8.5	47.9	49.4	49.8	30.8	31.8	32.1
Indianapolis	45.4	47.7	48.3	136.4	143.0	146.6	90.8	92.2	92.7
Lafayette	3.0	3.1	3.2	11.3	11.5	11.5	17.8	21.2	18.4
Muncie	1.6	1.7	1.7	10.4	10.8	11.0	11.6	11.9	11.9
South Bend-Mishawaka	6.3	6.4	6.4	30.8	32.0	32.3	11.5	11.7	11.7
Terre Haute	2.0	2.1	2.1	11.1	11.3	11.3	10.0	11.2	10.2
Iowa	64.3	65.8	66.1	249.7	253.8	255.0	216.1	220.3	221.1
Cedar Rapids	4.8	4.9	4.9	18.9	19.8	19.8	10.7	10.5	10.8
Des Moines	26.4	28.6	28.9	52.6	53.7	54.5	30.3	29.9	29.7
Dubuque	1.4	1.5	1.5	12.2	12.9	12.8	3.5	3.7	3.8
Sioux City	2.6	2.6	2.6	13.8	14.4	14.5	6.3	6.5	6.4
Waterloo-Cedar Falls	3.0	2.8	2.8	14.2	14.5	14.3	12.5	12.8	12.6
Kansas	56.6	57.0	57.4	201.3	207.5	208.6	202.6	204.9	205.4
Topeka	6.2	6.6	6.6	20.4	21.1	21.1	20.8	21.7	21.6
Wichita	11.4	11.2	11.4	52.9	55.9	55.6	27.5	27.7	28.0
Kentucky	60.7	61.7	61.8	275.5	283.6	284.8	241.9	244.4	243.2
Lexington-Fayette	9.0	9.1	9.2	41.6	42.4	42.3	36.3	36.9	37.0
Louisville	28.6	29.5	29.5	103.4	105.6	108.1	60.2	62.4	62.0
Owensboro	1.5	1.4	1.5	7.5	7.8	8.0	5.1	5.1	5.3
Louisiana	85.3	84.9	84.7	320.4	327.8	328.6	317.2	313.8	313.2
Alexandria	2.6	2.6	2.6	11.1	11.3	11.2	12.7	12.6	12.5
Baton Rouge	13.7	13.3	13.5	42.8	44.0	43.9	56.0	55.0	54.6
Houma-Thibodaux	2.4	2.2	2.2	8.5	8.8	8.9	11.0	10.6	10.6
Lafayette	3.8	3.7	3.7	17.6	18.4	18.5	12.5	12.9	13.0
Monroe	4.6	4.5	4.5	11.8	11.5	11.6	11.2	10.8	10.8
New Orleans	34.1	34.0	33.9	133.7	136.0	135.9	86.5	84.5	84.4
Shreveport	7.4	7.2	7.2	32.0	32.2	33.3	25.4	25.3	25.1
Maine	24.8	25.2	25.3	106.6	110.4	112.3	89.1	92.8	90.7
Lewiston-Auburn	2.2	2.3	2.3	10.0	10.1	10.2	3.9	4.0	3.9
Portland	12.1	12.6	12.8	28.2	30.1	30.3	14.9	15.8	15.1

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		
	May 1987	Apr. 1988	May 1988 ^a	May 1987	Apr. 1988	May 1988 ^a	May 1987	Apr. 1988	May 1988 ^a
Maryland	2,025.5	2,028.8	2,038.4	1.9	1.8	1.8	151.0	149.1	151.6
Baltimore MSA	1,088.5	1,087.2	1,092.4	.3	.3	.3	72.8	72.9	73.9
Baltimore City	455.9	458.1	459.2	(^b)	(^b)	(^b)	19.0	19.2	19.3
Suburban Maryland-D.C.	713.5	720.1	723.3	.6	.6	.6	63.5	61.7	63.2
Massachusetts	3,056.1	3,099.7	3,124.4	1.8	1.9	1.9	136.2	143.6	151.2
Boston	1,718.6	1,741.8	1,752.0	.8	1.0	1.0	68.5	71.3	74.1
Brockton	71.9	73.6	74.0	(^b)	(^b)	(^b)	3.7	4.1	4.3
Fall River	55.5	55.6	55.9	(^b)	(^b)	(^b)	2.5	2.5	2.7
Fitchburg-Leominster	40.3	40.4	40.8	(^b)	(^b)	(^b)	2.5	2.6	2.8
Lawrence-Haverhill	162.5	164.9	166.0	(^b)	(^b)	(^b)	8.3	8.0	8.4
Lowell	105.8	107.3	107.9	.2	.1	.1	5.6	5.8	6.2
New Bedford	66.7	68.2	68.7	(^b)	(^b)	(^b)	3.2	3.4	3.5
Springfield	237.4	242.6	244.2	.1	.1	.1	9.9	9.7	10.4
Worcester	198.5	205.9	206.6	.1	.2	.2	9.6	9.9	10.5
Michigan	3,726.7	3,734.5	3,770.8	10.0	10.0	10.1	121.6	121.2	130.1
Ann Arbor	161.1	171.8	170.9	(^b)	(^b)	(^b)	5.4	5.7	6.5
Battle Creek	57.1	57.1	57.9	(^b)	(^b)	(^b)	1.7	1.9	2.1
Benton Harbor	63.7	64.3	64.8	(^b)	(^b)	(^b)	1.5	1.3	1.4
Detroit	1,871.0	1,855.3	1,875.5	.8	.8	.9	59.4	58.0	61.3
Flint	172.7	166.2	168.4	(^b)	(^b)	(^b)	4.6	4.0	4.5
Grand Rapids	312.7	318.6	322.7	(^b)	(^b)	(^b)	14.8	14.0	14.6
Kalamazoo	102.1	106.1	105.0	(^b)	(^b)	(^b)	3.2	3.0	3.1
Lansing-East Lansing	204.3	207.0	208.3	(^b)	(^b)	(^b)	5.0	4.7	5.3
Muskegon	56.2	56.1	57.0	(^b)	(^b)	(^b)	2.0	1.9	2.1
Saginaw-Bay City-Midland	151.6	154.3	156.1	(^b)	(^b)	(^b)	5.8	5.9	6.7
Minnesota	1,967.5	1,993.1	2,025.5	6.0	6.7	7.2	84.7	71.9	80.8
Duluth	89.0	88.1	89.9	3.5	4.5	4.6	4.4	2.5	3.0
Minneapolis-St. Paul	1,280.9	1,306.6	1,320.8	(^b)	(^b)	(^b)	55.8	49.6	54.2
Rochester	56.7	57.4	58.1	(^b)	(^b)	(^b)	1.8	1.7	2.0
St. Cloud	69.6	71.8	73.4	(^b)	(^b)	(^b)	3.9	3.6	4.0
Mississippi	865.5	885.7	888.0	6.0	6.3	6.4	34.3	33.3	34.0
Jackson	176.0	180.9	181.9	.9	1.1	1.2	8.5	8.3	8.5
Missouri	2,198.4	2,217.4	2,229.9	5.7	5.5	5.6	99.5	97.9	101.1
Kansas City	734.1	738.7	739.2	.5	.5	.5	37.2	36.0	36.3
St. Louis	1,124.8	1,135.0	1,142.2	3.5	3.5	3.5	56.6	55.0	57.5
Springfield	107.3	112.5	113.2	.1	.1	.1	4.9	5.4	5.6
Montana	277.5	272.3	275.2	5.7	5.9	5.9	9.1	8.2	9.1
Nebraska	662.5	668.5	672.9	1.7	1.7	1.7	24.3	23.2	24.4
Lincoln	111.1	112.1	113.0	(^b)	(^b)	(^b)	4.1	4.1	4.4
Omaha	300.9	303.8	305.9	.2	.2	.2	12.2	11.6	12.2
Nevada	498.9	520.2	526.6	7.6	9.7	10.1	29.7	31.5	32.8
Las Vegas	283.7	297.0	300.0	.3	.3	.3	18.6	19.4	20.0
Reno	131.3	136.3	137.8	.8	1.0	1.0	6.8	7.5	7.8
New Hampshire	509.9	524.4	530.4	.6	.7	.7	37.0	37.6	39.2
Nashua	92.4	95.9	96.1	.1	.1	.1	5.0	5.5	5.7
Portsmouth-Dover-Rochester,NH-ME	109.6	112.2	114.8	.1	.1	.1	6.0	6.1	6.3
New Jersey	3,584.5	3,648.4	3,672.3	2.3	2.5	2.5	166.3	177.4	182.7
Atlantic City	163.2	159.6	166.1	(^b)	(^b)	(^b)	10.2	10.5	10.9
Bergen-Passaic	666.2	683.0	684.3	.1	.1	.1	31.0	32.1	32.8
Camden	421.5	435.9	437.8	.1	.1	.1	24.0	26.9	27.6
Jersey City	240.1	243.9	245.3	(^b)	(^b)	(^b)	6.8	7.6	7.7
Middlesex-Somerset-Hunterdon	513.6	530.5	532.1	.6	.6	.7	23.0	23.9	24.6
Monmouth-Ocean	323.3	328.6	334.6	(^b)	(^b)	(^b)	21.2	23.9	24.7
Newark	954.8	969.2	973.0	.7	.7	.7	37.8	41.2	42.5
Trenton	193.8	199.1	200.0	(^b)	(^b)	(^b)	5.1	5.3	5.4

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Maryland	206.9	205.4	204.5	93.4	91.6	91.9	515.5	517.2	522.5
Baltimore MSA	130.9	130.5	130.4	53.4	52.9	53.0	267.4	267.3	269.8
Baltimore City	44.6	44.3	44.3	27.8	27.6	27.7	97.6	98.5	98.9
Suburban Maryland-D.C.	34.7	35.7	35.6	26.5	26.6	26.6	189.5	193.0	193.5
Massachusetts	599.5	584.1	583.6	129.8	129.7	130.8	719.0	721.2	730.7
Boston	282.2	274.8	275.3	75.7	75.5	76.1	384.5	383.8	386.5
Brockton	11.3	11.4	11.5	5.1	5.0	5.0	21.9	22.7	22.9
Fall River	16.9	15.9	15.6	1.9	1.9	1.9	13.9	15.1	15.2
Fitchburg-Leominster	11.9	11.6	11.5	1.6	1.7	1.6	10.0	10.1	10.3
Lawrence-Haverhill	51.0	50.2	50.0	6.9	6.6	6.7	36.0	37.1	37.9
Lowell	36.2	36.1	36.2	3.7	3.3	3.4	22.5	23.0	22.9
New Bedford	19.5	18.8	18.9	2.8	2.9	3.0	16.4	16.8	16.9
Springfield	50.6	51.5	51.5	9.6	9.9	9.9	56.0	57.0	57.4
Worcester	45.7	46.2	45.9	8.6	8.4	8.4	47.4	48.1	48.4
Michigan	972.0	931.5	935.8	151.8	151.6	152.7	850.8	863.9	877.1
Ann Arbor	39.5	38.7	39.0	4.0	4.5	4.4	28.2	30.0	30.2
Battle Creek	15.2	14.8	15.2	1.8	1.8	1.8	11.2	11.6	11.9
Benton Harbor	21.2	21.0	21.0	2.3	2.3	2.3	13.1	13.4	13.8
Detroit	475.7	445.3	445.6	84.5	86.6	87.6	437.2	444.1	449.9
Flint	57.9	48.7	49.0	4.7	4.5	4.5	44.5	46.0	46.7
Grand Rapids	95.3	96.9	97.8	11.2	11.3	11.3	80.1	81.8	83.4
Kalamazoo	29.7	30.0	30.2	3.2	3.3	3.4	22.9	23.4	23.7
Lansing-East Lansing	35.4	34.0	32.9	5.9	5.7	5.6	41.2	42.1	43.1
Muskegon	17.7	17.3	17.4	2.4	2.3	2.4	12.4	12.4	12.7
Saginaw-Bay City-Midland	43.5	42.1	42.8	7.0	6.9	7.0	35.8	36.4	36.5
Minnesota	369.6	381.0	383.6	100.5	101.1	102.0	489.4	493.2	501.8
Duluth	7.4	7.7	7.6	5.7	5.9	6.0	22.0	21.4	21.9
Minneapolis-St. Paul	251.2	258.9	259.9	69.3	71.2	71.2	312.9	319.3	322.2
Rochester	10.3	10.7	10.8	1.7	1.7	1.7	11.7	11.3	11.5
St. Cloud	11.7	12.2	12.4	3.4	3.5	3.5	21.1	21.8	22.3
Mississippi	226.9	233.5	233.4	41.9	42.6	43.0	185.7	188.6	190.3
Jackson	20.2	20.8	21.1	12.6	12.9	13.1	42.0	42.8	43.0
Missouri	416.5	420.7	419.1	143.4	143.3	144.5	539.8	543.3	551.5
Kansas City	110.1	111.3	109.0	56.6	55.7	56.0	190.9	190.0	192.4
St. Louis	215.6	219.0	219.4	72.9	74.2	74.9	276.3	275.4	277.7
Springfield	19.7	21.2	21.4	6.8	7.2	7.2	30.5	31.4	31.8
Montana	20.4	20.2	20.6	19.6	18.8	19.0	73.2	72.0	72.9
Nebraska	87.0	90.7	90.8	42.7	42.9	43.4	170.7	171.1	172.0
Lincoln	13.3	13.7	13.9	5.8	5.7	5.7	25.3	25.3	25.0
Omaha	33.6	34.7	35.1	22.8	22.9	23.0	77.0	76.8	77.6
Nevada	22.8	24.1	24.0	27.6	28.0	28.3	100.3	104.9	106.3
Las Vegas	8.6	8.8	8.8	15.6	15.9	16.1	58.8	62.5	63.4
Reno	8.3	8.2	8.2	9.0	9.2	9.2	29.2	30.2	30.4
New Hampshire	117.2	120.7	120.6	17.2	17.3	17.5	128.1	132.3	134.0
Nashua	36.1	37.3	37.1	2.1	2.1	2.1	21.0	21.5	21.6
Portsmouth-Dover-Rochester,NH-ME	20.6	20.9	20.8	2.9	3.0	3.1	28.7	29.2	30.6
New Jersey	677.6	666.4	668.3	237.4	243.4	243.8	855.6	865.0	873.3
Atlantic City	8.3	8.4	8.5	6.2	6.1	6.1	35.1	33.3	36.4
Bergen-Passaic	160.5	160.9	160.7	28.7	28.6	28.7	190.0	194.2	194.9
Camden	71.4	71.7	71.2	18.3	18.9	19.2	113.5	118.0	118.6
Jersey City	49.6	47.3	48.3	31.2	30.5	30.3	58.5	60.7	61.1
Middlesex-Somerset-Hunterdon	113.3	115.1	115.3	42.7	44.3	44.4	123.7	127.4	127.7
Monmouth-Ocean	30.7	29.9	30.2	16.1	16.6	16.6	87.9	87.6	89.7
Newark	182.6	178.5	178.2	81.2	80.7	80.8	195.7	197.4	198.4
Trenton	30.9	30.7	30.8	6.5	6.7	6.7	31.0	31.8	32.1

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Maryland	124.1	126.0	126.3	536.3	543.5	544.8	396.4	394.2	395.0
Baltimore MSA	74.7	74.1	74.3	282.7	286.1	287.4	206.2	203.1	203.3
Baltimore City	43.6	43.9	44.0	138.4	139.8	140.2	85.0	84.7	84.7
Suburban Maryland-D.C.	40.9	42.0	42.3	207.1	210.4	209.9	150.8	150.1	151.6
Massachusetts	215.7	225.7	227.8	852.6	883.5	888.7	401.5	410.0	409.7
Boston	149.0	154.7	155.4	555.7	571.6	573.0	202.2	209.1	210.6
Brockton	3.1	3.1	3.2	14.9	15.6	15.4	11.9	11.7	11.7
Fall River	3.0	3.1	3.2	10.3	10.6	10.7	7.0	6.5	6.6
Fitchburg-Leominster	1.8	1.8	1.9	7.8	8.2	8.4	4.7	4.4	4.3
Lawrence-Haverhill	6.3	6.5	6.5	33.0	34.7	35.1	21.0	21.8	21.4
Lowell	4.3	4.2	4.3	20.0	20.6	20.8	13.3	14.2	14.0
New Bedford	2.5	2.6	2.7	12.6	13.2	13.3	9.7	10.5	10.4
Springfield	15.9	16.6	16.8	57.0	59.4	59.8	38.3	38.4	38.3
Worcester	13.8	14.8	14.9	49.1	52.5	52.6	24.2	25.8	25.7
Michigan	179.3	183.5	185.4	820.3	833.1	839.6	620.8	639.7	639.9
Ann Arbor	4.6	4.8	4.6	32.3	34.5	34.7	46.8	53.6	51.2
Battle Creek	3.8	3.2	3.2	11.9	12.2	12.2	11.4	11.5	11.5
Benton Harbor	2.5	2.7	2.7	14.3	14.8	14.9	8.6	8.6	8.7
Detroit	105.7	107.1	108.0	465.0	465.7	471.5	242.5	247.8	250.8
Flint	5.8	5.8	5.9	30.4	31.1	31.4	24.7	26.0	26.4
Grand Rapids	13.7	13.9	14.0	65.6	69.0	69.3	31.6	31.5	32.1
Kalamazoo	4.6	5.0	5.0	23.1	23.3	23.5	15.4	18.0	16.1
Lansing-East Lansing	11.3	12.1	12.2	36.9	39.5	39.5	68.3	68.6	69.3
Muskegon	1.3	1.3	1.3	11.4	11.7	11.8	8.9	9.0	9.2
Saginaw-Bay City-Midland	6.0	6.2	6.2	32.6	34.3	34.4	21.0	22.4	22.4
Minnesota	119.4	122.5	123.5	473.1	488.3	495.0	324.9	328.3	331.7
Duluth	3.1	3.1	3.2	21.1	20.7	21.2	21.9	22.2	22.4
Minneapolis-St. Paul	92.8	95.8	96.4	321.3	329.2	333.0	176.9	182.0	183.2
Rochester	1.5	1.6	1.6	23.5	24.4	24.5	6.1	6.0	6.1
St. Cloud	2.3	2.4	2.4	14.5	14.6	14.9	12.8	13.6	14.0
Mississippi	38.5	39.0	39.1	138.8	142.6	142.7	193.3	199.7	199.0
Jackson	14.2	14.4	14.4	38.7	40.2	40.3	39.0	40.3	40.4
Missouri	135.1	135.5	135.9	506.6	514.7	516.3	351.8	356.5	355.9
Kansas City	58.2	58.2	58.3	168.9	172.6	173.3	111.7	114.4	113.4
St. Louis	74.3	73.6	73.8	283.1	291.4	292.1	142.5	142.9	143.3
Springfield	4.8	4.7	4.8	26.8	28.4	28.3	13.7	14.1	14.0
Montana	13.3	12.4	12.5	64.0	64.5	65.1	72.2	70.3	70.1
Nebraska	48.0	47.9	48.3	150.5	150.8	151.1	137.6	140.2	141.2
Lincoln	8.1	8.6	8.7	23.4	23.7	24.0	31.1	31.0	31.3
Omaha	29.0	28.6	28.7	80.8	83.0	82.6	45.3	46.0	46.5
Nevada	23.4	24.4	24.7	222.4	230.0	232.4	65.1	67.6	68.0
Las Vegas	14.1	15.1	15.2	135.2	140.4	141.6	32.5	34.6	34.8
Reno	7.0	6.9	6.9	53.6	56.2	57.0	16.6	17.1	17.3
New Hampshire	31.4	33.6	33.8	112.0	115.7	117.9	66.4	66.5	66.7
Nashua	3.8	4.1	4.1	17.6	18.0	18.2	6.7	7.3	7.2
Portsmouth-Dover-Rochester,NH-ME	6.4	6.6	6.8	20.1	20.7	21.5	24.8	25.6	25.6
New Jersey	224.7	233.3	234.4	874.7	901.4	908.7	545.9	559.0	558.6
Atlantic City	7.0	7.1	7.2	71.9	69.7	72.1	24.4	24.4	24.8
Bergen-Passaic	37.5	39.5	39.8	150.7	158.9	158.7	67.7	68.7	68.6
Camden	24.1	25.8	25.8	99.5	102.0	102.6	70.6	72.5	72.7
Jersey City	12.5	13.2	13.3	41.4	43.1	43.0	40.1	41.5	41.6
Middlesex-Somerset-Hunterdon	35.2	36.1	36.2	104.0	110.1	110.8	71.1	73.0	72.4
Monmouth-Ocean	17.8	18.2	18.3	86.3	90.5	93.3	61.1	61.7	61.6
Newark	76.2	78.9	79.2	245.4	254.5	256.6	135.2	137.3	136.6
Trenton	9.4	9.5	9.6	56.1	58.6	59.0	54.8	56.5	56.4

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
New Mexico	531.5	537.3	539.3	14.9	15.2	15.3	32.2	29.6	29.9
Albuquerque	231.3	235.5	236.7	.2	.2	.2	16.2	15.1	15.4
Las Cruces	41.1	41.4	41.4	.1	.1	.1	2.2	2.1	2.2
Santa Fe	53.5	54.6	55.3	.1	.1	.1	2.5	2.3	2.5
New York	8,050.2	8,162.7	8,223.6	6.2	6.0	6.2	330.2	331.5	345.8
Albany-Schenectady-Troy	403.7	411.5	414.6	.4	.3	.4	19.1	19.4	20.2
Binghamton	120.5	122.5	123.3	(¹)	(¹)	(¹)	5.1	4.8	5.1
Buffalo	435.4	440.8	447.7	.3	.4	.4	16.9	15.9	18.0
Elmira	38.2	40.4	40.8	(¹)	(¹)	(¹)	1.6	1.5	1.6
Nassau-Suffolk	1,132.5	1,149.1	1,157.8	.2	.2	.2	60.0	62.2	63.1
New York PMSA	4,103.2	4,149.9	4,161.3	1.3	1.2	1.2	151.9	157.1	159.9
New York City	3,582.7	3,619.6	3,627.4	.7	.7	.7	118.5	123.1	124.9
Niagara Falls	80.3	80.9	83.0	(¹)	(¹)	(¹)	3.1	3.1	3.4
Orange County	101.2	104.3	105.7	(¹)	(¹)	(¹)	5.4	6.1	6.4
Poughkeepsie	115.7	120.5	121.3	(²)	(²)	(²)	6.5	6.2	6.6
Rochester	461.6	470.3	474.3	.8	.6	.6	18.0	18.7	19.6
Rockland County	96.9	98.6	99.7	(²)	(²)	(²)	5.2	5.6	5.8
Syracuse	296.9	306.9	305.9	.2	.2	.2	14.6	16.1	17.3
Utica-Rome	121.1	123.6	125.0	.2	.2	.2	4.1	3.7	4.0
Westchester County	405.6	412.8	415.0	.3	.3	.3	26.7	26.6	27.3
North Carolina	2,856.4	2,934.7	2,941.5	4.9	4.9	4.9	162.0	166.9	168.7
Asheville	77.1	78.6	78.6	.1	.1	.1	4.2	4.4	4.4
Charlotte-Gastonia-Rock Hill	575.2	598.8	602.3	.4	.4	.4	33.6	37.3	38.2
Greensboro-Winston-Salem-High Point	465.6	470.7	471.7	.3	.3	.3	25.3	24.6	25.2
Raleigh-Durham	379.0	391.9	387.7	.4	.4	.4	21.7	22.2	22.3
North Dakota	255.1	252.9	257.5	4.0	4.1	4.3	11.6	8.2	10.2
Bismarck	36.8	36.8	37.2	.2	.2	.2	1.7	1.3	1.6
Fargo-Moorhead	71.9	73.1	74.2	(¹)	(¹)	(¹)	3.7	3.0	3.7
Grand Forks	30.6	30.2	30.9	(¹)	(¹)	(¹)	1.8	1.2	1.6
Ohio	4,591.6	4,653.9	4,705.8	20.7	19.8	19.9	175.4	179.1	191.3
Akron	265.9	270.1	273.7	.5	.5	.5	9.0	8.7	9.5
Cincinnati	679.6	693.2	699.3	.4	.6	.6	28.9	30.9	32.4
Cleveland	889.5	902.1	910.0	1.0	1.0	.9	28.3	27.6	29.5
Columbus	657.2	673.8	681.0	1.0	1.0	1.0	26.8	27.7	29.3
Dayton-Springfield	429.3	434.2	437.5	.4	.4	.4	16.1	16.8	17.9
Toledo	280.2	287.3	290.6	.2	.2	.3	10.4	11.3	12.1
Youngstown-Warren	189.6	192.5	196.0	.6	.6	.6	7.5	7.5	8.3
Oklahoma	1,109.9	1,095.6	1,100.6	45.0	44.0	43.2	34.2	31.6	32.3
Enid	21.9	21.7	21.9	1.0	1.0	1.0	.7	.6	.7
Lawton	34.4	33.8	34.0	.3	.2	.2	1.3	1.2	1.2
Oklahoma City	403.7	397.7	400.5	11.2	11.1	11.0	12.6	12.1	12.6
Tulsa	289.2	287.4	288.7	15.3	14.8	14.9	10.5	9.2	9.6
Oregon	1,094.1	1,121.8	1,131.5	1.4	1.3	1.3	34.5	36.0	37.4
Eugene-Springfield	105.4	107.3	108.7	.2	.1	.2	3.1	3.1	3.2
Portland	554.1	568.5	573.1	.5	.4	.4	18.7	19.5	19.9
Salem	94.0	95.8	96.9	.1	.1	.1	3.1	3.1	3.3
Pennsylvania	4,919.5	5,006.4	5,038.8	31.0	29.6	29.7	220.3	224.0	236.1
Allentown-Bethlehem	271.6	275.3	277.7	.6	.6	.6	12.8	13.9	14.4
Alltoona	50.8	51.4	52.0	(²)	(²)	(²)	2.7	2.5	2.6
Beaver County	51.4	51.2	51.5	(²)	(²)	(²)	4.0	4.0	4.1
Erie	110.4	111.5	112.5	.3	.2	.3	3.3	3.2	3.5
Harrisburg-Lebanon-Carlisle	293.8	299.4	301.5	.3	.3	.3	12.2	13.2	13.2
Johnstown	77.8	78.9	79.9	3.7	3.6	3.7	2.8	2.6	2.8
Lancaster	180.2	183.5	186.4	.4	.4	.4	10.4	11.1	11.5
Philadelphia PMSA	2,140.4	2,178.0	2,183.4	1.1	1.1	1.1	101.0	108.8	110.2
Philadelphia City	771.6	779.9	777.1	(²)	(²)	(²)	17.5	16.9	16.9
Pittsburgh	856.7	862.9	865.9	5.5	5.4	5.4	42.7	39.5	41.0

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1987	Apr. 1988	May 1988 ^a	May 1987	Apr. 1988	May 1988 ^a	May 1987	Apr. 1988	May 1988 ^a
New Mexico	37.9	39.7	39.7	28.7	28.8	28.9	127.6	128.9	130.6
Albuquerque	19.9	20.5	20.4	12.3	12.5	12.4	59.0	60.3	61.4
Las Cruces	3.9	3.8	3.9	1.5	1.3	1.3	8.0	8.7	8.7
Santa Fe	1.6	1.7	1.7	1.2	1.3	1.3	10.5	10.7	11.0
New York	1,214.2	1,217.8	1,219.0	404.6	404.0	407.5	1,694.5	1,686.9	1,708.6
Albany-Schenectady-Troy	49.6	48.2	48.0	16.5	16.5	16.6	84.6	87.3	88.6
Binghamton	37.6	38.3	38.2	4.4	4.6	4.6	26.2	26.7	27.1
Buffalo	76.8	77.2	77.3	21.6	21.3	21.7	108.9	110.0	111.9
Elmira	7.6	8.6	8.7	1.4	1.4	1.4	10.5	10.6	10.8
Nassau-Suffolk	176.6	175.3	174.2	48.4	49.3	49.7	304.3	304.2	308.7
New York PMSA	457.8	457.7	458.7	239.2	239.3	240.0	759.0	756.0	760.8
New York City	379.2	375.1	376.2	213.9	213.4	214.0	635.5	632.0	635.7
Niagara Falls	24.0	23.8	23.8	3.7	3.7	3.9	18.5	19.0	19.5
Orange County	14.9	15.0	15.1	5.9	6.0	6.0	26.8	27.9	28.4
Poughkeepsie	29.8	29.8	29.9	3.3	3.3	3.3	21.6	24.6	24.7
Rochester	130.7	132.9	133.0	14.4	14.6	14.6	99.5	100.7	101.8
Rockland County	14.6	14.4	14.3	4.0	4.1	4.1	22.8	23.5	23.9
Syracuse	52.9	52.1	52.0	18.0	18.0	18.1	70.0	72.5	73.2
Utica-Rome	23.7	24.3	24.3	4.3	4.5	4.6	26.6	26.8	27.4
Westchester County	62.2	66.3	66.3	20.7	21.2	21.2	96.4	96.2	96.8
North Carolina	851.8	860.7	858.7	140.2	145.9	146.9	638.1	657.5	664.1
Asheville	19.1	19.3	18.9	3.7	3.7	3.7	18.3	18.6	18.9
Charlotte-Gastonia-Rock Hill	152.6	155.0	155.3	48.1	49.3	49.8	136.9	143.9	144.9
Greensboro-Winston-Salem-High Point	152.9	151.6	150.9	27.0	28.0	27.9	103.3	105.3	105.5
Raleigh-Durham	58.0	58.0	57.4	17.0	16.7	16.7	80.7	82.9	83.3
North Dakota	15.5	15.8	18.0	16.3	16.4	16.6	68.3	67.9	69.0
Bismarck	2.0	2.0	2.0	2.6	2.7	2.7	9.9	9.7	9.8
Fargo-Moorhead	4.9	4.9	4.9	4.4	4.7	4.8	21.1	21.4	21.7
Grand Forks	1.7	1.8	1.8	1.5	1.5	1.5	8.4	8.3	8.5
Ohio	1,094.9	1,097.7	1,100.3	207.0	207.2	209.4	1,093.9	1,110.6	1,126.7
Akron	66.1	66.9	66.8	12.8	12.8	12.9	65.3	65.7	66.4
Cincinnati	147.6	143.8	143.8	35.2	36.2	36.4	169.1	173.1	174.7
Cleveland	199.9	201.8	202.3	41.2	40.4	40.8	214.2	217.3	220.1
Columbus	103.4	102.1	102.5	27.7	28.1	28.4	166.2	171.4	173.7
Dayton-Springfield	104.0	103.0	103.3	15.4	15.4	15.7	96.9	98.5	100.0
Toledo	61.8	62.0	62.2	13.7	13.6	13.8	68.4	71.2	72.2
Youngstown-Warren	49.1	50.0	50.3	7.6	7.6	7.7	48.1	49.7	50.6
Oklahoma	153.7	154.9	155.8	63.3	60.9	61.2	269.5	262.3	265.1
Enid	1.6	1.6	1.6	2.2	2.1	2.2	6.4	6.2	6.4
Lawton	3.5	3.4	3.4	1.6	1.2	1.2	8.6	8.6	8.6
Oklahoma City	46.7	46.9	47.2	20.0	19.0	19.2	101.7	98.2	99.4
Tulsa	47.0	47.7	48.0	23.2	23.8	23.8	70.1	68.8	69.8
Oregon	201.1	205.5	207.6	57.8	58.8	58.9	273.4	283.8	287.1
Eugene-Springfield	19.6	19.7	19.8	4.1	4.3	4.4	26.6	26.6	27.0
Portland	93.2	97.4	98.2	34.0	35.0	34.8	143.6	148.1	149.8
Salem	12.4	12.3	12.7	2.9	2.9	2.9	21.3	21.7	22.0
Pennsylvania	1,040.7	1,046.4	1,048.5	248.1	245.7	247.1	1,118.6	1,132.4	1,143.3
Allentown-Bethlehem	78.8	75.9	76.2	14.0	13.8	13.9	59.5	60.8	61.1
Altoona	11.3	11.1	11.4	4.6	4.6	4.6	12.7	13.1	13.2
Beaver County	10.0	9.6	9.6	5.2	5.1	5.2	11.2	10.9	10.9
Erie	34.3	34.6	34.5	3.9	3.6	3.7	23.5	23.4	23.7
Harrisburg-Lebanon-Carlisle	51.3	52.2	52.1	18.2	18.2	18.3	66.6	67.3	67.9
Johnstown	13.0	13.5	13.3	5.2	5.2	5.2	16.3	16.4	16.7
Lancaster	60.4	59.5	59.7	7.1	7.0	7.2	42.6	43.6	44.8
Philadelphia PMSA	374.1	372.5	372.0	98.8	97.1	97.2	493.2	499.8	504.6
Philadelphia City	95.9	94.6	93.9	44.9	45.1	44.9	148.4	151.4	151.2
Pittsburgh	124.6	123.0	125.0	45.7	43.7	44.1	214.8	213.6	215.2

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	Finance, insurance, and real estate			Services			Government		
	May 1987	Apr. 1988	May 1988 ^a	May 1987	Apr. 1988	May 1988 ^a	May 1987	Apr. 1988	May 1988 ^a
New Mexico	27.2	27.3	27.5	122.8	125.0	125.6	140.2	142.8	141.8
Albuquerque	14.9	15.0	15.1	63.7	64.8	65.2	45.1	47.1	46.6
Las Cruces	1.7	1.7	1.7	6.1	6.7	6.7	17.6	17.0	16.8
Santa Fe	2.0	2.0	2.0	14.1	14.4	14.6	21.5	22.1	22.1
New York	785.8	795.3	795.9	2,196.1	2,274.7	2,287.3	1,418.5	1,446.7	1,453.4
Albany-Schenectady-Troy	22.5	22.9	23.1	99.6	104.0	104.8	111.2	112.8	113.2
Binghamton	4.0	4.1	4.1	21.9	22.4	22.5	21.2	21.5	21.6
Buffalo	25.6	27.3	27.6	111.1	114.2	115.6	74.0	74.5	75.2
Elmira	1.4	1.4	1.4	9.3	10.4	10.3	6.4	6.5	6.5
Nassau-Suffolk	74.3	77.5	77.7	286.3	292.2	296.3	182.3	188.2	187.9
New York PMSA	578.7	578.7	577.4	1,248.8	1,282.4	1,283.4	666.4	677.4	679.8
New York City	545.6	544.2	542.8	1,105.1	1,137.0	1,136.9	584.2	594.1	596.2
Niagara Falls	1.9	1.9	1.9	16.2	16.7	17.3	12.6	12.5	12.9
Orange County	4.0	4.0	4.1	21.9	22.3	22.6	22.3	22.8	23.1
Poughkeepsie	4.5	4.7	4.8	25.7	26.6	26.6	24.3	25.3	25.5
Rochester	21.6	21.8	21.9	110.9	114.8	116.3	65.6	66.2	68.4
Rockland County	4.9	5.4	5.4	23.9	24.3	24.5	21.4	21.4	21.7
Syracuse	19.2	19.4	19.4	70.6	76.9	73.7	51.4	51.7	51.8
Utica-Rome	6.6	6.9	7.0	26.1	27.5	27.6	29.3	29.8	29.9
Westchester County	27.5	28.4	28.4	114.8	115.8	116.6	57.1	58.0	58.1
North Carolina	126.1	131.0	131.1	484.6	507.5	511.5	448.7	460.3	455.6
Asheville	2.8	2.5	2.5	17.4	17.9	18.3	11.5	12.1	12.0
Charlotte-Gastonia-Rock Hill	36.2	36.9	36.8	104.4	111.8	113.1	63.1	64.2	63.8
Greensboro-Winston-Salem-High Point	22.7	23.5	23.5	81.5	83.1	84.3	52.5	54.3	54.1
Raleigh-Durham	22.8	23.3	23.5	93.2	98.3	97.8	85.2	90.1	86.3
North Dakota	12.6	12.3	12.3	60.6	63.0	63.2	66.2	65.2	65.9
Bismarck	1.7	1.6	1.6	10.3	10.8	10.7	8.4	8.5	8.6
Fargo-Moorhead	4.4	4.6	4.6	19.0	20.0	19.9	14.4	14.5	14.6
Grand Forks	1.2	1.1	1.2	6.7	6.9	6.9	9.3	9.4	9.4
Ohio	241.8	248.6	250.2	1,053.7	1,085.1	1,099.0	704.2	705.8	709.1
Akron	10.5	10.7	10.8	57.6	59.8	61.6	44.2	45.0	45.2
Cincinnati	40.0	41.7	41.9	169.1	177.4	180.0	89.3	89.6	89.6
Cleveland	53.9	55.6	56.0	233.3	240.9	243.0	117.6	117.4	117.3
Columbus	56.4	58.4	58.8	154.6	162.0	164.3	121.2	123.1	123.1
Dayton-Springfield	17.9	18.0	18.2	103.1	108.1	107.6	75.5	74.0	74.4
Toledo	11.4	11.2	11.3	70.9	73.8	74.5	43.3	43.8	44.2
Youngstown-Warren	8.2	8.3	8.3	44.1	44.6	45.3	24.4	24.2	24.8
Oklahoma	59.7	56.5	56.7	232.1	233.4	234.2	252.4	252.0	252.1
Enid	1.0	1.0	1.0	5.4	5.7	5.4	3.6	3.5	3.6
Lawton	1.6	1.5	1.5	5.7	5.8	5.9	11.8	11.9	12.0
Oklahoma City	25.0	23.8	23.8	88.8	89.6	89.9	97.7	97.0	97.4
Tulsa	17.5	17.1	17.1	69.9	69.9	69.5	35.7	36.1	36.0
Oregon	71.8	73.1	73.3	243.3	251.1	251.9	210.8	212.2	214.0
Eugene-Springfield	4.9	4.8	4.9	24.0	25.1	25.2	22.9	23.6	24.0
Portland	47.3	47.9	48.4	137.9	140.7	141.3	78.9	79.5	80.3
Salem	5.4	5.6	5.7	19.1	20.0	20.1	29.7	30.1	30.1
Pennsylvania	292.1	294.5	295.8	1,273.7	1,329.4	1,335.2	695.0	704.4	703.1
Allentown-Bethlehem	11.5	11.7	11.8	66.1	68.3	69.4	30.3	30.3	30.3
Altoona	1.6	1.7	1.8	10.8	11.1	11.0	7.1	7.3	7.4
Beaver County	1.8	1.8	1.8	11.3	11.7	11.8	7.9	8.1	8.1
Erie	5.3	5.4	5.4	26.0	27.5	27.5	13.8	13.6	13.9
Harrisburg-Lebanon-Carlisle	17.0	17.5	17.7	61.9	63.3	64.9	66.3	67.4	67.1
Johnstown	4.7	4.8	4.8	19.3	20.2	20.5	12.8	12.6	12.9
Lancaster	6.6	7.0	7.1	36.9	38.4	39.2	15.8	16.5	16.5
Philadelphia PMSA	162.9	163.5	163.3	607.8	631.3	630.4	301.5	303.9	304.8
Philadelphia City	72.8	73.1	73.2	249.9	255.9	253.5	142.2	142.9	143.5
Pittsburgh	54.2	53.6	53.7	263.4	277.0	275.6	105.8	107.1	105.9

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	Total			Mining			Construction		
	May 1987	Apr. 1988	May 1988 ^a	May 1987	Apr. 1988	May 1988 ^a	May 1987	Apr. 1988	May 1988 ^a
Pennsylvania—Continued									
Reading	146.7	152.5	153.1	(²)	(²)	(²)	6.3	6.8	7.1
Scranton-Wilkes-Barre	289.3	294.3	295.8	0.7	0.6	0.6	12.1	11.8	12.7
Williamsport	50.4	53.1	52.9	(²)	(²)	(²)	2.0	1.8	2.0
York	168.5	174.9	176.9	.4	.4	.5	9.6	10.7	11.0
Rhode Island	453.9	456.3	459.6	.1	.1	.1	19.5	19.5	20.2
Pawtucket-Woonsocket-Attleboro	133.6	133.2	134.5	.1	.1	.1	4.9	4.8	5.0
Providence	317.5	322.9	325.0	.1	.1	.1	14.3	14.5	15.0
South Carolina	1,400.3	1,440.1	1,450.7	1.6	1.6	1.6	86.8	88.4	90.6
Charleston	188.8	191.9	193.4	(¹)	(¹)	(¹)	13.7	13.5	13.6
Columbia	226.1	234.2	236.0	(¹)	(¹)	(¹)	13.8	14.1	14.4
Greenville-Spartanburg	309.7	315.3	316.1	(¹)	(¹)	(¹)	21.3	21.9	22.4
South Dakota	257.0	256.3	262.9	2.6	2.5	2.5	10.3	9.3	10.6
Rapid City	35.1	34.7	36.0	.3	.3	.3	2.3	2.0	2.3
Sioux Falls	63.4	65.0	66.6	(¹)	(¹)	(¹)	2.8	2.9	3.2
Tennessee	2,007.7	2,056.5	2,064.1	6.8	6.5	6.5	95.3	99.7	99.9
Chattanooga	187.0	191.4	192.4	.8	.8	.8	8.1	9.4	9.5
Johnson City-Kingsport-Bristol	158.0	163.9	164.3	.3	.2	.2	6.1	6.6	6.7
Knoxville	250.4	248.8	249.9	2.0	1.8	1.8	11.9	10.4	10.5
Memphis	419.3	432.1	437.6	.1	.1	.1	19.6	20.4	20.1
Nashville	471.3	463.1	463.0	.7	.6	.6	28.9	25.9	26.0
Texas	6,497.0	6,552.9	6,574.0	179.7	180.1	179.3	345.2	321.3	320.3
Abilene	48.4	49.3	49.3	2.1	2.1	2.1	2.0	2.0	2.0
Amarillo	77.2	78.2	78.6	1.4	1.2	1.2	3.4	3.6	3.7
Austin	357.3	352.3	352.0	.8	.7	.7	17.0	15.2	15.0
Beaumont-Port Arthur	128.2	127.3	129.8	1.5	1.5	1.5	7.3	7.6	7.8
Brazoria	57.0	58.4	58.4	1.8	1.8	1.8	5.9	6.5	6.4
Brownsville-Harlingen	65.7	67.0	67.2	.1	.1	.1	2.3	2.1	2.2
Bryan-College Station	47.3	48.3	48.2	.6	.6	.6	1.9	2.2	2.2
Corpus Christi	123.7	125.0	125.1	4.3	3.8	3.9	6.9	6.3	6.3
Dallas	1,329.6	1,326.4	1,333.8	18.7	18.2	18.2	63.9	52.1	51.9
El Paso	185.4	188.4	188.5	.1	.1	.1	9.6	9.3	9.4
Ft. Worth-Arlington	515.8	514.6	514.5	3.6	3.6	3.6	25.1	20.4	20.0
Galveston-Texas City	72.7	70.2	70.8	.6	.6	.6	4.5	2.9	2.9
Houston	1,376.7	1,399.0	1,404.2	61.2	63.5	63.3	83.8	81.2	81.7
Killeen-Temple	69.9	70.4	70.6	.1	.1	.1	3.7	3.5	3.5
Laredo	35.4	36.1	36.5	1.9	1.9	1.9	1.3	1.3	1.3
Longview-Marshall	64.0	65.7	65.7	3.5	3.5	3.5	3.0	3.4	3.4
Lubbock	91.3	91.9	92.3	.4	.4	.4	3.4	3.3	3.3
McAllen-Edinburg-Mission	87.9	89.5	89.7	.8	.9	.9	3.9	4.0	4.1
Midland	43.3	44.5	44.7	9.6	9.9	9.8	1.2	1.1	1.2
San Angelo	36.3	36.5	36.3	.4	.4	.4	1.6	1.6	1.6
San Antonio	502.9	511.1	510.5	2.6	2.7	2.6	29.4	27.2	27.0
Sherman-Denison	37.4	38.1	38.3	.1	.1	.1	1.7	1.7	1.6
Texarkana	45.1	45.1	44.9	.1	.1	.1	1.8	2.0	1.9
Waco	77.6	78.7	78.5	.1	.1	.1	3.5	3.7	3.7
Wichita Falls	50.0	50.5	50.6	1.9	1.9	2.0	1.7	2.0	2.0
Utah	639.4	646.7	650.0	6.1	8.4	8.1	27.5	22.4	23.8
Provo-Orem	71.6	79.5	77.1	(¹)	(¹)	(¹)	2.7	2.5	2.8
Salt Lake City-Ogden	446.4	450.6	452.9	2.7	2.7	2.7	18.9	16.3	17.0
Vermont	241.8	245.8	247.9	.6	.7	.7	16.5	16.6	17.3
Barre-Montpelier	32.9	34.1	34.4	.2	.2	.2	2.1	2.2	2.4
Burlington	73.7	77.5	78.0	(¹)	(¹)	(¹)	4.4	4.7	5.1

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Pennsylvania-Continued									
Reading	47.3	49.0	48.4	6.6	7.0	7.1	32.7	33.3	33.6
Scranton-Wilkes-Barre	71.5	71.0	70.8	15.3	15.7	15.8	66.0	67.1	67.5
Williamsport	16.2	16.8	16.7	1.9	1.9	1.9	11.3	12.2	12.4
York	57.1	60.2	60.5	7.4	7.9	8.0	41.0	41.7	42.3
Rhode Island									
.....	116.4	115.5	115.4	15.9	15.7	16.0	102.6	103.8	104.7
Pawtucket-Woonsocket-Attleboro	54.0	53.3	53.4	3.5	3.6	3.6	32.4	32.5	33.1
Providence	73.6	72.1	72.0	11.9	12.2	12.4	69.1	70.5	71.1
South Carolina									
.....	371.8	377.9	377.8	57.8	60.1	60.4	309.9	327.2	330.7
Charleston	19.5	20.2	20.2	10.0	9.9	10.1	46.9	47.0	47.3
Columbia	28.9	29.9	30.1	10.2	10.4	10.6	49.6	51.6	52.1
Greenville-Spartanburg	100.1	101.1	101.6	11.2	11.7	11.7	70.9	72.7	72.9
South Dakota									
.....	26.8	29.8	30.2	12.4	12.4	12.5	67.6	67.3	68.7
Rapid City	3.1	3.2	3.1	1.8	1.9	2.0	10.0	9.8	10.3
Sioux Falls	6.7	8.3	8.6	4.6	4.5	4.6	17.7	17.6	17.8
Tennessee									
.....	493.5	497.8	499.2	103.2	105.9	105.7	473.1	481.3	484.1
Chattanooga	44.6	46.2	46.3	8.7	8.3	8.3	42.6	44.0	44.5
Johnson City-Kingsport-Bristol	53.0	53.9	53.9	6.0	6.0	6.1	35.1	35.7	35.7
Knoxville	50.8	50.0	50.0	9.6	10.1	10.1	63.2	63.2	64.0
Memphis	52.4	53.1	53.5	38.5	39.1	40.1	116.3	119.5	123.8
Nashville	90.3	86.5	86.5	22.7	24.3	24.3	114.8	111.7	111.3
Texas									
.....	920.2	938.5	942.8	381.9	385.8	386.9	1,639.9	1,640.7	1,651.6
Abilene	4.5	4.6	4.7	2.4	2.4	2.4	13.4	13.6	13.6
Amarillo	9.8	10.0	10.0	5.7	5.9	5.9	22.1	22.5	22.7
Austin	39.4	39.2	39.1	10.8	10.8	10.9	79.1	77.5	77.5
Beaumont-Port Arthur	24.8	24.1	25.5	9.6	9.4	9.6	31.8	31.0	31.6
Brazoria	15.2	15.6	15.7	2.3	2.3	2.3	11.1	11.0	11.0
Brownsville-Harlingen	9.7	10.3	10.4	3.1	3.1	3.1	17.5	17.4	17.4
Bryan-College Station	3.0	3.2	3.1	1.5	1.5	1.7	9.9	9.6	9.6
Corpus Christi	11.3	11.2	11.1	6.9	6.9	6.9	31.8	32.3	32.4
Dallas	221.5	220.7	222.0	89.3	91.0	91.6	344.9	345.7	348.4
El Paso	35.9	37.6	37.1	10.2	10.6	10.6	46.0	46.7	46.7
Ft. Worth-Arlington	113.9	117.2	117.4	29.6	30.9	30.9	137.8	133.2	132.9
Galveston-Texas City	8.7	8.5	8.5	5.8	4.5	4.5	14.1	14.4	14.6
Houston	143.6	150.2	150.0	96.7	99.0	99.0	346.7	351.1	353.4
Killeen-Temple	8.1	8.0	8.0	2.7	2.7	2.7	16.0	16.2	16.3
Laredo	1.8	1.5	1.5	4.4	4.8	4.9	10.3	10.3	10.5
Longview-Marshall	15.4	15.7	15.9	3.2	3.2	3.1	16.4	16.7	16.8
Lubbock	7.3	7.3	7.3	4.9	5.0	5.0	26.7	27.4	27.7
McAllen-Edinburg-Mission	11.8	11.6	12.0	2.9	2.7	2.7	26.7	26.7	26.6
Midland	2.9	2.6	2.8	2.1	2.2	2.2	10.0	10.1	10.2
San Angelo	5.6	5.6	5.5	3.1	3.1	3.1	9.6	9.4	9.4
San Antonio	46.7	47.1	47.0	18.1	18.0	18.0	130.1	132.2	132.1
Sherman-Denison	10.9	11.1	11.3	2.0	2.0	2.1	8.4	8.4	8.4
Texarkana	7.3	7.2	7.0	1.8	1.7	1.7	10.3	10.6	10.7
Waco	14.8	14.8	15.0	3.2	3.3	3.3	19.0	19.1	19.1
Wichita Falls	8.4	8.1	8.1	2.6	2.6	2.6	12.1	12.1	12.2
Utah									
.....	91.3	95.3	96.1	37.5	38.4	38.6	151.6	150.4	151.4
Provo-Orem	10.3	12.5	12.5	2.7	3.0	3.0	15.4	16.4	16.4
Salt Lake City-Ogden	61.3	62.6	62.9	28.6	29.5	29.5	111.0	110.7	111.0
Vermont									
.....	48.7	49.1	49.3	10.0	10.4	10.6	55.4	57.2	57.9
Barre-Montpelier	4.5	4.6	4.6	.9	.9	.9	6.9	7.2	7.3
Burlington	16.3	17.0	16.7	2.9	2.9	3.0	17.2	17.9	18.2

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	Finance, insurance, and real estate			Services			Government		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Pennsylvania-Continued									
Reading	7.4	7.8	8.1	29.3	31.1	31.2	17.1	17.5	17.6
Scranton-Wilkes-Barre	12.7	13.0	12.9	69.6	73.1	74.0	41.4	42.0	41.5
Williamsport	2.3	2.4	2.4	9.5	10.6	10.4	7.2	7.4	7.1
York	5.0	5.2	5.2	29.6	30.6	31.1	18.4	18.2	18.3
Rhode Island									
.....	25.5	25.8	26.0	115.0	116.7	117.8	58.9	59.2	59.4
Pawtucket-Woonsocket-Attleboro	3.6	3.6	3.6	24.9	25.0	25.4	10.2	10.3	10.3
Providence	21.2	21.6	21.7	83.5	86.9	87.6	43.8	45.0	45.1
South Carolina									
.....	64.4	65.8	66.3	245.2	254.6	258.2	263.0	264.5	265.1
Charleston	8.5	8.6	8.8	39.7	40.0	40.4	50.4	52.6	52.9
Columbia	17.9	19.0	19.0	43.0	44.4	44.7	62.3	64.4	64.7
Greenville-Spartanburg	11.7	12.0	12.0	52.2	55.6	55.6	42.0	40.0	39.6
South Dakota									
.....	14.4	14.2	14.4	62.2	61.2	63.1	60.6	59.8	60.9
Rapid City	1.8	1.7	1.7	9.0	9.0	9.3	6.9	6.9	7.1
Sioux Falls	6.2	6.2	6.3	17.8	18.0	18.6	7.6	7.4	7.4
Tennessee									
.....	101.9	102.1	102.4	407.3	422.5	426.0	326.6	340.7	340.3
Chattanooga	12.0	11.6	11.6	36.8	36.9	37.3	33.5	34.2	34.1
Johnson City-Kingsport-Bristol	5.3	5.3	5.4	27.8	31.4	31.6	24.5	24.8	24.7
Knoxville	9.5	9.6	9.6	52.0	51.2	51.8	51.5	52.5	52.1
Memphis	24.2	24.9	24.9	97.3	100.0	100.3	70.9	75.0	74.8
Nashville	33.2	33.4	33.3	116.6	112.2	112.0	64.2	68.5	69.0
Texas									
.....	444.7	438.5	438.6	1,426.1	1,471.0	1,477.7	1,159.3	1,177.0	1,176.8
Abilene	2.6	2.6	2.6	13.1	13.1	13.0	8.3	8.9	8.9
Amarillo	4.5	4.4	4.4	16.2	16.3	16.4	14.1	14.3	14.3
Austin	25.3	24.9	24.9	84.8	83.7	83.8	100.1	100.3	100.1
Beaumont-Port Arthur	5.3	5.3	5.3	27.8	28.0	28.1	20.1	20.4	20.4
Brazoria	2.0	2.0	2.0	7.7	8.1	8.1	11.0	11.1	11.1
Brownsville-Harlingen	3.5	3.5	3.5	13.3	14.0	13.9	16.3	16.6	16.7
Bryan-College Station	1.8	1.7	1.7	8.2	8.5	8.7	20.4	21.0	20.6
Corpus Christi	6.9	7.0	6.9	28.0	29.4	29.4	27.6	28.1	28.2
Dallas	133.5	128.5	128.7	307.9	318.9	321.7	149.9	151.3	151.3
El Paso	9.5	9.5	9.6	34.6	35.5	35.8	39.6	39.2	39.3
Ft. Worth-Arlington	28.0	26.9	26.8	111.3	113.6	114.3	66.5	68.8	68.6
Galveston-Texas City	4.2	4.1	4.2	13.8	14.5	14.8	21.0	20.7	20.7
Houston	102.4	97.1	96.9	355.4	367.2	369.8	186.9	189.7	190.1
Killeen-Temple	3.0	3.0	2.9	15.2	15.4	15.6	21.1	21.5	21.5
Laredo	1.6	1.7	1.6	5.8	6.0	6.1	8.3	8.6	8.7
Longview-Marshall	2.9	2.7	2.7	11.2	12.0	11.8	8.4	8.5	8.5
Lubbock	5.5	5.5	5.4	21.4	21.7	21.9	21.7	21.3	21.3
McAllen-Edinburg-Mission	3.6	3.7	3.8	14.2	14.6	14.3	24.0	25.3	25.3
Midland	2.6	2.5	2.5	8.5	8.7	8.8	6.4	7.2	7.2
San Angelo	1.8	1.8	1.8	7.7	7.8	7.7	6.5	6.8	6.8
San Antonio	39.9	40.2	40.3	120.0	126.2	126.0	116.1	117.5	117.5
Sherman-Denison	1.7	1.7	1.7	8.2	8.8	8.8	4.4	4.3	4.3
Texarkana	1.9	1.9	1.8	9.3	9.5	9.6	12.6	12.1	12.1
Waco	4.8	4.7	4.7	19.7	20.5	20.2	12.5	12.5	12.4
Wichita Falls	2.3	2.3	2.3	11.5	11.6	11.5	9.5	9.9	9.9
Utah									
.....	33.6	33.5	33.9	144.9	154.3	152.9	145.1	144.0	145.2
Provo-Orem	2.3	2.3	2.3	24.2	28.9	26.1	13.9	13.9	14.0
Salt Lake City-Ogden	27.6	27.8	27.8	101.0	106.5	107.3	95.2	94.5	94.7
Vermont									
.....	11.9	12.1	12.2	58.3	59.2	59.4	40.4	40.5	40.5
Barre-Montpelier	3.0	2.9	2.9	7.0	7.7	7.7	8.3	8.4	8.4
Burlington	3.5	3.7	3.7	17.8	19.0	19.3	11.6	12.3	12.0

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Virginia	2,681.3	2,763.1	2,786.8	15.3	14.9	15.0	183.5	189.2	195.5
Bristol	31.2	33.1	33.3	.1	.1	.1	.9	.9	1.0
Charlottesville	65.2	68.5	67.6	.1	.1	.1	3.6	3.7	3.7
Danville	40.2	40.3	41.2	.1	.1	.1	1.7	1.8	2.0
Lynchburg	72.3	72.8	72.7	.1	.1	.1	3.3	3.4	3.5
Norfolk-Virginia Beach-Newport News	553.4	566.3	571.6	.1	.1	.1	39.5	38.7	39.2
Northern Virginia	704.9	737.9	746.8	.5	.5	.5	52.4	55.3	57.9
Richmond-Petersburg	434.2	448.2	449.2	.5	.5	.6	28.4	29.9	30.5
Roanoke	120.6	118.6	119.2	.1	.2	.2	7.5	7.4	7.6
Washington ..	1,836.6	1,903.2	1,919.5	3.0	3.3	3.3	86.4	93.2	96.1
Seattle	923.6	969.4	975.2	.6	.6	.6	45.8	50.9	51.4
West Virginia ..	600.5	600.2	616.4	35.6	33.6	33.6	24.1	22.1	25.3
Charleston	105.9	105.4	107.4	2.2	2.1	2.0	4.1	3.7	4.2
Huntington-Ashland	103.1	102.7	104.3	1.3	1.4	1.4	4.3	3.8	4.4
Parkersburg-Marietta	59.7	59.5	60.4	.6	.6	.6	3.0	2.6	3.0
Wheeling	58.4	57.9	59.5	2.1	1.9	1.9	1.9	1.8	2.1
Wisconsin	2,078.6	2,123.2	2,147.0	2.2	2.3	2.4	68.1	68.1	72.2
Appleton-Oshkosh-Neenah	142.9	147.8	149.3	(¹)	(¹)	(¹)	5.9	6.2	6.2
Eau Claire	55.5	57.5	58.5	(¹)	(¹)	(¹)	1.5	1.5	1.6
Green Bay	93.6	96.4	97.1	(¹)	(¹)	(¹)	3.3	3.1	3.4
Janesville-Beloit	54.4	56.3	56.7	(¹)	(¹)	(¹)	1.3	1.1	1.1
Kenosha	40.8	42.1	42.1	(¹)	(¹)	(¹)	1.3	.8	.7
La Crosse	51.3	53.7	54.0	(¹)	(¹)	(¹)	1.3	1.5	1.7
Madison	198.8	204.8	205.3	(¹)	(¹)	(¹)	7.1	7.3	7.6
Milwaukee	693.0	710.0	715.6	(¹)	(¹)	(¹)	21.6	21.3	21.5
Racine	69.1	70.9	71.4	(¹)	(¹)	(¹)	1.6	1.8	1.7
Wausau ..	45.4	46.9	47.5	(¹)	(¹)	(¹)	1.3	1.3	1.4
Wyoming	180.2	174.7	177.6	16.8	17.2	17.4	11.2	7.8	8.7
Puerto Rico	751.7	773.8	776.6	.8	.8	.8	34.5	36.6	37.0
Caguas	48.8	50.3	50.5	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Mayaguez	54.7	55.8	55.9	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Ponce	49.0	50.6	50.4	.1	.2	.2	2.8	3.6	3.5
San Juan	463.3	480.2	482.1	.4	.5	.4	25.9	27.0	27.2
Virgin Islands	38.8	40.8	40.3	(¹)	(¹)	(¹)	1.5	2.0	1.9

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Virginia	427.5	425.0	425.3	141.8	144.3	145.1	605.7	631.2	638.2
Bristol	10.4	11.2	11.4	1.1	1.1	1.1	7.7	8.3	8.2
Charlottesville	8.7	8.7	8.7	2.2	2.3	2.3	13.1	14.1	14.2
Danville	16.8	16.4	16.7	1.0	1.0	1.0	8.3	8.9	9.1
Lynchburg	23.9	23.3	23.2	3.0	2.8	2.8	14.6	15.1	15.3
Norfolk-Virginia Beach-Newport News	67.2	69.2	69.5	26.4	25.8	26.0	135.1	137.9	140.2
Northern Virginia	34.8	35.4	35.1	49.1	51.5	52.5	157.9	166.7	168.2
Richmond-Petersburg	61.9	62.6	62.1	22.7	23.3	23.6	103.4	108.6	109.5
Roanoke	19.6	19.1	19.1	9.0	8.5	8.5	33.0	31.9	32.0
Washington	313.1	328.8	330.8	97.6	100.9	102.0	449.7	462.3	468.2
Seattle	179.9	191.8	192.1	58.6	59.7	60.1	224.3	233.3	235.7
West Virginia	85.9	84.8	85.0	36.7	38.6	36.5	138.3	141.8	143.2
Charleston	11.2	10.9	10.8	8.2	8.5	8.5	27.9	28.0	28.1
Huntington-Ashland	19.0	19.0	19.1	8.0	7.7	7.7	26.4	26.7	26.9
Parkersburg-Marietta	13.8	13.8	13.8	2.1	2.1	2.1	14.6	14.4	14.7
Wheeling	7.0	7.1	7.1	3.3	3.2	3.3	15.8	15.8	16.1
Wisconsin	518.7	538.4	541.7	95.0	95.6	97.3	492.3	502.1	512.1
Appleton-Oshkosh-Neenah	49.5	51.7	52.3	5.2	5.2	5.4	30.8	31.4	31.9
Eau Claire	10.3	10.6	10.8	3.5	3.6	3.8	15.9	16.5	16.8
Green Bay	24.1	24.6	24.8	6.4	6.3	6.3	25.0	25.3	25.5
Janesville-Beloit	17.4	17.8	17.9	2.3	2.4	2.4	13.4	13.7	14.0
Kenosha	13.0	14.6	14.5	1.4	1.3	1.3	8.9	9.1	9.2
La Crosse	10.6	11.2	11.2	2.5	2.6	2.6	14.0	14.3	14.5
Madison	22.2	23.1	22.9	7.1	7.3	7.4	44.0	45.5	45.7
Milwaukee	167.7	173.4	174.4	34.9	35.1	35.8	159.1	163.2	165.5
Racine	24.1	24.8	24.7	2.3	2.3	2.4	16.5	16.8	17.2
Wausau	12.5	13.3	13.5	2.7	2.9	3.0	11.2	11.5	11.6
Wyoming	7.6	7.9	8.0	12.7	12.6	12.7	39.8	38.7	39.0
Puerto Rico	149.3	154.7	154.6	16.5	16.0	15.8	135.8	138.1	140.5
Caguas	15.3	15.1	15.1	(¹)	(¹)	(¹)	9.2	9.5	9.6
Mayaguez	19.8	20.3	20.2	(¹)	(¹)	(¹)	7.7	7.8	7.9
Ponce	9.5	9.5	9.1	(¹)	(¹)	(¹)	7.9	7.9	8.1
San Juan	64.3	66.2	66.2	12.8	13.0	12.8	93.7	97.8	99.4
Virgin Islands	2.1	2.3	2.3	2.6	2.6	2.6	9.2	9.6	9.4

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		
	May 1987	Apr. 1988	May 1988 ^o	May 1987	Apr. 1988	May 1988 ^o	May 1987	Apr. 1988	May 1988 ^o
Virginia	143.6	147.3	148.3	629.8	666.2	674.8	534.1	545.0	544.6
Bristol	1.2	1.3	1.3	4.7	5.1	5.1	5.2	5.1	5.1
Charlottesville	3.5	3.6	3.6	11.9	12.0	12.1	22.1	24.0	22.9
Danville	1.2	1.2	1.3	5.8	5.7	5.8	5.2	5.2	5.2
Lynchburg	3.8	4.0	4.0	14.3	14.4	14.1	9.4	9.7	9.7
Norfolk-Virginia Beach-Newport News	26.6	27.5	27.5	130.1	138.7	141.0	128.5	128.4	128.1
Northern Virginia	45.5	48.4	48.6	222.9	237.1	239.9	141.8	143.0	144.1
Richmond-Petersburg	36.4	35.8	36.1	91.4	95.7	95.7	89.5	91.8	91.1
Roanoke	8.0	8.5	8.6	27.7	27.7	27.6	15.6	15.3	15.6
Washington	107.3	107.6	108.1	416.4	442.4	445.4	363.1	364.7	365.6
Seattle	67.9	68.2	68.3	214.3	232.8	234.3	132.2	132.1	132.7
West Virginia	24.1	24.4	24.3	125.6	125.6	126.0	130.2	131.3	142.5
Charleston	6.0	6.0	6.0	25.2	25.2	25.2	21.1	21.0	22.6
Huntington-Ashland	3.9	3.8	3.8	20.2	21.4	21.7	20.0	18.9	19.3
Parkersburg-Manetta	2.3	2.3	2.3	13.5	13.7	13.6	9.8	10.0	10.3
Wheeling	2.7	2.7	2.7	15.8	15.7	15.9	9.8	9.7	10.4
Wisconsin	112.3	113.5	113.9	453.9	463.9	467.8	336.2	339.3	339.6
Appleton-Oshkosh-Neenah	7.1	7.5	7.6	27.1	28.0	28.1	16.9	17.5	17.5
Eau Claire	1.9	1.9	2.0	11.7	12.3	12.2	10.7	11.1	11.3
Green Bay	3.4	3.5	3.5	20.5	22.3	22.4	11.0	11.3	11.2
Janesville-Beloit	1.6	1.7	1.7	11.7	12.6	12.6	6.6	6.9	6.9
Kenosha	1.3	1.4	1.4	8.4	8.4	8.5	6.5	6.5	6.5
La Crosse	1.4	1.5	1.5	13.8	14.3	14.3	7.6	8.3	8.2
Madison	17.5	18.1	18.2	42.8	44.1	44.3	58.0	59.3	59.0
Milwaukee	48.6	48.8	48.6	178.2	185.0	185.5	82.5	82.9	84.0
Racine	2.3	2.3	2.3	14.1	14.7	14.8	8.2	8.2	8.3
Wausau	3.4	3.4	3.4	7.9	8.2	8.3	6.3	6.3	6.3
Wyoming	7.5	7.2	7.2	31.8	31.0	31.9	52.8	52.3	52.7
Puerto Rico	34.4	36.3	36.2	110.3	114.2	114.3	270.2	277.1	277.4
Caguas	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	15.3	15.5	15.5
Mayaguez	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	18.1	18.6	18.6
Ponce	(¹)	(¹)	(¹)	9.3	9.2	9.3	16.4	17.0	17.0
San Juan	28.2	29.4	29.4	79.0	81.5	81.4	159.1	164.8	165.3
Virgin Islands	1.7	1.7	1.7	9.1	9.7	9.5	12.6	12.9	12.9

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

NOTE: Area definitions are published annually in the May issue of this publication. All State and area data have been adjusted to March 1987 benchmarks except Colorado. Data for Colorado have been adjusted to December 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	12.46	525.81	37.4	12.48	466.75
1987	34.8	8.98	312.50	42.4	12.52	530.85	37.8	12.69	479.68
Monthly data, not seasonally adjusted									
1987:									
June	35.0	\$8.91	\$311.85	42.3	\$12.52	\$529.60	38.1	\$12.66	\$482.35
July	35.0	8.90	311.50	42.0	12.41	521.22	38.6	12.60	486.36
August	35.2	8.94	314.69	42.7	12.40	529.48	38.6	12.68	489.45
September	34.7	9.05	314.04	42.3	12.50	528.75	36.5	12.79	466.84
October	34.9	9.08	316.89	42.9	12.42	532.82	38.8	12.82	497.42
November	34.8	9.13	317.72	42.6	12.54	534.20	37.1	12.83	475.99
December	34.8	9.13	317.72	43.1	12.60	543.06	37.6	12.81	481.66
1988:									
January	34.4	9.18	315.79	42.1	12.77	537.62	35.9	12.99	466.34
February	34.5	9.17	316.37	41.8	12.71	531.28	36.1	12.82	462.80
March	34.4	9.18	315.79	41.9	12.59	527.52	37.4	12.87	481.34
April	34.7	9.23	320.28	42.8	12.60	539.28	37.9	12.88	488.15
May ^a	34.6	9.25	320.05	42.1	12.52	527.09	38.3	12.88	493.30
June ^b	35.0	9.23	323.05	42.3	12.54	530.44	38.7	12.90	499.23

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	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	38.3	9.35	358.11
1987	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.59	365.38
Monthly data, not seasonally adjusted										
1987:										
June	41.1	\$9.87	\$9.44	\$405.66	39.2	\$11.94	\$468.05	38.3	\$9.54	\$365.38
July	40.6	9.87	9.45	400.72	39.6	12.00	475.20	38.2	9.56	365.19
August	40.9	9.86	9.42	403.27	39.7	12.06	478.78	38.3	9.60	367.68
September	40.8	9.99	9.53	407.59	39.2	12.11	474.71	38.0	9.64	366.32
October	41.3	9.95	9.48	410.94	39.4	12.12	477.53	38.3	9.65	369.60
November	41.4	10.01	9.54	414.41	39.3	12.21	479.85	38.2	9.72	371.30
December	41.8	10.07	9.59	420.93	39.2	12.24	479.81	38.2	9.73	371.69
1988:										
January	41.0	10.07	9.62	412.87	39.0	12.16	474.24	37.9	9.78	370.66
February	40.7	10.05	9.63	409.04	38.9	12.23	475.75	37.9	9.78	370.66
March	40.9	10.07	9.64	411.86	38.6	12.19	470.53	37.9	9.78	370.66
April	41.0	10.12	9.68	414.92	39.2	12.27	480.98	38.2	9.88	377.42
May ^a	40.9	10.14	9.69	414.73	39.0	12.25	477.75	38.0	9.87	375.06
June ^b	41.1	10.16	9.70	417.58	39.5	12.20	481.90	38.2	9.85	376.27

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	8.36	304.30	32.5	8.18	265.85
1987	29.2	6.11	178.41	36.3	8.73	316.90	32.5	8.48	275.60
Monthly data, not seasonally adjusted									
1987:									
June	29.6	\$6.08	\$179.97	36.4	\$8.63	\$314.13	32.7	\$8.37	\$273.70
July	30.0	6.07	182.10	36.2	8.63	312.41	32.8	8.34	273.55
August	30.2	6.07	183.31	36.4	8.74	318.14	32.9	8.40	276.36
September	29.5	6.20	182.90	36.0	8.73	314.28	32.4	8.54	276.70
October	29.1	6.16	179.26	36.2	8.76	317.11	32.5	8.61	279.83
November	29.0	6.18	179.22	36.3	8.89	322.71	32.5	8.71	283.08
December	29.3	6.19	181.37	36.0	8.81	317.16	32.4	8.73	282.85
1988:									
January	28.3	6.24	176.59	36.2	8.96	324.35	32.4	8.81	285.44
February	28.5	6.23	177.56	36.4	9.02	328.33	32.6	8.81	287.21
March	28.6	6.24	178.46	35.8	8.97	321.13	32.3	8.80	284.24
April	28.9	6.26	180.91	36.2	9.03	326.89	32.6	8.82	287.53
May ^p	28.9	6.27	181.20	35.7	9.09	324.51	32.4	8.84	286.42
June ^p	29.5	6.27	184.97	35.8	8.95	320.41	32.7	8.78	287.11

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 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 forward are subject to revision.

**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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Total private		34.8	35.0	34.7	34.6	35.0					
Mining		42.4	42.3	42.8	42.1	42.3					
Metal mining	10	41.7	41.9	42.7	42.1						
Iron ores	101	41.2	41.4	39.8	40.2						
Copper ores	102	42.7	42.6	45.1	43.7						
Coal mining	11,12	42.1	42.8	42.2	41.1						
Bituminous coal and lignite mining	12	42.2	42.8	42.2	41.2						
Oil and gas extraction	13	41.2	40.7	42.2	41.1						
Crude petroleum, natural gas, and natural gas liquids	131,2	40.8	40.6	41.8	39.8						
Oil and gas field services	138	41.5	40.8	42.4	41.8						
Nonmetallic minerals, except fuels	14	46.3	46.5	45.7	46.3						
Crushed and broken stone	142	48.0	48.2	47.2	47.4						
Construction		38.5	38.1	37.9	38.3	38.7					
General building contractors	15	37.8	37.5	37.4	37.6						
Residential building construction	152	37.3	37.1	36.5	36.8						
Operative builders	153	37.9	38.0	38.1	39.2						
Nonresidential building construction	154	38.4	38.0	38.3	38.4						
Heavy construction contractors	16	42.8	41.7	41.7	42.6						
Highway and street construction	161	43.9	42.7	41.9	43.8						
Heavy construction, except highway	162	42.1	41.0	41.6	41.9						
Special trade contractors	17	37.6	37.4	37.1	37.3						
Plumbing, heating, and air conditioning	171	38.5	38.2	38.3	38.5						
Painting, paper hanging, and decorating	172	36.8	36.2	35.8	35.9						
Electrical work	173	38.7	38.9	38.6	38.7						
Masonry, stonework, and plastering	174	35.5	35.6	35.3	35.5						
Carpentering and flooring	175	36.0	36.1	35.5	35.8						
Roofing and sheet metal work	176	34.3	34.1	34.2	34.1						
Manufacturing		40.9	41.1	41.0	40.9	41.1	3.6	3.7	3.7	3.7	3.9
Durable goods		41.5	41.7	41.7	41.7	41.9	3.6	3.8	4.0	4.0	4.1
Lumber and wood products	24	41.3	41.3	40.6	40.4	40.7	4.0	4.1	3.5	3.7	
Logging camps and logging contractors	241	40.4	40.7	40.6	40.3	-	4.2	4.3	4.2	4.7	
Sawmills and planing mills	242	42.6	42.4	41.8	41.4	4.7	4.8	4.3	4.4		
Sawmills and planing mills, general	2421	42.8	42.5	42.2	41.8	4.9	4.9	4.7	4.6		
Hardwood dimension and flooring	2426	42.0	42.1	40.0	39.7	4.2	4.3	3.0	3.2		
Millwork, plywood, and structural members	243	41.8	41.6	40.3	40.0	4.0	4.1	3.2	3.3		
Millwork	2431	42.4	42.5	40.5	40.6	3.8	4.1	2.7	2.8		
Wood kitchen cabinets	2434	40.3	40.8	39.2	39.0	3.3	3.5	2.7	2.8		
Hardwood veneer and plywood	2435	41.3	41.2	41.0	40.9	3.9	3.9	3.5	3.7		
Softwood veneer and plywood	2436	43.1	41.6	43.0	40.8	4.9	4.7	4.9	4.8		
Wood containers	244	38.5	39.1	39.3	39.4	2.9	3.3	3.2	3.6		
Wood buildings and mobile homes	245	39.7	39.9	39.0	40.0	2.8	3.5	2.3	3.0		
Mobile homes	2451	38.9	39.4	38.8	39.5	2.3	3.2	2.2	2.9		
Miscellaneous wood products	249	40.5	40.6	40.3	40.3	3.2	3.4	3.0	3.1		
Furniture and fixtures	25	39.6	40.0	39.1	39.0	39.2	2.5	2.7	2.5	2.4	
Household furniture	251	39.3	39.5	38.7	38.5	-	2.4	2.5	2.3	2.2	
Wood household furniture	2511	39.8	40.1	39.2	39.2	2.5	2.7	2.5	2.6		
Upholstered household furniture	2512	38.2	38.4	37.1	36.6	1.8	2.0	1.5	1.3		
Metal household furniture	2514	41.4	41.2	41.5	40.1	4.1	3.3	3.7	3.0		
Mattresses and bedspings	2515	37.7	38.7	39.6	39.4	2.5	2.7	3.2	3.2		
Office furniture	252	40.3	40.8	40.0	40.0	2.9	3.0	2.5	2.2		
Public building and related furniture	253	39.9	40.5	40.4	40.4	2.6	3.4	3.8	3.9		
Partitions and fixtures	254	40.2	41.1	40.3	40.3	2.8	3.3	3.0	2.9		
Miscellaneous furniture and fixtures	259	40.0	40.4	37.9	38.0	2.4	2.5	1.8	2.0		
Stone, clay, and glass products	32	42.8	42.5	42.5	42.8	42.7	5.3	5.2	5.1	5.3	
Flat glass	321	46.3	46.7	45.7	46.2	7.1	6.0	7.4	7.9		
Glass and glassware, pressed or blown	322	41.3	41.3	41.8	41.5	4.7	4.8	4.7	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				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Total private		\$8.93	\$8.91	\$9.23	\$9.25	\$9.23	\$310.76	\$311.85	\$320.28	\$320.05	\$323.05
Mining		12.50	12.52	12.60	12.52	12.54	530.00	529.60	539.28	527.09	530.44
Metal mining	10	12.86	12.91	13.08	12.96		536.26	540.93	558.52	545.62	
Iron ores	101	14.14	14.20	13.81	13.41		582.57	587.88	549.64	539.08	
Copper ores	102	11.48	11.37	11.80	11.56		490.20	484.36	532.18	505.17	
Coal mining	11,12	15.61	15.65	15.79	15.81		657.18	669.82	666.34	649.79	
Bituminous coal and lignite mining	12	15.67	15.71	15.84	15.86		661.27	672.39	668.45	653.43	
Oil and gas extraction	13	11.55	11.52	11.68	11.56		475.86	468.86	492.90	475.12	
Crude petroleum, natural gas, and natural gas liquids	131,2	13.96	13.98	14.38	14.30		569.57	567.59	601.08	569.14	
Oil and gas field services	138	10.01	9.97	10.17	10.09		415.42	406.78	431.21	421.76	
Nonmetallic minerals, except fuels	14	10.56	10.64	10.83	10.90		488.93	494.76	494.93	504.67	
Crushed and broken stone	142	10.05	10.07	10.25	10.29		482.40	485.37	483.80	487.75	
Construction		12.66	12.66	12.88	12.88	12.90	487.41	482.35	488.15	493.30	499.23
General building contractors	15	11.63	11.61	12.11	12.09		439.61	435.38	452.91	454.58	
Residential building construction	152	10.92	10.88	11.46	11.47		407.32	403.65	418.29	422.10	
Operative builders	153	10.09	10.28	10.84	11.06		382.41	390.64	413.00	433.55	
Nonresidential building construction	154	12.50	12.52	12.89	12.86		480.00	475.76	493.69	493.82	
Heavy construction contractors	16	12.17	12.21	12.18	12.33		520.88	509.16	507.91	525.26	
Highway and street construction	161	11.92	12.12	11.88	12.25		523.29	517.52	497.77	536.55	
Heavy construction, except highway	162	12.32	12.28	12.35	12.38		518.67	503.48	513.76	518.72	
Special trade contractors	17	13.26	13.24	13.42	13.39		498.58	495.18	497.88	499.45	
Plumbing, heating, and air conditioning	171	13.51	13.45	13.74	13.74		520.14	513.79	526.24	528.99	
Painting, paper hanging, and decorating	172	12.54	12.52	12.73	12.66		461.47	453.22	455.73	454.49	
Electrical work	173	14.69	14.69	14.68	14.68		568.50	571.44	566.65	568.12	
Masonry, stonework, and plastering	174	13.53	13.56	13.60	13.67		480.32	482.74	480.08	485.29	
Carpentering and flooring	175	12.50	12.46	12.72	12.81		450.00	449.81	451.56	458.60	
Roofing and sheet metal work	176	11.57	11.58	11.91	11.94		396.85	394.88	407.32	407.15	
Manufacturing		9.87	9.87	10.12	10.14	10.16	403.68	405.66	414.92	414.73	417.58
Durable goods		10.38	10.40	10.65	10.67	10.69	430.77	433.68	444.11	444.94	447.91
Lumber and wood products	24	8.37	8.43	8.50	8.53	8.57	345.68	348.16	345.10	344.61	348.80
Logging camps and logging contractors	241	10.63	10.78	10.61	10.65	-	429.45	438.75	430.77	429.20	
Sawmills and planing mills	242	8.55	8.59	8.67	8.66		364.23	364.22	362.41	358.52	
Sawmills and planing mills, general	2421	8.90	8.95	9.02	8.98		380.92	380.38	380.64	375.36	
Hardwood dimension and flooring	2426	6.78	6.77	6.96	7.01		284.76	285.02	278.40	278.30	
Millwork, plywood, and structural members	243	8.32	8.33	8.56	8.59		347.78	346.53	344.97	343.60	
Millwork	2431	8.63	8.63	8.74	8.85		365.91	365.78	353.97	359.31	
Wood kitchen cabinets	2434	7.64	7.66	7.88	7.93		307.89	312.53	308.90	309.27	
Hardwood veneer and plywood	2435	6.79	6.85	6.94	7.03		280.43	282.22	284.54	287.53	
Softwood veneer and plywood	2436	9.65	9.77	10.20	10.16		415.92	406.43	438.60	414.53	
Wood containers	244	6.14	6.20	6.33	6.38		236.39	242.42	248.77	251.37	
Wood buildings and mobile homes	245	7.86	7.92	8.06	8.07		312.04	316.01	314.34	322.80	
Mobile homes	2451	7.92	8.01	8.16	8.22		308.09	315.59	316.61	324.69	
Miscellaneous wood products	249	7.32	7.38	7.32	7.38		296.46	299.63	295.00	297.41	
Furniture and fixtures	25	7.63	7.66	7.81	7.87	7.89	302.15	306.40	305.37	306.93	309.29
Household furniture	251	7.04	7.04	7.22	7.25		276.67	278.08	279.41	279.13	
Wood household furniture	2511	6.52	6.50	6.75	6.80		259.50	260.65	264.60	266.56	
Upholstered household furniture	2512	7.73	7.75	7.96	7.93		295.29	297.60	295.32	290.24	
Metal household furniture	2514	6.98	7.05	6.90	7.08		288.97	290.46	286.35	283.91	
Mattresses and bedspreads	2515	7.63	7.60	7.79	7.71		287.65	294.12	308.48	303.77	
Office furniture	252	8.67	8.70	8.87	8.94		349.40	354.96	354.80	357.60	
Public building and related furniture	253	8.13	8.12	8.21	8.35		324.39	328.86	331.68	337.34	
Partitions and fixtures	254	9.07	9.12	9.33	9.37		364.61	374.83	376.00	377.61	
Miscellaneous furniture and fixtures	259	8.00	8.17	8.20	8.26		320.00	330.07	310.78	313.88	
Stone, clay, and glass products	32	10.26	10.28	10.41	10.44	10.45	439.13	436.90	442.43	446.83	446.22
Flat glass	321	14.50	14.34	14.96	15.04		671.35	669.68	683.67	694.85	-
Glass and glassware, pressed or blown	322	11.37	11.43	11.63	11.66		469.58	472.06	486.13	483.89	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	41.8	41.5	41.8	41.7		5.8	5.9	5.6	5.4	
Pressed and blown glass, nec	3229	40.7	41.0	41.8	41.3		3.3	3.6	3.6	3.3	
Products of purchased glass	323	41.4	41.3	42.0	41.9		3.5	3.6	3.4	3.5	
Cement, hydraulic	324	41.3	41.8	42.9	42.7		3.4	3.3	3.8	3.4	
Structural clay products	325	42.1	42.0	42.0	42.0		4.1	4.2	4.3	4.3	
Pottery and related products	326	40.3	40.2	39.8	40.0		2.7	2.7	3.1	3.0	
Concrete, gypsum, and plaster products	327	44.8	44.0	43.3	44.3		7.2	7.0	6.7	7.1	
Concrete block and brick	3271	46.7	46.4	45.2	45.3		9.0	8.8	8.0	8.0	
Concrete products, nec	3272	43.3	43.4	42.8	43.6		6.0	6.2	6.0	6.2	
Ready-mixed concrete	3273	44.8	43.4	42.5	44.2		7.4	6.9	6.5	7.4	
Misc. nonmetallic mineral products	329	41.8	41.9	42.5	42.6		4.3	4.6	4.7	4.9	
Abrasive products	3291	41.7	43.4	42.9	43.6		2.9	3.8	3.8	3.7	
Asbestos products	3292	43.1	42.7	42.5	43.1		5.3	5.1	3.9	4.7	
Primary metal industries	33	42.8	43.1	43.5	43.6	43.9	4.7	4.8	5.4	5.4	
Blast furnaces and basic steel products	331	43.0	43.4	44.0	43.9	45.1	4.6	4.9	5.6	5.6	
Blast furnaces and steel mills	3312	43.0	43.5	44.3	44.2	-	4.6	4.9	5.7	5.8	
Steel pipe and tubes	3317	42.8	43.1	43.6	43.1		4.9	5.5	6.1	5.8	
Iron and steel foundries	332	42.6	43.0	43.5	44.0		4.9	5.0	5.7	5.9	
Gray iron foundries	3321	42.3	43.1	43.5	44.1		5.3	5.4	6.1	6.3	
Malleable iron foundries	3322	40.5	43.2	42.6	43.0		3.1	4.5	4.4	4.8	
Steel foundries, nec	3325	42.8	42.1	43.8	43.9		4.5	4.3	5.4	5.7	
Primary nonferrous metals	333	43.5	43.4	43.8	43.1		4.4	4.5	4.7	4.5	
Primary aluminum	3334	44.9	44.2	44.2	43.8		5.0	4.8	4.9	4.7	
Nonferrous rolling and drawing	335	43.2	43.3	43.4	43.5		5.4	5.6	5.8	5.8	
Copper rolling and drawing	3351	42.8	43.2	43.2	42.7		5.5	5.5	5.9	5.3	
Aluminum sheet, plate, and foil	3353	44.4	43.8	44.5	45.3		6.7	7.2	7.3	7.8	
Nonferrous wire drawing and insulating	3357	42.6	42.5	43.1	43.5		4.7	4.7	5.2	5.5	
Nonferrous foundries	336	41.4	41.6	42.0	42.2		3.4	3.3	3.9	3.9	
Aluminum foundries	3361	41.9	42.2	42.8	42.9		3.7	3.6	4.3	4.3	
Fabricated metal products	34	41.3	41.7	41.7	41.7	42.0	3.6	3.8	4.0	4.0	
Metal cans and shipping containers	341	44.2	44.5	44.2	43.9	-	5.8	6.2	5.6	5.2	
Metal cans	3411	44.0	44.5	44.4	44.1		5.7	6.2	5.7	5.3	
Cutlery, hand tools, and hardware	342	40.9	41.1	41.9	41.4		3.0	3.0	3.9	3.4	
Hand and edge tools, and hand saws and blades ..	3423,5	41.4	42.0	41.2	40.8		2.9	3.2	3.2	2.9	
Hardware, nec	3429	40.3	40.4	42.1	41.4		3.0	2.9	4.2	3.6	
Plumbing and heating, except electric	343	40.6	42.0	40.8	40.2		2.9	4.0	3.1	3.1	
Plumbing fittings and brass goods	3432	41.3	42.5	41.2	40.6		2.8	3.8	3.4	3.1	
Heating equipment, except electric	3433	40.0	40.9	40.0	39.4		2.6	3.1	2.2	2.7	
Fabricated structural metal products	344	40.8	41.1	40.7	40.8		3.2	3.5	3.4	3.4	
Fabricated structural metal	3441	41.8	41.5	42.0	41.6		3.7	3.7	4.4	4.2	
Metal doors, sash, and trim	3442	40.4	40.8	40.0	40.4		3.2	3.6	2.9	2.9	
Fabricated plate work (boiler shops)	3443	41.5	42.1	42.1	42.0		3.4	3.6	3.8	3.9	
Sheet metal work	3444	39.7	40.0	39.8	39.6		2.9	3.1	2.9	2.9	
Architectural metal work	3446	40.6	41.3	39.4	40.6		3.0	3.9	2.9	3.5	
Screw machine products, bolts, etc	345	42.8	42.7	42.7	43.1		4.9	4.8	5.0	5.3	
Screw machine products	3451	41.0	41.2	41.6	42.1		3.5	3.6	4.2	4.6	
Bolts, nuts, rivets, and washers	3452	44.8	44.3	44.0	44.4		6.6	6.1	5.9	6.2	
Metal forgings and stampings	346	41.9	42.4	43.1	43.3		4.1	4.5	5.3	5.4	
Iron and steel forgings	3462	41.7	42.1	43.2	43.3		3.3	4.0	5.0	4.7	
Automotive stampings	3465	42.8	43.8	45.3	45.9		4.9	5.3	6.8	7.0	
Metal stampings, nec	3469	40.8	40.8	40.8	40.6		3.4	3.7	4.0	3.9	
Metal services, nec	347	40.7	41.3	40.8	40.9		3.4	3.7	3.6	3.6	
Plating and polishing	3471	40.4	40.9	40.5	40.8		3.4	3.6	3.6	3.6	
Metal coating and allied services	3479	41.2	41.9	41.3	41.0		3.5	3.9	3.7	3.6	
Ordnance and accessories, nec	348	41.0	41.5	41.5	41.5		2.9	3.0	3.3	3.3	
Ammunition, except for small arms, nec	3483	40.1	40.1	40.7	40.8		2.3	2.4	2.6	2.7	
Misc. fabricated metal products	349	41.2	41.3	41.8	41.6		3.3	3.5	3.7	3.7	
Valves and pipe fittings	3494	41.5	41.7	42.2	42.2		3.3	3.6	3.7	3.9	
Misc. fabricated wire products	3496	40.8	41.0	40.9	40.7		3.3	3.2	3.5	3.4	
Machinery, except electrical	35	42.0	42.4	42.6	42.4	42.5	3.7	4.0	4.3	4.2	
Engines and turbines	351	42.2	42.4	44.4	44.2	-	4.7	4.9	5.3	4.9	
Turbines and turbine generator sets	3511	39.5	39.3	43.1	42.7		3.4	3.6	4.7	4.7	
Internal combustion engines, nec	3519	43.1	43.4	44.8	44.6		5.1	5.3	5.5	5.0	
Farm and garden machinery	352	41.5	41.9	43.6	42.7		3.2	3.2	4.4	3.8	
Farm machinery and equipment	3523	42.0	42.5	44.2	43.8		3.6	3.8	4.8	4.6	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a	May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	\$11.88	\$11.99	\$12.13	\$12.12		\$496.58	\$497.59	\$507.03	\$505.40	
Pressed and blown glass, nec	3229	10.75	10.77	11.07	11.14		437.53	441.57	462.73	460.08	
Products of purchased glass	323	8.92	8.87	8.97	9.09		369.29	366.33	376.74	380.87	
Cement, hydraulic	324	13.41	13.15	13.18	13.15		553.83	549.67	565.42	561.51	
Structural clay products	325	8.43	8.49	8.84	8.87		354.90	356.58	371.28	372.54	
Pottery and related products	326	8.85	8.77	9.31	9.34		356.66	352.55	370.54	373.60	
Concrete, gypsum, and plaster products	327	10.07	10.11	10.10	10.15		451.14	444.84	437.33	449.65	
Concrete block and brick	3271	8.90	8.93	9.30	9.35		415.63	414.35	420.36	423.56	
Concrete products, nec	3272	8.87	8.90	9.01	9.03		384.07	386.26	385.63	393.71	
Ready-mixed concrete	3273	10.96	11.05	10.91	11.00		491.01	479.57	463.68	486.20	
Misc. nonmetallic mineral products	329	10.33	10.43	10.58	10.55		431.79	437.02	449.65	449.43	
Abrasive products	3291	9.81	9.68	10.09	10.03		409.08	420.11	432.86	437.31	
Asbestos products	3292	10.27	10.33	10.68	10.65		442.64	441.09	453.90	459.02	
Primary metal industries	33	11.92	11.91	12.11	12.14	\$12.14	510.18	513.32	526.79	529.30	\$532.95
Blast furnaces and basic steel products	331	13.73	13.75	13.94	13.96	13.88	590.39	596.75	613.36	612.84	625.99
Blast furnaces and steel mills	3312	14.43	14.45	14.66	14.70		620.49	628.58	649.44	649.74	-
Steel pipe and tubes	3317	11.16	11.12	10.87	10.97		477.65	479.27	473.93	472.81	
Iron and steel foundries	332	10.79	10.70	10.95	10.98		459.65	460.10	476.33	483.12	
Gray iron foundries	3321	11.24	11.11	11.47	11.54		475.45	478.84	498.95	508.91	
Malleable iron foundries	3322	11.58	11.82	11.96	11.75		468.99	510.62	509.50	505.25	
Steel foundries, nec	3325	10.17	10.06	10.20	10.25		435.28	423.53	446.76	449.98	
Primary nonferrous metals	333	12.87	12.88	13.17	13.09		559.85	558.99	576.85	564.18	
Primary aluminum	3334	13.29	13.34	13.56	13.53		596.72	589.63	599.35	592.61	
Nonferrous rolling and drawing	335	11.39	11.38	11.55	11.66		492.05	492.75	501.27	507.21	
Copper rolling and drawing	3351	10.60	10.56	10.78	10.80		453.68	456.19	465.70	461.16	
Aluminum sheet, plate, and foil	3353	13.92	13.87	13.81	13.97		618.05	607.51	614.55	632.84	
Nonferrous wire drawing and insulating	3357	11.29	11.31	11.76	11.90		480.95	480.68	506.86	517.65	
Nonferrous foundries	336	9.52	9.46	9.62	9.59		394.13	393.54	404.04	404.70	
Aluminum foundries	3361	9.78	9.71	9.82	9.77		409.78	409.76	420.30	419.13	
Fabricated metal products	34	9.94	9.98	10.22	10.23	10.25	410.52	416.17	426.17	426.59	430.50
Metal cans and shipping containers	341	13.16	13.28	13.46	13.44		581.67	590.96	594.93	590.02	
Metal cans	3411	13.93	14.04	14.34	14.30		612.92	624.78	636.70	630.63	
Cutlery, hand tools, and hardware	342	9.87	9.82	10.24	10.18		403.68	403.60	429.06	421.45	
Hand and edge tools, and hand saws and blades ..	3423,5	9.16	9.18	9.29	9.31		379.22	385.56	382.75	379.85	
Hardware, nec	3429	10.21	10.11	10.74	10.60		411.46	408.44	452.15	438.84	
Plumbing and heating, except electric	343	9.15	9.21	9.24	9.26		371.49	386.82	376.99	372.25	
Plumbing fittings and brass goods	3432	8.73	8.69	8.91	8.87		360.55	369.33	367.09	360.12	
Heating equipment, except electric	3433	9.10	9.16	8.94	9.04		364.00	374.64	357.60	356.18	
Fabricated structural metal products	344	9.23	9.27	9.46	9.50		376.58	381.00	385.02	387.60	
Fabricated structural metal	3441	9.79	9.88	10.11	10.19		409.22	410.02	424.62	423.90	
Metal doors, sash, and trim	3442	7.66	7.64	8.03	8.03		309.46	311.71	321.20	324.41	
Fabricated plate work (boiler shops)	3443	10.15	10.25	10.23	10.27		421.23	431.53	430.68	431.34	
Sheet metal work	3444	9.61	9.66	9.76	9.83		381.52	386.40	388.45	389.27	
Architectural metal work	3446	8.87	8.99	8.83	8.86		360.12	371.29	347.90	359.72	
Screw machine products, bolts, etc	345	9.76	9.75	9.96	10.02		417.73	416.33	425.29	431.86	
Screw machine products	3451	9.07	9.05	9.28	9.31		371.87	372.86	386.05	391.95	
Bolts, nuts, rivets, and washers	3452	10.49	10.50	10.74	10.84		469.95	465.15	472.56	481.30	
Metal forgings and stampings	346	11.66	11.78	12.30	12.26		488.55	499.47	530.13	530.86	
Iron and steel forgings	3462	12.39	12.48	12.99	12.87		516.66	525.41	561.17	557.27	
Automotive stampings	3465	13.47	13.65	14.47	14.39		576.52	597.87	655.49	660.50	
Metal stampings, nec	3469	9.19	9.26	9.47	9.42		374.95	377.81	386.38	382.45	
Metal services, nec	347	7.95	7.98	8.19	8.21		323.57	329.57	334.15	335.79	
Plating and polishing	3471	7.90	7.96	8.21	8.23		319.16	325.56	332.51	335.78	
Metal coating and allied services	3479	8.04	8.02	8.15	8.17		331.25	336.04	336.60	334.97	
Ordnance and accessories, nec	348	10.86	10.97	11.25	11.25		445.26	455.26	466.88	466.88	
Ammunition, except for small arms, nec	3483	10.44	10.51	10.86	10.84		418.64	421.45	442.00	442.27	
Misc. fabricated metal products	349	9.28	9.29	9.42	9.43		382.34	383.68	393.76	392.29	
Valves and pipe fittings	3494	9.87	9.96	10.23	10.22		409.61	415.33	431.71	431.28	
Misc. fabricated wire products	3496	8.43	8.39	8.35	8.37		343.94	343.99	341.52	340.66	
Machinery, except electrical	35	10.63	10.68	10.88	10.90	10.93	446.46	452.83	463.49	462.16	464.53
Engines and turbines	351	13.27	13.31	13.61	13.63		559.99	564.34	604.28	602.45	-
Turbines and turbine generator sets	3511	12.69	12.96	13.81	13.87		501.26	509.33	595.21	592.25	
Internal combustion engines, nec	3519	13.44	13.41	13.56	13.56		579.26	581.99	607.49	604.78	
Farm and garden machinery	352	9.84	9.92	9.80	9.88		408.36	415.65	427.28	421.88	
Farm machinery and equipment	3523	10.59	10.60	10.47	10.61		444.78	450.50	462.77	464.72	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	42.3	42.6	43.6	43.4		3.4	3.8	4.4	4.3	
Construction machinery	3531	42.7	43.7	44.5	44.2		3.1	3.6	4.2	3.9	
Mining machinery	3532	42.3	42.6	42.7	42.2		4.3	4.6	4.8	3.9	
Oil field machinery	3533	43.0	42.6	44.6	45.1		5.1	5.0	6.3	6.4	
Conveyors and conveying equipment	3535	42.3	42.4	42.8	42.5		3.8	3.8	4.4	4.5	
Industrial trucks and tractors	3537	40.4	39.7	41.1	40.9		2.4	2.8	3.1	2.8	
Metalworking machinery	354	42.1	42.6	43.2	42.9		4.3	4.5	5.0	5.0	
Machine tools, metal cutting types	3541	41.6	42.4	42.5	42.5		3.3	3.7	4.0	4.1	
Machine tools, metal forming types	3542	41.4	42.0	44.5	43.8		4.1	4.6	5.8	5.1	
Special dies, tools, jigs, and fixtures	3544	42.7	43.1	43.7	43.4		5.0	5.1	5.8	5.7	
Machine tool accessories	3545	41.3	41.6	42.2	41.7		3.7	3.8	4.3	4.3	
Power driven hand tools	3546	40.9	42.1	42.5	43.0		3.1	3.5	3.5	3.8	
Special industry machinery	355	41.9	42.2	42.2	42.0		3.9	4.2	4.5	4.4	
Food products machinery	3551	41.8	42.3	42.6	42.3		3.5	3.7	4.1	4.1	
Textile machinery	3552	43.6	43.7	42.5	42.2		4.5	4.6	3.9	3.6	
Printing trades machinery	3555	40.9	39.9	39.4	40.2		4.1	4.0	4.8	4.7	
General industrial machinery	356	42.1	42.4	43.0	42.9		3.5	3.9	4.6	4.5	
Pumps and pumping equipment	3561	42.6	43.2	44.0	43.5		3.5	4.0	4.5	4.3	
Ball and roller bearings	3562	43.2	43.5	44.2	44.5		4.6	5.2	6.1	6.2	
Air and gas compressors	3563	42.5	41.8	42.4	42.8		3.2	3.0	5.3	4.5	
Blowers and fans	3564	42.0	41.8	40.9	41.3		2.8	3.0	2.5	2.8	
Speed changers, drives, and gears	3566	41.8	41.0	44.4	43.7		3.5	3.4	5.7	5.3	
Power transmission equipment, nec	3568	41.0	43.6	41.7	41.5		3.5	4.6	4.7	4.6	
Office and computing machines	357	42.5	43.0	41.1	41.0		3.2	3.6	3.0	2.8	
Electronic computing equipment	3573	42.5	42.9	41.6	41.3		3.2	3.6	2.9	2.7	
Refrigeration and service machinery	358	41.6	42.3	41.8	41.8		3.3	3.8	3.5	3.6	
Refrigeration and heating equipment	3585	41.8	42.8	42.4	42.6		3.3	3.9	3.8	4.0	
Misc. machinery, except electrical	359	41.5	41.7	42.0	41.7		3.6	4.0	4.4	4.3	
Carburetors, pistons, rings, and valves	3592	41.4	42.2	43.1	43.0		3.7	4.5	5.3	5.2	
Machinery, except electrical, nec	3599	41.5	41.6	41.8	41.6		3.6	3.9	4.3	4.2	
Electrical and electronic equipment	36	40.6	41.0	40.8	40.7	41.0	2.7	3.0	3.0	3.0	
Electric distributing equipment	361	40.5	41.5	42.3	41.7		2.4	3.0	3.4	3.2	
Transformers	3612	41.2	42.5	42.2	41.1		2.5	3.1	3.5	3.0	
Switchgear and switchboard apparatus	3613	40.0	40.5	42.4	42.2		2.4	2.9	3.3	3.3	
Electrical industrial apparatus	362	40.8	41.3	41.9	41.8		2.9	3.3	3.7	3.7	
Motors and generators	3621	40.7	41.2	42.1	41.7		3.2	3.5	4.1	4.2	
Industrial controls	3622	40.3	40.7	40.9	41.0		2.0	2.6	2.4	2.3	
Household appliances	363	39.9	40.3	39.4	39.4		2.6	3.0	2.3	2.5	
Household refrigerators and freezers	3632	40.2	40.0	39.7	40.5		2.9	3.3	3.0	3.7	
Household laundry equipment	3633	40.5	40.2	39.9	40.0		2.4	3.2	1.7	2.0	
Electric housewares and fans	3634	39.9	40.3	39.6	39.3		2.5	2.6	2.6	2.5	
Electric lighting and wiring equipment	364	39.8	40.0	40.2	40.0		2.5	2.6	3.0	2.9	
Electric lamps	3641	40.0	40.0	40.4	40.3		2.7	2.7	3.1	3.0	
Current-carrying wiring devices	3643	40.0	39.8	40.2	39.5		2.6	2.6	3.0	2.7	
Noncurrent-carrying wiring devices	3644	40.6	40.6	40.4	40.4		2.7	2.6	2.4	2.3	
Residential lighting fixtures	3645	37.9	39.0	38.3	38.4		1.1	1.4	1.7	1.8	
Radio and TV receiving equipment	365	40.3	41.2	40.3	41.3		2.0	2.2	3.0	3.4	
Radio and TV receiving sets	3651	40.5	41.1	39.9	41.2		1.4	1.7	2.4	2.8	
Communication equipment	366	41.3	41.1	40.9	40.8		2.5	2.6	2.5	2.4	
Telephone and telegraph apparatus	3661	41.9	41.6	42.8	42.6		2.6	2.6	3.3	3.2	
Radio and TV communication equipment	3662	41.1	40.9	40.2	40.1		2.5	2.6	2.2	2.1	
Electronic components and accessories	367	40.8	41.0	40.4	40.4		3.0	3.3	3.1	3.2	
Electronic tubes	3671-3	41.9	41.7	42.8	41.2		2.6	2.9	2.7	4.1	
Semiconductors and related devices	3674	40.5	40.8	40.1	40.1		3.4	3.5	3.4	3.4	
Electronic components, nec	3679	41.1	41.4	40.4	40.8		3.1	3.5	3.1	3.0	
Misc. electrical equipment and supplies	369	40.5	41.9	41.8	41.8		3.1	3.6	3.7	3.7	
Storage batteries	3691	40.6	41.6	40.8	41.0		3.1	3.5	2.6	2.5	
Engine electrical equipment	3694	41.0	43.4	42.7	42.8		3.8	4.6	4.8	5.0	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	\$10.96	\$11.00	\$11.05	\$11.03		\$463.61	\$468.60	\$481.78	\$478.70	
Construction machinery	3531	12.12	12.19	12.29	12.29		517.52	532.70	546.91	543.22	
Mining machinery	3532	11.34	11.39	11.42	11.18		479.68	485.21	487.63	471.80	
Oil field machinery	3533	11.14	11.12	10.76	10.78		479.02	473.71	479.90	486.18	
Conveyors and conveying equipment	3535	9.71	9.56	9.82	9.84		410.73	405.34	420.30	418.20	
Industrial trucks and tractors	3537	9.64	9.74	9.79	9.77		389.46	386.68	402.37	399.59	
Metalworking machinery	354	11.06	11.07	11.32	11.30		465.63	471.58	489.02	484.77	
Machine tools, metal cutting types	3541	10.98	11.15	11.17	11.19		456.77	472.76	474.73	475.58	
Machine tools, metal forming types	3542	11.48	11.41	11.78	11.81		475.27	479.22	524.21	517.28	
Special dies, tools, jigs, and fixtures	3544	11.81	11.82	12.12	12.10		504.29	509.44	529.64	525.14	
Machine tool accessories	3545	9.90	9.95	10.10	10.14		408.87	413.92	426.22	422.84	
Power driven hand tools	3546	8.52	8.44	8.87	8.81		348.47	355.32	376.98	378.83	
Special industry machinery	355	10.60	10.59	11.00	11.01		444.14	446.90	464.20	462.42	
Food products machinery	3551	10.62	10.59	10.98	11.04		443.92	447.96	467.75	466.99	
Textile machinery	3552	8.75	8.80	9.15	9.10		381.50	384.56	388.88	384.02	
Printing trades machinery	3555	11.30	11.22	11.97	12.09		462.17	447.68	471.62	486.02	
General industrial machinery	356	10.30	10.37	10.57	10.58		433.63	439.69	454.51	453.88	
Pumps and pumping equipment	3561	10.98	11.04	11.18	11.15		467.75	476.93	491.92	485.03	
Ball and roller bearings	3562	10.92	11.10	11.11	11.16		471.74	482.85	491.06	496.62	
Air and gas compressors	3563	10.30	10.27	10.50	10.41		437.75	429.29	445.20	445.55	
Blowers and fans	3564	9.08	9.09	9.28	9.39		381.36	379.96	379.55	387.81	
Speed changers, drives, and gears	3566	10.14	10.13	10.53	10.53		423.85	415.33	467.53	460.16	
Power transmission equipment, nec	3568	10.52	10.54	10.59	10.55		431.32	459.54	441.60	437.83	
Office and computing machines	357	10.18	10.25	10.59	10.63		432.65	440.75	435.25	435.83	
Electronic computing equipment	3573	10.18	10.25	10.59	10.66		432.65	439.73	440.54	440.26	
Refrigeration and service machinery	358	10.24	10.40	10.57	10.62		425.98	439.92	441.83	443.92	
Refrigeration and heating equipment	3585	10.45	10.66	10.77	10.83		436.81	456.25	456.65	461.36	
Misc. machinery, except electrical	359	10.34	10.38	10.55	10.59		429.11	432.85	443.10	441.60	
Carburetors, pistons, rings, and valves	3592	12.74	12.73	12.98	13.05		527.44	537.21	559.44	561.15	
Machinery, except electrical, nec	3599	9.99	10.04	10.23	10.25		414.59	417.66	427.61	426.40	
Electrical and electronic equipment	36	9.81	9.83	10.09	10.12	\$10.13	398.29	403.03	411.67	411.88	\$415.33
Electric distributing equipment	361	9.10	9.09	9.39	9.41	-	368.55	377.24	397.20	392.40	-
Transformers	3612	8.97	8.92	9.18	9.21		369.56	379.10	387.40	378.53	
Switchgear and switchboard apparatus	3613	9.22	9.24	9.56	9.58		368.80	374.22	405.34	404.28	
Electrical industrial apparatus	362	9.76	9.80	10.03	10.07		398.21	404.74	420.26	420.93	
Motors and generators	3621	9.64	9.68	10.03	10.08		392.35	398.82	422.26	420.34	
Industrial controls	3622	9.61	9.70	9.86	9.93		387.28	394.79	403.27	407.13	
Household appliances	363	9.71	9.75	10.05	10.15		387.43	392.93	395.97	399.91	
Household refrigerators and freezers	3632	11.04	11.18	11.54	11.75		443.81	447.20	458.14	475.88	
Household laundry equipment	3633	11.50	11.63	11.85	11.87		465.75	467.53	472.82	474.80	
Electric housewares and fans	3634	7.37	7.27	7.32	7.35		294.06	292.98	289.87	288.86	
Electric lighting and wiring equipment	364	9.07	9.08	9.46	9.51		360.99	363.20	380.29	380.40	
Electric lamps	3641	10.20	10.21	10.73	10.65		408.00	408.40	433.49	429.20	
Current-carrying wiring devices	3643	8.59	8.63	9.05	9.15		343.60	343.47	363.81	361.43	
Noncurrent-carrying wiring devices	3644	9.30	9.21	9.35	9.25		377.58	373.93	377.74	373.70	
Residential lighting fixtures	3645	6.73	6.83	6.91	7.05		255.07	266.37	264.65	270.72	
Radio and TV receiving equipment	365	9.16	9.13	9.56	9.64		369.15	376.16	385.27	398.13	
Radio and TV receiving sets	3651	9.47	9.44	9.97	10.04		383.54	387.98	397.80	413.65	
Communication equipment	366	11.66	11.67	12.03	12.03		481.56	479.64	492.03	490.82	
Telephone and telegraph apparatus	3661	11.21	11.25	11.51	11.54		469.70	468.00	492.63	491.60	
Radio and TV communication equipment	3662	11.84	11.82	12.24	12.23		486.62	483.44	492.05	490.42	
Electronic components and accessories	367	8.82	8.87	9.07	9.07		359.86	363.67	366.43	366.43	
Electronic tubes	3671-3	11.01	11.12	11.26	11.24		461.32	463.70	481.93	463.09	
Semiconductors and related devices	3674	10.51	10.56	11.04	11.06		425.66	430.85	442.70	443.51	
Electronic components, nec	3679	8.05	8.10	8.14	8.16		330.86	335.34	328.86	332.93	
Misc. electrical equipment and supplies	369	10.56	10.58	10.76	10.80		427.68	443.30	449.77	451.44	
Storage batteries	3691	11.11	11.20	11.11	11.01		451.07	465.92	453.29	451.41	
Engine electrical equipment	3694	11.20	11.25	11.57	11.61		459.20	488.25	494.04	496.91	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a	May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a
Durable goods—Continued											
Transportation equipment	37	42.2	41.9	42.9	43.1	42.8	4.2	4.1	4.8	4.9	
Motor vehicles and equipment	371	42.5	42.0	44.1	44.3	44.0	4.3	4.0	5.7	5.7	
Motor vehicles and car bodies	3711	42.2	41.2	44.2	44.4	-	4.1	3.4	5.7	5.6	
Truck and bus bodies	3713	41.9	42.1	42.8	43.2		3.9	4.1	4.2	4.9	
Motor vehicle parts and accessories	3714	43.1	42.9	44.6	44.7		4.7	4.6	6.2	6.2	
Truck trailers	3715	41.1	41.5	40.2	40.3		3.4	3.7	2.4	2.8	
Aircraft and parts	372	42.4	42.5	41.7	42.1		4.7	4.9	4.2	4.4	
Aircraft	3721	42.2	42.3	41.3	41.7		4.3	4.8	3.7	4.0	
Aircraft engines and engine parts	3724	42.2	42.3	41.2	41.7		4.6	4.6	3.8	4.1	
Aircraft equipment, nec	3728	42.9	42.8	42.7	43.0		5.2	5.4	5.1	5.1	
Ship and boat building and repairing	373	40.8	40.5	40.8	40.7		2.9	2.8	3.1	3.2	
Ship building and repairing	3731	40.6	40.2	41.1	41.1		2.7	2.6	3.0	3.2	
Boat building and repairing	3732	41.1	40.9	40.2	39.9		3.4	3.2	3.1	3.1	
Railroad equipment	374	40.2	41.7	42.7	42.3		1.2	1.9	4.0	3.7	
Guided missiles, space vehicles, and parts	376	42.0	42.1	42.5	42.8		3.9	4.0	4.2	4.1	
Guided missiles and space vehicles	3761	42.1	42.1	42.4	42.7		4.0	4.0	4.2	4.2	
Miscellaneous transportation equipment	379	39.7	39.8	40.9	39.6		3.5	3.5	3.7	2.7	
Travel trailers and campers	3792	37.6	37.5	39.8	38.5		1.8	1.6	3.0	1.8	
Instruments and related products	38	41.2	41.5	41.5	41.2	41.4	2.8	2.9	3.0	2.9	
Engineering and scientific instruments	381	41.2	41.2	41.9	41.3	-	2.8	3.1	2.9	2.8	
Measuring and controlling devices	382	41.0	41.4	41.2	41.3		2.6	2.6	2.6	2.7	
Environmental controls	3822	40.3	39.6	39.1	39.1		2.7	2.5	2.3	2.2	
Process control instruments	3823	42.6	42.9	42.8	43.9		3.1	3.2	3.4	3.8	
Instruments to measure electricity	3825	39.9	40.8	40.9	40.8		2.0	2.1	2.3	2.2	
Optical instruments and lenses	383	41.4	42.0	42.8	42.9		2.7	2.9	3.1	3.0	
Medical instruments and supplies	384	40.6	40.7	41.3	40.9		2.9	2.9	3.0	2.9	
Surgical and medical instruments	3841	41.2	41.1	41.8	41.0		3.2	3.1	2.9	2.9	
Surgical appliances and supplies	3842	40.1	40.3	40.8	40.6		2.5	2.7	3.0	2.9	
Ophthalmic goods	385	40.8	40.7	39.8	40.0		2.6	2.4	3.0	2.9	
Photographic equipment and supplies	386	42.9	44.4	43.3	41.8		3.5	3.7	4.3	3.8	
Watches, clocks, and watchcases	387	41.6	42.0	38.9	39.0		2.8	3.0	1.3	1.0	
Miscellaneous manufacturing	39	39.2	39.4	39.1	39.0	39.2	2.5	2.5	2.3	2.3	
Jewelry, silverware, and plated ware	391	38.5	38.3	38.2	37.6	-	1.9	1.8	2.0	1.7	
Jewelry, precious metal	3911	37.6	37.7	37.2	36.5		1.4	1.4	1.6	1.3	
Musical instruments	393	41.0	41.6	41.6	40.6		3.1	3.4	3.0	2.7	
Toys and sporting goods	394	39.1	39.2	38.9	38.7		2.2	2.1	2.3	2.1	
Dolls, games, toys, and children's vehicles	3942.4	38.3	38.4	37.9	37.5		1.9	1.7	1.4	1.2	
Sporting and athletic goods, nec	3949	39.7	39.8	39.7	39.7		2.4	2.5	3.0	2.8	
Pens, pencils, office, and art supplies	395	40.5	40.8	39.9	40.4		2.6	2.6	2.3	2.7	
Costume jewelry and notions	396	37.2	37.6	38.1	38.3		2.9	3.3	1.6	1.9	
Costume jewelry	3961	34.8	35.3	37.0	37.3		2.5	2.7	.9	1.5	
Miscellaneous manufactures	399	39.8	40.0	39.5	39.4		2.7	2.7	2.5	2.6	
Signs and advertising displays	3993	39.8	40.0	39.8	39.5		2.5	2.6	2.7	2.6	
Nondurable goods		40.2	40.3	39.9	39.9	40.1	3.5	3.6	3.4	3.4	3.6
Food and kindred products	20	40.1	40.1	39.5	40.2	40.4	3.8	4.0	3.6	3.9	-
Meat products	201	39.4	39.8	38.9	39.9	-	3.5	3.7	3.3	4.0	
Meat packing plants	2011	41.4	40.7	40.4	41.3		4.6	4.2	3.9	4.9	
Sausages and other prepared meats	2013	40.4	41.0	39.7	41.0		3.6	3.9	3.9	4.7	
Poultry dressing plants	2016	37.8	38.8	37.4	38.3		2.9	3.4	2.5	3.0	
Dairy products	202	41.6	42.1	40.7	41.2		4.8	4.9	3.9	4.1	
Cheese, natural and processed	2022	39.7	40.2	38.7	39.7		4.0	4.0	3.2	3.5	
Fluid milk	2026	42.8	43.1	41.7	41.9		5.3	5.3	4.2	4.4	
Preserved fruits and vegetables	203	38.7	38.4	38.8	39.4		2.9	3.6	3.2	3.3	
Canned specialties	2032	37.9	38.8	39.0	39.2		1.9	2.9	4.5	4.4	
Canned fruits and vegetables	2033	39.1	36.5	38.8	40.8		3.2	3.8	3.4	3.8	
Frozen fruits and vegetables	2037	38.4	38.6	38.0	37.8		2.8	3.8	3.0	2.9	
Grain mill products	204	43.6	44.1	43.3	43.9		5.4	5.8	5.4	5.6	
Flour and other grain mill products	2041	46.3	46.5	44.8	45.8		5.6	6.5	5.3	5.8	
Prepared feeds, nec	2048	43.2	43.9	42.6	42.6		5.9	6.1	5.1	5.5	
Bakery products	205	40.0	40.0	39.6	40.6		3.9	3.8	3.6	4.1	
Bread, cake, and related products	2051	39.2	39.1	38.9	39.6		4.0	4.0	3.9	4.4	
Cookies and crackers	2052	41.9	42.3	41.4	43.3		3.5	3.3	2.7	3.5	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Durable goods—Continued											
Transportation equipment	37	\$12.85	\$12.87	\$13.28	\$13.32	\$13.38	\$542.27	\$539.25	\$569.71	\$574.09	\$572.66
Motor vehicles and equipment	371	13.43	13.47	14.09	14.10	14.18	570.78	565.74	621.37	624.63	623.92
Motor vehicles and car bodies	3711	15.12	15.19	16.05	16.12	-	638.06	625.83	709.41	715.73	-
Truck and bus bodies	3713	11.43	11.36	11.81	11.87	-	478.92	478.26	505.47	512.78	-
Motor vehicle parts and accessories	3714	12.60	12.65	13.26	13.24	-	543.06	542.69	591.40	591.83	-
Truck trailers	3715	9.36	9.40	9.25	9.23	-	384.70	390.10	371.85	371.97	-
Aircraft and parts	372	13.08	13.10	13.40	13.46	-	554.59	556.75	558.78	566.67	-
Aircraft	3721	(¹)	(¹)	(¹)	(¹)	-	-	-	-	-	-
Aircraft engines and engine parts	3724	\$13.11	\$13.16	\$13.55	\$13.66	-	553.24	556.67	558.26	569.62	-
Aircraft equipment, nec	3728	12.18	12.20	12.47	12.51	-	522.52	522.16	532.47	537.93	-
Ship and boat building and repairing	373	10.28	10.29	10.33	10.37	-	419.42	416.75	421.46	422.06	-
Ship building and repairing	3731	11.64	11.64	11.49	11.55	-	472.58	467.93	472.24	474.71	-
Boat building and repairing	3732	7.97	8.02	8.25	8.31	-	327.57	328.02	331.65	331.57	-
Railroad equipment	374	11.80	11.90	12.02	11.91	-	474.36	496.23	513.25	503.79	-
Guided missiles, space vehicles, and parts	376	12.41	12.46	13.02	13.02	-	521.22	524.57	553.35	557.26	-
Guided missiles and space vehicles	3761	(¹)	(¹)	(¹)	(¹)	-	-	-	-	-	-
Miscellaneous transportation equipment	379	\$10.61	\$10.60	\$10.34	\$10.27	-	\$421.22	\$421.88	\$422.91	\$406.69	-
Travel trailers and campers	3792	8.97	8.78	8.79	8.65	-	337.27	329.25	349.84	333.03	-
Instruments and related products	38	9.66	9.66	9.89	9.88	9.91	397.99	400.89	410.44	407.06	410.27
Engineering and scientific instruments	381	10.62	10.62	10.79	10.85	-	437.54	437.54	452.10	448.11	-
Measuring and controlling devices	382	9.48	9.53	9.71	9.65	-	388.68	394.54	400.05	398.55	-
Environmental controls	3822	8.83	8.82	9.15	9.05	-	355.85	349.27	357.77	353.86	-
Process control instruments	3823	9.43	9.40	9.46	9.39	-	401.72	403.26	404.89	412.22	-
Instruments to measure electricity	3825	9.71	9.85	9.97	9.88	-	387.43	401.88	407.77	403.10	-
Optical instruments and lenses	383	10.49	10.43	10.49	10.58	-	434.29	438.06	448.97	453.88	-
Medical instruments and supplies	384	8.64	8.66	8.83	8.87	-	350.78	352.46	364.68	362.78	-
Surgical and medical instruments	3841	8.72	8.77	9.07	9.17	-	359.26	360.45	379.13	375.97	-
Surgical appliances and supplies	3842	8.52	8.53	8.54	8.52	-	341.65	343.76	348.43	345.91	-
Ophthalmic goods	385	7.29	7.35	7.42	7.50	-	297.43	299.15	295.32	300.00	-
Photographic equipment and supplies	386	13.09	12.76	13.78	13.69	-	561.56	566.54	596.67	572.24	-
Watches, clocks, and watchcases	387	7.19	7.13	7.28	7.30	-	299.10	299.46	283.19	284.70	-
Miscellaneous manufacturing	39	7.74	7.75	7.92	7.95	7.96	303.41	305.35	309.67	310.05	312.03
Jewelry, silverware, and plated ware	391	8.27	8.27	8.56	8.62	-	318.40	316.74	326.99	324.11	-
Jewelry, precious metal	3911	8.39	8.36	8.71	8.78	-	315.46	315.17	324.01	320.47	-
Musical instruments	393	7.34	7.44	7.93	7.92	-	300.94	309.50	329.89	321.55	-
Toys and sporting goods	394	7.13	7.20	7.19	7.22	-	278.78	282.24	279.69	279.41	-
Dolls, games, toys, and children's vehicles	3942,4	7.01	7.07	7.01	7.00	-	268.48	271.49	265.68	262.50	-
Sporting and athletic goods, nec	3949	7.22	7.30	7.33	7.38	-	286.63	290.54	291.00	292.99	-
Pens, pencils, office, and art supplies	395	7.76	7.73	7.74	7.86	-	314.28	315.38	308.83	317.54	-
Costume jewelry and notions	396	6.28	6.29	6.61	6.69	-	233.62	236.50	251.84	256.23	-
Costume jewelry	3961	5.66	5.66	6.10	6.13	-	196.97	199.80	225.70	228.65	-
Miscellaneous manufactures	399	8.49	8.49	8.69	8.69	-	337.90	339.60	343.26	342.39	-
Signs and advertising displays	3993	8.87	8.86	9.04	9.08	-	353.03	354.40	359.79	358.66	-
Nondurable goods		9.14	9.13	9.37	9.37	9.40	367.43	367.94	373.86	373.86	376.94
Food and kindred products	20	8.99	8.92	9.14	9.15	9.15	360.50	357.69	361.03	367.83	369.66
Meat products	201	7.45	7.43	7.59	7.64	-	293.53	295.71	295.25	304.84	-
Meat packing plants	2011	8.34	8.31	8.45	8.53	-	345.28	338.22	341.38	352.29	-
Sausages and other prepared meats	2013	8.94	8.97	9.04	9.06	-	361.18	367.77	358.89	371.46	-
Poultry dressing plants	2016	6.14	6.14	6.30	6.35	-	232.09	238.23	235.62	243.21	-
Dairy products	202	9.62	9.54	9.77	9.81	-	400.19	401.63	397.64	404.17	-
Cheese, natural and processed	2022	8.96	8.85	9.15	9.25	-	355.71	355.77	354.11	367.23	-
Fluid milk	2026	10.10	10.10	10.17	10.19	-	432.28	435.31	424.09	426.96	-
Preserved fruits and vegetables	203	8.47	8.20	8.56	8.58	-	327.79	314.88	332.13	338.05	-
Canned specialties	2032	10.34	10.35	10.50	10.59	-	391.89	401.58	409.50	415.13	-
Canned fruits and vegetables	2033	8.52	8.23	8.67	8.61	-	333.13	300.40	336.40	351.29	-
Frozen fruits and vegetables	2037	7.76	7.52	7.73	7.86	-	297.98	290.27	293.74	297.11	-
Grain mill products	204	10.69	10.80	11.07	11.10	-	466.08	476.28	479.33	487.29	-
Flour and other grain mill products	2041	10.31	10.38	10.59	10.75	-	477.35	482.67	474.43	492.35	-
Prepared feeds, nec	2048	8.34	8.31	8.65	8.63	-	360.29	364.81	368.49	367.64	-
Bakery products	205	10.01	10.03	10.24	10.18	-	400.40	401.20	405.50	413.31	-
Bread, cake, and related products	2051	9.93	9.97	10.20	10.17	-	389.26	389.83	396.78	402.73	-
Cookies and crackers	2052	10.20	10.17	10.32	10.22	-	427.38	430.19	427.25	442.53	-

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a	May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	39.4	39.3	38.5	39.3		2.4	2.4	2.3	2.3	
Cane and beet sugar	2061-3	40.1	40.7	39.5	40.4		3.3	4.1	3.4	3.0	
Confectionery products	2065	38.5	37.9	37.3	38.2		1.9	1.7	1.9	2.0	
Fats and oils	207	41.2	41.4	42.7	42.4		4.7	5.2	4.9	4.9	
Beverages	208	41.9	41.6	41.0	41.0		4.8	4.5	4.3	4.3	
Malt beverages	2082	43.6	42.7	43.5	43.4		5.7	5.4	6.8	6.6	
Bottled and canned soft drinks	2086	42.1	42.1	40.8	40.6		5.2	4.8	3.7	3.9	
Misc. food and kindred products	209	38.9	38.5	37.4	37.6		3.9	3.8	3.2	3.3	
Tobacco manufactures	21	39.3	41.2	38.5	39.4	39.6	3.2	5.2	2.2	2.5	
Cigarettes	211	39.9	42.2	38.8	39.5	-	3.8	6.2	2.5	2.8	
Textile mill products	22	41.9	42.4	41.0	40.6	40.9	4.4	4.7	3.8	3.6	
Weaving mills, cotton	221	42.8	43.7	41.6	39.9	-	5.7	6.3	4.7	4.0	
Weaving mills, synthetics	222	42.1	42.7	41.4	41.4		4.6	5.0	4.1	4.0	
Weaving and finishing mills, wool	223	42.9	43.3	42.4	41.4		1.8	2.3	3.2	2.7	
Narrow fabric mills	224	40.1	41.3	41.3	41.0		3.0	3.6	3.3	3.0	
Knitting mills	225	40.2	40.6	39.4	39.5		3.5	3.7	2.9	2.8	
Women's hosiery, except socks	2251	39.6	39.3	38.3	37.6		3.2	3.2	2.6	2.4	
Hosiery, nec	2252	39.0	40.0	38.8	38.8		2.6	3.0	2.3	2.2	
Knit outerwear mills	2253	39.5	39.9	38.8	39.2		3.2	3.3	2.4	2.6	
Knit underwear mills	2254	39.6	40.3	37.4	38.6		2.7	2.9	1.9	1.6	
Circular knit fabric mills	2257	42.7	42.9	41.9	41.1		5.6	5.8	4.9	4.4	
Textile finishing, except wool	226	42.0	42.9	42.1	41.7		4.8	5.5	4.5	4.4	
Finishing plants, cotton	2261	42.5	42.7	42.9	41.7		4.8	4.9	4.7	4.2	
Finishing plants, synthetics	2262	41.9	43.3	42.3	42.2		4.3	5.8	4.8	4.8	
Floor covering mills	227	44.3	44.1	42.4	41.9		4.7	4.1	3.7	3.5	
Yarn and thread mills	228	42.6	43.0	40.8	40.6		5.1	5.4	4.3	4.1	
Yarn mills, except wool	2281	43.5	43.9	41.4	40.7		5.6	5.9	4.5	4.2	
Throwing and winding mills	2282	38.0	38.5	38.2	39.0		3.1	3.7	2.7	3.5	
Miscellaneous textile goods	229	42.7	42.9	42.8	43.1		4.4	4.6	4.6	4.6	
Apparel and other textile products	23	37.1	37.3	36.8	36.8	37.2	1.8	1.9	1.7	1.6	
Men's and boys' suits and coats	231	35.9	36.2	36.7	36.8	-	1.0	1.1	1.3	1.3	
Men's and boys' furnishings	232	37.4	37.9	36.6	36.6		1.5	1.7	1.4	1.4	
Men's and boys' shirts and nightwear	2321	37.6	38.2	37.0	37.0		1.5	1.7	1.3	1.2	
Men's and boys' separate trousers	2327	36.9	37.1	36.4	36.7		1.3	1.3	1.4	1.5	
Men's and boys' work clothing	2328	36.9	37.6	35.8	35.5		1.5	1.8	1.4	1.3	
Women's and misses' outerwear	233	35.8	35.7	35.9	35.7		1.5	1.6	1.6	1.5	
Women's and misses' blouses and waists	2331	35.3	36.0	35.1	35.8		1.1	1.3	1.1	1.2	
Women's and misses' dresses	2335	35.4	35.6	36.0	35.5		1.4	1.5	1.7	1.5	
Women's and misses' suits and coats	2337	35.8	36.0	35.6	36.4		2.0	2.0	1.5	1.8	
Women's and misses' outerwear, nec	2339	36.0	35.7	36.0	35.7		1.6	1.7	1.6	1.6	
Women's and children's undergarments	234	37.3	37.9	37.3	37.2		1.1	1.4	1.4	1.3	
Women's and children's underwear	2341	37.5	38.4	37.3	37.3		.9	1.4	1.2	1.1	
Brassieres and allied garments	2342	36.0	35.1	37.3	36.6		1.9	1.3	2.6	2.5	
Children's outerwear	236	37.1	38.2	35.7	36.6		1.5	2.0	1.1	1.3	
Children's dresses and blouses	2361	36.1	36.8	34.9	35.0		1.2	1.5	1.1	1.0	
Misc. apparel and accessories	238	39.0	39.0	38.1	38.4		2.5	2.2	2.0	2.3	
Misc. fabricated textile products	239	39.2	39.0	38.7	38.5		2.9	2.8	2.5	2.3	
Curtains and draperies	2391	38.4	38.5	35.7	35.9		1.8	2.0	1.1	1.2	
House furnishings, nec	2392	38.8	39.3	37.6	37.5		2.6	2.7	1.8	1.6	
Automotive and apparel trimmings	2396	41.4	39.4	41.8	41.5		5.3	4.2	5.3	4.8	
Paper and allied products	26	43.3	43.3	43.0	43.1	43.0	5.0	5.1	4.9	4.9	
Paper and pulp mills	261,2,6	45.6	45.3	45.0	45.4	-	6.7	6.3	6.4	6.3	
Paper mills, except building paper	262	45.5	45.6	45.2	45.6		6.7	6.5	6.5	6.4	
Paperboard mills	263	43.9	44.0	44.7	44.9		7.3	7.8	7.4	8.4	
Misc. converted paper products	264	41.9	41.9	41.5	41.4		3.7	3.8	3.7	3.6	
Paper coating and glazing	2641	43.9	44.4	43.1	43.2		4.2	4.6	3.9	3.8	
Envelopes	2642	41.7	41.1	40.5	40.5		3.0	2.8	3.0	2.6	
Bags, except textile bags	2643	41.3	41.8	41.5	40.9		3.6	4.0	4.1	4.1	
Paperboard containers and boxes	265	42.4	42.8	42.3	42.2		4.4	4.6	4.4	4.1	
Folding paperboard boxes	2651	42.2	42.8	41.7	41.4		4.2	4.5	4.0	3.8	
Corrugated and solid fiber boxes	2653	42.8	43.2	43.1	42.6		4.6	4.9	4.8	4.4	
Sanitary food containers	2654	41.9	42.7	42.5	43.6		4.4	4.4	4.6	4.9	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a	May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	\$9.37	\$9.37	\$9.56	\$9.48		\$369.18	\$368.24	\$368.06	\$372.56	
Cane and beet sugar	2061-3	11.01	11.08	10.99	10.96		441.50	450.96	434.11	442.78	
Confectionery products	2065	8.15	8.13	8.43	8.41		313.78	308.13	314.44	321.26	
Fats and oils	207	9.21	9.51	9.21	9.29		379.45	393.71	393.27	393.90	
Beverages	208	12.03	11.90	12.06	12.09		504.06	495.04	494.46	495.69	
Malt beverages	2082	16.70	16.78	16.55	16.84		728.12	716.51	719.93	730.86	
Bottled and canned soft drinks	2086	9.60	9.44	9.59	9.61		404.16	397.42	391.27	390.17	
Misc. food and kindred products	209	8.21	8.17	8.58	8.57		319.37	314.55	320.89	322.23	
Tobacco manufactures	21	14.60	15.85	14.98	15.26	\$15.97	573.78	653.02	576.73	601.24	\$632.41
Cigarettes	211	16.69	17.90	17.23	17.52	-	665.93	755.38	668.52	692.04	-
Textile mill products	22	7.12	7.13	7.35	7.31	7.32	298.33	302.31	301.35	296.79	299.39
Weaving mills, cotton	221	7.43	7.51	7.72	7.63	-	318.00	328.19	321.15	304.44	-
Weaving mills, synthetics	222	7.69	7.70	7.91	7.92		323.75	328.79	327.47	327.89	
Weaving and finishing mills, wool	223	7.59	7.69	7.97	7.95		325.61	332.98	338.35	329.13	
Narrow fabric mills	224	6.61	6.69	6.80	6.72		265.06	276.30	280.84	275.52	
Knitting mills	225	6.52	6.50	6.65	6.61		262.10	263.90	262.01	261.10	
Women's hosiery, except socks	2251	6.28	6.38	6.61	6.52		248.69	250.73	249.33	245.15	
Hosiery, nec	2252	6.19	6.16	6.35	6.34		241.41	246.40	246.38	245.99	
Knit outerwear mills	2253	6.48	6.41	6.38	6.33		255.96	255.76	247.54	248.14	
Knit underwear mills	2254	6.15	6.14	6.46	6.39		243.54	247.44	241.60	246.65	
Circular knit fabric mills	2257	7.19	7.17	7.48	7.41		307.01	307.59	313.41	304.55	
Textile finishing, except wool	226	7.42	7.52	7.74	7.73		311.64	322.61	325.85	322.34	
Finishing plants, cotton	2261	7.40	7.52	7.77	7.73		314.50	321.10	333.33	322.34	
Finishing plants, synthetics	2262	7.70	7.78	7.99	8.01		322.63	336.87	337.98	338.02	
Floor covering mills	227	7.57	7.41	7.68	7.65		335.35	326.78	325.63	320.54	
Yarn and thread mills	228	6.72	6.75	7.02	7.02		286.27	290.25	286.42	285.01	
Yarn mills, except wool	2281	6.72	6.73	7.00	6.99		292.32	295.45	289.80	284.49	
Throwing and winding mills	2282	6.76	6.91	7.18	7.27		256.88	266.04	274.28	283.53	
Miscellaneous textile goods	229	8.09	8.09	8.32	8.27		345.44	347.06	356.10	356.44	
Apparel and other textile products	23	5.87	5.89	6.04	6.04	6.08	217.78	219.70	222.27	222.27	226.18
Men's and boys' suits and coats	231	6.65	6.65	6.83	6.79	-	238.74	240.73	250.66	249.87	-
Men's and boys' furnishings	232	5.44	5.45	5.54	5.53		203.46	206.56	202.76	202.40	
Men's and boys' shirts and nightwear	2321	5.20	5.20	5.42	5.43		195.52	198.64	200.54	200.91	
Men's and boys' separate trousers	2327	5.37	5.36	5.40	5.37		198.15	198.86	196.56	197.08	
Men's and boys' work clothing	2328	5.51	5.56	5.55	5.55		203.32	209.06	198.69	197.03	
Women's and misses' outerwear	233	5.63	5.67	5.84	5.85		201.55	202.42	209.66	208.85	
Women's and misses' blouses and waists	2331	5.02	5.00	5.08	5.11		177.21	180.00	178.31	182.94	
Women's and misses' dresses	2335	5.95	6.04	6.10	6.16		210.63	215.02	219.60	218.68	
Women's and misses' suits and coats	2337	6.39	6.53	6.52	6.56		228.76	235.08	232.11	238.78	
Women's and misses' outerwear, nec	2339	5.46	5.48	5.76	5.73		196.56	195.64	207.36	204.56	
Women's and children's undergarments	234	5.46	5.47	5.67	5.68		203.66	207.31	211.49	211.30	
Women's and children's underwear	2341	5.27	5.31	5.50	5.49		197.63	203.90	205.15	204.78	
Brassieres and allied garments	2342	6.48	6.43	6.61	6.72		233.28	225.69	246.55	245.95	
Children's outerwear	236	5.18	5.28	5.40	5.38		192.18	201.70	192.78	196.91	
Children's dresses and blouses	2361	4.96	5.11	5.40	5.37		179.06	188.05	188.46	187.95	
Misc. apparel and accessories	238	5.63	5.67	5.88	5.88		219.57	221.13	224.03	225.79	
Misc. fabricated textile products	239	7.16	7.10	7.27	7.29		280.67	276.90	281.35	280.67	
Curtains and draperies	2391	5.75	5.82	5.93	5.96		220.80	224.07	211.70	213.96	
House furnishings, nec	2392	6.00	6.10	6.12	6.16		232.80	239.73	230.11	231.00	
Automotive and apparel trimmings	2396	10.88	10.64	11.19	11.14		450.43	419.22	467.74	462.31	
Paper and allied products	26	11.41	11.42	11.60	11.63	11.60	494.05	494.49	498.80	501.25	498.80
Paper and pulp mills	261,2,6	13.98	13.93	14.17	14.22	-	637.49	631.03	637.65	645.59	-
Paper mills, except building paper	262	14.05	14.00	14.20	14.27		639.28	638.40	641.84	650.71	
Paperboard mills	263	14.30	14.45	14.59	14.62		627.77	635.80	652.17	656.44	
Misc. converted paper products	264	9.87	9.91	10.05	10.13		413.55	415.23	417.08	419.38	
Paper coating and glazing	2641	10.98	10.93	11.27	11.30		482.02	485.29	485.74	488.16	
Envelopes	2642	9.15	9.14	9.58	9.67		381.56	375.65	387.99	391.64	
Bags, except textile bags	2643	9.08	9.24	9.27	9.41		375.00	386.23	384.71	384.87	
Paperboard containers and boxes	265	9.76	9.78	9.95	9.90		413.82	418.58	420.89	417.78	
Folding paperboard boxes	2651	10.15	10.20	10.36	10.30		428.33	436.56	432.01	426.42	
Corrugated and solid fiber boxes	2653	9.93	9.98	10.06	10.03		425.00	431.14	433.59	427.28	
Sanitary food containers	2654	9.32	9.23	9.70	9.71		390.51	394.12	412.25	423.36	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a	May 1987	June 1987	Apr. 1988	May 1988 ^a	June 1988 ^a
Nondurable goods—Continued											
Printing and publishing	27	37.8	37.6	38.0	37.5	37.7	2.9	2.7	3.0	2.8	
Newspapers	271	33.9	33.4	33.3	33.2	-	1.7	1.5	1.3	1.4	
Periodicals	272	38.3	38.0	38.0	38.1		2.7	2.9	3.0	3.1	
Books	273	38.3	37.9	39.8	39.5		3.9	3.3	3.9	3.8	
Book publishing	2731	38.4	37.9	38.7	38.7		3.7	2.9	3.2	3.2	
Book printing	2732	38.0	37.8	41.7	40.9		4.2	3.9	5.1	5.0	
Miscellaneous publishing	274	36.4	36.5	36.6	35.9		2.7	2.2	2.5	1.9	
Commercial printing	275	39.2	39.0	39.4	38.7		3.4	3.1	3.5	3.1	
Commercial printing, letterpress	2751	39.1	39.0	39.1	38.5		2.9	2.8	3.0	2.6	
Commercial printing, lithographic	2752	39.1	38.9	39.4	38.6		3.5	3.1	3.7	3.2	
Manifold business forms	276	41.0	41.8	41.1	41.3		3.2	3.6	3.5	3.8	
Blankbooks and bookbinding	278	37.9	38.6	39.3	38.6		1.9	2.4	2.8	2.7	
Printing trade services	279	38.2	38.0	38.1	38.2		3.2	3.3	3.5	3.7	
Chemicals and allied products	28	42.2	42.2	42.1	41.9	42.4	3.9	3.9	4.1	4.0	
Industrial inorganic chemicals	281	41.9	42.2	42.9	42.5	-	3.8	3.8	4.3	4.0	
Industrial inorganic chemicals, nec	2819	42.5	42.7	43.2	42.6		3.8	3.8	4.2	3.9	
Plastics materials and synthetics	282	42.7	42.7	43.1	43.2		4.2	4.3	4.5	4.7	
Plastics materials and resins	2821	43.6	43.5	43.6	43.5		4.5	4.4	4.7	4.8	
Organic fibers, noncellulosic	2824	42.0	42.1	42.6	42.9		3.9	4.0	4.1	4.5	
Drugs	283	41.3	41.8	41.1	40.7		2.7	3.1	2.9	2.9	
Pharmaceutical preparations	2834	41.1	41.8	40.9	40.6		2.8	3.1	2.9	3.0	
Soap, cleaners, and toilet goods	284	41.0	41.2	39.8	39.4		3.0	3.3	3.2	3.1	
Soap and other detergents	2841	43.3	43.6	43.1	42.1		4.8	5.1	5.3	4.4	
Polishing, sanitation, and finishing preparations	2842,3	40.6	41.7	40.8	41.3		2.5	3.3	2.9	3.1	
Toilet preparations	2844	39.8	39.5	37.4	37.1		2.2	2.2	2.3	2.3	
Paints and allied products	285	42.4	42.0	42.3	42.1		4.2	4.0	4.2	4.0	
Industrial organic chemicals	286	44.3	43.7	44.0	43.7		5.5	5.1	5.2	5.1	
Cyclic crudes and intermediates	2865	43.4	43.2	42.6	41.7		5.7	5.6	5.0	4.4	
Gum, wood, and industrial organic chemicals, nec	2861,9	44.5	43.8	44.3	44.2		5.4	4.9	5.3	5.3	
Agricultural chemicals	287	43.2	42.7	43.5	43.5		4.9	4.3	5.4	5.3	
Miscellaneous chemical products	289	41.1	41.4	41.9	42.0		3.2	3.2	3.7	3.6	
Petroleum and coal products	29	44.0	43.6	44.4	43.8	44.3	5.0	4.8	5.6	5.1	
Petroleum refining	291	43.7	43.2	44.6	43.4	-	4.3	4.0	5.3	4.5	
Paving and roofing materials	295	46.2	46.0	44.7	46.6		8.6	8.5	7.8	8.6	
Rubber and misc. plastics products	30	41.6	41.8	41.8	41.6	41.7	3.9	4.1	4.2	4.1	
Tires and inner tubes	301	43.4	43.7	45.2	45.6	-	5.0	5.4	6.3	6.2	
Rubber and plastics footwear	302	41.7	43.0	39.1	39.7		2.0	3.3	1.8	1.6	
Reclaimed rubber, and rubber and plastics hose and belting	303,4	41.1	42.3	44.3	43.7		3.5	3.5	4.7	4.2	
Fabricated rubber products, nec	306	41.6	41.7	41.8	41.6		3.6	3.7	3.8	3.8	
Miscellaneous plastics products	307	41.3	41.5	41.3	41.1		3.9	4.0	4.1	4.0	
Leather and leather products	31	38.7	39.5	37.0	37.7	37.9	2.2	2.6	1.9	1.9	
Leather tanning and finishing	311	41.6	42.1	41.3	41.2	-	4.3	4.3	4.5	4.0	
Footwear, except rubber	314	38.6	39.7	36.4	37.3		2.1	2.7	1.5	1.6	
Men's footwear, except athletic	3143	38.4	39.3	37.1	37.4		1.7	2.1	.9	.9	
Women's footwear, except athletic	3144	39.4	40.2	35.0	37.1		2.8	3.4	1.9	2.1	
Luggage	316	39.2	40.0	39.7	39.8		1.6	2.2	3.2	2.8	
Handbags and personal leather goods	317	36.8	37.0	35.7	35.6		2.2	2.3	2.4	2.3	
Transportation and public utilities		39.1	39.2	39.2	39.0	39.5					
Railroad transportation:											
Class I railroads ^a	4011	43.9	43.6	44.4	44.4						
Local and interurban passenger transit	41	34.0	33.9	33.7	34.1						
Local and suburban transportation	411	38.5	38.1	38.2	38.3						
Intercity highway transportation	413	38.8	38.6	39.3	39.4						
Trucking and warehousing	42	38.4	38.8	37.9	38.0						
Trucking and trucking terminals	421,3	38.5	38.8	37.9	38.0						
Public warehousing	422	38.0	38.7	38.3	38.4						
Pipe lines, except natural gas	46	42.2	41.1	42.6	41.3						

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				
		May 1987	June 1987	Apr. 1988	May 1988 ²	June 1988 ²	May 1987	June 1987	Apr. 1988	May 1988 ²	June 1988 ²
Nondurable goods—Continued											
Printing and publishing	27	\$10.19	\$10.19	\$10.40	\$10.43	\$10.43	\$385.18	\$383.14	\$395.20	\$391.13	\$393.21
Newspapers	271	10.18	10.21	10.44	10.45	-	345.10	341.01	347.65	346.94	-
Periodicals	272	10.56	10.59	10.76	10.82	-	404.45	402.42	408.88	412.24	-
Books	273	9.19	9.34	9.24	9.29	-	351.98	353.99	367.75	366.96	-
Book publishing	2731	8.81	8.92	8.84	8.94	-	338.30	338.07	342.11	345.98	-
Book printing	2732	9.83	10.05	9.86	9.85	-	373.54	379.89	411.16	402.87	-
Miscellaneous publishing	274	9.24	9.29	9.72	9.73	-	336.34	339.09	355.75	349.31	-
Commercial printing	275	10.49	10.43	10.66	10.71	-	411.21	406.77	420.00	414.48	-
Commercial printing, letterpress	2751	10.15	10.07	10.29	10.28	-	396.87	392.73	402.34	395.78	-
Commercial printing, lithographic	2752	10.59	10.56	10.79	10.85	-	414.07	410.78	425.13	418.81	-
Manifold business forms	276	10.69	10.70	10.89	10.93	-	438.29	447.26	447.58	451.41	-
Blankbooks and bookbinding	278	8.09	8.09	8.38	8.30	-	306.61	312.27	329.33	320.38	-
Printing trade services	279	12.27	12.43	12.83	12.83	-	468.71	472.34	488.82	490.11	-
Chemicals and allied products	28	12.32	12.28	12.57	12.57	12.62	519.90	518.22	529.20	526.68	535.09
Industrial inorganic chemicals	281	13.45	13.49	13.76	13.71	-	563.56	569.28	590.30	582.68	-
Industrial inorganic chemicals, nec	2819	13.55	13.59	13.76	13.74	-	575.88	580.29	594.43	585.32	-
Plastics materials and synthetics	282	12.57	12.57	12.86	12.97	-	536.74	536.74	554.27	560.30	-
Plastics materials and resins	2821	13.60	13.50	13.74	13.82	-	592.96	587.25	599.06	601.17	-
Organic fibers, noncellulosic	2824	11.99	11.99	12.29	12.44	-	503.58	504.78	523.55	533.68	-
Drugs	283	11.58	11.58	11.93	12.02	-	478.25	484.04	490.32	489.21	-
Pharmaceutical preparations	2834	11.25	11.23	11.65	11.69	-	462.38	469.41	476.49	474.61	-
Soap, cleaners, and toilet goods	284	10.92	10.77	11.01	10.97	-	447.72	443.72	438.20	432.22	-
Soap and other detergents	2841	14.04	13.92	14.55	14.45	-	607.93	606.91	627.11	608.35	-
Polishing, sanitation, and finishing preparations	2842,3	10.02	9.96	10.20	10.23	-	406.81	415.33	416.16	422.50	-
Toilet preparations	2844	9.28	9.15	9.20	9.26	-	369.34	361.43	344.08	343.55	-
Paints and allied products	285	10.87	10.77	11.18	11.19	-	460.89	452.34	472.91	471.10	-
Industrial organic chemicals	286	14.82	14.83	15.06	14.97	-	656.53	648.07	662.64	654.19	-
Cyclic crudes and intermediates	2865	14.70	14.72	14.90	14.78	-	637.98	635.90	634.74	616.33	-
Gum, wood, and industrial organic chemicals, nec	2861,9	14.85	14.86	15.10	15.02	-	660.83	650.87	668.93	663.88	-
Agricultural chemicals	287	11.58	11.72	11.84	11.86	-	500.26	500.44	515.04	515.91	-
Miscellaneous chemical products	289	11.30	11.22	11.49	11.37	-	464.43	464.51	481.43	477.54	-
Petroleum and coal products	29	14.54	14.44	15.00	14.90	15.07	639.76	629.58	666.00	652.62	667.60
Petroleum refining	291	15.74	15.65	16.18	16.09	-	687.84	676.08	721.63	698.31	-
Paving and roofing materials	295	11.46	11.40	11.52	11.65	-	529.45	524.40	514.94	542.89	-
Rubber and misc. plastics products	30	8.86	8.89	9.04	9.05	9.09	368.58	371.60	377.87	376.48	379.05
Tires and inner tubes	301	13.93	14.03	14.22	14.24	-	604.56	613.11	642.74	649.34	-
Rubber and plastics footwear	302	6.01	6.07	6.32	6.29	-	250.62	261.01	247.11	249.71	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	8.91	8.96	9.22	9.23	-	366.20	379.01	408.45	403.35	-
Fabricated rubber products, nec	306	8.59	8.61	8.77	8.77	-	357.34	359.04	366.59	364.83	-
Miscellaneous plastics products	307	8.26	8.29	8.43	8.44	-	341.14	344.04	348.16	346.88	-
Leather and leather products	31	6.05	6.09	6.29	6.26	6.27	234.14	240.56	232.73	236.00	237.63
Leather tanning and finishing	311	8.11	8.11	8.50	8.49	-	337.38	341.43	351.05	349.79	-
Footwear, except rubber	314	5.70	5.71	5.98	5.94	-	220.02	226.69	217.67	221.56	-
Men's footwear, except athletic	3143	6.06	6.09	6.31	6.25	-	232.70	239.34	234.10	233.75	-
Women's footwear, except athletic	3144	5.42	5.39	5.70	5.67	-	213.55	216.68	199.50	210.36	-
Luggage	316	6.41	6.39	6.44	6.25	-	251.27	255.60	255.67	248.75	-
Handbags and personal leather goods	317	5.84	5.93	5.88	6.09	-	214.91	219.41	209.92	216.80	-
Transportation and public utilities		11.93	11.94	12.27	12.25	12.20	466.46	468.05	480.98	477.75	481.90
Railroad transportation:											
Class I railroads ³	4011	14.28	14.14	15.00	14.90	-	626.89	616.50	666.00	661.56	-
Local and interurban passenger transit	41	8.13	8.21	8.39	8.35	-	276.42	278.32	282.74	284.74	-
Local and suburban transportation	411	8.76	8.81	8.97	8.93	-	337.26	335.66	342.65	342.02	-
Intercity highway transportation	413	11.44	11.52	11.21	11.16	-	443.87	444.67	440.55	439.70	-
Trucking and warehousing	42	10.84	10.77	10.91	10.96	-	416.26	417.88	413.49	416.48	-
Trucking and trucking terminals	421,3	11.01	10.93	11.07	11.12	-	423.89	424.08	419.55	422.56	-
Public warehousing	422	8.47	8.52	8.78	8.87	-	321.86	329.72	336.27	340.61	-
Pipe lines, except natural gas	46	15.41	15.24	15.78	15.76	-	650.30	626.36	672.23	650.89	-

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Transportation and public utilities—Continued											
Communication	48	39.6	39.8	39.7	39.6						
Telephone communication	481	40.7	41.1	41.2	41.1						
Radio and television broadcasting	483	36.3	36.3	35.8	35.6						
Electric, gas, and sanitary services	49	41.4	41.5	41.5	41.1						
Electric services	491	41.1	41.2	41.5	41.2						
Gas production and distribution	492	40.5	40.4	40.9	40.4						
Combination utility services	493	42.4	42.4	41.6	41.2						
Sanitary services	495	43.0	43.4	42.5	42.8						
Wholesale trade		38.3	38.3	38.2	38.0	38.2					
Durable goods	50	38.6	38.8	38.7	38.4						
Motor vehicles and automotive equipment	501	38.2	38.3	38.4	38.0						
Furniture and home furnishings	502	36.8	37.2	37.9	37.2						
Lumber and construction materials	503	39.4	39.4	39.5	39.6						
Sporting goods, toys, and hobby goods	504	36.3	36.2	36.0	35.4						
Metals and minerals, except petroleum	505	40.4	40.7	40.6	40.2						
Electrical goods	506	38.4	38.6	37.9	37.7						
Hardware, plumbing, and heating equipment	507	38.4	38.6	38.6	38.2						
Machinery, equipment, and supplies	508	39.0	39.2	39.1	38.7						
Miscellaneous durable goods	509	37.9	37.8	38.0	37.7						
Nondurable goods	51	37.7	37.6	37.5	37.4						
Paper and paper products	511	37.0	36.9	37.0	36.5						
Drugs, proprietaries, and sundries	512	36.8	37.1	36.8	36.6						
Apparel, piece goods, and notions	513	36.5	36.6	36.9	36.5						
Groceries and related products	514	38.1	38.1	37.6	37.8						
Chemicals and allied products	516	39.2	39.3	39.6	39.6						
Petroleum and petroleum products	517	39.2	39.2	38.5	38.4						
Beer, wine, and distilled beverages	518	35.9	36.1	35.8	35.6						
Miscellaneous nondurable goods	519	37.7	37.1	37.4	37.4						
Retail trade		29.2	29.6	28.9	28.9	29.5					
Building materials and garden supplies	52	37.0	37.2	36.4	36.6						
Lumber and other building materials	521	38.6	38.9	38.2	38.4						
Hardware stores	525	33.1	33.6	33.1	32.9						
General merchandise stores	53	28.4	28.6	27.3	27.3						
Department stores	531	28.2	28.3	27.0	27.0						
Variety stores	533	29.1	29.5	28.8	29.0						
Misc. general merchandise stores	539	29.8	31.2	29.1	28.7						
Food stores	54	29.8	30.6	29.8	29.9						
Grocery stores	541	30.1	30.9	29.9	30.1						
Retail bakeries	546	27.1	27.7	28.3	28.3						
Automotive dealers and service stations	55	36.6	36.7	36.6	36.4						
New and used car dealers	551,2	37.2	37.5	37.5	37.2						
Auto and home supply stores	553	39.6	39.5	38.6	38.3						
Gasoline service stations	554	34.1	34.2	34.3	34.2						
Apparel and accessory stores	56	26.5	27.0	26.6	26.4						
Men's and boys' clothing and furnishings	561	29.7	30.2	28.1	28.4						
Women's ready-to-wear stores	562	25.6	25.7	25.0	24.7						
Family clothing stores	565	26.4	27.0	26.7	26.2						
Shoe stores	566	26.8	28.1	27.8	27.7						
Furniture and home furnishings stores	57	32.8	33.0	32.8	32.7						
Furniture and home furnishings stores	571	32.8	33.1	33.4	33.4						
Household appliance stores	572	33.6	34.1	33.5	33.2						
Radio, television, and music stores	573	32.4	32.5	31.4	31.3						
Eating and drinking places ⁴	58	25.9	26.2	25.7	25.7						

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Transportation and public utilities—Continued											
Communication	48	\$12.31	\$12.35	\$12.62	\$12.62		\$487.48	\$491.53	\$501.01	\$499.75	
Telephone communication	481	13.04	13.07	13.33	13.31		530.73	537.18	549.20	547.04	
Radio and television broadcasting	483	10.75	10.82	11.33	11.35		390.23	392.77	405.61	404.06	
Electric, gas, and sanitary services	49	13.70	13.65	14.17	14.21		567.18	566.48	588.06	584.03	
Electric services	491	13.81	13.78	14.31	14.38		567.59	567.74	593.87	592.46	
Gas production and distribution	492	12.98	12.84	13.19	13.32		525.69	518.74	539.47	538.13	
Combination utility services	493	15.96	15.99	16.73	16.64		676.70	677.98	695.97	685.57	
Sanitary services	495	10.08	9.99	10.68	10.80		433.44	433.57	453.90	462.24	
Wholesale trade		9.56	9.54	9.88	9.87	\$9.85	366.15	365.38	377.42	375.06	\$376.27
Durable goods	50	9.69	9.69	10.10	10.10		374.03	375.97	390.87	387.84	
Motor vehicles and automotive equipment	501	8.63	8.70	9.12	9.12		329.67	333.21	350.21	346.56	
Furniture and home furnishings	502	8.96	8.90	9.36	9.49		329.73	331.08	354.74	353.03	
Lumber and construction materials	503	9.20	9.13	9.53	9.58		362.48	359.72	376.44	379.37	
Sporting goods, toys, and hobby goods	504	9.68	9.71	9.80	9.80		351.38	351.50	352.80	346.92	
Metals and minerals, except petroleum	505	10.34	10.37	10.66	10.59		417.74	422.06	432.80	425.72	
Electrical goods	506	10.03	9.97	10.51	10.53		385.15	384.84	398.33	396.98	
Hardware, plumbing, and heating equipment	507	9.18	9.20	9.46	9.54		352.51	355.12	365.16	364.43	
Machinery, equipment, and supplies	508	10.32	10.33	10.79	10.76		402.48	404.94	421.89	416.41	
Miscellaneous durable goods	509	7.77	7.81	7.98	7.91		294.48	295.22	303.24	298.21	
Nondurable goods	51	9.39	9.34	9.54	9.54		354.00	351.18	357.75	356.80	
Paper and paper products	511	10.13	9.97	10.32	10.29		374.81	367.89	381.84	375.59	
Drugs, proprietaries, and sundries	512	11.03	10.87	11.19	11.07		405.90	403.28	411.79	405.16	
Apparel, piece goods, and notions	513	9.22	9.11	9.48	9.48		336.53	333.43	349.81	346.02	
Groceries and related products	514	9.48	9.46	9.69	9.70		361.19	360.43	364.34	366.66	
Chemicals and allied products	516	12.04	12.02	12.26	12.18		471.97	472.39	485.50	482.33	
Petroleum and petroleum products	517	9.66	9.56	9.64	9.71		378.67	374.75	371.14	372.86	
Beer, wine, and distilled beverages	518	11.11	11.03	11.06	11.12		398.85	398.18	395.95	395.87	
Miscellaneous nondurable goods	519	7.69	7.69	7.78	7.76		289.91	285.30	290.97	290.22	
Retail trade		6.09	6.08	6.26	6.27	6.27	177.83	179.97	180.91	181.20	184.97
Building materials and garden supplies	52	6.93	6.93	7.25	7.27		256.41	257.80	263.90	266.08	
Lumber and other building materials	521	7.28	7.29	7.67	7.71		281.01	283.58	292.99	296.06	
Hardware stores	525	5.93	5.90	6.17	6.17		196.28	198.24	204.23	202.99	
General merchandise stores	53	6.45	6.45	6.52	6.51		183.18	184.47	178.00	177.72	
Department stores	531	6.75	6.77	6.82	6.80		190.35	191.59	184.14	183.60	
Variety stores	533	4.82	4.82	4.93	4.96		140.26	142.19	141.98	143.84	
Misc. general merchandise stores	539	5.00	4.95	5.30	5.32		149.00	154.44	154.23	152.68	
Food stores	54	6.96	6.90	6.98	7.00		207.41	211.14	208.00	209.30	
Grocery stores	541	7.10	7.03	7.09	7.11		213.71	217.23	211.99	214.01	
Retail bakeries	546	5.61	5.61	5.92	5.95		152.03	155.40	167.54	168.39	
Automotive dealers and service stations	55	7.84	7.85	8.22	8.29		286.94	288.10	300.85	301.76	
New and used car dealers	551,2	9.57	9.64	10.03	10.16		356.00	361.50	376.13	377.95	
Auto and home supply stores	553	6.70	6.67	7.09	7.07		265.32	263.47	273.67	270.78	
Gasoline service stations	554	5.52	5.49	5.74	5.77		188.23	187.76	196.88	197.33	
Apparel and accessory stores	56	5.57	5.58	5.74	5.78		147.61	150.66	152.68	152.59	
Men's and boys' clothing and furnishings	561	6.71	6.71	6.99	7.13		199.29	202.64	196.42	202.49	
Women's ready-to-wear stores	562	5.20	5.19	5.44	5.46		133.12	133.38	136.00	134.86	
Family clothing stores	565	5.51	5.60	5.55	5.56		145.46	151.20	148.19	145.67	
Shoe stores	566	5.60	5.58	5.86	5.91		150.08	156.80	162.91	163.71	
Furniture and home furnishings stores	57	7.45	7.44	7.79	7.81		244.36	245.52	255.51	255.39	
Furniture and home furnishings stores	571	7.58	7.57	7.91	7.92		248.62	250.57	264.19	264.53	
Household appliance stores	572	7.32	7.39	7.71	7.76		245.95	252.00	258.29	257.63	
Radio, television, and music stores	573	7.27	7.23	7.61	7.64		235.55	234.98	238.95	239.13	
Eating and drinking places ⁴	58	4.39	4.39	4.51	4.53		113.70	115.02	115.91	116.42	

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Retail trade—Continued											
Miscellaneous retail	59	30.4	30.5	29.8	29.9						
Drug stores and proprietary stores	591	28.1	28.6	27.4	27.3						
Miscellaneous shopping goods stores	594	28.4	29.0	28.5	28.2						
Nonstore retailers	596	33.2	33.1	32.1	32.0						
Fuel and ice dealers	598	37.7	37.9	38.3	37.9						
Retail stores, nec	599	33.5	32.1	31.5	32.7						
Finance, insurance, and real estate⁵		36.3	36.4	36.2	35.7	35.8					
Banking	60	36.2	36.2	36.3	35.4						
Commercial and stock savings banks	602	36.2	36.2	36.3	35.3						
Credit agencies other than banks	61	36.7	37.0	36.6	36.1						
Savings and loan associations	612	36.2	36.5	36.1	35.7						
Personal credit institutions	614	36.5	36.7	36.8	36.0						
Insurance carriers	63	37.4	37.4	37.3	37.2						
Life insurance	631	37.0	36.9	37.0	36.7						
Medical service and health insurance	632	38.1	37.8	38.1	37.5						
Fire, marine, and casualty insurance	633	37.2	37.4	37.1	37.2						
Services		32.4	32.7	32.6	32.4	32.7					
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	30.8	31.0	31.2	31.4						
Personal services:											
Laundry, cleaning, and garment services	721	34.7	34.4	34.4	34.6						
Beauty shops ⁴	723	29.7	29.7	30.1	30.2						
Business services	73	33.5	33.8	33.7	33.8						
Advertising	731	36.5	36.7	36.9	36.4						
Services to buildings	734	28.7	29.2	29.1	29.2						
Computer and data processing services	737	37.3	37.7	37.9	37.7						
Auto repair, services, and garages	75	36.8	36.8	36.4	36.5						
Automotive repair shops	753	38.3	38.3	38.0	37.6						
Miscellaneous repair services	76	37.6	38.0	38.0	37.9						
Motion pictures	78	27.8	29.1	28.7	27.7						
Motion picture production and services	781	36.2	37.3	37.6	36.9						
Amusement and recreation services	79	28.2	29.0	27.7	27.8						
Health services	80	32.2	32.4	32.3	32.2						
Offices of physicians	801	30.8	30.8	31.2	30.9						
Offices of dentists	802	28.0	28.1	28.4	27.8						
Nursing and personal care facilities	805	31.3	31.6	31.4	31.5						
Hospitals	806	34.0	34.3	33.8	33.8						
Legal services	81	34.5	34.9	34.9	34.3						
Miscellaneous services	89	38.4	38.5	39.3	37.6						
Engineering and architectural services	891	39.5	39.7	39.4	39.0						
Accounting, auditing, and bookkeeping	893	37.1	37.0	40.3	36.1						

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				
		May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Retail trade—Continued											
Miscellaneous retail	59	\$6.30	\$6.30	\$6.55	\$6.55		\$191.52	\$192.15	\$195.19	\$195.85	
Drug stores and proprietary stores	591	5.88	5.84	6.16	6.23		165.23	167.02	168.78	170.08	
Miscellaneous shopping goods stores	594	5.89	5.87	6.20	6.19		167.28	170.23	176.70	174.56	
Nonstore retailers	596	7.24	7.21	7.32	7.37		240.37	238.65	234.97	235.84	
Fuel and ice dealers	598	8.91	8.87	9.14	9.07		335.91	336.17	350.06	343.75	
Retail stores, nec	599	6.40	6.50	6.62	6.55		214.40	208.65	208.53	214.19	
Finance, insurance, and real estate⁵		8.72	8.63	9.03	9.09	\$8.95	316.54	314.13	326.89	324.51	\$320.41
Banking	60	7.49	7.45	7.80	7.87		271.14	269.69	283.14	278.60	
Commercial and stock savings banks	602	7.24	7.23	7.52	7.60		262.09	261.73	272.98	268.28	
Credit agencies other than banks	61	7.85	7.89	8.14	8.24		288.10	291.93	297.92	297.46	
Savings and loan associations	612	7.34	7.37	7.63	7.72		265.71	269.01	275.44	275.60	
Personal credit institutions	614	7.37	7.41	7.70	7.75		269.01	271.95	283.36	279.00	
Insurance carriers	63	9.54	9.41	10.08	10.13		356.80	351.93	375.98	376.84	
Life insurance	631	9.13	8.72	9.56	9.59		337.81	321.77	353.72	351.95	
Medical service and health insurance	632	9.35	9.38	9.75	9.86		356.24	354.56	371.48	369.75	
Fire, marine, and casualty insurance	633	9.89	9.88	10.60	10.65		367.91	369.51	393.26	396.18	
Services		8.40	8.37	8.82	8.84	8.78	272.16	273.70	287.53	286.42	287.11
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	6.11	6.10	6.41	6.42		188.19	189.10	199.99	201.59	
Personal services:											
Laundry, cleaning, and garment services	721	6.13	6.17	6.30	6.30		212.71	212.25	216.72	217.98	
Beauty shops ⁴	723	6.41	6.54	6.74	6.83		190.38	194.24	202.87	206.27	
Business services	73	8.65	8.69	9.06	9.08		289.78	293.72	305.32	306.90	
Advertising	731	11.72	11.79	12.31	12.47		427.78	432.69	454.24	453.91	
Services to buildings	734	6.66	6.71	6.76	6.85		191.14	195.93	196.72	200.02	
Computer and data processing services	737	12.01	12.13	12.55	12.73		447.97	457.30	475.65	479.92	
Auto repair, services, and garages	75	7.74	7.79	8.09	8.10		284.83	286.67	294.48	295.65	
Automotive repair shops	753	8.39	8.39	8.76	8.77		321.34	321.34	332.88	329.75	
Miscellaneous repair services	76	9.06	9.06	9.54	9.57		343.37	346.09	362.52	362.70	
Motion pictures	78	11.74	10.95	11.44	11.48		326.37	318.65	328.33	318.00	
Motion picture production and services	781	15.67	15.52	15.49	15.78		567.25	578.90	582.42	582.28	
Amusement and recreation services	79	7.04	6.48	7.57	7.43		198.53	187.92	209.69	206.55	
Health services	80	8.61	8.61	9.12	9.15		277.24	278.96	294.58	294.63	
Offices of physicians	801	8.33	8.32	8.75	8.78		256.56	256.26	273.00	271.30	
Offices of dentists	802	8.48	8.42	8.83	8.91		237.44	236.60	250.77	247.70	
Nursing and personal care facilities	805	5.95	5.96	6.23	6.25		186.24	188.34	195.62	196.88	
Hospitals	806	9.73	9.73	10.36	10.39		330.82	333.74	350.17	351.18	
Legal services	81	11.77	11.88	12.46	12.72		406.07	414.61	434.85	436.30	
Miscellaneous services	89	11.99	11.95	12.28	12.58		460.42	460.08	482.60	473.01	
Engineering and architectural services	891	12.89	12.79	13.27	13.32		509.16	507.76	522.84	519.48	
Accounting, auditing, and bookkeeping	893	10.15	10.24	10.44	10.92		376.57	378.88	420.73	394.21	

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 aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing.

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 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 forward are subject to revision.

A Note on Average Hourly Earnings in Aircraft (SIC 3721) and Guided Missiles and Space Vehicles (SIC 3761) Manufacturing

For many years, the Bureau of Labor Statistics' average hourly earnings series for production workers in aircraft manufacturing (SIC 3721) and guided missiles and space vehicles manufacturing (SIC 3761) have been used to escalate labor costs in contracts between aerospace companies and their customers. Although the Bureau's series by definition take account of traditional wage rate changes, they do not capture "lump-sum payments to workers in lieu of general wage increases" which were negotiated in aerospace manufacturers' collective bargaining agreements beginning in late 1983.

Because of special circumstances in the aerospace industry, BLS has calculated average hourly earnings series for SIC 3721 and SIC 3761 which include lump-sum payments. These series, beginning in October 1983, the effective date of the first aerospace bargain-

ing agreement using lump-sum payments, were published in the June 1988 issue of *Employment and Earnings*. Current and year earlier data are presented in table C-2a along with the average hourly earnings series produced as part of the Current Employment Statistics program. An explanation of the methodology used to derive these series appears in the Explanatory Notes of this publication.

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 is conducting 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 (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	Apr. 1987	May 1987	Apr. 1988	May 1988 ^p	Apr. 1987	May 1987	Apr. 1988	May 1988 ^p
Average hourly earnings, excluding lump-sum payments	\$13.62	\$13.72	\$13.96	\$14.01	\$12.67	\$12.76	\$13.39	\$13.41
Average hourly earnings, including lump-sum payments	14.31	14.37	14.43	14.49	12.97	13.06	13.62	13.65

^p = preliminary.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	May 1987	June 1987	Apr. 1988	May 1988 ²	June 1988 ²
Manufacturing	\$9.45	\$9.44	\$9.68	\$9.69	\$9.70
Durable goods	9.95	9.95	10.17	10.19	10.19
Lumber and wood products	7.99	8.03	8.15	8.16	(3)
Furniture and fixtures	7.39	7.41	7.58	7.63	(3)
Stone, clay, and glass products	9.66	9.69	9.81	9.83	(3)
Primary metal industries	11.30	11.28	11.41	11.42	(3)
Fabricated metal products	9.52	9.54	9.75	9.76	(3)
Machinery, except electrical	10.18	10.20	10.36	10.39	(3)
Electrical and electronic equipment	9.49	9.48	9.73	9.76	(3)
Transportation equipment	12.24	12.28	12.58	12.61	(3)
Instruments and related products	9.34	9.33	9.55	9.54	(3)
Miscellaneous manufacturing	7.50	7.51	7.69	7.73	(3)
Nondurable goods	8.76	8.74	8.98	8.99	\$9.00
Food and kindred products	8.58	8.50	8.75	8.73	(3)
Tobacco manufactures	14.03	14.91	14.56	14.79	(3)
Textile mill products	6.76	6.76	7.02	7.00	(3)
Apparel and other textile products	5.74	5.74	5.91	5.91	(3)
Paper and allied products	10.78	10.79	10.97	11.01	(3)
Printing and publishing	9.82	9.84	10.01	10.06	(3)
Chemicals and allied products	11.78	11.74	11.99	12.00	(3)
Petroleum and coal products	13.75	13.69	14.11	14.08	(3)
Rubber and misc. plastics products	8.46	8.48	8.60	8.62	(3)
Leather and leather products	5.88	5.89	6.13	6.11	(3)

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

² Not available.

³ = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 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				
	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p	May 1987	June 1987	Apr. 1988	May 1988 ^p	June 1988 ^p
Total private:										
Current dollars	\$8.93	\$8.91	\$9.23	\$9.25	\$9.23	\$310.76	\$311.85	\$320.28	\$320.05	\$323.05
Constant (1977) dollars	4.86	4.83	4.86	4.85	(²)	169.17	169.02	168.57	167.74	(²)
Mining:										
Current dollars	12.50	12.52	12.60	12.52	\$12.54	530.00	529.60	539.28	527.09	\$530.44
Constant (1977) dollars	6.80	6.79	6.63	6.56	(²)	288.51	287.05	283.83	276.25	(²)
Construction:										
Current dollars	12.66	12.66	12.88	12.88	\$12.90	487.41	482.35	488.15	493.30	\$499.23
Constant (1977) dollars	6.89	6.86	6.78	6.75	(²)	265.33	261.44	256.92	258.54	(²)
Manufacturing:										
Current dollars	9.87	9.87	10.12	10.14	\$10.16	403.68	405.66	414.92	414.73	\$417.58
Constant (1977) dollars	5.37	5.35	5.33	5.31	(²)	219.75	219.87	218.38	217.36	(²)
Transportation and public utilities:										
Current dollars	11.93	11.94	12.27	12.25	\$12.20	466.46	468.05	480.98	477.75	\$481.90
Constant (1977) dollars	6.49	6.47	6.46	6.42	(²)	253.92	253.69	253.15	250.39	(²)
Wholesale trade:										
Current dollars	9.56	9.54	9.88	9.87	\$9.85	366.15	365.38	377.42	375.06	\$376.27
Constant (1977) dollars	5.20	5.17	5.20	5.17	(²)	199.32	198.04	198.64	196.57	(²)
Retail trade:										
Current dollars	6.09	6.08	6.26	6.27	\$6.27	177.83	179.97	180.91	181.20	\$184.97
Constant (1977) dollars	3.32	3.30	3.29	3.29	(²)	96.80	97.54	95.22	94.97	(²)
Finance, insurance, and real estate:										
Current dollars	8.72	8.63	9.03	9.09	\$8.95	316.54	314.13	326.89	324.51	\$320.41
Constant (1977) dollars	4.75	4.68	4.75	4.76	(²)	172.31	170.26	172.05	170.08	(²)
Services:										
Current dollars	8.40	8.37	8.82	8.84	\$8.78	272.16	273.70	287.53	286.42	\$287.11
Constant (1977) dollars	4.57	4.54	4.64	4.63	(²)	148.15	148.35	151.33	150.12	(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 1987 benchmark levels. When more recent benchmark data are introduced all unadjusted data from April 1987 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	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May ^p	June ^p
Total private	34.7	34.8	34.8	34.6	34.9	34.8	34.6	34.7	34.8	34.6	34.9	34.7	34.8
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	41.0	41.0	41.0	40.6	41.2	41.2	41.0	41.1	41.0	40.9	41.2	41.0	41.0
<i>Overtime hours</i>	3.7	3.8	3.8	3.7	3.9	3.9	3.8	3.9	3.7	3.7	3.9	3.9	3.9
Durable goods	41.5	41.6	41.5	41.0	41.8	41.8	41.5	41.6	41.5	41.5	42.0	41.8	41.7
<i>Overtime hours</i>	3.8	3.8	3.9	3.7	4.0	4.0	3.9	4.0	3.8	3.8	4.2	4.2	4.1
Lumber and wood products	40.6	40.6	40.5	39.6	40.4	40.7	40.4	40.2	40.3	40.1	40.6	40.0	40.0
Furniture and fixtures	40.0	40.0	40.0	39.5	40.1	40.2	39.8	39.6	39.5	39.3	39.5	39.4	39.2
Stone, clay, and glass products	42.0	42.3	42.2	42.0	42.5	42.4	42.5	42.0	42.3	42.3	42.5	42.3	42.3
Primary metal industries	43.0	43.2	43.3	43.2	43.6	43.5	43.4	43.4	43.1	43.3	43.5	43.7	43.8
Blast furnaces and basic steel products ..	43.2	43.7	43.7	44.6	43.9	43.8	44.0	44.0	43.8	43.7	43.8	43.9	44.9
Fabricated metal products	41.6	41.5	41.5	40.9	41.9	42.1	41.7	41.8	41.6	41.6	42.0	41.9	41.9
Machinery, except electrical	42.3	42.5	42.3	41.7	42.6	42.7	42.6	42.7	42.6	42.5	42.8	42.6	42.4
Electrical and electronic equipment	40.9	40.9	40.9	40.4	41.0	41.0	40.9	41.1	40.9	40.9	41.2	41.0	41.0
Transportation equipment	41.9	41.8	41.8	41.4	42.4	42.3	41.5	42.0	42.0	42.1	43.0	43.1	42.8
Motor vehicles and equipment	42.0	41.8	41.9	41.5	42.8	42.9	41.4	42.1	42.3	42.3	44.1	44.0	44.0
Instruments and related products	41.4	41.5	41.6	41.0	41.9	41.4	41.2	41.8	41.3	41.4	41.8	41.4	41.3
Miscellaneous manufacturing	39.4	39.5	39.7	38.9	39.5	39.2	39.2	39.1	39.3	39.2	39.4	39.2	39.2
Nondurable goods	40.2	40.3	40.3	40.1	40.4	40.3	40.3	40.3	40.2	40.1	40.3	40.0	40.1
<i>Overtime hours</i>	3.6	3.7	3.7	3.6	3.8	3.7	3.7	3.8	3.6	3.6	3.6	3.6	3.6
Food and kindred products	40.1	40.1	40.2	40.2	40.4	40.4	40.5	40.6	40.3	40.1	40.1	40.2	40.4
Tobacco manufactures	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Textile mill products	42.1	42.3	42.0	41.4	41.8	41.6	41.5	41.5	41.6	41.2	41.6	40.7	40.6
Apparel and other textile products	37.0	37.2	37.2	36.4	37.3	37.1	37.1	36.8	37.0	37.0	37.4	36.8	36.9
Paper and allied products	43.4	43.5	43.4	43.7	43.6	43.5	43.3	43.4	43.3	43.2	43.3	43.3	43.1
Printing and publishing	38.0	38.1	38.1	38.1	38.1	38.0	38.0	38.1	38.1	38.1	38.2	37.7	38.1
Chemicals and allied products	42.2	42.2	42.4	42.5	42.5	42.5	42.5	42.5	42.4	42.5	42.1	41.9	42.4
Petroleum and coal products	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Rubber and misc. plastics products	41.7	41.6	41.6	41.3	41.8	41.8	41.6	41.7	41.6	41.7	42.0	41.7	41.6
Leather and leather products	38.5	38.4	38.9	37.8	38.8	38.3	38.0	38.0	37.8	37.9	37.3	37.4	36.9
Transportation and public utilities	39.0	39.3	39.3	39.1	39.3	39.2	39.1	39.5	39.1	38.8	39.5	39.2	39.3
Wholesale trade	38.1	38.1	38.2	38.0	38.2	38.2	38.0	38.1	38.2	38.1	38.3	38.0	38.0
Retail trade	29.2	29.3	29.4	29.5	29.2	29.2	28.8	29.0	29.1	29.0	29.2	29.0	29.2
Finance, insurance, and real estate	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Services	32.5	32.5	32.5	32.5	32.6	32.6	32.5	32.6	32.7	32.4	32.7	32.5	32.5

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.

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 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

C-6. Indexes of aggregate weekly hours of production or nonsupervisory workers ¹ on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

(1977 = 100)

Industry	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May ^p	June ^p
Total private	120.5	121.1	121.6	121.1	122.5	122.8	122.5	123.0	123.9	123.6	125.1	124.4	125.3
Goods-producing	98.7	99.3	99.6	98.0	101.0	101.2	101.3	100.5	101.1	101.6	102.7	102.1	103.0
Mining	80.8	81.9	82.9	82.7	85.0	84.1	84.0	81.7	82.5	83.2	85.9	83.9	84.4
Construction	132.7	133.0	133.9	127.0	136.7	136.4	137.7	132.1	136.0	139.1	141.1	139.8	143.6
Manufacturing	93.0	93.6	93.8	93.2	94.8	95.1	95.0	95.2	95.2	95.2	96.1	95.7	96.1
Durable goods	90.4	90.7	91.3	90.3	92.5	92.9	92.5	92.7	92.7	92.7	94.0	93.9	94.1
Lumber and wood products	101.9	102.4	101.8	100.2	102.2	103.9	103.7	103.0	103.6	103.1	104.7	103.0	103.0
Furniture and fixtures	110.8	112.7	112.4	111.3	114.1	114.6	114.0	113.7	113.2	112.3	113.2	113.7	113.1
Stone, clay, and glass products	85.5	86.1	85.9	85.7	87.1	87.3	88.3	86.5	87.3	87.5	88.3	87.5	87.7
Primary metal industries	63.4	64.1	65.0	65.5	66.5	66.8	66.6	66.5	66.4	66.9	67.6	66.2	68.8
Blast furnaces and basic steel products	50.2	51.3	51.8	54.0	53.9	54.1	54.1	53.9	53.9	54.1	54.8	54.6	55.9
Fabricated metal products	88.0	87.9	88.2	87.5	90.1	91.2	90.7	90.9	90.8	90.8	91.8	92.1	92.8
Machinery, except electrical	85.4	86.2	86.5	85.7	88.1	89.0	89.3	90.0	90.2	90.4	91.5	91.6	91.7
Electrical and electronic equipment	99.3	100.2	100.4	99.3	101.4	101.5	101.8	102.2	101.8	101.9	102.8	102.2	102.9
Transportation equipment	98.8	97.1	99.4	97.5	99.7	99.1	97.1	97.5	97.3	96.8	100.0	100.3	99.9
Motor vehicles and equipment	87.4	83.3	88.5	85.7	88.9	88.7	84.6	84.7	85.7	84.8	89.8	90.0	90.3
Instruments and related products	102.0	102.8	103.0	102.1	105.2	104.4	103.9	106.0	105.0	105.2	106.5	106.1	106.1
Miscellaneous manufacturing	81.6	82.2	82.9	81.5	83.4	83.6	83.6	83.4	84.8	84.5	85.0	83.9	83.9
Nondurable goods	96.7	97.8	97.5	97.3	98.3	98.5	98.7	99.0	99.0	98.8	99.1	98.4	98.9
Food and kindred products	99.2	99.6	99.5	99.7	100.3	100.9	101.3	102.2	101.7	100.9	101.0	101.0	101.9
Tobacco manufactures	76.8	75.5	73.2	70.9	71.7	73.8	76.4	77.2	75.8	74.8	73.8	70.9	71.0
Textile mill products	82.7	84.0	83.0	82.1	82.9	82.7	82.5	82.5	82.7	81.7	82.2	80.4	79.8
Apparel and other textile products	85.0	87.0	85.4	84.0	86.3	86.1	85.9	85.1	85.5	85.7	86.2	84.8	84.7
Paper and allied products	100.4	101.0	100.8	102.3	101.7	101.4	101.2	101.6	101.5	101.3	101.4	101.4	101.3
Printing and publishing	130.9	131.6	132.2	132.7	133.0	133.4	133.7	134.9	135.5	136.0	136.5	134.7	136.8
Chemicals and allied products	93.4	94.5	95.5	96.2	96.2	96.7	97.4	97.4	97.1	97.9	97.1	97.3	98.8
Petroleum and coal products	83.9	85.9	83.7	84.7	85.1	85.3	86.3	86.3	84.5	83.5	84.9	84.7	85.3
Rubber and misc. plastics products	115.1	116.1	116.5	116.2	118.7	119.6	120.1	120.9	121.0	121.8	122.9	122.9	123.4
Leather and leather products	56.8	59.1	58.4	56.7	58.2	57.5	57.0	57.5	57.2	56.9	55.5	56.1	55.4
Service-producing	132.5	133.2	133.8	133.9	134.3	134.7	134.2	135.5	136.4	135.8	137.4	136.7	137.6
Transportation and public utilities	108.4	109.5	109.9	110.0	110.9	111.0	111.0	112.6	111.8	111.2	113.5	113.0	113.9
Wholesale trade	118.9	119.2	119.8	119.6	120.7	121.3	121.3	122.2	123.1	123.6	124.8	124.3	124.9
Retail trade	122.2	123.0	123.6	124.1	123.5	123.8	122.2	124.0	125.2	124.8	126.0	125.1	126.4
Finance, insurance, and real estate	141.6	141.4	141.8	140.6	141.1	141.3	139.6	141.3	141.6	139.6	141.1	139.5	139.8
Services	152.1	152.9	153.5	153.7	154.8	155.3	155.6	156.5	158.0	157.2	159.0	158.4	159.4

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.

^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1987							1988					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May ^p	June ^p
Hourly Earnings Index ² (1977 = 100)													
Total private (in current dollars)	172.9	173.2	174.1	174.6	174.9	175.6	175.7	176.6	176.7	177.0	178.0	178.6	178.5
Mining	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Construction	155.4	154.9	155.1	154.8	155.2	156.5	155.4	157.6	156.8	157.5	157.8	157.7	158.3
Manufacturing	174.5	174.5	175.3	176.3	176.1	176.4	176.6	176.8	177.0	177.3	177.9	178.3	178.8
Transportation and public utilities	175.6	176.2	177.0	176.8	177.5	177.6	178.2	178.3	179.1	179.4	180.6	181.1	180.1
Wholesale trade	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Retail trade	160.6	161.1	161.5	162.3	162.1	162.4	162.7	163.4	163.4	163.8	164.8	165.4	165.9
Finance, insurance, and real estate	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Services	180.2	180.9	182.4	182.5	183.9	184.9	185.2	186.5	186.3	186.9	188.3	189.8	189.2
Total private (in constant dollars) ⁴	93.8	93.7	93.7	93.7	93.6	93.8	93.7	93.8	93.7	93.5	93.6	93.5	(^q)
Average hourly earnings													
Total private	\$8.95	\$8.96	\$9.01	\$9.02	\$9.07	\$9.10	\$9.11	\$9.14	\$9.13	\$9.16	\$9.23	\$9.27	\$9.27
Mining	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Construction	\$12.74	\$12.71	\$12.72	\$12.70	\$12.72	\$12.81	\$12.74	\$12.91	\$12.82	\$12.90	\$12.93	\$12.92	\$12.98
Manufacturing	9.89	9.88	9.94	10.00	9.99	10.00	10.01	10.02	10.03	10.05	10.11	10.15	10.18
Transportation and public utilities	12.00	12.03	12.09	12.07	12.12	12.13	12.16	12.14	12.19	12.21	12.29	12.32	12.26
Wholesale trade	9.55	9.59	9.65	9.64	9.70	9.71	9.69	9.75	9.72	9.76	9.88	9.88	9.86
Retail trade	6.10	6.12	6.13	6.18	6.16	6.17	6.19	6.20	6.20	6.22	6.25	6.27	6.30
Finance, insurance, and real estate	8.65	8.70	8.79	8.76	8.82	8.89	8.84	8.92	8.91	8.90	8.99	9.08	8.97
Services	8.44	8.46	8.53	8.55	8.60	8.65	8.67	8.72	8.72	8.75	8.81	8.88	8.86
Average weekly earnings													
Total private:													
In current dollars	310.57	311.81	313.55	312.09	316.54	316.68	315.21	317.16	317.72	316.94	322.13	321.67	322.60
In constant (1977) dollars ⁴	168.42	168.64	168.76	167.61	169.36	169.08	168.02	168.43	168.46	167.43	169.36	168.41	(^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 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Alabama	41.2	41.0	41.0	\$8.71	\$8.99	\$8.98	\$358.85	\$368.59	\$368.18
Birmingham	40.3	41.2	40.8	8.92	9.01	9.10	359.48	371.21	371.28
Mobile	41.5	40.3	40.0	10.14	10.60	10.36	420.81	427.18	414.40
Alaska	42.8	37.1	36.4	11.87	12.76	12.63	508.04	473.40	459.73
Arizona	41.0	41.1	41.3	9.92	9.78	9.86	406.72	401.96	407.22
Arkansas	40.9	40.7	41.0	7.88	8.05	8.13	322.29	327.64	333.33
Fayetteville-Springdale	40.4	41.3	40.9	7.11	7.31	7.22	287.24	301.90	295.30
Fort Smith	40.7	41.2	41.0	8.37	8.66	8.81	340.66	356.79	361.21
Little Rock-North Little Rock	41.5	40.5	40.7	8.58	8.55	8.51	356.07	346.28	346.36
Pine Bluff	42.3	42.5	43.3	10.77	10.44	10.71	455.57	443.70	463.74
California	40.5	(¹)	(¹)	10.69	(¹)	(¹)	432.95	(¹)	(¹)
Colorado	40.3	40.7	41.1	10.11	10.22	10.29	407.43	415.95	422.92
Denver	40.6	41.5	40.6	10.53	10.51	10.54	427.52	436.17	427.92
Connecticut	42.2	41.5	41.3	10.38	10.76	10.78	438.04	446.54	445.21
Bridgeport-Milford	42.2	42.2	42.2	10.83	11.16	11.17	457.03	470.95	471.37
Hartford	41.5	42.5	42.6	10.63	11.10	11.20	441.15	471.75	477.12
New Haven-Meriden	40.6	40.3	40.5	10.05	10.19	10.23	408.03	410.66	414.32
Stamford	40.3	40.7	40.6	11.28	12.16	12.00	454.58	494.91	487.20
Waterbury	42.7	42.9	43.0	8.87	9.16	9.17	378.75	392.96	394.31
Delaware	41.6	39.7	39.6	10.45	10.64	10.75	434.72	422.41	425.70
Wilmington	41.7	40.2	40.0	12.32	13.13	13.24	513.74	527.83	529.60
District of Columbia:									
Washington MSA	39.6	39.4	40.4	10.62	11.27	10.90	420.55	444.04	440.36
Florida	40.8	40.7	40.9	8.09	8.22	8.29	330.07	334.55	339.06
Fort Lauderdale-Hollywood-Pompano Beach	42.5	40.7	41.4	7.98	8.28	8.27	339.15	337.00	342.38
Jacksonville	40.5	41.3	40.2	8.61	9.02	9.13	348.71	372.53	367.03
Miami-Hialeah	39.2	38.8	39.1	7.01	7.13	7.24	274.79	276.64	283.08
Orlando	40.3	41.3	41.1	8.54	8.70	8.70	344.16	359.31	357.57
Pensacola	41.4	42.7	42.3	10.47	10.92	10.81	433.46	466.28	457.26
Tampa-St. Petersburg-Clearwater	39.9	41.2	41.1	7.55	7.94	7.97	301.25	327.13	327.57
West Palm Beach-Boca Raton-Delray Beach	39.9	40.1	40.9	9.23	9.23	9.15	368.28	370.12	374.24
Georgia	41.7	41.3	41.2	8.45	8.65	8.66	352.37	357.25	356.79
Atlanta	41.6	41.7	41.3	9.96	10.24	10.25	414.34	427.01	423.33
Savannah	44.9	47.8	48.5	10.90	11.21	11.23	489.41	535.84	544.66
Hawaii	39.5	39.8	39.4	9.28	9.68	9.80	366.56	385.26	386.12
Honolulu	39.8	39.7	39.5	9.29	9.78	9.84	369.74	388.27	388.68
Idaho	38.9	37.9	37.9	9.45	9.52	9.63	367.61	360.81	364.98
Illinois	41.3	41.8	41.6	10.85	11.08	11.06	448.11	463.14	460.10
Aurora-Elgin	42.2	41.5	40.9	10.35	10.61	10.56	436.77	440.32	431.90
Bloomington-Normal	40.3	40.3	39.3	10.74	11.26	11.32	432.82	453.78	444.88
Champaign-Urbana-Rantoul	40.7	39.3	39.2	9.20	9.23	8.95	374.44	362.74	350.84
Chicago	41.4	42.5	42.5	10.55	10.74	10.82	436.77	456.45	459.85
Davenport-Rock Island-Moline	40.0	40.0	40.0	12.87	12.49	12.49	514.80	499.60	499.60
Decatur	41.7	42.4	41.5	13.93	14.19	13.97	580.88	601.66	579.76
Joliet	42.3	41.5	41.4	11.64	11.92	11.80	492.37	494.68	488.52
Lake County	39.4	40.3	40.6	10.85	11.26	11.33	427.49	453.78	460.00
Peoria	42.7	47.2	44.2	13.00	13.42	13.42	555.10	633.42	593.16
Rockford	42.2	42.5	42.6	11.00	11.56	11.60	464.20	491.30	494.16
Springfield	41.3	42.6	42.6	11.45	11.40	11.51	472.89	485.64	490.33
Indiana	41.7	42.0	41.9	11.01	11.37	11.42	459.12	477.54	478.50

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Iowa	41.0	41.2	41.4	\$10.55	\$10.58	\$10.59	\$432.55	\$435.90	\$438.43
Cedar Rapids	40.1	39.5	40.0	11.37	11.95	11.93	455.94	472.03	477.20
Des Moines	41.6	42.2	42.3	11.69	11.93	12.04	486.30	503.45	509.29
Dubuque	42.3	41.1	41.2	12.49	11.84	11.80	528.33	486.62	486.16
Sioux City	40.3	37.2	36.7	8.11	8.05	7.98	326.83	299.46	292.87
Kansas	41.0	40.5	40.5	9.92	10.06	10.13	406.72	407.43	410.27
Topeka	43.1	43.9	43.3	10.94	11.25	11.25	471.51	493.88	487.13
Wichita	39.7	40.3	39.4	10.91	10.38	10.45	433.13	418.31	411.73
Kentucky	40.4	40.2	40.7	10.02	10.14	10.14	404.81	407.63	412.70
Lexington-Fayette	39.6	38.8	39.1	10.25	10.18	10.23	405.90	394.98	399.99
Louisville	41.7	41.4	41.7	11.35	11.71	11.73	473.30	484.79	489.14
Louisiana	41.7	42.6	42.0	10.99	10.97	10.90	458.28	467.32	457.80
Baton Rouge	42.8	42.6	42.4	12.18	12.49	12.59	521.30	532.07	533.82
New Orleans	40.0	41.2	40.5	10.70	10.42	10.26	428.00	429.30	415.53
Shreveport	39.7	41.3	41.4	11.58	11.67	11.69	459.73	481.97	483.97
Maine	41.6	40.4	40.9	8.69	8.90	9.04	361.50	359.56	369.74
Lewiston-Auburn	40.3	40.4	41.5	7.30	7.87	7.97	294.19	317.95	330.76
Portland	40.5	40.7	41.1	9.18	9.35	9.59	371.79	380.55	394.15
Maryland	40.8	40.8	41.2	9.99	10.40	10.46	407.59	424.32	430.95
Baltimore MSA	41.6	41.9	41.9	10.81	11.09	11.06	449.70	464.67	463.41
Massachusetts	41.0	41.2	40.8	9.67	10.12	10.12	396.47	416.94	412.90
Boston	40.6	41.4	41.4	10.65	10.90	10.94	432.39	451.26	452.92
Springfield	42.1	42.9	42.7	9.14	9.56	9.67	384.79	410.12	412.91
Worcester	41.3	40.1	40.1	9.75	10.30	10.26	402.68	413.03	411.43
Michigan	42.0	43.5	43.7	12.92	13.44	13.46	542.64	584.64	588.20
Ann Arbor	43.9	47.7	46.6	13.87	15.01	14.78	608.89	715.98	688.75
Battle Creek	42.7	41.2	41.7	13.50	14.28	14.11	576.45	588.34	588.39
Detroit	43.0	44.6	44.7	13.79	14.42	14.36	592.97	643.13	641.89
Flint	43.0	44.7	43.7	14.89	16.18	16.49	640.27	723.25	720.61
Grand Rapids	39.5	41.5	41.4	11.08	11.37	11.33	437.66	471.85	469.06
Kalamazoo	42.2	42.9	42.7	11.92	12.34	12.36	503.02	529.39	527.77
Lansing-East Lansing	42.7	41.8	44.5	13.94	14.30	15.15	595.24	597.74	674.17
Muskegon	41.0	40.3	40.9	11.68	12.06	12.06	478.88	486.02	493.25
Saginaw-Bay City-Midland	42.9	44.0	44.4	14.44	15.19	15.21	619.48	668.36	675.32
Minnesota	40.7	40.3	40.1	10.42	10.49	10.53	424.09	422.75	422.25
Duluth	39.1	39.9	39.3	10.89	10.96	10.78	425.80	437.30	423.65
Minneapolis-St. Paul	40.5	40.7	40.2	11.23	11.13	11.21	454.82	452.99	450.64
St. Cloud	39.3	40.0	39.9	9.14	9.61	9.86	359.20	384.40	393.41
Mississippi	39.9	39.9	40.0	7.55	7.81	7.84	301.25	311.62	313.60
Jackson	40.0	40.7	40.6	8.43	8.91	8.89	337.20	362.64	360.93
Missouri	40.8	40.5	40.9	9.90	10.14	10.09	403.92	410.67	412.68
Kansas City	40.4	40.8	41.6	11.01	11.60	11.50	444.80	473.28	478.40
St. Louis	41.4	41.3	41.2	11.49	11.67	11.79	475.69	481.97	485.75
Springfield	39.4	39.5	39.8	8.68	8.50	8.49	341.99	335.75	337.90
Montana	39.1	40.0	39.0	10.75	10.73	10.68	420.33	429.20	416.52
Nebraska	40.2	40.4	40.7	9.27	9.51	9.44	372.65	384.20	384.21
Lincoln	40.4	40.8	40.1	9.87	10.09	9.90	390.67	411.67	396.99
Omaha	40.1	41.6	41.1	9.96	10.33	10.18	399.40	429.73	418.40
Nevada	40.5	38.7	39.5	9.75	9.99	10.04	394.88	386.61	396.58
Las Vegas	40.5	38.4	39.9	11.86	12.45	12.25	480.33	478.08	488.78
New Hampshire	41.0	40.8	40.6	9.18	9.52	9.52	376.38	388.42	386.51
Nashua	41.7	40.2	40.7	11.14	11.71	11.63	464.54	470.74	473.34

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
New Jersey	41.1	41.2	41.0	\$10.37	\$10.80	\$10.83	\$426.21	\$444.96	\$444.03
New Mexico	40.9	41.1	40.4	8.63	8.82	8.98	352.97	362.50	362.79
Albuquerque	41.3	41.1	41.2	8.90	9.26	9.26	367.57	380.59	381.51
New York	39.7	40.0	39.9	10.02	10.33	10.37	397.79	413.20	413.76
Albany-Schenectady-Troy	39.8	40.6	40.4	10.44	10.86	10.90	415.51	440.92	440.36
Binghamton	39.8	40.4	40.2	9.11	9.54	9.57	362.58	385.42	384.71
Buffalo	40.8	43.9	43.1	11.94	12.28	12.32	487.15	539.09	530.99
Elmira	40.7	41.1	41.7	9.33	9.72	9.86	379.73	399.49	411.16
Nassau-Suffolk	40.1	39.8	39.7	10.69	11.00	11.04	428.67	437.80	438.29
New York PMSA	37.7	37.4	37.2	9.40	9.57	9.71	354.38	357.92	361.21
New York City	37.4	37.2	36.9	9.33	9.30	9.45	348.94	345.96	348.71
Niagara Falls	40.7	42.6	42.6	12.68	13.25	13.30	516.08	564.45	566.58
Orange County	38.5	39.3	39.0	7.93	8.11	8.10	305.31	318.72	315.90
Poughkeepsie	42.6	41.0	40.9	9.23	9.81	9.88	393.20	402.21	404.09
Rochester	40.9	43.0	42.5	11.97	12.57	12.52	489.57	540.51	532.10
Rockland County	39.5	35.8	35.5	10.22	11.20	11.28	403.69	400.96	400.44
Syracuse	40.3	42.2	42.1	11.03	11.70	11.82	444.51	493.74	497.62
Utica-Rome	41.2	41.1	40.8	9.54	9.65	9.68	393.05	396.62	394.94
Westchester County	39.8	39.5	40.2	9.69	11.29	11.32	385.66	445.96	455.06
North Carolina	41.0	40.3	40.2	7.79	8.07	8.07	319.39	325.22	324.41
Asheville	42.0	41.4	41.6	7.85	8.11	8.14	329.70	335.75	338.62
Charlotte-Gastonia-Rock Hill	42.0	41.0	40.5	8.00	8.31	8.32	336.00	340.71	336.96
Greensboro-Winston-Salem-High Point	41.0	40.0	39.9	8.64	8.91	8.93	354.24	356.40	356.31
Raleigh-Durham	41.7	41.5	41.2	8.83	9.07	9.09	368.21	376.41	374.51
North Dakota	38.7	38.0	38.2	8.45	8.46	8.45	327.02	321.48	322.79
Fargo-Moorhead	37.7	37.5	37.4	8.45	8.38	8.49	318.57	314.25	317.53
Ohio	42.5	43.0	43.2	11.71	12.02	12.03	497.68	516.86	519.70
Akron	43.0	43.7	43.5	11.33	11.73	11.76	487.19	512.60	511.56
Cincinnati	42.3	42.0	42.1	11.02	11.01	11.05	466.15	462.42	465.21
Cleveland	42.7	43.4	43.4	11.55	11.81	11.83	493.19	512.55	513.42
Columbus	41.6	41.7	41.5	11.40	11.57	11.62	474.24	482.47	482.23
Dayton-Springfield	41.4	43.3	43.8	11.74	12.62	12.59	486.04	546.45	551.44
Toledo	41.9	43.3	42.9	12.71	13.23	13.14	532.55	572.86	563.71
Youngstown-Warren	42.7	42.1	43.6	13.25	13.55	13.61	565.78	570.46	593.40
Oklahoma	41.3	41.6	41.3	10.06	10.32	10.32	415.48	429.31	426.22
Oklahoma City	40.7	41.5	41.2	11.19	11.61	11.69	455.43	481.82	481.63
Tulsa	40.9	41.1	41.0	10.59	10.85	10.87	433.13	445.94	445.67
Oregon	40.2	40.0	38.5	10.61	10.75	10.74	426.52	430.00	413.49
Eugene-Springfield	41.2	41.0	39.5	10.53	10.76	10.62	433.84	441.16	419.49
Portland	39.9	39.3	39.0	10.83	10.97	10.95	432.12	431.12	427.05
Salem	38.9	38.4	37.0	9.65	9.68	9.46	375.39	371.71	350.02

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Pennsylvania	40.8	40.9	40.8	\$9.93	\$10.20	\$10.20	\$405.14	\$417.18	\$416.16
Allentown-Bethlehem	39.5	40.2	40.1	10.52	10.32	10.28	415.54	414.86	412.23
Altoona	39.6	40.1	40.1	8.57	8.68	8.58	339.37	348.07	344.06
Beaver County	41.9	42.7	42.5	11.15	10.57	10.80	467.19	451.34	459.00
Erie	41.8	42.4	42.6	10.16	10.40	10.36	424.69	440.96	441.34
Harrisburg-Lebanon-Carlisle	39.7	39.6	39.2	9.29	9.43	9.47	368.81	373.43	371.22
Johnstown	38.8	39.5	39.5	8.37	8.38	8.35	324.76	331.01	329.83
Lancaster	39.9	40.2	39.8	9.63	9.97	9.93	384.24	400.79	395.21
Philadelphia PMSA	40.6	40.4	40.2	10.75	11.18	11.18	436.45	451.67	449.44
Pittsburgh	42.0	41.9	41.6	11.15	11.25	11.23	468.30	471.38	467.17
Reading	40.6	41.0	40.6	10.10	10.65	10.63	410.06	436.65	431.58
Scranton-Wilkes-Barre	38.5	38.6	38.5	8.69	8.87	8.87	334.57	342.38	341.50
Williamsport	42.0	41.1	41.4	8.47	8.74	8.78	355.74	359.21	363.49
York	42.6	42.4	42.7	9.46	9.73	9.74	403.00	412.55	415.90
Rhode Island	40.2	39.9	39.7	8.12	8.43	8.47	326.42	336.36	336.26
Pawtucket-Woonsocket-Attleboro	40.3	40.2	40.0	7.64	7.99	8.04	307.89	321.20	321.60
Providence	39.9	39.8	39.6	8.16	8.40	8.43	325.58	334.32	333.83
South Carolina	41.6	41.4	41.2	8.06	8.27	8.28	335.30	342.38	341.14
Charleston	41.7	40.9	40.9	9.04	9.07	9.11	376.97	370.96	372.60
Columbia	40.7	41.4	41.3	7.86	8.30	8.30	319.90	343.62	342.79
Greenville-Spartanburg	41.5	41.4	41.4	7.97	8.21	8.25	330.76	339.89	341.55
South Dakota	41.6	42.1	41.9	7.80	8.03	8.03	324.48	338.06	336.46
Sioux Falls	44.4	44.8	44.1	7.61	8.25	8.08	337.88	369.60	356.33
Tennessee	41.4	41.8	41.6	8.72	8.85	8.87	361.01	369.93	368.99
Chattanooga	42.2	40.1	40.0	7.88	8.11	8.20	332.54	325.21	328.00
Johnson City-Kingsport-Bristol	43.1	42.9	41.6	9.01	9.29	9.33	388.33	398.54	388.13
Knoxville	40.4	41.1	42.2	9.19	8.99	9.01	371.28	369.49	380.22
Memphis	42.5	43.3	41.9	8.78	8.98	8.95	373.15	388.83	375.01
Nashville	42.2	41.4	41.2	10.03	10.21	10.21	423.27	422.69	420.65
Texas	41.5	41.8	41.2	9.82	9.95	9.95	407.53	415.91	409.94
Dallas	41.2	41.4	41.1	9.69	9.72	9.71	399.23	402.41	399.08
Ft. Worth-Arlington	41.2	41.5	41.9	9.83	10.52	10.48	405.00	436.58	439.11
Houston	43.7	44.1	43.6	11.18	11.23	11.21	488.57	495.24	488.76
San Antonio	40.4	41.1	41.0	7.59	7.64	7.56	306.64	314.00	309.96
Utah	39.4	40.3	39.7	9.86	9.94	9.90	388.48	400.58	393.03
Salt Lake City-Ogden	40.5	40.3	40.0	9.90	9.90	9.93	400.95	398.97	397.20
Vermont	40.4	40.2	40.4	9.07	9.23	9.24	366.43	371.05	373.30
Burlington	40.6	40.7	41.5	9.95	9.37	9.45	403.97	381.36	392.17
Virginia	41.1	40.9	40.9	9.03	9.38	9.40	371.13	383.64	384.46
Bristol	40.2	41.9	43.0	7.76	7.82	7.77	311.95	327.66	334.11
Charlottesville	40.4	39.7	41.5	7.47	7.63	7.76	301.79	302.91	322.04
Danville	44.2	42.2	42.1	8.19	8.65	8.62	362.00	365.03	362.90
Lynchburg	41.1	40.0	39.7	8.55	8.60	8.72	351.41	344.00	346.18
Northern Virginia	39.8	40.2	40.3	9.77	10.66	10.54	388.85	428.53	424.76
Richmond-Petersburg	41.4	41.8	41.6	11.55	12.02	12.10	478.17	502.44	503.36
Roanoke	40.9	39.7	40.5	8.82	9.10	9.30	360.74	361.27	376.65
Washington	40.3	39.7	40.5	11.68	11.62	11.60	470.70	461.31	469.80

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		
	May 1987	Apr. 1988	May 1988 ^p	May 1987	Apr. 1988	May 1988 ^p	May 1987	Apr. 1988	May 1988 ^p
West Virginia	40.4	40.7	41.2	\$10.50	\$10.95	\$10.84	\$424.20	\$445.67	\$446.61
Charleston	43.1	42.0	44.3	12.95	13.68	13.23	558.15	574.56	586.09
Huntington-Ashland	38.7	42.2	41.1	12.13	12.15	12.09	469.43	512.73	496.90
Parkersburg-Marietta	40.6	41.6	42.2	12.30	12.76	12.75	499.38	530.82	538.05
Wheeling	41.0	41.7	42.3	11.40	11.77	11.79	467.40	490.81	498.72
Wisconsin	41.2	41.6	41.5	10.59	10.70	10.68	436.31	445.12	443.22
Appleton-Oshkosh	42.6	42.7	42.8	10.90	11.16	11.17	464.34	476.53	478.08
Eau Claire	40.3	39.1	39.8	10.68	10.70	10.69	430.40	418.37	425.46
Green Bay	41.6	40.5	41.4	11.42	11.46	11.57	475.07	464.13	479.00
Janesville-Beloit	38.4	40.1	42.1	12.36	12.22	12.83	474.62	490.02	540.14
Kenosha	43.0	45.3	41.8	12.84	13.67	13.01	552.12	619.25	543.82
La Crosse	39.5	38.9	39.0	9.34	9.24	9.07	368.93	359.44	353.73
Madison	40.1	41.4	40.5	10.02	10.18	10.16	401.80	421.45	411.48
Milwaukee	41.1	41.3	40.9	11.65	11.66	11.60	478.82	481.56	474.44
Racine	40.0	39.7	40.3	11.23	11.03	10.98	449.20	437.89	442.49
Wausau	42.5	42.1	42.7	9.85	10.14	10.05	418.63	426.89	429.14
Wyoming	39.9	37.3	36.4	9.68	10.12	10.18	386.23	377.48	370.55
Puerto Rico	38.6	39.0	38.7	5.42	5.47	5.49	209.21	213.33	212.46
Virgin Islands	42.2	40.6	40.5	9.03	9.57	9.44	381.07	388.54	382.32

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 1987 benchmarks, except Colorado. Data for Colorado have been adjusted to December 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		
	Apr. 1988 ^r	May 1988 ^r	June 1988 ^p	June 1987 to June 1988 ^p	Apr. 1988 to May 1988 ^r	May 1988 to June 1988 ^p
Total	196,331	196,103	196,799	3.6	-0.1	0.4
Private sector	161,556	161,155	162,225	3.9	-2	.7
Mining	1,640	1,616	1,639	3.4	-1.5	1.4
Construction	10,307	10,285	10,536	7.9	-2	2.4
Manufacturing	41,501	41,491	41,598	3.0	.0	.3
Durable goods	24,744	24,746	24,807	3.4	.0	.2
Nondurable goods	16,757	16,745	16,791	2.5	-.1	.3
Transportation and public utilities	11,363	11,336	11,460	4.8	-2	1.1
Wholesale trade	12,134	12,063	12,150	4.6	-.6	.7
Retail trade	28,875	28,797	29,070	3.5	-.3	.9
Finance, insurance, and real estate	12,539	12,381	12,439	.1	-1.3	.5
Services	43,198	43,185	43,333	4.9	.0	.3
Government	34,774	34,947	34,574	1.9	.5	-1.1

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

^p =preliminary.
=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 2285, chapter 10, Productivity Measures: Business Sector and Major Subsectors. SOURCE: Office of Productivity and Technology (202 523 9261).

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

(1977=100)

Item	Annual average		Quarterly index										
	1986	1987	1985		1986				1987				1988
			III	IV	I	II	III	IV	I	II	III	IV	I
Business sector													
Output per hour of all persons	109.5	110.5	108.2	107.9	109.5	109.7	109.6	109.6	109.7	110.1	111.3	110.9	111.8
Output	128.0	132.2	124.7	125.3	127.3	127.5	128.1	129.0	130.2	131.1	133.1	134.4	136.3
Hours	116.9	119.7	115.2	116.1	116.3	116.3	116.9	117.8	118.7	119.1	119.6	121.2	121.9
Compensation per hour	182.8	188.2	177.0	179.3	180.7	182.2	183.6	185.2	185.8	187.3	189.1	190.6	192.2
Real compensation per hour	101.1	100.4	99.5	99.7	100.1	101.3	101.5	101.7	100.7	100.3	100.3	100.2	100.2
Unit labor costs	166.9	170.3	163.6	166.1	165.0	166.2	167.5	169.0	169.4	170.2	169.8	171.8	171.9
Unit nonlabor payments	163.8	169.4	161.8	160.2	163.1	163.9	165.7	162.4	166.0	168.6	172.2	170.8	170.8
Implicit price deflator	165.8	170.0	163.0	164.0	164.3	165.4	166.9	166.7	168.2	169.6	170.7	171.4	171.5
Nonfarm business sector													
Output per hour of all persons	107.5	108.4	106.4	105.9	107.7	107.7	107.5	107.5	107.6	108.0	109.1	108.8	109.8
Output	127.5	131.8	124.3	124.9	126.9	127.1	127.6	128.5	129.7	130.7	132.7	134.1	136.1
Hours	118.6	121.6	116.9	117.9	117.9	118.0	118.7	119.6	120.6	121.1	121.7	123.2	123.9
Compensation per hour	182.0	187.1	176.2	178.3	180.0	181.3	182.6	184.4	184.9	186.3	187.9	189.5	191.2
Real compensation per hour	100.6	99.8	99.0	99.2	99.8	100.8	100.9	101.2	100.2	99.7	99.7	99.6	99.7
Unit labor costs	169.3	172.7	165.7	168.3	167.2	168.4	169.8	171.5	171.8	172.5	172.2	174.1	174.1
Unit nonlabor payments	165.2	170.4	163.4	160.8	164.7	165.2	167.0	163.9	167.4	169.2	173.0	171.8	172.3
Implicit price deflator	167.8	171.9	164.9	165.7	166.4	167.3	168.8	168.8	170.3	171.4	172.5	173.3	173.4
Manufacturing													
Output per hour of all persons	128.8	132.4	125.3	126.2	127.7	128.5	129.3	129.7	130.4	132.3	133.4	133.6	134.5
Output	125.9	130.7	123.2	124.2	125.3	125.3	126.0	127.0	128.0	129.3	131.6	133.9	135.4
Hours	97.8	98.7	98.3	98.4	98.1	97.5	97.5	97.9	98.1	97.7	98.7	100.3	100.7
Compensation per hour	182.7	185.1	178.0	180.2	181.0	182.1	183.1	184.3	183.9	184.8	185.4	186.3	188.4
Real compensation per hour	101.0	98.7	100.0	100.3	100.3	101.3	101.2	101.2	99.6	98.9	98.3	97.9	98.2
Unit labor costs	141.8	139.7	142.1	142.8	141.8	141.7	141.7	142.2	141.0	139.6	139.0	139.5	140.1
Durable goods													
Output per hour of all persons	136.8	141.6	131.6	133.1	135.3	136.0	137.5	138.3	139.6	141.3	142.5	143.2	144.4
Output	134.1	139.1	130.8	132.3	133.7	133.3	134.1	135.2	136.6	137.4	139.6	143.0	144.5
Hours	98.0	98.2	99.4	99.4	98.8	98.0	97.5	97.8	97.8	97.2	98.0	99.8	100.1
Compensation per hour	181.4	183.3	176.6	179.4	179.9	180.8	181.6	183.1	182.2	182.9	183.4	184.4	187.2
Real compensation per hour	100.3	97.8	99.2	99.8	99.7	100.5	100.4	100.5	98.7	98.0	97.3	97.0	97.6
Unit labor costs	132.6	129.4	134.2	134.7	132.9	132.9	132.1	132.4	130.5	129.5	128.8	128.8	129.6
Nondurable goods													
Output per hour of all persons	116.8	118.8	115.6	115.5	116.1	117.1	117.0	116.9	116.9	119.1	120.1	119.3	119.9
Output	113.7	118.1	111.8	112.1	112.8	113.5	113.9	114.7	115.2	117.2	119.6	120.4	121.9
Hours	97.4	99.4	96.8	97.1	97.2	96.9	97.3	98.1	98.6	98.5	99.6	100.9	101.6
Compensation per hour	184.8	188.4	180.0	181.2	182.7	184.3	185.8	186.5	186.9	188.2	189.0	189.8	190.8
Real compensation per hour	102.2	100.5	101.1	100.8	101.2	102.5	102.7	102.4	101.3	100.8	100.3	99.8	99.5
Unit labor costs	158.3	158.6	155.7	156.9	157.3	157.4	158.8	159.6	159.9	158.0	157.4	159.1	159.1
Nonfinancial corporations													
Output per all-employee hour	109.9	110.2	109.2	108.9	109.8	109.7	109.9	110.5	109.7	109.9	110.8	110.5	111.4
Output	129.4	132.7	127.4	127.7	129.1	128.8	129.3	130.4	130.9	131.6	133.7	134.8	137.2
Hours	117.7	120.5	116.6	117.3	117.6	117.4	117.6	118.0	119.3	119.8	120.6	122.0	123.1
Compensation per hour	178.9	182.7	173.8	175.7	177.2	178.4	179.5	181.0	180.8	182.0	183.3	184.8	186.3
Real compensation per hour	98.9	97.5	97.6	97.8	98.2	99.2	99.2	99.4	98.0	97.5	97.2	97.1	97.1
Total unit costs	167.7	171.0	163.7	166.0	166.3	167.2	168.5	168.7	169.7	170.9	171.0	172.5	172.3
Unit labor costs	162.8	165.8	159.1	161.4	161.5	162.6	163.2	163.8	164.8	165.6	165.5	167.2	167.2
Unit nonlabor costs	182.2	186.5	177.5	179.4	180.7	180.6	184.2	183.2	184.1	186.6	187.3	188.0	187.2
Unit profits	129.3	136.1	142.5	128.7	129.7	129.5	130.6	127.7	132.2	132.9	142.1	137.0	136.4
Implicit price deflator	163.1	166.8	161.2	161.5	161.9	162.7	164.0	163.8	165.2	166.3	167.5	168.2	168.0

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 rates

Item	Percent change from											
	Previous quarter						Same quarter, previous year					
	IV 1986	I 1987	II 1987	III 1987	IV 1987	I 1988	IV 1986	I 1987	II 1987	III 1987	IV 1987	I 1988
Business sector												
Output per hour of all persons	-0.1	0.5	1.4	4.7	-1.5	3.2	1.5	0.2	0.4	1.6	1.3	1.9
Output	3.0	3.5	3.0	6.3	4.0	5.5	2.9	2.3	2.8	3.9	4.2	4.7
Hours	3.1	3.0	1.6	1.5	5.6	2.2	1.4	2.1	2.5	2.3	2.9	2.7
Compensation per hour	3.6	1.4	3.3	3.8	3.2	3.6	3.3	2.8	2.8	3.0	2.9	3.5
Real compensation per hour .....	.8	-3.8	-1.5	.0	-.5	.2	2.0	.6	-1.0	-1.1	-1.5	-.5
Unit labor costs	3.7	.9	1.8	-.9	4.7	.3	1.8	2.7	2.4	1.4	1.6	1.5
Unit nonlabor payments	-7.7	9.0	6.4	8.8	-3.2	.2	1.4	1.8	2.8	3.9	5.1	2.9
Implicit price deflator	-.5	3.7	3.4	2.5	1.8	.3	1.7	2.3	2.6	2.3	2.8	2.0
Nonfarm business sector												
Output per hour of all persons .....	.0	.4	1.4	4.2	-1.0	3.6	1.5	-.1	.3	1.5	1.3	2.1
Output	2.9	3.8	3.2	6.3	4.2	5.9	2.9	2.2	2.9	4.0	4.4	4.9
Hours	2.9	3.4	1.7	2.0	5.2	2.2	1.4	2.3	2.6	2.5	3.1	2.8
Compensation per hour	4.0	1.1	3.0	3.6	3.5	3.4	3.4	2.7	2.7	2.9	2.8	3.4
Real compensation per hour	1.3	-4.1	-1.8	-.3	-.1	.0	2.1	.4	-1.1	-1.2	-1.6	-.5
Unit labor costs	4.0	.8	1.5	-.6	4.5	-.2	1.9	2.8	2.4	1.4	1.5	1.3
Unit nonlabor payments	-7.2	8.8	4.6	9.3	-2.7	1.1	1.9	1.6	2.4	3.6	4.9	3.0
Implicit price deflator .....	.0	3.4	2.6	2.7	1.9	.2	1.9	2.4	2.4	2.2	2.7	1.9
Manufacturing												
Output per hour of all persons	1.2	2.4	5.9	3.3	.5	2.8	2.8	2.1	3.0	3.2	3.0	3.1
Output	3.2	3.2	4.2	7.3	7.3	4.5	2.3	2.2	3.2	4.4	5.5	5.8
Hours	2.0	.8	-1.6	3.8	6.7	1.6	-.5	.0	.2	1.2	2.4	2.6
Compensation per hour	2.7	-1.0	2.0	1.3	2.1	4.6	2.3	1.6	1.5	1.2	1.1	2.5
Real compensation per hour	-.1	-6.1	-2.7	-2.4	-1.5	1.2	1.0	-.7	-2.3	-2.9	-3.2	-1.4
Unit labor costs	1.4	-3.4	-3.7	-1.9	1.5	1.7	-.5	-.6	-1.5	-1.9	-1.9	-.6
Durable goods												
Output per hour of all persons	2.3	3.9	4.9	3.4	2.2	3.4	3.8	3.1	3.8	3.6	3.6	3.5
Output	3.4	4.0	2.4	6.7	10.0	4.3	2.2	2.2	3.1	4.1	5.7	5.8
Hours	1.1	.0	-2.4	3.3	7.7	.8	-1.5	-.9	-.7	.5	2.1	2.3
Compensation per hour	3.4	-1.9	1.6	1.1	2.2	6.2	2.1	1.3	1.2	1.0	.7	2.8
Real compensation per hour .....	.7	-6.9	-3.1	-2.6	-1.4	2.7	.7	-1.0	-2.5	-3.0	-3.5	-1.1
Unit labor costs	1.1	-5.6	-3.2	-2.2	.0	2.7	-1.7	-1.8	-2.6	-2.5	-2.8	-.7
Nondurable goods												
Output per hour of all persons	-.4	.0	7.8	3.3	-2.5	2.1	1.2	.7	1.7	2.6	2.1	2.6
Output	2.9	1.9	7.2	8.2	2.7	5.0	2.3	2.1	3.3	5.0	5.0	5.8
Hours	3.3	1.9	-.5	4.7	5.4	2.8	1.1	1.4	1.6	2.3	2.9	3.1
Compensation per hour	1.5	.7	2.8	1.7	1.6	2.2	2.9	2.3	2.1	1.7	1.7	2.1
Real compensation per hour	-1.1	-4.5	-1.9	-2.0	-1.9	-1.1	1.6	.0	-1.7	-2.4	-2.6	-1.7
Unit labor costs	1.9	.7	-4.6	-1.5	4.3	.1	1.7	1.6	.4	-.9	-.3	-.5
Nonfinancial corporations												
Output per all-employee hour	2.1	-2.9	.7	3.3	-1.0	3.4	1.5	.0	.2	.8	.0	1.6
Output	3.4	1.5	2.2	6.4	3.5	7.3	2.1	1.4	2.2	3.4	3.4	4.8
Hours	1.3	4.6	1.6	3.0	4.6	3.8	.6	1.5	2.0	2.6	3.4	3.2
Compensation per hour	3.5	-.5	2.6	2.9	3.3	3.4	3.0	2.0	2.0	2.1	2.1	3.1
Real compensation per hour .....	.7	-5.6	-2.1	-.9	-.4	.0	1.7	-.2	-1.7	-2.0	-2.3	-.8
Total unit costs .....	.3	2.4	2.9	.1	3.6	-.5	1.6	2.0	2.2	1.4	2.2	1.5
Unit labor costs	1.3	2.5	2.0	-.4	4.3	.0	1.5	2.1	1.8	1.3	2.1	1.5
Unit nonlabor costs	-2.3	2.2	5.4	1.5	1.6	-1.7	2.1	1.9	3.3	1.7	2.7	1.7
Unit profits	-8.5	14.7	2.1	30.7	-13.4	-1.9	-.8	1.9	2.6	8.8	7.3	3.2
Implicit price deflator	-.5	3.5	2.8	2.8	1.7	-.6	1.4	2.0	2.3	2.1	2.7	1.7

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Alabama	1,893.9	1,846.2	1,861.7	141.6	125.9	126.1	7.5	6.8	6.8
Birmingham	445.8	437.7	440.7	28.3	24.6	24.7	6.3	5.6	5.6
Huntsville	129.9	129.9	131.6	6.5	6.3	6.3	5.0	4.9	4.8
Mobile	213.1	205.1	206.7	18.4	18.1	17.7	8.7	8.8	8.6
Montgomery	137.5	133.7	134.8	8.9	7.8	8.6	6.5	5.8	6.4
Tuscaloosa	69.7	68.8	68.9	4.4	3.4	3.6	6.3	5.0	5.3
Alaska	254.0	245.9	247.5	29.1	24.2	23.3	11.5	9.8	9.4
Arizona	1,620.0	1,635.7	1,628.6	101.2	89.2	94.0	6.2	5.5	5.8
Phoenix	1,005.7	1,015.2	1,012.7	52.0	45.4	46.6	5.2	4.5	4.6
Tucson	307.8	313.0	310.4	14.7	14.3	14.7	4.8	4.6	4.7
Arkansas	1,101.1	1,128.5	1,138.2	85.6	84.8	88.3	7.8	7.5	7.8
Fayetteville-Springdale	57.8	61.5	61.8	2.4	2.3	2.5	4.1	3.7	4.0
Fort Smith	92.0	95.1	95.4	5.3	5.4	5.6	5.7	5.7	5.8
Little Rock-North Little Rock	258.3	265.7	267.3	18.2	16.9	17.6	7.0	6.4	6.6
Pine Bluff	37.1	37.7	37.7	3.2	3.0	3.1	8.6	7.8	8.1
California ¹	13,783.4	14,037.3	14,066.4	765.8	699.4	814.9	5.6	5.0	5.8
Anaheim-Santa Ana	1,303.9	1,332.6	1,335.5	39.9	38.0	44.8	3.1	2.9	3.4
Bakersfield	226.4	230.5	237.4	20.3	21.8	25.8	9.0	9.5	10.9
Fresno	299.1	302.4	313.1	29.2	33.2	38.3	9.8	11.0	12.2
Los Angeles-Long Beach	4,206.0	4,096.8	4,109.3	265.0	174.6	213.1	6.3	4.3	5.2
Modesto	152.4	154.6	163.6	19.2	20.5	24.4	12.6	13.3	14.9
Oakland	1,032.8	1,070.6	1,058.2	49.8	47.1	55.1	4.8	4.4	5.2
Oxnard-Ventura	337.1	357.1	354.0	15.0	17.2	18.7	4.5	4.8	5.3
Riverside-San Bernardino	908.7	977.7	969.7	46.9	50.9	59.9	5.2	5.2	6.2
Sacramento	674.9	718.9	713.5	34.7	37.0	42.1	5.1	5.1	5.9
San Diego	1,061.1	1,123.5	1,113.5	45.1	45.3	53.0	4.3	4.0	4.8
San Francisco	870.4	900.8	888.7	31.9	30.6	34.9	3.7	3.4	3.9
San Jose	808.8	824.6	825.4	35.4	31.8	37.3	4.4	3.9	4.5
Santa Barbara-Santa Maria-Lompoc	178.6	185.1	183.0	6.8	8.3	8.5	3.8	4.5	4.6
Santa Rosa-Petaluma	187.9	199.8	196.4	8.3	9.0	10.2	4.4	4.5	5.2
Stockton	197.3	194.1	202.9	17.8	18.8	21.6	9.0	9.7	10.6
Vallejo-Fairfield-Napa	183.9	190.6	193.5	9.8	10.2	11.7	5.4	5.3	6.0
Colorado	1,721.7	1,701.6	1,691.6	136.8	116.4	108.9	7.9	6.8	6.4
Boulder-Longmont	130.8	130.2	130.8	7.5	6.3	5.9	5.7	4.8	4.5
Denver	900.1	883.2	884.6	65.6	53.7	51.9	7.3	6.1	5.9
Connecticut	1,752.6	1,705.6	1,723.9	55.4	43.4	42.2	3.2	2.5	2.4
Bridgeport-Milford	231.1	223.9	226.6	8.9	7.3	6.9	3.8	3.2	3.1
Hartford	422.9	413.5	419.4	12.0	9.4	9.3	2.8	2.3	2.2
New Haven-Meriden	272.0	267.4	268.0	8.4	6.7	6.3	3.1	2.5	2.3
Stamford	118.2	115.1	116.8	2.7	2.2	2.0	2.3	1.9	1.7
Waterbury	102.7	98.3	98.8	4.4	3.2	2.9	4.3	3.2	3.0
Delaware	329.9	343.6	346.6	9.2	11.1	10.1	2.8	3.2	2.9
Wilmington	286.4	298.1	300.0	9.1	10.0	10.0	3.2	3.4	3.3
District of Columbia	330.1	333.3	337.3	20.4	17.2	16.5	6.2	5.1	4.9
Washington	2,115.2	2,176.8	2,202.3	66.0	59.0	60.2	3.1	2.7	2.7
Florida ¹	5,878.7	6,035.4	6,103.9	297.3	304.0	288.2	5.1	5.0	4.7
Daytona Beach	146.6	153.4	154.0	6.3	7.2	6.6	4.3	4.7	4.3
Fort Lauderdale-Hollywood-Pompano Beach	615.2	639.2	644.7	25.1	27.7	25.9	4.1	4.3	4.0
Fort Myers-Cape Coral	131.4	143.1	143.9	4.7	5.3	4.8	3.6	3.7	3.3
Jacksonville	442.8	458.6	467.6	22.4	24.0	23.7	5.1	5.2	5.1
Melbourne-Titusville-Palm Bay	173.9	181.3	182.4	9.1	8.9	8.8	5.2	4.9	4.8
Miami-Hialeah	913.0	918.5	923.5	52.5	52.1	47.2	5.8	5.7	5.1
Orlando	556.7	568.5	582.0	25.6	25.0	28.1	4.6	4.4	4.8
Pensacola	149.0	149.7	152.1	8.8	9.1	8.8	5.9	6.1	5.8
Sarasota	116.2	122.3	123.3	4.0	4.6	3.5	3.4	3.7	2.9
Tallahassee	124.0	125.0	127.6	4.9	4.8	5.1	3.9	3.9	4.0
Tampa-St. Petersburg-Clearwater	963.1	977.6	991.5	44.2	46.5	43.0	4.6	4.8	4.3
West Palm Beach-Boca Raton-Delray Beach	392.8	413.7	412.5	19.9	21.1	17.7	5.1	5.1	4.3

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Georgia	3,056.4	3,088.6	3,142.5	170.2	182.2	190.3	5.6	5.9	6.1
Athens	72.3	72.4	74.1	3.0	3.1	3.2	4.1	4.3	4.3
Atlanta	1,440.3	1,465.0	1,485.7	68.2	76.0	79.2	4.7	5.2	5.3
Augusta	179.5	179.6	182.1	11.1	11.4	12.1	6.2	6.4	6.6
Columbus	100.3	99.8	101.9	6.3	6.9	7.0	6.3	6.9	6.8
Macon-Warner Robins	127.8	128.8	131.1	6.7	7.2	7.9	5.2	5.6	6.1
Savannah	110.9	111.5	111.8	6.6	8.1	8.1	5.9	7.3	7.2
Hawaii	516.0	530.5	522.2	20.8	15.3	15.5	4.0	2.9	3.0
Honolulu	384.5	396.5	389.8	13.6	10.1	10.3	3.5	2.5	2.7
Idaho	473.0	466.1	472.7	36.8	33.6	29.2	7.8	7.2	6.2
Boise City	102.9	104.0	104.6	5.9	4.8	4.2	5.7	4.6	4.0
Illinois	5,719.4	5,684.3	5,731.0	468.7	421.0	394.6	8.2	7.4	6.9
Aurora-Elgin	171.6	173.9	174.8	11.3	9.7	8.7	6.6	5.6	5.0
Bloomington-Normal	64.9	66.1	65.8	3.5	3.5	3.6	5.4	5.3	5.5
Champaign-Urbana-Rantoul	88.2	86.9	88.0	4.2	3.8	3.5	4.8	4.4	4.0
Chicago	3,137.8	3,138.6	3,155.5	234.1	215.1	205.3	7.5	6.9	6.5
Davenport-Rock Island-Moline	182.5	178.6	179.9	14.3	13.3	12.5	7.8	7.5	6.9
Decatur	58.3	56.9	57.1	6.3	5.8	5.2	10.8	10.3	9.0
Joliet	194.3	191.7	192.2	17.3	15.7	14.7	8.9	8.2	7.6
Lake County	261.4	266.9	269.4	13.3	12.1	11.5	5.1	4.5	4.3
Peoria	152.7	149.7	152.4	14.0	10.7	10.4	9.2	7.2	6.8
Rockford	148.8	143.8	144.6	17.5	11.8	10.6	11.8	8.2	7.3
Springfield	107.3	106.0	107.0	6.0	5.7	5.2	5.6	5.4	4.9
Indiana	2,739.1	2,739.6	2,793.3	171.5	129.5	125.6	6.3	4.7	4.5
Anderson	59.1	57.7	58.4	3.9	2.9	3.0	6.6	5.0	5.1
Bloomington	57.4	59.8	60.1	2.6	1.8	2.0	4.6	2.9	3.3
Elkhart-Goshen	93.8	93.9	96.6	5.5	2.7	3.1	5.9	2.9	3.2
Evansville	141.6	140.1	142.3	10.8	8.1	8.2	7.6	5.8	5.7
Fort Wayne	193.3	196.1	200.1	9.9	8.5	8.0	5.1	4.3	4.0
Gary-Hammond	253.0	249.5	252.1	23.6	15.4	13.9	9.3	6.2	5.5
Indianapolis	647.8	654.5	669.9	32.5	25.6	25.8	5.0	3.9	3.9
Lafayette	63.0	65.8	64.9	2.2	1.9	2.1	3.6	2.9	3.3
Muncie	60.2	59.7	60.3	4.0	3.0	2.9	6.6	5.1	4.9
South Bend-Mishawaka	126.3	127.1	129.4	6.6	5.7	5.5	5.2	4.5	4.3
Terre Haute	58.0	59.2	59.1	3.7	3.4	3.3	6.3	5.7	5.5
Iowa	1,461.8	1,462.0	1,483.4	75.6	65.3	58.5	5.2	4.5	3.9
Cedar Rapids	92.5	96.0	96.0	4.7	3.6	3.2	5.1	3.8	3.3
Des Moines	221.0	227.3	229.0	9.7	8.2	7.3	4.4	3.6	3.2
Dubuque	43.7	45.2	45.8	2.3	2.3	2.1	5.3	5.2	4.6
Sioux City	61.7	60.5	61.0	3.7	3.3	3.0	6.0	5.4	4.8
Waterloo-Cedar Falls	69.4	69.1	69.7	5.7	4.0	3.8	8.2	5.8	5.5
Kansas	1,278.0	1,290.2	1,301.7	60.5	53.9	52.7	4.7	4.2	4.0
Topeka	90.0	93.9	94.4	3.8	3.5	3.5	4.2	3.8	3.7
Wichita	250.9	255.9	256.6	12.3	11.4	11.3	4.9	4.5	4.4
Kentucky	1,681.7	1,707.7	1,715.8	144.9	146.5	134.1	8.6	8.6	7.8
Lexington-Fayette	180.9	189.4	188.5	9.4	11.2	8.6	5.2	5.9	4.6
Louisville	488.4	509.8	515.5	34.5	32.0	30.5	7.1	6.3	5.9
Owensboro	44.2	44.0	44.9	4.8	3.6	3.7	10.8	8.3	8.3
Louisiana	1,981.7	1,889.3	1,898.4	248.0	202.6	199.5	12.5	10.7	10.5
Alexandria	62.0	59.9	59.7	6.5	5.9	5.7	10.4	9.8	9.6
Baton Rouge	267.6	258.9	259.0	27.2	22.8	22.6	10.2	8.8	8.7
Houma-Thibodaux	75.3	69.1	69.9	13.0	8.2	8.0	17.3	11.9	11.4
Lafayette	101.8	96.2	96.0	14.0	9.5	9.1	13.8	9.9	9.5
Monroe	71.7	67.2	67.3	7.4	7.0	6.7	10.3	10.4	10.0
New Orleans	608.7	586.4	587.6	64.0	54.8	55.1	10.5	9.4	9.4
Shreveport	170.5	163.8	165.5	19.0	17.1	16.6	11.1	10.4	10.0
Maine	582.2	591.3	587.8	24.9	25.9	22.5	4.3	4.4	3.8
Lewiston-Auburn	41.7	41.4	41.0	2.2	1.8	1.6	5.2	4.4	4.0
Portland	122.1	125.0	123.7	2.8	2.5	2.6	2.3	2.0	2.1

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Maryland	2,412.6	2,406.4	2,435.6	98.5	95.9	100.1	4.1	4.0	4.1
Baltimore	1,169.8	1,156.6	1,170.8	53.0	50.3	52.6	4.5	4.4	4.5
Massachusetts ¹	3,062.8	3,135.4	3,105.8	103.3	91.6	83.8	3.4	2.9	2.7
Boston	1,522.1	1,556.4	1,540.2	44.2	39.3	36.2	2.9	2.5	2.3
Brockton	95.5	99.1	97.6	3.7	3.3	3.1	3.9	3.3	3.2
Fall River	75.0	75.7	74.6	4.2	3.7	3.2	5.6	4.9	4.3
Fitchburg-Leominster	46.8	45.8	45.1	2.2	1.5	1.4	4.7	3.3	3.1
Lawrence-Haverhill	183.4	186.3	184.3	8.7	6.8	6.2	4.8	3.6	3.4
Lowell	148.7	151.7	149.0	5.3	4.3	4.2	3.6	2.8	2.8
New Bedford	83.6	86.8	85.4	4.5	4.0	3.4	5.4	4.6	4.0
Springfield	248.4	256.1	253.1	8.4	7.1	6.7	3.4	2.8	2.6
Worcester	211.6	221.0	218.9	6.4	5.7	5.6	3.0	2.6	2.5
Michigan ¹	4,519.5	4,510.9	4,507.2	368.6	339.7	295.1	8.2	7.5	6.5
Ann Arbor	154.5	163.1	162.2	6.8	6.0	5.5	4.4	3.7	3.4
Battle Creek	63.8	63.8	63.8	4.8	4.7	3.9	7.5	7.3	6.2
Benton Harbor	77.5	78.3	77.9	5.9	5.2	4.6	7.6	6.7	5.9
Detroit	2,192.3	2,165.2	2,168.0	179.0	160.1	145.6	8.2	7.4	6.7
Flint	200.3	198.3	197.5	24.6	28.6	26.0	12.3	14.4	13.2
Grand Rapids	346.0	349.9	349.9	21.0	17.8	15.3	6.1	5.1	4.4
Kalamazoo	112.0	115.4	113.9	5.8	5.1	4.6	5.1	4.4	4.1
Lansing-East Lansing	239.2	240.1	238.9	15.9	13.5	11.3	6.6	5.6	4.7
Muskegon	68.1	66.9	67.0	7.1	5.9	5.1	10.4	8.8	7.7
Saginaw-Bay City-Midland	183.5	184.4	183.4	16.7	14.0	11.7	9.1	7.6	6.4
Minnesota	2,261.8	2,312.6	2,335.0	116.8	87.0	75.3	5.2	3.8	3.2
Duluth	107.5	106.4	106.7	9.8	6.8	5.6	9.1	6.4	5.3
Minneapolis-St. Paul	1,336.5	1,371.3	1,384.9	56.6	41.5	38.7	4.2	3.0	2.8
Rochester	56.9	58.5	59.0	2.2	1.5	1.4	3.9	2.5	2.3
St. Cloud	92.2	95.9	96.9	5.5	4.1	3.2	6.0	4.3	3.3
Mississippi	1,155.9	1,153.2	1,151.7	114.9	84.4	81.4	9.9	7.3	7.1
Jackson	198.9	202.9	203.0	14.4	10.7	10.4	7.2	5.3	5.1
Missouri	2,600.2	2,555.0	2,582.6	160.4	120.0	119.0	6.2	4.7	4.6
Kansas City	838.2	834.4	835.2	46.8	35.4	35.8	5.6	4.2	4.3
St. Louis	1,276.0	1,252.6	1,264.5	93.3	71.4	71.5	7.3	5.7	5.7
Springfield	121.5	122.7	123.8	5.4	4.4	4.2	4.5	3.6	3.4
Montana	408.6	408.1	407.5	28.9	31.6	28.0	7.1	7.7	6.9
Nebraska	813.0	794.2	805.4	39.8	26.6	26.7	4.9	3.3	3.3
Lincoln	121.4	119.9	121.8	4.1	2.8	4.1	3.3	2.3	3.4
Omaha	323.2	314.7	319.1	17.0	11.7	11.4	5.3	3.7	3.6
Nevada	559.3	574.8	577.2	34.9	33.9	30.9	6.2	5.9	5.4
Las Vegas	323.9	335.3	335.8	20.8	21.1	19.3	6.4	6.3	5.8
Reno	137.7	140.4	140.8	7.8	7.3	6.6	5.7	5.2	4.7
New Hampshire	584.2	602.0	598.8	14.8	13.8	12.4	2.5	2.3	2.1
Nashua	96.5	99.4	99.4	2.6	2.3	2.4	2.6	2.4	2.4
Portsmouth-Dover-Rochester	130.7	132.5	134.2	2.8	2.0	2.0	2.1	1.5	1.5
New Jersey ¹	4,042.8	3,953.8	3,965.5	167.8	125.1	148.8	4.2	3.2	3.8
Atlantic City	177.3	165.5	171.6	9.5	8.0	9.0	5.4	4.9	5.3
Bergen-Passaic	733.7	721.6	719.8	26.7	19.1	22.8	3.6	2.6	3.2
Jersey City	272.8	266.2	267.7	18.7	15.4	18.3	6.9	5.8	6.8
Middlesex-Somerset-Hunterdon	563.9	559.6	558.7	17.1	12.1	14.9	3.0	2.2	2.7
Monmouth-Ocean	482.1	471.6	478.9	15.6	12.2	15.0	3.2	2.6	3.1
Newark	983.8	956.8	957.7	43.3	31.0	37.3	4.4	3.2	3.9
Trenton	174.8	172.5	172.0	6.0	4.2	4.5	3.4	2.4	2.6
New Mexico	685.2	692.1	690.2	62.2	58.0	55.4	9.1	8.4	8.0
Albuquerque	260.9	265.2	265.5	16.4	15.8	15.6	6.3	6.0	5.9
Las Cruces	56.7	56.6	56.5	4.3	4.2	4.1	7.5	7.4	7.3
Santa Fe	65.5	67.4	66.7	4.0	3.8	3.6	6.1	5.6	5.5

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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
New York¹	8,304.6	8,224.2	8,269.8	380.4	282.4	340.4	4.6	3.4	4.1
Albany-Schenectady-Troy	409.7	407.1	407.0	15.1	11.9	14.4	3.7	2.9	3.5
Binghamton	123.2	122.9	122.8	5.0	3.8	4.4	4.0	3.1	3.6
Buffalo	437.0	429.5	433.1	23.3	18.2	21.1	5.3	4.2	4.9
Elmira	40.1	41.2	41.8	1.6	1.2	1.6	4.1	3.0	3.8
Nassau-Suffolk	1,402.9	1,387.2	1,387.7	44.3	33.3	42.1	3.2	2.4	3.0
New York	3,811.8	3,774.0	3,797.5	189.1	133.2	164.7	5.0	3.5	4.3
New York City	3,153.0	3,118.7	3,142.5	169.0	119.4	147.1	5.4	3.8	4.7
Orange County	128.0	129.0	129.2	4.6	3.6	4.3	3.6	2.8	3.3
Poughkeepsie	123.1	125.0	125.1	3.4	2.4	3.3	2.8	1.9	2.7
Rochester	484.8	479.1	480.4	20.9	14.8	17.7	4.3	3.1	3.7
Syracuse	312.2	311.3	308.7	18.9	14.2	16.2	6.1	4.6	5.3
Utica-Rome	132.7	131.4	132.1	6.7	5.2	5.9	5.0	4.0	4.5
North Carolina¹	3,230.8	3,251.5	3,291.4	135.1	109.4	109.4	4.2	3.4	3.3
Asheville	85.5	85.9	87.1	3.5	2.5	2.8	4.1	2.9	3.3
Charlotte-Gastonia-Rock Hill	619.8	635.9	643.3	22.8	19.1	18.8	3.7	3.0	2.9
Greensboro-Winston-Salem-High Point	511.1	512.0	516.6	18.2	14.4	14.5	3.6	2.8	2.8
Raleigh-Durham	388.3	396.6	395.2	11.1	9.6	9.8	2.9	2.4	2.5
North Dakota	333.3	325.1	329.5	15.5	15.0	12.3	4.6	4.6	3.7
Bismarck	44.6	43.9	44.3	2.0	2.1	1.8	4.5	4.8	4.0
Fargo-Moorhead	85.4	86.5	87.2	2.7	2.6	1.9	3.2	3.0	2.2
Grand Forks	37.0	36.6	37.4	1.2	1.3	1.2	3.3	3.4	3.3
Ohio¹	5,275.3	5,256.9	5,242.8	372.3	315.8	301.6	7.1	6.0	5.8
Akron	321.7	321.0	320.0	23.5	19.8	18.5	7.3	6.2	5.8
Cincinnati	744.4	753.8	753.8	41.4	38.8	39.5	5.6	5.2	5.2
Cleveland	925.3	926.4	922.4	58.0	51.5	50.5	6.3	5.6	5.5
Columbus	696.1	703.0	701.4	39.1	34.1	32.9	5.6	4.8	4.7
Dayton-Springfield	464.3	462.8	459.8	26.8	22.9	21.9	5.8	5.0	4.8
Toledo	310.3	310.9	310.1	22.8	17.7	17.0	7.3	5.7	5.5
Youngstown-Warren	223.0	219.3	219.3	21.5	15.8	14.8	9.7	7.2	6.8
Oklahoma	1,584.8	1,528.0	1,523.0	122.0	96.2	92.2	7.7	6.3	6.1
Enid	30.5	29.7	29.6	2.2	1.6	1.6	7.3	5.3	5.3
Lawton	50.4	49.8	50.1	2.4	2.8	2.6	4.8	5.5	5.2
Oklahoma City	512.8	497.3	498.3	31.6	25.4	24.5	6.2	5.1	4.9
Tulsa	349.7	338.7	338.3	30.4	24.0	23.1	8.7	7.1	6.8
Oregon	1,382.0	1,429.8	1,425.4	79.8	87.6	83.9	5.8	6.1	5.9
Eugene-Springfield	138.4	142.4	142.3	7.2	7.8	7.7	5.2	5.5	5.4
Portland	631.5	652.9	649.4	31.6	31.6	31.7	5.0	4.8	4.9
Salem	124.8	131.1	130.4	7.7	8.8	7.9	6.2	6.7	6.1
Pennsylvania¹	5,594.9	5,656.1	5,634.7	300.7	260.0	279.5	5.4	4.6	5.0
Allentown-Bethlehem	317.0	317.2	316.9	15.8	12.2	13.0	5.0	3.8	4.1
Alltoona	58.3	58.3	59.0	4.2	3.6	4.0	7.2	6.2	6.8
Beaver County	61.9	61.6	61.6	5.4	5.2	5.5	8.7	8.5	8.9
Erie	126.6	126.2	125.9	9.1	7.3	7.7	7.2	5.8	6.1
Harrisburg-Lebanon-Carlisle	308.4	313.5	314.3	11.7	10.5	12.2	3.8	3.4	3.9
Johnstown	92.4	92.3	92.8	7.0	6.0	6.5	7.6	6.5	7.0
Lancaster	210.0	214.1	215.8	7.3	6.3	7.5	3.5	3.0	3.5
Philadelphia	2,373.3	2,386.9	2,378.9	104.3	86.5	99.5	4.4	3.6	4.2
Pittsburgh	938.5	941.4	934.6	58.5	52.1	51.4	6.2	5.5	5.5
Reading	168.7	174.7	173.3	8.9	7.6	8.3	5.3	4.4	4.8
Scranton-Wilkes-Barre	343.3	346.3	344.6	21.9	18.2	19.3	6.4	5.3	5.6
Williamsport	57.3	61.0	59.4	2.9	2.8	2.8	5.1	4.6	4.8
York	206.2	212.6	214.2	9.6	8.0	9.2	4.7	3.7	4.3
Rhode Island	522.8	524.4	524.7	20.0	17.6	14.4	3.8	3.4	2.7
Pawtucket-Woonsocket-Attleboro	168.9	168.1	167.7	7.5	6.5	5.4	4.4	3.9	3.2
Providence	338.8	343.6	342.7	12.6	11.2	9.2	3.7	3.3	2.7
South Carolina	1,642.1	1,648.6	1,673.4	92.0	74.9	77.0	5.6	4.5	4.6
Charleston	223.1	225.1	229.0	10.0	8.8	9.2	4.5	3.9	4.0
Columbia	228.3	235.2	239.0	8.7	7.8	7.9	3.8	3.3	3.3
Greenville-Spartanburg	325.3	323.6	328.0	15.2	11.0	11.3	4.7	3.4	3.4
South Dakota	360.6	358.5	368.5	13.0	9.8	11.0	3.6	2.7	3.0
Rapid City	40.0	39.8	41.2	1.5	1.3	1.2	3.6	3.1	2.9
Sioux Falls	72.6	72.3	73.9	2.4	2.3	2.3	3.3	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		
	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P	May 1987	Apr. 1988	May 1988 ^P
Tennessee	2,328.3	2,374.4	2,378.5	147.2	125.4	119.7	6.3	5.3	5.0
Chattanooga	205.5	211.8	214.4	11.8	10.6	11.3	5.8	5.0	5.3
Johnson City-Kingsport-Bristol	213.4	220.4	221.9	14.5	11.4	11.1	6.8	5.2	5.0
Knoxville	281.7	283.5	283.5	16.7	15.4	13.4	5.9	5.4	4.7
Memphis LMA	441.1	454.2	456.3	25.0	20.7	20.6	5.7	4.6	4.5
Nashville	518.8	517.4	519.3	20.9	21.1	20.5	4.0	4.1	4.0
Texas¹	8,337.1	8,235.0	8,333.8	717.5	577.0	604.6	8.6	7.0	7.3
Abilene	54.9	53.9	54.4	4.9	3.3	3.6	8.9	6.2	6.6
Amarillo	100.6	99.5	101.2	6.5	5.4	5.8	6.5	5.4	5.8
Austin	436.9	426.2	432.6	29.0	24.0	26.6	6.6	5.6	6.1
Beaumont-Port Arthur	164.6	159.3	161.5	21.6	16.4	16.9	13.1	10.3	10.5
Brazoria	81.6	81.9	82.7	7.8	6.6	6.8	9.6	8.1	8.2
Brownsville-Harlingen	97.0	97.2	98.0	13.8	12.8	12.7	14.3	13.2	13.0
Bryan-College Station	57.7	57.4	57.4	3.5	2.4	2.6	6.1	4.1	4.5
Corpus Christi	164.7	161.9	163.3	20.3	15.3	16.2	12.3	9.4	9.9
Dallas	1,459.2	1,448.1	1,466.5	92.4	80.5	84.7	6.3	5.6	5.8
El Paso	232.8	235.7	238.0	25.3	23.7	24.5	10.9	10.1	10.3
Fort Worth-Arlington	681.6	675.8	682.0	46.8	41.0	43.6	6.9	6.1	6.4
Galveston-Texas City	113.1	107.2	108.9	11.9	9.5	9.8	10.5	8.9	9.0
Houston	1,620.1	1,586.8	1,608.8	153.8	106.7	113.8	9.5	6.7	7.1
Killeen-Temple	93.9	93.9	95.6	7.4	6.8	7.2	7.9	7.3	7.6
Laredo	45.8	46.0	46.1	7.0	6.3	5.9	15.3	13.7	12.8
Longview-Marshall	79.8	78.4	79.2	8.7	6.5	6.8	10.9	8.3	8.5
Lubbock	113.3	112.8	114.3	7.2	5.7	6.2	6.3	5.1	5.4
McAllen-Edinburg-Mission	146.0	146.7	148.5	23.5	23.0	22.4	16.1	15.6	15.1
Midland	51.1	49.2	49.7	5.0	3.0	3.0	9.8	6.0	6.0
San Angelo	45.9	45.0	45.8	3.1	2.5	2.8	6.7	5.5	6.0
San Antonio	614.4	619.4	628.4	48.9	43.8	49.2	8.0	7.1	7.8
Sherman-Denison	49.6	49.6	50.4	4.1	3.0	3.1	8.2	6.1	6.1
Texarkana	57.8	58.2	58.7	4.6	4.4	4.9	8.0	7.6	8.3
Waco	93.3	93.0	93.7	7.4	6.3	6.6	7.9	6.7	7.1
Wichita Falls	58.4	57.6	58.3	4.7	3.3	3.6	8.1	5.8	6.1
Utah	763.3	755.6	750.4	50.1	39.5	37.4	6.6	5.2	5.0
Provo-Orem	97.0	101.0	95.8	7.1	4.5	4.0	7.4	4.4	4.2
Salt Lake City-Ogden	501.8	497.5	496.5	29.6	24.4	23.3	5.9	4.9	4.7
Vermont	292.4	298.3	295.0	10.4	10.1	7.8	3.6	3.4	2.7
Burlington	73.9	76.1	76.7	2.0	1.3	1.4	2.8	1.8	1.9
Virginia	2,990.0	3,064.0	3,116.8	122.7	106.0	112.0	4.1	3.5	3.6
Charlottesville	65.6	69.1	69.1	1.9	1.6	1.5	3.0	2.2	2.2
Danville	50.5	51.4	52.9	3.0	3.4	3.4	5.9	6.6	6.5
Lynchburg	71.9	71.7	72.9	3.5	2.9	3.4	4.9	4.1	4.6
Norfolk-Virginia Beach-Newport News	597.7	610.1	623.7	27.3	24.3	25.7	4.6	4.0	4.1
Richmond-Petersburg	427.8	439.9	446.8	15.9	13.6	14.7	3.7	3.1	3.3
Roanoke	119.4	117.9	120.5	4.5	4.0	4.6	3.8	3.4	3.8
Washington	2,247.5	2,323.4	2,345.5	165.2	148.5	138.4	7.3	6.4	5.9
Seattle	987.7	1,041.3	1,050.3	58.5	53.1	50.4	5.9	5.1	4.8
West Virginia	754.0	740.8	751.9	81.0	71.5	66.5	10.7	9.7	8.8
Charleston	117.2	114.8	116.3	10.8	9.2	8.8	9.2	8.0	7.5
Huntington-Ashland	127.8	125.3	126.0	13.2	10.7	9.9	10.4	8.5	7.9
Parkersburg-Marietta	72.7	71.1	70.9	6.5	5.1	4.6	8.9	7.2	6.5
Wheeling	72.4	71.1	71.4	6.7	6.4	5.6	9.2	9.1	7.8
Wisconsin	2,493.7	2,493.3	2,528.1	144.0	116.2	102.6	5.8	4.7	4.1
Appleton-Oshkosh-Neenah	163.8	165.2	167.6	9.7	6.9	6.3	5.9	4.2	3.8
Eau Claire	71.4	72.6	74.0	4.0	3.2	2.9	5.5	4.4	3.9
Green Bay	104.8	105.2	106.5	6.1	4.7	4.3	5.8	4.5	4.1
Janesville-Beloit	71.8	71.7	72.5	5.5	3.5	3.3	7.6	4.9	4.5
Kenosha	55.0	54.6	54.9	3.7	2.5	2.3	6.8	4.5	4.1
La Crosse	53.6	55.3	55.1	2.6	2.2	1.7	4.8	3.9	3.2
Madison	214.8	218.2	220.2	7.8	6.1	5.6	3.6	2.8	2.5
Milwaukee	735.3	740.2	750.8	38.5	29.9	28.0	5.2	4.0	3.7
Racine	85.7	85.8	86.7	5.7	4.1	3.7	6.6	4.7	4.2
Wausau	58.9	59.5	60.1	3.8	3.1	2.6	6.4	5.1	4.3
Wyoming	248.0	229.8	233.1	20.9	14.9	13.0	8.4	6.5	5.6

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 1987 have been

benchmarked to 1987 Current Population Survey annual averages. Except in the 11 States designated by footnote 1, estimates for 1988 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 over about 55,800 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 over 300,000 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 16 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 55,800 occupied units are eligible for interview. About 2,600 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 55,800 occupied units, there are 11,500 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 some time 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. 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.) A sample reduction of about 4,000 households was implemented in April 1988.

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	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	1330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	2333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981	629	62,200	2,800	12,000
May 1981 to Dec. 1984	629	57,800	2,500	11,000
Jan. 1985 to Mar. 1988	729	57,000	2,500	11,000
Apr. 1988 to present	729	53,200	2,600	11,500

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 using the two most recent July 1 estimates, 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 957 of that series. A description of the age estimates methodology is available in Report 1010 of that series.

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	275	212
Employed	293	224
Unemployed	136	140
Men, 20 years and over:		
Civilian labor force	173	151
Employed	186	163
Unemployed	93	95
Women, 20 years and over:		
Civilian labor force	211	155
Employed	212	160
Unemployed	83	87
Both sexes, 16 to 19 years:		
Civilian labor force	88	94
Employed	92	102
Unemployed	59	66
Black, 16 years and over:		
Civilian labor force	94	73
Employed	104	79
Unemployed	68	71
Men, 20 years and over:		
Civilian labor force	59	51
Employed	64	57
Unemployed	44	47
Women, 20 years and over:		
Civilian labor force	76	50
Employed	76	54
Unemployed	45	48
Both sexes, 16 to 19 years:		
Civilian labor force	36	40
Employed	33	38
Unemployed	30	33

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 174,000. The 68-percent confidence interval as shown by these data is from 11,826,000 to 12,174,000. 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 129,000.

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	Occupation—Continued		
Men, 20 years and over . . . . .	.15	.15	Precision production, craft, and repair	0.32	0.36
Women, 20 years and over . . . . .	.16	.17	Machine operators, assemblers, and inspectors . . . . .	.49	.55
Both sexes, 16 to 19 years . . . . .	.67	.81	Transportation and material moving . . . . .	.59	.66
White workers . . . . .	.11	.12	Handlers, equipment cleaners, helpers, and laborers . . . . .	.72	.82
Black workers . . . . .	.51	.54	Farming, forestry, and fishing . . . . .	.68	.76
Married men, spouse present . . . . .	.15	.17	Industry		
Married women, spouse present . . . . .	.19	.21	Nonagricultural private wage and salary workers . . . . .	.12	.13
Full-time workers . . . . .	.12	.12	Mining	1.63	1.86
Part-time workers . . . . .	.34	.42	Construction . . . . .	.65	.75
Unemployed 15 weeks and over . . . . .	.06	.07	Manufacturing . . . . .	.26	.29
Occupation			Durable goods . . . . .	.33	.37
Executive, administrative, and managerial . . . . .	.22	.24	Nondurable goods . . . . .	.42	.47
Professional specialty . . . . .	.19	.21	Transportation, communications, and public utilities . . . . .	.42	.48
Technicians and related support . . . . .	.47	.52	Wholesale and retail trade . . . . .	.27	.30
Sales . . . . .	.29	.33	Finance and services . . . . .	.20	.22
Administrative support, including clerical . . . . .	.23	.26	Government workers . . . . .	.23	.25
Private household	1.18	1.33	Agricultural wage and salary workers	1.16	1.32
Protective service . . . . .	.76	.85			
Service, except private household and protective . . . . .	.39	.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 2.9 percent of a total of 112,440,000 employed persons are employed in agriculture. The standard error on an estimate of 2.9 percent with a base of 112,440,000 is obtained from table H (0.08 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 2.9 percent is then approximately $0.08 \times 1.26 = 0.10$ 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 6.2 percent, based on a total of 119,865,000 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	15	11	12	12	12	12	12	11	10
100	21	16	17	17	17	17	16	15	14
500	47	36	38	37	37	36	32	34	31
1,000	66	51	53	52	51	50	35	49	43
2,000	93	72	73	74	70	68	-	68	58
4,000	131	101	97	104	92	86	-	95	73
6,000	159	123	110	126	104	92	-	115	76
8,000	182	141	116	145	109	88	-	132	69
10,000	202	156	-	161	108	72	-	145	47
15,000	-	188	-	193	74	-	-	172	-
20,000	-	213	-	219	-	-	-	191	-
30,000	-	-	-	259	-	-	-	215	-
40,000	-	-	-	286	-	-	-	225	-
50,000	-	-	-	306	-	-	-	222	-
60,000	-	-	-	319	-	-	-	206	-
70,000	-	-	-	326	-	-	-	172	-
80,000	-	-	-	327	-	-	-	107	-
100,000	-	-	-	314	-	-	-	-	-
120,000	-	-	-	274	-	-	-	-	-
140,000	-	-	-	195	-	-	-	-	-

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 . . .	13	14	13	14	9	9	14	14
100 . . .	18	20	19	20	12	12	20	19
500 . . .	40	45	41	38	27	27	43	37
1,000 . . .	56	63	57	41	39	38	59	39
2,000 . . .	78	89	76		55	52	80	-
4,000 . . .	108	124	95		77	68	100	
6,000 . . .	129	150	99		93	78	104	
8,000 . . .	144		89		107	82	94	
10,000 . . .	157		58		119	81	65	
15,000 . . .	177		-		143	59	-	
20,000 . . .	184				163	-		
30,000 . . .					192			
40,000 . . .					213			
50,000 . . .					228			
60,000 . . .					238			
70,000 . . .					244			
80,000 . . .					245			
100,000 . . .					237			
120,000 . . .					212			
140,000 . . .					160			

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 7.0 percent, based on a total of 117,834,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.6 percent with a base of 118,850,000, is obtained from table F (0.11 percentage point). The appropriate factor, then, from table J is 1.40. The approximate standard error on the change of 0.8 percent is then given by 0.11 x 1.40 = 0.15 percentage point.

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

Standard error of year-to-year change =

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

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:

$$(216,000)^2 + (221,000)^2 - 2(.30) (216,000) (221,000),$$

or about 259,000.

Table F. Standard errors for unemployment rates

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
		2	5	10	15	20	25	30	35	50
50	2.28	3.20	4.98	6.85	8.13	9.09	9.82	10.36	10.75	11.12
100	1.61	2.26	3.52	4.84	5.75	6.43	6.94	7.33	7.60	7.87
500 . . . . .	.72	1.01	1.58	2.16	2.57	2.88	3.11	3.28	3.40	3.52
1,000 . . . . .	.51	.72	1.11	1.53	1.82	2.03	2.20	2.32	2.40	2.49
2,000 . . . . .	.36	.51	.79	1.08	1.29	1.44	1.55	1.64	1.70	1.76
4,000 . . . . .	.25	.36	.56	.77	.91	1.02	1.10	1.16	1.20	1.24
6,000 . . . . .	.21	.29	.45	.62	.74	.83	.90	.95	.98	1.02
10,000 . . . . .	.16	.23	.35	.48	.58	.64	.69	.73	.76	.79
20,000 . . . . .	.11	.16	.25	.34	.41	.45	.49	.52	.54	.56
60,000 . . . . .	.07	.09	.14	.20	.24	.26	.28	.30	.31	.32
100,000 . . . . .	.05	.07	.11	.15	.18	.20	.22	.23	.24	.25
120,000 . . . . .	.05	.07	.10	.14	.17	.19	.20	.21	.22	.23
140,000 . . . . .	.04	.06	.09	.13	.15	.17	.19	.20	.21	.21

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	2.53	3.57	5.60	7.83	9.47	10.79	11.91	12.87	13.71	15.67
100	1.79	2.52	3.96	5.53	6.69	7.63	8.42	9.10	9.69	11.08
500 . . . . .	.80	1.13	1.77	2.47	2.99	3.41	3.76	4.06	4.33	4.94
1,000 . . . . .	.57	.80	1.25	1.75	2.11	2.41	2.65	2.87	3.05	3.48
2,000 . . . . .	.40	.56	.88	1.23	1.49	1.70	1.87	2.02	2.15	2.44
4,000 . . . . .	.28	.40	.63	.87	1.05	1.20	1.32	1.42	1.51	1.70
6,000 . . . . .	.23	.33	.51	.71	.86	.97	1.07	1.15	1.22	1.37
10,000 . . . . .	.18	.25	.39	.55	.66	.75	.82	.88	.93	1.03
20,000 . . . . .	.13	.18	.28	.38	.46	.51	.56	.60	.62	
60,000 . . . . .	.07	.10	.16	.21	.24	.27	.28			
100,000 . . . . .	.06	.08	.12	.15	.17	.18				
120,000 . . . . .	.05	.07	.11	.14	.15					
140,000 . . . . .	.05	.07	.10							

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	2.34	3.29	5.12	7.05	8.39	9.40	10.18	10.77	11.21	11.75
100	1.65	2.33	3.62	4.99	5.94	6.65	7.20	7.62	7.93	8.31
500 . . . . .	.74	1.04	1.62	2.23	2.65	2.97	3.22	3.41	3.55	3.72
1,000 . . . . .	.52	.74	1.15	1.58	1.88	2.10	2.28	2.41	2.51	2.63
2,000 . . . . .	.37	.52	.81	1.12	1.33	1.49	1.61	1.70	1.77	1.86
4,000 . . . . .	.26	.37	.57	.79	.94	1.05	1.14	1.20	1.25	1.31
6,000 . . . . .	.21	.30	.47	.64	.77	.86	.93	.98	1.02	1.07
10,000 . . . . .	.17	.23	.36	.50	.59	.66	.72	.76	.79	.83
20,000 . . . . .	.12	.16	.26	.35	.42	.47	.51	.54	.56	.59
40,000 . . . . .	.08	.12	.18	.25	.30	.33	.36	.38	.40	.42
60,000 . . . . .	.07	.10	.15	.20	.24	.27	.29	.31	.32	.34
80,000 . . . . .	.06	.08	.13	.18	.21	.24	.25	.27	.28	.29
100,000 . . . . .	.05	.07	.11	.16	.19	.21	.23	.24	.25	.26
120,000 . . . . .	.05	.07	.10	.14	.17	.19	.21	.22	.23	.24
140,000 . . . . .	.04	.06	.10	.13	.16	.18	.19	.20	.21	.22
160,000 . . . . .	.04	.06	.09	.12	.15	.17	.18	.19	.20	.21

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	64	127	88
10,000	149	165	102	144	157	155		145	-
15,000	180	198	102	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		233	201	174		242	
50,000	296	301		-	160	100		249	
75,000	331	304			160				
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. These series are compiled only for aircraft

(SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing. The same concepts and estimation methods apply to these series as apply to the average hourly earnings series described above; the one difference between the 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 and SIC 3761 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 1987 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 1987

Industry	Benchmark	Estimate	Percent difference
Total	100,427	100,462	(1)
Mining	696	718	-3.2
Construction	4,531	4,599	-1.5
Manufacturing	18,810	18,897	-.5
Transportation and public utilities	5,274	5,275	(1)
Wholesale trade	5,763	5,725	.7
Retail trade	17,902	17,737	.9
Finance, insurance, and real estate	6,443	6,478	-.5
Services	23,754	23,723	.1
Government	17,254	17,310	-.3

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 1987¹

Industry	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	248,441	35,149,000	35
Mining	3,434	264,000	38
Construction	22,567	816,000	18
Manufacturing	49,214	9,593,000	51
Transportation and public utilities	11,807	2,109,000	40
Wholesale trade	21,802	922,000	16
Retail trade	44,982	3,580,000	20
Finance, insurance, and real estate	17,699	2,126,000	33
Services	54,782	5,463,000	23
Government:			
Federal ²	5,000	2,916,000	100
State	4,795	3,280,000	81
Local	15,161	6,276,000	61

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	.2	0.1	0.2
Mining	2.9	1.0	1.3
Construction	1.4	.2	.5
Manufacturing	.8	.1	.2
Durable goods	.9	.1	.3
Nondurable goods	.8	.1	.2
Transportation and public utilities	.3	.7	.6
Wholesale trade	.8	.2	.4
Retail trade	.9	.2	.4
Finance, insurance, and real estate	.3	.2	.4
Services	.2	.4	.6
Government ³	.5	—	—

¹ The average percent revision in employment for the 1983-87 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 as they occur. Additional industry detail may be obtained from the State agencies listed on the inside back cover of each issue. These statistics are based on the same

establishment reports used by BLS for preparing national estimates. For employment, the sum of the State figures may differ slightly from the equivalent official U.S. totals on a national basis, because some States have more recent benchmarks than others and because of the effects of differing industrial and geographic stratification.

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	89,600	89,100	Nondurable goods—Continued		
Total private	62,700	60,000	Chemicals and allied products	2,700	2,900
Goods-producing industries	22,400	20,800	Petroleum and coal products	1,200	1,100
Mining	4,700	4,400	Rubber and misc. plastics products	1,600	1,700
Oil and gas extraction	4,000	3,400	Leather and leather products	1,800	1,700
Construction	14,800	15,700	Service-producing industries	86,300	85,700
General building contractors	5,000	5,200	Transportation and public utilities	15,500	13,900
Manufacturing	19,200	19,300	Transportation	17,800	17,300
Durable goods	14,400	12,700	Communication and public utilities	6,800	6,400
Lumber and wood products	2,300	2,100	Wholesale trade	9,400	8,200
Furniture and fixtures	1,700	1,700	Durable goods	6,100	5,500
Stone, clay, and glass products	1,600	1,600	Nondurable goods	5,400	4,600
Primary metal industries	4,700	4,700	Retail trade	40,700	36,100
Blast furnaces and basic steel products	3,600	3,400	General merchandise stores	23,900	21,400
Fabricated metal products	2,500	2,300	Food stores	6,900	6,200
Machinery, except electrical	6,000	7,300	Automotive dealers and service stations	3,300	3,200
Electrical and electronic equipment	5,100	5,100	Eating and drinking places	10,900	10,300
Transportation equipment	8,100	7,400	Finance, insurance, and real estate	8,400	7,500
Motor vehicles and equipment	7,000	7,000	Finance	4,000	3,900
Instruments and related products	2,000	2,200	Insurance	3,800	3,100
Miscellaneous manufacturing	1,900	1,800	Real estate	4,800	3,800
Nondurable goods	8,900	8,500	Services	34,700	31,700
Food and kindred products	5,600	5,700	Business services	11,000	10,500
Tobacco manufactures	1,600	1,500	Health services	10,300	10,100
Textile mill products	1,800	1,700	Government	62,800	54,500
Apparel and other textile products	4,700	4,100	Federal	16,900	11,700
Paper and allied products	1,600	1,400	State	22,600	20,600
Printing and publishing	2,200	2,100	Local	34,900	32,400

NOTE: Data are based on differences from December 1982 through December 1987.

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 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.

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 1988 and projected data through March 1989. 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 1988. Seasonal adjustment factors to be used for current adjustment appear in the June 1988 issue of *Employment and Earnings*.

U.S. Department of Labor Bureau of Labor Statistics

REGION I - BOSTON John Fitzgerald Kennedy Federal Building Suite 1603 Boston, MA 02203	REGION II - NEW YORK 201 Varick Street New York, NY 10014	REGION III - PHILADELPHIA 3535 Market Street P.O. Box 13309 Philadelphia, PA 19101	REGION IV - ATLANTA Suite 540 1371 Peachtree Street, NE. Atlanta, GA 30367
REGION V - CHICAGO 9th Floor 230 S. Dearborn Street Chicago, IL 60604	REGION VI - DALLAS Room 221 525 Griffin Street Dallas, TX 75202	REGIONS VII and VIII - KANSAS CITY 15th Floor 911 Walnut Street Kansas City, MO 64106	REGIONS IX and X - SAN FRANCISCO 71 Stevenson Street P.O. Box 3766 San Francisco, CA 94119

COOPERATING STATE AGENCIES

Current Employment Statistics Program (CES), and State and Local Area Unemployment Statistics Program (LAUS)

BLS Region	
IV ALABAMA	-Research and Statistics Div., Depart. of Industrial Relations, Industrial Relations Building, Room 427, Montgomery 36130
X ALASKA	-Employment Security Division, Department of Labor, P.O. Box 25501, Juneau 99802
IX ARIZONA	-Department of Economic Security, 733-A, P.O. Box 6123, Phoenix 85005
VI ARKANSAS	-Employment Security Division, Department of Labor, State Capitol Mall, P.O. Box 2981, Little Rock 72203
IX CALIFORNIA	-Employment Data and Research Div., Employment Development Depart., P.O. Box 1679, Sacramento 95808.
VIII COLORADO	-Division of Employment and Training, 1330 Fox Street, Denver 80204
I CONNECTICUT	-Employment Security Division, Labor Department, 200 Folly Brook Boulevard, Wethersfield 06109
III DELAWARE	-Department of Labor, University Plaza Office Complex, P.O. Box 9029, Newark 19711
III DIST. OF COL.	-Division of Labor Market Information, Research and Analysis, Department of Employment Services, 500 C Street N.W., Room 411, Washington 20001
IV FLORIDA	-Bureau of Research and Information, Depart. of Labor and Employment Security, 2574 Seagate Drive, Tallahassee 32301
IV GEORGIA	-Department of Labor, 254 Washington Street, S.W., Atlanta 30334
IX HAWAII	-Department of Labor and Industrial Relations, 830 Punchbowl Street, Room 304, Honolulu 96813
X IDAHO	-Department of Employment, P.O. Box 35, Boise 83735
V ILLINOIS	-Bureau of Employment Security, 910 South Michigan Avenue, 12th Floor, Chicago 60605
V INDIANA	-Employment Security Division, 10 North Senate Avenue, Indianapolis 46204
VII IOWA	-Department of Job Service, 1000 East Grand Avenue, Des Moines 50319
VII KANSAS	-Department of Human Resources, 401 Topeka Avenue, Topeka 66603
IV KENTUCKY	-Department for Employment Services, Cabinet for Human Resources, 275 E. Main Street, Frankfort 40621
VI LOUISIANA	-Department of Labor, P.O. Box 44094, Capitol Station, Baton Rouge 70804
I MAINE	-Division of Research and Analysis, Department of Labor, 20 Union Street, Augusta 04330
III MARYLAND	-Research and Analysis Division, Department of Human Resources, 1100 North Eutaw Street, Baltimore 21201
I MASSACHUSETTS	-Division of Employment Security, Charles F. Hurley Building, Government Center, Boston 02114
V MICHIGAN	-Research and Statistics Division, Employment Security Commission, 7310 Woodward Avenue, Detroit 48202
V MINNESOTA	-Department of Jobs and Training, 390 North Robert Street, St. Paul 55101
IV MISSISSIPPI	-Labor Market Information Department, Employment Security Commission, P.O. Box 1699, Jackson 39215-1699
VII MISSOURI	-Division of Employment Security, P.O. Box 59, Jefferson City 65104
VIII MONTANA	-Department of Labor and Industry, P.O. Box 1728, Helena 59601
VII NEBRASKA	-Division of Employment, Department of Labor, P.O. Box 94600, Lincoln 68509
IX NEVADA	-Employment Security Department, 500 East Third Street, Carson City 89713
I NEW HAMPSHIRE	-Department of Employment Security, 32 South Main Street, Concord 03301
II NEW JERSEY	-Division of Planning and Research, Department of Labor, P.O. Box 2765, Trenton 08625
VI NEW MEXICO	-Employment Services Division, Employment Security Department, P.O. Box 1928, Albuquerque 87103
II NEW YORK	-Division of Research and Statistics, Department of Labor, State Campus, Building 12, Albany 12240
IV NORTH CAROLINA	-Labor Market Information Division, Employment Security Commission, P.O. Box 25903, Raleigh 27611
VIII NORTH DAKOTA	-Job Service, P.O. Box 1537, Bismarck 58502
V OHIO	-Labor Market Information Division, Bureau of Employment Services, P.O. Box 1618, Columbus 43216
VI OKLAHOMA	-Research and Planning Division, Employment Security Commission, 310 Will Rogers Memorial Office Building, Oklahoma City 73105
X OREGON	-Employment Division, Department of Human Resources, 875 Union Street N.E., Salem 97311
III PENNSYLVANIA	-Research and Statistics Division, Department of Labor and Industry, 7th and Forster Streets, Harrisburg 17121
II PUERTO RICO	-Department of Labor and Human Resources, Bureau of Labor Statistics, 505 Munoz Rivera Ave., 17th Fl., Hato Rey 00918 (CES). Bureau of Employment Security, 505 Munoz Rivera Ave., 15th Fl., Hato Rey 00918 (LAUS)
I RHODE ISLAND	-Department of Employment Security, 24 Mason Street, Providence 02903
IV SOUTH CAROLINA	-Employment Security Commission, P. O. Box 995, Columbia 29202
VIII SOUTH DAKOTA	-Department of Labor, P.O. Box 1730, Aberdeen 57401
IV TENNESSEE	-Department of Employment Security, Cordell Hull Office Building, Room 519, Nashville 37219
VI TEXAS	-Employment Commission, 15th and Congress Avenue, Austin 78778
VIII UTAH	-Department of Employment Security, P.O. Box 11249, Salt Lake City 84147
I VERMONT	-Department of Employment and Training, P.O. Box 488, Montpelier 05602
III VIRGINIA	-Division of Research and Analysis, Employment Commission, P.O. Box 1358, Richmond 23211
II VIRGIN ISLANDS	-Bureau of Labor Statistics, Department of Labor, P.O. Box 818, St. Thomas 00801
X WASHINGTON	-Employment Security Department, 212 Maple Park, Olympia 98504
III WEST VIRGINIA	-Division of Labor and Economic Security, Depart. of Employment Security, 112 California Avenue, Charleston 25305
V WISCONSIN	-Department of Industry, Labor, and Human Relations, P.O. Box 7944, Madison 53707
VIII WYOMING	-Employment Security Commission, P.O. Box 2760, Casper 82602