

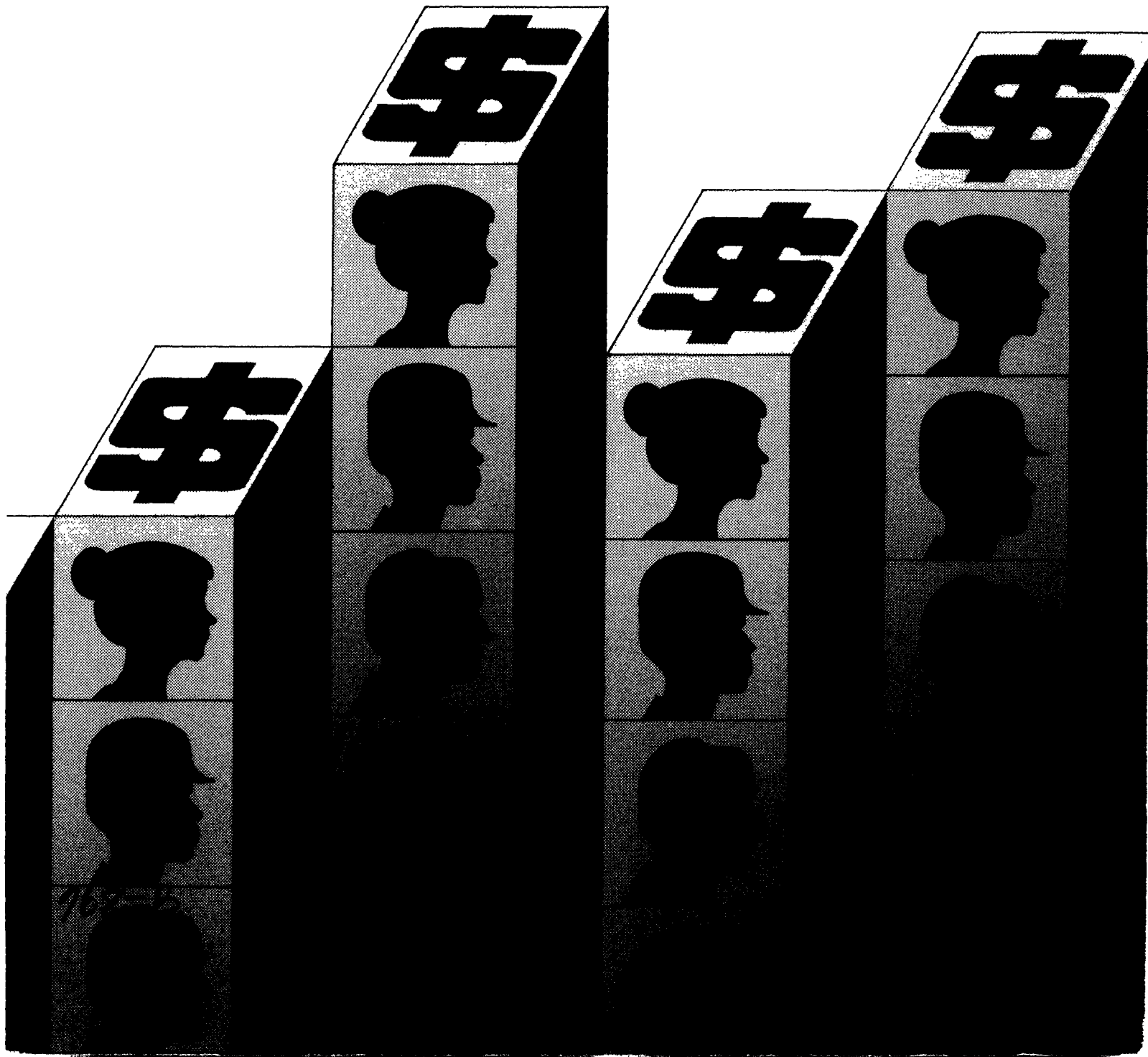
EMPLOYMENT AND EARNINGS

February 1989

U.S. Department of Labor
Bureau of Labor Statistics

In this issue:

Revised seasonally adjusted labor force series
New diffusion indexes





U.S. DEPARTMENT OF LABOR
Elizabeth Dole, 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.

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Calendar of Features

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

Household data

Annual averages	Jan.
Union affiliation	Jan.

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

National annual averages:	
Industry divisions (preliminary)	Jan.

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

Annual averages	May
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¹ The latest supplement was published in August 1988.

Employment and Earnings

Vol. 36 No. 2 February 1989

Editors: Gloria Peterson Green, Rosalie K. Epstein

Contents

	<i>Page</i>
List of statistical tables	2
Employment and unemployment developments, January 1989	5
New indexes of diffusion of employment change	7
Statistical tables:	
Historical—	
Household data	9
Establishment data:	
Employment	47
Hours and earnings	85
Not seasonally adjusted—	
Household data	12
Establishment data:	
Employment:	
National	48
State and area	66
Hours and earnings:	
National	88
State and area	110
State and area labor force data	118
Seasonally adjusted—	
Household data	39
Establishment data:	
Employment	60
Hours and earnings	107
Productivity data	115
Revised seasonally adjusted labor force series, 1984–88	124
Explanatory notes	177

MONTHLY HOUSEHOLD DATA

Page

Employment Status

A- 1.	Employment status of the noninstitutional population 16 years and over, 1955 to date	9
A- 2.	Employment status of the noninstitutional population 16 years and over by sex, 1978 to date	10
A- 3.	Employment status of the civilian noninstitutional population 16 years and over, 1955 to date	11
A- 4.	Employment status of the civilian noninstitutional population by age, sex, and race	12
A- 5.	Employment status of the black-and-other civilian noninstitutional population by age and sex	15
A- 6.	Employment status of the civilian noninstitutional population by race, sex, and age	16
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	17
A- 8.	Employment status of male Vietnam-era veterans and nonveterans by age	19
A- 9.	Employed and unemployed full- and part-time workers by sex, age, and race	20
A-10.	Employment status of persons in families by family relationship	21

Characteristics of the Unemployed

A-11.	Unemployed persons by marital status, race, age, and sex	22
A-12.	Unemployed persons by occupation and sex	23
A-13.	Unemployed persons by industry and sex	24
A-14.	Unemployed persons by reason for unemployment, sex, and race	25
A-15.	Unemployed persons by reason for unemployment, sex, age, and duration of unemployment	26
A-16.	Unemployed persons by duration of unemployment	26
A-17.	Unemployed persons by sex, age, race, marital status, and duration of unemployment	27
A-18.	Unemployed persons by occupation, industry, and duration of unemployment	28
A-19.	Unemployed jobseekers by sex, age, race, and jobsearch methods used	29
A-20.	Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used	29

Characteristics of the Employed

A-21.	Employed civilians in agriculture and nonagricultural industries by age and sex	30
A-22.	Employed civilians by occupation, sex, and age	31
A-23.	Employed civilians by occupation, race, and sex	32
A-24.	Employed civilians by age, sex, and class of worker	33
A-25.	Employed civilians by industry and occupation	34
A-26.	Employed civilians with a job but not at work by reason, sex, and pay status	34
A-27.	Persons at work by hours of work and type of industry	35
A-28.	Persons at work 1 to 34 hours by reason for working less than 35 hours, type of industry, and usual status	35
A-29.	Persons at work in nonagricultural industries by class of worker and full- or part-time status	36
A-30.	Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status	37
A-31.	Persons at work in nonfarm occupations by sex and full- or part-time status	38

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	39
A-33.	Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted	40
A-34.	Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted	41
A-35.	Employed civilians by selected social and economic categories, seasonally adjusted	42
A-36.	Employed civilians by sex and age, seasonally adjusted	43
A-37.	Unemployed persons by sex and age, seasonally adjusted	43
A-38.	Unemployment rates by sex and age, seasonally adjusted	44
A-39.	Selected unemployment indicators, seasonally adjusted	44
A-40.	Unemployed persons by duration of unemployment, seasonally adjusted	45
A-41.	Unemployed persons by reason for unemployment, seasonally adjusted	45

MONTHLY ESTABLISHMENT DATA

Page

Employment--National

B- 1. Employees on nonagricultural payrolls by major industry, 1937 to date .	47
B- 2. Employees on nonagricultural payrolls by detailed industry	48
B- 3. Women employees on nonagricultural payrolls by major industry and manufacturing group .	59
B- 4. Employees on nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	60
B- 5. Women employees on nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	61
B- 6. Production or nonsupervisory workers on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	62
B- 7. Diffusion indexes of employment change, seasonally adjusted .	63

Employment--States and Areas

B- 8. Employees on nonagricultural payrolls in States and selected areas by major industry .	66
--	----

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	85
C- 2. Average hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls by detailed industry	88
C- 2a. Average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing	104
C- 3. Average hourly earnings, excluding overtime, of production workers on manufacturing payrolls .	105
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	106
C- 5. Average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	107
C- 6. Indexes of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted .	108
C- 7. Average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted .	109

Hours and Earnings--States and Areas

C- 8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas .	110
---	-----

PRODUCTIVITY DATA

C- 9. Hours of wage and salary workers in nonagricultural establishments by major industry, seasonally adjusted	115
C-10. Indexes of productivity, hourly compensation, unit costs, and prices, seasonally adjusted .	116
C-11. Percent changes from the preceding quarter and year in productivity, hourly compensation, unit costs, and prices, seasonally adjusted annual rates .	117

MONTHLY STATE AND AREA LABOR FORCE DATA

D- 1. Labor force status by State and selected metropolitan areas .	118
---	-----

REVISED MONTHLY HOUSEHOLD DATA

Page

Revised Seasonally Adjusted Labor Force Series

1.	Labor force by sex, age, race, Hispanic origin, and marital status .	.124
2.	Labor force participation rates by sex, age, race, and Hispanic origin .	.131
3.	Employed persons by sex, age, race, Hispanic origin, and marital status .	.138
4.	Employed civilians in agriculture and nonagricultural industries by selected characteristics .	.145
5.	Persons at work on part-time schedules by reason .	.148
6.	Employment-population ratios by sex, age, race, and Hispanic origin .	149
7.	Unemployed persons by sex, age, race, Hispanic origin, marital status, and full- or part-time status .	156
8.	Unemployed persons by reason for and duration of unemployment .	164
9.	Unemployment rates by sex, age, race, Hispanic origin, marital status, and full- or part-time status .	.166
10.	Unemployment rates for wage and salary workers by industry .	.174

Employment and Unemployment Developments, January 1989

Employment rose substantially in January and unemployment was little changed. Both the overall and the civilian worker jobless rates were 5.4 percent and have shown little movement in recent months.

The number of nonagricultural payroll jobs, as measured by the monthly survey of business establishments, increased by 410,000 in January, after seasonal adjustment. Total civilian employment derived from the survey of households, which has generally shown smaller gains than payroll employment over the past year, rose by 700,000.

Unemployment

Both the level and the rate of unemployment were little changed in January, at 6.7 million and 5.4 percent, respectively, after seasonal adjustment. These measures have hovered near their present levels for the past several months. (See table A-33.)

Similarly, jobless rates for most major worker groups, including adult men (4.6 percent), adult women (4.7 percent), whites (4.6 percent), and blacks (12.0 percent), showed little or no movement from December. The rates for teenagers (16.4 percent) and Hispanics (8.4 percent) edged up over the month. (See tables A-33 and A-34.)

Both the mean and median duration of unemployment, at 12.7 and 5.7 weeks, respectively, were about unchanged from December. Persons jobless for 6 months or more, at about 750,000 in January, accounted for 11 percent of the unemployed total. (See table A-40.)

Civilian employment and the labor force

Civilian employment increased by 700,000 on a seasonally adjusted basis in January to a level of 116.7 million. This gain followed much smaller monthly increases during most of 1988. With the large January rise in employment, the employment-population ratio—the proportion of the working-age population that is working—rose to a record 62.9 percent. (See table A-33.)

The civilian labor force rose by 870,000 after seasonal adjustment to 123.4 million. As a result, the labor force participation rate also was at a record level—66.5 percent. (See table A-33.)

Industry payroll employment

The number of nonagricultural payroll jobs rose by 410,000 in January, on a seasonally adjusted basis, to a level of 108.0 million. Employment growth occurred in both the

goods- and service-producing sectors, with the largest gains in construction and retail trade. These two industries undergo very large seasonal movements from December to January, often resulting in erratic seasonally adjusted changes. (See table B-4.)

In the goods-producing sector, manufacturing posted its fourth consecutive monthly gain, adding 45,000 jobs. Growth was split between durable and nondurable goods industries, with increases in fabricated metals, motor vehicle equipment, food processing, and printing and publishing. Aided by unseasonably warm weather across much of the country, construction employment declined less than usual from December to January, increasing by 100,000 on a seasonally adjusted basis.

Among the service-producing industries, retail trade had the largest over-the-month increase—135,000, seasonally adjusted. Wholesale trade continued to exhibit strength, with the addition of 35,000 jobs. Transportation and public utilities employment rose by 45,000, with most of the gain in transportation. The services industry saw a modest employment increase of 75,000; the health services component rose by 35,000, while business services experienced a small decline. After increasing in the prior 4 months, finance lost nearly 10,000 jobs in January.

Weekly hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls increased by 0.2 hour in January, seasonally adjusted, to 34.9 hours. The manufacturing workweek edged up 0.1 hour to 41.0 hours, and factory overtime remained at 3.9 hours. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, at 128.5 (1977=100), rose by 1.0 percent, after seasonal adjustment. The index for manufacturing increased by 0.7 percent to 97.3. (See table C-6.)

Hourly and weekly earnings

Average hourly earnings of private production or nonsupervisory workers, which had shown relatively little change in the prior 2 months, climbed by 0.6 percent in January, seasonally adjusted. Average weekly earnings rose 1.2 percent. On an unadjusted basis, average hourly earnings increased by 9 cents to \$9.55, while weekly earnings edged down 67 cents to \$329.48. Over the year, both hourly and weekly earnings increased by about 4 percent. (See tables C-1 and 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>
February	March 10	May	June 2
March	April 7	June	July 7
April	May 5	July	August 4

New Indexes of Diffusion of Employment Change

* Patricia M. Getz

Beginning with this issue of *Employment and Earnings*, two new indexes of diffusion of nonagricultural payroll employment change are being published. Table B-7 (p. 63) presents a 349-industry diffusion index of employment change covering all private nonagricultural industries and a 143-industry index for manufacturing. The 349-industry index is a replacement for the 185-industry index previously published in this table. The manufacturing index provides an additional analytical tool not previously published.

A diffusion index is a measure of the dispersion of change. A diffusion index of employment can provide insight into the breadth of employment change, which can be important in assessing overall economic trends. For example, employment increases of similar magnitude may be caused by growth in a few industries or growth in many industries. A sharp overall increase caused by increases in only a few industries can have different economic and policy implications from one caused by more widespread increases.

The new indexes improve the potential for analysis of employment trends because they provide a broader based measure for all private nonagricultural industries, and a separate measure for the cyclically sensitive manufacturing sector. The previously published index was heavily skewed toward manufacturing and thus did not reflect a representative cross-section of industries in the economy.

The old diffusion index incorporated the most comprehensive data available at the time of its introduction in December 1974. The component industries were, for the most part, three-digit Standard Industrial Classification (SIC) levels in manufacturing and two-digit SIC levels elsewhere. This created a disproportionate representation of manufacturing industries in the index. Due to the expansion of data for the service-producing sector in recent years, three-digit SIC estimates in all industry divisions are now available.

Table 1 presents a comparison of the composition of the old and new indexes. In the new index, the representation of the manufacturing component has dropped dramatically, from nearly 75 percent of the total number of industries to 40 percent, much more in line with the proportion of private nonfarm employment accounted for by manufacturing—22 percent. Services and retail trade have the most marked increases in representation.

* Patricia M. Getz is an economist in the Division of Monthly Industry Employment Statistics, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics.

Computation and Interpretation of Diffusion Indexes

The computation of a standard diffusion index is straightforward. Each component series is assigned a value of 0, 50, or 100 percent, depending on whether its employment showed a decrease, no change, or an increase over the given time span. The average value (mean) is then calculated, and this percent is the diffusion index number.

The interpretation of a diffusion index is more complex. The common interpretation is that it measures the percent of components that increased over the time span. This approach can be misleading, however, because the index reflects half of the unchanged components as well. (This is the effect of assigning a value of 50 percent to the unchanged components when computing the index.) A more appropriate interpretation considers the reference point for a diffusion index as 50 percent, the value which indicates that the same number of component industries had increased as had decreased. Index numbers above 50 show that more industries had increasing employment, and values below 50 indicate that more had decreasing employment. The margin between the percent that increased and the percent that decreased is equal to the difference between the index number and its complement, i.e., 100 minus the index. For example, an index of 65 percent means that 30 percent more industries had increasing employment than had decreasing employment ($65 - (100 - 65) = 30$). However, for dispersion analysis, the distance of the index number from the 50-percent reference point is the most significant observation.

Levels and Trends of Old and New Indexes

The diffusion indexes are published for 1-, 3-, and 6-month spans (seasonally adjusted) and a 12-month span. In reviewing how the new 349-industry index performs compared to the 185-industry index, it is most appropriate to concentrate on the 1-month span, as it is conceptually the most similar to over-the-month employment change, which is the focal point for analysis of employment data from the establishment survey. A limitation of the 1-month span is that it is generally the most erratic of the diffusion index series; the longer spans usually produce smoother series.

For analytical purposes, it is useful to review the 1-month-span indexes by breaking the series into four time periods:

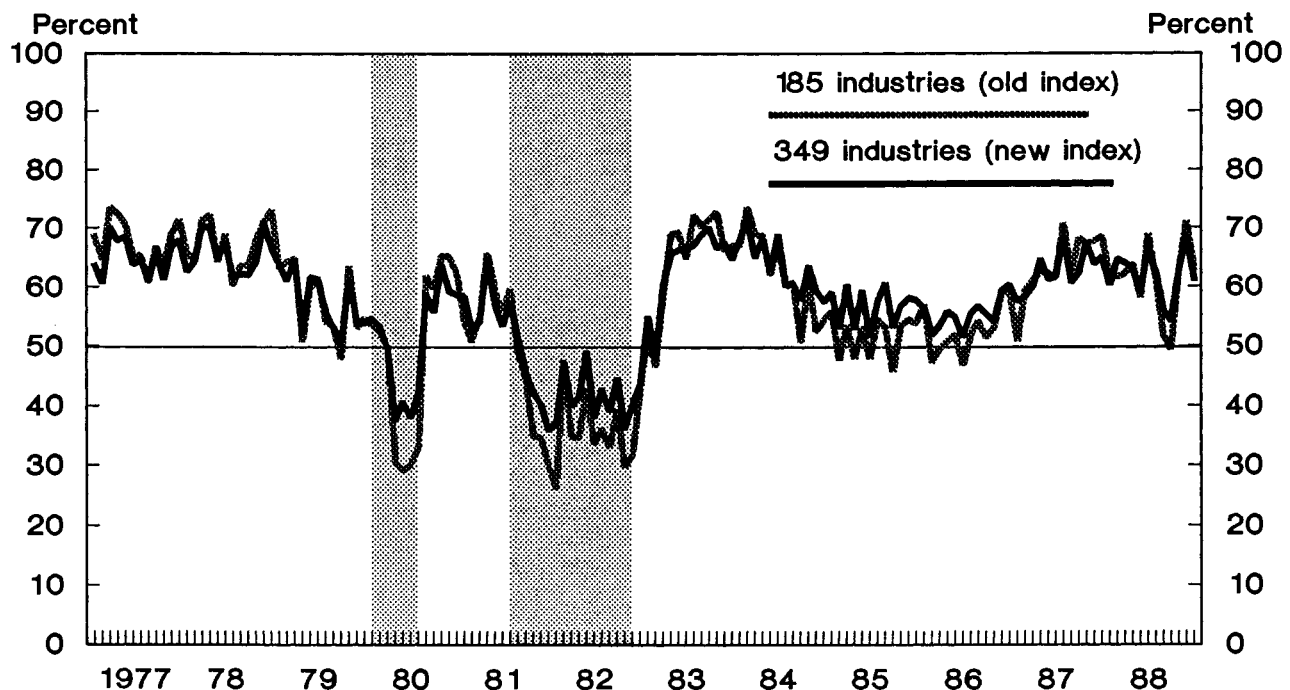
Table 1. Composition of old and new diffusion indexes by industry division

Industry division	Percent of employment, 1988 annual averages	Diffusion indexes			
		Old index		New Index	
		Number of series	Percent of total series	Number of series	Percent of total series
Total private	100.0	185	100.0	349	100.0
Mining . . . . .	.8	5	2.7	14	4.0
Construction	6.0	3	1.6	14	4.0
Manufacturing	22.0	136	73.5	141	40.4
Transportation and public utilities	6.3	9	4.9	31	8.9
Wholesale trade	6.9	2	1.1	18	5.2
Retail trade	21.7	8	4.3	41	11.7
Finance, insurance, and real estate	7.5	8	4.3	26	7.4
Services	28.7	14	7.6	64	18.3

1977-78, 1979-82, 1983-84, and 1984-88. For 1977-78, when employment growth in the manufacturing sector was relatively strong, the broader based index generally shows slightly lower values than the old index, consistent with the lower weight of manufacturing in the total index. Both indexes show similar overall trends, including some erratic movement. (See chart 1.) For 1979-82, the broader index overtakes and is nearly always higher than the former index, especially during the 1980 and 1981-82 recessions. The lower weight of manufacturing in the new index lessens the effect

of the severity of the declines in manufacturing employment, which was particularly hard hit during the two recessions. Again, both series have a similar overall trend, but the graph of the broader based index has a smoother contour and less severe troughs. In the early stages of the recovery (1983-first quarter 1984), the two indexes show virtually identical values. For the second quarter of 1984 to the present, the broader index is almost always higher than the former index, due to the rapid growth of employment in the service-producing sector compared to more modest gains in manufacturing.

Chart 1. Comparison of old and new indexes of diffusion of employment change over 1-month span, private nonagricultural industries, seasonally adjusted, 1977-88



NOTE: Shaded areas indicate recessions.

**HOUSEHOLD DATA
HISTORICAL**

A-1. Employment status of the noninstitutional population 16 years and over, 1955 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												
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	
1988	186,322	123,378	66.2	116,677	1,709	114,968	3,169	111,800	6,701	5.4	62,944	
Monthly data, seasonally adjusted²												
1988:												
January	185,571	122,784	66.2	115,804	1,749	114,055	3,256	110,799	6,980	5.7	62,787	
February	185,705	122,901	66.2	116,009	1,736	114,273	3,200	111,073	6,892	5.6	62,804	
March	185,847	122,672	66.0	115,865	1,736	114,129	3,181	110,948	6,807	5.5	63,175	
April	185,964	123,060	66.2	116,392	1,732	114,660	3,187	111,473	6,668	5.4	62,904	
May	186,088	122,917	66.1	116,117	1,714	114,403	3,110	111,293	6,800	5.5	63,171	
June	186,247	123,209	66.2	116,686	1,685	115,001	3,121	111,880	6,523	5.3	63,038	
July	186,402	123,331	66.2	116,707	1,673	115,034	3,060	111,974	6,624	5.4	63,071	
August	186,522	123,692	66.3	116,895	1,692	115,203	3,142	112,061	6,797	5.5	62,830	
September	186,666	123,688	66.3	117,074	1,704	115,370	3,176	112,194	6,614	5.3	62,978	
October	186,801	123,778	66.3	117,260	1,687	115,573	3,238	112,335	6,518	5.3	63,023	
November	186,949	124,215	66.4	117,652	1,705	115,947	3,238	112,709	6,563	5.3	62,734	
December	187,098	124,259	66.4	117,705	1,696	116,009	3,193	112,816	6,554	5.3	62,839	
1989:												
January	187,340	125,124	66.8	118,407	1,696	116,711	3,300	113,411	6,716	5.4	62,216	

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.

**HOUSEHOLD DATA
HISTORICAL**

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1978 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											
1978 ¹	78,107	61,151	78.3	56,010	1,531	56,479	2,718	53,761	3,142	5.1	16,956
1979	78,509	62,215	78.2	59,098	1,469	57,607	2,688	54,921	3,120	5.0	17,293
1980	80,677	62,932	77.8	58,685	1,479	57,166	2,709	54,477	4,267	6.8	17,945
1981	82,023	63,486	77.4	59,909	1,512	57,397	2,700	54,697	4,577	7.2	16,537
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	54,063	6,260	9.7	19,484
1984	85,156	65,386	76.8	60,642	1,551	59,091	2,688	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	20,056
1986 ¹	87,349	68,973	78.7	62,443	1,551	60,892	2,511	58,381	4,530	6.8	20,376
1987	88,476	67,784	76.6	63,884	1,577	62,107	2,543	59,564	4,101	6.1	20,692
1988	89,404	68,474	76.6	64,620	1,547	63,273	2,493	60,780	3,855	5.3	20,930
Monthly data, seasonally adjusted²											
1988:											
January	89,033	68,219	76.6	64,420	1,588	62,832	2,565	60,267	3,799	5.8	20,614
February	89,099	68,289	76.6	64,587	1,577	63,010	2,505	60,505	3,702	5.4	20,610
March	89,168	68,194	76.5	64,417	1,573	62,844	2,479	60,385	3,777	5.5	20,974
April	89,225	68,462	76.7	64,686	1,569	63,297	2,478	60,821	3,596	5.3	20,763
May	89,267	68,409	76.6	64,672	1,553	63,119	2,452	60,687	3,737	5.5	20,878
June	89,367	68,436	76.6	64,694	1,523	63,371	2,448	60,923	3,542	5.2	20,931
July	89,445	68,481	76.5	64,941	1,512	63,429	2,475	60,954	3,520	5.1	20,984
August	89,504	68,685	76.7	64,931	1,529	63,402	2,491	60,911	3,754	5.5	20,819
September	89,577	68,604	76.6	65,015	1,540	63,475	2,468	60,987	3,589	5.2	20,973
October	89,637	68,569	76.5	64,976	1,526	63,450	2,544	60,906	3,593	5.2	21,088
November	89,716	68,666	76.6	65,074	1,542	63,532	2,533	60,999	3,612	5.3	21,030
December	89,792	68,636	76.4	65,055	1,534	63,521	2,477	61,044	3,583	5.2	21,154
1989:											
January	89,914	69,032	76.6	65,322	1,532	63,790	2,501	61,289	3,710	5.4	20,662
Annual averages											
WOMEN											
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	681	40,556	3,018	6.6	42,606
1980	88,472	45,611	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,661
1981	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922
1982	90,667	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	43,161
1984	92,924	49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,068
1985	93,686	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	49,666	3,324	6.2	42,195
1988	96,916	54,904	56.6	51,658	162	51,696	676	51,020	3,046	5.5	42,014
Monthly data, seasonally adjusted²											
1988:											
January	96,538	54,565	56.5	51,384	161	51,223	691	50,532	3,161	5.8	41,973
February	96,606	54,612	56.5	51,422	159	51,263	695	50,566	3,190	5.6	41,994
March	96,679	54,476	56.3	51,448	163	51,285	702	50,563	3,030	5.6	42,201
April	96,739	54,596	56.4	51,526	163	51,363	711	50,652	3,072	5.6	42,141
May	96,801	54,508	56.3	51,445	161	51,264	658	50,626	3,063	5.6	42,293
June	96,880	54,773	56.5	51,792	162	51,630	673	50,957	2,961	5.4	42,107
July	96,957	54,870	56.6	51,766	161	51,605	585	51,020	3,104	5.7	42,087
August	97,018	55,007	56.7	51,984	163	51,801	651	51,150	3,043	5.5	42,011
September	97,089	55,084	56.7	52,059	164	51,895	666	51,207	3,025	5.5	42,005
October	97,164	55,209	56.8	52,284	161	52,123	694	51,429	2,925	5.3	41,955
November	97,234	55,529	57.1	52,576	163	52,415	705	51,710	2,951	5.3	41,705
December	97,306	55,621	57.2	52,650	162	52,488	716	51,772	2,971	5.3	41,685
1989:											
January	97,427	56,091	57.6	53,085	164	52,921	799	52,122	3,006	5.4	41,336

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

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

A-3. Employment status of the civilian noninstitutional population 16 years and over, 1955 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								
1955	108,683	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
1988	184,613	121,669	65.9	114,968	6,701	5.5	5.5	5.6
Monthly data, seasonally adjusted ²								
1988:								
January	183,822	121,035	65.8	114,055	6,980	5.8	5.7	5.8
February	183,969	121,165	65.9	114,273	6,892	5.7	5.5	5.9
March	184,111	120,936	65.7	114,129	6,807	5.6	5.7	5.6
April	184,232	121,328	65.9	114,660	6,668	5.5	5.4	5.6
May	184,374	121,203	65.7	114,403	6,800	5.6	5.6	5.6
June	184,562	121,524	65.8	115,001	6,523	5.4	5.3	5.5
July	184,729	121,658	65.9	115,034	6,624	5.4	5.3	5.7
August	184,830	122,000	66.0	115,203	6,797	5.6	5.6	5.5
September	184,962	121,984	66.0	115,370	6,614	5.4	5.4	5.5
October	185,114	122,091	66.0	115,573	6,518	5.3	5.4	5.3
November	185,244	122,510	66.1	115,947	6,563	5.4	5.4	5.3
December	185,402	122,563	66.1	116,009	6,554	5.3	5.3	5.4
1989:								
January	185,644	123,428	66.5	116,711	6,716	5.4	5.5	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	January 1989										
	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	185,644	122,095	65.8	114,786	7,309	6.0	63,549	27,525	8,900	3,113	24,012
16 to 19 years	14,410	7,319	50.8	6,057	1,261	17.2	7,091	429	6,049	22	591
16 to 17 years	7,086	2,755	38.9	2,242	513	18.6	4,331	88	4,043	6	195
18 to 19 years	7,324	4,564	62.3	3,816	748	16.4	2,760	342	2,006	17	395
20 to 24 years	18,214	14,037	77.1	12,593	1,443	10.3	4,178	1,479	1,804	85	809
25 to 54 years	102,558	85,479	83.3	81,384	4,095	4.8	17,080	11,676	1,029	1,224	3,150
25 to 34 years	42,759	35,662	83.4	33,665	1,997	5.6	7,097	4,963	708	270	1,156
25 to 29 years	21,188	17,684	83.5	16,545	1,139	6.4	3,503	2,359	443	94	607
30 to 34 years	21,571	17,978	83.3	17,120	858	4.8	3,593	2,603	265	176	549
35 to 44 years	35,391	30,165	85.2	28,885	1,280	4.2	5,226	3,635	233	425	933
35 to 39 years	19,097	16,323	85.5	15,574	748	4.6	2,774	1,968	145	190	473
40 to 44 years	16,294	13,843	85.0	13,310	532	3.8	2,451	1,667	88	235	461
45 to 54 years	24,409	19,653	80.5	18,835	817	4.2	4,757	3,079	87	529	1,061
45 to 49 years	13,205	11,019	83.4	10,537	482	4.4	2,186	1,491	50	244	401
50 to 54 years	11,204	8,633	77.1	8,298	337	3.9	2,570	1,587	37	286	660
55 to 64 years	21,569	11,939	55.4	11,510	429	3.6	9,630	4,635	10	694	4,290
55 to 59 years	10,742	7,113	66.2	6,867	246	3.5	3,630	2,003	4	317	1,306
60 to 64 years	10,826	4,826	44.6	4,643	183	3.8	6,000	2,633	5	377	2,984
65 years and over	28,892	3,321	11.5	3,241	60	2.4	25,571	9,305	8	1,086	15,171
65 to 69 years	9,918	2,049	20.7	1,992	57	2.8	7,868	2,980	6	272	4,611
70 to 74 years	7,733	824	10.7	809	16	1.9	6,910	2,587	-	216	4,106
75 years and over	11,241	448	4.0	441	7	1.6	10,793	3,739	4	598	6,454
Men											
16 years and over	88,382	66,665	75.4	62,412	4,252	6.4	21,717	549	4,505	1,731	14,932
16 to 19 years	7,219	3,738	51.8	2,971	767	20.5	3,481	19	3,131	13	318
16 to 17 years	3,603	1,355	37.6	1,046	309	22.8	2,248	5	2,136	3	103
18 to 19 years	3,616	2,384	65.9	1,925	459	19.2	1,233	14	995	9	215
20 to 24 years	8,847	7,371	83.3	6,549	822	11.2	1,476	26	926	63	462
25 to 54 years	50,150	46,827	93.4	44,472	2,355	5.0	3,324	184	438	795	1,907
25 to 34 years	21,000	19,743	94.0	18,633	1,111	5.6	1,257	66	324	187	681
25 to 29 years	10,395	9,725	93.6	9,069	656	6.7	670	24	236	73	337
30 to 34 years	10,606	10,019	94.5	9,564	455	4.5	587	42	88	113	344
35 to 44 years	17,327	16,331	94.3	15,578	753	4.6	995	67	63	288	559
35 to 39 years	9,392	8,890	94.7	8,442	447	5.0	502	41	58	116	287
40 to 44 years	7,935	7,442	93.8	7,136	306	4.1	493	26	25	170	272
45 to 54 years	11,823	10,752	90.9	10,261	491	4.6	1,071	51	30	322	667
45 to 49 years	6,413	5,967	93.0	5,679	288	4.8	446	26	17	155	248
50 to 54 years	5,410	4,785	88.4	4,582	204	4.3	625	25	13	168	419
55 to 64 years	10,164	6,785	66.8	6,508	278	4.1	3,379	83	3	416	2,876
55 to 59 years	5,120	4,047	79.1	3,874	173	4.3	1,072	36	1	191	844
60 to 64 years	5,045	2,738	54.3	2,633	104	3.8	2,307	48	2	225	2,032
65 years and over	12,001	1,944	16.2	1,913	30	1.6	10,057	237	7	444	9,369
65 to 69 years	4,500	1,182	26.3	1,159	23	2.0	3,318	68	3	155	3,093
70 to 74 years	3,343	490	14.7	484	6	1.2	2,854	58	-	94	2,702
75 years and over	4,157	272	6.5	271	1	.3	3,885	112	4	195	3,574
Women											
16 years and over	97,263	55,430	57.0	52,374	3,057	5.5	41,832	26,975	4,395	1,382	9,060
16 to 19 years	7,191	3,580	49.8	3,087	494	13.8	3,611	410	2,918	10	272
16 to 17 years	3,483	1,400	40.2	1,196	205	14.6	2,083	82	1,906	2	92
18 to 19 years	3,708	2,180	58.8	1,891	289	13.3	1,528	328	1,012	8	181
20 to 24 years	9,367	6,666	71.2	6,044	621	9.3	2,701	1,453	878	22	347
25 to 54 years	52,408	38,652	73.8	36,912	1,740	4.5	13,756	11,492	591	429	1,243
25 to 34 years	21,758	15,918	73.2	15,032	886	5.6	5,840	4,897	384	84	475
25 to 29 years	10,793	7,959	73.7	7,476	483	6.1	2,833	2,335	207	21	270
30 to 34 years	10,965	7,959	72.6	7,556	403	5.1	3,006	2,561	177	63	205
35 to 44 years	18,084	13,834	76.6	13,306	527	3.8	4,231	3,568	150	139	374
35 to 39 years	9,705	7,433	76.6	7,132	301	4.0	2,272	1,926	87	74	186
40 to 44 years	8,359	6,401	76.6	6,174	226	3.5	1,958	1,641	63	65	189
45 to 54 years	12,586	8,900	70.7	8,574	326	3.7	3,685	3,027	57	207	394
45 to 49 years	6,792	5,052	74.4	4,858	194	3.8	1,740	1,465	33	89	153
50 to 54 years	5,794	3,848	66.4	3,716	133	3.4	1,945	1,562	24	118	241
55 to 64 years	11,405	5,154	45.2	5,002	152	2.9	6,251	4,552	6	278	1,414
55 to 59 years	5,623	3,066	54.5	2,993	73	2.4	2,557	1,967	3	126	462
60 to 64 years	5,782	2,089	36.1	2,010	79	3.8	3,693	2,585	3	153	952
65 years and over	16,892	1,378	8.2	1,328	50	3.6	15,514	9,068	1	643	5,802
65 to 69 years	5,418	867	16.0	833	34	3.9	4,550	2,912	3	117	1,518
70 to 74 years	4,390	334	7.6	325	10	3.0	4,056	2,529	-	122	1,404
75 years and over	7,084	176	2.5	170	6	3.5	6,908	3,627	-	403	2,880

**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	January 1989										
	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	158,865	105,020	66.1	99,506	5,514	5.3	53,845	23,943	6,720	2,374	20,808
16 to 19 years	11,683	6,363	54.5	5,399	964	15.2	5,320	312	4,538	14	456
16 to 17 years	5,685	2,414	42.5	2,006	409	16.9	3,271	70	3,030	5	167
18 to 19 years	5,998	3,949	65.8	3,393	555	14.1	2,049	242	1,508	10	290
20 to 24 years	15,049	11,870	78.9	10,778	1,092	9.2	3,179	1,112	1,432	53	582
25 to 54 years	87,292	73,252	83.9	70,214	3,037	4.1	14,040	9,950	738	899	2,452
25 to 34 years	35,954	30,210	84.0	28,799	1,411	4.7	5,744	4,165	499	201	878
25 to 29 years	17,793	14,969	84.1	14,166	803	5.4	2,824	1,972	318	69	464
30 to 34 years	18,162	15,241	83.9	14,633	608	4.0	2,920	2,193	181	131	415
35 to 44 years	30,321	25,989	85.7	25,021	968	3.7	4,332	3,126	167	324	714
35 to 39 years	16,219	13,924	85.8	13,376	549	6.4	2,295	1,710	102	143	352
40 to 44 years	14,101	12,064	85.6	11,645	419	3.5	2,036	1,440	66	181	362
45 to 54 years	21,017	17,052	81.1	16,393	659	3.9	3,965	2,659	72	374	860
45 to 49 years	11,378	9,577	84.2	9,189	388	4.1	1,801	1,271	42	179	321
50 to 54 years	9,639	7,475	77.5	7,203	271	5.2	2,163	1,431	31	196	539
55 to 64 years	18,867	10,568	56.0	10,215	353	3.3	8,298	4,114	5	524	3,656
55 to 59 years	9,339	6,262	67.1	6,061	202	3.2	3,077	1,772	3	235	1,067
60 to 64 years	9,527	4,306	45.2	4,155	152	3.5	5,221	2,342	2	288	2,589
65 years and over	25,975	2,967	11.4	2,901	66	2.2	23,008	8,454	7	884	13,663
65 to 69 years	8,840	1,827	20.7	1,778	49	2.7	7,014	2,684	5	216	4,110
70 to 74 years	6,971	745	10.7	733	12	1.6	6,226	2,335		166	3,726
75 years and over	10,163	395	3.9	390	5	1.3	9,768	3,436	4	502	5,828
Men											
16 years and over	76,217	58,100	76.2	54,805	3,295	5.7	18,116	412	3,424	1,324	12,956
16 to 19 years	5,885	3,246	55.2	2,646	600	18.5	2,639	13	2,379	9	238
16 to 17 years	2,908	1,190	40.9	946	243	20.5	1,719	-	1,629	4	85
18 to 19 years	2,977	2,056	69.1	1,699	357	17.3	920	12	750	6	153
20 to 24 years	7,362	6,229	84.6	5,585	644	10.3	1,133	11	737	41	343
25 to 54 years	43,214	40,759	94.3	38,965	1,794	4.4	2,455	129	301	596	1,429
25 to 34 years	17,910	17,000	94.9	16,197	803	4.7	910	46	230	142	491
25 to 29 years	8,834	8,331	94.3	7,858	473	5.7	503	18	177	58	250
30 to 34 years	9,076	8,669	95.5	8,339	330	3.8	407	28	53	84	242
35 to 44 years	15,004	14,289	95.2	13,707	581	4.1	716	47	45	217	405
35 to 39 years	8,053	7,706	95.7	7,374	332	4.3	347	28	32	86	202
40 to 44 years	6,951	6,582	94.7	6,333	249	3.8	368	20	14	132	203
45 to 54 years	10,300	9,470	91.9	9,060	410	4.3	829	36	26	236	532
45 to 49 years	5,592	5,254	94.0	5,005	249	4.7	338	16	16	112	194
50 to 54 years	4,708	4,217	89.6	4,055	161	3.8	491	20	10	124	338
55 to 64 years	8,951	6,103	68.2	5,875	228	3.7	2,848	60	1	312	2,474
55 to 59 years	4,484	3,614	80.6	3,473	141	3.9	870	29	1	142	698
60 to 64 years	4,467	2,489	55.7	2,402	87	3.5	1,978	31	170	1,777	
65 years and over	10,805	1,763	16.3	1,734	29	1.6	9,042	199	6	365	8,471
65 to 69 years	4,037	1,073	26.6	1,051	22	2.0	2,964	50	2	132	2,780
70 to 74 years	3,022	447	14.8	441	6	1.3	2,574	51		70	2,453
75 years and over	3,746	243	6.5	242	1	.3	3,503	98	4	163	3,239
Women											
16 years and over	82,649	46,920	56.8	44,702	2,218	4.7	35,729	23,531	3,295	1,050	7,852
16 to 19 years	5,798	3,117	53.8	2,753	364	11.7	2,681	299	2,159	5	218
16 to 17 years	2,777	1,225	44.1	1,059	165	13.5	1,552	69	1,401	1	81
18 to 19 years	3,021	1,893	62.6	1,694	199	10.5	1,129	230	758	4	137
20 to 24 years	7,687	5,641	73.4	5,193	448	7.9	2,046	1,101	694	12	239
25 to 54 years	44,078	32,493	73.7	31,249	1,243	3.8	11,585	9,821	437	303	1,023
25 to 34 years	18,044	13,210	73.2	12,602	608	4.6	4,834	4,119	269	59	387
25 to 29 years	8,959	6,638	74.1	6,308	330	5.0	2,321	1,954	141	11	214
30 to 34 years	9,086	6,572	72.3	6,294	278	4.2	2,513	2,165	128	47	173
35 to 44 years	15,317	11,701	76.4	11,314	387	3.3	3,616	3,079	122	107	309
35 to 39 years	8,166	6,218	76.1	6,002	217	3.5	1,948	1,671	70	57	150
40 to 44 years	7,150	5,482	76.7	5,312	170	3.1	1,668	1,408	52	49	159
45 to 54 years	10,717	7,582	70.7	7,333	249	3.3	3,135	2,623	46	138	328
45 to 49 years	5,786	4,323	74.7	4,184	139	3.2	1,463	1,244	26	67	127
50 to 54 years	4,931	3,258	66.1	3,148	110	3.4	1,672	1,379	21	72	201
55 to 64 years	9,916	4,466	45.0	4,340	125	2.8	5,450	4,054	4	212	1,181
55 to 59 years	4,855	2,648	54.5	2,588	61	2.3	2,207	1,743	2	93	369
60 to 64 years	5,061	1,817	35.9	1,752	65	3.6	3,244	2,311	2	119	812
65 years and over	15,170	1,204	7.9	1,167	37	3.1	13,966	8,255	1	518	5,191
65 to 69 years	4,803	754	15.7	727	27	3.6	4,050	2,634	3	84	1,330
70 to 74 years	3,949	298	7.5	292	6	2.0	3,652	2,284	-	96	1,273
75 years and over	6,417	152	2.4	148	4	2.5	6,265	3,338	-	339	2,589

**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	January 1989										
	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	20,877	13,275	63.6	11,705	1,570	11.8	7,602	2,705	1,582	652	2,665
16 to 19 years	2,175	755	34.7	490	265	35.1	1,420	100	1,191	8	122
16 to 17 years	1,112	263	23.6	171	92	34.9	849	12	809	1	28
18 to 19 years	1,063	492	46.3	318	174	35.3	571	88	382	7	84
20 to 24 years	2,503	1,781	71.2	1,479	303	17.0	721	292	229	27	173
25 to 54 years	11,650	9,400	80.7	8,479	921	9.8	2,250	1,216	160	283	591
25 to 34 years	5,281	4,310	81.8	3,791	519	12.0	970	564	118	62	227
25 to 29 years	2,676	2,174	81.2	1,886	288	13.2	502	296	70	24	112
30 to 34 years	2,604	2,136	82.0	1,905	232	10.9	469	268	48	38	114
35 to 44 years	3,810	3,154	82.8	2,887	287	8.5	656	352	33	66	185
35 to 39 years	2,163	1,816	84.0	1,640	174	9.6	348	192	18	40	99
40 to 44 years	1,647	1,339	81.3	1,246	93	6.9	309	160	17	47	86
45 to 54 years	2,559	1,936	75.6	1,801	135	7.0	623	300	9	135	179
45 to 49 years	1,362	1,061	77.9	988	75	7.1	301	168	3	55	75
50 to 54 years	1,197	875	73.1	815	60	6.9	322	132	6	80	104
55 to 64 years	2,120	1,050	49.5	982	68	6.5	1,070	389	2	160	520
55 to 59 years	1,103	654	59.3	612	42	6.5	449	162	1	78	208
60 to 64 years	1,017	396	38.9	370	25	8.4	821	227	1	82	312
65 years and over	2,430	288	11.9	275	13	4.5	2,141	708	-	174	1,259
65 to 69 years	891	172	19.3	164	8	4.7	719	237	-	58	426
70 years and over	1,538	116	7.5	110	6	5.2	1,421	472	-	118	832
Men											
18 years and over	9,371	6,558	70.0	5,749	809	12.3	2,813	104	742	348	1,622
16 to 19 years	1,071	395	36.9	248	149	37.8	677	7	595	3	73
16 to 17 years	560	136	24.3	79	57	41.7	425	5	403	-	17
18 to 19 years	511	259	50.6	186	92	35.7	252	1	191	3	56
20 to 24 years	1,140	927	81.4	781	147	15.8	212	13	99	22	79
25 to 54 years	5,224	4,573	87.5	4,107	466	10.2	652	40	48	186	398
25 to 34 years	2,381	2,150	89.9	1,890	259	12.1	241	15	32	37	157
25 to 29 years	1,211	1,101	90.9	954	147	13.3	110	3	22	15	70
30 to 34 years	1,179	1,049	88.9	936	113	10.7	131	11	10	22	87
35 to 44 years	1,898	1,486	77.5	1,342	143	9.6	213	16	13	58	126
35 to 39 years	965	860	89.1	782	97	11.3	105	9	6	24	66
40 to 44 years	734	626	85.3	580	48	7.3	108	7	7	35	60
45 to 54 years	1,135	938	82.6	874	63	6.8	198	9	3	71	115
45 to 49 years	605	517	85.4	493	24	4.7	88	7	-	33	48
50 to 54 years	530	421	79.4	382	39	9.3	109	2	2	38	67
55 to 64 years	957	518	54.1	473	45	8.7	439	17	-	93	329
55 to 59 years	499	324	64.9	292	32	9.7	175	5	-	45	125
60 to 64 years	458	194	42.4	180	13	6.9	263	12	-	48	205
65 years and over	980	145	14.8	143	1	1.0	835	27	-	64	743
65 to 69 years	389	87	22.3	85	2	1.8	302	10	-	23	269
70 years and over	590	58	9.8	58	-	(¹)	532	18	-	42	473
Women											
18 years and over	11,506	6,717	58.4	5,958	761	11.3	4,789	2,601	841	304	1,043
16 to 19 years	1,104	360	32.6	244	116	32.3	744	93	596	5	49
16 to 17 years	552	127	23.0	92	35	27.6	425	7	406	1	11
18 to 19 years	552	233	42.2	152	81	34.8	319	87	191	4	38
20 to 24 years	1,383	854	62.7	698	156	18.3	509	279	130	5	94
25 to 54 years	6,426	4,827	75.1	4,372	455	9.4	1,598	1,176	112	117	193
25 to 34 years	2,890	2,161	74.8	1,901	260	12.0	730	549	86	25	70
25 to 29 years	1,465	1,073	73.3	932	141	13.1	392	293	48	9	42
30 to 34 years	1,425	1,087	76.3	969	119	10.9	338	257	38	16	27
35 to 44 years	2,112	1,668	79.0	1,545	124	7.4	443	336	20	28	59
35 to 39 years	1,198	956	79.8	878	77	8.1	243	183	10	16	33
40 to 44 years	913	713	78.0	666	47	8.5	201	153	10	12	26
45 to 54 years	1,424	998	70.1	927	71	7.1	426	291	6	64	64
45 to 49 years	757	544	71.9	493	51	9.3	213	161	3	22	27
50 to 54 years	667	454	68.1	433	21	4.5	213	130	4	42	37
55 to 64 years	1,183	532	45.8	510	23	4.3	831	372	2	67	181
55 to 59 years	804	330	54.7	320	11	3.3	274	157	1	33	64
60 to 64 years	559	202	36.1	190	12	6.0	357	215	1	34	107
65 years and over	1,450	144	9.9	132	12	8.1	1,307	681	-	110	516
65 to 69 years	502	85	17.0	79	6	6.8	417	227	-	33	157
70 years and over	948	58	6.2	52	6	(¹)	889	454	-	76	359

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	January 1989								Not in labor force	
	Civilian noninstitutional population	Civilian labor force						Percent of labor force		
		Total	Percent of population	Employed			Unemployed			
				Total	Agriculture	Nonagricultural industries	Number			
TOTAL										
16 years and over	26,779	17,075	63.8	15,279	195	15,084	1,795	10.5	9,704	
16 to 19 years	2,727	958	35.0	658	1	657	297	31.1	1,771	
16 to 17 years	1,401	341	24.3	238	1	235	105	30.8	1,060	
16 to 19 years	1,328	615	46.4	422	-	422	193	31.3	711	
20 to 24 years	3,165	2,168	68.4	1,815	19	1,796	351	16.2	999	
25 to 54 years	15,289	12,228	60.1	11,171	138	11,036	1,057	8.6	3,040	
25 to 34 years	6,605	5,452	80.1	4,866	60	4,806	586	10.7	1,353	
25 to 29 years	3,395	2,714	79.9	2,379	27	2,353	336	12.3	680	
30 to 34 years	3,410	1,424	41.8	2,487	33	2,453	250	17.6	673	
35 to 44 years	5,070	4,176	82.4	3,863	46	3,817	312	7.5	695	
35 to 39 years	2,877	2,397	83.3	2,198	24	2,174	199	8.3	479	
40 to 44 years	2,193	1,778	81.1	1,665	21	1,644	113	6.4	415	
45 to 54 years	3,392	2,600	76.7	2,442	30	2,412	158	6.1	792	
45 to 49 years	1,627	1,442	78.9	1,348	10	1,338	93	6.4	385	
50 to 54 years	1,565	1,158	74.0	1,094	20	1,073	65	5.6	407	
55 to 64 years	2,702	1,371	50.7	1,295	30	1,265	76	5.6	1,331	
55 to 59 years	1,403	650	60.8	808	13	793	44	5.2	553	
60 to 64 years	1,299	520	40.1	489	18	472	32	6.1	779	
65 years and over	2,917	354	12.1	340	10	331	14	3.9	2,663	
65 to 69 years	1,077	222	20.6	215	-	215	8	3.6	655	
70 to 74 years	783	78	10.2	76	6	68	4	5.1	683	
75 years and over	1,078	53	4.9	51	2	48	2	(¹)	1,025	
Men										
16 years and over	12,165	8,564	70.4	7,607	163	7,445	957	11.2	3,601	
16 to 19 years	1,334	493	36.9	325	1	325	167	34.0	842	
16 to 17 years	695	165	23.8	100	1	99	65	39.6	530	
16 to 19 years	640	327	51.2	226	-	226	102	31.1	312	
20 to 24 years	1,485	1,141	78.9	963	18	946	178	15.6	343	
25 to 54 years	6,938	6,068	87.5	5,507	116	5,393	561	9.2	669	
25 to 34 years	3,091	2,743	88.6	2,436	51	2,385	308	11.2	347	
25 to 29 years	1,561	1,393	89.3	1,211	24	1,188	182	13.1	167	
30 to 34 years	1,530	1,350	88.2	1,225	27	1,197	125	9.3	180	
35 to 44 years	2,323	2,043	88.0	1,871	38	1,834	172	6.4	280	
35 to 39 years	1,338	1,163	88.4	1,068	17	1,051	115	9.7	155	
40 to 44 years	984	860	87.3	803	20	783	57	6.6	125	
45 to 54 years	1,524	1,282	84.1	1,200	27	1,174	81	6.3	242	
45 to 49 years	821	713	86.8	674	9	665	39	5.5	108	
50 to 54 years	702	568	81.0	526	18	508	42	7.4	134	
55 to 64 years	1,213	682	56.2	633	21	612	50	7.3	531	
55 to 59 years	636	433	68.2	401	9	392	32	7.4	202	
60 to 64 years	576	249	43.1	231	12	220	18	7.1	329	
65 years and over	1,196	180	15.1	179	9	171	1	.7	1,015	
65 to 69 years	483	109	23.5	108	-	108	1	1.3	354	
70 to 74 years	322	42	13.0	43	8	35	-	(¹)	279	
75 years and over	411	29	7.1	29	1	28	-	(¹)	382	
Women										
16 years and over	14,614	8,510	58.2	7,672	33	7,639	838	9.9	6,103	
16 to 19 years	1,393	463	33.3	333	1	333	130	28.1	930	
16 to 17 years	706	176	24.9	136	-	136	39	22.4	531	
16 to 19 years	687	288	41.9	197	1	196	91	31.5	399	
20 to 24 years	1,680	1,025	61.0	852	1	851	173	16.9	655	
25 to 54 years	8,331	6,160	73.9	5,664	22	5,643	496	8.1	2,171	
25 to 34 years	3,714	2,708	72.9	2,430	9	2,421	278	10.3	1,006	
25 to 29 years	1,834	1,321	72.0	1,168	3	1,165	153	11.6	513	
30 to 34 years	1,880	1,367	73.8	1,262	6	1,256	125	9.0	493	
35 to 44 years	2,748	2,133	77.6	1,992	9	1,984	141	6.6	615	
35 to 39 years	1,539	1,214	78.9	1,130	7	1,123	84	6.9	324	
40 to 44 years	1,209	918	76.0	862	1	861	56	6.1	290	
45 to 54 years	1,869	1,319	70.6	1,242	4	1,238	77	5.8	550	
45 to 49 years	1,006	729	72.5	674	1	673	54	7.5	277	
50 to 54 years	863	590	68.4	568	2	565	23	3.8	273	
55 to 64 years	1,489	689	46.3	662	9	653	26	3.8	800	
55 to 59 years	768	417	54.3	405	4	401	12	2.9	350	
60 to 64 years	721	271	37.6	257	5	253	14	5.2	450	
65 years and over	1,722	174	10.1	161	1	160	13	7.3	1,548	
65 to 69 years	614	113	18.5	107	-	107	7	6.0	501	
70 to 74 years	441	36	6.2	33	-	33	4	(¹)	404	
75 years and over	667	24	3.6	22	1	20	2	(¹)	643	

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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	
	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989
TOTAL								
Civilian noninstitutional population	183,822	185,644	80,120	81,162	89,110	90,072	14,592	14,410
Civilian labor force	119,742	122,095	62,031	62,926	50,317	51,850	7,394	7,319
Percent of population	65.1	65.8	77.4	77.5	56.5	57.6	50.7	50.8
Employed	112,139	114,788	58,357	59,442	47,633	49,287	6,150	6,057
Agriculture	2,789	2,831	2,077	2,054	539	606	173	171
Nonagricultural industries	109,350	111,955	56,280	57,387	47,094	48,681	5,977	5,886
Unemployed	7,603	7,309	3,674	3,485	2,684	2,563	1,244	1,261
Unemployment rate	6.3	6.0	5.9	5.5	5.3	4.9	16.8	17.2
Not in labor force	64,079	63,549	18,089	18,236	38,792	38,222	7,198	7,091
White								
Civilian noninstitutional population	157,676	158,865	69,585	70,332	76,197	76,851	11,894	11,683
Civilian labor force	103,120	105,020	54,135	54,854	42,545	43,803	6,441	6,363
Percent of population	65.4	66.1	77.8	78.0	55.8	57.0	54.2	54.5
Employed	97,311	99,506	51,220	52,159	40,610	41,948	5,481	5,399
Agriculture	2,634	2,636	1,948	1,892	515	573	171	170
Nonagricultural industries	94,678	96,871	49,273	50,267	40,094	41,375	5,311	5,229
Unemployed	5,809	5,514	2,914	2,695	1,935	1,854	960	964
Unemployment rate	5.6	5.3	5.4	4.9	4.5	4.2	14.9	15.2
Not in labor force	54,556	53,845	15,450	15,477	33,652	33,048	5,453	5,320
Black								
Civilian noninstitutional population	20,539	20,877	8,148	8,300	10,220	10,402	2,171	2,175
Civilian labor force	12,967	13,275	6,029	6,163	6,189	6,357	749	755
Percent of population	63.1	63.6	74.0	74.3	60.6	61.1	34.5	34.7
Employed	11,417	11,705	5,398	5,504	5,528	5,712	492	490
Agriculture	119	156	102	131	17	24	-	1
Nonagricultural industries	11,298	11,549	5,295	5,372	5,511	5,688	492	489
Unemployed	1,550	1,570	631	659	661	645	257	265
Unemployment rate	12.0	11.8	10.5	10.7	10.7	10.1	34.4	35.1
Not in labor force	7,573	7,602	2,119	2,137	4,031	4,045	1,422	1,420

**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	January 1989									
	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	15,602	7,498	48.1	6,622	1,334	5,288	876	94	782	11.7
16 to 19 years	10,786	4,660	43.2	4,011	363	3,648	649	50	599	13.9
20 to 24 years	4,818	2,838	58.9	2,611	972	1,639	227	45	183	8.0
High school	8,087	3,207	39.6	2,710	117	2,593	497	27	470	15.5
College	7,515	4,292	57.1	3,912	1,217	2,695	379	67	312	8.8
Full-time students	6,622	3,479	52.5	3,137	691	2,446	342	42	300	9.8
Part-time students	894	812	90.9	775	526	249	37	25	12	4.6
Men, 16 to 24 years	7,855	3,668	46.7	3,133	671	2,462	535	50	485	14.6
16 to 19 years	5,458	2,289	41.9	1,885	188	1,697	404	26	378	17.7
20 to 24 years	2,397	1,379	57.5	1,248	483	765	131	24	107	9.5
High school	4,238	1,644	38.8	1,336	77	1,259	308	12	296	18.7
College	3,616	2,024	56.0	1,797	594	1,204	227	38	190	11.2
Full-time students	3,220	1,667	51.8	1,459	355	1,104	208	25	183	12.5
Part-time students	396	357	90.0	338	238	100	19	13	6	5.3
Women, 18 to 24 years	7,748	3,830	49.4	3,489	663	2,826	341	44	297	8.9
16 to 19 years	5,328	2,371	44.5	2,126	174	1,952	245	24	221	10.3
20 to 24 years	2,419	1,459	60.3	1,363	489	874	96	20	76	6.6
High school	3,849	1,562	40.6	1,374	40	1,334	189	14	174	12.1
College	3,899	2,267	58.2	2,115	624	1,492	152	30	122	6.7
Full-time students	3,402	1,812	53.3	1,678	336	1,342	134	17	117	7.4
Part-time students	497	455	91.6	437	288	149	18	13	5	4.0
White										
Total, 16 to 24 years	12,782	6,536	51.1	5,840	1,181	4,659	697	70	627	10.7
16 to 19 years	8,707	4,056	46.6	3,558	323	3,235	498	37	461	12.3
20 to 24 years	4,075	2,460	60.8	2,282	858	1,424	198	33	165	8.0
Men	6,444	3,196	49.6	2,763	594	2,168	434	35	399	13.6
Women	6,338	3,340	52.7	3,077	586	2,491	263	35	228	7.9
High school	6,377	2,769	43.4	2,380	97	2,283	389	23	366	14.0
College	6,405	3,767	58.8	3,460	1,083	2,376	308	47	260	8.2
Full-time students	5,637	3,063	54.3	2,790	638	2,152	273	27	247	8.9
Part-time students	769	704	91.6	670	446	224	34	20	14	4.9
Black										
Total, 16 to 24 years	2,084	665	32.8	538	130	407	147	17	130	21.5
16 to 19 years	1,611	449	27.9	318	30	288	132	11	121	29.3
20 to 24 years	473	235	49.7	220	101	119	15	6	9	6.5
Men	1,024	329	32.1	250	64	186	79	11	68	24.1
Women	1,060	356	33.5	288	66	222	68	6	62	19.0
High school	1,349	333	24.7	239	16	224	94	2	92	28.2
College	736	351	47.7	298	115	184	53	15	38	15.1
Full-time students	643	276	42.9	225	52	174	51	11	40	18.3
Part-time students	92	76	81.8	73	83	10	3	4	-	3.4
Hispanic origin										
Total, 16 to 24 years	1,104	407	36.8	328	121	207	78	9	69	19.3
16 to 19 years	821	232	28.3	176	25	151	56	7	50	24.2
20 to 24 years	283	174	61.6	152	96	56	22	3	20	12.8
Men	550	216	39.2	151	69	81	65	4	60	30.0
Women	554	191	34.5	177	51	126	14	5	9	7.2
High school	642	147	22.8	92	10	82	55	7	48	37.4
College	462	260	56.2	236	111	126	24	3	21	9.1
Full-time students	360	174	48.2	150	58	92	24	3	20	13.7
Part-time students	102	86	84.7	87	53	34	-	-	-	-

See footnotes at end of table.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	January 1989									
	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	17,022	13,857	81.4	12,028	10,444	1,584	1,829	1,614	215	13.2
16 to 19 years	3,624	2,659	73.4	2,046	1,590	456	613	509	103	23.0
20 to 24 years	13,398	11,198	83.8	9,982	8,854	1,128	1,216	1,105	112	10.9
Less than 4 years of high school	4,235	2,820	66.6	2,121	1,711	411	899	611	88	24.8
4 years of high school	8,612	7,192	83.5	6,338	5,520	818	856	753	104	11.9
1 to 3 years of college	2,668	2,439	91.7	2,257	2,002	255	182	181	20	7.5
4 years of college or more	1,468	1,406	94.5	1,314	1,212	102	91	88	3	6.5
Men, 16 to 24 years	8,211	7,441	90.8	8,386	5,870	517	1,054	988	89	14.2
16 to 19 years	1,761	1,449	82.3	1,086	925	161	363	320	43	25.1
20 to 24 years	8,450	5,992	92.9	5,301	4,945	356	691	666	25	11.5
Less than 4 years of high school	2,254	1,860	82.5	1,421	1,240	180	439	403	36	23.8
4 years of high school	4,132	3,822	92.5	3,361	3,132	229	461	435	27	12.1
1 to 3 years of college	1,172	1,134	96.8	1,027	950	77	107	101	6	9.4
4 years of college or more	654	624	95.5	577	547	30	47	47	-	7.5
Women, 16 to 24 years	8,811	6,417	72.8	5,642	4,575	1,067	775	628	147	12.1
16 to 19 years	1,863	1,210	64.9	981	685	295	249	189	60	20.6
20 to 24 years	6,948	5,207	74.9	4,661	3,909	772	525	439	86	10.1
Less than 4 years of high school	1,981	960	48.5	700	470	230	260	209	51	27.1
4 years of high school	4,460	3,370	75.2	2,975	2,367	567	395	318	77	11.7
1 to 3 years of college	1,516	1,305	86.1	1,230	1,052	178	75	60	15	5.7
4 years of college or more	834	782	93.7	737	665	72	44	41	3	5.7
White										
Total, 16 to 24 years	13,950	11,697	83.8	10,337	8,991	1,346	1,380	1,201	156	11.6
16 to 19 years	2,978	2,307	77.5	1,841	1,423	418	466	397	69	20.2
20 to 24 years	10,974	9,390	85.6	8,496	7,568	928	894	804	90	9.5
Men	6,804	6,279	92.3	5,468	5,038	430	810	756	54	12.9
Women	7,146	5,418	75.8	4,869	3,953	916	549	445	105	10.1
Less than 4 years of high school	3,372	2,363	70.7	1,857	1,503	354	526	457	69	22.1
4 years of high school	7,027	6,002	85.4	5,393	4,694	699	609	542	68	10.1
1 to 3 years of college	2,244	2,063	91.9	1,914	1,719	195	149	130	19	7.2
4 years of college or more	1,307	1,249	95.6	1,173	1,076	97	76	73	3	6.1
Black										
Total, 16 to 24 years	2,594	1,852	71.4	1,431	1,219	212	421	368	53	22.7
16 to 19 years	564	306	54.2	172	141	31	134	102	32	43.8
20 to 24 years	2,030	1,546	76.2	1,259	1,078	181	287	267	21	18.6
Men	1,187	993	83.6	777	700	77	217	203	13	21.8
Women	1,406	859	61.1	654	519	136	204	165	39	23.8
Less than 4 years of high school	741	372	50.2	221	173	48	151	136	15	40.6
4 years of high school	1,378	1,062	77.1	830	722	108	233	197	36	21.9
1 to 3 years of college	366	316	86.0	288	236	52	28	26	2	9.0
4 years of college or more	107	101	94.6	92	88	4	9	9	-	6.9
Hispanic origin										
Total, 16 to 24 years	2,122	1,616	76.3	1,367	1,214	173	231	212	19	14.3
16 to 19 years	561	361	64.3	322	262	60	59	51	8	15.5
20 to 24 years	1,561	1,237	79.3	1,066	952	113	172	161	11	13.9
Men	1,122	1,023	91.2	886	830	55	138	127	11	13.5
Women	1,000	595	59.5	502	384	118	93	85	8	15.7
Less than 4 years of high school	1,066	771	72.2	653	555	98	118	112	6	15.3
4 years of high school	791	625	79.0	539	479	59	86	75	12	13.8
1 to 3 years of college	224	186	82.9	166	152	15	19	19	1	10.5
4 years of college or more	39	36	(?)	29	28	1	7	7	-	(?)

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.

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							
	Jan. 1988	Jan. 1989	Total		Employed		Unemployed			
			Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Number		Percent of labor force	
							Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,865	7,916	7,207	7,254	6,840	6,969	367	285	5.1	3.9
30 to 44 years	6,054	5,701	5,739	5,404	5,433	5,189	306	215	5.3	4.0
30 to 34 years	794	582	750	530	704	514	46	16	6.1	3.0
35 to 39 years	2,365	1,937	2,258	1,868	2,112	1,781	146	87	6.5	4.7
40 to 44 years	2,895	3,182	2,731	3,006	2,617	2,894	114	112	4.2	3.7
45 years and over	1,811	2,215	1,468	1,850	1,407	1,780	61	70	4.2	3.8
NONVETERANS										
Total, 30 to 44 years	19,996	20,988	18,801	19,767	17,879	18,836	922	931	4.9	4.7
30 to 34 years	8,981	9,219	8,499	8,713	8,019	8,311	480	402	5.6	4.6
35 to 39 years	6,598	7,177	6,201	6,761	5,942	6,418	259	343	4.2	5.1
40 to 44 years	4,417	4,592	4,101	4,293	3,918	4,107	183	186	4.5	4.3

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	January 1989							
	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	94,560	92,554	2,006	20,227	17,095	3,132	5,750	1,560
16 to 19 years	1,953	1,863	90	4,105	3,803	302	559	703
16 to 17 years	151	142	9	2,091	2,039	52	93	420
18 to 19 years	1,802	1,721	81	2,013	1,764	249	466	282
20 years and over	92,607	90,691	1,916	16,122	13,292	2,830	5,191	857
20 to 24 years	9,826	9,510	316	2,767	2,217	550	1,149	294
25 years and over	82,782	81,181	1,601	13,355	11,076	2,279	4,041	562
25 to 54 years	71,792	70,380	1,412	9,594	7,703	1,891	3,655	439
55 years and over	10,990	10,801	189	3,762	3,373	389	386	123
Men, 16 years and over	56,113	54,977	1,136	6,299	5,167	1,132	3,549	703
16 to 19 years	1,113	1,064	49	1,857	1,735	122	346	422
20 years and over	54,999	53,913	1,086	4,442	3,432	1,010	3,204	281
20 to 24 years	5,428	5,222	206	1,121	891	230	690	132
25 years and over	49,571	48,691	880	3,319	2,540	779	2,514	149
25 to 54 years	42,638	41,864	774	1,834	1,184	650	2,249	106
55 years and over	6,934	6,827	107	1,485	1,356	129	265	43
Women, 16 years and over	38,446	37,576	870	13,927	11,928	1,999	2,200	857
16 to 19 years	839	799	40	2,247	2,068	179	213	281
20 years and over	37,607	36,777	830	11,680	9,860	1,820	1,987	576
20 to 24 years	4,398	4,288	110	1,646	1,326	320	459	162
25 years and over	33,210	32,490	720	10,034	8,534	1,500	1,527	413
25 to 54 years	29,154	28,516	638	7,759	6,519	1,240	1,407	332
55 years and over	4,055	3,974	81	2,276	2,016	260	121	81
White								
Men, 16 years and over	49,276	48,286	990	5,529	4,573	956	2,728	568
16 to 19 years	983	941	42	1,662	1,554	108	268	332
20 years and over	48,292	47,344	948	3,866	3,019	847	2,460	235
20 to 24 years	4,650	4,489	161	936	756	180	523	121
25 years and over	43,644	42,856	788	2,931	2,264	667	1,937	115
25 to 54 years	37,400	36,711	689	1,565	1,013	552	1,717	77
55 years and over	6,243	6,144	99	1,367	1,252	115	219	38
Women, 16 years and over	32,265	31,568	697	12,436	10,799	1,637	1,543	676
16 to 19 years	762	724	38	1,990	1,823	167	166	198
20 years and over	31,503	30,844	659	10,445	8,976	1,469	1,376	478
20 to 24 years	3,777	3,687	90	1,415	1,158	257	314	135
25 years and over	27,725	27,157	568	9,030	7,818	1,212	1,062	343
25 to 54 years	24,229	23,730	499	7,019	6,005	1,014	962	281
55 years and over	3,496	3,427	69	2,011	1,813	198	100	62
Black								
Men, 16 years and over	5,205	5,081	124	544	397	147	702	107
16 to 19 years	110	105	5	136	128	8	72	77
20 years and over	5,096	4,976	120	408	269	139	630	30
20 to 24 years	655	615	40	126	80	46	143	4
25 years and over	4,442	4,362	80	283	189	94	488	26
25 to 54 years	3,922	3,850	72	186	107	79	446	21
55 years and over	520	512	8	96	82	14	42	5
Women, 16 years and over	4,819	4,664	155	1,137	820	317	603	158
16 to 19 years	60	58	2	183	171	12	40	76
20 years and over	4,758	4,605	153	954	649	305	563	82
20 to 24 years	525	508	17	174	114	60	130	26
25 years and over	4,235	4,098	137	779	534	245	434	57
25 to 54 years	3,803	3,679	124	569	372	197	415	41
55 years and over	432	419	13	209	162	47	19	16

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

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

(Numbers in thousands)

Family relationship	January 1989									
	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	98,015	66.0	92,184	5,831	5.9	50,532	22,465	8,201	2,265	17,601
Husbands	39,629	77.8	38,205	1,424	3.6	11,277	221	189	954	9,913
With employed wife	25,860	91.4	25,002	857	3.3	2,428	80	105	367	1,875
With unemployed wife	988	90.2	859	129	13.0	107	-	5	17	85
With wife not in labor force	12,781	59.4	12,343	438	3.4	8,742	140	79	569	7,953
Wives	29,383	57.7	28,288	1,095	3.7	21,523	17,574	333	389	3,227
With employed husband	25,862	67.7	25,002	859	3.3	12,343	11,108	269	143	825
With unemployed husband	986	69.2	857	129	13.0	438	398	17	5	19
With husband not in labor force	2,535	22.5	2,428	107	4.2	8,742	6,069	48	241	2,384
Relatives in married-couple families	12,437	60.8	10,972	1,465	11.8	8,019	649	5,456	269	1,645
16 to 19 years	4,545	49.2	3,906	639	14.1	4,699	92	4,249	10	348
20 to 24 years	4,485	73.9	3,983	502	11.2	1,581	103	1,113	26	339
25 years and over	3,407	66.2	3,083	324	9.5	1,739	454	94	233	958
Women who maintain families	6,916	62.3	6,353	563	8.1	4,187	2,887	200	195	905
Relatives in families maintained by women	5,675	59.8	4,754	921	16.2	3,819	718	1,681	314	1,106
16 to 19 years	1,397	45.9	1,042	355	25.4	1,650	97	1,373	7	173
20 to 24 years	1,588	76.2	1,316	271	17.1	496	99	244	34	119
25 years and over	2,691	61.7	2,396	295	11.0	1,673	522	64	273	814
Men who maintain families	2,181	77.1	2,019	162	7.4	648	54	37	75	482
Relatives in families maintained by men	1,795	62.9	1,594	201	11.2	1,059	362	305	69	323
16 to 19 years	337	54.5	264	73	21.6	281	8	231	1	42
20 to 24 years	527	79.0	476	51	9.7	140	44	46	4	46
25 years and over	931	59.3	854	77	8.3	638	310	28	64	235

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	
	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989
Total, 16 years and over	4,364	4,252	6.6	6.4	3,239	3,057	6.0	5.5
Married, spouse present	1,767	1,578	4.2	3.8	1,317	1,204	4.5	3.9
Widowed, divorced, or separated	553	537	8.5	8.0	735	685	6.9	6.2
Single (never married)	2,044	2,137	11.7	11.9	1,187	1,168	8.6	8.4
White, 16 years and over	3,454	3,295	6.0	5.7	2,355	2,218	5.2	4.7
Married, spouse present	1,487	1,318	4.0	3.5	1,070	999	4.1	3.7
Widowed, divorced, or separated	446	398	8.2	7.1	532	481	6.2	5.5
Single (never married)	1,521	1,580	10.4	10.6	753	739	6.8	6.6
Black, 16 years and over	788	809	12.0	12.3	782	761	11.9	11.3
Married, spouse present	204	203	6.4	6.4	183	181	7.5	7.4
Widowed, divorced, or separated	96	119	10.5	12.4	191	185	10.3	9.5
Single (never married)	468	487	20.2	20.0	409	395	18.1	17.0
Total, 25 years and over	2,817	2,663	5.2	4.8	2,088	1,941	4.8	4.3
Married, spouse present	1,618	1,448	4.1	3.6	1,062	1,006	3.9	3.5
Widowed, divorced, or separated	513	519	8.1	8.0	657	611	6.4	5.8
Single (never married)	686	696	8.3	8.0	368	325	6.1	5.2
White, 25 years and over	2,267	2,051	4.8	4.2	1,524	1,406	4.2	3.7
Married, spouse present	1,363	1,207	3.8	3.3	856	825	3.6	3.3
Widowed, divorced, or separated	414	381	7.8	7.0	474	433	5.8	5.2
Single (never married)	492	463	7.3	6.6	196	148	4.3	3.1
Black, 25 years and over	443	513	8.7	9.8	492	489	9.3	8.9
Married, spouse present	183	183	6.0	6.0	157	159	6.9	7.0
Widowed, divorced, or separated	91	118	10.0	12.7	172	160	9.7	8.5
Single (never married)	170	211	14.5	16.5	163	171	13.1	12.7

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989
Total, 16 years and over	7,603	7,309	6.3	6.0	6.6	6.4	6.0	5.5
Managerial and professional specialty	615	625	2.1	2.1	2.2	2.0	2.0	2.2
Executive, administrative, and managerial	333	403	2.4	2.7	2.4	2.6	2.4	2.9
Professional specialty	281	222	1.9	1.4	1.9	1.2	1.8	1.6
Technical, sales, and administrative support	1,616	1,608	4.4	4.3	3.6	4.4	4.8	4.3
Technicians and related support	119	105	3.3	2.8	3.0	2.6	3.6	3.1
Sales occupations	749	775	5.3	5.4	3.6	4.1	7.1	6.6
Administrative support, including clerical	748	729	3.9	3.8	3.9	5.7	3.9	3.4
Service occupations	1,260	1,167	7.7	7.0	7.3	7.0	8.0	7.0
Private household	51	49	5.5	5.1	(¹)	(¹)	5.3	5.0
Protective service	89	94	4.5	4.6	4.0	4.1	7.5	7.0
Service, except private household and protective	1,120	1,024	8.3	7.5	8.5	8.1	8.2	7.2
Precision production, craft, and repair	980	977	6.9	8.7	6.8	6.7	8.2	6.4
Mechanics and repairers	183	188	4.1	3.9	4.1	3.8	3.8	7.4
Construction trades	564	593	10.5	11.0	10.2	10.9	21.6	17.0
Other precision production, craft, and repair	233	196	5.4	4.4	4.9	4.2	7.1	5.2
Operators, fabricators, and laborers	1,998	1,944	10.4	10.0	10.8	9.7	9.4	10.6
Machine operators, assemblers, and inspectors	779	798	9.0	8.9	8.4	7.4	9.7	10.9
Transportation and material moving occupations	440	412	8.7	8.1	9.0	8.3	4.9	6.2
Handlers, equipment cleaners, helpers, and laborers	779	734	14.4	13.5	15.1	13.9	10.4	11.4
Construction laborers	283	204	30.1	24.5	29.9	24.6	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	495	530	11.1	11.5	11.4	11.6	9.7	11.4
Farming, forestry, and fishing	331	287	10.3	9.2	9.9	8.8	12.3	11.1
No previous work experience	760	675	-	-	-	-	-	-
16 to 19 years	516	431	-	-	-	-	-	-
20 to 24 years	145	132	-	-	-	-	-	-
25 years and over	98	111	-	-	-	-	-	-

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-13. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989
Total, 16 years and over	7,603	7,309	6.3	6.0	6.6	6.4	6.0	5.5
Nonagricultural private wage and salary workers	5,853	5,750	6.5	6.3	6.8	6.7	6.2	5.8
Mining	70	49	8.8	7.2	9.3	7.7	5.9	4.2
Construction	983	874	16.2	14.2	17.0	14.9	7.6	6.9
Manufacturing	1,330	1,340	6.2	6.0	5.9	5.2	6.9	7.6
Durable goods	769	751	6.0	5.7	6.1	5.5	5.7	6.2
Lumber and wood products	64	67	8.6	7.8	10.1	8.9	-	2.7
Furniture and fixtures	59	47	9.4	6.9	9.6	5.5	8.7	9.9
Stone, clay, and glass products	48	52	8.3	8.2	9.0	8.6	5.7	6.6
Primary metal industries	22	40	2.8	4.5	2.8	4.7	2.8	3.8
Fabricated metal products	82	107	5.8	7.3	5.9	6.4	5.4	10.3
Machinery, except electrical	120	119	4.8	4.5	5.1	4.3	4.0	5.2
Electrical machinery, equipment, and supplies	105	130	4.8	5.8	3.4	6.4	6.8	5.0
Transportation equipment	205	125	7.6	5.0	7.5	5.1	7.8	4.8
Automobiles	139	80	10.8	6.5	11.2	6.7	9.4	5.6
Other transportation equipment	65	44	4.6	3.6	4.2	3.5	6.6	4.0
Professional and photographic equipment	25	32	3.5	4.6	4.4	2.9	2.3	6.7
Other durable goods industries	39	31	7.4	5.9	7.2	2.3	7.7	10.8
Nondurable goods	562	589	6.5	6.4	5.4	4.7	8.1	8.8
Food and kindred products	183	157	10.5	7.9	9.7	5.1	12.0	13.7
Textile mill products	42	38	5.7	5.3	2.6	2.6	8.6	8.5
Apparel and other textile products	102	126	8.3	10.0	7.8	7.1	8.5	10.7
Paper and allied products	17	25	2.5	3.5	2.1	2.4	3.6	6.8
Printing and publishing	78	100	4.3	5.3	3.4	5.3	5.5	5.3
Chemicals and allied products	49	46	3.8	3.4	3.2	3.0	5.4	4.2
Rubber and miscellaneous plastics products	53	49	7.1	6.0	6.7	4.9	7.8	7.9
Other nondurable goods industries	37	48	9.7	11.6	7.3	11.3	15.0	12.8
Transportation and public utilities	272	279	4.3	4.4	4.6	4.5	3.4	4.0
Transportation	214	223	5.9	5.8	6.2	6.2	4.7	4.9
Communications and other public utilities	58	56	2.1	2.2	2.0	1.7	2.4	3.0
Wholesale and retail trade	1,564	1,618	6.8	7.0	6.0	6.5	7.6	7.4
Wholesale trade	199	205	4.5	4.6	3.7	4.7	6.2	4.4
Retail trade	1,364	1,414	7.3	7.5	6.8	7.2	7.8	7.8
Finance, insurance, and real estate	232	271	3.2	3.8	2.4	4.0	3.7	3.6
Service industries	1,403	1,318	5.7	5.2	5.6	5.9	5.7	4.7
Professional services	535	415	3.9	2.9	3.4	3.1	4.1	2.8
Other service industries	868	903	8.0	8.0	7.4	8.0	8.6	8.0
Agricultural wage and salary workers	264	224	16.2	13.6	15.8	13.5	17.4	13.8
Government, self-employed, and unpaid family workers	726	661	2.6	2.3	2.9	2.5	2.3	2.1
No previous work experience	760	675	-	-	-	-	-	-

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	
	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989
NUMBER OF UNEMPLOYED												
Total unemployed	7,603	7,309	3,674	3,485	2,684	2,563	1,244	1,261	5,809	5,514	1,550	1,570
Job losers	3,770	3,701	2,445	2,344	1,081	1,038	245	320	2,950	2,848	712	753
On layoff	1,272	1,210	868	789	328	319	76	102	1,072	1,011	158	181
Other job losers	2,498	2,491	1,577	1,555	753	719	169	218	1,878	1,837	554	572
Job leavers	1,133	1,067	484	445	496	465	153	158	882	862	219	164
Reentrants	1,940	1,866	648	590	961	922	331	353	1,469	1,351	402	456
New entrants	759	675	97	106	146	138	516	431	508	454	216	197
PERCENT DISTRIBUTION												
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	49.6	50.7	66.5	67.2	40.2	40.5	19.7	25.3	50.8	51.6	46.0	48.0
On layoff	16.7	16.6	23.6	22.6	12.2	12.5	6.1	8.0	18.5	18.3	10.2	11.5
Other job losers	32.9	34.1	42.9	44.6	28.0	28.0	13.6	17.3	32.3	33.3	35.8	36.4
Job leavers	14.9	14.6	13.2	12.8	18.5	18.1	12.3	12.5	15.2	15.6	14.1	10.4
Reentrants	25.5	25.5	17.6	16.9	35.8	36.0	26.6	28.0	25.3	24.5	26.0	29.0
New entrants	10.0	9.2	2.6	3.0	5.5	5.4	41.5	34.2	8.7	8.2	13.9	12.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	3.2	3.0	3.9	3.8	2.2	2.0	3.3	4.4	2.8	2.7	5.5	5.7
Job leavers .....	.9	.9	.8	.7	1.0	.9	2.1	2.2	.9	.8	1.7	1.2
Reentrants	1.6	1.5	1.0	.9	1.9	1.8	4.5	4.8	1.4	1.3	3.1	3.4
New entrants .....	.6	.6	.2	.2	.3	.3	7.0	5.9	.5	.4	1.7	1.5

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Reason, sex, and age	January 1989						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over	7,309	100.0	47.4	30.9	21.7	11.2	10.5
Job losers	3,701	100.0	41.3	33.4	25.2	12.3	12.9
On layoff	1,210	100.0	53.5	34.9	11.6	6.5	5.1
Other job losers	2,491	100.0	35.4	32.7	31.9	15.2	16.7
Job leavers	1,067	100.0	50.3	31.1	18.7	9.6	9.1
Reentrants	1,866	100.0	55.3	27.5	17.3	10.0	7.3
New entrants	675	100.0	54.3	28.4	19.3	10.6	6.7
Men, 20 years and over	3,485	100.0	41.1	31.9	27.0	11.8	15.3
Job losers	2,344	100.0	38.6	33.6	27.8	11.8	16.0
On layoff	789	100.0	51.2	35.8	13.0	6.7	6.3
Other job losers	1,555	100.0	32.2	32.5	35.2	14.4	20.9
Job leavers	445	100.0	41.6	31.0	27.4	10.8	16.5
Reentrants	590	100.0	52.3	25.6	22.1	12.2	9.9
New entrants	106	100.0	31.4	31.1	37.4	12.3	25.2
Women, 20 years and over	2,563	100.0	48.3	32.8	18.9	11.2	7.8
Job losers	1,038	100.0	39.2	37.1	23.7	14.2	9.5
On layoff	319	100.0	48.5	40.0	11.5	7.8	3.8
Other job losers	719	100.0	35.0	35.8	29.2	17.1	12.0
Job leavers	465	100.0	51.7	33.2	15.1	10.2	4.9
Reentrants	922	100.0	56.4	28.4	15.2	8.1	7.0
New entrants	138	100.0	51.2	28.3	20.5	11.4	9.1
Both sexes, 16 to 19 years	1,261	100.0	63.0	24.4	12.6	9.6	3.0
Job losers	320	100.0	68.3	19.9	11.7	10.1	1.6
On layoff	102	100.0	87.0	12.4	.8	.6	-
Other job losers	218	100.0	59.6	23.4	16.9	14.5	2.4
Job leavers	158	100.0	70.4	25.0	4.6	4.4	.2
Reentrants	353	100.0	57.3	27.9	14.8	11.2	3.6
New entrants	431	100.0	60.9	24.6	14.4	9.9	4.6

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	
	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989
Total, 16 years and over	7,603	7,309	100.0	100.0	6,027	5,750	100.0	100.0
Less than 5 weeks	3,395	3,464	44.8	47.4	2,431	2,424	40.3	42.2
5 to 14 weeks	2,397	2,258	31.5	30.9	1,989	1,898	33.0	33.0
5 to 10 weeks	1,704	1,870	22.4	22.8	1,407	1,391	23.3	24.2
11 to 14 weeks	693	588	9.1	8.0	582	506	9.7	8.8
15 weeks and over	1,811	1,588	23.8	21.7	1,807	1,427	26.7	24.8
15 to 26 weeks	904	817	11.9	11.2	791	706	13.1	12.3
27 weeks and over	907	770	11.9	10.5	815	722	13.5	12.8
27 to 51 weeks	338	308	4.4	4.2	296	298	4.9	5.2
52 weeks and over	570	461	7.5	6.3	520	424	8.6	7.4
Average (mean) duration, in weeks	13.8	12.3	-	-	15.1	13.8	-	-
Median duration, in weeks	6.2	5.6	-	-	7.2	6.7	-	-

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	
	January 1989							Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989
Total, 16 years and over	7,309	3,464	2,258	817	770	12.3	5.6	44.6	47.4	23.8	21.7
16 to 19 years	1,261	794	308	121	38	7.0	4.0	57.3	63.0	14.0	12.6
20 to 24 years	1,443	763	426	164	91	9.4	4.7	52.1	52.8	19.7	17.6
25 to 34 years	1,997	916	646	209	226	12.4	5.9	42.2	45.9	23.4	21.8
35 to 44 years	1,280	508	445	165	163	14.6	7.1	37.9	39.7	28.5	25.6
45 to 54 years	817	332	260	82	143	16.5	7.6	35.5	40.6	30.9	27.6
55 to 64 years	429	127	141	67	95	21.8	9.6	34.3	29.5	38.3	37.7
65 years and over	80	26	32	8	15	16.5	6.8	40.9	31.8	29.8	28.2
Men, 16 years and over	4,252	1,936	1,271	485	561	13.9	6.0	38.5	45.5	26.5	24.6
16 to 19 years	767	504	161	75	28	7.0	3.8	52.5	65.6	15.4	13.4
20 to 24 years	822	419	234	97	72	10.4	4.9	45.3	51.0	24.0	20.6
25 to 34 years	1,111	470	374	118	150	14.0	6.6	36.3	42.3	24.9	24.1
35 to 44 years	753	288	266	88	111	15.6	7.6	30.4	38.3	33.0	26.5
45 to 54 years	491	170	147	52	121	21.1	9.1	30.6	34.7	32.3	35.4
55 to 64 years	278	77	83	48	70	24.5	10.9	30.0	27.6	39.4	42.6
65 years and over	30	9	7	6	8	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,057	1,528	988	332	209	10.1	5.0	52.9	50.0	20.2	17.7
16 to 19 years	494	291	147	46	10	7.0	4.2	63.3	58.8	12.3	11.4
20 to 24 years	621	344	193	67	18	8.0	4.5	62.0	55.3	13.6	13.7
25 to 34 years	886	446	272	92	76	10.3	5.0	49.9	50.3	21.5	18.9
35 to 44 years	527	220	179	77	52	13.3	6.5	46.5	41.7	23.4	24.3
45 to 54 years	326	161	113	30	22	9.6	5.2	42.6	49.4	28.9	15.8
55 to 64 years	152	50	58	19	24	16.9	8.4	44.4	33.0	35.7	28.7
65 years and over	50	17	25	1	7	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	5,514	2,689	1,717	570	538	11.6	5.3	46.9	48.8	22.0	20.1
Men	3,295	1,524	1,012	355	405	13.2	5.7	41.2	46.2	24.7	23.0
Women	2,218	1,165	705	215	133	9.2	4.8	55.2	52.5	18.1	15.7
Black, 16 years and over	1,570	666	476	220	207	14.7	7.0	37.2	42.5	29.7	27.2
Men	809	337	229	107	135	16.5	7.7	28.2	41.7	33.5	29.9
Women	761	329	247	113	72	12.8	6.5	46.0	43.2	25.9	24.3
Men, 16 years and over:											
Married, spouse present	1,578	624	512	199	243	15.3	7.2	33.9	39.6	29.0	28.0
Widowed, divorced, or separated	537	198	178	57	105	20.0	8.4	33.2	36.8	33.7	30.1
Single (never married)	2,137	1,114	581	229	213	11.4	4.8	44.0	52.1	22.4	20.7
Women, 16 years and over:											
Married, spouse present	1,204	628	391	116	70	9.1	4.8	52.7	52.1	18.9	15.4
Widowed, divorced, or separated	685	287	247	75	75	12.3	6.7	46.1	41.9	25.5	22.0
Single (never married)	1,168	614	350	141	64	9.7	4.8	57.3	52.5	18.4	17.5

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	
								Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989
	January 1989										
OCCUPATION											
Managerial and professional specialty	625	263	186	90	86	14.7	7.6	36.6	42.0	31.3	28.2
Technical, sales, and administrative support	1,608	824	483	158	142	10.7	4.9	49.9	51.2	21.6	18.7
Service occupations	1,167	609	324	149	87	10.8	4.8	48.6	52.1	23.4	20.2
Precision production, craft, and repair	977	444	329	83	122	13.6	5.9	40.3	45.4	24.6	20.9
Operators, fabricators, and laborers	1,944	819	648	229	247	13.8	6.6	40.2	42.2	24.5	24.5
Farming, forestry, and fishing	287	120	108	35	25	11.3	6.4	38.0	41.6	23.3	20.8
INDUSTRY¹											
Agriculture	224	97	85	26	15	10.8	6.3	39.3	43.5	19.4	18.4
Construction	903	425	345	52	81	11.2	5.5	42.2	47.1	19.6	14.7
Manufacturing	1,353	525	444	191	194	15.8	7.4	38.2	38.8	30.0	28.4
Durable goods	764	284	230	137	113	15.9	8.3	32.7	37.2	33.7	32.7
Nondurable goods	589	241	214	54	81	15.6	6.8	45.7	40.8	25.0	22.9
Transportation and public utilities	310	141	102	30	37	13.0	6.1	37.3	45.4	29.5	21.6
Wholesale and retail trade	1,621	865	453	161	142	10.6	4.7	53.5	53.4	19.6	18.7
Finance and service industries	1,820	850	545	230	195	12.0	6.0	43.2	46.7	24.4	23.4
Public administration	177	81	52	20	24	13.8	5.7	33.9	45.8	33.6	25.0
No previous work experience	675	366	178	71	59	10.9	4.6	52.7	54.3	20.9	19.3

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	January 1989								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	7,309	5,961	23.8	7.6	73.8	36.1	17.9	5.5	1.65
16 to 19 years	1,261	1,144	15.8	2.9	81.1	25.6	12.6	2.6	1.41
20 to 24 years	1,443	1,252	23.8	6.4	70.0	34.0	17.7	6.4	1.58
25 to 34 years	1,997	1,557	27.0	7.2	75.7	38.0	19.9	4.5	1.72
35 to 44 years	1,280	1,005	26.3	13.4	70.5	44.1	20.4	5.3	1.80
45 to 54 years	817	624	28.5	11.2	73.4	39.3	17.9	3.7	1.74
55 to 64 years	429	317	20.2	6.6	65.6	41.6	21.1	3.8	1.59
65 years and over	80	63	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Men, 16 years and over	4,252	3,331	25.5	7.2	74.7	33.8	20.8	6.7	1.69
16 to 19 years	767	695	15.8	2.9	82.9	22.7	14.8	2.4	1.42
20 to 24 years	822	688	27.6	4.8	67.4	34.2	21.7	8.4	1.64
25 to 34 years	1,111	805	30.1	7.5	76.6	34.4	23.6	6.1	1.78
35 to 44 years	753	559	31.1	13.1	71.4	41.7	25.6	8.9	1.92
45 to 54 years	491	351	27.9	10.3	77.5	37.6	19.4	9.1	1.82
55 to 64 years	278	211	14.2	8.1	68.2	37.0	17.5	9.0	1.54
65 years and over	30	23	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,057	2,630	21.6	8.3	72.5	39.0	14.3	4.0	1.60
16 to 19 years	494	449	15.8	2.9	78.4	30.1	9.1	2.9	1.39
20 to 24 years	621	564	19.1	8.3	73.0	33.9	12.9	3.9	1.51
25 to 34 years	866	752	23.8	6.9	74.7	41.8	16.0	2.9	1.66
35 to 44 years	527	446	20.2	13.9	69.5	47.1	13.9	4.5	1.69
45 to 54 years	326	273	29.3	12.5	68.1	41.4	15.8	8.1	1.75
55 to 64 years	152	106	32.1	3.8	60.4	50.9	28.3	3.8	1.79
65 years and over	50	40	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	5,514	4,394	22.5	7.9	75.0	36.5	17.8	5.8	1.65
Men	3,295	2,524	25.1	8.0	75.6	33.9	20.2	7.1	1.70
Women	2,218	1,870	18.9	7.8	74.1	40.0	14.6	4.0	1.59
Black, 16 years and over	1,570	1,371	28.0	7.0	72.1	34.9	17.2	3.9	1.63
Men	809	677	27.2	4.6	73.7	33.8	21.0	4.7	1.65
Women	761	694	28.8	9.4	70.5	35.9	13.5	3.2	1.61

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	January 1989								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	7,309	5,961	23.8	7.6	73.8	36.1	17.9	5.5	1.65
Job losers ¹	3,701	2,499	30.3	8.1	75.9	37.2	20.9	5.2	1.78
Job leavers	1,067	1,054	21.8	8.5	71.6	44.3	19.3	5.4	1.71
Reentrants	1,866	1,742	19.3	8.0	71.9	34.0	14.4	6.4	1.54
New entrants	675	666	14.3	3.8	74.2	24.5	14.0	4.2	1.35
Men, 16 years and over	4,252	3,331	25.5	7.2	74.7	33.8	20.8	6.7	1.69
Job losers ¹	2,556	1,706	29.7	7.6	77.7	35.2	22.3	5.9	1.78
Job leavers	534	522	27.4	10.3	67.8	43.9	25.7	6.3	1.81
Reentrants	792	736	19.8	6.3	73.9	28.0	15.1	10.3	1.53
New entrants	371	367	14.2	2.5	72.5	24.5	18.3	3.8	1.36
Women, 16 years and over	3,057	2,630	21.6	8.3	72.5	39.0	14.3	4.0	1.60
Job losers ¹	1,146	792	31.7	9.1	72.2	41.5	17.9	3.8	1.76
Job leavers	532	532	16.4	6.8	75.4	44.7	12.8	4.5	1.61
Reentrants	1,074	1,005	18.9	9.5	70.3	38.5	13.8	3.5	1.55
New entrants	305	300	14.3	5.0	76.0	24.3	8.7	4.7	1.33

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

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry and age	Total		Men		Women	
	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989
All industries	112,139	114,786	61,458	62,412	50,681	52,374
16 to 19 years	6,150	6,057	3,101	2,971	3,048	3,087
16 to 17 years	2,406	2,242	1,210	1,046	1,195	1,196
18 to 19 years	3,744	3,816	1,891	1,925	1,853	1,891
20 to 24 years	13,027	12,593	6,663	6,549	6,364	6,044
25 to 54 years	78,556	81,384	43,335	44,472	35,222	36,912
25 to 34 years	33,082	33,665	18,384	18,633	14,697	15,032
35 to 44 years	27,572	28,885	15,043	15,578	12,529	13,306
45 to 54 years	17,903	18,835	9,907	10,261	7,996	8,574
55 to 64 years	11,366	11,510	6,588	6,508	4,778	5,002
55 to 59 years	6,794	6,867	3,898	3,874	2,896	2,993
60 to 64 years	4,572	4,643	2,690	2,633	1,882	2,010
65 years and over	3,040	3,241	1,771	1,913	1,269	1,328
Agriculture	2,789	2,831	2,220	2,176	569	655
16 to 19 years	173	171	143	122	30	49
16 to 17 years	81	60	68	50	13	11
18 to 19 years	92	111	75	72	17	39
20 to 24 years	299	316	248	247	52	68
25 to 54 years	1,660	1,703	1,283	1,286	376	417
25 to 34 years	707	762	569	589	138	173
35 to 44 years	504	520	381	401	123	118
45 to 54 years	449	421	333	297	116	125
55 to 64 years	398	413	321	326	77	87
55 to 59 years	211	224	168	185	44	39
60 to 64 years	187	190	153	142	33	48
65 years and over	260	227	225	194	34	33
Nonagricultural industries	109,350	111,955	59,238	60,236	50,112	51,719
16 to 19 years	5,977	5,886	2,958	2,849	3,019	3,037
16 to 17 years	2,325	2,181	1,142	996	1,182	1,185
18 to 19 years	3,652	3,705	1,816	1,853	1,836	1,852
20 to 24 years	12,728	12,277	6,415	6,301	6,313	5,976
25 to 54 years	76,897	79,682	42,052	43,186	34,846	36,496
25 to 34 years	32,375	32,903	17,815	18,044	14,559	14,859
35 to 44 years	27,068	28,365	14,662	15,177	12,406	13,188
45 to 54 years	17,454	18,414	9,574	9,964	7,880	8,449
55 to 64 years	10,968	11,097	6,267	6,181	4,701	4,915
55 to 59 years	6,583	6,643	3,730	3,689	2,852	2,954
60 to 64 years	4,386	4,453	2,536	2,492	1,849	1,961
65 years and over	2,780	3,014	1,546	1,719	1,234	1,294

**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	
	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989
Total	112,139	114,786	61,458	62,412	58,357	59,442	50,681	52,374	47,633	49,287
Managerial and professional specialty	28,503	29,810	15,846	16,243	15,735	16,161	12,657	13,567	12,556	13,451
Executive, administrative, and managerial	13,579	14,476	8,319	8,703	8,265	8,858	5,260	5,773	5,220	5,720
Officials and administrators, public administration	571	576	348	364	345	362	225	212	225	211
Other executive, administrative, and managerial	9,348	10,040	6,123	6,539	6,081	6,503	3,225	3,501	3,196	3,456
Management-related occupations	3,660	3,861	1,849	1,800	1,839	1,793	1,810	2,061	1,800	2,053
Professional specialty	14,925	15,333	7,528	7,540	7,470	7,503	7,397	7,793	7,336	7,731
Engineers	1,856	1,724	1,729	1,627	1,727	1,627	127	97	127	96
Mathematical and computer scientists	655	624	435	519	435	518	220	305	220	305
Natural scientists	396	389	308	286	308	285	88	103	88	103
Health diagnosing occupations	779	791	654	658	654	658	125	134	125	132
Health assessment and treating occupations	2,083	2,191	319	332	317	332	1,784	1,859	1,760	1,856
Teachers, college and university	717	729	449	454	447	453	268	276	267	276
Teachers, except college and university	3,944	4,141	1,062	1,139	1,053	1,128	2,882	3,002	2,863	2,974
Lawyers and judges	767	737	628	583	624	583	139	153	138	154
Other professional specialty occupations	3,728	3,807	1,944	1,942	1,906	1,919	1,784	1,865	1,747	1,835
Technical, sales, and administrative support	35,213	35,430	12,369	12,527	11,748	11,897	22,844	22,902	21,123	21,131
Technicians and related support	3,466	3,585	1,790	1,887	1,750	1,875	1,676	1,698	1,658	1,673
Health technologists and technicians	1,147	1,279	172	243	168	243	974	1,036	966	1,020
Engineering and science technicians	1,129	1,157	902	922	873	915	227	235	224	231
Technicians, except health, engineering, and science	1,190	1,149	716	722	709	717	475	427	468	422
Sales occupations	13,269	13,624	6,777	6,946	6,417	6,521	6,491	6,678	5,489	5,591
Supervisors and proprietors	3,548	3,647	2,405	2,427	2,381	2,411	1,144	1,219	1,115	1,197
Sales representatives, finance and business services	2,305	2,342	1,373	1,362	1,361	1,352	932	980	904	936
Sales representatives, commodities, except retail	1,486	1,589	1,205	1,277	1,199	1,270	281	312	271	306
Sales workers, retail and personal services	5,892	5,992	1,785	1,864	1,466	1,476	4,107	4,129	3,170	3,113
Sales-related occupations	39	54	10	15	10	11	29	38	29	39
Administrative support, including clerical	18,478	18,221	3,802	3,695	3,580	3,501	14,676	14,527	13,977	13,868
Supervisors	726	745	311	312	309	312	415	432	415	422
Computer equipment operators	913	876	301	317	291	305	612	559	574	531
Secretaries, stenographers, and typists	5,022	4,793	80	99	76	92	4,942	4,694	4,768	4,525
Financial records processing	2,375	2,366	229	213	218	209	2,146	2,173	2,092	2,132
Mail and message distributing	926	1,018	582	626	570	603	344	393	322	375
Other administrative support, including clerical	8,517	8,403	2,299	2,127	2,117	1,980	6,217	6,276	5,805	5,883
Service occupations	15,136	15,473	6,064	5,944	5,201	5,127	9,072	9,529	8,106	8,542
Private household	877	902	46	28	36	17	828	874	705	747
Protective service	1,912	1,979	1,662	1,694	1,626	1,651	250	285	233	276
Service, except private household and protective	12,347	12,593	4,354	4,223	3,540	3,459	7,993	8,370	7,168	7,520
Food service	5,129	5,252	1,997	1,963	1,375	1,384	3,132	3,290	2,533	2,705
Health service	1,961	2,029	250	191	237	178	1,711	1,838	1,648	1,747
Cleaning and building service	2,881	2,855	1,683	1,636	1,547	1,516	1,198	1,218	1,139	1,170
Personal service	2,377	2,457	424	432	381	381	1,954	2,025	1,849	1,897
Precision production, craft, and repair	13,193	13,658	12,033	12,437	11,754	12,182	1,160	1,221	1,119	1,206
Mechanics and repairers	4,297	4,627	4,156	4,466	4,072	4,370	141	160	139	157
Construction trades	4,828	4,790	4,721	4,703	4,584	4,592	105	87	101	85
Other precision production, craft, and repair	4,069	4,241	3,155	3,268	3,089	3,220	914	973	879	964
Operators, fabricators, and laborers	17,207	17,574	12,687	12,905	11,817	11,860	4,520	4,670	4,329	4,508
Machine operators, assemblers, and inspectors	7,926	8,180	4,841	4,840	4,477	4,657	3,285	3,339	3,195	3,264
Manufacturing industries	6,583	6,789	3,818	3,993	3,667	3,864	2,765	2,798	2,705	2,736
Durable goods	3,623	3,787	2,469	2,600	2,383	2,529	1,154	1,187	1,138	1,157
Nondurable goods	2,960	3,002	1,349	1,393	1,304	1,334	1,611	1,609	1,568	1,579
Nonmanufacturing industries	1,343	1,390	823	847	790	794	520	544	489	526
Transportation and material moving occupations	4,644	4,687	4,192	4,214	4,075	4,101	452	473	436	465
Motor vehicle operators	3,523	3,470	3,122	3,061	3,022	2,957	402	409	385	402
Other transportation and material moving occupations	1,121	1,217	1,070	1,153	1,053	1,145	51	64	51	63
Handlers, equipment cleaners, helpers, and laborers	4,636	4,707	3,854	3,851	3,065	3,102	782	857	698	779
Construction laborers	658	628	645	612	588	543	12	15	12	15
Other handlers, equipment cleaners, helpers, and laborers	3,979	4,081	3,209	3,239	2,477	2,558	770	842	686	764
Farming, forestry, and fishing	2,888	2,841	2,459	2,356	2,301	2,214	429	485	400	448
Farm operators and managers	1,263	1,183	1,084	1,000	1,079	989	179	183	179	180
Other farming, forestry, and fishing occupations	1,625	1,658	1,376	1,355	1,222	1,226	249	302	221	269

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989
TOTAL						
Total, 16 years and over (thousands)	112,139	114,786	61,458	62,412	50,681	52,374
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	25.4	26.0	25.8	26.0	25.0	25.9
Executive, administrative, and managerial	12.1	12.6	13.5	13.9	10.4	11.0
Professional specialty	13.3	13.4	12.2	12.1	14.6	14.9
Technical, sales, and administrative support	31.4	30.9	20.1	20.1	45.1	43.7
Technicians and related support	3.1	3.1	2.9	3.0	3.3	3.2
Sales occupations	11.8	11.9	11.0	11.1	12.8	12.8
Administrative support, including clerical	16.5	15.9	6.2	5.9	29.0	27.7
Service occupations	13.5	13.5	9.9	9.5	17.9	18.2
Private household .....	.8	.8	.1	(¹)	1.6	1.7
Protective service	1.7	1.7	2.7	2.7	.5	.5
Service, except private household and protective	11.0	11.0	7.1	6.8	15.8	16.0
Precision production, craft, and repair	11.8	11.9	19.6	19.9	2.3	2.3
Operators, fabricators, and laborers	15.3	15.3	20.6	20.7	8.9	8.9
Machine operators, assemblers, and inspectors	7.1	7.1	7.6	7.8	6.5	6.4
Transportation and material moving occupations	4.1	4.1	6.8	6.8	.9	.9
Handlers, equipment cleaners, helpers, and laborers	4.1	4.1	6.3	6.2	1.5	1.6
Farming, forestry, and fishing	2.6	2.5	4.0	3.8	.8	.9
White						
Total, 16 years and over (thousands)	97,311	99,506	53,984	54,805	43,327	44,702
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	26.5	27.2	26.8	27.4	26.0	27.0
Executive, administrative, and managerial	12.8	13.3	14.2	14.8	11.0	11.5
Professional specialty	13.7	13.9	12.6	12.6	15.1	15.5
Technical, sales, and administrative support	31.7	31.2	20.4	20.2	45.9	44.6
Technicians and related support	3.1	3.1	3.0	3.0	3.2	3.2
Sales occupations	12.3	12.4	11.6	11.7	13.2	13.3
Administrative support, including clerical	16.3	15.7	5.8	5.5	29.4	28.1
Service occupations	12.3	12.3	8.9	8.6	16.6	16.9
Private household .....	.7	.7	.1	(¹)	1.4	1.4
Protective service	1.6	1.6	2.6	2.5	.4	.5
Service, except private household and protective	10.0	10.0	6.2	6.0	14.8	14.9
Precision production, craft, and repair	12.2	12.3	20.2	20.5	2.3	2.3
Operators, fabricators, and laborers	14.5	14.4	19.5	19.4	8.2	8.2
Machine operators, assemblers, and inspectors	6.7	6.7	7.2	7.4	5.9	5.8
Transportation and material moving occupations	4.0	3.9	6.4	6.4	.9	.9
Handlers, equipment cleaners, helpers, and laborers	3.9	3.8	5.9	5.6	1.4	1.6
Farming, forestry, and fishing	2.7	2.6	4.2	3.9	.9	1.0
Black						
Total, 16 years and over (thousands)	11,417	11,705	5,649	5,749	5,768	5,956
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	15.5	14.6	14.2	12.3	16.8	16.8
Executive, administrative, and managerial	6.6	6.6	7.0	6.4	6.3	6.9
Professional specialty	8.9	7.9	7.2	5.9	10.5	9.9
Technical, sales, and administrative support	28.2	28.1	16.7	17.0	39.5	38.8
Technicians and related support	2.7	3.0	1.8	2.5	3.6	3.5
Sales occupations	7.3	7.4	5.5	5.4	9.1	9.3
Administrative support, including clerical	18.2	17.7	9.4	9.1	26.9	26.1
Service occupations	22.9	23.0	18.3	17.4	27.3	28.5
Private household	1.8	1.8	.1	.1	3.5	3.5
Protective service	2.4	2.8	4.0	4.6	.9	1.0
Service, except private household and protective	18.6	18.4	14.1	12.7	23.0	23.9
Precision production, craft, and repair	8.8	8.9	15.6	15.7	2.0	2.4
Operators, fabricators, and laborers	23.2	23.8	32.7	34.6	14.0	13.3
Machine operators, assemblers, and inspectors	10.3	10.3	10.5	10.8	10.2	9.9
Transportation and material moving occupations	6.2	6.2	11.3	11.3	1.2	1.4
Handlers, equipment cleaners, helpers, and laborers	6.7	7.2	10.9	12.6	2.5	2.0
Farming, forestry, and fishing	1.4	1.6	2.5	2.9	.4	.3

¹ Less than 0.05 percent.

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

(In thousands)

Age and sex	January 1989								
	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	103,158	1,116	17,532	84,510	8,517	280	1,420	1,287	124
16 to 19 years	5,789	169	249	5,371	84	13	116	31	24
16 to 17 years	2,144	103	59	1,982	32	5	43	4	14
18 to 19 years	3,645	66	189	3,389	52	8	74	26	11
20 to 24 years	11,966	112	1,068	10,785	298	13	255	51	10
25 to 34 years	30,949	184	4,333	26,432	1,901	53	492	250	20
35 to 44 years	25,806	203	5,658	19,945	2,478	82	220	284	15
45 to 54 years	16,534	156	3,713	12,665	1,816	64	170	223	28
55 to 64 years	9,736	176	2,100	7,461	1,320	40	122	271	21
55 to 59 years	5,862	97	1,286	4,479	758	23	71	144	8
60 to 64 years	3,874	79	814	2,982	562	17	50	126	13
65 years and over	2,378	116	411	1,851	620	16	44	177	6
Men, 16 years and over	54,698	128	8,109	46,461	5,505	33	1,058	1,079	40
16 to 19 years	2,792	40	94	2,658	50	7	74	30	18
16 to 17 years	975	24	18	934	18	3	36	4	10
18 to 19 years	1,817	16	76	1,725	32	4	38	26	8
20 to 24 years	6,125	17	457	5,651	171	5	194	47	6
25 to 34 years	16,817	30	1,968	14,819	1,217	10	380	202	7
35 to 44 years	13,581	12	2,627	10,941	1,593	3	164	233	4
45 to 54 years	8,815	9	1,749	7,057	1,147	2	118	179	-
55 to 64 years	5,266	13	1,017	4,236	915	-	96	229	2
55 to 59 years	3,181	9	621	2,551	509	-	60	124	-
60 to 64 years	2,086	4	397	1,685	406	-	36	105	1
65 years and over	1,301	6	197	1,099	413	5	32	159	3
Women, 16 years and over	48,460	988	9,423	38,049	3,012	247	362	208	84
16 to 19 years	2,997	129	155	2,713	35	5	42	-	6
16 to 17 years	1,169	79	42	1,048	14	2	7	-	4
18 to 19 years	1,828	50	113	1,665	20	4	36	-	3
20 to 24 years	5,841	95	611	5,134	127	8	60	4	4
25 to 34 years	14,132	154	2,365	11,613	684	43	112	48	13
35 to 44 years	12,225	191	3,031	9,004	884	78	56	52	11
45 to 54 years	7,719	147	1,964	5,608	669	61	53	44	28
55 to 64 years	4,470	163	1,083	3,225	405	40	26	42	19
55 to 59 years	2,681	88	666	1,928	249	23	11	20	8
60 to 64 years	1,789	75	417	1,297	156	17	15	22	12
65 years and over	1,076	110	214	752	208	11	12	18	3

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-25. Employed civilians by industry and occupation

(In thousands)

Industry	January 1989												
	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	2,631	63	64	43	16	117	-	13	60	9	48	29	2,369
Mining	654	88	60	34	13	82	-	14	203	26	107	26	-
Construction	7,126	1,045	140	72	44	411	-	17	4,161	97	448	681	9
Manufacturing	21,491	2,461	1,726	698	718	2,377	-	345	4,228	6,789	809	1,239	100
Durable goods	12,751	1,480	1,144	516	312	1,285	-	185	2,922	3,787	427	602	88
Nondurable goods	8,740	980	583	182	406	1,091	-	160	1,305	3,002	382	637	12
Transportation and public utilities	8,043	909	481	267	301	2,233	-	288	1,231	129	1,675	512	17
Wholesale and retail trade	23,725	2,027	423	122	9,774	2,346	-	4,378	1,576	296	987	1,777	19
Wholesale trade	4,591	480	96	34	1,853	815	-	32	325	105	471	370	8
Retail trade	19,134	1,547	327	88	7,921	1,531	-	4,346	1,251	191	516	1,406	11
Finance, insurance, and real estate	7,770	2,065	187	146	1,854	2,992	-	297	152	17	8	21	32
Services	37,696	4,852	11,507	1,956	679	6,156	902	7,852	1,798	790	542	396	265
Private households	1,122	-	9	13	-	17	902	88	9	-	3	24	56
Other service industries	36,574	4,652	11,498	1,943	679	6,139	-	7,765	1,790	790	539	372	209
Professional services	24,458	2,558	10,231	1,580	164	4,423	-	4,439	373	201	314	125	50
Public administration	5,450	1,166	743	247	25	1,507	-	1,366	248	26	63	26	30

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					
	Jan. 1988	Jan. 1989	Total		Wage and salary workers ¹			
			Jan. 1988	Jan. 1989	Paid absences		Unpaid absences	
	Jan. 1988	Jan. 1989			Jan. 1988	Jan. 1989	Jan. 1988	Jan. 1989
Total, 16 years and over	4,503	4,598	4,316	4,365	1,527	1,610	2,096	2,087
Vacation	1,357	1,561	1,322	1,505	713	822	458	539
Illness	1,461	1,439	1,428	1,400	543	531	744	712
Bad weather	573	317	529	261	(²)	(²)	(²)	(²)
Industrial dispute	12	14	12	14	(²)	(²)	(²)	(²)
All other reasons	1,100	1,267	1,027	1,185	270	257	894	836
Men, 16 years and over	2,523	2,561	2,373	2,365	818	916	1,083	1,020
Vacation	820	881	787	832	445	514	239	253
Illness	757	759	732	726	285	275	366	347
All other reasons ³	945	921	653	807	68	127	476	420
Women, 16 years and over	1,961	2,037	1,943	2,000	709	693	1,014	1,067
Vacation	536	680	535	673	268	308	219	286
Illness	705	679	695	675	259	255	377	365
All other reasons ³	739	677	713	652	182	130	417	416

¹ Excludes private household workers.

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

³ Includes bad weather and industrial dispute, not shown separately.
NOTE: Estimates for "all other reasons" by pay status may be biased because of high response variance; data should be used with caution.

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

Hours of work	January 1989					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	110,187	2,598	107,590	100.0	100.0	100.0
1 to 34 hours	25,993	832	25,161	23.6	32.0	23.4
1 to 4 hours	832	43	789	.8	1.7	.7
5 to 14 hours	4,712	171	4,541	4.3	6.6	4.2
15 to 29 hours	13,309	426	12,883	12.1	16.4	12.0
30 to 34 hours	7,140	192	6,948	6.5	7.4	6.5
35 hours and over	84,196	1,764	82,429	76.4	68.0	76.6
35 to 39 hours	7,464	179	7,284	6.8	6.9	6.8
40 hours	44,555	594	43,961	40.4	22.9	40.9
41 hours and over	32,177	991	31,184	29.2	38.2	29.0
41 to 48 hours	11,862	199	11,663	10.8	7.7	10.8
49 to 59 hours	12,342	291	12,050	11.2	11.2	11.2
60 hours and over	7,973	501	7,471	7.2	19.3	6.9
Average hours, total at work	39.1	41.2	39.0	-	-	-
Average hours, workers on full-time schedules	43.5	47.8	43.4	-	-	-

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	January 1989					
	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	25,993	7,106	18,886	25,161	6,766	18,394
Economic reasons	5,138	2,006	3,132	4,914	1,894	3,020
Slack work	2,634	1,653	981	2,455	1,548	907
Material shortages or repairs to plant and equipment	71	71	-	69	69	-
New job started during week	204	204	-	198	198	-
Job terminated during week	78	78	-	78	78	-
Could find only part-time work	2,150	-	2,150	2,112	-	2,112
Other reasons	20,854	5,099	15,755	20,245	4,871	15,374
Does not want, or unavailable for, full-time work	13,046	-	13,046	12,763	-	12,763
Vacation	869	869	-	856	856	-
Illness	1,974	1,823	151	1,931	1,783	148
Bad weather	612	612	-	532	532	-
Industrial dispute	3	3	-	3	3	-
Legal or religious holiday	204	204	-	204	204	-
Full time for this job	1,860	-	1,860	1,834	-	1,834
All other reasons	2,288	1,590	698	2,125	1,496	629
Average hours:						
Economic reasons	22.2	23.8	21.1	22.2	23.9	21.1
Other reasons	20.9	26.0	19.2	20.9	26.2	19.2
Worked 30 to 34 hours:						
Economic reasons	1,632	878	754	1,559	834	725
Other reasons	5,508	2,660	2,848	5,389	2,582	2,807

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Industry	January 1989								
	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	107,590	4,914	15,374	87,302	56,118	11,663	19,521	39.0	43.4
Wage and salary workers	99,397	4,228	13,907	81,262	53,291	11,067	16,904	38.9	43.1
Mining	616	11	8	597	334	102	161	44.4	45.1
Construction	5,355	323	275	4,757	3,336	554	867	39.4	41.8
Manufacturing	20,516	490	701	19,325	12,184	3,276	3,865	42.0	43.3
Durable goods	12,182	211	336	11,635	7,239	1,980	2,416	42.5	43.4
Nondurable goods	8,334	279	365	7,690	4,944	1,297	1,449	41.4	43.1
Transportation and public utilities	7,402	250	473	6,679	4,177	957	1,545	42.0	44.2
Wholesale and retail trade	21,061	1,407	5,115	14,539	8,752	2,241	3,546	36.6	43.9
Finance, insurance, and real estate	6,932	138	594	6,200	4,201	781	1,218	40.4	42.7
Service industries	32,274	1,584	6,492	24,198	16,603	2,662	4,933	37.0	42.9
Private households	1,065	207	479	379	230	59	90	26.3	46.2
All other industries	31,209	1,377	6,013	23,819	16,373	2,603	4,843	37.4	42.8
Public administration	5,242	26	249	4,967	3,704	493	770	40.9	42.1
Self-employed workers	7,912	665	1,350	5,897	2,743	585	2,569	40.1	47.6
Unpaid family workers	280	21	117	142	84	11	47	33.1	44.6

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	January 1989							Average hours, total at work	Average hours, workers on full-time schedules
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules					
				Total	40 hours or less	41 hours or more			
TOTAL									
Total, 16 years and over	107,590	4,914	15,374	87,302	56,118	31,184	39.0	43.4	
16 to 19 years	5,664	383	3,546	1,735	1,408	327	24.2	40.2	
16 to 17 years	2,113	59	1,929	125	105	20	16.6	37.0	
18 to 19 years	3,550	324	1,618	1,608	1,302	306	28.7	40.4	
20 years and over	101,926	4,531	11,828	85,567	54,710	30,857	39.8	43.5	
20 to 24 years	11,857	842	2,005	9,010	6,484	2,526	36.8	41.9	
25 years and over	90,069	3,689	9,823	76,557	48,227	28,330	40.3	43.7	
25 to 44 years	59,133	2,535	5,362	51,236	31,887	19,349	40.7	43.7	
45 to 64 years	28,153	1,041	3,093	24,019	15,409	8,610	40.2	43.6	
65 years and over	2,784	113	1,368	1,303	932	371	28.9	42.5	
Men, 16 years and over	57,871	2,102	4,472	51,297	29,385	21,912	41.9	44.8	
16 to 19 years	2,734	162	1,602	970	767	203	25.7	40.8	
16 to 17 years	966	25	871	70	55	15	17.6	39.4	
18 to 19 years	1,769	137	731	901	712	189	30.1	40.9	
20 years and over	55,137	1,940	2,870	50,327	28,619	21,708	42.7	44.9	
20 to 24 years	6,090	419	812	4,859	3,264	1,595	38.4	42.8	
25 years and over	49,048	1,521	2,058	45,469	25,355	20,114	43.3	45.1	
25 to 44 years	32,111	1,091	772	30,248	16,487	13,761	43.9	45.3	
45 to 64 years	15,349	387	591	14,371	8,277	6,094	43.3	44.9	
65 years and over	1,588	44	694	850	591	259	30.4	42.2	
Women, 16 years and over	49,718	2,811	10,902	36,005	26,732	9,273	35.6	41.5	
16 to 19 years	2,929	220	1,945	764	641	123	22.7	39.4	
16 to 17 years	1,148	34	1,058	56	50	6	15.6	(¹)	
18 to 19 years	1,782	186	887	709	590	119	27.3	39.8	
20 years and over	46,789	2,591	8,957	35,241	26,092	9,149	36.4	41.6	
20 to 24 years	5,767	424	1,193	4,150	3,216	934	35.2	40.9	
25 years and over	41,023	2,168	7,764	31,091	22,877	8,214	36.6	41.7	
25 to 44 years	27,021	1,444	4,589	20,988	15,400	5,588	37.0	41.6	
45 to 64 years	12,804	655	2,501	9,648	7,131	2,517	36.6	41.7	
65 years and over	1,197	70	674	453	342	111	26.9	43.1	
RACE									
White, 16 years and over	93,210	4,096	13,826	75,288	46,910	28,378	39.1	43.7	
Men	50,788	1,810	3,948	45,030	24,882	20,148	42.2	45.1	
Women	42,422	2,287	9,878	30,257	22,028	8,229	35.4	41.6	
Black, 16 years and over	10,992	709	1,100	9,183	7,145	2,038	38.2	41.5	
Men	5,329	245	357	4,727	3,457	1,270	40.0	42.4	
Women	5,663	463	743	4,457	3,689	768	36.5	40.6	
MARITAL STATUS									
Men, 16 years and over:									
Married, spouse present	37,570	917	1,387	35,266	19,150	16,116	43.8	45.3	
Widowed, divorced, or separated	5,669	304	270	5,095	2,994	2,101	42.2	44.7	
Single (never married)	14,633	881	2,815	10,937	7,243	3,694	37.2	43.3	
Women, 16 years and over:									
Married, spouse present	27,670	1,385	6,419	19,866	15,060	4,806	35.3	41.2	
Widowed, divorced, or separated	9,846	668	1,275	7,903	5,581	2,322	38.0	42.2	
Single (never married)	12,202	759	3,208	8,235	6,091	2,144	34.2	41.7	

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

**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	January 1989								
	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	107,600	4,919	15,416	87,265	56,064	11,658	19,542	39.0	43.4
Managerial and professional specialty	28,749	520	2,707	25,521	13,971	3,330	8,221	42.2	45.1
Executive, administrative, and managerial	14,043	184	747	13,112	6,579	1,799	4,733	44.4	46.1
Professional specialty	14,706	336	1,961	12,409	7,392	1,530	3,487	40.2	44.1
Technical, sales, and administrative support	34,280	1,297	6,393	26,589	18,225	3,422	4,941	37.5	42.6
Technicians and related support	3,488	46	399	3,043	2,168	374	501	39.8	42.5
Sales occupations	13,162	696	2,794	9,672	5,073	1,427	3,172	38.6	45.4
Administrative support, including clerical	17,629	555	3,200	13,874	10,984	1,622	1,269	36.3	40.7
Service occupations	14,802	1,427	4,261	9,114	6,723	900	1,491	33.6	42.4
Private household	861	156	406	299	184	49	67	25.8	45.4
Protective service	1,878	24	178	1,676	1,009	242	425	42.4	45.3
Service, except private household and protective	12,063	1,247	3,677	7,139	5,530	610	999	32.8	41.6
Precision production, craft, and repair	13,024	644	433	11,947	7,720	1,862	2,365	41.2	43.0
Operators, fabricators, and laborers	16,745	1,030	1,622	14,093	9,425	2,144	2,524	39.5	43.0
Machine operators, assemblers, and inspectors	7,892	375	393	7,123	4,942	1,175	1,006	40.4	42.3
Transportation and material moving occupations	4,397	229	387	3,782	2,047	549	1,186	42.5	46.0
Handlers, equipment cleaners, helpers, and laborers	4,455	426	841	3,188	2,436	420	333	34.9	41.0
Men, 16 years and over ¹	57,721	2,102	4,449	51,170	29,262	7,360	14,548	42.0	44.8
Managerial and professional specialty	15,714	250	730	14,734	6,876	1,893	5,965	45.1	46.9
Executive, administrative, and managerial	8,463	124	295	8,043	3,452	1,069	3,523	46.2	47.5
Professional specialty	7,252	126	435	6,691	3,424	824	2,443	43.9	46.1
Technical, sales, and administrative support	12,150	247	1,205	10,699	5,767	1,601	3,330	42.3	45.4
Technicians and related support	1,835	21	117	1,697	1,107	216	374	42.0	43.8
Sales occupations	6,756	132	670	5,955	2,535	921	2,498	44.1	47.4
Administrative support, including clerical	3,559	93	418	3,047	2,125	464	458	39.0	42.3
Service occupations	5,690	330	1,144	4,217	2,940	444	833	37.1	43.4
Private household	28	3	8	16	14	-	3	(²)	(²)
Protective service	1,609	17	102	1,489	893	215	381	43.5	45.4
Service, except private household and protective	4,053	310	1,033	2,711	2,033	229	449	34.6	42.4
Precision production, craft, and repair	11,877	592	316	10,968	6,978	1,753	2,237	41.4	43.1
Operators, fabricators, and laborers	12,290	684	1,054	10,552	6,701	1,669	2,183	40.4	43.6
Machine operators, assemblers, and inspectors	4,695	152	144	4,399	2,849	791	759	41.8	43.1
Transportation and material moving occupations	3,960	190	219	3,552	1,879	518	1,155	43.6	46.2
Handlers, equipment cleaners, helpers, and laborers	3,635	342	692	2,602	1,973	360	269	35.0	41.0
Women, 16 years and over ¹	49,878	2,816	10,967	36,095	26,802	4,298	4,995	35.6	41.5
Managerial and professional specialty	13,035	270	1,977	10,787	7,095	1,437	2,256	38.8	42.8
Executive, administrative, and managerial	5,580	60	452	5,068	3,128	730	1,211	41.7	43.8
Professional specialty	7,455	211	1,525	5,719	3,967	706	1,045	36.6	41.8
Technical, sales, and administrative support	22,130	1,051	5,188	15,890	12,458	1,821	1,611	34.9	40.7
Technicians and related support	1,653	25	281	1,346	1,061	158	127	37.4	40.9
Sales occupations	6,407	565	2,125	3,717	2,538	506	674	32.9	42.2
Administrative support, including clerical	14,071	461	2,782	10,827	8,859	1,158	810	35.6	40.2
Service occupations	9,112	1,097	3,118	4,897	3,783	456	658	31.4	41.6
Private household	834	153	398	283	170	49	64	25.7	45.8
Protective service	269	7	76	186	115	27	44	35.8	44.3
Service, except private household and protective	8,010	937	2,644	4,428	3,498	381	550	31.9	41.2
Precision production, craft, and repair	1,147	52	116	979	742	109	128	38.6	41.6
Operators, fabricators, and laborers	4,454	346	567	3,541	2,725	475	342	37.1	41.0
Machine operators, assemblers, and inspectors	3,197	223	249	2,724	2,093	384	247	38.3	41.0
Transportation and material moving occupations	438	39	168	230	168	31	31	32.5	42.4
Handlers, equipment cleaners, helpers, and laborers	820	83	150	587	464	60	63	34.7	40.8

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	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
TOTAL													
Noninstitutional population ¹	185,571	185,705	185,847	185,964	186,086	186,247	186,402	186,522	186,666	186,801	186,949	167,098	187,340
Labor force ¹	122,784	122,901	122,672	123,060	122,917	123,209	123,331	123,692	123,688	123,778	124,215	124,259	125,124
Percent of population ²	66.2	66.2	66.0	66.2	66.1	66.2	66.2	66.3	66.3	66.3	66.4	66.4	66.8
Total employed ¹	115,804	116,009	115,665	116,392	116,117	116,686	116,707	116,895	117,074	117,260	117,652	117,705	118,407
Employment-population ratio ³	62.4	62.5	62.3	62.6	62.4	62.7	62.8	62.7	62.8	62.9	62.9	62.9	63.2
Resident Armed Forces	1,749	1,736	1,736	1,732	1,714	1,685	1,673	1,692	1,704	1,687	1,705	1,696	1,696
Civilian employed	114,055	114,273	114,129	114,660	114,403	115,001	115,034	115,203	115,370	115,573	115,947	116,009	116,711
Agriculture	3,256	3,200	3,161	3,187	3,110	3,121	3,060	3,142	3,176	3,238	3,236	3,193	3,300
Nonagricultural industries	110,799	111,073	110,948	111,473	111,293	111,880	111,974	112,061	112,194	112,335	112,709	112,816	113,411
Unemployed	6,960	6,692	6,807	6,668	6,800	6,523	6,624	6,797	6,614	6,518	6,563	6,554	6,716
Unemployment rate ⁴	5.7	5.6	5.5	5.4	5.5	5.3	5.4	5.5	5.3	5.3	5.3	5.3	5.4
Not in labor force	62,787	62,804	63,175	62,904	63,171	63,038	63,071	62,830	62,978	63,023	62,734	62,839	62,216
Men													
Noninstitutional population ¹	89,033	89,099	89,168	89,225	89,287	89,367	89,445	89,504	89,577	89,637	89,716	89,792	89,914
Labor force ¹	68,219	68,289	68,194	68,462	68,409	68,436	68,461	68,665	68,604	68,569	68,686	68,638	69,032
Percent of population ²	76.6	76.6	76.5	76.7	76.6	76.6	76.5	76.7	76.6	76.5	76.6	76.4	76.8
Total employed ¹	64,420	64,587	64,417	64,866	64,672	64,894	64,941	64,931	65,015	64,976	65,074	65,055	65,322
Employment-population ratio ³	72.4	72.5	72.2	72.7	72.4	72.6	72.6	72.5	72.6	72.5	72.5	72.5	72.6
Resident Armed Forces	1,588	1,577	1,573	1,569	1,553	1,523	1,512	1,529	1,540	1,526	1,542	1,534	1,532
Civilian employed	62,832	63,010	62,844	63,297	63,119	63,371	63,429	63,402	63,475	63,450	63,532	63,521	63,790
Unemployed	3,799	3,702	3,777	3,596	3,737	3,542	3,520	3,754	3,589	3,593	3,612	3,583	3,710
Unemployment rate ⁴	5.6	5.4	5.5	5.3	5.5	5.2	5.1	5.5	5.2	5.2	5.3	5.2	5.4
Not in labor force	20,814	20,810	20,974	20,763	20,878	20,931	20,964	20,819	20,973	21,066	21,030	21,154	20,882
Women													
Noninstitutional population ¹	96,538	96,606	96,879	96,739	96,801	96,880	96,957	97,018	97,089	97,164	97,234	97,308	97,427
Labor force ¹	54,565	54,812	54,478	54,598	54,508	54,773	54,870	55,007	55,084	55,209	55,529	55,621	56,091
Percent of population ²	56.5	56.5	56.3	56.4	56.3	56.5	56.6	56.7	56.7	56.8	57.1	57.2	57.6
Total employed ¹	51,384	51,422	51,448	51,526	51,445	51,792	51,766	51,964	52,059	52,284	52,578	52,850	53,085
Employment-population ratio ³	53.2	53.2	53.2	53.3	53.1	53.5	53.4	53.6	53.8	53.8	54.1	54.1	54.5
Resident Armed Forces	161	159	163	163	161	162	161	183	184	161	163	162	164
Civilian employed	51,223	51,263	51,285	51,363	51,284	51,830	51,605	51,801	51,895	52,123	52,415	52,488	52,921
Unemployed	3,181	3,190	3,030	3,072	3,063	2,981	3,104	3,043	3,025	2,925	2,951	2,971	3,006
Unemployment rate ⁴	5.8	5.8	5.6	5.6	5.6	5.4	5.7	5.5	5.5	5.3	5.3	5.3	5.4
Not in labor force	41,973	41,994	42,201	42,141	42,293	42,107	42,087	42,011	42,005	41,955	41,705	41,665	41,336

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	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
TOTAL													
Civilian noninstitutional population ¹	183,822	183,969	184,111	184,232	184,374	184,562	184,729	184,830	184,962	185,114	185,244	185,402	185,644
Civilian labor force	121,035	121,165	120,936	121,328	121,203	121,524	121,658	122,000	121,984	122,091	122,510	122,563	123,428
Percent of population	65.8	65.9	65.7	65.9	65.7	65.8	65.9	66.0	66.0	66.0	66.1	66.1	66.5
Employed	114,055	114,273	114,129	114,660	114,403	115,001	115,034	115,203	115,370	115,573	115,947	116,009	116,711
Employment-population ratio ²	62.0	62.1	62.0	62.2	62.0	62.3	62.3	62.3	62.4	62.4	62.6	62.6	62.9
Unemployed	6,980	6,892	6,807	6,668	6,800	6,523	6,624	6,797	6,614	6,518	6,563	6,554	6,716
Unemployment rate	5.8	5.7	5.6	5.5	5.6	5.4	5.4	5.6	5.4	5.3	5.4	5.3	5.4
Men, 20 years and over													
Civilian noninstitutional population ¹	80,120	80,203	80,260	80,326	80,402	80,526	80,608	80,669	80,751	80,851	80,924	81,001	81,162
Civilian labor force	62,421	62,614	62,532	62,774	62,721	62,669	62,729	62,916	62,884	62,915	62,995	63,002	63,358
Percent of population	77.9	78.1	77.9	78.1	78.0	77.8	77.8	78.0	77.9	77.8	77.8	77.8	78.1
Employed	59,315	59,561	59,468	59,833	59,656	59,780	59,897	59,839	59,979	60,004	59,999	60,049	60,420
Employment-population ratio ²	74.0	74.3	74.1	74.5	74.2	74.2	74.3	74.2	74.3	74.2	74.1	74.1	74.4
Agriculture	2,302	2,279	2,258	2,259	2,238	2,231	2,252	2,273	2,249	2,315	2,313	2,292	2,277
Nonagricultural industries	57,013	57,282	57,210	57,574	57,418	57,549	57,645	57,566	57,730	57,689	57,686	57,757	58,143
Unemployed	3,106	3,053	3,064	2,941	3,065	2,889	2,832	3,077	2,905	2,911	2,996	2,953	2,938
Unemployment rate	5.0	4.9	4.9	4.7	4.9	4.6	4.5	4.9	4.6	4.6	4.8	4.7	4.6
Not in labor force	17,699	17,589	17,728	17,552	17,681	17,857	17,879	17,753	17,867	17,936	17,929	17,999	17,804
Women, 20 years and over													
Civilian noninstitutional population ¹	89,110	89,178	89,261	89,307	89,382	89,502	89,588	89,670	89,735	89,807	89,887	89,954	90,072
Civilian labor force	50,462	50,530	50,510	50,591	50,532	50,690	50,807	50,959	50,991	51,201	51,558	51,587	51,998
Percent of population	56.6	56.7	56.6	56.6	56.5	56.6	56.7	56.8	56.8	57.0	57.4	57.3	57.7
Employed	47,894	47,934	48,060	48,120	48,040	48,205	48,242	48,492	48,535	48,788	49,113	49,165	49,543
Employment-population ratio ²	53.7	53.8	53.8	53.9	53.7	53.9	53.8	54.1	54.1	54.3	54.6	54.7	55.0
Agriculture	639	638	641	653	604	626	549	609	638	640	640	646	715
Nonagricultural industries	47,255	47,296	47,419	47,467	47,436	47,579	47,693	47,883	47,897	48,148	48,473	48,519	48,827
Unemployed	2,568	2,596	2,450	2,471	2,492	2,485	2,565	2,467	2,456	2,413	2,445	2,422	2,455
Unemployment rate	5.1	5.1	4.9	4.9	4.9	4.9	5.0	4.8	4.8	4.7	4.7	4.7	4.7
Not in labor force	38,648	38,648	38,751	38,716	38,850	38,812	38,781	38,711	38,744	38,606	38,329	38,367	38,074
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,592	14,588	14,591	14,598	14,590	14,534	14,533	14,491	14,477	14,456	14,433	14,447	14,410
Civilian labor force	8,152	8,021	7,894	7,963	7,950	8,165	8,122	8,125	8,109	7,975	7,957	7,974	8,071
Percent of population	55.9	55.0	54.1	54.5	54.5	56.2	55.9	56.1	56.0	55.2	55.1	55.2	56.0
Employed	6,846	6,778	6,601	6,707	6,707	7,016	6,895	6,872	6,856	6,781	6,835	6,795	6,748
Employment-population ratio ²	46.9	46.5	45.2	45.9	46.0	48.3	47.4	47.4	47.4	46.9	47.4	47.0	46.8
Agriculture	315	283	282	275	268	264	259	260	289	283	285	255	307
Nonagricultural industries	6,531	6,495	6,319	6,432	6,439	6,752	6,636	6,612	6,567	6,498	6,550	6,540	6,441
Unemployed	1,306	1,243	1,293	1,256	1,243	1,149	1,227	1,253	1,253	1,194	1,122	1,179	1,323
Unemployment rate	16.0	15.5	16.4	15.8	15.6	14.1	15.1	15.4	15.5	15.0	14.1	14.8	16.4
Not in labor force	6,440	6,567	6,697	6,635	6,640	6,369	6,411	6,366	6,368	6,481	6,476	6,473	6,339

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	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
WHITE													
Civilian noninstitutional population ¹	157,676	157,773	157,868	157,943	158,034	158,166	158,279	158,340	158,422	158,524	158,603	158,705	158,865
Civilian labor force	104,188	104,404	104,172	104,517	104,433	104,716	104,651	105,013	105,036	105,051	105,395	105,411	106,106
Percent of population	66.1	66.2	66.0	66.2	66.1	66.2	66.1	66.3	66.3	66.3	66.5	66.4	66.8
Employed	99,011	99,350	99,252	99,663	99,508	99,902	99,761	99,907	100,058	100,199	100,543	100,567	101,183
Employment-population ratio ²	62.8	63.0	62.9	63.1	63.0	63.2	63.0	63.1	63.2	63.2	63.4	63.4	63.7
Unemployed	5,177	5,054	4,920	4,854	4,925	4,814	4,890	5,106	4,978	4,852	4,852	4,844	4,923
Unemployment rate	5.0	4.8	4.7	4.6	4.7	4.6	4.7	4.9	4.7	4.6	4.6	4.6	4.8
Men, 20 years and over													
Civilian labor force	54,470	54,627	54,541	54,653	54,722	54,658	54,712	54,864	54,839	54,861	54,922	54,898	55,213
Percent of population	78.3	78.4	78.3	78.4	78.4	78.2	78.2	78.4	78.3	78.3	78.3	78.2	78.5
Employed	52,080	52,348	52,266	52,478	52,443	52,475	52,557	52,487	52,579	52,612	52,624	52,636	53,007
Employment-population ratio ²	74.8	75.2	75.0	75.3	75.2	75.1	75.2	75.0	75.1	75.1	75.0	75.0	75.4
Unemployed	2,390	2,279	2,275	2,175	2,279	2,183	2,155	2,377	2,260	2,249	2,298	2,262	2,205
Unemployment rate	4.4	4.2	4.2	4.0	4.2	4.0	3.9	4.3	4.1	4.1	4.2	4.1	4.0
Women, 20 years and over													
Civilian labor force	42,677	42,848	42,767	42,955	42,868	42,955	42,958	43,149	43,191	43,298	43,625	43,644	43,936
Percent of population	56.0	56.2	56.1	56.3	56.1	56.2	56.2	56.4	56.4	56.5	56.9	56.9	57.2
Employed	40,869	40,942	41,089	41,233	41,124	41,201	41,124	41,378	41,413	41,583	41,889	41,930	42,201
Employment-population ratio ²	53.6	53.7	53.9	54.0	53.8	53.9	53.8	54.1	54.1	54.2	54.6	54.6	54.9
Unemployed	1,808	1,906	1,678	1,722	1,744	1,754	1,834	1,771	1,778	1,715	1,736	1,714	1,734
Unemployment rate	4.2	4.4	3.9	4.0	4.1	4.1	4.3	4.1	4.1	4.0	4.0	3.9	3.9
Both sexes, 16 to 19 years													
Civilian labor force	7,041	6,929	6,864	6,909	6,843	7,103	6,981	7,000	7,006	6,892	6,848	6,869	6,958
Percent of population	59.2	58.3	57.7	58.1	57.6	59.8	58.9	59.2	59.4	58.5	58.3	58.6	59.6
Employed	6,062	6,060	5,897	5,952	5,941	6,226	6,080	6,042	6,066	6,004	6,030	6,001	5,975
Employment-population ratio ²	51.0	51.0	49.6	50.1	50.0	52.5	51.3	51.1	51.4	51.0	51.3	51.2	51.1
Unemployed	979	869	967	957	902	877	901	958	940	888	818	868	983
Unemployment rate	13.9	12.5	14.1	13.9	13.2	12.3	12.9	13.7	13.4	12.9	11.9	12.6	14.1
Men	14.5	12.5	15.5	14.4	14.0	13.2	14.3	13.9	14.5	14.4	12.6	13.4	16.4
Women	13.3	12.6	12.6	13.3	12.3	11.4	11.4	13.5	12.3	11.3	11.3	11.8	11.7
BLACK													
Civilian noninstitutional population ¹	20,539	20,569	20,596	20,622	20,650	20,683	20,715	20,736	20,762	20,786	20,811	20,842	20,877
Civilian labor force	13,174	13,138	13,100	13,101	13,102	13,066	13,283	13,236	13,201	13,290	13,330	13,405	13,477
Percent of population	64.1	63.9	63.6	63.5	63.4	63.2	64.1	63.8	63.6	63.9	64.1	64.3	64.6
Employed	11,570	11,504	11,461	11,534	11,514	11,543	11,761	11,733	11,758	11,807	11,831	11,856	11,860
Employment-population ratio ²	56.3	55.9	55.6	55.9	55.8	55.8	56.8	56.6	56.6	56.8	56.8	56.9	56.8
Unemployed	1,604	1,634	1,639	1,567	1,588	1,523	1,522	1,503	1,443	1,483	1,499	1,549	1,617
Unemployment rate	12.2	12.4	12.5	12.0	12.1	11.7	11.5	11.4	10.9	11.2	11.2	11.6	12.0
Men, 20 years and over													
Civilian labor force	6,093	6,140	6,119	6,151	6,107	6,084	6,080	6,131	6,117	6,157	6,146	6,179	6,226
Percent of population	74.8	75.2	74.9	75.2	74.5	74.1	73.9	74.5	74.2	74.6	74.3	74.6	75.0
Employed	5,470	5,469	5,444	5,510	5,469	5,480	5,495	5,539	5,563	5,566	5,545	5,561	5,576
Employment-population ratio ²	67.1	67.0	66.6	67.3	66.7	66.7	66.8	67.3	67.5	67.4	67.1	67.1	67.2
Unemployed	623	671	675	641	638	604	585	592	554	591	601	618	650
Unemployment rate	10.2	10.9	11.0	10.4	10.4	9.9	9.6	9.7	9.1	9.6	9.8	10.0	10.4
Women, 20 years and over													
Civilian labor force	6,206	6,135	6,141	6,112	6,099	6,097	6,286	6,188	6,174	6,234	6,280	6,316	6,369
Percent of population	60.7	59.9	59.9	59.6	59.4	59.3	61.0	60.0	59.8	60.2	60.6	60.9	61.2
Employed	5,524	5,490	5,478	5,444	5,453	5,449	5,640	5,571	5,575	5,620	5,663	5,654	5,706
Employment-population ratio ²	54.1	53.6	53.5	53.1	53.1	53.0	54.7	54.0	54.0	54.3	54.6	54.5	54.9
Unemployed	682	645	663	668	646	648	646	617	599	614	617	662	663
Unemployment rate	11.0	10.5	10.8	10.9	10.6	10.6	10.3	10.0	9.7	9.8	9.8	10.5	10.4

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	875	883	840	838	896	885	917	917	910	899	904	910	861
Percent of population	40.3	39.7	38.6	38.5	41.1	40.6	42.0	42.0	41.7	41.2	41.5	41.7	40.5
Employed	576	545	539	580	592	614	626	623	620	621	623	641	577
Employment-population ratio ²	26.5	25.1	24.7	26.6	27.2	28.1	28.7	28.5	28.4	28.5	28.6	29.4	28.5
Unemployed	299	318	301	258	304	271	291	294	290	278	281	269	304
Unemployment rate	34.2	36.8	35.8	30.8	33.9	30.6	31.7	32.1	31.9	30.9	31.1	29.6	34.5
Men	34.6	39.9	37.8	27.9	33.2	31.5	31.2	32.1	31.9	32.8	32.1	29.6	36.7
Women	33.7	33.8	33.9	33.9	34.8	29.6	32.4	32.0	31.9	28.6	29.9	29.3	32.0
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	13,115	13,153	13,192	13,230	13,266	13,306	13,344	13,381	13,419	13,458	13,495	13,533	13,584
Civilian labor force	8,662	8,987	8,818	8,823	8,910	9,009	8,997	8,963	9,061	9,075	9,148	9,133	9,205
Percent of population	67.6	68.3	66.8	66.7	67.2	67.7	67.4	67.0	67.5	67.4	67.8	67.5	67.9
Employed	8,199	8,241	8,088	8,030	8,128	8,222	8,265	8,214	8,378	8,368	8,419	8,441	8,434
Employment-population ratio ²	62.5	62.7	61.3	60.7	61.3	61.8	61.9	61.4	62.4	62.2	62.4	62.4	62.2
Unemployed	663	746	730	793	782	787	732	749	683	707	729	692	771
Unemployment rate	7.5	8.3	8.3	9.0	8.8	8.7	6.1	8.4	7.5	7.8	8.0	7.8	8.4

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	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
CHARACTERISTIC													
Total	114,055	114,273	114,129	114,680	114,403	115,001	115,034	115,203	115,370	115,573	115,947	116,009	116,711
Married men, spouse present	40,438	40,488	40,488	40,494	40,317	40,493	40,518	40,511	40,513	40,504	40,407	40,483	40,925
Married women, spouse present	28,435	28,620	28,713	28,772	28,632	28,678	28,669	28,809	28,836	28,890	28,995	29,053	29,589
Women who maintain families	6,153	6,151	6,158	6,091	6,000	6,130	6,170	6,280	6,253	6,344	6,375	6,399	6,416
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,629	1,640	1,610	1,632	1,574	1,583	1,572	1,607	1,612	1,661	1,672	1,698	1,684
Self-employed workers	1,427	1,410	1,418	1,390	1,365	1,375	1,362	1,411	1,421	1,405	1,450	1,349	1,387
Unpaid family workers	143	123	146	152	155	161	149	158	137	177	125	149	189
Nonagricultural industries:													
Wage and salary workers	102,413	102,498	102,339	102,562	102,145	102,953	103,189	103,207	103,501	103,733	103,770	103,904	104,510
Government	17,080	16,961	16,952	17,012	16,946	17,049	17,031	17,111	17,145	17,240	17,387	17,423	17,393
Private industries	85,333	85,537	85,387	85,550	85,199	85,904	86,158	86,096	86,356	86,493	86,383	86,481	87,117
Private households	1,146	1,167	1,167	1,114	1,152	1,146	1,132	1,128	1,119	1,152	1,209	1,210	1,196
Other industries	84,187	84,370	84,220	84,436	84,047	84,758	85,026	84,968	85,237	85,341	85,174	85,271	85,921
Self-employed workers	8,246	8,338	8,395	8,567	8,816	8,536	8,531	8,508	8,570	8,479	8,619	8,602	8,718
Unpaid family workers	241	232	250	272	301	297	251	241	230	232	300	266	298
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,355	5,369	5,331	5,212	4,878	5,302	5,341	5,192	5,097	4,963	5,061	5,321	5,097
Slack work	2,351	2,408	2,448	2,264	2,267	2,346	2,471	2,315	2,286	2,220	2,279	2,549	2,302
Could only find part-time work	2,630	2,591	2,548	2,519	2,353	2,586	2,538	2,473	2,389	2,399	2,375	2,410	2,352
Voluntary part time	14,580	14,619	14,654	14,949	14,813	14,612	15,026	14,999	15,270	15,161	15,446	15,363	15,401
Nonagricultural industries:													
Part time for economic reasons	5,113	5,101	5,087	4,953	4,676	5,073	5,102	4,972	4,862	4,727	4,819	5,033	4,837
Slack work	2,212	2,258	2,265	2,131	2,136	2,183	2,334	2,171	2,102	2,095	2,116	2,377	2,144
Could only find part-time work	2,554	2,477	2,482	2,426	2,276	2,504	2,493	2,408	2,317	2,319	2,288	2,307	2,283
Voluntary part time	14,115	14,172	14,203	14,441	14,376	14,180	14,606	14,564	14,819	14,679	14,986	14,928	14,970

¹ Excludes persons "with a job but not at work" during the survey

period for such reasons as vacation, illness, or industrial dispute.

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

(In thousands)

Sex and age	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Total, 16 years and over	114,055	114,273	114,129	114,660	114,403	115,001	115,034	115,203	115,370	115,573	115,947	116,009	116,711
16 to 24 years	20,287	20,216	19,948	20,029	19,864	20,338	20,137	20,123	20,050	19,930	19,877	19,852	19,741
16 to 19 years	6,846	6,778	6,601	6,707	6,707	7,016	6,895	6,872	6,856	6,781	6,835	6,795	6,748
16 to 17 years	2,766	2,739	2,685	2,703	2,874	2,797	2,700	2,671	2,669	2,689	2,770	2,686	2,602
18 to 19 years	4,054	4,047	3,944	4,004	4,034	4,203	4,182	4,148	4,195	4,090	4,045	4,150	4,125
20 to 24 years	13,441	13,438	13,347	13,322	13,157	13,322	13,242	13,251	13,194	13,149	13,042	13,057	12,993
25 years and over	93,759	94,055	94,198	94,591	94,450	94,683	94,979	95,145	95,332	95,619	96,062	96,151	96,988
25 to 54 years	79,188	79,366	79,583	79,898	79,953	80,111	80,456	80,608	80,697	80,950	81,242	81,399	82,036
55 years and over	14,579	14,643	14,580	14,673	14,499	14,556	14,514	14,583	14,664	14,690	14,790	14,771	14,924
Men, 16 years and over	62,832	63,010	62,844	63,297	63,119	63,371	63,429	63,402	63,475	63,450	63,532	63,521	63,790
16 to 24 years	10,466	10,442	10,364	10,438	10,385	10,550	10,441	10,475	10,401	10,303	10,379	10,288	10,198
16 to 19 years	3,517	3,449	3,376	3,464	3,463	3,591	3,532	3,563	3,496	3,446	3,533	3,472	3,370
16 to 17 years	1,435	1,400	1,391	1,403	1,383	1,415	1,392	1,395	1,397	1,404	1,433	1,385	1,270
18 to 19 years	2,054	2,052	2,001	2,059	2,080	2,171	2,133	2,126	2,106	2,040	2,105	2,135	2,088
20 to 24 years	6,949	6,993	6,988	6,974	6,922	6,959	6,909	6,912	6,905	6,857	6,846	6,816	6,828
25 years and over	52,346	52,569	52,504	52,831	52,709	52,818	53,016	52,983	53,072	53,136	53,152	53,227	53,573
25 to 54 years	43,851	43,983	43,999	44,278	44,202	44,287	44,509	44,471	44,577	44,669	44,712	44,779	45,001
55 years and over	8,495	8,563	8,492	8,532	8,490	8,529	8,524	8,514	8,502	8,482	8,436	8,470	8,563
Women, 16 years and over	51,223	51,263	51,285	51,363	51,284	51,630	51,605	51,801	51,895	52,123	52,415	52,488	52,921
16 to 24 years	9,821	9,774	9,584	9,591	9,479	9,788	9,696	9,648	9,649	9,627	9,498	9,564	9,543
16 to 19 years	3,329	3,329	3,225	3,243	3,244	3,425	3,363	3,309	3,360	3,335	3,302	3,323	3,378
16 to 17 years	1,331	1,339	1,294	1,300	1,291	1,382	1,308	1,276	1,272	1,285	1,337	1,301	1,332
18 to 19 years	2,000	1,995	1,943	1,945	1,954	2,032	2,049	2,022	2,089	2,050	1,940	2,015	2,037
20 to 24 years	6,492	6,445	6,359	6,348	6,235	6,363	6,333	6,339	6,289	6,292	6,196	6,241	6,165
25 years and over	41,413	41,486	41,694	41,760	41,741	41,865	41,963	42,162	42,260	42,483	42,910	42,924	43,415
25 to 54 years	35,337	35,383	35,584	35,620	35,751	35,824	35,947	36,137	36,120	36,281	36,530	36,620	37,035
55 years and over	6,084	6,080	6,088	6,141	6,009	6,027	5,990	6,069	6,162	6,208	6,354	6,301	6,361

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

(In thousands)

Sex and age	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Total, 16 years and over	6,980	6,892	6,807	6,668	6,800	6,523	6,624	6,797	6,614	6,518	6,563	6,554	6,716
18 to 24 years	2,656	2,531	2,612	2,518	2,513	2,394	2,465	2,476	2,457	2,429	2,363	2,421	2,663
16 to 19 years	1,306	1,243	1,293	1,256	1,243	1,149	1,227	1,253	1,253	1,194	1,122	1,179	1,323
16 to 17 years	627	588	578	580	536	527	571	605	650	559	520	535	581
18 to 19 years	689	665	714	658	700	642	628	660	615	629	599	637	751
20 to 24 years	1,350	1,288	1,319	1,262	1,270	1,245	1,238	1,223	1,204	1,235	1,241	1,242	1,340
25 years and over	4,370	4,377	4,171	4,144	4,253	4,146	4,143	4,334	4,179	4,061	4,193	4,125	4,101
25 to 54 years	3,861	3,887	3,742	3,696	3,765	3,675	3,702	3,828	3,733	3,651	3,739	3,687	3,632
55 years and over	516	485	443	460	498	450	457	475	436	419	433	457	474
Men, 16 years and over	3,799	3,702	3,777	3,596	3,737	3,542	3,520	3,754	3,589	3,593	3,612	3,583	3,710
16 to 24 years	1,448	1,340	1,403	1,321	1,352	1,302	1,331	1,351	1,329	1,376	1,274	1,280	1,494
16 to 19 years	693	649	713	655	672	653	688	677	684	682	616	630	772
16 to 17 years	341	300	318	300	291	301	307	301	367	318	300	290	330
18 to 19 years	366	360	399	355	377	363	359	362	329	360	314	333	455
20 to 24 years	755	691	690	666	680	649	643	674	645	694	658	650	722
25 years and over	2,378	2,369	2,367	2,270	2,348	2,259	2,191	2,417	2,270	2,195	2,331	2,296	2,245
25 to 54 years	2,056	2,071	2,071	1,994	2,051	1,961	1,936	2,088	2,014	1,946	2,050	1,999	1,986
55 years and over	335	297	296	281	304	278	278	298	255	266	275	286	269
Women, 16 years and over	3,181	3,190	3,030	3,072	3,063	2,981	3,104	3,043	3,025	2,925	2,951	2,971	3,006
16 to 24 years	1,208	1,191	1,209	1,197	1,161	1,092	1,134	1,125	1,128	1,053	1,089	1,141	1,169
16 to 19 years	613	594	580	601	571	496	539	576	569	512	506	549	551
16 to 17 years	286	288	260	280	245	226	264	304	283	241	220	245	251
18 to 19 years	323	305	315	303	323	279	269	298	286	269	285	304	296
20 to 24 years	595	597	629	596	590	596	595	549	559	541	583	592	618
25 years and over	1,992	2,008	1,804	1,874	1,905	1,887	1,952	1,917	1,909	1,866	1,862	1,829	1,856
25 to 54 years	1,805	1,816	1,671	1,702	1,714	1,714	1,766	1,740	1,719	1,705	1,689	1,688	1,646
55 years and over	181	188	147	179	194	172	179	177	181	153	158	171	205

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Civilian workers)

Sex and age	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Total, 16 years and over	5.8	5.7	5.6	5.5	5.6	5.4	5.4	5.6	5.4	5.3	5.4	5.3	5.4
16 to 24 years	11.6	11.1	11.6	11.2	11.2	10.5	10.9	11.0	10.9	10.9	10.6	10.9	11.9
16 to 19 years	16.0	15.5	16.4	15.8	15.6	14.1	15.1	15.4	15.5	15.0	14.1	14.8	16.4
16 to 17 years	18.5	17.7	17.7	17.7	16.7	15.9	17.5	18.5	19.6	17.2	15.8	16.6	18.3
18 to 19 years	14.5	14.1	15.3	14.1	14.8	13.3	13.1	13.7	12.8	13.3	12.9	13.3	15.4
20 to 24 years	9.1	8.7	9.0	8.7	8.8	8.5	8.5	8.4	8.4	8.6	8.7	8.7	9.3
25 years and over	4.5	4.4	4.2	4.2	4.3	4.2	4.2	4.4	4.2	4.1	4.2	4.1	4.1
25 to 54 years	4.6	4.7	4.5	4.4	4.5	4.4	4.4	4.5	4.4	4.3	4.4	4.3	4.2
55 years and over	3.4	3.2	2.9	3.0	3.3	3.0	3.1	3.2	2.9	2.8	2.8	3.0	3.1
Men, 16 years and over	5.7	5.5	5.7	5.4	5.6	5.3	5.3	5.6	5.4	5.4	5.4	5.3	5.5
16 to 24 years	12.2	11.4	11.9	11.2	11.5	11.0	11.3	11.4	11.3	11.8	10.9	11.1	12.8
16 to 19 years	16.5	15.8	17.4	15.9	16.3	15.4	16.3	16.0	16.4	16.5	14.8	15.4	18.6
16 to 17 years	19.2	17.6	18.6	17.6	17.4	17.5	18.1	17.7	20.8	18.5	17.3	17.3	20.6
18 to 19 years	15.1	14.9	16.6	14.7	15.3	14.3	14.4	14.5	13.5	15.0	13.0	13.5	17.9
20 to 24 years	9.8	9.0	9.0	8.7	8.9	8.5	8.5	8.9	8.5	9.2	8.8	8.7	9.6
25 years and over	4.3	4.3	4.3	4.1	4.3	4.1	4.0	4.4	4.1	4.0	4.2	4.1	4.0
25 to 54 years	4.5	4.5	4.5	4.3	4.4	4.2	4.2	4.5	4.3	4.2	4.4	4.3	4.2
55 years and over	3.8	3.4	3.4	3.2	3.5	3.2	3.2	3.4	2.9	3.0	3.2	3.3	3.0
Women, 16 years and over	5.8	5.9	5.6	5.6	5.6	5.5	5.7	5.5	5.5	5.3	5.3	5.4	5.4
16 to 24 years	11.0	10.9	11.2	11.1	10.9	10.0	10.5	10.4	10.5	9.9	10.3	10.7	10.9
16 to 19 years	15.6	15.1	15.2	15.6	15.0	12.6	13.8	14.8	14.5	13.3	13.3	14.2	14.0
16 to 17 years	17.7	17.7	16.7	17.7	16.0	14.1	16.8	19.2	18.2	15.8	14.1	15.8	15.9
18 to 19 years	13.9	13.3	14.0	13.5	14.2	12.1	11.6	12.8	12.0	11.6	12.8	13.1	12.7
20 to 24 years	8.4	8.5	9.0	8.6	8.6	8.6	8.6	8.0	8.2	7.9	8.6	8.7	9.1
25 years and over	4.6	4.6	4.1	4.3	4.4	4.3	4.4	4.3	4.3	4.2	4.2	4.1	4.1
25 to 54 years	4.9	4.9	4.5	4.6	4.6	4.6	4.7	4.6	4.5	4.5	4.4	4.4	4.3
55 years and over	2.9	3.0	2.4	2.8	3.1	2.8	2.9	2.8	2.9	2.4	2.4	2.6	3.1

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
CHARACTERISTIC													
Total (all civilian workers)	5.8	5.7	5.6	5.5	5.6	5.4	5.4	5.6	5.4	5.3	5.4	5.3	5.4
Men, 20 years and over	5.0	4.9	4.9	4.7	4.9	4.6	4.5	4.9	4.6	4.6	4.8	4.7	4.6
Women, 20 years and over	5.1	5.1	4.9	4.9	4.9	4.9	5.0	4.8	4.8	4.7	4.7	4.7	4.7
Both sexes, 16 to 19 years	16.0	15.5	16.4	15.8	15.6	14.1	15.1	15.4	15.5	15.0	14.1	14.8	16.4
White	5.0	4.8	4.7	4.6	4.7	4.6	4.7	4.9	4.7	4.6	4.6	4.6	4.6
Black and other	10.9	11.2	11.3	10.6	10.9	10.3	10.1	10.0	9.5	9.8	10.0	10.0	10.6
Black	12.2	12.4	12.5	12.0	12.1	11.7	11.5	11.4	10.9	11.2	11.2	11.6	12.0
Hispanic origin	7.5	8.3	8.3	9.0	8.8	8.7	8.1	8.4	7.5	7.8	8.0	7.6	8.4
Married men, spouse present	3.5	3.4	3.4	3.1	3.3	3.2	3.1	3.4	3.1	3.1	3.3	3.1	3.1
Married women, spouse present	4.1	4.0	4.0	3.8	3.9	3.9	4.0	3.8	3.8	3.7	3.8	3.7	3.6
Women who maintain families	8.8	8.3	7.5	8.5	8.4	7.9	8.5	7.5	8.1	7.9	7.7	8.2	8.0
Full-time workers	5.4	5.3	5.3	5.1	5.2	5.0	5.0	5.3	5.1	5.0	5.0	5.1	5.0
Part-time workers	8.3	7.9	7.8	7.5	7.7	7.7	8.0	7.4	7.4	7.4	7.1	7.0	7.9
Unemployed 15 weeks and over ¹	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2
Labor force time lost ²	6.6	6.6	6.5	6.2	6.4	6.3	6.4	6.4	6.3	6.1	6.2	6.3	6.2
INDUSTRY													
Nonagricultural private wage and salary workers	5.8	5.7	5.6	5.4	5.6	5.4	5.4	5.6	5.4	5.4	5.5	5.4	5.6
Goods-producing industries	6.9	6.8	6.5	6.5	6.5	6.2	6.3	6.7	6.4	6.4	6.4	6.4	6.4
Mining	7.5	7.8	8.2	8.1	9.4	6.8	5.4	7.0	8.6	8.8	8.9	7.7	6.1
Construction	11.9	10.9	10.6	10.6	10.5	10.3	10.4	10.7	9.6	10.0	10.6	10.4	10.4
Manufacturing	5.5	5.6	5.2	5.3	5.3	4.9	5.2	5.5	5.4	5.3	5.1	5.2	5.3
Durable goods	5.3	5.7	5.1	4.8	4.9	4.5	4.9	5.0	5.2	5.0	4.9	5.0	5.0
Nondurable goods	5.8	5.4	5.4	5.9	5.9	5.5	5.6	6.3	5.8	5.7	5.3	5.5	5.7
Service-producing industries	5.3	5.2	5.2	4.8	5.2	5.1	5.0	5.1	5.0	4.9	5.1	4.9	5.2
Transportation and public utilities	3.7	3.8	4.1	3.8	4.2	4.1	3.6	3.8	3.8	3.5	4.0	3.8	3.8
Wholesale and retail trade	6.2	6.3	6.7	5.9	6.3	6.0	6.2	6.4	6.2	6.0	6.2	6.3	6.3
Finance and service industries	4.9	4.6	4.3	4.3	4.6	4.6	4.5	4.4	4.4	4.5	4.6	4.1	4.7
Government workers	3.0	2.9	2.9	3.0	2.9	2.9	3.0	2.9	2.7	2.6	2.5	2.7	2.7
Agricultural wage and salary workers	11.4	10.5	11.0	11.0	12.4	10.0	11.0	11.0	10.8	10.2	9.3	8.8	9.5

¹ Unemployment as a percent of the civilian labor force.

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

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

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

(Numbers in thousands)

Weeks of unemployment	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
DURATION													
Less than 5 weeks	3,118	3,097	3,057	3,093	3,072	3,093	2,985	3,158	3,116	3,059	3,117	3,029	3,181
5 to 14 weeks	2,214	2,093	2,060	1,969	2,068	1,910	2,041	1,956	1,896	1,835	1,935	2,039	2,081
15 weeks and over	1,728	1,732	1,693	1,582	1,614	1,543	1,619	1,636	1,568	1,554	1,502	1,495	1,512
15 to 26 weeks	838	842	851	756	789	749	826	831	775	788	787	758	757
27 weeks and over	890	890	842	826	825	794	793	805	793	766	715	737	755
Average (mean) duration, in weeks	14.2	14.1	13.8	13.5	13.8	13.2	13.5	13.5	13.5	13.4	12.6	12.8	12.7
Median duration, in weeks	6.3	6.3	6.4	5.8	5.9	5.9	6.2	5.9	5.7	5.7	5.6	5.8	5.7
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	44.2	44.7	44.9	46.6	45.5	47.3	44.9	46.8	47.4	47.4	47.6	46.2	47.0
5 to 14 weeks	31.4	30.2	30.2	29.6	30.6	29.2	30.7	29.0	28.8	28.5	29.5	31.1	30.7
15 weeks and over	24.5	25.0	24.9	23.8	23.9	23.6	24.4	24.2	23.8	24.1	22.9	22.8	22.3
15 to 26 weeks	11.9	12.2	12.5	11.4	11.7	11.4	12.4	12.3	11.8	12.2	12.0	11.5	11.2
27 weeks and over	12.6	12.9	12.4	12.4	12.2	12.1	11.9	11.9	12.1	11.9	10.9	11.2	11.1

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

(Numbers in thousands)

Reasons for unemployment	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
NUMBER OF UNEMPLOYED													
Job losers	3,181	3,182	3,131	2,968	3,201	3,070	3,085	3,112	3,079	2,951	3,031	3,066	3,121
On layoff	872	877	882	844	806	861	853	880	833	844	814	819	827
Other job losers	2,309	2,305	2,249	2,124	2,395	2,209	2,232	2,232	2,246	2,107	2,217	2,247	2,294
Job leavers	1,046	969	1,059	985	942	953	923	986	985	984	963	998	985
Reentrants	1,907	1,916	1,792	1,804	1,804	1,747	1,883	1,843	1,767	1,747	1,766	1,725	1,835
New entrants	870	855	871	886	811	800	799	800	761	747	799	799	780
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	45.4	46.0	45.7	44.7	47.4	46.7	46.1	46.2	46.7	45.9	46.2	46.5	46.4
On layoff	12.5	12.7	12.9	12.7	11.9	13.1	12.8	13.1	12.6	13.1	12.4	12.4	12.3
Other job losers	33.0	33.3	32.8	32.0	35.4	33.6	33.4	33.1	34.1	32.8	33.8	34.1	34.1
Job leavers	14.9	14.0	15.5	14.8	13.9	14.5	13.8	14.6	14.9	15.3	14.7	15.1	14.7
Reentrants	27.2	27.7	26.1	27.2	26.7	26.6	28.1	27.3	26.8	27.2	26.9	26.2	27.3
New entrants	12.4	12.4	12.7	13.3	12.0	12.2	11.9	11.9	11.5	11.6	12.2	12.1	11.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.6	2.6	2.6	2.4	2.6	2.5	2.5	2.6	2.5	2.4	2.5	2.5	2.5
Job leavers .....	.9	.8	.9	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8
Reentrants	1.6	1.6	1.5	1.5	1.5	1.4	1.5	1.5	1.4	1.4	1.4	1.4	1.5
New entrants .....	.7	.7	.7	.7	.7	.7	.7	.7	.6	.6	.7	.7	.6

**ESTABLISHMENT DATA
HISTORICAL EMPLOYMENT**

B-1. Employees on nonagricultural payrolls by major industry, 1937 to date

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing						Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Federal	State	Local
Annual averages															
1937	31,011	27,255	12,936	1,015	1,127	10,794	18,075	3,134	(¹)	(¹)	1,417	3,503	(¹)	(¹)	(¹)
1938	29,194	25,311	11,401	891	1,070	9,440	17,793	2,683	(¹)	(¹)	1,410	3,458	(¹)	(¹)	(¹)
1939	30,603	26,608	12,297	854	1,165	10,278	18,306	2,936	1,782	4,664	1,447	3,502	905	(¹)	(¹)
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,036	1,835	4,914	1,485	3,665	996	(¹)	(¹)
1941	36,539	31,877	15,963	957	1,814	13,192	20,574	3,274	1,960	5,251	1,525	3,905	1,340	(¹)	(¹)
1942	40,106	34,824	18,470	992	2,198	15,280	21,636	3,460	1,908	5,212	1,509	4,066	2,213	(¹)	(¹)
1943	42,434	36,356	20,114	925	1,587	17,602	22,320	3,647	1,822	5,160	1,461	4,130	2,905	(¹)	(¹)
1944	41,864	35,822	19,328	892	1,106	17,328	22,536	3,629	1,845	5,214	1,461	4,145	2,928	(¹)	(¹)
1945	40,374	34,431	17,507	838	1,147	15,524	22,867	3,906	1,949	5,365	1,461	4,222	2,808	(¹)	(¹)
1946	41,652	36,056	17,248	862	1,683	14,703	24,404	4,061	2,291	6,064	1,675	4,697	2,254	(¹)	(¹)
1947	43,857	38,362	18,509	955	2,009	15,545	25,346	4,166	2,471	6,465	1,726	5,025	1,692	(¹)	(¹)
1948	44,886	39,216	18,774	994	2,198	15,582	26,092	4,169	2,605	6,667	1,600	5,161	1,663	(¹)	(¹)
1949	43,754	37,697	17,585	930	2,194	14,441	26,189	4,001	2,602	6,662	1,628	5,240	1,908	(¹)	(¹)
1950	45,197	39,170	18,506	901	2,384	15,241	26,691	4,034	2,635	6,751	1,686	5,357	1,928	(¹)	(¹)
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,228	2,727	7,015	1,958	5,547	2,302	(¹)	(¹)
1952	46,793	42,185	20,198	898	2,666	16,832	28,595	4,248	2,812	7,192	2,035	5,899	2,420	(¹)	(¹)
1953	50,202	43,556	21,074	868	2,659	17,549	29,128	4,290	2,854	7,393	2,111	5,835	2,305	(¹)	(¹)
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,867	7,366	2,200	5,969	2,188	(¹)	(¹)
1955	50,841	43,727	20,513	792	2,839	16,862	30,128	4,141	2,926	7,810	2,298	6,240	2,167	1,168	3,558
1956	52,369	45,091	21,104	822	3,039	17,243	31,266	4,244	3,018	7,840	2,369	6,497	2,209	1,250	3,819
1957	52,653	45,239	20,964	828	2,982	17,174	31,669	4,241	3,028	7,858	2,438	6,708	2,217	1,328	4,071
1958	51,324	43,483	19,513	761	2,817	15,945	31,811	3,976	2,960	7,770	2,481	6,765	2,191	1,415	4,232
1959 ²	53,266	45,168	20,411	732	3,004	16,675	32,857	4,011	3,082	8,045	2,549	7,087	2,233	1,484	4,366
1960	54,189	45,838	20,434	712	2,926	16,798	33,755	4,004	3,143	8,246	2,629	7,378	2,270	1,536	4,547
1961	53,999	45,404	19,857	672	2,859	16,328	34,142	3,903	3,133	8,204	2,688	7,620	2,279	1,607	4,708
1962	55,549	48,660	20,451	650	2,948	16,953	35,098	3,908	3,196	8,368	2,754	7,962	2,340	1,666	4,881
1963	56,653	47,429	20,640	635	3,010	16,995	36,013	3,903	3,248	8,530	2,830	8,277	2,356	1,747	5,121
1964	58,283	48,666	21,005	634	3,097	17,274	37,278	3,951	3,337	8,623	2,911	8,660	2,348	1,856	5,392
1965	60,765	50,689	21,926	632	3,232	18,062	38,839	4,036	3,466	9,250	2,977	9,036	2,376	1,996	5,700
1966	63,901	53,116	23,158	627	3,317	19,214	40,743	4,158	3,567	9,648	3,058	9,498	2,584	2,141	6,080
1967	65,603	54,413	23,308	613	3,246	19,447	42,495	4,268	3,689	9,917	3,165	10,045	2,719	2,302	6,371
1968	67,697	56,056	23,737	606	3,350	19,761	44,160	4,316	3,779	10,320	3,337	10,567	2,737	2,442	6,660
1969	70,384	58,169	24,361	619	3,575	20,167	46,023	4,442	3,907	10,796	3,512	11,169	2,758	2,533	6,904
1970	70,680	58,325	23,578	623	3,588	19,367	47,302	4,515	3,993	11,047	3,645	11,548	2,731	2,664	7,158
1971	71,214	58,331	22,935	609	3,704	18,623	48,001	4,476	4,001	11,351	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,668	626	3,869	19,151	50,007	4,541	4,113	11,636	3,908	12,276	2,664	2,659	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,277	12,329	4,048	12,657	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,433	12,554	4,148	13,441	2,724	3,039	8,407
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,415	12,645	4,165	13,692	2,748	3,179	8,758
1976	79,382	64,511	23,352	779	3,576	18,997	56,392	4,582	4,548	13,209	4,271	14,551	2,733	3,273	8,665
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,708	13,606	4,467	15,303	2,727	3,377	9,023
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,969	14,573	4,724	16,252	2,753	3,474	9,448
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,204	14,989	4,975	17,112	2,773	3,541	9,633
1980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,275	15,035	5,160	17,890	2,666	3,610	9,765
1981	91,156	75,126	25,497	1,139	4,188	20,170	65,859	5,165	5,358	15,189	5,298	18,619	2,772	3,640	9,619
1982	89,566	73,729	23,813	1,128	3,905	18,781	65,753	5,082	5,278	15,179	5,341	19,036	2,739	3,640	9,458
1983	90,200	74,330	23,334	952	3,948	18,434	66,866	4,954	5,268	15,613	5,468	19,694	2,774	3,662	9,434
1984	94,496	78,472	24,727	966	4,383	19,378	69,769	5,159	5,555	16,545	5,689	20,797	2,807	3,734	9,482
1985	97,519	81,125	24,859	927	4,673	19,260	72,660	5,238	5,717	17,358	5,955	22,000	2,675	3,832	9,687
1986	99,525	82,832	24,558	777	4,816	18,965	74,967	5,255	5,753	17,930	6,283	23,053	2,899	3,893	9,901
1987	102,310	85,295	24,784	721	4,998	19,065	77,525	5,385	5,872	18,509	6,549	24,196	2,943	3,963	10,109
1988 ³	106,039	88,652	25,565	733	5,294	19,538	80,475	5,584	6,156	19,206	6,679	25,464	2,972	4,051	10,364
Monthly data, seasonally adjusted															
1988:															
January	104,262	87,044	25,180	728	5,083	19,369	79,082	5,499	6,010	18,927	6,633	24,795	2,973	4,006	10,239
February	104,729	87,475	25,271	731	5,150	19,390	79,458	5,513	6,035	19,045	6,636	24,975	2,972	4,014	10,268
March	105,020	87,700	25,330	733	5,192	19,405	79,690	5,530	6,061	19,050	6,651	25,078	2,970	4,031	10,319
April	105,281	87,973	25,435	737	5,238	19,460	79,846	5,543	6,069	19,093	6,650	25,163	2,963	4,041	10,304
May	105,489	88,139	25,466	739	5,237	19,490	80,023	5,556	6,115	19,130	6,656	25,216	2,967	4,050	10,343
June	106,057	88,678	25,592	740	5,308	19,544	80,465	5,582	6,148	19,205	6,679	25,472	2,951	4,049	10,379
July	106,271	88,941	25,663	740	5,330	19,593	80,608	5,598	6,174	19,261	6,684	25,561	2,951	4,059	10,320
August	106,425	89,066	25,639	739	5,340	19,560	80,766	5,605	6,192	19,279	6,689	25,662	2,956	4,070	10,333
September	106,737	89,205	25,648	734	5,365	19,549	81,089	5,618	6,219	19,291	6,692	25,737	2,989	4,086	10,457
October	106,973	89,481	25,743	729	5,366	19,648	81,230	5,631	6,246	19,327	6,708	25,826	2,969	4,070	10,433
November	107,419	89,855	25,849	722	5,413	19,714	81,570	5,658	6,275	19,401	6,725	25,947	2,989	4,071	10,501
December ⁴	107,640	90,094	25,892	719	5,436	19,737	81,746	5,667	6,300	19,427	6,743	26,065	2,999	4,074	10,476
1989:															
January ⁵	108,048	90,520	26,040	719	5,536	19,783	82,008	5,713	6,333	19,560	6,735	26,139	3,003	4,056	10,469

¹ Not available.
² Data include Alaska and Hawaii beginning in 1959. This inclusion resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark month.
³ = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1987) and all seasonally adjusted data (beginning January 1984) are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-2. Employees on nonagricultural payrolls by detailed industry

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p
Total		104,809	102,802	108,313	108,487	106,514	-	-	-	-	-
Total private		87,318	85,593	90,386	90,645	88,993	70,767	69,028	73,181	73,382	71,746
Mining		740	722	731	724	713	535	518	529	523	513
Metal mining	10	44.8	45.4	51.6	51.9	-	34.2	34.7	40.2	40.5	-
Iron ores	101	6.4	6.7	7.2	7.6	-	4.9	5.2	5.9	6.2	-
Copper ores	102	14.2	14.2	14.4	14.5	-	11.3	11.2	11.1	11.2	-
Coal mining	11,12	161.9	159.0	152.3	151.4	-	132.4	130.1	124.9	124.2	-
Bituminous coal and lignite mining	12	160.0	157.2	150.2	149.4	-	130.8	128.5	123.1	122.4	-
Oil and gas extraction	13	425.4	418.0	412.4	410.5	405.7	285.5	278.8	275.9	274.2	-
Crude petroleum, natural gas, and natural gas liquids ...	131,2	204.8	202.4	196.9	196.6	-	102.1	100.6	98.8	98.5	-
Oil and gas field services	138	220.6	215.6	215.5	213.9	-	183.4	178.2	177.1	175.7	-
Nonmetallic minerals, except fuels	14	108.1	99.8	114.4	110.2	-	82.7	74.4	87.7	83.7	-
Crushed and broken stone	142	39.5	35.5	42.0	40.3	-	30.9	27.0	33.1	31.5	-
Sand and gravel	144	32.8	29.2	35.3	33.1	-	-	-	-	-	-
Chemical and fertilizer minerals	147	17.1	17.1	17.9	17.9	-	-	-	-	-	-
Construction		5,063	4,642	5,559	5,382	5,056	3,942	3,529	4,370	4,189	3,862
General building contractors	15	1,353.5	1,276.6	1,445.7	1,415.5	1,353.6	987.5	910.7	1,064.6	1,033.1	-
Residential building construction	152	717.2	677.7	780.0	764.2	-	510.0	470.4	562.6	546.0	-
Operative builders	153	53.4	51.5	52.2	52.2	-	24.7	23.4	23.3	23.3	-
Nonresidential building construction	154	582.9	547.4	613.5	599.1	-	452.8	416.9	478.7	463.8	-
Heavy construction contractors	16	742.7	626.7	814.1	750.0	-	616.7	503.7	685.9	621.6	-
Highway and street construction	161	250.9	194.0	298.8	253.9	-	203.7	148.3	249.1	204.7	-
Heavy construction, except highway	162	491.8	432.7	515.3	496.1	-	413.0	355.4	436.8	416.9	-
Special trade contractors	17	2,966.4	2,738.8	3,298.8	3,216.5	-	2,338.2	2,115.0	2,619.6	2,534.2	-
Plumbing, heating, and air conditioning	171	649.7	632.8	697.7	697.0	-	481.9	463.7	519.7	517.2	-
Painting, paper hanging, and decorating	172	172.7	155.9	187.4	179.2	-	143.8	128.5	156.2	150.1	-
Electrical work	173	560.9	547.3	602.4	602.5	-	438.1	422.5	470.5	468.2	-
Masonry, stonework, and plastering	174	488.8	436.9	561.4	537.1	-	417.8	367.8	483.6	460.5	-
Carpentering and flooring	175	184.2	175.0	193.6	193.4	-	140.7	133.0	148.6	148.4	-
Roofing and sheet metal work	176	209.7	177.4	230.9	220.8	-	167.8	134.3	185.4	175.2	-
Manufacturing		19,370	19,231	19,798	19,763	19,645	13,239	13,101	13,549	13,503	13,400
Durable goods		11,415	11,332	11,682	11,679	11,610	7,615	7,531	7,813	7,805	7,747
Lumber and wood products	24	743.2	729.1	767.5	760.8	748.6	620.3	605.6	639.1	632.2	621.9
Logging camps and logging contractors	241	85.0	81.8	94.4	89.9	-	70.9	68.1	78.9	74.7	-
Sawmills and planing mills	242	203.7	199.9	204.8	205.8	-	179.4	175.3	179.7	180.2	-
Sawmills and planing mills, general	2421	165.4	162.0	167.1	167.8	-	145.7	142.1	146.5	146.9	-
Hardwood dimension and flooring	2426	34.8	34.8	34.2	34.5	-	30.7	30.7	30.1	30.3	-
Millwork, plywood, and structural members	243	260.3	257.6	266.0	264.4	-	215.1	211.4	217.8	216.2	-
Millwork	2431	99.8	98.5	102.9	101.5	-	80.5	78.7	82.7	81.3	-
Wood kitchen cabinets	2434	71.0	69.9	70.7	70.8	-	57.4	56.1	56.4	56.5	-
Hardwood veneer and plywood	2435	24.4	24.4	24.8	24.7	-	21.4	21.4	21.5	21.5	-
Softwood veneer and plywood	2436	37.6	38.3	38.0	38.0	-	34.2	34.7	34.2	34.1	-
Wood containers	244	41.2	41.0	42.5	42.2	-	34.8	34.6	36.2	35.9	-
Wood buildings and mobile homes	245	69.8	65.5	74.6	73.7	-	52.3	48.3	56.8	56.1	-
Mobile homes	2451	46.1	44.0	51.1	50.3	-	37.1	35.1	41.7	41.1	-
Miscellaneous wood products	249	83.2	83.3	85.2	84.8	-	67.8	67.9	69.7	69.1	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p
Durable goods—Continued											
Furniture and fixtures	25	538.8	537.9	547.0	545.4	541.8	432.4	430.0	438.6	437.8	434.1
Household furniture	251	321.7	321.4	323.6	323.4	-	272.6	272.2	274.6	274.7	-
Wood household furniture	2511	144.6	145.0	145.9	146.1	-	126.6	126.5	127.8	127.9	-
Upholstered household furniture	2512	103.1	103.1	104.7	104.4	-	86.8	86.7	88.0	87.8	-
Metal household furniture	2514	28.9	29.3	27.9	28.0	-	23.5	24.1	22.7	22.8	-
Mattresses and bedspings	2515	29.1	28.8	30.1	29.8	-	22.2	22.1	23.2	23.2	-
Office furniture	252	69.5	69.4	68.3	68.3	-	52.7	52.3	51.5	51.7	-
Public building and related furniture	253	29.6	29.1	31.5	31.3	-	22.6	22.4	24.8	24.6	-
Partitions and fixtures	254	76.4	76.5	78.9	77.7	-	55.6	55.1	57.5	56.5	-
Miscellaneous furniture and fixtures	259	41.6	41.5	44.7	44.7	-	28.9	28.0	30.2	30.3	-
Stone, clay, and glass products	32	580.9	563.1	594.6	586.4	572.0	450.8	433.7	463.5	455.4	442.0
Flat glass	321	14.7	14.8	15.3	15.5	-	11.5	11.6	12.2	12.4	-
Glass and glassware, pressed or blown	322	85.4	84.4	84.9	83.6	-	73.6	72.5	73.3	72.2	-
Glass containers	3221	42.9	42.9	42.8	41.3	-	38.8	38.6	38.8	37.4	-
Pressed and blown glass, nec	3229	42.5	41.5	42.1	42.3	-	34.8	33.9	34.5	34.8	-
Products of purchased glass	323	51.5	51.2	53.3	53.1	-	37.4	37.2	40.6	40.7	-
Cement, hydraulic	324	20.4	20.2	20.2	20.2	-	15.5	15.5	15.4	15.3	-
Structural clay products	325	38.7	37.9	39.0	38.9	-	30.4	29.5	30.7	30.5	-
Pottery and related products	326	37.0	37.3	38.6	39.3	-	29.6	29.8	31.0	31.7	-
Concrete, gypsum, and plaster products	327	207.9	193.6	214.2	206.8	-	160.5	146.5	164.6	157.4	-
Concrete block and brick	3271	20.0	19.1	20.7	20.0	-	13.2	12.4	13.4	12.9	-
Concrete products, nec	3272	70.8	68.1	73.3	71.7	-	54.0	51.1	55.7	54.1	-
Ready-mixed concrete	3273	97.9	87.4	101.1	96.1	-	78.3	68.3	80.7	75.7	-
Misc. nonmetallic mineral products	329	112.6	111.6	115.2	114.9	-	82.2	81.7	84.9	84.3	-
Abrasive products	3291	21.7	21.7	22.3	22.5	-	15.1	15.0	15.6	15.8	-
Asbestos products	3292	8.8	8.6	8.7	8.7	-	6.7	6.6	6.5	6.5	-
Mineral wool	3296	24.9	24.5	25.0	24.8	-	-	-	-	-	-
Primary metal industries	33	769.3	768.8	794.0	795.0	794.8	585.0	584.6	609.0	610.5	609.6
Blast furnaces and basic steel products	331	279.2	279.3	280.9	280.3	280.3	213.9	214.6	217.2	217.2	217.2
Blast furnaces and steel mills	3312	211.2	211.5	211.6	210.9	-	162.9	163.8	165.2	165.0	-
Steel pipe and tubes	3317	24.6	24.4	25.2	25.3	-	18.5	18.3	19.1	19.2	-
Iron and steel foundries	332	134.9	133.7	145.8	146.8	-	107.3	106.2	117.8	118.5	-
Gray iron foundries	3321	83.7	82.4	88.2	88.7	-	68.2	66.9	72.6	72.9	-
Malleable iron foundries	3322	9.0	8.9	9.5	9.6	-	6.7	6.6	7.2	7.4	-
Steel foundries, nec	3325	28.0	28.6	33.3	33.5	-	21.3	21.9	26.3	26.4	-
Primary nonferrous metals	333	40.6	41.3	42.3	42.6	-	29.7	30.1	31.5	31.8	-
Primary aluminum	3334	21.6	22.0	22.8	23.1	-	15.9	16.3	17.4	17.8	-
Nonferrous rolling and drawing	335	182.8	182.9	187.1	187.1	-	131.0	130.9	134.3	134.5	-
Copper rolling and drawing	3351	24.0	24.1	24.5	24.5	-	18.7	18.6	18.7	18.9	-
Aluminum sheet, plate, and foil	3353	28.1	28.0	27.9	28.0	-	19.8	19.7	19.0	18.9	-
Nonferrous wire drawing and insulating	3357	78.6	78.4	82.0	82.0	-	56.1	55.9	59.8	60.0	-
Nonferrous foundries	336	88.3	88.2	92.2	92.4	-	70.7	70.8	74.3	74.4	-
Aluminum foundries	3361	54.5	54.2	56.0	55.9	-	44.4	44.3	45.8	45.8	-
Fabricated metal products	34	1,438.7	1,428.6	1,482.5	1,482.6	1,477.2	1,071.8	1,061.6	1,107.9	1,106.4	1,104.2
Metal cans and shipping containers	341	54.5	54.3	54.2	53.3	-	46.2	46.1	46.8	45.8	-
Metal cans	3411	43.9	43.8	43.2	42.2	-	37.7	37.6	37.7	36.7	-
Cutlery, hand tools, and hardware	342	136.1	134.5	133.2	132.8	-	101.2	99.5	98.7	98.6	-
Hand and edge tools, and hand saws and blades	3423.5	46.9	46.7	46.0	45.9	-	34.6	34.4	33.5	33.5	-
Hardware, nec	3429	78.3	76.9	75.8	75.5	-	59.3	57.7	57.3	57.2	-
Plumbing and heating, except electric	343	63.0	62.3	65.7	65.0	-	45.3	44.7	48.2	47.4	-
Plumbing fittings and brass goods	3432	25.6	25.9	26.6	26.7	-	18.7	18.9	19.6	19.7	-
Heating equipment, except electric	3433	25.5	24.5	27.1	26.7	-	17.4	16.6	19.3	18.8	-
Fabricated structural metal products	344	434.1	429.7	449.0	448.4	-	311.2	307.1	323.6	323.0	-
Fabricated structural metal	3441	78.6	77.8	80.3	80.7	-	56.3	55.5	58.4	58.7	-
Metal doors, sash, and trim	3442	92.3	90.4	92.4	91.4	-	68.2	66.6	67.2	66.5	-
Fabricated plate work (boiler shops)	3443	88.1	88.6	95.9	95.9	-	58.1	58.4	65.3	65.3	-
Sheet metal work	3444	111.8	110.8	114.6	114.8	-	84.3	83.1	85.8	85.6	-
Architectural metal work	3446	30.7	30.3	32.9	33.2	-	22.5	22.6	24.6	24.7	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^b	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^b
Durable goods—Continued											
Fabricated metal products—Continued											
Screw machine products, bolts, etc	345	94.8	95.0	99.0	99.2	-	72.7	73.0	76.0	78.2	-
Screw machine products	3451	48.0	48.4	51.3	51.2	-	39.3	39.8	41.9	42.0	-
Bolts, nuts, rivets, and washers	3452	48.8	48.8	47.7	48.0	-	33.4	33.2	34.1	34.2	-
Metal forgings and stampings	346	237.2	233.1	244.1	245.1	-	189.4	185.2	194.7	195.2	-
Iron and steel forgings	3462	29.9	30.1	31.1	31.4	-	23.0	23.1	23.9	24.1	-
Automotive stampings	3465	98.0	93.9	99.4	99.6	-	83.6	79.7	84.4	84.5	-
Metal stampings, nec	3469	97.9	97.8	102.3	102.7	-	74.5	74.2	78.0	78.1	-
Metal services, nec	347	116.3	118.2	123.1	123.9	-	93.7	93.4	99.0	99.5	-
Plating and polishing	3471	75.6	75.2	80.0	80.4	-	61.2	60.9	64.7	65.0	-
Metal coating and allied services	3479	40.7	41.0	43.1	43.5	-	32.5	32.5	34.3	34.5	-
Ordnance and accessories, nec	348	78.2	78.6	76.7	76.3	-	47.7	48.3	48.2	47.4	-
Ammunition, except for small arms, nec	3483	43.5	43.8	41.6	41.6	-	23.7	24.1	23.3	23.0	-
Misc. fabricated metal products	349	224.5	224.9	237.5	238.6	-	164.4	184.3	172.7	173.3	-
Valves and pipe fittings	3494	83.0	83.9	90.3	90.8	-	56.2	58.9	60.9	61.2	-
Misc. fabricated wire products	3496	55.0	54.9	56.4	56.7	-	42.4	42.3	43.4	43.7	-
Machinery, except electrical	35	2,077.5	2,084.7	2,180.5	2,192.8	2,194.5	1,240.6	1,245.2	1,307.4	1,318.4	1,316.9
Engines and turbines	351	89.0	88.7	89.7	89.4	-	59.1	58.8	59.2	59.4	-
Turbines and turbine generator sets	3511	23.8	23.2	23.3	23.2	-	13.7	13.5	13.7	13.7	-
Internal combustion engines, nec	3519	85.4	85.5	88.4	86.2	-	45.4	45.3	45.5	45.7	-
Farm and garden machinery	352	99.8	101.7	105.2	107.0	-	69.0	71.4	78.0	77.6	-
Farm machinery and equipment	3523	71.2	72.2	78.2	78.8	-	47.0	48.2	53.3	53.7	-
Construction and related machinery	353	223.2	223.8	238.3	237.6	-	134.8	135.6	145.4	146.6	-
Construction machinery	3531	80.8	80.7	84.8	85.3	-	49.7	50.0	52.9	53.3	-
Mining machinery	3532	17.9	18.1	18.3	18.3	-	10.9	11.0	11.2	11.2	-
Oil field machinery	3533	41.0	41.4	45.0	45.2	-	24.4	24.8	27.2	27.2	-
Conveyors and conveying equipment	3535	33.3	32.7	33.9	33.8	-	17.6	17.2	18.2	18.5	-
Industrial trucks and tractors	3537	25.4	25.9	28.8	27.1	-	17.7	18.1	18.8	18.8	-
Metalworking machinery	354	291.0	293.2	308.1	310.5	-	208.3	209.8	222.6	224.6	-
Machine tools, metal cutting types	3541	45.0	45.5	47.7	48.0	-	28.5	26.7	30.9	31.1	-
Machine tools, metal forming types	3542	17.1	17.1	17.9	18.0	-	10.9	11.0	11.6	11.7	-
Special dies, tools, jigs, and fixtures	3544	138.3	139.5	146.1	147.5	-	105.6	106.6	112.6	113.9	-
Machine tool accessories	3545	53.2	53.5	57.2	57.5	-	38.0	38.1	40.9	41.1	-
Power driven hand tools	3546	20.1	20.2	20.6	20.7	-	14.8	14.8	15.0	15.1	-
Special industry machinery	355	166.1	166.3	177.3	178.2	-	100.0	99.4	108.7	107.6	-
Food products machinery	3551	39.0	39.1	41.1	41.0	-	23.6	23.6	24.8	24.8	-
Textile machinery	3552	20.6	20.8	21.2	21.3	-	13.9	13.8	14.0	14.1	-
Printing trades machinery	3555	27.3	27.6	29.5	29.5	-	16.3	16.3	17.8	17.9	-
General industrial machinery	356	250.7	251.8	262.3	263.0	-	161.4	162.3	170.6	171.3	-
Pumps and pumping equipment	3561	44.5	44.3	46.4	46.4	-	25.6	25.7	27.2	27.2	-
Ball and roller bearings	3562	41.5	41.5	43.3	43.6	-	32.3	32.1	33.9	34.1	-
Air and gas compressors	3563	20.4	20.6	21.0	21.0	-	12.0	12.1	12.3	12.3	-
Blowers and fans	3564	30.2	30.2	30.7	30.9	-	19.5	19.4	20.1	20.4	-
Speed changers, drives, and gears	3566	19.5	19.6	20.8	20.8	-	13.4	13.4	14.4	14.5	-
Power transmission equipment, nec	3568	17.0	17.0	17.9	18.1	-	11.3	11.5	12.2	12.4	-
Office and computing machines	357	501.1	500.6	522.8	525.0	-	169.3	167.8	169.5	171.3	-
Electronic computing equipment	3573	447.3	446.4	467.8	470.0	-	143.3	141.7	143.5	145.2	-
Refrigeration and service machinery	358	177.5	177.3	182.8	183.5	-	127.5	127.0	132.2	132.7	-
Refrigeration and heating equipment	3585	125.7	125.6	131.3	131.9	-	92.8	92.4	97.6	98.0	-
Misc. machinery, except electrical	359	279.3	281.3	296.0	298.6	-	211.2	213.1	225.2	227.3	-
Carburetors, pistons, rings, and valves	3592	31.7	31.7	32.1	32.3	-	25.2	25.3	25.4	25.4	-
Machinery, except electrical, nec	3599	247.6	249.6	263.9	266.3	-	186.0	187.8	199.8	201.9	-
Electrical and electronic equipment	36	2,117.8	2,113.3	2,138.5	2,134.5	2,125.2	1,249.5	1,242.8	1,270.0	1,265.8	1,261.6
Electric distributing equipment	361	109.5	109.1	112.9	113.3	-	79.2	78.2	80.3	80.6	-
Transformers	3612	49.7	49.3	51.2	51.4	-	36.2	35.5	37.1	37.1	-
Switchgear and switchboard apparatus	3613	59.8	59.8	61.7	61.9	-	43.0	42.7	43.2	43.5	-
Electrical industrial apparatus	362	184.3	184.7	188.8	189.1	-	126.7	127.3	131.4	131.6	-
Motors and generators	3621	88.2	88.6	90.0	90.0	-	68.0	68.3	70.5	70.5	-
Industrial controls	3622	61.1	61.4	62.8	62.9	-	35.1	35.5	38.7	37.0	-
Household appliances	363	140.3	138.1	139.5	136.9	-	111.9	110.7	113.8	111.4	-
Household refrigerators and freezers	3632	30.5	30.1	28.8	27.5	-	24.8	24.7	23.8	22.5	-
Household laundry equipment	3633	22.5	22.2	23.0	23.0	-	16.0	17.8	18.9	18.9	-
Electric housewares and fans	3634	35.7	35.1	37.9	37.0	-	27.5	27.3	30.5	29.6	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p
Durable goods—Continued											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment	364	194.7	193.1	196.0	195.5	-	141.9	140.2	142.1	142.0	-
Electric lamps	3641	25.5	25.3	25.1	25.1	-	21.8	21.6	21.3	21.3	-
Current-carrying wiring devices	3643	75.8	75.7	75.4	75.0	-	50.2	49.9	49.1	48.7	-
Noncurrent-carrying wiring devices	3644	15.7	15.7	16.3	16.2	-	11.5	11.5	12.2	12.2	-
Residential lighting fixtures	3645	28.2	27.5	29.1	28.6	-	21.4	20.8	22.2	21.7	-
Radio and TV receiving equipment	365	83.3	81.7	87.2	87.2	-	57.4	55.6	61.8	61.2	-
Radio and TV receiving sets	3651	63.2	62.1	66.0	66.8	-	42.6	41.5	45.0	45.8	-
Communication equipment	366	607.0	607.9	587.2	585.7	-	253.4	254.0	245.2	244.8	-
Telephone and telegraph apparatus	3661	117.3	117.6	115.0	113.5	-	67.1	68.0	68.8	68.0	-
Radio and TV communication equipment	3662	489.7	490.3	472.2	472.2	-	186.3	186.0	176.4	176.8	-
Electronic components and accessories	367	646.9	647.8	669.7	670.1	-	371.3	370.3	382.8	382.4	-
Electronic tubes	3671-3	38.3	38.0	38.6	38.4	-	24.6	24.2	25.0	24.7	-
Semiconductors and related devices	3674	253.6	255.2	270.1	270.5	-	99.5	99.6	108.1	108.1	-
Electronic components, nec	3679	280.3	279.8	282.7	282.6	-	191.4	190.5	191.0	190.5	-
Misc. electrical equipment and supplies	369	151.8	150.9	157.2	156.7	-	107.7	106.5	112.6	111.8	-
Storage batteries	3691	29.2	28.6	31.4	30.0	-	22.8	22.2	24.0	22.8	-
Engine electrical equipment	3694	67.2	67.2	68.7	68.9	-	51.5	50.9	53.0	53.1	-
Transportation equipment	37	2,065.9	2,032.2	2,064.3	2,070.0	2,055.9	1,302.8	1,274.0	1,291.5	1,296.4	1,283.2
Motor vehicles and equipment	371	865.7	831.1	869.4	871.7	858.2	675.7	644.4	681.4	683.3	669.1
Motor vehicles and car bodies	3711	376.6	348.0	369.0	370.0	-	284.1	259.0	280.0	280.6	-
Truck and bus bodies	3713	42.8	41.6	43.0	41.9	-	33.3	32.1	33.9	32.7	-
Motor vehicle parts and accessories	3714	397.3	393.5	403.7	406.7	-	319.9	316.1	324.9	327.8	-
Truck trailers	3715	30.9	29.8	33.0	33.1	-	24.2	23.0	26.3	26.4	-
Aircraft and parts	372	707.3	707.6	699.3	701.4	-	352.1	352.6	341.8	342.9	-
Aircraft	3721	368.1	369.3	371.7	373.2	-	164.4	165.9	164.0	164.8	-
Aircraft engines and engine parts	3724	155.4	155.0	148.2	147.9	-	79.2	79.0	74.8	74.6	-
Aircraft equipment, nec	3728	183.8	183.3	179.4	180.3	-	108.5	107.7	103.0	103.5	-
Ship and boat building and repairing	373	194.0	195.6	192.1	191.6	-	147.5	149.7	139.3	139.7	-
Ship building and repairing	3731	129.9	131.2	126.9	126.7	-	95.6	97.2	85.7	85.4	-
Boat building and repairing	3732	64.1	64.4	65.2	64.9	-	51.9	52.5	53.6	54.3	-
Railroad equipment	374	28.5	28.5	35.4	36.0	-	20.5	20.4	26.5	27.1	-
Guided missiles, space vehicles, and parts	376	207.8	206.5	206.2	206.3	-	64.8	64.3	60.9	61.1	-
Guided missiles and space vehicles	3761	156.1	154.6	154.5	154.7	-	47.7	47.1	43.2	43.3	-
Miscellaneous transportation equipment	379	51.3	50.8	50.4	50.5	-	34.4	34.2	33.6	33.6	-
Travel trailers and campers	3792	19.6	19.5	20.1	20.4	-	15.1	15.2	15.8	15.9	-
Instruments and related products	38	705.3	702.9	722.1	726.9	725.3	386.8	385.9	400.3	404.1	402.3
Engineering and scientific instruments	381	84.5	84.5	87.3	87.9	-	39.0	39.1	40.7	41.3	-
Measuring and controlling devices	382	237.4	235.5	236.6	238.1	-	133.0	132.5	135.8	136.8	-
Environmental controls	3822	41.9	41.9	41.4	41.5	-	27.4	27.4	27.7	27.9	-
Process control instruments	3823	53.8	52.6	54.3	55.0	-	28.5	28.2	29.2	29.6	-
Instruments to measure electricity	3825	101.0	100.8	100.4	100.6	-	49.4	49.5	51.4	51.4	-
Optical instruments and lenses	383	34.0	34.0	35.7	36.0	-	16.8	16.9	18.3	18.7	-
Medical instruments and supplies	384	193.5	193.3	204.0	205.6	-	117.5	117.2	123.3	124.6	-
Surgical and medical instruments	3841	94.8	94.5	99.2	100.2	-	55.0	54.4	57.7	58.3	-
Surgical appliances and supplies	3842	84.5	84.5	89.6	90.2	-	54.4	54.7	57.1	57.7	-
Ophthalmic goods	385	37.7	37.7	37.8	37.8	-	26.0	25.9	25.9	25.9	-
Photographic equipment and supplies	386	106.5	106.4	109.5	110.2	-	45.8	45.7	47.8	48.1	-
Watches, clocks, and watchcases	387	11.7	11.5	11.2	11.3	-	8.7	8.6	8.5	8.7	-
Miscellaneous manufacturing	39	377.8	371.1	391.3	384.2	375.1	274.8	267.7	285.8	277.7	271.5
Jewelry, silverware, and plated ware	391	55.5	54.4	58.0	57.5	-	38.6	37.7	41.5	40.6	-
Jewelry, precious metal	3911	39.5	38.2	41.1	40.6	-	27.4	26.3	29.3	28.6	-
Musical instruments	393	12.8	12.5	12.5	12.6	-	10.7	10.4	10.4	10.3	-
Toys and sporting goods	394	100.2	98.9	106.1	103.3	-	75.0	73.6	78.8	75.5	-
Dolls, games, toys, and children's vehicles	3942,4	44.2	43.8	48.4	44.9	-	31.9	31.1	35.0	31.1	-
Sporting and athletic goods, nec	3949	56.0	55.1	57.7	58.4	-	43.1	42.5	43.8	44.4	-
Pens, pencils, office, and art supplies	395	32.5	32.9	33.0	33.0	-	22.7	22.8	23.1	23.1	-
Costume jewelry and notions	396	41.5	38.1	41.6	39.3	-	31.8	28.5	32.1	29.8	-
Costume jewelry	3961	22.3	20.3	22.2	21.0	-	17.3	15.3	16.9	16.0	-
Miscellaneous manufactures	399	135.3	134.3	140.1	138.5	-	96.0	94.7	99.9	98.4	-
Signs and advertising displays	3993	59.7	59.6	62.1	61.9	-	41.3	40.9	43.0	43.1	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a
Nondurable goods		7,955	7,899	8,116	8,084	8,035	5,624	5,570	5,736	5,698	5,653
Food and kindred products	20	1,627.9	1,597.9	1,675.8	1,644.5	1,615.7	1,151.9	1,123.4	1,196.0	1,163.9	1,138.5
Meat products	201	398.1	392.0	408.5	409.1	-	338.2	331.3	346.3	345.9	-
Meat packing plants	2011	141.6	140.6	145.1	145.7	-	119.3	118.2	121.4	121.9	-
Sausages and other prepared meats	2013	81.1	79.3	82.4	82.8	-	59.9	58.2	60.9	60.7	-
Poultry dressing plants	2016	154.4	151.2	160.0	159.2	-	140.3	136.2	145.3	144.3	-
Dairy products	202	162.8	160.8	163.0	163.3	-	98.2	96.5	98.5	98.5	-
Cheese, natural and processed	2022	42.8	41.8	43.7	43.9	-	32.7	31.9	33.4	33.5	-
Fluid milk	2026	80.6	80.0	80.4	80.4	-	39.9	39.4	40.1	40.1	-
Preserved fruits and vegetables	203	221.6	213.6	245.9	223.7	-	179.0	171.2	201.1	179.5	-
Canned specialties	2032	24.2	24.1	25.3	25.3	-	16.9	16.9	18.2	18.3	-
Canned fruits and vegetables	2033	65.4	64.0	79.8	67.9	-	52.2	51.0	66.0	54.3	-
Frozen fruits and vegetables	2037	40.9	37.5	47.7	40.6	-	35.3	31.9	42.1	34.9	-
Grain mill products	204	130.1	129.8	135.0	135.0	-	90.6	89.7	94.6	94.6	-
Flour and other grain mill products	2041	23.5	23.6	24.6	24.5	-	16.3	16.2	17.1	16.9	-
Prepared feeds, nec	2048	43.3	43.3	44.5	44.5	-	27.7	27.3	28.2	28.2	-
Bakery products	205	210.9	207.8	210.0	208.0	-	130.3	126.5	129.1	127.8	-
Bread, cake, and related products	2051	162.8	160.9	162.1	159.9	-	92.0	90.0	92.3	91.0	-
Cookies and crackers	2052	48.1	46.9	47.9	48.1	-	38.3	36.5	36.8	36.8	-
Sugar and confectionery products	206	103.6	97.0	111.4	105.0	-	82.3	76.5	90.7	83.5	-
Cane and beet sugar	2061-3	24.9	23.0	25.1	23.3	-	19.6	18.0	20.5	18.5	-
Confectionery products	2065	58.8	54.3	66.5	62.0	-	49.1	45.0	56.8	51.8	-
Fats and oils	207	34.7	34.4	34.8	34.7	-	25.7	25.5	26.0	25.7	-
Beverages	208	199.6	196.5	197.2	197.0	-	84.0	82.8	83.4	83.7	-
Malt beverages	2082	39.7	39.2	39.1	39.2	-	24.9	24.5	23.5	23.6	-
Bottled and canned soft drinks	2086	117.0	115.8	115.1	115.0	-	37.7	37.9	37.6	37.7	-
Misc. food and kindred products	209	166.5	166.0	170.0	168.7	-	123.6	123.4	126.3	124.7	-
Tobacco manufactures	21	57.0	57.0	54.6	54.3	53.4	43.6	43.9	41.2	40.9	39.8
Cigarettes	211	39.0	38.6	38.3	38.0	-	29.0	28.9	28.4	28.1	-
Textile mill products	22	733.6	728.5	725.4	724.3	722.7	636.6	632.7	629.0	628.1	625.5
Weaving mills, cotton	221	102.4	102.3	96.2	95.8	-	92.5	92.3	87.0	86.6	-
Weaving mills, synthetics	222	90.9	91.0	95.0	95.4	-	81.1	81.1	84.3	84.8	-
Weaving and finishing mills, wool	223	19.1	19.3	19.7	19.8	-	15.6	15.8	16.0	16.2	-
Narrow fabric mills	224	23.7	23.9	25.4	25.3	-	20.5	20.7	21.8	21.7	-
Knitting mills	225	211.4	207.0	205.9	205.0	-	185.6	182.6	181.7	180.7	-
Women's hosiery, except socks	2251	35.0	34.8	32.2	32.4	-	31.2	31.1	29.1	29.3	-
Hosiery, nec	2252	35.4	34.6	34.6	34.6	-	31.8	31.2	31.3	30.9	-
Knit outerwear mills	2253	70.7	67.7	69.2	67.9	-	62.9	60.6	61.8	60.6	-
Knit underwear mills	2254	25.7	25.5	25.2	25.3	-	21.8	21.7	21.2	21.5	-
Circular knit fabric mills	2257	25.9	25.9	25.8	25.9	-	22.4	22.6	22.5	22.6	-
Textile finishing, except wool	226	60.7	60.7	58.7	59.1	-	50.9	50.6	48.5	48.9	-
Finishing plants, cotton	2261	24.4	24.4	24.1	24.5	-	20.7	20.3	19.9	20.2	-
Finishing plants, synthetics	2262	22.3	22.2	21.1	21.1	-	18.1	18.1	17.0	17.1	-
Floor covering mills	227	58.8	58.1	60.0	59.8	-	47.3	47.2	49.0	48.8	-
Yarn and thread mills	228	112.3	112.2	109.7	109.5	-	100.7	100.4	97.8	97.7	-
Yarn mills, except wool	2281	83.2	82.8	81.6	81.4	-	75.3	75.0	73.6	73.4	-
Throwing and winding mills	2282	15.3	15.3	14.9	15.0	-	13.5	13.2	13.1	13.2	-
Miscellaneous textile goods	229	54.3	54.0	54.8	54.6	-	42.4	42.0	42.9	42.7	-
Apparel and other textile products	23	1,105.9	1,096.6	1,100.5	1,095.2	1,089.0	929.2	920.2	929.8	922.9	917.9
Men's and boys' suits and coats	231	57.8	58.0	58.5	58.9	-	49.7	49.9	50.6	50.6	-
Men's and boys' furnishings	232	313.7	312.3	308.1	307.9	-	270.6	269.2	266.0	265.5	-
Men's and boys' shirts and nightwear	2321	86.2	85.4	83.3	82.7	-	73.6	72.8	70.9	70.3	-
Men's and boys' separate trousers	2327	50.8	50.5	49.7	49.8	-	44.4	44.1	43.3	43.0	-
Men's and boys' work clothing	2328	97.0	97.0	93.0	93.9	-	84.8	84.9	81.0	82.0	-
Women's and misses' outerwear	233	348.5	345.7	345.3	340.3	-	290.4	287.0	289.7	284.3	-
Women's and misses' blouses and waists	2331	45.5	45.2	44.2	43.5	-	37.9	37.1	36.5	35.6	-
Women's and misses' dresses	2335	81.6	80.8	81.6	80.1	-	68.2	67.3	68.0	66.5	-
Women's and misses' suits and coats	2337	38.4	37.6	43.0	40.4	-	31.3	30.3	35.7	33.2	-
Women's and misses' outerwear, nec	2339	183.0	182.1	176.5	176.3	-	153.0	152.3	149.5	149.0	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	71.8	71.3	70.8	69.9	-	59.1	59.0	58.9	58.0	-
Women's and children's underwear	2341	58.6	58.3	57.8	56.8	-	50.1	50.1	49.8	48.9	-
Brassieres and allied garments	2342	13.2	13.0	13.0	13.1	-	9.0	8.9	9.1	9.1	-
Children's outerwear	236	59.7	59.1	55.3	55.6	-	50.0	49.6	46.6	46.8	-
Children's dresses and blouses	2361	25.4	25.4	23.3	23.4	-	22.2	22.1	20.2	20.5	-
Misc. apparel and accessories	238	41.8	40.3	42.9	41.9	-	34.6	33.4	35.7	34.9	-
Misc. fabricated textile products	239	195.2	192.8	200.7	201.6	-	161.1	158.6	167.2	167.7	-
Curtains and draperies	2391	25.8	25.2	24.6	24.5	-	20.9	20.7	20.2	20.2	-
House furnishings, nec	2392	55.2	54.2	57.5	56.8	-	47.4	46.0	48.8	48.0	-
Automotive and apparel trimmings	2396	40.0	39.1	40.9	41.5	-	33.3	32.4	34.7	35.5	-
Paper and allied products	26	684.8	682.0	692.8	692.9	690.1	519.8	516.8	523.6	522.7	521.2
Paper and pulp mills	261,2,6	191.2	190.5	191.3	191.3	-	145.7	145.0	145.1	145.3	-
Paper mills, except building paper	262	167.4	167.0	168.5	168.5	-	126.9	126.6	127.3	127.5	-
Paperboard mills	263	53.7	53.7	53.0	53.3	-	40.7	40.7	40.6	40.9	-
Misc. converted paper products	264	233.4	231.8	237.2	237.2	-	172.1	170.8	173.5	172.7	-
Paper coating and glazing	2641	58.8	56.0	59.3	59.3	-	36.5	36.7	35.3	34.6	-
Envelopes	2642	27.3	27.5	27.4	27.7	-	21.3	21.3	21.2	21.4	-
Bags, except textile bags	2643	53.4	52.9	54.3	55.0	-	42.4	41.7	42.7	43.3	-
Paperboard containers and boxes	265	206.5	206.0	211.3	211.1	-	161.3	160.3	164.4	163.8	-
Folding paperboard boxes	2651	45.8	45.3	46.4	46.4	-	36.3	36.1	37.2	37.1	-
Corrugated and solid fiber boxes	2653	111.7	112.2	113.9	114.1	-	85.0	85.0	85.7	85.8	-
Sanitary food containers	2654	22.5	22.7	23.2	23.0	-	19.4	19.3	19.5	19.2	-
Printing and publishing	27	1,538.9	1,536.5	1,590.8	1,596.0	1,595.2	864.6	861.5	889.9	894.5	888.8
Newspapers	271	479.0	476.0	481.9	482.6	-	176.6	173.3	172.9	173.1	-
Periodicals	272	123.7	125.2	130.6	130.9	-	46.3	47.1	46.9	47.3	-
Books	273	110.7	111.9	113.6	116.6	-	59.2	60.3	59.1	61.8	-
Book publishing	2731	82.2	83.3	84.0	85.3	-	36.6	37.7	35.7	36.9	-
Book printing	2732	28.5	28.6	29.6	31.3	-	22.6	22.6	23.4	24.9	-
Miscellaneous publishing	274	80.4	80.3	83.7	84.3	-	42.4	42.4	42.8	43.4	-
Commercial printing	275	541.5	539.5	565.5	566.9	-	394.3	392.5	413.2	413.1	-
Commercial printing, letterpress	2751	167.2	165.4	174.8	175.7	-	119.2	117.7	126.1	126.7	-
Commercial printing, lithographic	2752	345.5	345.0	360.8	360.9	-	251.9	251.6	263.2	262.5	-
Manifold business forms	276	50.6	50.7	51.9	52.1	-	34.9	35.0	35.6	35.6	-
Blankbooks and bookbinding	278	74.6	75.8	81.5	82.3	-	59.6	60.3	64.0	64.7	-
Printing trade services	279	54.3	54.3	57.5	57.7	-	40.6	40.5	42.7	43.0	-
Chemicals and allied products	28	1,044.3	1,040.3	1,071.8	1,073.8	1,073.9	587.7	583.6	601.2	601.2	602.9
Industrial inorganic chemicals	281	133.2	132.8	132.6	133.0	-	66.8	66.8	66.1	66.1	-
Industrial inorganic chemicals, nec	2819	89.9	89.6	88.7	88.9	-	48.2	48.1	47.4	47.1	-
Plastics materials and synthetics	282	167.7	167.8	171.1	171.6	-	109.8	109.6	112.5	112.5	-
Plastics materials and resins	2821	76.8	76.9	79.4	79.7	-	44.9	44.6	46.8	46.9	-
Organic fibers, noncellulosic	2824	63.2	63.3	64.2	64.5	-	44.3	44.5	45.8	45.9	-
Drugs	283	219.9	220.9	232.3	233.5	-	100.9	101.0	103.7	104.6	-
Pharmaceutical preparations	2834	174.6	175.9	184.2	185.1	-	78.7	79.1	80.3	81.2	-
Soap, cleaners, and toilet goods	284	158.9	156.0	164.9	164.5	-	102.4	99.4	105.4	104.1	-
Soap and other detergents	2841	45.5	44.9	45.3	45.5	-	28.5	27.8	28.2	28.2	-
Polishing, sanitation, and finishing preparations	2842,3	42.0	42.2	44.1	44.6	-	23.9	23.9	25.2	25.4	-
Toilet preparations	2844	71.4	68.9	75.5	74.4	-	50.0	47.7	52.0	50.5	-
Paints and allied products	285	61.4	61.1	61.1	60.9	-	30.0	29.8	30.4	30.2	-
Industrial organic chemicals	286	152.3	152.4	159.0	159.7	-	87.4	87.7	91.9	92.5	-
Cyclic crudes and intermediates	2865	29.1	29.0	30	30.7	-	18.6	18.3	18.7	18.9	-
Gum, wood, and industrial organic chemicals, nec	2861,9	123.2	123.4	129.0	129.0	-	68.8	69.4	73.2	73.6	-
Agricultural chemicals	287	52.4	51.4	51.9	52.1	-	33.5	33.1	32.9	33.0	-
Miscellaneous chemical products	289	98.5	97.9	98.9	98.5	-	56.9	56.2	58.3	58.2	-
Petroleum and coal products	29	164.5	163.2	168.5	166.1	164.3	107.1	105.5	109.5	107.8	105.3
Petroleum refining	291	127.2	127.4	128.6	128.3	-	81.6	81.7	81.9	82.0	-
Paving and roofing materials	295	24.8	23.4	26.9	24.6	-	18.5	16.9	20.4	18.5	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^b	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^b
Nondurable goods—Continued											
Rubber and misc. plastics products	30	851.2	852.4	888.8	889.8	886.2	662.4	662.6	694.3	695.8	693.6
Tires and inner tubes	301	85.7	85.8	87.3	87.5	-	60.9	61.1	65.0	65.6	-
Rubber and plastics footwear	302	12.4	12.5	12.0	11.9	-	10.2	10.3	9.9	10.1	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	23.4	23.5	25.5	25.8	-	17.2	17.2	19.0	19.3	-
Fabricated rubber products, nec	306	106.3	106.9	110.1	110.2	-	81.9	82.1	84.6	84.5	-
Miscellaneous plastics products	307	623.4	623.7	653.9	654.4	-	492.2	491.9	515.8	516.3	-
Leather and leather products	31	146.4	144.9	146.8	145.2	144.1	121.4	120.0	121.4	120.2	119.5
Leather tanning and finishing	311	14.4	14.2	14.5	14.5	-	11.9	11.7	12.0	12.1	-
Footwear, except rubber	314	86.7	86.8	86.0	85.8	-	74.0	74.0	73.2	73.1	-
Men's footwear, except athletic	3143	38.2	38.7	39.2	39.2	-	30.8	31.3	31.6	31.6	-
Women's footwear, except athletic	3144	30.8	30.9	28.6	28.8	-	27.2	27.3	25.3	25.6	-
Luggage	316	11.7	11.0	12.4	12.2	-	8.4	7.9	9.2	9.0	-
Handbags and personal leather goods	317	16.1	15.7	15.5	14.6	-	12.7	12.3	11.9	11.2	-
Transportation and public utilities		5,521	5,437	5,693	5,713	5,650	4,584	4,506	4,734	4,755	4,693
Transportation		3,287	3,210	3,444	3,467	3,406	-	-	-	-	-
Railroad transportation	40	299.4	293.3	300.6	297.5	-	-	-	-	-	-
Class I railroads ^c	4011	259.5	254.6	258.6	255.5	-	-	-	-	-	-
Local and interurban passenger transit	41	312.1	312.3	322.4	321.6	-	288.5	287.6	296.3	294.1	-
Local and suburban transportation	411	111.3	111.8	117.5	117.4	-	101.7	101.8	106.9	105.2	-
Taxicabs	412	34.2	33.8	32.8	32.6	-	-	-	-	-	-
Intercity highway transportation	413	31.0	30.9	32.8	32.6	-	28.0	28.0	29.5	29.3	-
School buses	415	113.5	114.4	114.1	114.5	-	-	-	-	-	-
Trucking and warehousing	42	1,545.9	1,478.7	1,614.0	1,632.2	-	1,350.9	1,284.3	1,408.7	1,428.5	-
Trucking and trucking terminals	421,3	1,431.7	1,367.3	1,486.0	1,507.8	-	1,254.2	1,190.6	1,299.9	1,323.4	-
Public warehousing	422	114.2	111.4	128.0	124.4	-	96.7	93.7	108.8	105.1	-
Water transportation	44	176.5	173.7	181.3	179.7	-	-	-	-	-	-
Local water transportation	445	25.8	24.9	27.6	27.1	-	-	-	-	-	-
Water transportation services	446	96.5	96.5	101.0	99.6	-	-	-	-	-	-
Transportation by air	45	623.1	622.6	664.8	673.2	-	-	-	-	-	-
Air transportation	451,2	546.5	545.7	583.3	590.4	-	-	-	-	-	-
Air transportation services	458	76.6	76.9	81.5	82.8	-	-	-	-	-	-
Pipe lines, except natural gas	46	18.3	17.9	16.2	16.2	-	13.3	12.9	11.4	11.4	-
Transportation services	47	311.4	311.5	344.8	346.6	-	-	-	-	-	-
Freight forwarding	471	65.3	65.6	72.4	73.5	-	-	-	-	-	-
Communication and public utilities		2,234	2,227	2,249	2,246	2,244	-	-	-	-	-
Communication	48	1,307.2	1,300.3	1,313.9	1,312.2	-	987.0	982.6	994.7	995.8	-
Telephone communication	481	912.3	906.5	905.1	901.8	-	671.3	667.3	664.1	664.0	-
Radio and television broadcasting	483	240.5	240.1	246.9	248.5	-	196.4	196.4	204.1	205.4	-
Radio broadcasting	4832	115.5	115.3	118.0	118.8	-	-	-	-	-	-
Television broadcasting	4833	125.0	124.8	128.9	129.7	-	-	-	-	-	-
Electric, gas, and sanitary services	49	927.1	926.2	935.4	933.4	-	732.9	731.7	738.1	735.8	-
Electric services	491	445.7	443.7	444.5	442.6	-	339.2	338.0	338.3	337.1	-
Gas production and distribution	492	165.4	165.2	166.8	166.2	-	130.7	129.9	131.4	130.8	-
Combination utility services	493	203.9	203.2	201.9	201.7	-	167.7	167.2	164.9	164.0	-
Sanitary services	495	85.3	87.4	94.5	95.0	-	74.0	75.5	82.0	82.2	-
Wholesale trade		5,993	5,965	6,292	6,312	6,286	4,810	4,780	5,069	5,081	5,055
Durable goods	50	3,538	3,537	3,762	3,782	3,776	2,811	2,808	3,007	3,023	-
Motor vehicles and automotive equipment	501	439.2	439.9	457.3	458.6	-	352.5	352.1	367.8	369.4	-
Automobiles and other motor vehicles	5012	114.4	114.9	122.2	122.0	-	-	-	-	-	-
Automotive parts and supplies	5013	294.4	294.9	303.5	305.3	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p
Wholesale trade—Continued											
Durable goods—Continued											
Furniture and home furnishings	502	146.8	145.3	149.1	148.8	-	119.9	117.9	120.9	120.5	-
Furniture	5021	64.1	64.4	65.7	65.6	-	-	-	-	-	-
Home furnishings	5023	82.7	80.9	83.4	83.2	-	-	-	-	-	-
Lumber and construction materials	503	248.6	246.7	294.1	295.5	-	204.2	200.9	240.3	241.5	-
Lumber, plywood, and millwork	5031	112.9	113.2	133.0	134.4	-	-	-	-	-	-
Construction materials, nec	5039	135.7	133.5	161.1	161.1	-	-	-	-	-	-
Sporting goods, toys, and hobby goods	504	89.6	66.1	92.5	94.0	-	74.0	70.6	74.6	76.0	-
Metals and minerals, except petroleum	505	139.1	140.3	150.8	152.3	-	109.2	110.6	119.7	120.5	-
Electrical goods	506	508.2	508.6	541.5	545.9	-	386.8	387.2	416.2	420.5	-
Electrical apparatus and equipment	5063	280.6	280.6	302.3	305.2	-	-	-	-	-	-
Electrical appliances, TV and radios	5064	68.9	68.0	71.0	71.8	-	-	-	-	-	-
Electronic parts and equipment	5065	158.7	160.0	168.2	168.9	-	-	-	-	-	-
Hardware, plumbing, and heating equipment	507	267.3	267.0	274.5	275.6	-	216.4	216.0	221.7	222.3	-
Hardware	5072	92.2	92.2	93.5	94.3	-	-	-	-	-	-
Plumbing and hydronic heating supplies	5074	111.0	111.1	114.0	114.8	-	-	-	-	-	-
Machinery, equipment, and supplies	508	1,492.1	1,498.7	1,580.1	1,567.5	-	1,181.3	1,188.2	1,267.0	1,271.6	-
Commercial machines and equipment	5081	563.6	567.1	586.1	588.7	-	-	-	-	-	-
Construction and mining machinery	5082	78.9	79.0	84.0	84.1	-	-	-	-	-	-
Farm machinery and equipment	5083	114.2	113.8	121.9	121.7	-	-	-	-	-	-
Industrial machinery and equipment	5084	308.7	309.0	331.7	332.5	-	-	-	-	-	-
Industrial supplies	5085	132.0	133.2	141.4	142.1	-	-	-	-	-	-
Professional equipment and supplies	5086	181.1	183.4	184.2	196.2	-	-	-	-	-	-
Miscellaneous durable goods	509	207.4	204.3	222.1	223.6	-	167.2	164.4	179.1	180.6	-
Scrap and waste materials	5093	94.2	92.8	103.2	104.3	-	-	-	-	-	-
Nondurable goods	51	2,455	2,428	2,530	2,530	2,510	1,999	1,972	2,062	2,056	-
Paper and paper products	511	207.1	208.0	214.9	216.1	-	167.8	168.1	174.4	174.6	-
Drugs, proprietaries, and sundries	512	173.4	171.9	181.1	182.9	-	144.9	144.0	152.6	154.3	-
Apparel, piece goods, and notions	513	200.6	197.9	207.7	208.6	-	153.3	150.3	161.0	160.2	-
Groceries and related products	514	793.6	783.5	812.4	812.5	-	670.5	660.6	684.7	682.2	-
Groceries, general line	5141	252.8	252.0	261.6	261.8	-	-	-	-	-	-
Meats and meat products	5147	66.0	65.0	66.2	66.4	-	-	-	-	-	-
Fresh fruits and vegetables	5148	97.7	94.8	103.4	104.2	-	-	-	-	-	-
Chemicals and allied products	516	130.6	130.4	134.4	134.7	-	96.7	96.4	98.1	98.1	-
Petroleum and petroleum products	517	201.4	200.1	205.5	206.8	-	156.8	155.8	160.8	161.8	-
Petroleum bulk stations and terminals	5171	85.4	85.2	88.8	89.4	-	-	-	-	-	-
Petroleum products, nec	5172	116.0	114.9	116.7	117.4	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	153.9	151.5	156.2	157.1	-	125.6	123.9	127.9	128.7	-
Beer and ale	5181	94.9	93.5	97.4	97.9	-	-	-	-	-	-
Wines and distilled beverages	5182	59.0	56.0	58.8	59.2	-	-	-	-	-	-
Miscellaneous nondurable goods	519	465.6	458.4	488.5	487.7	-	378.2	370.7	395.9	395.2	-
Farm supplies	5191	146.1	146.9	159.4	156.6	-	-	-	-	-	-
Retail trade	52	19,408	18,639	19,692	20,068	19,267	17,287	16,526	17,455	17,822	17,028
Building materials and garden supplies	52	749.3	720.3	763.0	757.5	-	621.6	592.6	630.9	625.7	-
Lumber and other building materials	521	410.1	400.0	414.9	410.0	-	345.4	334.8	348.6	343.8	-
Hardware stores	525	161.8	157.9	167.3	168.5	-	134.4	130.9	139.0	140.0	-
General merchandise stores	53	2,803.7	2,589.2	2,708.2	2,850.9	2,619.2	2,627.3	2,416.5	2,508.1	2,648.1	-
Department stores	531	2,340.6	2,171.7	2,249.8	2,359.1	-	2,210.7	2,043.8	2,095.4	2,203.0	-
Variety stores	533	266.6	245.8	259.7	271.0	-	244.2	223.4	238.2	249.3	-
Misc. general merchandise stores	539	196.5	171.7	198.7	220.8	-	172.4	149.3	174.5	195.8	-
Food stores	54	3,051.6	2,995.3	3,195.3	3,243.5	3,188.4	2,609.2	2,751.6	2,941.6	2,989.4	-
Grocery stores	541	2,664.6	2,646.3	2,812.3	2,842.0	-	2,463.6	2,442.3	2,605.2	2,632.7	-
Meat markets and freezer provisioners	542	58.9	56.1	60.3	62.6	-	-	-	-	-	-
Dairy products stores	545	33.2	25.1	29.9	32.2	-	-	-	-	-	-
Retail bakeries	546	181.2	175.6	182.8	183.9	-	164.5	159.7	164.0	166.2	-
Automotive dealers and service stations	55	2,021.9	2,014.9	2,099.5	2,095.4	2,084.8	1,690.7	1,663.7	1,751.9	1,746.6	-
New and used car dealers	551.2	986.1	986.0	1,022.2	1,019.2	-	816.2	816.0	846.2	843.2	-
Auto and home supply stores	553	326.9	323.5	335.0	334.2	-	265.3	262.1	270.6	266.9	-
Gasoline service stations	554	614.4	612.9	636.9	637.7	-	534.6	532.8	552.2	554.5	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^P	Jan. 1989 ^P	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^P	Jan. 1989 ^P
Retail trade—Continued											
Apparel and accessory stores	56	1,211.5	1,114.7	1,151.4	1,223.7	-	1,039.5	947.7	978.7	1,046.9	-
Men's and boys' clothing and furnishings	561	118.8	108.5	106.7	114.9	-	99.9	89.4	86.9	94.7	-
Women's ready-to-wear stores	562	412.0	384.1	393.4	417.5	-	353.1	327.0	333.1	356.5	-
Family clothing stores	565	297.9	264.1	279.1	306.7	-	263.3	230.5	245.6	269.8	-
Shoe stores	566	233.4	221.1	229.0	236.2	-	194.7	183.3	191.6	199.0	-
Furniture and home furnishings stores	57	848.7	829.7	839.5	855.2	-	702.9	686.4	688.7	705.0	-
Furniture and home furnishings stores	571	465.7	456.5	470.0	475.8	-	384.2	375.6	384.3	389.8	-
Furniture stores	5712	286.0	283.6	291.4	293.7	-	-	-	-	-	-
Household appliance stores	572	91.1	90.5	84.5	85.4	-	78.5	77.6	70.5	71.2	-
Radio, television, and music stores	573	291.9	282.7	285.0	294.0	-	240.2	233.2	233.9	244.0	-
Radio and television stores	5732	212.2	205.8	203.3	208.7	-	-	-	-	-	-
Music stores	5733	79.7	76.9	81.7	85.3	-	-	-	-	-	-
Eating and drinking places	58	6,174.9	5,968.3	6,381.7	6,390.5	6,168.7	5,620.9	5,417.5	5,803.1	5,812.0	-
Miscellaneous retail	59	2,545.9	2,406.5	2,553.1	2,651.0	-	2,174.4	2,030.1	2,151.7	2,245.8	-
Drug stores and proprietary stores	591	607.4	595.8	597.4	609.5	-	521.9	508.6	507.8	519.0	-
Liquor stores	592	129.6	123.5	127.0	130.3	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	906.8	821.3	887.8	952.6	-	778.5	691.4	750.6	813.2	-
Sporting goods and bicycle shops	5941	155.0	147.2	154.7	161.9	-	-	-	-	-	-
Book stores	5942	82.4	81.4	84.7	88.5	-	-	-	-	-	-
Stationery stores	5943	78.0	76.4	79.2	80.4	-	-	-	-	-	-
Jewelry stores	5944	168.0	155.6	166.4	180.3	-	-	-	-	-	-
Gift, novelty, and souvenir shops	5947	177.8	153.8	174.7	183.9	-	-	-	-	-	-
Sewing, needlework, and piece goods	5949	64.0	61.7	63.7	65.4	-	-	-	-	-	-
Nonstore retailers	596	295.8	277.5	280.1	277.0	-	267.6	248.8	250.4	246.6	-
Mail order houses	5961	145.6	130.5	135.9	133.4	-	-	-	-	-	-
Merchandising machine operators	5962	90.1	90.0	90.7	90.4	-	-	-	-	-	-
Fuel and ice dealers	598	113.0	115.1	121.1	124.0	-	94.3	96.3	101.1	103.9	-
Retail stores, nec	599	406.4	386.6	446.4	463.7	-	334.1	313.4	360.7	378.7	-
Finance, insurance, and real estate³		6,601	6,579	6,700	6,722	6,681	4,812	4,779	4,841	4,855	4,826
Finance		3,296	3,300	3,304	3,319	3,311	-	-	-	-	-
Banking	60	1,731.0	1,732.6	1,735.9	1,745.0	-	1,243.2	1,242.4	1,237.6	1,245.3	-
Commercial and stock savings banks	602	1,560.3	1,560.8	1,557.4	1,565.0	-	1,117.1	1,115.8	1,106.6	1,112.7	-
State banks, Federal Reserve	6022	344.6	345.9	345.0	346.2	-	-	-	-	-	-
State banks, not Federal Reserve	6023,4	372.2	372.7	375.0	377.5	-	-	-	-	-	-
Mutual savings banks	603	84.5	84.8	85.8	86.2	-	-	-	-	-	-
Credit agencies other than banks	61	890.0	892.4	895.8	899.1	-	663.1	662.6	666.8	669.3	-
Savings and loan associations	612	399.4	399.2	392.2	393.0	-	303.4	302.3	296.7	297.1	-
Federal savings and loan associations	6122	221.4	221.4	221.7	222.4	-	-	-	-	-	-
State associations, insured	6123	173.2	172.9	165.9	166.0	-	-	-	-	-	-
Personal credit institutions	614	241.3	241.8	251.7	253.1	-	186.5	186.6	195.1	196.4	-
Business credit institutions	615	58.2	59.6	71.1	72.6	-	-	-	-	-	-
Mortgage bankers and brokers	616	167.3	169.2	159.2	158.8	-	-	-	-	-	-
Security, commodity brokers, and services	62	464.7	464.8	452.1	453.0	-	-	-	-	-	-
Security brokers and dealers	621	362.2	361.5	346.3	346.3	-	-	-	-	-	-
Holding and other investment offices	67	210.4	209.8	219.8	221.5	-	-	-	-	-	-
Insurance		2,047	2,049	2,090	2,097	2,096	-	-	-	-	-
Insurance carriers	63	1,435.1	1,437.3	1,459.1	1,463.8	-	961.5	962.8	971.5	975.6	-
Life insurance	631	590.2	591.3	593.5	594.8	-	357.1	357.7	354.6	356.8	-
Medical service and health insurance	632	199.9	200.7	207.7	209.6	-	161.5	162.0	168.0	169.4	-
Fire, marine, and casualty insurance	633	541.7	543.2	553.0	554.6	-	364.5	366.0	369.4	369.3	-
Title insurance	636	56.0	55.4	56.7	56.4	-	-	-	-	-	-
Insurance agents, brokers, and service	64	612.1	611.5	630.8	632.8	-	-	-	-	-	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p
Finance, insurance, and real estate—Continued											
Real estate, and combined real estate, insurance, etc		1,258	1,230	1,306	1,306	1,274	-	-	-	-	-
Real estate	65	1,247.8	1,220.0	1,296.0	1,296.3	-	-	-	-	-	
Real estate operators and lessors	651	536.1	517.2	548.0	552.6	-	-	-	-	-	
Real estate agents and managers	653	533.7	531.1	557.6	557.3	-	-	-	-	-	
Subdividers and developers	655	145.3	139.6	157.3	153.2	-	-	-	-	-	
Combined real estate, insurance, etc	66	10.0	10.1	9.6	9.6	-	-	-	-	-	
Services		24,622	24,378	25,921	25,961	25,695	21,558	21,289	22,634	22,654	22,369
Hotels and other lodging places	70	1,465.5	1,451.8	1,580.8	1,564.3	-	-	-	-	-	
Hotels, motels, and tourist courts	701	1,429.1	1,415.5	1,538.1	1,523.7	-	1,270.0	1,258.1	1,369.5	1,354.0	
Personal services	72	1,179.0	1,208.2	1,202.5	1,208.0	-	-	-	-	-	
Laundry, cleaning, and garment services	721	413.9	408.0	418.3	418.9	-	368.4	363.2	371.4	371.8	
Photographic studios, portrait	722	61.0	54.8	59.2	58.7	-	-	-	-	-	
Beauty shops	723	356.7	355.5	359.7	360.8	-	320.5	319.3	320.5	322.0	
Funeral service and crematories	726	77.2	77.1	78.2	78.9	-	-	-	-	-	
Business services	73	5,326.6	5,239.4	5,602.2	5,629.1	5,511.2	4,564.7	4,473.1	4,781.7	4,799.3	
Advertising	731	215.8	214.1	217.2	218.9	-	161.2	159.4	161.1	162.5	
Advertising agencies	7311	159.0	157.6	160.4	161.0	-	-	-	-	-	
Credit reporting and collection	732	97.3	95.8	95.8	95.8	-	-	-	-	-	
Mailing, reproduction, and stenographic	733	227.9	226.2	255.8	256.8	-	-	-	-	-	
Services to buildings	734	706.2	701.5	725.6	720.4	-	638.4	634.1	655.9	651.1	
Personnel supply services	736	1,262.3	1,192.9	1,324.8	1,341.0	-	-	-	-	-	
Employment agencies	7361	186.5	182.3	195.7	196.6	-	-	-	-	-	
Temporary help supply services	7362	993.1	929.2	1,043.1	1,058.8	-	-	-	-	-	
Computer and data processing services	737	681.2	692.6	757.2	766.7	-	534.1	543.4	589.1	596.0	
Computer programming and software	7372	258.7	264.1	294.3	298.2	-	-	-	-	-	
Data processing services	7374	310.9	314.2	337.6	342.5	-	-	-	-	-	
Miscellaneous business services	739	2,126.6	2,107.0	2,215.2	2,218.8	-	-	-	-	-	
Research development laboratories, nec	7391	196.4	195.9	200.4	200.8	-	-	-	-	-	
Management and public relations	7392	598.5	595.0	620.9	625.2	-	-	-	-	-	
Detective and protective services	7393	460.1	453.9	479.9	480.8	-	-	-	-	-	
Equipment rental and leasing	7394	246.7	245.7	261.6	260.8	-	-	-	-	-	
Photofinishing laboratories	7395	83.5	78.9	85.8	83.9	-	-	-	-	-	
Auto repair, services, and garages	75	804.8	798.2	839.7	836.5	-	669.1	659.5	692.7	689.9	
Automotive rentals, without drivers	751	164.5	156.3	168.9	169.3	-	-	-	-	-	
Automotive repair shops	753	479.7	480.6	508.7	506.4	-	395.8	393.6	418.6	416.9	
Miscellaneous repair services	76	326.9	324.8	346.5	348.8	-	270.8	268.4	282.9	284.4	
Electrical repair shops	762	105.4	105.3	117.6	119.9	-	-	-	-	-	
Motion pictures	78	231.4	231.2	232.8	238.7	-	195.6	194.8	194.8	200.1	
Motion picture production and services	781	116.1	115.2	121.5	123.5	-	94.6	93.4	97.0	98.8	
Motion picture theaters	783	100.9	101.0	95.8	99.3	-	-	-	-	-	
Amusement and recreation services	79	815.8	782.5	859.8	875.8	-	709.4	674.2	737.5	752.0	
Health services	80	6,982.7	7,002.6	7,406.7	7,450.9	7,484.6	6,209.9	6,220.2	6,580.9	6,621.3	
Offices of physicians	801	1,088.4	1,093.4	1,173.7	1,184.9	-	895.8	895.6	962.7	971.9	
Offices of dentists	802	477.9	479.1	501.3	503.9	-	421.2	421.2	438.6	442.3	
Nursing and personal care facilities	805	1,301.1	1,302.2	1,346.9	1,350.4	-	1,174.8	1,174.6	1,216.1	1,219.4	
Skilled nursing care facilities	8051	872.0	873.2	902.4	903.5	-	-	-	-	-	
Nursing and personal care, nec	8059	429.1	429.0	444.5	446.9	-	-	-	-	-	
Hospitals	806	3,224.6	3,238.7	3,405.9	3,418.8	-	2,943.6	2,956.2	3,113.6	3,124.9	
General medical and surgical hospitals	8062	3,006.5	3,019.2	3,172.4	3,184.5	-	-	-	-	-	
Psychiatric hospitals	8063	77.5	78.1	83.6	83.7	-	-	-	-	-	
Specialty hospitals, excluding psychiatric	8069	140.6	141.4	149.9	150.6	-	-	-	-	-	
Medical and dental laboratories	807	140.1	141.0	156.3	158.9	-	-	-	-	-	
Outpatient care facilities	808	270.1	270.2	307.8	312.5	-	-	-	-	-	

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ²	Jan. 1989 ³	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ²	Jan. 1989 ³
Services—Continued											
Legal services	81	806.3	802.1	842.5	846.1	-	675.3	671.2	701.5	703.9	-
Educational services	82	1,536.3	1,445.5	1,633.6	1,604.1	-	-	-	-	-	-
Elementary and secondary schools	821	381.2	380.1	389.5	388.9	-	-	-	-	-	-
Colleges and universities	822	987.2	899.7	1,081.7	1,032.4	-	-	-	-	-	-
Correspondence and vocational schools	824	80.2	78.8	61.8	82.1	-	-	-	-	-	-
Social services	83	1,540.5	1,538.3	1,634.6	1,642.6	-	-	-	-	-	-
Individual and family services	832	303.6	299.0	312.4	313.9	-	-	-	-	-	-
Job training and related services	833	223.5	222.4	216.1	215.9	-	-	-	-	-	-
Residential care	836	360.4	360.5	384.4	386.3	-	-	-	-	-	-
Museums, botanical and zoological gardens	84	49.3	46.9	48.9	48.9	-	-	-	-	-	-
Membership organizations	86	1,566.7	1,562.9	1,608.0	1,614.2	-	-	-	-	-	-
Business associations	861	91.2	91.4	93.2	93.5	-	-	-	-	-	-
Labor organizations	863	135.3	129.2	136.1	140.5	-	-	-	-	-	-
Civic and social associations	864	369.5	353.1	383.1	384.9	-	-	-	-	-	-
Miscellaneous services	89	1,342.9	1,356.0	1,418.9	1,424.7	-	1,087.7	1,098.8	1,135.8	1,139.2	-
Engineering and architectural services	891	732.2	728.8	777.5	779.3	-	616.6	610.4	644.6	645.2	-
Noncommercial research organizations	892	123.6	121.3	128.7	129.0	-	-	-	-	-	-
Accounting, auditing, and bookkeeping	893	480.3	478.7	482.7	485.8	-	353.1	369.7	366.8	369.2	-
Government		17,491	17,209	17,927	17,842	17,521	-	-	-	-	-
Federal Government⁴		2,972	2,953	2,971	2,990	2,982	-	-	-	-	-
Executive, by agency ⁴		2,914.3	2,894.6	2,912.3	-	-	-	-	-	-	-
Department of Defense		991.5	980.7	955.0	-	-	-	-	-	-	-
Postal Service ⁵		832.9	822.6	835.6	-	-	-	-	-	-	-
Other executive agencies		1,089.9	1,091.3	1,121.7	-	-	-	-	-	-	-
Legislative		37.6	37.6	37.4	-	-	-	-	-	-	-
Judicial		20.2	20.3	21.0	-	-	-	-	-	-	-
Federal government, by industry:											
Manufacturing activities		125.4	124.5	121.5	121.7	-	-	-	-	-	-
Shipbuilding and repairing	3731	76.3	75.4	74.3	74.2	-	-	-	-	-	-
Transportation and public utilities, except Postal Service		43.1	42.8	38.8	37.7	-	-	-	-	-	-
Services		428.6	424.9	436.3	434.1	-	-	-	-	-	-
Hospitals	806	250.6	250.5	247.6	247.2	-	-	-	-	-	-
State government		4,084	3,975	4,192	4,156	4,028	-	-	-	-	-
Hospitals	806	439.9	440.1	446.9	446.4	-	-	-	-	-	-
Education	82	1,710.7	1,593.0	1,767.9	1,729.2	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions		1,396.7	1,405.2	1,434.2	1,438.3	-	-	-	-	-	-
Local government		10,435	10,281	10,764	10,696	10,511	-	-	-	-	-
Transportation and public utilities		492.3	492.4	496.2	495.9	-	-	-	-	-	-
Hospitals	806	620.5	621.4	643.2	644.4	-	-	-	-	-	-
Education	82	5,958.0	5,826.9	6,109.9	6,104.6	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions		3,035.4	3,017.0	3,183.0	3,101.1	-	-	-	-	-	-

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	Oct. 1987	Nov. 1987	Sept. 1988	Oct. 1988	Nov. 1988
Total	48,341	48,686	49,586	50,165	50,634
Total private	39,391	39,631	40,778	40,980	41,293
Goods-producing	7,027	7,037	7,195	7,210	7,224
Mining	96	96	98	98	98
Construction	545	546	588	590	590
Manufacturing	6,386	6,395	6,509	6,522	6,536
Durable goods	3,055	3,064	3,119	3,132	3,145
Lumber and wood products	121	120	125	124	124
Furniture and fixtures	167	168	168	169	170
Stone, clay, and glass products	116	116	119	119	119
Primary metal industries	104	105	108	108	109
Fabricated metal products	324	325	333	334	336
Machinery, except electrical	457	459	480	484	487
Electrical and electronic equipment	882	884	894	898	900
Transportation equipment	399	401	397	399	400
Instruments and related products	305	307	314	315	316
Miscellaneous manufacturing	181	181	182	183	183
Nondurable goods	3,331	3,331	3,390	3,390	3,391
Food and kindred products	542	530	562	553	543
Tobacco manufactures	19	18	19	19	19
Textile mill products	356	356	350	350	350
Apparel and other textile products	892	892	873	876	879
Paper and allied products	166	167	170	171	171
Printing and publishing	654	661	681	686	693
Chemicals and allied products	299	301	315	315	314
Petroleum and coal products	24	24	26	26	26
Rubber and misc. plastics products	293	294	305	308	309
Leather and leather products	88	88	88	87	87
Service-producing	41,314	41,649	42,391	42,955	43,410
Transportation and public utilities	1,582	1,581	1,640	1,649	1,653
Wholesale trade	1,778	1,788	1,870	1,891	1,902
Retail trade	9,993	10,208	10,273	10,304	10,522
Finance, insurance, and real estate	4,107	4,113	4,176	4,180	4,196
Services	14,904	14,904	15,624	15,746	15,796
Government	8,951	9,054	8,808	9,185	9,341
Federal	1,049	1,053	1,061	1,061	1,061
State	1,983	1,997	1,963	2,050	2,066
Local	5,919	6,004	5,784	6,074	6,214

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	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^P	Jan. ^P
Total	104,262	104,729	105,020	105,281	105,489	106,057	106,271	106,425	106,737	106,973	107,419	107,640	108,048
Total private	87,044	87,475	87,700	87,973	88,139	88,678	88,941	89,066	89,205	89,481	89,855	90,094	90,520
Goods-producing	25,180	25,271	25,330	25,435	25,466	25,592	25,663	25,639	25,648	25,743	25,849	25,892	26,040
Mining	728	731	733	737	739	740	740	739	734	729	722	719	719
Oil and gas extraction	414	415	419	421	425	425	424	423	419	413	406	402	402
Construction	5,083	5,150	5,192	5,238	5,237	5,308	5,330	5,340	5,365	5,366	5,413	5,436	5,538
General building contractors	1,365	1,377	1,383	1,400	1,394	1,412	1,400	1,401	1,404	1,393	1,406	1,414	1,446
Manufacturing	19,369	19,390	19,405	19,460	19,490	19,544	19,593	19,560	19,549	19,648	19,714	19,737	19,783
Durable goods	11,393	11,404	11,411	11,459	11,477	11,515	11,586	11,547	11,537	11,595	11,637	11,650	11,672
Lumber and wood products	754	756	755	758	757	757	756	753	753	760	767	772	774
Furniture and fixtures	536	535	534	535	537	537	541	537	538	540	541	540	540
Stone, clay, and glass products	583	584	585	587	585	587	589	586	585	588	590	593	593
Primary metal industries	768	770	772	773	776	781	789	785	787	794	796	794	794
Blast furnaces and basic steel products	279	280	281	281	281	281	282	281	280	282	282	279	280
Fabricated metal products	1,435	1,438	1,439	1,444	1,448	1,457	1,464	1,458	1,460	1,469	1,474	1,477	1,483
Machinery, except electrical	2,085	2,091	2,099	2,111	2,121	2,134	2,151	2,156	2,159	2,173	2,185	2,188	2,195
Electrical and electronic equipment	2,112	2,112	2,115	2,117	2,115	2,120	2,122	2,126	2,124	2,126	2,130	2,126	2,123
Transportation equipment	2,036	2,031	2,025	2,045	2,048	2,047	2,052	2,044	2,032	2,045	2,050	2,050	2,060
Motor vehicles and equipment	839	837	835	848	851	850	857	855	849	859	860	857	867
Instruments and related products	704	705	705	706	709	713	715	718	716	719	721	725	726
Miscellaneous manufacturing	360	362	362	363	361	362	367	364	363	361	363	365	364
Nondurable goods	7,976	7,986	7,994	8,001	8,013	8,029	8,027	8,013	8,012	8,053	8,077	8,087	8,111
Food and kindred products	1,647	1,649	1,647	1,648	1,643	1,645	1,631	1,630	1,632	1,654	1,661	1,654	1,666
Tobacco manufactures	55	54	54	54	52	53	52	52	51	52	53	52	51
Textile mill products	732	732	729	727	728	727	726	719	722	722	723	724	726
Apparel and other textile products	1,105	1,104	1,106	1,100	1,100	1,097	1,096	1,089	1,087	1,086	1,093	1,095	1,097
Paper and allied products	685	686	687	687	689	691	692	691	688	691	691	692	694
Printing and publishing	1,538	1,544	1,548	1,554	1,559	1,565	1,567	1,572	1,575	1,581	1,583	1,592	1,597
Chemicals and allied products	1,047	1,049	1,052	1,056	1,060	1,065	1,067	1,070	1,069	1,071	1,073	1,076	1,080
Petroleum and coal products	166	165	164	165	166	167	167	167	168	169	169	168	167
Rubber and misc. plastics products	854	856	860	864	870	873	882	878	874	882	887	889	887
Leather and leather products	147	147	147	146	146	146	147	145	146	145	144	145	146
Service-producing	79,082	79,458	79,690	79,846	80,023	80,465	80,608	80,786	81,089	81,230	81,570	81,748	82,008
Transportation and public utilities	5,499	5,513	5,530	5,543	5,556	5,582	5,598	5,605	5,618	5,631	5,658	5,667	5,713
Transportation	3,261	3,272	3,285	3,298	3,308	3,332	3,345	3,351	3,366	3,380	3,407	3,419	3,458
Communication and public utilities	2,238	2,241	2,245	2,245	2,248	2,250	2,253	2,254	2,252	2,251	2,251	2,248	2,255
Wholesale trade	6,010	6,035	6,061	6,089	6,115	6,148	6,174	6,192	6,219	6,246	6,275	6,300	6,333
Durable goods	3,555	3,573	3,591	3,610	3,635	3,660	3,681	3,696	3,714	3,736	3,758	3,778	3,795
Nondurable goods	2,455	2,462	2,470	2,479	2,480	2,488	2,493	2,496	2,505	2,510	2,517	2,522	2,538
Retail trade	18,927	19,045	19,050	19,093	19,130	19,205	19,261	19,279	19,291	19,327	19,401	19,427	19,560
General merchandise stores	2,526	2,561	2,543	2,546	2,541	2,549	2,545	2,539	2,533	2,520	2,533	2,539	2,555
Food stores	3,014	3,029	3,044	3,049	3,053	3,080	3,097	3,106	3,110	3,143	3,157	3,177	3,208
Automotive dealers and service stations	2,038	2,047	2,055	2,064	2,070	2,076	2,088	2,095	2,095	2,103	2,106	2,106	2,108
Eating and drinking places	6,260	6,291	6,319	6,326	6,336	6,352	6,369	6,377	6,384	6,415	6,440	6,449	6,466
Finance, insurance, and real estate	6,633	6,636	6,651	6,650	6,656	6,679	6,684	6,689	6,692	6,708	6,725	6,743	6,735
Finance	3,308	3,305	3,306	3,302	3,299	3,304	3,300	3,298	3,300	3,308	3,314	3,326	3,318
Insurance	2,052	2,053	2,060	2,065	2,067	2,074	2,077	2,081	2,083	2,089	2,092	2,099	2,098
Real estate	1,273	1,278	1,285	1,283	1,290	1,301	1,307	1,310	1,309	1,311	1,319	1,318	1,319
Services	24,795	24,975	25,078	25,163	25,216	25,472	25,561	25,662	25,737	25,826	25,947	26,065	26,139
Business services	5,321	5,385	5,405	5,420	5,443	5,480	5,500	5,512	5,538	5,553	5,563	5,607	5,595
Health services	7,019	7,056	7,088	7,126	7,153	7,203	7,238	7,271	7,323	7,365	7,414	7,466	7,500
Government	17,218	17,254	17,320	17,308	17,350	17,379	17,330	17,359	17,532	17,492	17,564	17,546	17,528
Federal	2,973	2,972	2,970	2,963	2,957	2,951	2,951	2,956	2,989	2,989	2,989	2,999	3,003
State	4,006	4,014	4,031	4,041	4,050	4,049	4,059	4,070	4,086	4,070	4,074	4,071	4,056
Local	10,239	10,268	10,319	10,304	10,343	10,379	10,320	10,333	10,457	10,433	10,501	10,476	10,469

^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										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Total	48,072	48,240	48,396	48,615	48,772	48,865	48,999	49,306	49,371	49,491	49,658	49,739	49,994
Total private	39,295	39,425	39,573	39,767	39,881	39,969	40,075	40,357	40,459	40,549	40,646	40,743	40,941
Goods-producing	6,990	7,007	7,022	7,028	7,040	7,058	7,082	7,103	7,125	7,112	7,116	7,142	7,173
Mining	96	96	96	96	96	97	97	99	97	100	98	98	98
Construction	542	543	546	549	552	558	566	569	574	578	581	582	585
Manufacturing	6,352	6,368	6,380	6,383	6,392	6,403	6,419	6,435	6,454	6,434	6,437	6,462	6,490
Durable goods	3,045	3,056	3,059	3,062	3,067	3,077	3,085	3,096	3,112	3,107	3,106	3,114	3,124
Lumber and wood products	120	121	122	122	122	123	123	123	123	123	123	123	125
Furniture and fixtures	166	166	167	166	166	166	167	166	168	166	168	168	168
Stone, clay, and glass products	115	116	116	116	116	117	118	117	119	118	117	117	118
Primary metal industries	104	105	104	105	104	105	106	108	107	107	108	108	109
Fabricated metal products	323	324	325	325	326	327	329	331	333	332	331	332	334
Machinery, except electrical	460	463	466	467	469	471	473	476	480	482	483	485	488
Electrical and electronic equipment	878	881	882	882	885	886	885	890	891	891	890	893	893
Transportation equipment	398	399	396	393	393	396	397	397	398	396	396	394	397
Instruments and related products	306	306	306	308	308	308	309	311	313	314	314	315	315
Miscellaneous manufacturing	175	175	175	178	178	178	178	177	180	178	178	176	177
Nondurable goods	3,307	3,312	3,321	3,321	3,325	3,326	3,334	3,339	3,342	3,327	3,331	3,348	3,366
Food and kindred products	521	521	528	528	526	528	526	526	521	514	519	528	534
Tobacco manufactures	17	18	18	18	17	17	17	17	18	18	17	17	18
Textile mill products	354	354	353	353	352	350	351	351	351	347	347	347	348
Apparel and other textile products	886	883	881	879	880	875	877	874	874	868	867	867	873
Paper and allied products	166	167	167	167	167	167	167	168	169	169	169	169	170
Printing and publishing	658	660	664	666	669	672	673	677	679	683	683	687	689
Chemicals and allied products	301	303	303	304	305	307	309	311	311	313	313	315	315
Petroleum and coal products	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Rubber and misc. plastics products	293	296	296	296	298	300	303	304	307	304	304	305	308
Leather and leather products	87	86	87	86	87	86	86	86	87	85	86	86	85
Service-producing	41,082	41,233	41,374	41,587	41,732	41,807	41,917	42,203	42,246	42,379	42,542	42,597	42,821
Transportation and public utilities	1,572	1,576	1,580	1,588	1,599	1,602	1,610	1,625	1,625	1,632	1,630	1,634	1,643
Wholesale trade	1,774	1,785	1,795	1,802	1,813	1,813	1,826	1,838	1,848	1,854	1,864	1,874	1,887
Retail trade	9,955	9,972	10,056	10,127	10,123	10,130	10,161	10,192	10,198	10,218	10,232	10,232	10,265
Finance, insurance, and real estate	4,126	4,131	4,139	4,139	4,147	4,141	4,147	4,164	4,167	4,173	4,180	4,193	4,209
Services	14,878	14,954	14,981	15,083	15,159	15,225	15,249	15,435	15,496	15,560	15,624	15,668	15,764
Government	8,777	8,815	8,823	8,848	8,891	8,896	8,924	8,949	8,912	8,942	9,012	8,996	9,053
Federal	1,060	1,062	1,060	1,061	1,061	1,057	1,054	1,050	1,050	1,057	1,067	1,070	1,068
State	1,937	1,945	1,947	1,952	1,960	1,968	1,971	1,978	1,987	1,990	2,007	2,000	2,004
Local	5,780	5,808	5,816	5,835	5,870	5,871	5,899	5,921	5,875	5,895	5,938	5,926	5,981

¹ 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	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^P	Jan. ^P
Total private	70,405	70,787	70,961	71,170	71,260	71,736	71,948	72,063	72,109	72,328	72,627	72,820	73,206
Goods-producing	17,698	17,798	17,839	17,909	17,925	18,025	18,085	18,058	18,049	18,124	18,210	18,240	18,368
Mining	524	527	529	533	535	535	535	536	530	527	519	518	519
Construction	3,949	4,022	4,059	4,096	4,088	4,149	4,168	4,170	4,187	4,185	4,226	4,248	4,325
Manufacturing	13,225	13,249	13,251	13,280	13,302	13,341	13,382	13,352	13,332	13,412	13,465	13,474	13,524
Durable goods	7,582	7,599	7,598	7,632	7,649	7,676	7,720	7,705	7,689	7,733	7,765	7,776	7,798
Lumber and wood products	629	631	631	633	632	634	630	628	626	632	638	642	646
Furniture and fixtures	428	427	426	427	429	429	432	428	430	432	433	432	432
Stone, clay, and glass products	453	454	455	457	455	457	460	457	455	457	459	461	461
Primary metal industries	583	586	588	591	594	599	605	601	603	609	610	609	608
Blast furnaces and basic steel products	214	216	217	219	218	219	220	218	216	218	218	216	217
Fabricated metal products	1,068	1,071	1,071	1,073	1,079	1,085	1,091	1,087	1,088	1,096	1,100	1,102	1,110
Machinery, except electrical	1,244	1,250	1,256	1,262	1,269	1,273	1,287	1,289	1,289	1,299	1,310	1,316	1,316
Electrical and electronic equipment	1,240	1,241	1,242	1,244	1,244	1,250	1,254	1,256	1,254	1,257	1,261	1,257	1,258
Transportation equipment	1,273	1,271	1,261	1,276	1,278	1,276	1,284	1,284	1,269	1,276	1,277	1,276	1,283
Motor vehicles and equipment	651	649	648	658	660	660	671	674	664	672	671	669	675
Instruments and related products	387	388	388	389	391	394	395	396	396	399	400	402	403
Miscellaneous manufacturing	277	280	280	280	278	279	282	279	279	276	277	279	281
Nondurable goods	5,643	5,650	5,653	5,648	5,653	5,665	5,662	5,647	5,643	5,679	5,700	5,698	5,726
Food and kindred products	1,169	1,172	1,168	1,169	1,164	1,168	1,153	1,151	1,153	1,174	1,181	1,172	1,185
Tobacco manufactures	42	41	41	40	39	40	39	38	37	38	40	38	38
Textile mill products	636	636	634	632	632	630	632	622	626	626	626	627	629
Apparel and other textile products	929	928	930	926	925	923	922	916	915	916	922	924	927
Paper and allied products	520	521	521	520	521	523	524	524	520	521	522	522	524
Printing and publishing	863	867	870	871	872	875	876	879	880	883	885	888	891
Chemicals and allied products	589	589	592	593	596	599	600	603	601	603	603	603	608
Petroleum and coal products	109	108	107	107	108	108	108	109	109	110	110	110	108
Rubber and misc. plastics products	664	666	669	670	676	679	687	685	682	688	692	694	695
Leather and leather products	122	122	121	120	120	120	121	120	120	120	119	120	121
Service-producing	52,707	52,989	53,122	53,261	53,335	53,711	53,863	54,005	54,060	54,204	54,417	54,580	54,838
Transportation and public utilities	4,560	4,574	4,587	4,600	4,611	4,632	4,648	4,661	4,656	4,672	4,701	4,713	4,750
Wholesale trade	4,825	4,848	4,881	4,902	4,924	4,956	4,975	4,990	5,011	5,030	5,054	5,071	5,101
Retail trade	16,795	16,902	16,897	16,949	16,949	17,028	17,070	17,087	17,078	17,109	17,163	17,186	17,305
Finance, insurance, and real estate	4,831	4,827	4,825	4,823	4,828	4,842	4,844	4,851	4,847	4,855	4,865	4,865	4,880
Services	21,696	21,838	21,932	21,987	22,023	22,253	22,326	22,416	22,468	22,538	22,634	22,745	22,802

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
DIFFUSION INDEXES
SEASONALLY ADJUSTED**

Table B-7. Diffusion indexes of employment change, seasonally adjusted

(Percent)

Year	Private nonagricultural payrolls, 349 industries ¹											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span												
1977	63.5	60.5	70.3	67.9	68.6	63.8	64.5	61.3	65.9	61.3	67.0	67.9
1978	62.5	64.3	70.2	70.1	64.6	67.6	61.6	62.2	62.0	64.3	70.9	66.6
1979	63.9	61.0	64.8	52.7	61.6	61.3	55.7	53.2	50.7	61.3	54.2	53.9
1980	54.6	53.4	49.7	37.4	40.6	36.0	42.3	59.0	55.7	63.8	59.3	56.6
1981	58.5	52.7	54.0	64.5	57.0	53.3	57.7	51.3	45.6	42.3	40.3	36.0
1982	37.2	47.3	40.1	41.5	49.3	38.1	42.6	39.1	44.7	36.2	40.1	43.6
1983	55.0	47.9	60.2	65.6	66.3	66.5	67.2	68.9	70.1	66.6	67.6	64.6
1984	67.9	71.1	65.0	66.1	62.6	68.9	60.2	60.5	57.7	63.6	59.2	57.4
1985	58.9	52.9	60.3	52.7	59.2	51.4	57.4	60.6	53.0	56.7	57.9	57.7
1986	56.4	51.9	53.3	55.7	54.9	51.4	55.3	56.7	55.3	54.0	59.3	60.2
1987	57.4	56.3	59.9	64.6	61.3	61.6	68.6	60.6	62.3	67.6	63.9	65.0
1988	60.3	64.6	64.0	63.0	58.9	66.8	62.3	56.2	54.0	62.5	66.9	^P 61.2
1989	^P 62.5											
Over 3-month span												
1977	70.2	74.5	76.4	79.2	74.8	72.1	69.3	72.1	70.5	73.5	73.6	72.5
1978	71.9	73.8	78.9	76.9	74.9	71.1	69.2	65.6	66.3	73.5	74.6	76.2
1979	69.5	71.8	65.8	66.2	62.0	64.0	58.9	53.3	57.6	58.8	62.2	56.2
1980	56.6	51.4	42.0	38.3	35.5	37.4	42.8	50.9	65.3	66.9	66.5	64.3
1981	59.5	55.6	58.9	64.6	63.3	60.7	57.0	52.4	43.3	40.0	34.0	30.9
1982	31.2	34.8	37.7	41.5	40.3	40.3	34.8	36.3	35.4	35.8	34.0	46.8
1983	48.4	57.0	62.6	71.9	72.1	74.4	72.6	77.2	77.2	74.6	71.8	73.9
1984	74.9	75.2	77.7	72.6	73.8	69.2	66.3	64.9	64.0	63.0	61.3	61.2
1985	58.2	58.9	55.7	58.2	54.9	57.7	57.0	58.7	58.3	58.7	59.7	59.3
1986	58.9	53.2	52.7	55.7	54.7	53.4	55.4	58.2	56.7	60.3	61.3	63.6
1987	61.3	62.2	67.3	68.9	69.3	69.8	71.5	72.5	72.1	73.4	74.5	68.2
1988	70.6	66.8	66.3	67.2	69.1	69.6	66.8	61.9	62.6	66.3	^P 71.6	^P 73.4
1989												
Over 6-month span												
1977	79.1	61.6	78.7	78.4	78.1	79.7	76.2	76.2	77.5	78.6	78.1	78.4
1978	77.8	61.4	81.2	79.8	78.7	76.2	73.6	76.9	75.6	76.6	76.1	77.8
1979	74.6	73.9	71.2	66.8	63.2	57.9	62.9	59.5	57.7	58.8	60.9	57.7
1980	48.8	44.7	41.1	37.4	37.1	37.5	44.4	51.9	61.2	70.9	66.9	66.2
1981	66.5	65.2	62.9	64.9	61.3	58.0	50.3	43.0	39.0	32.2	32.5	28.7
1982	26.5	29.7	33.0	38.8	37.2	36.8	34.5	33.8	34.8	36.1	39.1	43.1
1983	55.2	62.2	67.3	71.1	76.4	78.2	79.4	79.5	78.2	77.4	78.1	77.5
1984	78.7	78.8	80.1	77.5	73.9	72.9	70.1	66.6	64.5	63.5	61.7	63.0
1985	58.3	59.5	57.9	57.3	58.5	57.2	58.9	56.6	60.0	60.3	57.9	55.4
1986	55.6	55.9	52.9	53.6	54.3	55.9	55.0	57.7	62.5	61.2	62.5	62.9
1987	69.2	68.3	66.3	70.1	72.5	75.2	78.9	77.4	78.5	74.2	74.4	75.6
1988	72.2	71.5	70.8	74.2	72.2	69.1	66.8	74.5	^P 70.9	^P 72.6		
1989												
Over 12-month span												
1977	79.2	80.1	61.6	61.9	64.8	64.7	64.5	63.4	63.7	63.0	62.5	62.1
1978	61.9	62.2	61.8	61.9	63.0	62.8	63.4	61.4	61.7	75.6	76.1	75.5
1979	75.9	75.4	74.6	72.1	68.2	66.0	68.0	63.6	59.7	57.6	52.0	48.7
1980	47.0	46.4	46.6	45.3	43.7	43.6	43.6	42.8	44.3	50.6	57.2	62.2
1981	71.2	88.3	68.1	61.3	53.4	48.0	42.3	36.6	36.4	33.1	34.1	32.2
1982	32.4	31.1	29.7	30.4	30.4	31.4	35.0	35.1	36.8	43.4	46.7	51.4
1983	57.0	61.9	66.5	72.8	75.8	77.2	76.6	80.7	60.4	61.4	63.0	61.9
1984	61.7	79.5	78.7	77.1	78.2	74.1	73.1	70.2	69.1	65.2	63.8	61.5
1985	59.5	59.2	59.2	56.9	56.6	58.5	55.9	55.9	56.7	55.8	55.2	53.7
1986	54.4	54.6	53.9	55.6	55.2	56.3	57.2	59.3	60.0	61.7	61.9	65.2
1987	68.1	70.3	71.1	74.1	76.6	77.2	77.4	77.8	79.1	76.7	77.6	60.5
1988	77.2	76.1	74.2	73.9	75.6	^P 75.9	^P 77.2					
1989												

See footnotes at end of table.

**ESTABLISHMENT DATA
DIFFUSION INDEXES
SEASONALLY ADJUSTED**

Table B-7. Diffusion indexes of employment change, seasonally adjusted—Continued

(Percent)

Year	Manufacturing payrolls, 143 industries ¹											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span												
1977	66.0	59.9	68.4	70.9	67.0	59.6	60.3	54.3	62.1	57.4	63.1	70.2
1978	63.1	64.5	63.8	65.8	61.0	62.4	56.0	58.5	57.1	62.8	66.3	69.1
1979	60.3	55.0	58.9	50.4	55.7	61.7	50.0	45.0	41.1	57.4	46.8	47.9
1980	48.6	46.1	47.5	28.4	24.8	27.0	28.7	58.2	55.0	63.1	61.7	53.9
1981	53.2	45.0	55.0	63.1	61.3	56.7	56.0	42.2	39.4	30.5	29.4	23.4
1982	27.0	39.4	28.0	31.9	36.2	26.6	34.4	28.4	35.5	26.6	26.2	39.4
1983	53.2	48.6	55.3	67.0	67.4	59.9	68.8	64.9	68.1	70.9	62.4	62.1
1984	62.1	69.5	64.9	62.8	55.0	61.7	57.8	52.8	42.9	53.9	44.3	48.6
1985	47.5	40.4	43.6	36.9	42.9	40.1	48.2	45.7	37.6	45.7	45.0	47.9
1986	49.6	42.6	45.0	43.6	46.1	41.8	41.5	48.2	44.7	46.1	52.8	50.7
1987	46.8	52.5	53.9	58.4	58.9	55.7	67.7	56.0	64.2	64.2	64.2	61.0
1988	58.2	55.7	55.7	60.6	57.4	61.3	60.3	44.0	46.8	61.7	68.1	^P 56.0
1989	^P 59.9											
Over 3-month span												
1977	70.6	77.0	78.7	78.7	72.0	66.7	62.4	84.9	62.4	67.7	69.1	76.2
1978	77.0	72.3	72.3	69.9	69.1	62.8	61.3	58.2	62.4	67.0	70.9	73.4
1979	64.9	62.8	59.6	59.9	58.5	59.2	50.0	36.5	44.0	43.6	52.5	42.9
1980	44.7	40.4	28.4	20.2	18.4	19.5	27.7	39.7	64.2	67.7	67.4	61.3
1981	51.8	50.4	56.4	64.5	66.7	64.9	55.0	42.6	28.0	25.5	17.7	17.4
1982	17.0	19.1	21.3	22.0	22.0	22.3	18.1	18.8	20.6	18.4	17.7	33.3
1983	46.1	53.9	61.7	71.3	70.9	73.8	70.6	78.2	77.0	74.1	72.0	67.7
1984	71.6	71.3	73.4	65.2	63.8	59.9	59.2	50.7	47.5	42.9	45.7	45.0
1985	43.6	37.9	31.6	31.9	30.5	38.7	39.7	37.6	37.6	36.9	44.7	46.5
1986	42.6	40.4	37.6	39.0	39.4	38.7	39.0	42.9	44.3	48.9	53.2	51.8
1987	50.7	50.7	58.5	63.8	63.5	68.4	69.5	73.8	70.2	74.1	74.5	67.0
1988	66.0	61.0	62.8	64.5	66.7	68.8	61.3	52.1	53.5	65.6	^P 70.2	^P 69.1
1989												
Over 6-month span												
1977	81.6	81.9	79.1	77.3	75.2	74.8	67.7	68.4	70.9	75.2	80.5	77.7
1978	77.7	79.8	78.0	72.3	73.0	68.8	63.5	68.1	69.9	71.3	67.0	69.9
1979	68.4	66.3	62.1	58.2	52.1	43.6	48.2	41.5	39.7	40.1	42.6	42.9
1980	33.0	27.0	23.4	16.7	17.4	19.1	26.2	39.7	52.8	70.6	67.4	65.2
1981	65.2	62.8	62.8	68.1	61.7	55.3	40.1	29.1	22.3	17.0	18.4	12.4
1982	10.3	10.6	13.5	20.6	15.6	15.2	12.4	12.1	14.5	18.1	21.3	27.3
1983	46.8	59.6	64.9	67.0	75.5	78.2	78.7	77.3	78.2	74.8	75.9	74.8
1984	74.5	72.3	72.0	70.6	62.8	58.5	55.3	52.5	48.6	44.0	40.1	41.8
1985	34.6	34.4	28.4	31.9	32.6	32.3	32.6	33.0	39.4	39.7	37.9	37.2
1986	37.6	38.3	34.8	34.4	34.8	37.2	36.5	41.8	46.8	47.9	50.0	51.4
1987	58.5	57.1	57.1	66.7	69.1	74.5	75.5	76.6	79.4	74.1	72.7	72.3
1988	68.4	67.0	66.0	70.9	66.0	63.8	62.1	68.8	^P 65.6	^P 65.6		
1989												
Over 12-month span												
1977	77.0	77.7	75.9	76.6	81.2	82.6	84.0	81.9	83.3	80.5	78.0	77.3
1978	75.2	77.7	76.2	77.0	77.0	77.0	75.2	70.6	70.9	65.6	69.1	64.9
1979	67.0	64.2	62.4	57.4	51.8	48.6	48.9	47.5	42.2	36.5	29.1	24.8
1980	20.6	22.3	23.8	25.2	23.0	22.3	21.3	22.7	23.8	30.5	45.7	59.6
1981	72.0	69.1	69.1	52.8	40.4	35.1	27.7	21.6	17.7	15.2	13.8	12.4
1982	12.1	12.4	9.2	11.3	8.2	9.9	13.5	14.2	15.2	21.6	25.5	33.7
1983	43.3	50.0	56.0	66.0	71.6	75.5	76.2	78.4	78.0	78.7	80.1	76.2
1984	77.0	72.3	68.1	66.0	62.4	61.0	57.8	54.6	50.4	44.0	40.1	33.7
1985	31.6	30.9	30.1	28.4	27.7	28.4	29.1	29.8	32.6	30.9	32.6	29.8
1986	30.9	30.1	34.8	34.8	36.2	39.0	38.3	39.7	42.9	45.0	48.2	50.4
1987	59.6	63.5	64.5	68.8	73.0	73.8	75.2	75.2	75.9	75.9	75.2	79.1
1988	74.1	72.3	66.8	70.6	72.0	^P 70.9	^P 70.6					
1989												

¹ Based on seasonally adjusted data for 1-, 3-, and 6-month spans and unadjusted data for the 12-month span. Data are centered within the span.

^P = preliminary.

NOTE: Figures are the percent of industries with employment increasing plus one-half of the industries with unchanged employment, where 50 percent indicates an

equal balance between industries with increasing and decreasing employment. 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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Alabama	1,527.9	1,563.6	1,548.2	11.8	11.7	11.8	74.4	74.0	73.7
Birmingham	399.5	412.1	412.0	5.7	5.6	5.8	24.1	27.2	28.7
Huntsville	128.4	130.9	130.9	.1	.1	.1	5.5	5.9	5.7
Mobile	181.9	185.4	183.8	.5	.8	.5	9.5	9.1	9.3
Montgomery	127.5	128.1	127.3	.2	.2	.2	8.0	7.5	7.5
Tuscaloosa	59.2	62.0	61.4	2.5	2.5	2.5	2.8	3.2	3.0
Alaska	203.1	207.3	204.8	8.2	8.9	8.9	8.8	8.1	7.1
Arizona	1,423.1	1,440.8	1,435.3	11.7	12.1	12.1	97.9	94.7	93.7
Phoenix	938.1	943.0	940.8	.8	.7	.7	85.4	83.4	82.5
Tucson	251.8	254.8	254.8	1.8	1.8	1.9	19.2	18.3	18.5
Arkansas	851.2	872.4	872.5	4.0	4.2	4.1	33.8	34.3	33.8
Fayetteville-Springdale	48.7	51.3	51.3	(¹)	(¹)	(¹)	1.9	1.9	1.8
Fort Smith	78.1	78.5	75.6	.9	1.0	1.0	2.9	2.8	2.8
Little Rock-North Little Rock	233.9	241.8	241.4	.4	.4	.4	11.0	11.7	11.2
Pine Bluff	32.5	33.0	33.0	(¹)	(¹)	(¹)	1.4	1.5	1.8
California	11,873.2	12,327.2	12,391.8	41.0	40.2	39.9	599.7	663.3	659.1
Anaheim-Santa Ana	1,112.0	1,131.7	1,135.8	1.5	1.3	1.3	62.6	66.9	65.9
Bakersfield	181.4	159.1	180.5	13.1	12.8	12.9	9.2	8.4	8.7
Fresno	208.1	212.4	211.6	.8	.5	.5	12.3	12.8	12.7
Los Angeles-Long Beach	4,110.5	4,188.7	4,188.8	9.5	9.3	9.4	154.7	161.5	161.8
Modesto	107.8	111.1	110.9	(¹)	(¹)	(¹)	7.0	6.8	6.7
Oakland	829.7	853.5	857.1	3.2	3.4	3.3	49.0	51.8	50.8
Oxnard-Ventura	209.9	214.5	218.1	2.6	2.6	2.6	13.1	13.9	13.8
Riverside-San Bernardino	630.1	648.2	651.8	1.2	1.3	1.3	52.6	57.8	58.7
Sacramento	566.3	591.4	591.7	.8	.7	.6	34.0	37.9	37.0
San Diego	890.8	928.5	931.3	.8	.8	.8	57.1	63.0	63.0
San Francisco	952.9	967.9	972.8	.9	.9	.9	36.0	37.7	37.3
San Jose	798.9	807.6	809.5	.2	.1	.1	31.9	32.9	32.2
Santa Barbara-Santa Maria-Lompoc	147.2	150.9	151.0	1.3	1.3	1.3	8.6	7.0	6.9
Santa Rosa-Petaluma	127.8	131.8	131.8	.7	.8	.8	8.0	9.0	8.4
Stockton	143.0	147.4	147.1	.1	.1	.1	8.1	8.1	7.9
Vallejo-Fairfield-Napa	127.9	132.3	132.0	.3	.3	.3	9.1	10.4	10.4
Colorado	1,415.8	1,413.5	1,417.8	21.1	20.8	20.7	83.7	59.1	58.1
Boulder-Longmont	106.8	107.5	108.0	.3	.3	.3	3.4	3.0	2.9
Denver	800.9	795.3	797.4	13.9	13.1	13.0	36.1	33.0	31.5
Connecticut	1,674.5	1,898.3	1,707.0	1.6	1.7	1.6	79.5	80.5	79.1
Bridgeport-Milford	202.2	204.2	205.7	(¹)	(¹)	(¹)	9.2	8.8	8.6
Hartford	487.5	495.5	498.3	.3	.3	.3	20.7	22.3	21.9
New Haven-Meriden	258.1	262.4	263.5	.3	.4	.4	13.3	14.8	14.4
Stamford	129.7	130.1	131.4	.5	.5	.5	5.6	5.9	5.9
Waterbury	89.1	90.6	91.3	(¹)	(¹)	(¹)	4.7	5.1	5.0
Delaware	330.9	338.1	339.4	.1	.1	.1	21.1	22.1	21.9
Wilmington	282.1	289.0	290.3	.2	.1	.1	17.6	17.8	17.4
District of Columbia	664.2	679.0	683.0	.1	.1	.1	18.1	15.0	15.1
Washington MSA	2,124.6	2,190.4	2,204.4	1.3	1.3	1.3	132.1	139.9	138.6
Florida	5,037.3	5,215.7	5,236.7	8.6	9.0	9.1	348.7	358.1	358.9
Daytona Beach	113.8	117.8	117.3	(¹)	(¹)	(¹)	8.4	8.7	8.7
Fort Lauderdale-Hollywood-Pompano Beach	481.8	499.5	501.9	.4	.4	.3	35.8	38.1	38.3
Fort Myers-Cape Coral	113.4	119.6	121.8	(¹)	(¹)	(¹)	12.6	13.6	13.7
Jacksonville	406.3	428.1	426.0	.4	.4	.5	27.6	28.4	28.5
Melbourne-Titusville-Palm Bay	147.5	158.4	157.3	(¹)	(¹)	(¹)	8.3	8.4	8.5
Miami-Hialeah	839.4	853.0	855.8	.9	.9	.9	40.9	40.7	40.7
Orlando	489.3	510.0	511.9	(¹)	(¹)	(¹)	34.4	36.5	36.7
Pensacola	125.9	128.7	128.1	.4	.3	.3	9.3	9.0	8.8
Sarasota	107.5	111.1	111.1	(¹)	(¹)	(¹)	10.7	10.5	10.5
Tallahassee	111.1	115.7	115.7	(¹)	(¹)	(¹)	5.9	8.1	8.2
Tampa-St. Petersburg-Clearwater	815.8	838.9	838.6	.7	.6	.6	59.5	59.7	59.2
West Palm Beach-Boca Raton-DeLray Beach	344.7	364.3	368.1	(¹)	(¹)	(¹)	29.8	30.7	31.0

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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a
Alabama	373.4	377.1	375.5	72.3	72.9	72.7	344.8	347.4	353.2
Birmingham	55.3	57.1	57.3	27.8	27.9	27.8	102.5	103.2	105.6
Huntsville	31.8	33.0	33.1	2.9	2.9	2.9	24.4	24.7	25.3
Mobile	25.8	25.9	25.2	9.1	9.3	9.2	44.4	44.5	45.2
Montgomery	19.4	19.3	19.2	5.0	5.0	5.0	29.2	29.3	29.4
Tuscaloosa	9.6	9.9	9.7	1.9	1.9	1.9	12.7	12.9	13.0
Alaska	10.5	12.1	10.9	17.0	17.5	17.4	41.4	41.7	41.8
Arizona	188.6	188.8	188.5	75.0	73.5	74.0	351.2	353.2	358.5
Phoenix	137.3	138.0	137.8	51.4	50.8	51.2	236.9	238.1	240.9
Tucson	31.0	29.8	29.9	9.6	9.5	9.6	58.1	58.4	59.7
Arkansas	224.4	230.0	230.7	52.4	52.6	52.2	193.8	197.0	197.8
Fayetteville-Springdale	11.8	12.6	12.6	4.5	5.2	5.2	11.2	11.7	11.8
Fort Smith	27.4	26.0	25.7	3.9	4.1	4.1	15.9	15.6	15.6
Little Rock-North Little Rock	32.9	35.0	35.0	16.8	17.2	17.2	56.9	58.1	58.6
Pine Bluff	6.4	6.3	6.4	2.5	2.5	2.4	7.0	7.0	7.1
California	2,126.1	2,165.4	2,159.6	591.5	591.1	593.1	2,896.7	2,959.7	3,017.5
Anaheim-Santa Ana	253.0	258.6	257.7	34.5	34.5	34.7	285.5	287.8	293.9
Bakersfield	11.2	11.2	11.0	7.8	8.2	8.2	39.5	38.7	39.4
Fresno	22.9	23.9	22.9	11.2	11.6	11.6	54.9	53.2	53.4
Los Angeles-Long Beach	917.6	916.5	913.0	209.8	211.9	211.5	954.4	953.8	972.1
Modesto	22.7	25.6	24.2	4.6	4.3	4.4	28.7	29.2	30.0
Oakland	104.9	107.0	106.7	56.6	58.0	56.1	210.2	211.9	216.6
Oxnard-Ventura	30.0	30.5	30.6	10.3	9.9	10.1	52.9	53.7	55.0
Riverside-San Bernardino	83.3	85.4	85.2	31.7	31.9	31.8	161.6	163.1	166.7
Sacramento	41.0	43.1	42.9	25.4	26.8	27.3	141.6	145.1	146.4
San Diego	124.0	125.5	125.7	34.4	34.4	34.3	219.6	227.1	231.2
San Francisco	80.4	81.4	80.7	77.5	76.9	77.0	221.5	221.2	225.9
San Jose	261.7	269.2	269.2	22.4	21.9	22.0	158.3	156.3	158.6
Santa Barbara-Santa Maria-Lompoc	22.0	22.2	22.2	5.1	5.2	5.3	36.3	36.9	37.0
Santa Rosa-Petaluma	18.7	19.0	19.1	6.3	6.2	6.2	34.0	35.0	35.5
Stockton	22.5	23.7	23.5	8.3	8.9	8.8	34.4	35.0	35.2
Vallejo-Fairfield-Napa	11.7	12.3	12.2	4.6	4.6	4.6	31.2	32.6	32.6
Colorado	186.1	189.4	188.7	85.0	83.0	83.6	359.2	353.4	357.5
Boulder-Longmont	29.1	29.0	29.3	2.3	2.3	2.3	23.3	23.5	23.6
Denver	94.7	95.6	95.8	62.1	59.8	60.2	204.8	200.3	203.7
Connecticut	383.3	379.1	381.2	73.9	74.5	74.8	386.2	395.4	404.0
Bridgeport-Milford	58.6	56.9	56.9	9.3	9.7	9.8	48.8	47.7	48.7
Hartford	93.8	93.9	93.9	18.1	18.6	18.8	106.3	106.5	108.9
New Haven-Meriden	46.5	46.1	46.2	18.3	18.6	18.6	60.5	62.0	63.2
Stamford	23.7	23.3	23.4	5.3	5.4	5.4	32.6	31.7	32.8
Waterbury	23.5	23.8	23.9	3.3	3.1	3.3	18.9	18.6	19.2
Delaware	70.4	69.8	69.9	13.9	14.3	14.4	75.0	73.5	74.4
Wilmington	59.9	58.4	58.7	15.1	15.4	15.4	60.8	61.4	62.3
District of Columbia	16.4	16.5	16.5	24.4	24.8	24.9	65.8	67.2	68.0
Washington MSA	87.4	87.7	87.7	104.0	110.0	111.2	435.2	438.3	446.5
Florida	541.2	542.8	545.2	263.4	264.3	268.4	1,390.1	1,428.4	1,459.8
Daytona Beach	12.0	11.9	11.9	3.6	3.6	3.6	33.6	34.8	35.6
Fort Lauderdale-Hollywood-Pompano Beach	46.2	47.0	47.0	23.1	23.7	24.0	145.5	147.8	151.2
Fort Myers-Cape Coral	5.6	5.7	5.7	5.0	5.2	5.3	34.1	35.0	37.0
Jacksonville	39.4	40.8	40.3	28.2	28.7	29.0	110.9	114.1	115.7
Melbourne-Titusville-Palm Bay	28.7	30.4	30.6	6.0	6.0	6.1	35.2	36.0	37.1
Miami-Hialeah	96.0	96.6	97.0	68.4	68.2	69.0	226.3	228.8	232.9
Orlando	54.6	55.1	55.2	25.5	26.2	26.6	130.6	134.5	137.2
Pensacola	11.4	11.6	11.5	6.0	6.2	6.2	33.5	33.6	34.2
Sarasota	9.1	8.6	8.6	3.6	3.5	3.5	32.3	32.8	33.5
Tallahassee	4.8	4.8	4.8	3.1	3.1	3.1	23.4	23.9	24.3
Tampa-St. Petersburg-Clearwater	93.3	95.9	95.8	38.7	39.4	39.5	229.5	231.4	236.0
West Palm Beach-Boca Raton-DeLray Beach	37.2	36.0	35.9	12.0	12.7	12.9	95.2	100.6	104.3

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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Alabama	70.2	70.9	71.0	278.7	286.2	288.3	302.5	323.4	304.2
Birmingham	29.3	29.4	29.1	93.2	96.7	97.0	61.6	65.0	62.9
Huntsville	3.6	3.8	3.8	28.2	30.2	30.3	29.9	30.3	29.7
Mobile	8.0	7.9	7.9	36.3	37.3	37.6	28.3	30.8	28.9
Montgomery	7.6	7.7	7.7	26.2	26.1	26.1	31.9	33.0	32.2
Tuscaloosa	2.1	2.2	2.2	8.3	8.6	8.6	19.3	20.8	20.5
Alaska	10.8	10.5	10.5	40.3	41.1	41.1	66.1	67.4	67.1
Arizona	95.1	90.9	90.8	353.0	359.2	360.3	250.6	268.2	257.4
Phoenix	75.3	72.3	72.1	237.6	241.6	242.6	131.6	138.1	132.8
Tucson	12.6	12.0	12.1	66.7	67.8	67.9	52.8	57.2	55.2
Arkansas	37.5	37.9	37.9	155.1	161.6	161.5	150.2	154.8	154.5
Fayetteville-Springdale	1.5	1.5	1.4	7.3	7.5	7.6	10.5	10.9	10.9
Fort Smith	2.7	2.6	2.6	16.8	16.5	16.1	7.6	7.9	7.7
Little Rock-North Little Rock	15.8	16.3	16.3	53.5	56.0	56.0	46.6	46.9	46.7
Pine Bluff	1.5	1.5	1.5	6.2	6.4	6.5	7.5	7.8	7.5
California	815.7	828.3	830.6	2,960.2	3,061.7	3,075.7	1,942.3	2,017.5	2,016.1
Anaheim-Santa Ana	91.2	89.8	89.8	266.2	271.7	271.3	117.5	121.1	121.0
Bakersfield	6.2	6.2	6.2	33.0	31.8	32.2	41.4	41.8	41.9
Fresno	13.2	12.7	12.7	48.0	50.7	50.7	45.0	47.0	47.1
Los Angeles-Long Beach	289.9	297.1	297.9	1,067.1	1,095.0	1,098.0	507.5	523.6	525.1
Modesto	4.6	4.6	4.6	21.6	22.3	22.4	18.4	18.5	18.6
Oakland	55.0	55.9	56.3	190.0	197.1	197.8	160.8	168.6	167.5
Oxnard-Ventura	10.3	11.0	11.0	49.7	51.4	51.6	41.0	41.5	41.4
Riverside-San Bernardino	26.9	28.3	28.4	148.4	152.2	153.5	124.2	128.2	128.2
Sacramento	33.8	35.4	35.7	122.3	128.4	128.9	167.2	174.0	172.9
San Diego	61.5	63.2	63.2	233.4	245.3	246.1	159.8	167.2	167.0
San Francisco	113.0	114.0	113.6	287.2	297.4	298.5	136.4	138.4	138.9
San Jose	34.7	34.8	34.7	200.5	205.1	205.8	89.2	87.5	86.9
Santa Barbara-Santa Maria-Lompoc	8.6	8.7	8.7	40.0	41.0	41.0	27.3	28.6	28.6
Santa Rosa-Petaluma	8.4	8.8	8.8	28.7	29.6	29.5	22.8	23.4	23.5
Stockton	8.6	8.4	8.4	30.1	30.7	30.8	30.9	32.5	32.4
Vallejo-Fairfield-Napa	4.5	4.5	4.5	28.9	29.6	29.5	37.6	38.0	37.9
Colorado	98.2	96.3	95.9	332.1	336.9	342.8	270.2	274.6	272.5
Boulder-Longmont	4.1	4.0	4.1	21.7	22.2	22.3	22.6	23.2	23.2
Denver	66.6	65.4	65.3	194.5	198.0	198.9	128.2	130.1	129.0
Connecticut	150.4	151.5	151.6	391.8	403.4	405.2	207.8	210.2	209.5
Bridgeport-Milford	12.0	12.6	12.7	44.1	46.8	47.3	20.2	20.7	20.7
Hartford	78.6	80.0	80.2	107.9	111.4	111.7	61.8	62.5	62.6
New Haven-Meriden	15.5	16.0	16.0	69.5	72.3	72.3	32.2	32.4	32.4
Stamford	13.4	13.8	13.7	37.8	38.6	38.8	10.8	10.9	10.9
Waterbury	4.1	4.5	4.5	22.0	22.1	22.1	12.6	13.4	13.3
Delaware	27.0	29.6	30.1	76.0	80.3	80.3	47.4	48.4	48.3
Wilmington	24.1	26.1	26.7	66.5	70.5	70.7	37.9	39.3	39.0
District of Columbia	37.5	37.7	37.5	238.1	248.5	249.6	265.7	269.3	271.3
Washington MSA	126.5	130.7	130.6	675.9	708.5	712.4	562.2	574.0	576.2
Florida	367.1	371.8	373.4	1,348.5	1,415.0	1,428.0	769.7	826.3	793.9
Daytona Beach	6.6	6.6	6.6	30.6	31.2	31.0	18.6	21.0	19.9
Fort Lauderdale-Hollywood-Pompano Beach	40.5	41.6	41.9	130.2	134.4	136.6	60.1	68.5	64.6
Fort Myers-Cape Coral	8.4	8.3	8.3	31.6	33.9	34.5	16.0	17.8	17.0
Jacksonville	38.1	39.9	39.9	103.0	111.3	111.9	58.7	62.5	60.2
Melbourne-Titusville-Palm Bay	5.6	5.9	5.9	42.2	46.3	46.5	21.4	23.3	22.5
Miami-Hialeah	67.7	68.8	69.1	225.2	230.6	232.1	112.0	118.4	114.1
Orlando	34.3	36.3	36.3	152.7	159.4	160.1	57.0	61.9	59.7
Pensacola	5.6	5.8	5.7	30.5	31.6	31.7	29.2	30.6	29.7
Sarasota	8.7	8.6	8.5	30.6	33.2	33.4	12.4	13.9	13.1
Tallahassee	5.0	5.0	5.0	22.1	23.0	22.9	46.8	49.5	49.1
Tampa-St. Petersburg-Clearwater	66.3	67.4	67.3	223.1	231.5	232.7	104.5	113.0	107.5
West Palm Beach-Boca Raton-Delray Beach	29.5	29.0	29.3	100.3	108.8	110.6	40.8	46.4	44.0

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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Georgia	2,807.8	2,822.3	2,833.6	8.4	8.5	8.6	154.8	143.1	142.5
Athens	62.7	64.7	64.4	.2	.2	.2	2.4	2.2	2.3
Atlanta	1,388.6	1,402.7	1,409.4	1.4	1.3	1.3	71.9	69.3	68.6
Augusta	159.0	158.1	158.6	.5	.5	.5	9.8	10.0	10.1
Columbus	93.0	92.0	92.6	.1	.1	.1	5.3	5.1	5.1
Macon—Warner Robins	119.8	119.9	120.4	.1	.1	.1	4.9	4.8	4.7
Savannah	103.8	102.2	102.3	(¹)	(¹)	(¹)	7.3	6.5	6.5
Hawaii	470.6	474.5	479.5	(¹)	(¹)	(¹)	20.3	21.4	21.8
Honolulu	375.8	377.7	381.0	(¹)	(¹)	(¹)	15.9	16.9	17.1
Idaho	340.0	354.6	353.1	2.7	3.4	3.2	12.8	15.4	13.6
Boise City	88.3	92.5	92.4	(²)	(²)	(²)	4.3	4.6	4.2
Illinois	4,963.8	5,117.0	5,082.1	23.5	23.4	23.3	194.8	219.4	208.1
Aurora—Elgin	139.1	144.1	144.6	(¹)	(¹)	(¹)	6.6	7.4	7.1
Bloomington—Normal	56.4	58.5	58.7	(¹)	(¹)	(¹)	1.6	1.8	1.7
Champaign—Urbana—Rantoul	86.1	87.9	87.4	(¹)	(¹)	(¹)	2.4	2.5	2.4
Chicago	3,068.9	3,146.4	3,133.2	2.4	2.4	2.2	121.9	133.8	127.1
Davenport—Rock Island—Moline	155.2	156.3	155.9	(¹)	(¹)	(¹)	4.4	4.7	4.5
Decatur	51.0	50.9	51.5	(¹)	(¹)	(¹)	1.9	1.9	1.9
Joliet	98.0	98.3	98.3	(¹)	(¹)	(¹)	5.6	5.6	5.6
Lake County	190.4	200.7	199.7	(¹)	(¹)	(¹)	8.8	10.4	9.9
Peoria	134.0	138.2	138.1	(¹)	(¹)	(¹)	5.0	5.6	5.4
Rockford	124.2	127.3	127.2	(¹)	(¹)	(¹)	4.6	4.7	4.5
Springfield	98.1	99.6	99.5	(¹)	(¹)	(¹)	3.2	3.4	3.2
Indiana	2,360.1	2,450.9	2,446.9	8.5	8.3	7.9	101.0	117.4	111.2
Anderson	48.7	49.6	49.4	(²)	(²)	(²)	1.4	1.5	1.4
Bloomington	52.9	56.8	56.1	(²)	(²)	(²)	2.0	2.6	2.4
Elkhart—Goshen	99.9	104.6	104.2	(²)	(²)	(²)	2.8	3.0	3.0
Evansville	127.1	131.7	131.7	2.2	2.1	2.0	7.2	7.4	7.1
Fort Wayne	190.1	200.0	199.3	(²)	(²)	(²)	9.8	11.2	10.6
Gary—Hammond	224.5	234.7	234.6	(²)	(²)	(²)	11.6	15.0	14.3
Indianapolis	616.6	640.4	641.0	.8	.8	.8	31.0	34.2	32.9
Lafayette	65.5	67.6	67.2	(²)	(²)	(²)	2.8	3.6	3.7
Muncie	51.6	53.6	53.5	(²)	(²)	(²)	1.9	2.2	2.1
South Bend—Mishawaka	115.0	117.6	117.9	(²)	(²)	(²)	5.2	6.3	6.2
Terre Haute	54.2	54.9	54.4	.3	.3	.3	2.1	2.6	2.4
Iowa	1,133.4	1,166.8	1,163.9	2.3	2.3	2.1	32.8	38.1	33.5
Cedar Rapids	89.0	92.8	92.6	.2	.1	.1	2.9	3.4	3.0
Des Moines	213.3	222.1	223.2	(¹)	(¹)	(¹)	7.6	8.2	7.2
Dubuque	43.5	44.4	44.0	(¹)	(¹)	(¹)	1.3	1.3	1.2
Sioux City	52.1	54.2	54.5	(¹)	(¹)	(¹)	1.8	1.8	1.7
Waterloo—Cedar Falls	62.8	65.3	64.8	(¹)	(¹)	(¹)	1.5	2.2	1.9
Kansas	1,020.7	1,040.4	1,035.2	12.1	10.9	10.9	43.3	42.2	39.8
Topeka	86.8	89.3	88.9	(¹)	(¹)	(¹)	3.6	3.1	3.1
Wichita	230.5	236.8	235.7	2.5	2.2	2.3	9.5	9.9	9.5
Kentucky	1,352.0	1,386.4	1,381.6	38.6	34.9	34.9	81.3	64.8	63.7
Lexington—Fayette	177.3	182.5	181.3	.6	.5	.4	9.4	9.1	8.7
Louisville	449.4	463.3	462.5	.4	.3	.3	24.8	25.7	25.5
Owensboro	34.4	35.2	34.9	.8	.6	.6	2.1	2.1	2.0
Louisiana	1,504.3	1,516.0	1,516.8	55.3	54.4	54.1	80.4	81.9	80.2
Alexandria	46.2	46.3	46.3	.2	.2	.2	2.3	2.3	2.2
Baton Rouge	214.7	216.0	216.4	.8	.8	.8	20.4	20.5	20.1
Houma—Thibodaux	52.9	53.6	53.5	5.8	5.9	5.8	1.4	1.8	1.8
Lafayette	83.0	84.7	84.3	10.5	10.9	10.7	3.2	3.6	3.2
Monroe	54.4	54.8	54.7	.4	.4	.3	2.5	2.5	2.4
New Orleans	512.3	519.7	520.0	14.7	15.4	15.5	21.8	23.9	22.2
Shreveport	133.3	132.2	130.7	3.2	2.8	2.7	7.0	7.7	7.5
Maine	517.9	533.8	532.6	.1	.1	.1	31.7	36.1	34.9
Lewiston—Auburn	40.0	41.5	41.7	(¹)	(¹)	(¹)	2.3	2.4	2.3
Portland	128.0	131.6	132.5	(¹)	(¹)	(¹)	9.8	9.4	9.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Georgia	576.7	563.9	562.0	177.1	179.4	179.3	706.8	713.4	724.8
Athens	15.5	15.5	15.5	1.8	1.7	1.8	13.0	13.3	13.3
Atlanta	191.4	181.2	180.3	117.5	121.2	121.0	386.2	388.8	394.2
Augusta	36.5	36.9	37.0	5.2	5.1	5.1	34.7	33.5	33.6
Columbus	19.5	20.0	20.3	3.6	3.5	3.5	21.0	20.1	20.2
Macon-Warner Robins	18.5	18.1	17.8	4.9	4.9	4.9	27.3	27.2	27.3
Savannah	17.3	16.8	16.8	9.2	8.8	8.6	25.3	25.4	25.7
Hawaii	22.2	22.0	21.8	37.2	37.1	37.3	127.3	126.2	128.5
Honolulu	16.5	16.3	16.0	30.6	30.9	31.1	100.3	99.2	100.9
Idaho	55.4	59.4	59.1	18.1	19.1	18.9	87.9	88.5	90.2
Boise City	11.7	13.0	13.0	5.2	5.2	5.2	23.5	24.3	24.6
Illinois	936.8	950.3	951.0	301.0	303.8	303.8	1,253.3	1,288.6	1,299.3
Aurora-Elgin	36.6	37.5	37.8	3.1	3.2	3.1	39.6	40.5	41.0
Bloomington-Normal	5.3	6.3	6.4	2.6	2.6	2.6	12.8	12.8	12.9
Champaign-Urbana-Rantoul	7.7	8.4	8.5	2.3	2.3	2.3	19.3	19.4	19.4
Chicago	553.0	555.3	555.1	195.1	196.8	196.2	787.1	791.8	801.0
Davenport-Rock Island-Moline	33.1	32.6	33.1	8.1	8.2	8.1	42.4	42.6	42.6
Decatur	13.0	13.2	13.4	4.9	4.8	4.8	12.4	11.8	12.2
Joliet	19.7	19.9	19.9	8.4	8.3	8.3	23.2	23.1	23.1
Lake County	43.2	44.0	44.3	6.9	7.4	7.4	52.6	55.0	55.5
Peoria	32.1	34.9	34.9	6.8	8.7	6.7	33.3	33.3	33.4
Rockford	41.7	44.5	44.5	4.3	4.4	4.4	29.1	28.9	29.0
Springfield	3.8	3.9	3.9	4.9	5.0	5.0	22.1	22.1	22.1
Indiana	626.7	640.6	639.6	122.4	132.6	132.6	567.1	584.3	588.5
Anderson	16.8	16.6	16.8	1.5	1.6	1.6	11.5	11.8	11.8
Bloomington	9.1	10.2	10.1	1.7	1.8	1.8	11.9	12.6	12.5
Elkhart-Goshen	53.7	56.7	56.2	2.8	2.9	2.9	18.7	19.1	19.2
Evansville	30.5	31.2	30.9	6.6	6.7	6.8	34.2	35.8	36.0
Fort Wayne	51.0	53.2	53.0	12.1	12.9	12.8	48.0	50.0	50.4
Gary-Hammond	56.2	57.4	57.4	14.8	15.3	15.4	53.7	55.6	56.2
Indianapolis	107.0	106.1	106.2	37.6	38.6	38.6	162.5	168.2	169.8
Lafayette	12.0	12.6	12.5	2.0	2.0	2.0	13.4	13.2	13.4
Muncie	10.4	11.0	10.9	2.5	2.5	2.6	13.0	13.2	13.4
South Bend-Mishawaka	24.3	23.3	23.3	5.0	5.3	5.3	30.9	31.7	32.1
Terre Haute	10.3	9.8	9.8	2.8	2.9	2.9	14.8	15.3	15.1
Iowa	220.7	228.8	229.0	53.9	55.2	55.8	289.4	297.9	300.4
Cedar Rapids	23.3	24.4	24.4	6.0	6.8	6.8	21.8	22.4	22.6
Des Moines	25.4	26.3	26.9	12.3	12.6	12.8	57.1	59.6	60.7
Dubuque	12.8	13.2	13.1	1.7	1.8	1.8	9.9	10.1	10.2
Sioux City	10.1	11.1	11.3	3.2	3.3	3.3	13.7	14.2	14.3
Waterloo-Cedar Falls	14.4	15.8	15.8	1.7	1.8	1.8	15.2	15.8	15.9
Kansas	178.6	181.7	181.7	61.6	61.9	62.1	260.0	260.8	263.2
Topeka	8.7	8.6	8.8	6.6	6.3	6.3	19.9	20.7	20.9
Wichita	60.1	61.6	61.7	10.8	10.7	10.6	53.6	54.8	55.3
Kentucky	267.9	274.6	278.2	68.5	67.4	67.8	330.7	339.4	344.2
Lexington-Fayette	28.9	30.3	30.8	8.0	8.2	8.3	43.5	45.6	46.2
Louisville	87.6	87.7	87.8	29.4	30.9	31.2	113.1	117.3	118.6
Owensboro	5.9	6.3	6.3	2.2	2.1	2.1	9.0	9.1	9.3
Louisiana	167.8	171.6	171.8	103.6	105.7	106.0	371.7	371.6	374.7
Alexandria	3.4	3.3	3.3	2.2	2.2	2.2	11.5	11.3	11.5
Baton Rouge	18.7	19.0	19.0	10.1	10.4	10.4	52.2	53.1	53.8
Houma-Thibodaux	4.4	4.2	4.1	5.6	8.2	6.0	13.7	13.8	13.7
Lafayette	6.1	6.1	6.1	5.6	5.9	6.1	22.4	23.6	23.8
Monroe	7.2	7.3	7.4	2.6	2.7	2.6	14.9	14.3	14.6
New Orleans	42.9	43.1	43.5	43.4	44.6	44.9	136.4	134.6	136.4
Shreveport	17.2	17.0	16.9	8.1	8.0	8.0	33.3	32.0	31.8
Maine	106.6	109.8	109.9	20.3	21.5	21.5	131.3	131.7	134.0
Lewiston-Auburn	10.4	10.1	10.0	1.4	1.4	1.4	9.8	10.7	11.0
Portland	16.4	17.2	17.4	6.0	5.5	5.6	37.8	39.9	40.9

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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Georgia	156.4	158.1	158.5	543.9	560.4	561.5	483.6	495.4	498.5
Athens	1.9	2.0	2.0	9.8	10.1	9.9	18.2	19.6	19.3
Atlanta	98.8	100.7	100.8	323.2	334.6	336.3	198.1	205.7	206.8
Augusta	6.1	6.0	6.0	32.4	32.5	32.5	33.7	33.8	33.8
Columbus	6.2	6.0	6.1	16.4	16.7	16.9	20.8	20.8	20.5
Macon-Warner Robins	7.8	7.9	8.0	22.9	22.6	22.7	33.8	34.4	34.8
Savannah	4.5	4.2	4.1	24.0	24.2	24.3	16.3	18.3	16.4
Hawaii	34.3	34.6	34.7	129.9	132.7	133.5	99.4	100.5	101.9
Honolulu	28.7	28.9	29.0	100.1	101.2	101.3	83.7	84.3	85.8
Idaho	18.9	19.4	19.5	68.9	71.2	71.8	75.3	78.2	78.6
Boise City	7.4	7.8	7.9	19.2	19.8	19.8	17.0	17.8	17.7
Illinois	359.9	383.0	383.6	1,160.6	1,204.4	1,199.0	733.9	764.1	734.0
Aurora-Elgin	6.5	6.6	6.7	30.9	33.3	33.2	15.7	15.5	15.8
Bloomington-Normal	9.4	9.8	9.8	11.7	12.0	12.0	13.0	13.4	13.5
Champaign-Urbana-Rantoul	3.3	3.4	3.4	18.1	18.3	18.3	35.0	35.6	35.1
Chicago	280.1	284.1	284.3	789.8	819.7	816.7	359.5	382.5	368.6
Davenport-Rock Island-Moline	8.1	8.2	8.2	31.5	31.7	31.7	27.6	28.3	27.7
Decatur	2.7	2.7	2.7	10.5	10.7	10.7	5.6	5.8	5.8
Joliet	3.8	3.8	3.8	20.0	20.1	20.1	17.0	17.2	17.2
Lake County	6.9	6.9	6.9	40.8	43.1	42.8	30.6	33.3	32.3
Peoria	7.0	7.0	7.0	33.6	34.2	34.3	16.2	16.5	16.4
Rockford	5.4	5.4	5.4	26.8	27.0	27.0	12.5	12.4	12.4
Springfield	7.9	8.0	8.0	23.9	23.9	23.8	32.2	33.2	33.4
Indiana	116.6	120.2	120.7	460.1	479.6	476.9	357.7	368.0	367.4
Anderson	1.8	1.7	1.7	9.9	10.0	10.0	5.9	6.4	6.3
Bloomington	1.8	2.0	2.0	8.0	8.8	8.5	18.3	19.1	18.8
Elkhart-Goshen	2.6	2.8	2.8	13.4	14.1	14.1	5.9	6.0	6.0
Evansville	5.3	5.4	5.4	29.1	30.7	30.8	12.1	12.8	12.7
Fort Wayne	12.2	12.2	12.3	39.0	41.4	41.2	18.1	19.0	18.9
Gary-Hammond	8.4	8.5	8.5	48.2	50.7	50.4	31.7	32.2	32.5
Indianapolis	48.5	48.8	48.9	139.4	148.1	148.1	92.0	95.8	95.7
Lafayette	3.0	3.2	3.2	11.4	11.4	11.4	20.9	21.5	21.0
Muncie	1.7	1.7	1.7	10.6	10.9	10.6	11.8	12.1	12.0
South Bend-Mishawaka	6.3	6.5	6.5	31.8	33.0	33.0	11.7	11.8	11.8
Terre Haute	2.0	2.1	2.1	11.0	11.0	11.0	10.9	11.0	10.8
Iowa	65.4	67.3	67.9	249.9	258.6	255.8	219.0	220.8	219.4
Cedar Rapids	4.8	4.6	4.8	19.4	20.5	20.5	10.8	10.4	10.4
Des Moines	27.9	30.2	30.3	53.1	54.9	55.0	29.7	30.1	30.1
Dubuque	1.4	1.5	1.5	12.5	12.9	12.8	3.8	3.5	3.5
Sioux City	2.6	2.6	2.8	14.3	14.8	14.7	6.4	6.6	6.6
Waterloo-Cedar Falls	2.9	2.7	2.7	14.3	14.1	14.1	12.7	12.8	12.5
Kansas	56.4	57.2	57.3	204.2	212.2	212.3	204.5	213.5	207.9
Topeka	6.3	6.7	6.7	20.8	21.3	21.4	20.8	22.5	21.8
Wichita	11.4	11.3	11.3	55.1	57.7	57.8	27.5	28.8	27.2
Kentucky	61.1	61.0	61.1	278.1	288.5	288.2	245.6	255.8	243.5
Lexington-Fayette	9.3	9.5	9.5	41.4	41.4	40.5	38.2	37.9	38.9
Louisville	28.9	29.1	29.0	103.4	107.8	107.8	61.8	64.5	62.3
Owensboro	1.5	1.5	1.5	7.7	7.9	7.9	5.2	5.6	5.2
Louisiana	84.5	84.0	84.3	325.8	333.9	332.4	315.2	312.9	313.3
Alexandria	2.8	2.6	2.8	11.2	11.7	11.7	12.8	12.7	12.8
Baton Rouge	13.3	13.5	13.8	43.5	44.0	44.2	55.7	54.7	54.5
Houma-Thibodaux	2.3	2.1	2.1	8.8	9.2	9.3	10.9	10.6	10.7
Lafayette	3.8	3.5	3.4	18.3	18.2	18.1	13.1	12.9	12.9
Monroe	4.8	4.5	4.5	11.4	11.9	11.7	10.8	11.2	11.2
New Orleans	34.1	33.8	33.9	133.9	138.3	137.7	85.1	86.0	85.9
Shreveport	7.4	6.9	6.9	31.7	32.4	31.7	25.4	25.4	25.2
Maine	25.1	25.4	25.5	109.3	112.5	111.8	93.5	96.7	94.9
Lewiston-Auburn	2.2	2.3	2.3	10.0	10.5	10.6	3.9	4.1	4.1
Portland	12.6	12.8	12.8	29.1	30.3	30.1	16.3	16.7	16.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Maryland	2,050.8	2,079.3	2,090.3	1.9	1.9	1.8	153.1	156.8	156.4
Baltimore MSA	1,101.0	1,108.6	1,116.1	.3	.3	.3	72.5	76.4	75.6
Baltimore City	460.1	463.7	466.7	(¹)	(¹)	(¹)	18.9	20.3	19.5
Suburban Maryland-D.C.	729.1	743.2	747.4	.7	.7	.7	62.4	64.5	63.5
Massachusetts	3,101.9	3,165.8	3,180.5	1.9	2.0	2.1	142.1	160.2	156.8
Boston	1,751.6	1,775.1	1,783.8	1.0	1.2	1.2	71.7	77.0	75.7
Brockton	73.8	76.0	76.5	(¹)	(¹)	(¹)	3.8	4.4	4.2
Fall River	56.7	57.9	58.4	(¹)	(¹)	(¹)	2.4	3.0	2.9
Fitchburg-Leominster	40.5	40.9	41.0	(¹)	(¹)	(¹)	2.7	3.0	2.9
Lawrence-Haverhill	163.9	164.8	165.3	(¹)	(¹)	(¹)	8.3	8.4	8.5
Lowell	107.4	108.4	109.1	.2	.1	.1	5.6	6.6	6.4
New Bedford	68.2	69.8	70.3	(¹)	(¹)	(¹)	3.2	3.8	3.7
Springfield	243.0	244.3	248.3	.1	.1	.1	10.5	11.2	10.9
Worcester	206.1	212.2	213.9	.1	.2	.1	9.7	10.9	10.7
Michigan	3,776.3	3,853.9	3,827.3	9.5	10.2	10.0	123.3	141.8	134.1
Ann Arbor	172.8	178.0	176.8	(¹)	(¹)	(¹)	5.7	6.9	5.9
Battle Creek	58.0	60.0	59.5	(¹)	(¹)	(¹)	1.9	2.3	2.0
Benton Harbor	64.4	66.8	65.9	(¹)	(¹)	(¹)	1.2	1.5	1.5
Detroit	1,885.5	1,915.2	1,909.1	.8	.9	.6	60.0	67.3	62.9
Flint	172.1	171.0	171.1	(¹)	(¹)	(¹)	4.1	4.5	4.2
Grand Rapids	321.5	334.2	333.3	(¹)	(¹)	(¹)	14.3	18.1	15.5
Kalamazoo	107.7	110.8	109.7	(¹)	(¹)	(¹)	3.1	3.5	3.3
Lansing-East Lansing	208.0	213.7	212.2	(¹)	(¹)	(¹)	4.8	6.4	6.0
Muskegon	57.1	58.0	57.6	(¹)	(¹)	(¹)	2.1	2.2	2.2
Saginaw-Bay City-Midland	157.0	163.7	161.5	(¹)	(¹)	(¹)	6.7	7.4	6.9
Minnesota	1,997.9	2,066.5	2,059.0	6.1	7.2	6.8	78.6	82.8	73.5
Duluth	89.4	91.8	90.7	4.2	4.7	4.7	3.7	3.9	3.1
Minneapolis-St. Paul	1,310.0	1,336.1	1,334.5	(¹)	(¹)	(¹)	52.2	56.8	52.8
Rochester	57.9	60.4	60.4	(¹)	(¹)	(¹)	1.8	2.0	1.8
St. Cloud	72.4	74.5	74.6	(¹)	(¹)	(¹)	4.2	4.0	3.6
Mississippi	864.7	907.3	897.1	6.3	6.1	6.1	34.3	34.1	33.3
Jackson	180.1	185.1	184.4	1.2	1.1	1.1	8.5	8.6	8.4
Missouri	2,215.1	2,248.2	2,244.5	5.3	5.5	5.3	98.4	101.9	98.4
Kansas City	739.9	745.3	743.9	.5	.5	.5	36.6	38.1	36.8
St. Louis	1,137.7	1,152.6	1,151.8	3.5	3.5	3.5	57.3	55.2	53.9
Springfield	110.5	115.0	114.4	.1	.1	.1	5.3	5.9	5.7
Montana	275.3	283.1	277.3	5.7	6.0	5.7	8.3	9.6	8.4
Nebraska	670.2	681.7	679.8	1.6	1.6	1.6	22.7	24.9	23.3
Lincoln	112.7	116.2	115.3	(¹)	(¹)	(¹)	3.9	4.3	4.0
Omaha	302.9	311.7	312.6	.2	.2	.2	11.6	12.6	11.8
Nevada	514.4	547.3	544.6	9.0	11.2	11.3	30.1	35.7	35.6
Las Vegas	293.2	313.7	312.8	.2	.3	.3	18.5	21.4	21.9
Reno	135.2	141.1	140.5	.9	1.1	1.1	7.0	8.7	8.4
New Hampshire	529.0	547.1	549.5	.7	.7	.7	38.0	40.1	37.8
Nashua	96.2	96.5	97.3	.1	.1	.1	5.4	5.7	5.6
Portsmouth-Dover-Rochester	111.4	116.1	116.0	.1	.1	.1	6.2	6.2	6.2
New Jersey	3,653.2	3,727.6	3,729.3	2.3	2.5	2.5	177.5	191.3	166.5
Atlantic City	155.3	165.1	162.2	(¹)	(¹)	(¹)	10.5	10.9	10.9
Bergen-Passaic	685.1	698.2	699.8	.1	.2	.2	31.7	33.8	32.8
Camden	435.5	448.8	450.6	.1	.1	.1	25.9	29.5	28.8
Jersey City	245.7	250.9	249.9	(¹)	(¹)	(¹)	7.5	8.6	8.4
Middlesex-Somerset-Hunterdon	527.8	546.5	547.9	.6	.7	.7	23.8	26.0	25.6
Monmouth-Ocean	323.7	335.6	336.2	(¹)	(¹)	(¹)	21.6	25.4	25.2
Newark	971.4	984.2	986.7	.7	.7	.7	40.5	45.0	44.6
Trenton	199.2	202.6	203.6	(¹)	(¹)	(¹)	5.3	5.8	5.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a
Maryland	207.3	207.4	207.2	94.3	94.9	95.6	531.9	532.4	540.7
Baltimore MSA	132.8	130.3	131.0	53.4	53.3	53.6	275.5	274.3	280.5
Baltimore City	45.1	44.1	44.9	28.1	27.7	27.8	98.6	98.7	99.5
Suburban Maryland-D.C.	35.6	36.1	36.1	28.8	28.8	28.8	200.4	199.0	202.4
Massachusetts	592.5	579.8	577.1	131.9	133.3	134.5	740.5	742.2	755.3
Boston	278.3	272.9	270.5	76.1	78.6	76.8	400.6	394.0	402.7
Brockton	11.5	11.8	11.6	5.2	5.3	5.4	23.0	23.8	24.4
Fall River	17.0	15.9	15.9	1.8	2.0	1.9	15.4	16.2	16.7
Fitchburg-Leominster	11.5	11.7	11.7	1.7	1.7	1.8	10.4	10.5	10.7
Lawrence-Haverhill	51.0	49.1	48.8	7.0	8.7	8.8	37.4	38.7	39.4
Lowell	36.2	35.5	35.9	3.8	3.4	3.4	23.1	23.1	23.4
New Bedford	19.1	18.5	18.5	3.0	3.2	3.3	16.9	17.3	17.7
Springfield	51.5	51.2	51.2	9.7	10.1	10.2	58.8	59.0	60.2
Worcester	46.9	46.4	46.5	8.9	8.7	8.8	49.7	49.6	50.6
Michigan	961.8	947.3	949.0	150.8	152.9	153.6	893.3	894.8	910.7
Ann Arbor	39.8	38.8	39.1	4.6	4.3	4.3	30.5	31.9	32.3
Battle Creek	15.2	15.5	15.3	1.8	1.8	1.8	12.0	12.7	12.9
Benton Harbor	21.7	21.2	21.2	2.3	2.4	2.4	13.5	14.1	14.0
Detroit	463.7	458.0	461.3	86.5	86.0	86.4	458.6	454.3	463.7
Flint	53.2	49.0	49.1	4.4	4.7	4.7	48.8	48.2	49.3
Grand Rapids	97.6	99.5	99.8	11.2	11.2	11.2	84.8	87.9	89.5
Kalamazoo	30.1	30.4	30.3	3.4	3.5	3.5	24.5	25.2	25.4
Lansing-East Lansing	34.8	32.6	32.7	5.7	5.6	5.5	43.7	45.1	46.0
Muskegon	17.5	17.2	17.2	2.3	2.4	2.3	12.9	13.0	13.2
Saginaw-Bay City-Midland	43.2	44.7	44.1	6.8	7.2	7.1	38.3	38.3	38.6
Minnesota	379.2	391.6	391.0	102.6	104.4	104.3	502.2	518.2	523.1
Duluth	7.7	7.8	7.7	5.7	6.1	5.9	22.3	22.2	22.3
Minneapolis-St. Paul	257.1	261.6	261.6	72.0	72.3	72.5	328.0	329.8	333.9
Rochester	10.8	11.6	11.5	1.7	1.7	1.7	11.8	12.0	12.2
St. Cloud	12.3	12.6	12.7	3.4	3.6	3.7	22.2	23.2	23.6
Mississippi	232.6	235.2	234.1	42.3	43.6	43.2	192.1	194.0	197.0
Jackson	20.9	21.2	21.3	12.7	13.1	13.1	43.4	44.1	44.6
Missouri	421.3	425.8	426.9	144.3	145.1	144.1	552.9	560.3	564.7
Kansas City	111.2	109.0	108.7	58.6	58.0	55.9	196.7	195.8	196.7
St. Louis	219.2	225.2	225.5	74.4	75.4	75.2	281.2	281.8	284.6
Springfield	21.1	21.4	21.5	7.1	7.5	7.6	31.1	32.3	32.3
Montana	21.2	21.1	21.1	19.5	19.4	19.6	73.5	73.8	74.6
Nebraska	90.9	93.8	93.9	43.7	45.6	45.5	173.5	174.4	176.2
Lincoln	13.4	14.4	14.5	5.8	5.9	5.9	26.2	26.0	26.1
Omaha	35.0	36.1	36.0	23.4	25.3	25.2	78.1	79.0	80.2
Nevada	24.0	24.4	24.5	28.4	29.2	29.2	106.4	111.4	112.8
Las Vegas	9.0	9.1	9.1	16.1	16.7	16.5	63.0	66.3	67.2
Reno	8.1	8.0	8.1	9.3	9.4	9.6	31.2	32.0	32.6
New Hampshire	121.6	122.9	123.8	17.2	17.3	17.1	136.0	139.1	141.4
Nashua	37.4	37.2	37.3	2.1	2.1	2.2	22.2	21.6	22.1
Portsmouth-Dover-Rochester	20.7	21.2	21.8	3.0	3.2	3.2	29.3	31.8	31.6
New Jersey	671.3	670.9	666.7	243.0	247.8	248.0	894.9	892.2	906.8
Atlantic City	8.5	6.1	8.0	6.0	6.2	6.2	31.0	33.8	33.2
Bergen-Passaic	160.3	160.0	159.5	29.1	26.9	26.9	203.1	202.3	205.2
Camden	72.2	72.8	72.4	18.1	19.3	19.7	121.7	123.4	126.0
Jersey City	48.5	48.4	47.0	31.2	31.3	31.0	62.4	62.5	63.2
Middlesex-Somerset-Hunterdon	115.1	117.9	117.9	44.0	45.2	45.3	131.5	133.2	135.3
Monmouth-Ocean	30.3	29.8	29.7	16.6	17.3	17.2	90.0	90.3	91.5
Newark	181.2	177.8	177.1	81.5	79.9	79.4	203.7	202.8	206.6
Trenton	31.4	31.0	31.0	6.7	6.9	6.9	33.0	33.6	34.4

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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Maryland	126.1	126.4	128.7	542.0	552.2	554.9	394.3	405.3	405.0
Baltimore MSA	75.3	75.5	78.1	287.9	291.0	293.1	203.5	205.5	205.9
Baltimore City	44.0	44.8	44.9	140.8	143.2	143.1	84.5	85.0	88.9
Suburban Maryland-D.C.	41.8	43.3	43.3	209.5	212.4	214.1	150.0	158.4	158.5
Massachusetts	220.8	230.5	232.3	864.7	908.0	909.9	407.5	409.8	412.5
Boston	152.4	168.7	157.5	583.9	582.8	585.0	207.6	213.9	214.4
Brockton	3.1	3.1	3.1	15.3	15.7	15.9	11.9	11.9	11.9
Fall River	3.1	3.3	3.3	10.3	10.9	11.0	6.7	6.6	6.7
Fitchburg-Leominster	1.8	1.9	1.9	8.0	7.9	7.8	4.4	4.2	4.2
Lawrence-Haverhill	6.4	6.5	6.6	33.1	34.4	34.1	20.8	21.0	21.1
Lowell	4.3	4.3	4.3	20.5	21.0	21.0	13.7	14.4	14.8
New Bedford	2.5	2.7	2.7	13.1	13.6	13.7	10.4	10.7	10.7
Springfield	18.3	18.4	18.4	58.4	59.2	59.9	37.7	37.1	37.4
Worcester	14.3	15.0	15.1	51.1	55.6	58.2	25.4	25.6	25.9
Michigan	183.1	184.6	185.6	819.2	847.6	847.3	635.2	674.7	636.9
Ann Arbor	4.7	4.7	4.6	33.9	35.3	35.5	53.5	55.9	54.6
Battle Creek	3.3	3.3	3.4	12.3	12.3	12.5	11.5	12.0	11.6
Benton Harbor	2.8	2.7	2.7	14.3	15.4	15.1	8.8	9.3	8.8
Detroit	107.2	107.4	106.2	461.9	477.6	477.9	246.6	263.6	246.0
Flint	5.9	5.9	5.9	31.4	31.2	31.5	26.3	27.5	26.3
Grand Rapids	13.8	14.2	14.3	87.8	70.1	70.3	31.9	34.9	32.5
Kalamazoo	4.6	5.2	5.2	23.4	23.7	23.7	18.2	19.3	18.3
Lansing-East Lansing	12.0	12.5	12.5	37.6	40.1	39.8	69.3	71.2	69.4
Muskegon	1.3	1.3	1.3	11.8	12.2	12.2	9.1	9.7	9.2
Saginaw-Bay City-Midland	6.2	6.3	6.3	33.8	36.0	36.0	22.2	23.6	22.4
Minnesota	121.5	123.1	123.1	485.2	504.7	505.6	322.5	334.5	331.5
Duluth	3.2	3.2	3.2	20.3	21.3	21.3	22.2	22.6	22.5
Minneapolis-St. Paul	95.0	96.8	96.5	329.1	337.1	336.6	178.2	181.2	180.0
Rochester	1.5	1.7	1.7	24.1	25.1	25.1	6.3	6.3	6.4
St. Cloud	2.4	2.4	2.5	14.6	15.3	15.2	13.4	13.2	13.4
Mississippi	36.7	39.0	39.0	140.1	143.4	143.1	196.1	211.8	201.2
Jackson	14.4	14.4	14.4	39.4	41.0	40.9	39.6	41.6	40.6
Missouri	134.0	134.9	135.2	505.8	517.3	513.7	353.1	357.4	358.2
Kansas City	57.7	58.3	58.5	169.6	173.8	172.8	111.0	113.8	114.0
St. Louis	73.8	73.1	72.9	288.2	294.1	292.9	142.3	144.3	143.3
Springfield	4.7	4.6	4.6	27.0	26.9	28.4	14.1	14.3	14.2
Montana	12.8	12.4	12.4	64.1	66.1	66.2	70.2	74.7	69.3
Nebraska	47.5	48.5	48.5	150.8	149.7	150.1	139.5	143.2	140.7
Lincoln	8.4	8.9	9.0	23.5	23.9	23.9	31.5	32.6	31.9
Omaha	28.4	28.8	28.9	80.7	83.1	83.6	45.5	48.6	46.7
Nevada	24.0	25.3	25.3	225.7	240.6	236.3	66.8	89.5	69.6
Las Vegas	14.7	15.9	16.0	137.5	148.5	146.2	34.2	35.5	35.6
Reno	8.9	8.9	6.9	54.9	57.6	56.4	18.9	17.4	17.4
New Hampshire	32.8	33.7	33.6	118.3	121.5	123.5	66.4	71.8	71.4
Nashua	4.0	4.0	3.9	18.0	18.4	18.6	7.0	7.4	7.5
Portsmouth-Dover-Rochester	6.8	6.8	6.8	19.7	20.9	20.7	25.6	25.9	25.6
New Jersey	230.7	238.1	238.6	882.8	918.7	915.0	550.7	566.1	567.0
Atlantic City	7.1	7.4	7.3	67.9	74.2	72.1	24.2	24.4	24.4
Bergen-Passaic	38.8	40.5	40.7	154.0	161.7	161.5	68.2	70.6	71.0
Camden	25.4	26.5	26.4	99.7	102.5	102.3	72.4	74.7	74.9
Jersey City	12.8	13.7	13.8	42.5	44.2	44.2	40.8	42.2	42.3
Middlesex-Somerset-Hunterdon	35.7	36.3	36.3	105.3	112.9	112.8	71.6	74.3	74.0
Monmouth-Ocean	18.0	18.2	18.2	85.7	90.6	90.4	61.3	63.8	63.8
Newark	77.8	79.7	80.1	250.6	261.0	261.0	135.4	137.3	137.2
Trenton	9.5	9.6	9.7	57.9	59.6	59.8	55.4	55.9	56.1

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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a
New Mexico	536.4	553.7	549.6	15.6	15.4	15.7	30.0	30.5	29.5
Albuquerque	234.7	239.8	240.0	.1	.1	.1	15.3	15.6	15.4
Las Cruces	41.2	43.1	42.7	.1	.1	.1	2.1	2.2	2.1
Santa Fe	54.9	56.4	55.7	.1	.1	.1	2.5	2.5	2.4
New York	8,219.5	8,354.1	8,373.9	5.8	6.3	5.9	338.4	363.9	352.0
Albany-Schenectady-Troy	414.5	421.7	421.2	.3	.4	.4	20.2	21.0	19.9
Binghamton	123.1	125.2	124.9	(^b)	(^b)	(^b)	5.2	5.8	5.1
Buffalo	446.4	455.1	454.1	.4	.3	.3	16.8	18.4	16.5
Elmira	39.9	42.1	42.4	(^b)	(^b)	(^b)	1.5	1.9	1.8
Nassau-Suffolk	1,157.7	1,189.4	1,171.9	.2	.2	.2	63.6	65.0	63.7
New York PMSA	4,188.0	4,218.2	4,233.3	1.2	1.2	1.2	158.8	165.4	163.8
New York City	3,649.3	3,675.0	3,689.5	.6	.6	.6	123.4	129.8	129.2
Niagara Falls	83.0	84.2	83.4	(^b)	(^b)	(^b)	3.6	3.7	3.2
Orange County	103.8	107.0	107.0	(^b)	(^b)	(^b)	6.0	7.0	6.7
Poughkeepsie	120.1	123.0	123.5	(^b)	(^b)	(^b)	6.3	7.0	6.9
Rochester	472.7	483.7	482.1	.8	.8	.7	19.3	20.0	18.9
Rockland County	99.8	100.6	101.0	(^b)	(^b)	(^b)	5.7	5.4	5.3
Syracuse	308.0	312.4	311.4	.2	.2	.2	18.5	17.7	16.9
Utica-Rome	123.3	126.0	125.4	.2	.2	.1	3.8	4.0	3.6
Westchester County	420.3	423.6	423.7	.3	.3	.3	27.9	28.4	27.5
North Carolina	2,930.5	3,018.0	3,012.2	5.0	5.0	5.1	161.4	170.5	169.6
Asheville	78.8	81.1	81.4	.1	.1	.1	4.2	4.4	4.4
Charlotte-Gastonia-Rock Hill	596.3	611.2	611.1	.4	.4	.4	35.6	39.1	39.1
Greensboro-Winston-Salem-High Point	473.0	478.9	477.0	.3	.3	.3	24.8	25.5	25.6
Raleigh-Durham	390.7	400.6	400.5	.4	.4	.4	21.5	22.5	22.1
North Dakota	254.4	259.9	258.8	4.3	4.2	3.9	9.0	10.3	8.5
Bismarck	38.8	37.8	37.8	.2	.2	.2	1.3	1.6	1.3
Fargo-Moorhead	72.5	75.4	75.1	(^b)	(^b)	(^b)	3.1	3.7	3.2
Grand Forks	30.7	31.8	31.3	(^b)	(^b)	(^b)	1.3	1.4	1.1
Ohio	4,676.9	4,647.2	4,790.5	20.5	20.4	20.0	182.9	206.2	195.3
Akron	271.9	280.6	279.2	.6	.6	.6	8.9	10.3	9.6
Canton	158.9	164.3	163.2	1.1	1.1	1.1	6.8	7.9	7.6
Cincinnati	694.9	719.6	717.7	.5	.6	.6	31.2	35.0	33.7
Cleveland	910.2	933.7	931.4	1.1	1.1	1.1	28.7	31.2	29.5
Columbus	676.4	702.7	701.4	1.0	1.0	1.0	26.2	31.4	30.3
Dayton-Springfield	435.9	451.3	449.2	.4	.4	.4	17.0	19.7	19.0
Toledo	288.6	299.7	298.1	.2	.2	.2	11.4	13.5	12.8
Youngstown-Warren	191.5	200.4	196.9	.6	.7	.6	7.3	8.8	8.0
Oklahoma	1,108.3	1,107.8	1,112.3	46.6	42.8	43.1	32.4	30.7	29.8
Enid	22.0	21.8	21.6	1.1	.9	.8	.8	.6	.6
Lawton	34.2	33.2	33.4	.2	.2	.2	1.1	1.2	1.2
Oklahoma City	404.1	400.6	398.9	11.3	10.2	10.1	12.6	11.8	11.4
Tulsa	289.9	291.8	291.8	15.4	15.0	15.1	9.5	9.3	9.1
Oregon	1,116.5	1,177.1	1,171.5	1.3	1.5	1.4	33.8	38.5	38.8
Eugene-Springfield	105.9	112.4	111.4	.1	.2	.2	3.0	3.4	3.3
Portland	571.9	589.2	589.5	.5	.5	.4	19.6	20.8	20.8
Salem	96.0	101.8	98.6	.1	.1	.1	3.1	3.4	3.3
Pennsylvania	5,016.5	5,120.0	5,118.1	30.4	29.8	29.4	223.4	250.6	240.5
Allentown-Bethlehem	273.6	280.2	281.0	.6	.6	.6	13.8	15.3	15.2
Alltoona	51.6	52.7	52.9	(^b)	(^b)	(^b)	2.6	2.8	2.7
Beaver County	50.8	52.5	52.4	(^b)	(^b)	(^b)	3.7	5.2	5.0
Erie	112.5	115.4	114.8	.2	.2	.2	3.3	3.9	3.5
Harrisburg-Lebanon-Carlisle	298.5	303.8	302.9	.3	.3	.3	12.2	13.1	12.3
Johnstown	78.4	79.9	79.9	3.6	3.5	3.5	2.7	2.9	2.7
Lancaster	182.4	188.2	187.7	.4	.4	.4	10.8	12.0	11.9
Philadelphia PMSA	2,204.0	2,219.3	2,223.5	1.1	1.1	1.1	108.8	117.0	115.3
Philadelphia City	793.0	785.4	787.8	(^b)	(^b)	(^b)	18.3	18.5	17.7
Pittsburgh	865.0	877.5	876.6	5.8	5.6	5.6	39.7	41.3	39.1

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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a
New Mexico	39.4	41.1	40.9	29.5	28.7	28.5	132.2	135.8	137.4
Albuquerque	20.2	20.4	20.4	12.6	12.3	12.4	61.8	63.5	64.5
Las Cruces	4.1	4.0	3.8	1.3	1.3	1.3	8.9	9.5	9.5
Santa Fe	1.7	1.8	1.8	1.3	1.3	1.2	11.0	11.4	11.5
New York	1,224.9	1,226.6	1,219.6	410.8	412.3	413.4	1,763.8	1,768.9	1,800.4
Albany-Schenectady-Troy	49.3	47.8	48.0	18.7	17.0	17.1	91.2	93.5	94.6
Binghamton	38.6	38.4	38.3	4.5	4.6	4.6	27.0	28.1	28.4
Buffalo	77.5	78.0	78.0	22.1	21.9	22.0	113.0	114.9	115.5
Elmira	8.3	9.0	9.1	1.4	1.4	1.5	11.0	10.9	11.2
Nassau-Suffolk	176.8	171.0	170.8	49.4	50.1	49.9	319.0	319.7	324.6
New York PMSA	460.4	461.1	454.8	243.7	242.8	243.3	790.5	784.0	798.3
New York City	376.9	377.8	371.6	217.4	216.5	216.9	659.2	654.1	665.7
Niagara Falls	24.0	24.0	23.6	3.9	3.7	3.7	19.6	20.2	20.4
Orange County	14.7	14.8	14.8	6.0	6.2	6.1	28.2	29.1	29.4
Poughkeepsie	30.0	30.0	30.2	3.3	3.4	3.4	25.2	25.3	25.9
Rochester	132.1	137.7	137.0	14.6	14.7	14.8	104.4	103.7	105.0
Rockland County	14.6	14.9	14.9	4.1	4.2	4.2	24.5	24.2	24.7
Syracuse	52.4	52.4	52.3	18.1	18.4	18.4	73.5	75.4	78.0
Utica-Rome	24.3	25.0	24.8	4.6	4.7	4.7	27.8	27.5	27.8
Westchester County	66.9	66.4	66.3	21.6	21.5	21.6	102.6	101.2	103.3
North Carolina	868.7	868.0	867.3	144.9	152.5	153.0	670.0	684.6	694.3
Asheville	19.6	19.4	19.6	3.8	3.7	3.8	19.1	19.1	19.3
Charlotte-Gastonia-Rock Hill	156.4	154.2	153.7	49.5	49.9	50.0	146.0	148.5	149.8
Greensboro-Winston-Salem-High Point	153.5	151.2	150.7	28.0	28.1	28.2	107.5	107.6	107.8
Raleigh-Durham	59.0	59.5	60.1	17.0	16.6	16.4	85.6	84.8	86.4
North Dakota	15.8	16.7	16.6	16.3	17.1	17.0	88.8	69.2	69.7
Bismarck	1.9	2.1	2.1	2.7	2.6	2.6	10.0	9.8	9.9
Fargo-Moorhead	4.7	4.9	4.8	4.7	5.2	5.2	21.5	22.0	22.2
Grand Forks	1.7	1.8	1.8	1.6	1.6	1.6	8.5	8.7	8.7
Ohio	1,102.9	1,114.6	1,114.3	209.6	212.4	212.4	1,140.8	1,163.2	1,178.9
Akron	67.0	68.0	68.2	13.1	13.2	13.1	67.9	69.4	70.2
Canton	43.9	44.2	44.2	5.7	6.2	6.2	40.7	41.2	41.5
Cincinnati	145.6	145.9	146.4	36.1	38.1	38.3	177.1	182.7	185.1
Cleveland	203.3	206.1	207.0	41.6	41.7	41.9	224.1	226.4	230.6
Columbus	102.3	104.4	104.7	28.8	29.3	29.6	175.9	180.6	183.7
Dayton-Springfield	103.2	103.9	104.0	15.4	15.9	16.0	101.3	103.7	105.4
Toledo	62.5	62.7	62.6	14.0	13.9	14.0	72.8	74.7	78.2
Youngstown-Warren	49.4	51.5	49.6	7.8	7.9	7.9	50.0	52.1	52.6
Oklahoma	155.0	159.0	159.1	61.8	61.4	60.9	271.3	268.3	271.1
Enid	1.6	1.6	1.6	2.0	2.2	2.2	6.3	6.0	6.2
Lawton	3.3	3.6	3.6	1.2	1.2	1.2	9.0	8.7	8.6
Oklahoma City	47.1	48.2	48.0	19.2	19.2	19.2	102.0	99.5	100.3
Tulsa	47.5	48.9	48.5	23.5	24.1	24.3	71.1	69.2	70.2
Oregon	205.2	213.3	210.5	60.1	61.0	60.4	288.7	307.6	310.7
Eugene-Springfield	19.3	20.5	19.8	4.3	4.4	4.4	27.0	28.7	28.9
Portland	97.2	96.5	96.2	35.7	36.0	36.2	152.0	156.0	158.4
Salem	12.5	15.4	13.3	3.0	3.0	3.1	22.5	23.0	23.0
Pennsylvania	1,051.7	1,055.6	1,054.5	249.7	249.3	249.4	1,166.8	1,168.9	1,182.8
Allentown-Bethlehem	75.5	76.7	76.4	13.8	13.6	13.8	62.2	62.1	63.3
Altoona	11.3	11.3	11.2	4.6	4.6	4.7	13.4	13.8	14.1
Beaver County	9.8	9.0	9.1	5.2	5.3	5.3	11.2	10.9	11.0
Erie	34.8	35.1	34.9	3.9	3.7	3.6	24.7	24.5	24.9
Harrisburg-Lebanon-Carlisle	53.1	52.6	52.7	18.5	18.3	18.3	68.8	69.2	69.6
Johnstown	12.9	13.3	13.2	5.2	5.3	5.3	16.4	17.0	17.0
Lancaster	59.4	59.3	59.2	7.0	7.3	7.4	44.4	46.0	46.3
Philadelphia PMSA	378.0	371.7	371.7	99.6	98.1	98.6	522.6	528.1	528.4
Philadelphia City	96.6	94.4	94.4	45.3	44.2	44.5	155.2	158.5	160.6
Pittsburgh	125.3	125.2	125.0	44.5	42.8	42.6	220.6	221.3	224.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a
New Mexico	27.2	27.8	27.9	122.6	126.1	127.4	139.9	148.3	142.3
Albuquerque	15.1	15.1	15.2	63.9	64.8	65.2	45.7	48.0	46.8
Las Cruces	1.6	1.8	1.8	6.5	7.0	7.2	16.6	17.2	16.9
Santa Fe	2.0	1.9	1.9	14.3	14.5	14.5	22.0	22.9	22.3
New York	802.0	800.1	801.4	2,245.3	2,326.2	2,328.1	1,428.4	1,449.8	1,453.1
Albany-Schenectady-Troy	22.9	23.6	23.6	102.4	105.6	105.1	111.5	112.6	112.5
Binghamton	4.0	4.1	4.1	22.0	22.6	22.5	21.6	21.7	21.6
Buffalo	27.1	28.0	28.3	114.0	117.9	117.5	75.4	75.8	75.8
Elmira	1.4	1.4	1.4	9.8	10.4	10.4	6.4	7.0	7.0
Nassau-Suffolk	76.8	78.4	78.6	287.9	297.7	297.0	184.1	187.3	187.1
New York PMSA	588.7	576.7	577.2	1,277.0	1,309.8	1,314.6	667.7	677.2	680.1
New York City	554.9	541.7	542.1	1,132.4	1,162.1	1,168.0	584.5	592.6	595.5
Niagara Falls	1.9	2.0	2.0	16.8	17.4	17.3	13.1	13.0	13.0
Orange County	4.0	4.1	4.1	22.0	22.4	22.4	22.8	23.4	23.4
Poughkeepsie	4.5	4.9	5.0	25.9	27.4	27.2	25.0	25.0	24.9
Rochester	21.8	22.3	22.4	112.8	117.7	116.6	66.9	66.8	66.8
Rockland County	5.2	5.5	5.4	24.1	24.7	24.8	21.5	21.7	21.7
Syracuse	19.4	19.5	19.5	75.7	76.7	75.9	52.1	52.1	52.1
Utica-Rome	6.8	7.2	7.2	26.5	27.5	27.2	29.4	30.0	30.1
Westchester County	27.8	26.8	26.8	115.3	117.9	116.7	57.9	59.0	59.1
North Carolina	129.5	133.5	133.6	494.7	526.8	526.4	456.4	477.1	462.9
Asheville	2.6	2.7	2.6	17.5	18.5	18.5	11.9	13.2	13.1
Charlotte-Gastonia-Rock Hill	36.7	36.7	36.8	108.0	114.2	114.9	63.7	68.2	66.4
Greensboro-Winston-Salem-High Point	23.1	23.8	23.8	81.6	85.3	84.9	54.3	57.1	55.7
Raleigh-Durham	23.3	23.7	23.8	96.0	102.0	102.3	87.8	91.1	89.0
North Dakota	12.4	12.3	12.3	61.7	64.2	64.4	66.1	65.9	66.4
Bismarck	1.6	1.6	1.6	10.6	11.1	11.1	8.5	8.6	8.8
Fargo-Moorhead	4.5	4.5	4.6	19.4	20.2	20.3	14.6	14.9	14.8
Grand Forks	1.2	1.2	1.2	6.8	7.0	6.9	9.6	9.9	10.0
Ohio	246.7	253.1	253.5	1,064.7	1,107.7	1,105.3	708.9	769.6	710.7
Akron	10.6	10.8	10.8	58.8	60.7	60.9	45.0	47.7	45.8
Canton	6.5	6.3	6.3	35.4	37.0	36.9	18.9	20.5	19.3
Cincinnati	41.3	42.8	43.1	173.3	178.8	179.9	89.8	95.7	90.7
Cleveland	55.1	57.3	57.4	237.3	246.3	246.3	119.0	123.6	117.5
Columbus	58.3	59.7	59.7	158.3	166.6	166.2	123.5	129.6	126.1
Dayton-Springfield	17.8	18.3	18.4	106.3	111.5	111.4	74.5	77.8	74.7
Toledo	11.5	11.4	11.4	72.5	76.2	76.1	43.6	47.0	44.8
Youngstown-Warren	8.2	8.3	8.3	43.8	45.3	45.4	24.6	25.9	24.5
Oklahoma	58.0	56.2	56.5	231.6	239.1	237.2	251.6	250.3	254.6
Enid	1.0	1.0	1.0	5.7	5.8	5.7	3.7	3.5	3.5
Lawton	1.5	1.5	1.5	5.9	5.5	5.7	12.0	11.3	11.4
Oklahoma City	24.3	23.5	23.4	90.6	90.5	88.5	97.0	97.7	98.0
Tulsa	17.3	17.2	17.3	70.4	72.8	72.0	35.2	35.3	35.3
Oregon	71.9	74.1	74.6	245.9	262.3	261.4	209.6	218.8	213.7
Eugene-Springfield	4.6	4.8	4.9	24.0	26.0	25.8	23.6	24.4	24.1
Portland	47.4	48.8	49.0	140.2	147.5	147.1	79.3	83.1	81.4
Salem	5.5	5.8	5.9	19.7	20.5	20.4	29.6	30.4	29.5
Pennsylvania	292.0	298.2	298.3	1,299.6	1,359.1	1,357.2	700.9	708.5	706.0
Allentown-Bethlehem	11.5	11.7	11.7	66.2	69.7	69.8	30.0	30.3	30.2
Altoona	1.6	1.7	1.7	10.8	11.1	11.2	7.3	7.4	7.3
Beaver County	1.8	1.9	1.9	11.3	11.9	11.8	7.8	8.3	8.3
Erie	5.4	5.5	5.4	26.4	28.2	27.8	13.8	14.3	14.3
Harrisburg-Lebanon-Carlisle	17.4	19.1	19.0	61.1	63.3	63.4	67.1	67.7	67.3
Johnstown	4.7	4.7	4.7	20.1	20.5	20.6	12.8	12.7	12.9
Lancaster	6.8	7.2	7.2	37.4	39.4	38.8	16.2	16.6	16.5
Philadelphia PMSA	162.9	163.5	163.3	625.9	635.3	639.4	305.1	304.5	305.7
Philadelphia City	73.7	71.6	71.7	258.4	255.5	255.5	145.5	142.7	143.2
Pittsburgh	53.4	54.0	54.4	269.7	278.5	277.6	106.0	108.8	107.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Pennsylvania—Continued									
Reading	151.5	158.4	158.7	(¹)	(¹)	(¹)	6.7	7.6	7.3
Scranton-Wilkes-Barre	293.8	301.4	300.8	0.6	0.6	0.6	11.7	13.8	12.7
Williamsport	52.1	54.3	53.6	(¹)	(¹)	(¹)	1.8	2.0	1.8
York	173.7	180.8	180.1	.4	.5	.4	10.2	12.1	11.9
Rhode Island	458.3	463.4	461.4	.1	.1	.1	19.9	21.2	20.7
Pawtucket-Woonsocket-Attleboro	134.4	136.7	135.9	.1	.1	.1	5.0	5.1	5.0
Providence	325.2	327.2	325.8	.1	.1	.1	14.8	15.5	15.0
South Carolina	1,422.1	1,470.4	1,465.4	1.6	1.6	1.6	86.7	91.6	90.9
Charleston	189.7	198.4	198.4	(¹)	(¹)	(¹)	13.5	14.2	14.1
Columbia	227.9	235.4	235.6	(¹)	(¹)	(¹)	13.5	14.5	14.3
Greenville-Spartanburg	312.9	324.6	323.8	(¹)	(¹)	(¹)	21.7	22.4	22.5
South Dakota	256.3	261.6	260.1	2.4	2.5	2.5	9.2	10.4	9.2
Rapid City	34.5	35.0	35.4	.2	.3	.3	2.0	2.1	2.1
Sioux Falls	64.7	67.2	66.6	(¹)	(¹)	(¹)	2.6	3.2	2.9
Tennessee	2,056.7	2,089.4	2,079.3	6.6	6.3	6.1	101.5	99.9	97.8
Chattanooga	191.4	196.0	196.2	.8	.8	.8	8.8	9.5	9.4
Johnson City-Kingsport-Bristol	165.4	167.3	168.2	.3	.3	.3	7.5	8.8	8.6
Knoxville	249.5	252.1	249.5	1.9	1.8	1.8	12.0	11.4	10.7
Memphis	432.1	436.9	437.5	.1	.2	.1	20.6	20.2	20.1
Nashville	470.1	464.8	464.0	.7	.6	.6	26.8	24.1	24.4
Texas	6,580.8	6,680.7	6,693.7	184.7	178.1	177.2	337.2	315.0	309.4
Abilene	49.1	50.6	50.8	2.0	2.0	2.0	2.0	2.2	2.2
Amarillo	78.7	77.3	77.2	1.3	1.2	1.2	3.7	3.7	3.4
Austin	354.0	352.0	350.2	.8	.7	.7	16.4	15.0	14.7
Beaumont-Port Arthur	129.1	130.6	130.5	1.5	1.6	1.5	7.4	8.6	8.2
Brazoria	57.8	59.4	60.3	1.9	1.6	1.6	5.9	7.2	7.5
Brownsville-Harlingen	66.4	67.5	68.2	.1	.1	.1	2.1	2.1	2.2
Bryan-College Station	48.6	50.4	49.9	.7	.6	.6	2.2	2.4	2.5
Corpus Christi	124.5	126.4	126.1	3.9	4.3	4.4	6.3	6.2	6.2
Dallas	1,342.1	1,340.4	1,340.6	18.4	17.8	17.7	57.5	47.4	46.2
El Paso	167.6	191.3	191.5	.1	.1	.1	9.4	9.0	8.8
Ft. Worth-Arlington	518.9	517.3	518.6	3.6	3.6	3.6	21.4	18.8	18.9
Galveston-Texas City	70.2	69.2	69.2	.6	.5	.5	3.3	3.2	3.3
Houston	1,401.3	1,439.7	1,447.9	63.2	64.9	64.7	81.4	84.8	85.1
Killeen-Temple	70.1	71.5	71.3	.1	.1	.1	3.4	3.7	3.6
Laredo	36.0	38.4	38.4	2.1	1.9	1.9	1.3	1.1	1.1
Longview-Marshall	65.1	65.6	65.9	3.6	3.5	3.6	3.1	3.4	3.4
Lubbock	92.9	94.5	94.6	.4	.4	.4	3.2	3.4	3.4
McAllen-Edinburg-Mission	91.9	95.4	96.4	.9	.9	.9	3.9	4.1	4.0
Midland	44.4	45.2	45.2	10.1	9.6	9.5	1.1	1.2	1.2
Odessa	43.9	42.9	43.1	6.3	5.8	5.7	2.2	2.0	2.0
San Angelo	37.0	36.8	36.9	.5	.4	.4	1.5	1.5	1.5
San Antonio	507.0	515.4	518.5	2.6	2.4	2.4	29.7	24.6	24.5
Sherman-Denison	38.0	37.3	37.4	.1	.1	.1	1.6	1.6	1.6
Texarkana	46.0	45.2	45.8	.1	.1	.1	2.2	1.7	1.7
Tyler	61.5	61.7	61.7	1.9	1.8	1.8	2.3	2.2	2.2
Victoria	27.5	27.6	27.2	1.5	1.2	1.1	1.7	1.6	1.6
Waco	78.2	80.0	80.6	.1	.1	.1	3.3	3.7	3.7
Wichita Falls	50.3	51.2	51.5	1.9	1.9	1.9	1.7	2.1	2.1
Utah	652.9	676.8	678.1	8.5	8.0	8.1	25.3	26.5	24.9
Provo-Orem	79.4	83.8	83.5	(¹)	(¹)	(¹)	2.5	2.9	2.8
Salt Lake City-Ogden	456.5	464.0	465.7	2.7	2.8	2.8	18.2	17.3	16.5
Vermont	252.3	258.1	259.7	.5	.6	.5	17.6	19.4	19.3
Barre-Montpelier	34.1	36.1	37.1	.2	.2	.2	2.0	2.8	2.6
Burlington	76.8	80.2	80.1	(¹)	(¹)	(¹)	5.1	5.5	5.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a
Pennsylvania—Continued									
Reading	49.0	50.4	50.1	8.6	7.3	7.3	34.0	34.7	35.3
Scranton-Wilkes-Barre	71.3	71.0	70.8	15.6	16.3	16.3	69.0	69.0	69.9
Williamsport	16.9	16.6	16.2	1.9	1.9	1.9	12.0	12.7	12.7
York	60.2	61.8	61.6	7.5	8.3	8.2	41.9	42.7	42.6
Rhode Island									
Pawtucket-Woonsocket-Attleboro	116.6	117.2	115.7	15.7	15.7	15.7	107.0	107.8	108.9
Providence	53.8	54.3	53.8	3.5	3.5	3.5	33.4	33.9	34.2
	72.8	73.0	72.1	12.2	12.2	12.2	73.0	73.4	74.1
South Carolina									
Charleston	378.6	379.4	380.6	60.6	62.0	62.2	325.3	333.9	338.6
Columbia	19.7	20.7	20.9	9.9	10.6	10.7	47.7	48.8	47.1
Greenville-Spartanburg	29.1	30.4	30.5	10.3	10.6	10.8	50.4	50.6	51.3
	101.1	102.0	101.9	11.4	11.9	12.1	73.4	75.0	76.2
South Dakota									
Rapid City	29.8	30.1	29.4	12.4	12.6	13.0	67.3	68.4	68.7
Sioux Falls	3.2	3.2	3.2	1.8	1.7	1.8	9.8	10.0	10.1
	8.7	8.3	8.0	4.6	4.7	4.7	17.5	18.0	18.0
Tennessee									
Chattanooga	501.7	500.3	501.8	105.0	108.9	108.4	489.8	492.0	496.6
Johnson City-Kingsport-Bristol	48.5	46.9	46.7	8.3	8.5	8.5	45.0	45.3	45.6
Knoxville	53.7	55.3	55.8	8.1	6.1	6.2	37.7	37.3	37.5
Memphis	50.9	51.0	51.2	10.0	10.1	9.9	62.4	65.0	63.7
Nashville	52.3	53.5	52.8	39.8	40.8	41.1	121.9	121.3	123.5
	68.2	68.0	68.4	24.1	24.1	23.2	116.6	112.2	111.9
Texas									
Abilene	943.3	955.9	954.3	388.4	393.9	395.3	1,887.1	1,876.4	1,893.2
Amarillo	4.8	4.8	4.8	2.5	2.4	2.5	13.7	14.2	14.5
Austin	9.8	9.1	9.0	5.7	5.8	5.6	23.3	23.4	23.6
Beaumont-Port Arthur	39.7	39.9	39.8	10.7	10.7	10.5	80.4	77.4	77.9
Brazoria	24.8	25.0	24.9	9.8	9.7	9.6	32.2	32.0	32.4
Brownsville-Harlingen	15.5	15.8	15.8	2.3	2.2	2.2	11.2	11.1	11.3
Bryan-College Station	10.1	10.2	10.3	3.1	3.1	3.2	17.6	17.8	18.2
Corpus Christi	3.2	3.2	3.3	1.8	1.7	1.7	9.7	9.9	9.6
Dallas	11.2	11.2	11.2	6.9	6.8	6.8	32.3	32.7	32.3
El Paso	222.8	222.2	221.2	90.1	93.0	93.0	353.4	355.6	359.3
Ft. Worth-Arlington	37.0	37.8	37.9	10.3	10.8	11.0	47.5	47.5	47.9
Galveston-Texas City	117.4	119.2	119.3	30.4	31.3	31.6	139.1	133.5	134.3
Houston	8.5	8.5	8.5	5.0	4.4	4.4	14.1	14.2	14.2
Killeen-Temple	149.0	152.8	153.2	97.9	100.3	100.4	361.0	365.4	372.4
Laredo	7.9	8.5	8.3	2.7	2.7	2.8	16.4	16.5	16.8
Longview-Marshall	1.7	1.9	1.7	4.6	5.2	5.1	10.4	11.1	11.5
Lubbock	15.7	15.5	15.5	3.1	3.1	3.1	16.8	17.0	17.3
McAllen-Edinburg-Mission	7.2	7.8	7.9	5.1	5.1	5.1	27.9	28.0	28.3
Midland	12.7	12.7	13.2	2.8	3.0	3.0	27.5	29.4	29.8
Odessa	2.9	2.9	2.9	2.1	2.2	2.2	10.6	10.6	10.7
San Angelo	3.7	3.7	3.8	2.2	2.1	2.1	12.9	12.8	13.1
San Antonio	5.7	5.5	5.5	3.2	3.0	3.0	9.9	9.8	9.8
Sherman-Denison	46.6	47.0	46.9	18.1	18.0	18.0	133.6	135.8	137.1
Texarkana	11.0	10.7	10.9	2.0	1.9	1.9	8.4	8.3	8.4
Tyler	7.4	7.5	7.5	1.7	1.9	1.9	10.9	10.9	11.1
Victoria	10.8	10.5	10.3	2.8	2.7	2.7	16.7	17.0	17.1
Waco	3.0	3.0	2.9	1.5	1.5	1.4	8.0	8.1	8.2
Wichita Falls	14.6	15.3	15.4	3.3	3.4	3.4	19.7	19.3	19.7
	8.4	8.2	8.2	2.6	2.6	2.6	12.4	12.5	12.7
Utah									
Provo-Orem	95.8	100.2	100.4	38.4	40.7	41.0	157.8	160.4	163.1
Salt Lake City-Ogden	12.2	14.3	14.4	3.1	2.6	2.7	17.3	17.7	16.1
	62.6	64.1	63.8	29.3	30.3	30.5	117.4	116.4	118.0
Vermont									
Barre-Montpelier	50.2	49.8	49.6	10.4	10.5	10.4	59.0	60.5	61.1
Burlington	4.7	4.9	5.0	.9	.9	.9	7.4	7.7	6.0
	16.8	16.6	16.4	3.0	3.0	3.0	17.9	18.8	18.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a
Pennsylvania—Continued									
Reading	7.6	8.2	8.2	30.1	32.4	32.7	17.3	17.8	17.8
Scranton—Wilkes-Barre	12.8	12.9	13.0	70.6	75.1	74.9	41.8	42.7	42.8
Williamsport	2.3	2.4	2.4	10.1	11.2	11.1	7.1	7.5	7.5
York	5.0	5.2	5.3	30.3	31.3	31.5	18.2	18.9	18.6
Rhode Island	25.5	26.3	26.3	114.3	116.4	115.3	59.2	58.7	58.7
Pawtucket—Woonsocket—Attleboro	3.6	3.7	3.7	24.8	25.9	25.4	10.2	10.2	10.4
Providence	21.4	21.9	21.9	85.7	86.6	85.8	45.2	44.5	44.6
South Carolina	64.1	66.4	66.3	243.1	260.0	259.1	262.2	275.5	266.1
Charleston	8.3	8.8	8.9	40.1	42.3	42.6	50.4	55.1	54.0
Columbia	18.0	18.9	19.2	43.7	45.5	45.7	62.5	64.6	63.7
Greenville—Spartanburg	11.9	12.1	12.1	53.7	57.2	57.1	39.4	43.7	41.6
South Dakota	14.2	14.7	14.7	60.9	62.7	62.6	60.1	60.0	60.1
Rapid City	1.7	1.6	1.6	8.9	8.9	9.1	7.0	7.2	7.3
Sioux Falls	8.0	6.5	6.5	17.9	18.9	19.0	7.4	7.4	7.4
Tennessee	102.5	103.5	103.5	413.8	425.9	426.4	335.9	352.6	338.7
Chattanooga	11.7	11.8	11.9	36.5	38.4	38.4	33.9	34.8	34.9
Johnson City—Kingsport—Bristol	5.4	5.6	5.6	30.1	31.6	32.0	24.7	24.3	24.2
Knoxville	9.8	9.6	9.8	51.4	53.0	52.4	51.2	50.2	50.0
Memphis	24.7	25.1	25.1	99.3	101.4	101.2	73.6	74.4	73.6
Nashville	33.4	33.2	33.4	112.2	112.4	112.1	88.3	70.2	70.0
Texas	439.5	439.2	440.5	1,450.1	1,516.1	1,515.6	1,170.5	1,206.1	1,208.0
Abilene	2.7	2.6	2.6	13.1	13.2	13.0	8.5	9.2	9.2
Amarillo	4.4	4.3	4.2	16.2	16.3	16.6	14.3	13.5	13.4
Austin	24.8	24.5	24.2	64.0	63.6	63.4	97.2	100.2	99.0
Beaumont—Port Arthur	5.3	5.2	5.3	27.9	27.9	28.0	20.2	20.6	20.6
Brazoria	2.0	1.9	2.0	8.0	8.3	8.4	11.0	11.3	11.5
Brownsville—Harlingen	3.6	3.5	3.5	13.8	14.5	14.4	16.1	16.3	16.4
Bryan—College Station	1.7	1.6	1.6	8.5	8.8	8.6	21.0	22.2	22.0
Corpus Christi	6.9	7.1	7.1	29.0	29.7	29.8	28.0	28.4	28.3
Dallas	131.4	126.3	126.1	316.9	326.1	324.9	151.6	152.0	152.2
El Paso	9.6	9.0	9.0	34.7	36.7	36.5	39.0	40.4	40.3
Ft. Worth—Arlington	27.6	26.4	26.5	112.0	115.3	115.1	67.4	69.2	69.3
Galveston—Texas City	4.1	4.0	4.0	13.9	14.4	14.4	20.7	20.0	19.9
Houston	98.3	96.7	96.7	381.9	379.0	379.4	188.6	195.8	196.0
Killeen—Temple	2.9	3.1	3.0	15.0	15.6	15.6	21.7	21.3	21.3
Laredo	1.6	1.6	1.5	5.8	6.2	6.1	8.5	9.4	9.5
Longview—Marshall	2.7	2.7	2.7	11.6	11.9	11.8	8.5	8.5	8.5
Lubbock	5.2	5.5	5.6	21.9	22.5	22.5	22.0	21.8	21.6
McAllen—Edinburg—Mission	3.6	3.8	3.8	14.7	15.2	15.3	25.6	28.3	26.4
Midland	2.5	2.5	2.5	8.6	8.8	8.8	6.5	7.4	7.4
Odessa	1.7	1.7	1.7	7.2	7.3	7.2	7.7	7.5	7.5
San Angelo	1.8	1.8	1.8	7.7	7.9	7.9	6.7	7.1	7.0
San Antonio	39.7	40.6	40.7	120.5	127.0	127.0	116.0	120.0	121.9
Sherman—Denison	1.7	1.8	1.7	8.9	8.6	8.6	4.3	4.3	4.2
Texarkana	1.9	1.8	1.9	9.3	9.3	9.4	12.5	12.0	12.2
Tyler	3.7	3.6	3.7	14.3	14.7	14.7	9.0	9.2	9.2
Victoria	1.5	1.5	1.5	5.7	6.0	5.9	4.6	4.7	4.6
Waco	4.6	4.7	4.7	20.0	20.8	20.9	12.6	12.7	12.7
Wichita Falls	2.3	2.3	2.3	11.5	11.6	11.6	9.5	10.0	10.1
Utah	33.8	32.9	32.9	151.0	162.3	163.4	142.3	145.8	144.3
Provo—Orem	2.4	2.3	2.3	28.4	30.0	29.5	13.5	13.8	13.7
Salt Lake City—Ogden	28.0	27.4	27.5	103.6	110.7	111.9	94.7	95.0	94.7
Vermont	12.1	12.4	12.5	61.5	61.6	63.6	41.0	43.3	42.7
Barre—Montpelier	3.0	3.0	3.0	7.8	8.0	8.7	8.3	8.6	8.7
Burlington	3.6	3.9	3.8	18.2	19.9	19.9	12.2	12.5	12.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Virginia	2,744.7	2,857.4	2,871.0	15.8	14.9	14.9	184.1	202.0	201.0
Bristol	32.2	34.1	34.2	.1	.1	.1	1.0	1.0	1.0
Charlottesville	68.6	70.7	70.6	.1	.1	.1	3.6	4.0	4.0
Danville	40.8	42.5	42.2	.1	.1	.1	1.8	2.0	2.0
Lynchburg	73.1	74.0	73.9	.1	.1	.1	3.8	3.5	3.4
Norfolk-Virginia Beach-Newport News	559.3	576.5	575.8	.1	.1	.1	38.9	41.0	40.8
Northern Virginia	731.4	768.2	773.9	.5	.5	.5	53.8	60.5	60.0
Richmond-Petersburg	448.6	463.3	465.7	.5	.7	.7	30.1	31.5	31.6
Roanoke	121.0	120.9	120.3	.2	.2	.2	7.6	8.0	7.8
Washington	1,880.4	1,974.2	1,971.2	3.1	3.4	3.4	86.7	102.7	98.6
Seattle	961.7	1,009.9	1,015.4	.5	.6	.6	47.5	53.9	52.6
West Virginia	607.3	624.5	612.3	36.1	34.6	34.2	22.6	25.4	24.2
Charleston	107.1	110.2	108.9	2.1	2.1	2.0	3.9	4.5	4.2
Huntington-Ashland	103.9	106.9	105.9	1.3	1.4	1.4	4.0	4.9	4.8
Parkersburg-Marietta	60.3	61.4	60.8	.6	.6	.6	2.7	3.1	3.2
Wheeling	58.9	60.7	59.3	2.3	2.4	2.4	2.0	2.4	2.2
Wisconsin	2,121.4	2,182.3	2,184.9	1.9	2.3	2.0	68.9	76.9	73.1
Appleton-Oshkosh-Neenah	147.2	154.4	151.6	(¹)	(¹)	(¹)	6.6	6.7	6.2
Eau Claire	55.6	59.8	59.0	(¹)	(¹)	(¹)	1.3	1.8	1.8
Green Bay	96.6	101.4	100.9	(¹)	(¹)	(¹)	3.1	3.7	3.5
Janesville-Beloit	55.9	58.6	58.3	(¹)	(¹)	(¹)	1.3	1.5	1.5
Kenosha	42.8	42.0	42.9	(¹)	(¹)	(¹)	.9	1.0	1.0
La Crosse	53.8	55.9	56.4	(¹)	(¹)	(¹)	1.4	2.4	1.8
Madison	203.5	209.6	210.6	(¹)	(¹)	(¹)	7.5	6.6	6.6
Milwaukee	712.5	732.4	735.0	(¹)	(¹)	(¹)	21.8	23.1	22.6
Racine	71.5	72.4	73.4	(¹)	(¹)	(¹)	1.9	2.1	2.0
Wausau	46.6	48.9	48.1	(¹)	(¹)	(¹)	1.5	1.6	1.6
Wyoming	177.2	179.5	177.2	17.8	17.8	17.5	8.2	8.4	7.2
Puerto Rico	789.1	810.5	813.6	.8	.8	.8	35.7	38.6	38.5
Caguas	51.0	51.8	52.2	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Mayaguez	56.6	57.3	58.4	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Ponce	50.7	51.4	51.6	.2	.2	.2	3.1	3.7	3.6
San Juan	481.0	496.8	499.6	.4	.4	.4	26.5	27.7	27.7
Virgin Islands	40.2	39.9	40.4	(¹)	(¹)	(¹)	2.0	1.7	1.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Virginia	430.6	429.6	428.8	145.3	150.5	152.6	643.6	663.8	672.9
Bristol	10.4	11.7	11.8	1.1	1.1	1.1	6.4	6.6	6.8
Charlottesville	6.9	8.8	8.7	2.3	2.3	2.4	14.1	14.6	14.9
Danville	16.8	17.8	17.4	1.1	1.0	1.0	8.7	9.6	9.7
Lynchburg	23.4	23.2	23.0	2.9	2.7	2.8	15.1	16.0	16.1
Norfolk-Virginia Beach-Newport News	66.6	69.0	68.3	25.9	25.6	26.2	139.6	143.6	143.9
Northern Virginia	35.3	34.9	34.7	50.8	56.6	57.5	189.0	172.1	176.2
Richmond-Petersburg	82.8	82.9	82.9	23.6	23.6	23.9	110.5	114.3	116.4
Roanoke	19.7	19.2	18.9	6.6	6.5	6.5	33.5	33.5	33.4
Washington	323.3	341.3	336.7	100.4	105.8	105.6	469.5	488.8	494.0
Seattle	189.4	201.7	203.1	59.9	61.8	62.0	236.6	246.4	251.7
West Virginia	65.8	67.7	67.1	36.3	36.8	36.6	145.8	145.3	146.6
Charleston	11.0	11.1	11.1	6.6	6.6	6.6	29.0	28.8	29.3
Huntington-Ashland	19.3	19.8	19.6	7.7	7.7	7.8	27.5	27.3	27.5
Parkersburg-Marietta	13.9	14.2	14.3	2.1	2.1	2.1	15.0	14.9	14.9
Wheeling	7.0	7.0	6.9	3.3	3.2	3.3	16.3	16.0	16.1
Wisconsin	533.5	556.0	553.3	98.8	100.0	99.7	513.3	524.3	527.2
Appleton-Oshkosh-Neenah	50.8	53.1	52.7	5.4	5.6	5.4	32.6	34.5	34.2
Eau Claire	10.0	11.0	10.9	3.5	3.6	4.1	16.7	17.4	17.1
Green Bay	24.8	26.0	25.8	8.4	6.6	6.3	26.0	26.5	27.1
Janesville-Beloit	17.9	18.5	18.2	2.2	2.3	2.3	13.7	14.2	13.7
Kenosha	15.2	14.1	13.9	1.4	1.3	1.3	9.0	9.2	9.8
La Crosse	11.3	11.1	11.3	2.5	2.6	2.9	14.8	15.1	15.5
Madison	23.1	23.9	23.9	7.2	7.6	7.6	47.9	49.0	50.5
Milwaukee	171.9	178.9	178.3	35.9	35.9	36.4	167.1	170.4	174.9
Racine	24.7	25.2	25.2	2.4	2.3	2.2	17.5	17.5	18.2
Wausau	12.9	13.8	13.8	2.8	3.0	2.9	11.6	12.0	11.5
Wyoming	6.3	6.6	6.4	12.7	12.6	12.9	40.3	40.2	40.1
Puerto Rico	154.7	156.3	156.2	15.4	15.1	15.0	147.8	143.1	145.9
Caguas	15.4	15.5	15.5	(¹)	(¹)	(¹)	10.0	10.3	10.5
Mayaguez	20.6	20.3	20.5	(¹)	(¹)	(¹)	6.3	6.0	6.9
Ponce	9.6	9.3	9.5	(¹)	(¹)	(¹)	6.6	6.2	6.4
San Juan	65.9	67.6	67.6	12.6	12.5	12.4	103.1	101.4	103.0
Virgin Islands	2.2	2.3	2.3	2.7	2.5	2.6	9.7	9.1	9.5

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	Finance, insurance, and real estate			Services			Government		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Virginia	145.3	150.3	151.0	635.6	689.2	691.5	544.5	557.1	558.1
Bristol	1.3	1.4	1.4	4.9	5.0	5.0	5.1	5.2	5.2
Charlottesville	3.6	3.7	3.6	11.9	12.3	12.2	24.1	25.1	24.7
Danville	1.2	1.2	1.2	5.8	5.6	5.5	5.3	5.2	5.3
Lynchburg	3.8	4.2	4.2	14.3	14.6	14.6	10.0	9.7	9.7
Norfolk-Virginia Beach-Newport News	27.1	27.9	27.7	131.1	140.2	139.8	127.9	128.7	129.0
Northern Virginia	47.4	49.6	49.7	228.3	247.7	248.9	146.5	146.3	146.4
Richmond-Petersburg	35.9	37.4	37.6	93.5	97.3	97.6	91.7	95.4	94.8
Roanoke	8.3	8.4	8.8	27.6	27.6	27.6	15.4	15.5	15.3
Washington	107.2	109.3	110.1	429.5	453.3	454.2	360.7	369.8	366.6
Seattle	68.0	69.7	69.9	225.1	238.8	239.2	131.5	137.0	136.3
West Virginia	24.5	24.4	24.4	125.1	128.1	127.8	131.1	142.2	131.4
Charleston	6.1	6.1	6.1	25.5	25.5	25.6	20.9	23.5	22.0
Huntington-Ashland	3.9	3.9	3.9	20.1	22.1	22.2	20.1	19.8	18.7
Parkersburg-Marietta	2.3	2.3	2.3	13.7	13.4	13.4	10.0	10.8	10.0
Wheeling	2.7	2.6	2.6	15.7	16.0	16.0	9.6	11.1	9.8
Wisconsin	113.3	115.3	116.2	460.8	473.4	473.0	332.9	344.1	340.4
Appleton-Oshkosh-Neenah	7.2	7.6	7.4	27.5	28.6	28.1	16.9	18.0	17.3
Eau Claire	1.9	1.9	2.0	11.9	12.5	11.9	10.2	11.4	11.2
Green Bay	3.5	3.6	3.7	21.6	23.3	23.0	11.1	11.7	11.5
Janesville-Beloit	1.6	1.7	1.7	12.2	12.9	13.4	6.9	7.4	7.4
Kenosha	1.3	1.4	1.7	8.6	8.4	8.6	6.5	6.6	6.6
La Crosse	1.5	1.5	1.4	14.1	14.8	15.2	8.3	8.4	8.3
Madison	18.1	18.6	18.8	43.0	45.0	45.6	56.4	58.7	57.5
Milwaukee	49.5	49.6	50.0	184.3	190.1	189.1	81.7	84.1	83.4
Racine	2.3	2.3	2.3	14.3	14.4	14.9	8.5	8.5	8.5
Wausau	3.4	3.6	3.6	8.1	8.4	8.3	6.3	6.5	6.4
Wyoming	7.3	7.2	7.2	30.9	31.4	31.5	51.7	53.3	52.4
Puerto Rico	35.6	36.0	36.0	114.0	118.6	119.5	285.3	302.1	301.7
Caguas	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	15.6	15.9	16.1
Mayaguez	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	18.7	19.4	19.2
Ponce	(¹)	(¹)	(¹)	9.6	9.4	9.3	16.7	17.5	17.4
San Juan	29.0	29.2	29.2	81.0	85.3	86.1	162.7	172.6	173.2
Virgin Islands	1.7	1.8	1.8	9.3	9.4	9.4	12.6	13.1	13.1

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

NOTE: Area definitions are published annually in the May issue of this publication. All State and area data have been adjusted to March 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
1988 ^p	34.8	9.29	323.29	42.3	12.69	536.79	37.9	12.97	491.56
Monthly data, not seasonally adjusted									
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	34.6	9.26	320.40	42.2	12.54	529.19	38.2	12.87	491.63
June	34.9	9.23	322.13	42.5	12.55	533.38	38.7	12.85	497.30
July	35.1	9.25	324.68	42.3	12.66	535.52	38.5	12.91	497.04
August	35.0	9.24	323.40	42.0	12.62	530.04	38.6	12.95	499.87
September	34.8	9.40	327.12	42.2	12.75	538.05	38.4	13.13	504.19
October	34.9	9.45	329.81	42.7	12.72	543.14	39.0	13.13	512.07
November	34.7	9.46	328.26	41.9	12.83	537.58	37.7	13.04	491.61
December ^p	34.9	9.46	330.15	42.8	12.96	554.69	37.2	13.16	489.55
1989:									
January ^p	34.5	9.55	329.48	42.8	13.07	559.40	36.6	13.23	484.22

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
1988 ^p	41.1	10.17	9.71	417.99	39.3	12.32	484.18	38.1	9.92	377.95
Monthly data, not seasonally adjusted										
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	40.9	10.14	9.70	414.73	39.2	12.28	481.38	38.0	9.87	375.06
June	41.2	10.16	9.70	418.59	39.5	12.27	484.67	38.1	9.85	375.29
July	40.7	10.16	9.72	413.51	39.8	12.33	490.73	38.3	9.93	380.32
August	40.8	10.12	9.66	412.90	39.7	12.35	490.30	38.0	9.88	375.44
September	41.3	10.25	9.75	423.33	39.5	12.41	490.20	38.1	10.01	381.38
October	41.3	10.24	9.76	422.91	39.5	12.43	490.99	38.2	10.08	385.06
November	41.5	10.30	9.82	427.45	39.3	12.46	489.68	38.0	10.05	381.90
December ^p	41.7	10.37	9.88	432.43	39.5	12.42	490.59	38.2	10.12	386.58
1989:										
January ^p	40.9	10.38	9.92	424.54	39.1	12.50	488.75	38.1	10.23	389.76

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	74.85	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	96.86
1971	33.7	2.60	87.82	36.6	3.22	117.85	33.9	3.04	103.08
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	33.6	3.47	117.29
1974	32.7	3.14	102.68	36.5	3.77	137.81	33.8	3.75	126.00
1975	32.4	3.36	106.88	36.5	4.06	148.19	33.5	4.02	134.87
1976	32.1	3.57	114.80	36.4	4.27	155.43	33.3	4.31	143.52
1977	31.8	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	176.00	32.8	4.99	163.67
1979	30.6	4.53	136.62	36.2	5.27	190.77	32.7	5.36	175.27
1980	30.2	4.88	147.38	36.2	5.79	209.80	32.6	5.85	190.71
1981	30.1	5.25	158.03	36.3	6.31	229.05	32.8	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	174.84	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	8.46	275.60
1986 ^p	29.1	6.30	183.33	35.9	9.09	326.33	32.6	8.90	290.14
Monthly data, not seasonally adjusted									
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	28.9	6.28	181.49	35.8	9.09	325.42	32.4	8.84	286.42
June	29.4	6.26	184.04	35.8	8.96	321.48	32.7	8.78	287.11
July	30.0	6.28	188.40	36.2	9.03	326.89	33.0	8.79	290.07
August	29.8	6.26	186.55	35.7	9.04	322.73	32.8	8.79	288.31
September	29.0	6.37	184.73	35.8	9.14	327.21	32.5	8.98	291.85
October	29.1	6.38	185.66	36.0	9.29	334.44	32.7	9.07	296.59
November	28.8	6.43	185.18	35.7	9.27	330.94	32.5	9.10	295.75
December ^p	29.5	6.41	189.10	35.8	9.32	333.66	32.5	9.15	297.38
1989:									
January ^p	28.6	6.47	185.04	36.3	9.50	344.85	32.5	9.26	300.95

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a
Total private		34.8	34.4	34.7	34.9	34.5	-		-		
Mining		43.1	42.1	41.9	42.8	42.8			-		
Metal mining	10	42.6	42.9	42.0	42.4	-	-				
Iron ores	101	42.7	41.5	42.4	42.7	-	-				
Copper ores	102	43.6	45.1	43.2	43.4						
Coal mining	11,12	43.2	43.0	41.9	42.6						
Bituminous coal and lignite mining	12	43.2	43.0	41.9	42.6						
Oil and gas extraction	13	42.6	41.6	40.8	42.3						
Crude petroleum, natural gas, and natural gas liquids	131,2	42.6	42.3	40.9	44.3						
Oil and gas field services	138	42.6	41.3	40.8	41.2	-					
Nonmetallic minerals, except fuels	14	45.3	42.0	45.4	44.9						
Crushed and broken stone	142	47.0	42.0	46.6	46.1						
Construction		37.6	35.9	37.7	37.2	36.6	-				
General building contractors	15	37.2	35.6	37.6	37.4						
Residential building construction	152	36.2	34.6	36.5	36.3	-					
Operative builders	153	37.9	37.1	38.5	38.4						
Nonresidential building construction	154	38.2	36.6	38.8	38.6						
Heavy construction contractors	16	41.3	39.0	41.6	39.9						
Highway and street construction	161	40.7	38.0	41.8	38.7						
Heavy construction, except highway	162	41.6	39.3	41.5	40.5						
Special trade contractors	17	36.7	35.3	36.7	36.4						
Plumbing, heating, and air conditioning	171	38.3	37.4	38.0	38.8						
Painting, paper hanging, and decorating	172	36.1	34.4	35.5	35.6						
Electrical work	173	39.2	38.1	38.1	39.0	-					
Masonry, stonework, and plastering	174	34.9	32.8	34.7	33.6						
Carpentering and flooring	175	35.3	33.9	35.4	34.2						
Roofing and sheet metal work	176	31.8	29.7	33.2	32.2						
Manufacturing		41.8	41.0	41.5	41.7	40.9	4.2	3.8	4.1	4.2	3.8
Durable goods		42.4	41.6	42.2	42.5	41.7	4.3	3.9	4.4	4.5	4.0
Lumber and wood products	24	40.5	39.5	40.0	40.4	39.7	3.7	3.2	3.6	3.6	
Logging camps and logging contractors	241	39.1	39.1	38.8	40.1	-	4.1	3.7	4.1	4.3	
Sawmills and planing mills	242	41.6	41.1	41.2	41.6		4.5	4.2	4.1	4.2	
Sawmills and planing mills, general	2421	41.6	41.4	41.4	41.9		4.7	4.4	4.3	4.4	
Hardwood dimension and flooring	2426	42.0	40.5	40.6	40.9		4.0	3.6	3.3	3.4	
Millwork, plywood, and structural members	243	40.7	39.4	40.1	40.3		3.4	2.8	3.4	3.4	
Millwork	2431	39.7	38.8	39.4	39.4		2.5	1.8	2.5	2.5	
Wood kitchen cabinets	2434	41.2	38.5	39.2	39.4		3.3	2.2	3.3	3.0	
Hardwood veneer and plywood	2435	42.2	40.0	41.3	41.7		4.3	3.8	3.7	3.8	
Softwood veneer and plywood	2436	41.7	42.1	42.1	43.4		4.8	4.7	5.0	5.3	
Wood containers	244	38.9	37.0	38.6	38.7		2.9	2.6	3.0	3.0	
Wood buildings and mobile homes	245	38.1	36.3	38.6	38.8		2.2	1.6	2.4	2.5	
Mobile homes	2451	37.3	35.5	38.2	38.3	-	1.9	1.2	2.2	2.4	
Miscellaneous wood products	249	40.9	40.0	40.0	39.9		3.6	3.2	3.1	3.1	
Furniture and fixtures	25	41.1	38.9	39.8	40.5	39.3	3.4	2.6	2.8	3.1	
Household furniture	251	40.7	38.5	39.5	40.3	-	3.2	2.5	2.5	2.8	
Wood household furniture	2511	41.4	39.3	40.1	40.7	-	3.3	2.7	2.7	2.8	
Upholstered household furniture	2512	39.5	37.0	38.6	40.0	-	2.7	1.9	2.1	2.7	
Metal household furniture	2514	43.1	40.2	40.2	41.0	-	4.5	3.4	2.3	3.3	
Mattresses and bedsprings	2515	38.5	38.3	38.1	38.8		2.5	2.6	2.3	2.7	
Office furniture	252	43.4	40.5	39.9	41.7	-	4.0	3.0	3.0	3.4	
Public building and related furniture	253	40.3	40.1	41.1	40.7		3.9	4.4	4.3	4.1	
Partitions and fixtures	254	41.2	39.3	40.7	40.3		4.0	2.9	3.7	3.7	
Miscellaneous furniture and fixtures	259	40.1	37.3	40.3	40.5	-	2.9	1.9	2.9	3.2	
Stone, clay, and glass products	32	42.3	40.9	42.6	42.2	41.8	4.9	4.3	5.2	4.8	
Flat glass	321	46.7	45.5	45.8	45.8	-	7.6	7.4	7.7	7.8	
Glass and glassware, pressed or blown	322	41.0	41.0	41.7	41.7	-	4.5	4.4	4.5	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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p
Total private		\$9.13	\$9.18	\$9.46	\$9.46	\$9.55	\$317.72	\$315.79	\$328.26	\$330.15	\$329.48
Mining		12.60	12.77	12.83	12.96	13.07	543.06	537.62	537.58	554.69	559.40
Metal mining	10	12.76	12.95	13.28	13.50		543.58	555.56	557.76	572.40	
Iron ores	101	13.03	14.18	14.00	15.23		556.38	588.47	593.60	650.32	
Copper ores	102	11.48	11.54	11.44	11.62		500.53	520.45	494.21	504.31	
Coal mining	11,12	16.04	16.02	16.05	16.06		692.93	688.86	672.50	684.16	
Bituminous coal and lignite mining	12	16.09	16.07	16.10	16.11		695.09	691.01	674.59	686.29	
Oil and gas extraction	13	11.53	11.71	11.86	12.06		491.18	487.14	483.89	510.14	
Crude petroleum, natural gas, and natural gas liquids	131,2	14.28	14.40	14.56	14.81		608.33	609.12	595.50	656.08	
Oil and gas field services	138	10.00	10.16	10.36	10.41		426.00	419.61	422.69	428.89	
Nonmetallic minerals, except fuels	14	10.78	10.83	11.14	11.12		488.33	454.86	505.76	499.29	
Crushed and broken stone	142	10.14	10.02	10.55	10.43		476.58	420.84	491.63	480.82	
Construction		12.81	12.99	13.04	13.16	13.23	481.66	466.34	491.61	489.55	484.22
General building contractors	15	11.89	12.07	12.30	12.36		442.31	429.69	462.48	462.26	
Residential building construction	152	11.19	11.35	11.61	11.73		405.08	392.71	423.77	425.80	
Operative builders	153	10.85	11.01	11.71	11.67		411.22	408.47	450.84	448.13	
Nonresidential building construction	154	12.69	12.90	13.09	13.08		484.76	472.14	507.89	504.89	
Heavy construction contractors	16	11.92	12.08	12.47	12.46		492.30	471.12	518.75	497.15	
Highway and street construction	161	11.54	11.85	12.38	12.23		469.68	450.30	517.48	473.30	
Heavy construction, except highway	162	12.11	12.17	12.53	12.57		503.78	478.28	520.00	509.09	
Special trade contractors	17	13.46	13.62	13.51	13.68		493.98	480.79	495.82	497.95	
Plumbing, heating, and air conditioning	171	13.67	13.73	13.86	14.03		523.56	513.50	526.68	544.36	
Painting, paper hanging, and decorating	172	12.72	13.00	12.56	12.79		459.19	447.20	445.88	455.32	
Electrical work	173	14.75	14.78	14.63	14.68		578.20	563.12	557.40	572.52	
Masonry, stonework, and plastering	174	13.41	13.54	13.69	13.80		468.01	444.11	475.04	463.68	
Carpentering and flooring	175	12.83	12.74	13.08	13.11		452.90	431.89	463.03	448.36	
Roofing and sheet metal work	176	12.04	12.28	11.99	12.24		382.87	364.72	398.07	394.13	
Manufacturing		10.07	10.07	10.30	10.37	10.38	420.93	412.87	427.45	432.43	424.54
Durable goods		10.60	10.60	10.85	10.91	10.90	449.44	440.96	457.87	463.68	454.53
Lumber and wood products	24	8.43	8.51	8.68	8.76	8.75	341.42	336.15	347.20	353.90	347.38
Logging camps and logging contractors	241	10.66	10.77	10.97	11.26	-	416.81	421.11	425.64	451.53	-
Sawmills and planing mills	242	8.63	8.68	8.81	8.90		359.01	356.75	362.97	370.24	
Sawmills and planing mills, general	2421	8.99	9.05	9.13	9.22		373.98	374.67	377.98	386.32	
Hardwood dimension and flooring	2426	6.97	6.93	7.17	7.27	-	292.74	280.67	291.10	297.34	-
Millwork, plywood, and structural members	243	8.34	8.52	8.63	8.70		339.44	335.69	346.06	350.61	
Millwork	2431	8.53	8.77	8.75	8.94		338.64	340.28	344.75	352.24	
Wood kitchen cabinets	2434	7.79	7.77	8.18	8.11		320.95	299.15	320.66	319.53	
Hardwood veneer and plywood	2435	6.87	7.00	7.06	7.11		289.91	280.00	291.58	296.49	
Softwood veneer and plywood	2436	9.82	10.09	10.14	10.14		409.49	424.79	426.89	440.08	
Wood containers	244	6.28	6.26	6.39	6.44		244.29	231.62	246.65	249.23	
Wood buildings and mobile homes	245	7.99	7.87	8.26	8.21		304.42	285.68	318.84	318.55	
Mobile homes	2451	8.04	7.87	8.36	8.31		299.89	279.39	319.35	318.27	
Miscellaneous wood products	249	7.34	7.32	7.48	7.51		300.21	292.80	299.20	299.65	
Furniture and fixtures	25	7.78	7.80	8.00	8.04	8.05	319.76	303.42	318.40	325.62	316.37
Household furniture	251	7.21	7.19	7.36	7.44	-	293.45	276.82	290.72	299.83	-
Wood household furniture	2511	6.67	6.71	6.92	6.93		276.14	263.70	277.49	282.05	
Upholstered household furniture	2512	8.03	7.93	8.06	8.20	-	317.19	293.41	311.12	328.00	-
Metal household furniture	2514	6.94	7.02	7.17	7.41		299.11	282.20	288.23	303.81	
Mattresses and bedsprings	2515	7.75	7.69	7.87	7.96		298.38	294.53	299.85	308.85	
Office furniture	252	8.71	8.95	9.06	9.04		378.01	362.48	361.49	376.97	
Public building and related furniture	253	7.99	8.23	8.59	8.61		322.00	330.02	353.05	350.43	
Partitions and fixtures	254	9.34	9.22	9.55	9.58	-	384.81	362.35	388.69	386.07	-
Miscellaneous furniture and fixtures	259	8.18	8.24	8.39	8.33		328.02	307.35	338.12	337.37	
Stone, clay, and glass products	32	10.29	10.35	10.61	10.57	10.61	435.27	423.32	451.99	446.05	443.50
Flat glass	321	15.01	14.93	15.29	15.57	-	700.97	679.32	700.28	713.11	-
Glass and glassware, pressed or blown	322	11.41	11.67	11.73	11.74		467.81	478.47	489.14	489.56	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	41.0	40.4	41.1	41.4	-	5.3	5.1	5.0	4.9	-
Pressed and blown glass, nec	3229	41.1	41.8	42.3	42.1	-	3.5	3.6	4.0	3.8	-
Products of purchased glass	323	41.7	40.5	43.0	42.4	-	3.7	3.1	4.1	3.6	-
Cement, hydraulic	324	42.2	42.6	42.6	42.0	-	3.6	3.8	3.7	3.3	-
Structural clay products	325	42.8	42.0	42.2	42.4	-	4.6	4.2	4.3	4.4	-
Pottery and related products	326	41.1	40.8	40.7	41.2	-	3.5	3.1	3.9	4.1	-
Concrete, gypsum, and plaster products	327	42.4	39.6	43.4	41.8	-	5.7	4.6	6.5	5.5	-
Concrete block and brick	3271	44.5	40.8	44.3	44.2	-	6.4	4.5	6.3	5.3	-
Concrete products, nec	3272	43.4	41.7	42.9	43.0	-	5.7	5.4	6.0	5.9	-
Ready-mixed concrete	3273	40.5	36.8	42.6	39.4	-	5.2	3.5	6.5	4.6	-
Misc. nonmetallic mineral products	329	43.8	42.3	42.7	43.2	-	5.2	4.9	4.9	5.1	-
Abrasive products	3291	45.1	42.9	44.2	44.3	-	4.8	4.1	4.4	4.7	-
Asbestos products	3292	45.3	43.9	44.4	44.6	-	6.8	5.2	5.0	6.5	-
Primary metal industries											
Blast furnaces and basic steel products	331	44.1	43.5	43.9	44.0	43.4	5.5	5.3	5.7	5.6	-
Blast furnaces and steel mills	3312	44.4	43.9	44.0	44.1	43.8	5.7	5.5	5.7	5.9	-
Steel pipe and tubes	3317	44.5	43.9	44.4	44.5	-	5.8	5.6	6.0	6.2	-
Iron and steel foundries	332	44.8	43.7	42.8	42.6	-	6.7	6.2	4.9	4.9	-
Gray iron foundries	3321	44.1	43.6	44.2	44.3	-	5.6	5.5	6.2	6.2	-
Malleable iron foundries	3322	44.0	43.4	44.3	44.4	-	5.7	5.8	6.6	6.6	-
Steel foundries, nec	3325	42.5	42.5	43.2	42.5	-	4.5	4.2	5.3	4.6	-
Primary nonferrous metals	333	44.1	43.7	43.8	44.2	-	5.7	5.2	5.8	5.7	-
Primary aluminum	3334	43.9	43.6	44.2	43.8	-	4.7	4.6	5.1	4.7	-
Nonferrous rolling and drawing	335	44.6	44.0	43.7	43.3	-	4.5	4.4	4.8	4.5	-
Copper rolling and drawing	3351	44.5	43.7	43.9	44.5	-	6.0	5.9	6.2	6.2	-
Aluminum sheet, plate, and foil	3353	44.5	43.7	43.9	44.5	-	6.8	6.4	6.2	6.3	-
Nonferrous wire drawing and insulating	3357	46.0	45.9	45.4	45.1	-	7.6	6.1	7.3	7.0	-
Nonferrous foundries	336	44.1	43.3	43.8	43.6	-	5.5	5.2	6.1	5.9	-
Aluminum foundries	3361	42.6	41.9	42.4	43.0	-	4.2	3.8	4.5	4.6	-
Aluminum foundries	3361	43.0	42.5	42.9	43.2	-	4.4	4.1	4.7	4.9	-
Fabricated metal products											
Metal cans and shipping containers	34	42.7	41.8	42.5	42.7	41.9	4.5	4.0	4.5	4.6	-
Metal cans	341	45.0	43.9	45.6	45.9	-	5.3	5.4	6.2	5.6	-
Cutlery, hand tools, and hardware	342	45.1	44.2	46.5	46.4	-	5.3	5.6	6.5	5.7	-
Hand and edge tools, and hand saws and blades	3423,5	42.6	41.7	41.9	41.6	-	4.1	3.7	3.7	3.7	-
Hardware, nec	3429	42.4	41.7	41.2	41.0	-	3.9	3.6	3.0	3.3	-
Plumbing and heating, except electric	343	42.5	41.4	41.9	42.0	-	4.1	3.6	3.9	3.7	-
Plumbing fittings and brass goods	3432	43.2	42.0	41.6	42.0	-	4.6	4.1	4.2	3.9	-
Heating equipment, except electric	3433	43.8	42.2	41.5	42.4	-	4.4	4.1	4.0	3.9	-
Fabricated structural metal products	344	43.2	41.8	41.5	40.9	-	4.4	3.7	4.9	3.6	-
Fabricated structural metal	3441	41.7	40.5	41.6	41.9	-	3.9	3.2	4.0	4.3	-
Metal doors, sash, and trim	3442	42.9	41.2	42.3	42.9	-	4.5	3.4	4.8	5.2	-
Fabricated plate work (boiler shops)	3443	39.4	38.6	40.5	40.1	-	2.7	2.2	2.9	2.6	-
Sheet metal work	3444	44.2	43.1	43.1	43.4	-	4.8	4.6	4.3	5.0	-
Architectural metal work	3446	40.9	40.0	40.2	40.8	-	3.6	3.0	3.5	3.8	-
Screw machine products, bolts, etc	345	41.1	39.7	41.7	42.4	-	3.7	3.1	4.7	5.3	-
Screw machine products	3451	44.3	43.8	43.9	43.7	-	6.1	5.9	6.1	5.9	-
Bolts, nuts, rivets, and washers	3452	43.0	42.4	42.3	42.2	-	5.2	5.1	4.9	4.7	-
Metal forgings and stampings	346	45.8	45.4	45.9	45.5	-	7.1	6.8	7.5	7.5	-
Iron and steel forgings	3462	43.6	42.8	44.0	44.0	-	5.1	4.8	5.7	5.9	-
Automotive stampings	3465	44.3	43.2	44.3	44.0	-	5.6	4.7	6.1	6.5	-
Metal stampings, nec	3489	44.8	43.6	46.5	45.9	-	5.4	5.2	7.2	7.0	-
Metal services, nec	347	42.1	41.5	41.3	42.1	-	4.7	4.3	4.0	4.6	-
Plating and polishing	3471	41.9	40.7	41.8	42.1	-	4.3	3.6	4.1	4.1	-
Metal coating and allied services	3479	41.6	40.4	41.8	42.1	-	4.3	3.6	3.9	4.1	-
Ordnance and accessories, nec	348	42.0	41.3	41.9	42.2	-	4.3	3.5	4.5	4.1	-
Ammunition, except for small arms, nec	3483	42.7	42.5	41.5	43.1	-	3.7	3.4	2.8	3.1	-
Misc. fabricated metal products	349	41.8	41.2	39.8	41.7	-	3.0	2.7	2.8	2.9	-
Valves and pipe fittings	3494	42.8	42.3	42.2	42.6	-	4.5	4.1	4.0	4.4	-
Misc. fabricated wire products	3496	44.1	43.7	42.4	43.3	-	5.3	4.6	3.9	4.9	-
Machinery, except electrical	35	41.4	41.1	41.0	41.1	-	3.9	3.8	3.7	3.9	-
Engines and turbines	351	43.7	42.8	42.8	43.4	42.5	5.0	4.4	4.6	5.0	-
Turbines and turbine generator sets	3511	44.8	45.3	44.9	45.1	-	6.5	6.4	5.3	5.4	-
Internal combustion engines, nec	3519	41.2	42.3	46.1	47.6	-	4.0	3.0	9.5	9.3	-
Farm and garden machinery	352	45.9	46.2	44.6	44.4	-	7.3	7.4	4.0	4.2	-
Farm machinery and equipment	3523	43.5	43.3	41.3	42.1	-	4.2	4.2	3.8	4.2	-
Farm machinery and equipment	3523	44.0	43.2	41.7	42.5	-	4.7	4.1	4.3	4.7	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	\$11.87	\$11.90	\$12.09	\$12.14		\$486.67	\$480.76	\$496.90	\$502.60	
Pressed and blown glass, nec	3229	10.90	11.42	11.33	11.31		447.99	477.36	479.26	476.15	
Products of purchased glass	323	8.72	8.86	9.30	9.23		363.62	358.83	399.90	391.35	
Cement, hydraulic	324	13.48	13.33	13.91	13.53		568.86	567.86	592.57	568.26	
Structural clay products	325	8.63	8.71	9.04	8.99		367.64	365.82	381.49	381.18	
Pottery and related products	326	9.09	9.09	9.51	9.48		373.60	370.87	387.06	390.58	
Concrete, gypsum, and plaster products	327	9.98	9.99	10.36	10.26		423.15	395.60	449.62	428.87	
Concrete block and brick	3271	9.04	9.08	9.42	9.28		402.28	370.46	417.31	410.18	
Concrete products, nec	3272	8.99	9.05	9.23	9.19		390.17	377.39	395.97	395.17	
Ready-mixed concrete	3273	10.81	10.88	11.24	11.17		437.81	400.38	478.82	440.10	
Misc. nonmetallic mineral products	329	10.54	10.44	10.66	10.66		461.65	441.61	455.18	460.51	
Abrasive products	3291	9.99	10.03	10.17	10.27		450.55	430.29	449.51	454.96	
Asbestos products	3292	10.70	10.48	10.85	11.21		484.71	460.07	481.74	499.97	
Primary metal industries	33	12.11	12.06	12.23	12.27	\$12.24	534.05	524.61	536.90	539.88	\$531.22
Blast furnaces and basic steel products	331	13.93	13.82	14.01	14.08	14.02	618.49	606.70	616.44	620.93	614.08
Blast furnaces and steel mills	3312	14.68	14.55	14.73	14.79	-	653.26	638.75	654.01	658.16	-
Steel pipe and tubes	3317	10.93	11.03	10.90	11.09		489.66	482.01	466.52	472.43	
Iron and steel foundries	332	10.91	10.90	11.16	11.19		481.13	475.24	493.27	495.72	
Gray iron foundries	3321	11.41	11.41	11.75	11.83		502.04	495.19	520.53	525.25	
Malleable iron foundries	3322	11.79	11.81	12.00	11.74		501.08	501.93	518.40	498.95	
Steel foundries, nec	3325	10.21	10.19	10.29	10.26		450.26	445.30	450.70	453.49	
Primary nonferrous metals	333	13.14	13.03	13.37	13.40		576.85	568.11	590.95	586.92	
Primary aluminum	3334	13.51	13.42	13.69	13.66		602.55	590.48	598.25	591.48	
Nonferrous rolling and drawing	335	11.57	11.54	11.83	11.83		514.87	504.30	520.52	521.70	
Copper rolling and drawing	3351	10.83	10.82	11.03	11.15		481.94	472.83	484.22	496.18	
Aluminum sheet, plate, and foil	3353	13.94	13.98	13.98	14.03		641.24	641.68	634.69	632.75	
Nonferrous wire drawing and insulating	3357	11.61	11.56	12.14	12.04		512.00	500.55	531.73	524.94	
Nonferrous foundries	336	9.69	9.61	9.74	9.81		412.79	402.66	412.98	421.83	
Aluminum foundries	3361	10.01	9.84	9.97	10.10		430.43	418.20	427.71	436.32	
Fabricated metal products	34	10.19	10.12	10.35	10.42	10.42	435.11	423.02	439.88	444.93	436.60
Metal cans and shipping containers	341	13.38	13.42	13.66	13.66	-	602.10	589.14	625.63	626.99	-
Metal cans	3411	14.15	14.22	14.52	14.58		638.17	628.52	675.18	676.51	
Cutlery, hand tools, and hardware	342	10.12	10.02	10.32	10.34		431.11	417.83	432.41	432.21	
Hand and edge tools, and hand saws and blades ..	3423,5	9.30	9.27	9.38	9.52		394.32	386.56	386.46	390.32	
Hardware, nec	3429	10.50	10.39	10.75	10.71		446.25	430.15	450.43	449.52	
Plumbing and heating, except electric	343	9.30	9.20	9.37	9.37		401.76	386.40	389.79	393.84	
Plumbing fittings and brass goods	3432	8.93	8.80	9.03	9.07		389.35	371.36	374.75	384.57	
Heating equipment, except electric	3433	9.14	9.01	9.36	9.33		394.85	374.82	388.44	381.60	
Fabricated structural metal products	344	9.51	9.45	9.68	9.75		396.57	382.73	402.69	408.53	
Fabricated structural metal	3441	10.02	9.95	10.32	10.47		429.86	409.94	436.54	449.16	
Metal doors, sash, and trim	3442	7.95	7.94	8.17	8.22		313.23	306.48	330.89	329.62	
Fabricated plate work (boiler shops)	3443	10.46	10.40	10.32	10.35		462.33	448.24	444.79	449.19	
Sheet metal work	3444	9.78	9.71	10.00	10.03		400.00	388.40	402.00	409.22	
Architectural metal work	3446	9.11	8.79	8.83	8.88		374.42	348.98	368.21	376.51	
Screw machine products, bolts, etc	345	10.02	9.96	10.11	10.18		443.89	436.25	443.83	444.87	
Screw machine products	3451	9.32	9.31	9.50	9.57		400.76	394.74	401.85	403.85	
Bolts, nuts, rivets, and washers	3452	10.79	10.69	10.80	10.87		494.18	485.33	495.72	494.59	
Metal forgings and stampings	346	12.06	11.98	12.27	12.38		525.82	512.74	539.88	544.72	
Iron and steel forgings	3462	12.97	12.68	12.90	13.20		574.57	547.78	571.47	580.80	
Automotive stampings	3465	13.95	13.97	14.30	14.44		624.96	611.89	664.95	662.80	
Metal stampings, nec	3469	9.47	9.48	9.50	9.62		398.69	393.42	392.35	405.00	
Metal services, nec	347	8.17	8.06	8.32	8.40		342.32	328.04	347.78	353.64	
Plating and polishing	3471	8.15	8.16	8.27	8.37		340.67	329.66	345.69	352.38	
Metal coating and allied services	3479	8.21	7.89	8.41	8.46		344.82	325.86	352.38	357.01	
Ordnance and accessories, nec	348	11.20	11.14	11.33	11.42		478.24	473.45	470.20	492.20	
Ammunition, except for small arms, nec	3483	10.69	10.72	11.04	11.08		446.84	441.66	439.39	462.04	
Misc. fabricated metal products	349	9.50	9.44	9.64	9.73		406.60	399.31	406.81	414.50	
Valves and pipe fittings	3494	10.33	10.18	10.38	10.55	-	455.55	444.87	440.11	456.82	
Misc. fabricated wire products	3496	8.52	8.46	8.64	8.64		352.73	347.71	354.24	355.10	
Machinery, except electrical	35	10.89	10.85	11.17	11.20	11.17	475.89	464.38	478.08	486.08	474.73
Engines and turbines	351	13.54	13.77	14.05	13.66	-	606.59	623.78	630.85	616.07	-
Turbines and turbine generator sets	3511	13.76	13.84	14.44	14.14		566.91	585.43	665.68	673.06	
Internal combustion engines, nec	3519	13.48	13.75	13.93	13.50		618.73	635.25	621.28	599.40	
Farm and garden machinery	352	10.17	10.02	10.65	10.41	-	442.40	433.87	439.85	438.26	-
Farm machinery and equipment	3523	10.87	10.74	11.50	11.24		478.28	463.97	479.55	477.70	

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	44.7	43.5	43.2	43.7	-	5.2	4.6	4.2	4.9	-
Construction machinery	3531	45.1	44.6	43.7	44.2	-	4.5	4.2	3.9	4.8	-
Mining machinery	3532	43.8	43.2	42.7	43.5	-	5.3	4.6	4.3	5.0	-
Oil field machinery	3533	45.9	43.8	42.4	43.1	-	7.3	6.5	4.6	5.8	-
Conveyors and conveying equipment	3535	44.0	42.2	43.8	44.8	-	5.2	4.0	5.4	6.2	-
Industrial trucks and tractors	3537	43.3	41.9	41.8	42.9	-	4.6	3.9	3.3	4.0	-
Metalworking machinery	354	44.2	43.6	43.8	44.6	-	5.7	5.3	5.6	6.0	-
Machine tools, metal cutting types	3541	43.8	42.5	43.9	44.8	-	5.1	4.4	5.3	5.9	-
Machine tools, metal forming types	3542	45.5	44.6	45.9	46.3	-	7.3	6.4	7.0	7.8	-
Special dies, tools, jigs, and fixtures	3544	44.8	44.1	44.1	44.9	-	6.3	5.9	6.3	6.7	-
Machine tool accessories	3545	43.6	42.8	42.5	43.9	-	5.3	4.7	4.9	5.0	-
Power driven hand tools	3546	41.9	42.5	43.2	43.5	-	3.3	4.0	3.8	4.0	-
Special industry machinery	355	43.3	42.5	42.6	43.8	-	5.2	4.6	4.9	5.6	-
Food products machinery	3551	43.2	42.3	43.0	44.2	-	4.4	4.1	4.4	5.2	-
Textile machinery	3552	43.8	42.3	42.1	43.8	-	4.8	4.0	3.8	4.9	-
Printing trades machinery	3555	41.0	41.7	39.3	40.4	-	4.8	5.7	4.4	5.3	-
General industrial machinery	356	44.2	43.1	43.2	44.3	-	5.1	4.4	4.8	5.6	-
Pumps and pumping equipment	3561	44.7	43.7	43.2	44.9	-	5.4	4.5	4.3	5.3	-
Ball and roller bearings	3562	44.3	44.6	44.3	44.5	-	5.2	5.4	6.4	6.9	-
Air and gas compressors	3563	44.3	43.3	43.5	44.5	-	6.3	5.0	5.2	6.5	-
Blowers and fans	3564	43.6	40.9	42.3	43.1	-	3.9	2.5	3.6	4.6	-
Speed changers, drives, and gears	3566	44.3	43.8	43.0	44.5	-	5.6	4.6	5.3	5.9	-
Power transmission equipment, nec	3568	44.1	42.8	42.4	43.5	-	5.3	4.9	5.2	5.8	-
Office and computing machines	357	43.0	41.9	41.8	42.2	-	4.4	3.3	3.5	3.8	-
Electronic computing equipment	3573	43.2	42.2	42.1	42.6	-	4.2	3.1	3.5	3.9	-
Refrigeration and service machinery	358	43.1	42.2	42.2	42.7	-	3.9	3.5	3.7	3.6	-
Refrigeration and heating equipment	3585	43.2	42.8	42.9	43.2	-	4.0	3.9	4.1	3.8	-
Misc. machinery, except electrical	359	42.9	41.9	42.3	42.6	-	4.8	4.3	4.9	5.1	-
Carburetors, pistons, rings, and valves	3592	43.3	41.9	43.7	44.1	-	4.4	3.6	5.8	5.7	-
Machinery, except electrical, nec	3599	42.9	42.0	42.1	42.4	-	4.9	4.4	4.7	5.1	-
Electrical and electronic equipment	36	42.0	41.3	41.4	41.9	40.8	3.8	3.3	3.6	3.8	-
Electric distributing equipment	361	42.0	42.1	43.2	42.9	-	3.6	3.5	4.1	4.0	-
Transformers	3612	42.3	41.3	42.9	42.9	-	3.4	3.1	4.2	4.3	-
Switchgear and switchboard apparatus	3613	41.8	42.7	43.5	43.0	-	3.8	3.9	4.0	3.9	-
Electrical industrial apparatus	362	42.8	42.2	42.6	43.3	-	4.4	3.6	4.0	4.5	-
Motors and generators	3621	42.3	41.6	42.6	42.8	-	4.4	3.6	4.4	4.7	-
Industrial controls	3622	43.4	42.3	41.7	42.5	-	3.9	3.1	2.9	3.8	-
Household appliances	363	41.0	40.6	41.5	41.1	-	3.2	2.9	4.3	3.7	-
Household refrigerators and freezers	3632	41.2	39.3	42.2	42.0	-	4.3	2.1	6.5	5.6	-
Household laundry equipment	3633	40.2	41.7	41.9	42.0	-	1.9	2.6	3.1	2.9	-
Electric housewares and fans	3634	43.2	42.0	42.9	40.9	-	3.9	3.7	4.8	3.5	-
Electric lighting and wiring equipment	364	41.3	41.0	40.3	40.3	-	3.8	3.5	3.3	3.3	-
Electric lamps	3641	41.8	42.0	40.2	38.6	-	4.8	4.3	3.0	2.5	-
Current-carrying wiring devices	3643	41.0	40.9	39.8	39.5	-	3.6	3.2	2.9	3.0	-
Noncurrent-carrying wiring devices	3644	42.1	41.3	40.8	42.8	-	3.8	3.5	3.0	4.0	-
Residential lighting fixtures	3645	40.0	39.1	38.6	39.3	-	2.4	2.2	2.8	2.2	-
Radio and TV receiving equipment	365	41.5	40.2	42.9	44.1	-	2.9	2.2	4.7	4.6	-
Radio and TV receiving sets	3651	42.5	40.0	42.4	43.6	-	3.0	1.8	4.1	4.4	-
Communication equipment	366	42.3	41.5	40.6	41.3	-	3.3	2.8	2.7	3.1	-
Telephone and telegraph apparatus	3661	43.9	43.6	40.7	41.6	-	3.9	3.6	2.8	3.4	-
Radio and TV communication equipment	3662	41.7	40.7	40.5	41.2	-	3.1	2.5	2.6	3.0	-
Electronic components and accessories	367	41.7	40.9	40.8	41.3	-	4.0	3.6	3.4	3.8	-
Electronic tubes	3671-3	44.3	43.7	43.2	43.4	-	3.4	3.2	4.5	4.8	-
Semiconductors and related devices	3674	41.3	40.5	40.2	41.0	-	4.3	3.7	3.5	3.9	-
Electronic components, nec	3679	42.0	40.8	41.2	42.0	-	4.2	3.6	3.4	3.9	-
Misc. electrical equipment and supplies	369	43.2	42.0	43.4	44.0	-	4.3	3.6	4.8	4.9	-
Storage batteries	3691	43.5	41.7	43.7	44.4	-	4.1	3.5	4.0	5.1	-
Engine electrical equipment	3694	43.6	42.5	43.9	44.8	-	4.9	4.1	5.7	5.9	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	\$11.14	\$11.04	\$11.21	\$11.35	-	\$497.96	\$480.24	\$484.27	\$496.00	-
Construction machinery	3531	12.36	12.25	12.66	12.78	-	557.44	546.35	553.24	564.88	-
Mining machinery	3532	11.40	11.32	11.22	11.43	-	499.32	489.02	479.09	497.21	-
Oil field machinery	3533	11.02	10.83	10.73	11.05	-	505.82	474.35	454.95	476.26	-
Conveyors and conveying equipment	3535	9.92	9.81	10.16	10.27	-	436.48	413.98	445.01	460.10	-
Industrial trucks and tractors	3537	9.97	9.82	9.81	9.81	-	431.70	411.46	410.06	420.85	-
Metalworking machinery	354	11.31	11.28	11.58	11.61	-	499.90	491.81	507.20	517.81	-
Machine tools, metal cutting types	3541	11.28	11.15	11.47	11.55	-	494.06	473.88	503.53	517.44	-
Machine tools, metal forming types	3542	11.87	11.78	11.98	12.12	-	540.09	525.39	549.88	561.16	-
Special dies, tools, jigs, and fixtures	3544	12.01	12.04	12.39	12.45	-	538.05	530.96	546.40	559.01	-
Machine tool accessories	3545	10.23	10.14	10.43	10.33	-	446.03	433.99	443.28	453.49	-
Power driven hand tools	3546	8.80	8.77	9.07	9.18	-	368.72	372.73	391.82	399.33	-
Special industry machinery	355	10.97	10.91	11.32	11.41	-	475.00	463.68	482.23	499.76	-
Food products machinery	3551	11.02	10.84	11.21	11.27	-	476.06	458.53	482.03	498.13	-
Textile machinery	3552	8.97	8.98	9.40	9.48	-	392.89	379.85	395.74	415.22	-
Printing trades machinery	3555	11.76	11.84	12.31	12.65	-	482.16	493.73	483.78	511.06	-
General industrial machinery	356	10.54	10.45	10.74	10.79	-	465.87	450.40	463.97	478.00	-
Pumps and pumping equipment	3561	11.22	11.17	11.37	11.45	-	501.53	488.13	491.18	514.11	-
Ball and roller bearings	3562	10.85	10.76	11.33	11.36	-	480.66	479.90	501.92	505.52	-
Air and gas compressors	3563	10.62	10.46	10.67	10.58	-	470.47	452.92	464.15	470.81	-
Blowers and fans	3564	9.37	9.30	9.50	9.60	-	408.53	380.37	401.85	413.76	-
Speed changers, drives, and gears	3566	10.49	10.34	10.77	10.84	-	464.71	452.89	463.11	482.38	-
Power transmission equipment, nec	3568	10.68	10.61	10.63	10.68	-	470.99	454.11	450.71	464.58	-
Office and computing machines	357	10.42	10.47	10.92	11.03	-	448.06	438.69	456.46	465.47	-
Electronic computing equipment	3573	10.44	10.46	10.88	11.00	-	451.01	441.41	458.05	468.60	-
Refrigeration and service machinery	358	10.65	10.50	10.74	10.75	-	459.02	443.10	453.23	459.03	-
Refrigeration and heating equipment	3585	10.85	10.74	10.91	10.90	-	468.72	459.67	468.04	470.88	-
Misc. machinery, except electrical	359	10.51	10.48	10.81	10.84	-	450.88	439.11	457.26	461.78	-
Carburetors, pistons, rings, and valves	3592	13.03	12.84	13.16	13.11	-	564.20	538.00	575.09	578.15	-
Machinery, except electrical, nec	3599	10.17	10.17	10.50	10.54	-	436.29	427.14	442.05	446.90	-
Electrical and electronic equipment	36	10.03	10.02	10.24	10.29	\$10.31	421.26	413.83	423.94	431.15	\$420.65
Electric distributing equipment	361	9.36	9.40	9.48	9.59	-	393.12	395.74	409.54	411.41	-
Transformers	3612	9.14	9.17	9.32	9.34	-	386.62	378.72	399.83	400.69	-
Switchgear and switchboard apparatus	3613	9.55	9.59	9.62	9.80	-	399.19	409.49	418.47	421.40	-
Electrical industrial apparatus	362	9.99	9.82	10.10	10.10	-	427.57	414.40	430.26	437.33	-
Motors and generators	3621	9.97	9.74	10.12	10.16	-	421.73	405.18	431.11	434.85	-
Industrial controls	3622	9.86	9.75	9.92	9.86	-	427.92	412.43	413.66	419.05	-
Household appliances	363	9.95	10.03	10.13	10.11	-	407.95	407.22	420.40	415.52	-
Household refrigerators and freezers	3632	11.60	11.43	12.15	11.97	-	477.92	449.20	512.73	502.74	-
Household laundry equipment	3633	11.81	11.94	12.02	11.90	-	474.76	497.90	503.64	499.80	-
Electric housewares and fans	3634	7.37	7.39	7.38	7.36	-	318.38	310.38	316.60	301.02	-
Electric lighting and wiring equipment	364	9.32	9.37	9.67	9.64	-	384.92	384.17	389.70	388.49	-
Electric lamps	3641	10.43	10.60	10.93	10.83	-	435.97	445.20	439.39	418.04	-
Current-carrying wiring devices	3643	9.03	8.98	9.50	9.46	-	370.23	367.28	378.10	373.67	-
Noncurrent-carrying wiring devices	3644	9.36	9.35	9.39	9.38	-	394.06	386.16	383.11	401.46	-
Residential lighting fixtures	3645	6.82	6.99	6.89	7.04	-	272.80	273.31	265.95	276.67	-
Radio and TV receiving equipment	365	9.33	9.34	9.86	10.01	-	387.20	375.47	422.99	441.44	-
Radio and TV receiving sets	3651	9.58	9.67	10.46	10.45	-	407.15	386.80	443.50	455.62	-
Communication equipment	366	11.94	11.92	12.20	12.26	-	505.06	494.68	495.32	506.34	-
Telephone and telegraph apparatus	3661	11.39	11.46	11.70	11.72	-	500.02	499.66	476.19	487.55	-
Radio and TV communication equipment	3662	12.15	12.10	12.39	12.47	-	506.66	492.47	501.80	513.76	-
Electronic components and accessories	367	9.05	9.05	9.23	9.35	-	377.39	370.15	376.58	386.16	-
Electronic tubes	3671-3	11.27	11.28	11.48	11.73	-	499.26	492.94	495.94	509.08	-
Semiconductors and related devices	3674	10.99	11.03	11.22	11.40	-	453.89	446.72	451.04	467.40	-
Electronic components, nec	3679	8.18	8.15	8.26	8.33	-	343.56	332.52	340.31	349.86	-
Misc. electrical equipment and supplies	369	10.79	10.73	11.16	11.01	-	466.13	450.66	484.34	484.44	-
Storage batteries	3691	11.69	11.49	11.60	11.92	-	508.52	479.13	506.92	529.25	-
Engine electrical equipment	3694	11.29	11.29	11.96	11.51	-	492.24	479.83	525.04	515.65	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a
Durable goods—Continued											
Transportation equipment	37	42.7	42.4	43.6	43.9	43.0	4.6	4.4	5.3	5.6	-
Motor vehicles and equipment	371	42.8	42.5	44.6	44.9	43.8	4.4	4.5	6.0	6.2	-
Motor vehicles and car bodies	3711	41.3	41.2	45.1	45.2	-	3.5	4.0	6.5	6.4	-
Truck and bus bodies	3713	42.5	42.0	41.0	42.7	-	3.8	3.6	3.6	4.6	-
Motor vehicle parts and accessories	3714	44.3	43.9	45.2	45.5	-	5.4	5.2	6.4	6.7	-
Truck trailers	3715	41.8	40.3	40.6	41.0	-	3.5	2.8	2.5	2.6	-
Aircraft and parts	372	43.6	42.9	43.2	43.5	-	5.7	4.8	5.4	5.7	-
Aircraft	3721	43.0	42.4	43.0	42.9	-	5.1	4.5	4.9	5.2	-
Aircraft engines and engine parts	3724	43.9	42.6	43.1	43.5	-	5.9	4.1	5.9	6.3	-
Aircraft equipment, nec	3728	44.1	43.9	43.7	44.4	-	6.5	5.7	5.8	6.2	-
Ship and boat building and repairing	373	40.9	40.8	40.8	40.3	-	3.2	3.2	3.0	2.9	-
Ship building and repairing	3731	41.2	41.5	41.4	40.5	-	3.3	3.4	3.4	3.2	-
Boat building and repairing	3732	40.4	39.5	39.8	40.0	-	3.0	2.7	2.3	2.5	-
Railroad equipment	374	42.7	41.8	43.6	42.8	-	3.9	4.0	4.5	4.7	-
Guided missiles, space vehicles, and parts	376	44.0	43.9	43.5	44.6	-	5.1	4.7	4.9	5.4	-
Guided missiles and space vehicles	3761	43.9	44.1	43.3	44.9	-	5.0	4.9	4.8	5.5	-
Miscellaneous transportation equipment	379	39.9	39.0	39.4	40.8	-	3.1	2.9	2.5	3.1	-
Travel trailers and campers	3792	37.3	36.8	38.5	38.8	-	1.5	1.3	2.1	2.1	-
Instruments and related products	38	42.2	41.8	42.0	42.0	41.3	3.6	3.2	3.3	3.5	-
Engineering and scientific instruments	381	43.5	42.4	42.4	43.6	-	4.2	3.3	3.5	4.0	-
Measuring and controlling devices	382	42.2	41.7	42.5	42.1	-	3.5	3.1	3.2	3.2	-
Environmental controls	3822	40.1	40.4	40.6	41.3	-	3.4	3.1	2.6	2.8	-
Process control instruments	3823	45.1	43.6	44.1	44.6	-	4.6	4.1	4.3	4.7	-
Instruments to measure electricity	3825	41.3	41.2	42.5	41.1	-	3.0	2.5	2.8	2.6	-
Optical instruments and lenses	383	43.4	42.5	44.9	44.3	-	3.7	2.6	4.0	3.8	-
Medical instruments and supplies	384	42.1	41.2	40.7	41.2	-	3.8	3.4	2.8	3.2	-
Surgical and medical instruments	3841	42.1	41.2	40.1	40.6	-	3.6	2.9	2.7	2.9	-
Surgical appliances and supplies	3842	41.9	41.2	41.2	41.5	-	3.9	3.7	3.0	3.4	-
Ophthalmic goods	385	39.8	39.7	40.3	40.7	-	2.2	2.5	3.2	3.4	-
Photographic equipment and supplies	386	42.7	44.3	43.7	42.7	-	4.2	4.4	4.6	4.6	-
Watches, clocks, and watchcases	387	40.0	40.3	42.4	41.5	-	2.8	1.7	3.5	2.3	-
Miscellaneous manufacturing	39	40.0	38.9	39.7	39.7	39.4	2.8	2.3	2.8	2.7	-
Jewelry, silverware, and plated ware	391	39.5	37.7	39.8	39.6	-	3.2	1.5	3.6	3.1	-
Jewelry, precious metal	3911	39.3	37.0	39.2	39.5	-	3.2	1.3	3.6	3.2	-
Musical instruments	393	41.7	41.0	39.9	40.6	-	3.1	2.7	2.5	3.3	-
Toys and sporting goods	394	39.7	39.3	39.6	39.2	-	2.5	2.4	2.1	2.0	-
Dolls, games, toys, and children's vehicles	3942,4	38.5	39.0	39.3	37.3	-	2.0	2.3	1.9	1.0	-
Sporting and athletic goods, nec	3949	40.6	39.5	39.8	40.5	-	2.8	2.6	2.3	2.7	-
Pens, pencils, office, and art supplies	395	42.0	41.0	39.5	39.9	-	3.4	2.9	2.6	3.0	-
Costume jewelry and notions	396	37.2	36.9	39.3	38.9	-	2.0	1.5	2.7	2.6	-
Costume jewelry	3961	35.5	35.3	38.4	38.5	-	1.7	1.0	2.8	2.3	-
Miscellaneous manufactures	399	40.6	39.0	40.0	40.3	-	2.9	2.7	3.2	2.9	-
Signs and advertising displays	3993	40.3	38.7	40.2	40.2	-	2.9	2.3	3.2	3.2	-
Nondurable goods		40.9	40.2	40.5	40.6	40.0	3.9	3.7	3.8	3.8	3.5
Food and kindred products	20	41.1	40.5	40.9	41.0	40.4	4.3	4.2	4.6	4.3	-
Meat products	201	41.0	41.5	41.1	40.7	-	4.7	5.0	4.9	4.5	-
Meat packing plants	2011	43.0	43.3	42.2	41.2	-	5.8	6.4	5.6	5.1	-
Sausages and other prepared meats	2013	40.9	40.5	41.1	41.6	-	4.7	4.2	4.7	5.0	-
Poultry dressing plants	2016	39.2	40.5	40.2	39.8	-	3.4	4.1	4.2	3.4	-
Dairy products	202	41.1	40.5	40.9	41.2	-	4.2	3.9	4.1	4.0	-
Cheese, natural and processed	2022	40.1	38.7	39.1	39.2	-	4.1	3.3	3.6	3.4	-
Fluid milk	2026	42.0	41.7	42.4	41.9	-	4.6	4.6	4.7	4.5	-
Preserved fruits and vegetables	203	39.8	38.8	40.0	39.8	-	3.5	3.1	4.2	3.9	-
Canned specialties	2032	41.4	40.3	44.0	44.4	-	6.4	5.5	6.7	7.1	-
Canned fruits and vegetables	2033	40.0	38.6	39.1	39.4	-	3.0	2.9	4.1	3.7	-
Frozen fruits and vegetables	2037	36.6	37.4	39.0	37.3	-	2.7	2.5	3.8	2.7	-
Grain mill products	204	45.0	45.0	45.2	46.3	-	6.4	6.5	6.9	7.3	-
Flour and other grain mill products	2041	47.0	45.2	48.0	47.6	-	6.9	5.9	7.9	7.2	-
Prepared feeds, nec	2048	43.8	44.6	43.3	43.9	-	6.5	7.0	6.5	6.7	-
Bakery products	205	40.5	39.4	40.2	40.2	-	4.1	3.8	4.2	4.0	-
Bread, cake, and related products	2051	39.3	38.3	38.7	38.9	-	3.9	3.6	4.2	4.0	-
Cookies and crackers	2052	43.5	42.2	44.0	43.4	-	4.6	4.1	4.2	3.9	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^b	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^b
Durable goods—Continued											
Transportation equipment	37	\$13.25	\$13.22	\$13.60	\$13.70	\$13.63	\$565.78	\$560.53	\$592.96	\$601.43	\$586.09
Motor vehicles and equipment	371	13.87	13.94	14.25	14.40	14.30	593.64	592.45	635.55	646.56	626.34
Motor vehicles and car bodies	3711	15.78	16.07	16.13	16.37	-	651.71	662.08	727.46	739.92	-
Truck and bus bodies	3713	11.70	11.76	11.70	12.15	-	497.25	493.92	479.70	518.81	-
Motor vehicle parts and accessories	3714	13.03	13.04	13.47	13.51	-	577.23	572.46	606.64	614.71	-
Truck trailers	3715	9.31	9.33	9.28	9.37	-	389.16	376.00	376.77	384.17	-
Aircraft and parts	372	13.48	13.37	13.91	13.98	-	587.73	573.57	600.91	608.13	-
Aircraft	3721	(^c)	(^c)	(^c)	(^c)	-	-	-	-	-	-
Aircraft engines and engine parts	3724	\$13.84	\$13.58	\$14.12	\$14.15	-	\$607.58	\$577.66	\$608.57	\$615.53	-
Aircraft equipment, nec	3728	12.47	12.36	12.77	12.92	-	549.93	542.80	558.05	573.65	-
Ship and boat building and repairing	373	10.50	10.54	10.51	10.44	-	429.45	430.03	428.81	420.73	-
Ship building and repairing	3731	11.73	11.73	11.68	11.65	-	483.28	486.80	483.55	471.83	-
Boat building and repairing	3732	8.19	8.23	8.56	8.52	-	330.86	325.09	340.89	340.80	-
Railroad equipment	374	12.34	12.28	12.40	12.36	-	526.92	513.30	540.64	529.01	-
Guided missiles, space vehicles, and parts	376	13.14	12.95	13.42	13.49	-	576.16	568.51	563.77	601.65	-
Guided missiles and space vehicles	3761	(^c)	(^c)	(^c)	(^c)	-	-	-	-	-	-
Miscellaneous transportation equipment	379	\$10.59	\$10.50	\$10.50	\$10.63	-	\$422.54	\$409.50	\$413.70	\$433.70	-
Travel trailers and campers	3792	6.73	6.71	6.93	9.06	-	325.63	320.53	343.81	351.53	-
Instruments and related products	38	9.84	9.93	10.05	10.11	10.18	415.25	415.07	422.10	424.62	420.43
Engineering and scientific instruments	381	10.75	10.74	11.17	11.10	-	467.63	455.38	473.61	483.96	-
Measuring and controlling devices	382	9.76	9.80	9.69	9.78	-	411.67	408.66	411.63	411.74	-
Environmental controls	3822	9.24	9.25	9.15	9.14	-	370.52	373.70	371.49	377.48	-
Process control instruments	3823	9.66	9.61	9.52	9.69	-	435.67	419.00	419.83	432.17	-
Instruments to measure electricity	3825	9.99	10.04	9.72	9.76	-	412.59	413.65	413.10	401.14	-
Optical instruments and lenses	383	10.54	10.53	11.11	11.10	-	457.44	447.53	498.84	491.73	-
Medical instruments and supplies	384	8.75	8.81	9.09	9.13	-	366.38	362.97	369.96	376.16	-
Surgical and medical instruments	3841	8.93	8.96	9.44	9.43	-	375.95	369.15	378.54	382.86	-
Surgical appliances and supplies	3842	8.54	8.62	8.72	8.81	-	357.83	355.14	359.26	365.62	-
Ophthalmic goods	385	7.56	7.49	7.69	7.64	-	300.89	297.35	309.91	310.95	-
Photographic equipment and supplies	386	13.46	13.80	13.59	14.00	-	574.74	611.34	593.88	597.80	-
Watches, clocks, and watchcases	387	7.19	7.19	7.37	7.37	-	287.60	289.76	312.49	305.86	-
Miscellaneous manufacturing	39	7.91	7.97	8.09	8.17	8.18	316.40	310.03	321.17	324.35	322.29
Jewelry, silverware, and plated ware	391	8.54	8.48	8.81	8.75	-	337.33	319.70	350.64	346.50	-
Jewelry, precious metal	3911	8.68	8.59	9.01	8.85	-	341.12	317.83	353.19	349.58	-
Musical instruments	393	7.77	7.85	8.03	8.18	-	324.01	321.85	320.40	332.11	-
Toys and sporting goods	394	7.25	7.29	7.25	7.33	-	287.83	286.50	287.10	287.34	-
Dolls, games, toys, and children's vehicles	3942,4	7.15	7.21	7.03	7.21	-	275.28	281.19	276.28	268.93	-
Sporting and athletic goods, nec	3949	7.33	7.34	7.42	7.40	-	297.60	289.93	295.32	299.70	-
Pens, pencils, office, and art supplies	395	7.80	7.97	8.03	7.96	-	327.60	328.77	317.19	317.60	-
Costume jewelry and notions	396	6.45	6.58	6.88	6.95	-	239.94	242.60	270.38	270.36	-
Costume jewelry	3961	5.97	6.06	6.54	6.45	-	211.94	213.92	251.14	248.33	-
Miscellaneous manufactures	399	8.65	8.71	8.86	8.96	-	351.19	339.69	354.40	361.09	-
Signs and advertising displays	3993	8.91	9.04	9.28	9.28	-	359.07	349.85	373.06	373.06	-
Nondurable goods		9.32	9.32	9.53	9.61	9.64	381.19	374.66	385.97	390.17	385.60
Food and kindred products	20	9.07	9.06	9.16	9.26	9.29	372.78	366.93	374.64	379.66	375.32
Meat products	201	7.54	7.56	7.66	7.71	-	309.14	313.74	314.83	313.80	-
Meat packing plants	2011	8.47	8.46	8.50	8.50	-	364.21	366.32	358.70	350.20	-
Sausages and other prepared meats	2013	8.91	8.98	9.05	9.17	-	364.42	363.69	371.96	381.47	-
Poultry dressing plants	2016	6.22	6.28	6.46	6.49	-	243.82	254.34	259.69	258.30	-
Dairy products	202	9.77	9.80	10.02	10.03	-	401.55	396.90	409.62	413.24	-
Cheese, natural and processed	2022	9.05	9.07	9.22	9.34	-	362.91	351.01	360.50	366.13	-
Fluid milk	2026	10.26	10.29	10.42	10.46	-	430.92	429.09	441.81	438.27	-
Preserved fruits and vegetables	203	8.55	8.55	8.34	8.70	-	340.29	331.74	333.60	346.26	-
Canned specialties	2032	10.38	10.33	10.33	10.54	-	429.73	416.30	454.52	467.98	-
Canned fruits and vegetables	2033	8.57	8.59	8.20	8.72	-	342.80	331.57	320.62	343.57	-
Frozen fruits and vegetables	2037	7.96	7.94	7.53	7.79	-	291.34	296.96	293.67	290.57	-
Grain mill products	204	11.04	11.04	11.29	11.31	-	496.80	496.80	510.31	523.65	-
Flour and other grain mill products	2041	10.68	10.60	11.18	11.10	-	501.96	479.12	536.64	528.36	-
Prepared feeds, nec	2048	8.64	8.66	8.66	8.62	-	378.43	368.24	374.98	378.42	-
Bakery products	205	10.22	10.17	10.38	10.40	-	413.91	400.70	417.28	418.08	-
Bread, cake, and related products	2051	10.16	10.15	10.36	10.36	-	399.29	388.75	400.93	403.00	-
Cookies and crackers	2052	10.36	10.20	10.44	10.49	-	450.66	430.44	459.36	455.27	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	41.7	40.8	41.7	41.4	-	3.9	3.6	4.3	4.0	-
Cane and beet sugar	2061-3	45.6	44.1	44.4	46.3	-	6.9	6.4	7.4	7.8	-
Confectionery products	2065	40.0	39.1	40.2	38.8	-	2.9	2.5	3.3	2.5	-
Fats and oils	207	44.2	44.4	44.5	43.7	-	5.7	6.2	5.7	5.3	-
Beverages	208	41.6	40.2	40.7	41.5	-	3.6	3.2	3.5	3.4	-
Malt beverages	2082	43.8	41.9	42.6	43.1	-	5.4	5.7	5.7	4.7	-
Bottled and canned soft drinks	2086	41.1	39.9	39.7	40.5	-	3.2	2.2	2.6	3.1	-
Misc. food and kindred products	209	39.4	37.8	38.5	38.4	-	4.0	3.3	3.9	3.6	-
Tobacco manufactures	21	40.5	39.2	40.3	39.8	38.1	3.6	3.4	2.6	2.7	-
Cigarettes	211	41.1	41.0	40.8	40.2	-	4.0	4.3	2.9	3.0	-
Textile mill products	22	42.1	41.3	41.4	41.3	40.5	4.5	4.2	4.2	4.2	-
Weaving mills, cotton	221	42.8	41.7	41.3	41.2	-	5.8	5.4	4.0	4.2	-
Weaving mills, synthetics	222	43.0	42.5	42.1	41.9	-	4.9	4.7	4.6	4.4	-
Weaving and finishing mills, wool	223	42.3	42.9	42.0	43.1	-	4.0	3.2	3.6	4.4	-
Narrow fabric mills	224	42.0	41.5	42.3	42.8	-	3.8	3.6	4.6	4.7	-
Knitting mills	225	40.1	39.3	40.2	39.7	-	3.4	3.2	3.7	3.6	-
Women's hosiery, except socks	2251	39.8	37.9	39.4	40.3	-	3.1	3.4	3.1	3.8	-
Hosiery, nec	2252	39.3	39.4	39.1	37.8	-	2.8	3.3	2.6	2.2	-
Knit outerwear mills	2253	38.1	38.7	40.3	38.3	-	3.0	2.5	4.3	3.1	-
Knit underwear mills	2254	42.0	37.9	39.2	38.8	-	2.2	1.8	2.0	2.1	-
Circular knit fabric mills	2257	43.4	41.7	40.9	42.5	-	5.5	5.0	4.9	5.5	-
Textile finishing, except wool	226	42.7	42.0	42.4	43.6	-	5.1	5.0	5.5	5.8	-
Finishing plants, cotton	2261	43.2	42.0	43.5	44.0	-	5.4	5.5	6.2	6.4	-
Finishing plants, synthetics	2262	43.0	42.8	41.9	43.2	-	5.0	5.1	5.0	5.5	-
Floor covering mills	227	44.5	41.7	43.3	42.6	-	4.5	3.5	4.5	4.3	-
Yarn and thread mills	228	42.3	41.8	40.6	40.7	-	4.8	4.7	3.9	4.0	-
Yarn mills, except wool	2281	42.9	42.5	41.1	41.1	-	5.0	4.9	4.2	4.1	-
Throwing and winding mills	2282	38.2	37.9	38.3	38.2	-	3.1	2.7	2.5	3.0	-
Miscellaneous textile goods	229	43.8	43.1	42.4	42.6	-	5.3	4.8	4.4	4.6	-
Apparel and other textile products	23	37.6	36.6	37.3	37.1	36.7	2.0	1.9	2.0	1.9	-
Men's and boys' suits and coats	231	37.1	36.9	37.0	38.1	-	1.7	1.6	1.4	1.6	-
Men's and boys' furnishings	232	37.4	36.7	37.0	36.9	-	1.8	1.7	1.6	1.5	-
Men's and boys' shirts and nightwear	2321	37.7	36.1	37.3	37.2	-	1.6	1.5	1.3	1.2	-
Men's and boys' separate trousers	2327	37.8	36.9	35.9	36.7	-	1.7	1.6	1.2	1.5	-
Men's and boys' work clothing	2328	36.3	36.8	35.9	35.8	-	1.7	2.0	1.4	1.6	-
Women's and misses' outerwear	233	36.1	35.5	35.8	35.6	-	1.7	1.7	1.6	1.5	-
Women's and misses' blouses and waists	2331	35.8	34.8	36.1	35.3	-	1.5	1.4	1.3	1.2	-
Women's and misses' dresses	2335	35.0	35.1	35.0	35.1	-	1.3	1.4	1.4	1.4	-
Women's and misses' suits and coats	2337	35.4	34.8	36.0	35.5	-	1.6	1.5	2.2	2.0	-
Women's and misses' outerwear, nec	2339	36.8	35.9	36.0	36.0	-	1.9	2.0	1.7	1.5	-
Women's and children's undergarments	234	38.2	37.7	38.4	37.4	-	1.9	1.7	2.0	1.7	-
Women's and children's underwear	2341	38.5	37.6	38.9	37.8	-	1.8	1.5	1.9	1.5	-
Brassieres and allied garments	2342	36.3	38.0	35.9	35.3	-	2.3	3.0	2.2	2.7	-
Children's outerwear	236	38.3	37.5	37.5	36.9	-	2.2	2.4	1.8	1.9	-
Children's dresses and blouses	2361	37.2	36.0	37.3	36.3	-	2.1	2.2	1.7	1.8	-
Misc. apparel and accessories	238	39.3	37.2	39.1	38.5	-	2.4	2.0	2.9	1.9	-
Misc. fabricated textile products	239	39.9	37.9	39.5	39.4	-	3.1	2.4	3.3	3.3	-
Curtains and draperies	2391	37.5	34.1	36.2	35.9	-	1.6	.8	1.2	1.5	-
House furnishings, nec	2392	39.7	37.6	39.7	38.9	-	3.2	2.2	3.3	2.8	-
Automotive and apparel trimmings	2396	42.2	40.4	43.4	43.0	-	5.4	4.5	6.9	6.8	-
Paper and allied products	26	44.2	43.5	43.4	43.8	42.5	5.5	5.2	5.1	5.3	-
Paper and pulp mills	261,2,6	46.0	45.4	45.4	46.1	-	6.8	6.3	6.4	6.9	-
Paper mills, except building paper	262	46.3	45.5	45.6	46.3	-	7.0	6.5	6.5	7.0	-
Paperboard mills	263	44.8	45.1	44.4	43.9	-	7.3	7.1	6.7	7.1	-
Misc. converted paper products	264	43.0	42.4	41.8	42.1	-	4.3	4.2	4.0	4.0	-
Paper coating and glazing	2641	44.7	43.6	42.9	44.1	-	4.7	4.0	4.3	4.3	-
Envelopes	2642	42.3	42.0	41.2	41.2	-	3.8	4.1	3.3	3.6	-
Bags, except textile bags	2643	43.1	42.7	41.9	42.5	-	4.8	4.7	4.5	4.6	-
Paperboard containers and boxes	265	43.8	42.7	43.1	43.5	-	5.1	4.7	4.8	4.8	-
Folding paperboard boxes	2651	43.6	43.1	43.0	43.9	-	5.2	5.0	4.7	5.1	-
Corrugated and solid fiber boxes	2653	44.2	43.3	43.7	43.5	-	5.5	4.9	5.4	4.9	-
Sanitary food containers	2654	44.0	41.9	42.5	44.7	-	4.7	4.3	3.5	4.5	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	\$9.07	\$9.24	\$9.27	\$9.38	-	\$378.22	\$376.99	\$386.56	\$388.33	-
Cane and beet sugar	2061-3	10.17	10.27	10.41	10.84	-	463.75	452.91	462.20	501.89	-
Confectionery products	2065	7.97	8.15	8.23	8.18	-	318.80	318.67	330.85	317.38	-
Fats and oils	207	9.26	9.23	9.30	9.42	-	409.29	409.81	413.85	411.65	-
Beverages	208	12.07	11.91	12.34	12.27	-	502.11	478.78	502.24	509.21	-
Malt beverages	2082	16.48	16.50	17.26	16.94	-	721.82	691.35	735.28	730.11	-
Bottled and canned soft drinks	2086	9.50	9.43	9.82	9.94	-	390.45	376.26	389.85	402.57	-
Misc. food and kindred products	209	8.48	8.51	8.68	8.63	-	334.11	321.68	334.18	331.39	-
Tobacco manufactures	21	13.69	13.79	14.43	14.57	\$14.43	554.45	540.57	581.53	579.89	\$549.78
Cigarettes	211	17.10	17.08	17.73	18.00	-	702.81	700.28	723.38	723.60	-
Textile mill products	22	7.31	7.34	7.47	7.52	7.58	307.75	303.14	309.26	310.58	306.99
Weaving mills, cotton	221	7.70	7.71	7.69	7.75	-	329.56	321.51	317.60	319.30	-
Weaving mills, synthetics	222	7.83	7.88	8.04	8.06	-	336.69	334.90	338.48	337.71	-
Weaving and finishing mills, wool	223	7.80	7.79	8.18	8.20	-	329.94	334.19	343.56	353.42	-
Narrow fabric mills	224	6.69	6.74	6.91	6.93	-	280.98	279.71	292.29	296.60	-
Knitting mills	225	6.65	6.72	6.73	6.80	-	266.67	264.10	270.55	259.96	-
Women's hosiery, except socks	2251	6.55	6.71	6.67	6.72	-	260.69	254.31	262.80	270.82	-
Hosiery, nec	2252	6.29	6.40	6.51	6.46	-	247.20	252.16	254.54	244.19	-
Knit outerwear mills	2253	6.65	6.57	6.34	6.42	-	253.37	254.26	255.50	245.89	-
Knit underwear mills	2254	6.19	6.46	6.59	6.57	-	259.98	244.83	258.33	254.92	-
Circular knit fabric mills	2257	7.33	7.37	7.61	7.77	-	318.12	307.33	311.25	330.23	-
Textile finishing, except wool	226	7.63	7.63	7.96	7.99	-	325.80	320.46	337.50	348.36	-
Finishing plants, cotton	2261	7.68	7.67	7.93	7.99	-	331.78	322.14	344.96	351.56	-
Finishing plants, synthetics	2262	7.85	7.87	8.19	8.30	-	337.55	336.84	343.16	358.56	-
Floor covering mills	227	7.62	7.59	7.82	7.79	-	339.09	316.50	338.61	331.85	-
Yarn and thread mills	228	6.96	7.00	7.19	7.24	-	294.41	292.60	291.91	294.67	-
Yarn mills, except wool	2281	6.93	6.98	7.17	7.21	-	297.30	296.65	294.69	296.33	-
Throwing and winding mills	2282	7.18	7.18	7.27	7.43	-	274.28	272.12	278.44	283.83	-
Miscellaneous textile goods	229	8.28	8.31	8.57	8.69	-	362.66	358.16	363.37	370.19	-
Apparel and other textile products	23	6.00	6.02	6.23	6.27	6.31	225.60	220.33	232.38	232.62	231.58
Men's and boys' suits and coats	231	6.84	6.87	7.03	7.03	-	253.76	253.50	260.11	267.84	-
Men's and boys' furnishings	232	5.52	5.59	5.68	5.71	-	206.45	205.15	210.16	210.70	-
Men's and boys' shirts and nightwear	2321	5.36	5.45	5.58	5.58	-	202.07	196.75	208.13	207.58	-
Men's and boys' separate trousers	2327	5.47	5.47	5.47	5.59	-	206.77	201.84	196.37	205.15	-
Men's and boys' work clothing	2328	5.53	5.60	5.63	5.73	-	200.74	206.08	202.12	205.13	-
Women's and misses' outerwear	233	5.75	5.76	6.01	6.08	-	207.58	204.48	215.16	216.45	-
Women's and misses' blouses and waists	2331	5.08	5.13	5.14	5.23	-	181.86	178.52	185.55	184.62	-
Women's and misses' dresses	2335	6.12	6.02	6.43	6.58	-	214.20	211.30	225.05	230.96	-
Women's and misses' suits and coats	2337	6.50	6.45	6.67	6.64	-	230.10	224.46	240.12	235.72	-
Women's and misses' outerwear, nec	2339	5.60	5.66	5.88	5.93	-	206.08	203.19	211.68	213.48	-
Women's and children's undergarments	234	5.58	5.62	5.78	5.71	-	213.16	211.87	221.95	213.55	-
Women's and children's underwear	2341	5.39	5.42	5.64	5.58	-	207.52	203.79	219.40	210.92	-
Brassieres and allied garments	2342	6.71	6.73	6.58	6.49	-	243.57	255.74	236.22	229.10	-
Children's outerwear	236	5.39	5.44	5.56	5.57	-	206.44	204.00	208.50	205.53	-
Children's dresses and blouses	2361	5.30	5.34	5.62	5.67	-	197.16	192.24	209.63	205.82	-
Misc. apparel and accessories	238	5.82	5.83	6.12	6.00	-	228.73	216.88	239.29	231.00	-
Misc. fabricated textile products	239	7.25	7.23	7.48	7.59	-	289.28	274.02	295.46	299.05	-
Curtains and draperies	2391	5.84	5.88	6.05	6.10	-	219.00	200.51	219.01	218.99	-
House furnishings, nec	2392	6.10	6.15	6.29	6.31	-	242.17	231.24	249.71	245.46	-
Automotive and apparel trimmings	2396	11.21	11.12	11.59	11.89	-	473.06	449.25	503.01	511.27	-
Paper and allied products	26	11.53	11.54	11.72	11.78	11.78	509.63	501.99	508.65	515.96	500.65
Paper and pulp mills	261,2,6	14.09	13.99	14.51	14.47	-	648.14	635.15	658.75	667.07	-
Paper mills, except building paper	262	14.17	14.04	14.57	14.50	-	656.07	638.82	664.39	671.35	-
Paperboard mills	263	14.47	14.41	14.58	14.60	-	648.26	649.89	647.35	640.94	-
Misc. converted paper products	264	10.04	10.10	10.13	10.28	-	431.72	428.24	423.43	432.79	-
Paper coating and glazing	2641	11.26	11.23	11.30	11.40	-	503.32	489.63	484.77	502.74	-
Envelopes	2642	9.49	9.50	9.60	9.79	-	401.43	399.00	395.52	403.35	-
Bags, except textile bags	2643	9.20	9.34	9.46	9.45	-	396.52	398.82	396.37	401.63	-
Paperboard containers and boxes	265	9.91	9.93	10.03	10.08	-	434.06	424.01	432.29	438.48	-
Folding paperboard boxes	2651	10.37	10.33	10.47	10.59	-	452.13	445.22	450.21	464.90	-
Corrugated and solid fiber boxes	2653	10.08	10.05	10.23	10.23	-	445.54	435.17	447.05	445.01	-
Sanitary food containers	2654	9.55	9.72	9.86	9.97	-	420.20	407.27	419.05	445.66	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a
Nondurable goods—Continued											
Printing and publishing	27	38.7	37.8	38.1	38.4	37.7	3.4	2.9	3.3	3.2	-
Newspapers	271	34.2	32.6	34.0	33.8	-	1.8	1.1	1.8	1.5	-
Periodicals	272	38.3	38.0	38.1	38.2	-	3.4	3.2	3.0	3.1	-
Books	273	40.1	39.8	38.3	39.5	-	3.9	3.9	3.1	3.7	-
Book publishing	2731	38.7	38.8	37.4	38.5	-	3.0	3.5	2.0	2.8	-
Book printing	2732	42.3	41.3	39.6	41.1	-	5.4	4.6	4.7	5.0	-
Miscellaneous publishing	274	37.3	37.0	36.4	38.8	-	2.9	2.8	2.5	2.0	-
Commercial printing	275	40.0	39.1	39.6	39.8	-	3.8	3.3	3.9	3.8	-
Commercial printing, letterpress	2751	39.8	39.1	39.5	39.7	-	3.5	2.9	3.4	3.3	-
Commercial printing, lithographic	2752	39.8	39.0	39.4	39.7	-	3.8	3.4	4.0	3.9	-
Manifold business forms	276	44.1	42.0	41.8	42.6	-	5.8	4.5	4.2	4.9	-
Blankbooks and bookbinding	278	40.6	39.1	39.2	39.8	-	3.8	3.1	3.4	3.3	-
Printing trade services	279	39.1	38.4	38.7	38.7	-	4.4	4.3	4.0	3.8	-
Chemicals and allied products	28	43.0	42.5	42.6	43.0	42.5	4.2	4.1	4.1	4.3	-
Industrial inorganic chemicals	281	43.2	43.1	43.0	43.8	-	4.3	4.2	4.5	4.5	-
Industrial inorganic chemicals, nec	2819	43.4	43.7	42.9	44.2	-	4.0	4.1	4.4	4.4	-
Plastics materials and synthetics	282	43.6	43.5	43.7	43.5	-	4.4	4.7	5.0	5.0	-
Plastics materials and resins	2821	44.7	44.3	44.4	44.2	-	5.2	5.0	5.4	5.5	-
Organic fibers, noncellulosic	2824	43.0	42.7	43.3	43.4	-	3.8	4.2	4.6	4.7	-
Drugs	283	42.1	41.9	41.2	42.3	-	3.6	3.4	3.6	3.9	-
Pharmaceutical preparations	2834	42.2	41.4	41.0	41.9	-	3.7	3.4	3.6	3.9	-
Soap, cleaners, and toilet goods	284	41.7	40.1	40.5	40.8	-	3.5	3.2	2.5	2.8	-
Soap and other detergents	2841	44.9	43.0	43.4	44.2	-	5.6	5.3	4.3	4.4	-
Polishing, sanitation, and finishing preparations	2842,3	42.5	41.4	40.6	41.5	-	3.3	3.2	2.5	3.2	-
Toilet preparations	2844	39.4	37.7	38.8	38.6	-	2.4	2.0	1.5	1.7	-
Paints and allied products	285	42.0	41.7	41.7	42.3	-	3.0	3.7	3.2	3.4	-
Industrial organic chemicals	286	45.3	44.7	44.8	44.7	-	5.7	5.3	5.5	5.6	-
Cyclic crudes and intermediates	2865	44.8	43.7	42.4	42.7	-	6.3	5.4	4.4	4.8	-
Gum, wood, and industrial organic chemicals, nec	2861,9	45.4	45.0	45.4	45.2	-	5.5	5.3	5.8	5.8	-
Agricultural chemicals	287	43.6	43.3	43.6	44.2	-	4.9	5.0	4.7	4.8	-
Miscellaneous chemical products	289	42.3	41.2	42.4	42.8	-	3.7	3.3	3.8	3.9	-
Petroleum and coal products	29	44.5	44.2	44.2	44.2	44.2	5.1	5.1	5.3	5.3	-
Petroleum refining	291	44.4	44.5	44.6	44.9	-	4.7	5.1	5.2	5.4	-
Paving and roofing materials	295	45.8	43.8	43.5	42.4	-	7.5	6.2	6.7	5.4	-
Rubber and misc. plastics products	30	42.4	41.8	41.9	42.1	41.7	4.6	4.2	4.3	4.4	-
Tires and inner tubes	301	46.2	46.3	45.2	45.5	-	6.7	6.5	6.4	6.7	-
Rubber and plastics footwear	302	44.1	42.7	40.3	40.1	-	3.7	3.0	2.3	2.2	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	45.3	45.8	43.9	44.4	-	5.3	5.2	4.2	4.7	-
Fabricated rubber products, nec	306	42.8	41.8	41.8	42.1	-	4.5	4.0	3.9	3.8	-
Miscellaneous plastics products	307	41.8	41.1	41.5	41.6	-	4.3	3.9	4.2	4.3	-
Leather and leather products	31	38.6	37.6	37.4	38.2	37.8	2.3	1.9	2.1	2.0	-
Leather tanning and finishing	311	42.1	41.1	40.8	41.7	-	4.9	4.3	4.0	4.8	-
Footwear, except rubber	314	38.2	37.3	36.7	37.9	-	1.9	1.6	1.6	1.6	-
Men's footwear, except athletic	3143	38.0	37.1	35.9	37.1	-	1.6	1.2	1.0	1.2	-
Women's footwear, except athletic	3144	38.5	37.4	36.9	39.1	-	2.2	2.2	2.2	1.9	-
Luggage	316	40.5	40.1	39.2	37.6	-	3.8	3.0	3.8	2.2	-
Handbags and personal leather goods	317	36.9	35.8	36.8	37.0	-	2.2	2.0	2.2	2.0	-
Transportation and public utilities		39.2	39.0	39.3	39.5	39.1	-	-	-	-	-
Railroad transportation:											
Class I railroads ^a	4011	44.0	44.1	46.0	45.5	-	-	-	-	-	-
Local and interurban passenger transit	41	33.6	33.4	33.7	34.1	-	-	-	-	-	-
Local and suburban transportation	411	36.3	38.3	38.4	36.6	-	-	-	-	-	-
Intercity highway transportation	413	38.4	38.9	39.2	39.3	-	-	-	-	-	-
Trucking and warehousing	42	38.4	37.4	38.3	39.1	-	-	-	-	-	-
Trucking and trucking terminals	421,3	38.3	37.3	38.2	39.0	-	-	-	-	-	-
Public warehousing	422	39.8	36.5	40.3	39.9	-	-	-	-	-	-
Pipe lines, except natural gas	46	43.3	42.8	41.0	42.5	-	-	-	-	-	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a
Nondurable goods—Continued											
Printing and publishing	27	\$10.43	\$10.38	\$10.68	\$10.72	\$10.75	\$403.64	\$392.36	\$406.91	\$411.65	\$405.28
Newspapers	271	10.33	10.36	10.64	10.72	-	353.29	337.74	361.76	362.34	-
Periodicals	272	10.71	10.71	11.21	11.25	-	410.19	406.98	427.10	429.75	-
Books	273	9.38	9.41	9.68	9.63	-	376.14	374.52	370.74	380.39	-
Book publishing	2731	8.94	9.00	9.38	9.37	-	345.98	349.20	350.81	360.75	-
Book printing	2732	10.04	10.06	10.11	10.00	-	424.69	415.48	400.36	411.00	-
Miscellaneous publishing	274	9.69	9.72	9.99	9.96	-	361.44	359.64	363.64	366.53	-
Commercial printing	275	10.73	10.64	10.95	10.99	-	429.20	416.02	433.62	437.40	-
Commercial printing, letterpress	2751	10.36	10.28	10.49	10.55	-	412.33	401.95	414.36	418.84	-
Commercial printing, lithographic	2752	10.83	10.75	11.11	11.15	-	431.03	419.25	437.73	442.66	-
Manifold business forms	276	11.05	10.84	11.04	11.26	-	487.31	455.28	461.47	479.68	-
Blankbooks and bookbinding	278	8.42	8.26	8.50	8.56	-	341.85	322.97	333.20	340.69	-
Printing trade services	279	12.75	12.94	13.13	13.18	-	498.53	496.90	508.13	510.07	-
Chemicals and allied products	28	12.61	12.55	12.87	12.95	12.92	542.23	533.38	548.26	556.85	549.10
Industrial inorganic chemicals	281	13.75	13.70	14.07	14.02	-	594.00	590.47	605.01	614.08	-
Industrial inorganic chemicals, nec	2819	13.77	13.73	14.03	13.99	-	597.62	600.00	601.89	618.36	-
Plastics materials and synthetics	282	12.82	12.76	13.27	13.26	-	558.95	555.06	579.90	576.81	-
Plastics materials and resins	2821	13.73	13.59	14.27	14.26	-	613.73	602.04	633.59	630.29	-
Organic fibers, noncellulosic	2824	12.26	12.30	12.54	12.49	-	527.18	525.21	542.98	542.07	-
Drugs	283	11.95	11.85	12.38	12.42	-	503.10	496.52	510.06	525.37	-
Pharmaceutical preparations	2834	11.57	11.57	12.04	12.20	-	488.25	479.00	493.64	511.18	-
Soap, cleaners, and toilet goods	284	11.12	11.12	11.08	11.34	-	463.70	445.91	448.74	462.67	-
Soap and other detergents	2841	14.43	14.46	14.77	15.00	-	647.91	621.78	841.02	663.00	-
Polishing, sanitation, and finishing preparations	2842,3	10.18	10.16	10.21	10.31	-	432.65	420.62	414.53	427.87	-
Toilet preparations	2844	9.45	9.43	9.29	9.57	-	372.33	355.51	360.45	369.40	-
Paints and allied products	285	10.98	11.13	11.42	11.51	-	461.16	464.12	476.21	486.87	-
Industrial organic chemicals	286	15.04	14.86	15.19	15.28	-	681.31	664.24	680.51	683.02	-
Cyclic crudes and intermediates	2865	15.22	14.69	14.57	14.74	-	681.86	641.95	617.77	629.40	-
Gum, wood, and industrial organic chemicals, nec	2861,9	14.99	14.90	15.34	15.41	-	680.55	670.50	696.44	696.53	-
Agricultural chemicals	287	12.43	12.35	12.55	12.67	-	541.95	534.76	547.18	560.01	-
Miscellaneous chemical products	289	11.56	11.45	11.64	11.85	-	488.99	471.74	493.54	507.18	-
Petroleum and coal products	29	14.73	14.89	15.25	15.29	15.30	655.49	658.14	674.05	675.82	676.26
Petroleum refining	291	15.79	15.91	16.39	16.37	-	701.08	708.00	730.99	735.01	-
Paving and roofing materials	295	11.56	11.39	11.81	11.61	-	529.45	498.88	513.74	492.26	-
Rubber and misc. plastics products	30	9.04	9.00	9.22	9.28	9.37	383.30	376.20	386.32	390.69	390.73
Tires and inner tubes	301	14.21	14.26	14.59	14.53	-	656.50	660.24	659.47	661.12	-
Rubber and plastics footwear	302	6.25	6.17	6.56	6.51	-	275.63	263.46	264.37	261.05	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	9.06	9.02	9.32	9.29	-	410.42	413.12	409.15	412.48	-
Fabricated rubber products, nec	306	8.90	8.85	8.83	8.77	-	380.92	369.93	369.09	369.22	-
Miscellaneous plastics products	307	8.42	8.35	8.59	8.68	-	351.96	343.19	356.49	361.09	-
Leather and leather products	31	6.16	6.16	6.42	6.43	6.50	237.78	231.62	240.11	245.63	245.70
Leather tanning and finishing	311	8.33	8.32	8.49	8.71	-	350.69	341.95	346.39	363.21	-
Footwear, except rubber	314	5.85	5.85	6.17	6.14	-	223.47	218.21	226.44	232.71	-
Men's footwear, except athletic	3143	6.22	6.22	6.63	6.54	-	236.36	230.76	238.02	242.63	-
Women's footwear, except athletic	3144	5.56	5.54	5.86	5.86	-	214.06	207.20	216.23	229.13	-
Luggage	316	6.50	6.43	6.20	6.30	-	263.25	257.84	243.04	236.88	-
Handbags and personal leather goods	317	5.76	5.82	6.01	5.85	-	212.54	208.36	221.17	216.45	-
Transportation and public utilities		12.24	12.16	12.46	12.42	12.50	479.81	474.24	489.68	490.59	488.75
Railroad transportation:											
Class I railroads ³	4011	14.87	14.75	15.11	15.28	-	654.28	650.48	695.06	695.24	-
Local and interurban passenger transit	41	8.30	8.37	8.67	8.67	-	278.88	279.56	292.18	295.65	-
Local and suburban transportation	411	9.00	9.01	9.23	9.29	-	344.70	345.08	354.43	358.59	-
Intercity highway transportation	413	11.53	11.36	11.36	11.36	-	442.75	441.90	445.31	446.45	-
Trucking and warehousing	42	10.96	10.84	11.07	11.10	-	420.86	405.42	423.98	434.01	-
Trucking and trucking terminals	421,3	11.16	11.02	11.26	11.27	-	427.43	411.05	430.13	439.53	-
Public warehousing	422	8.50	8.60	8.93	9.03	-	338.30	331.10	359.88	360.30	-
Pipe lines, except natural gas	46	15.78	15.69	15.94	16.31	-	683.27	671.53	653.54	693.18	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^a	Jan. 1989 ^a
Transportation and public utilities—Continued											
Communication	48	40.0	40.0	39.7	39.1	-	-	-	-	-	-
Telephone communication	481	41.4	41.3	41.2	40.3	-	-	-	-	-	-
Radio and television broadcasting	483	35.9	36.2	35.8	35.6	-	-	-	-	-	-
Electric, gas, and sanitary services	49	41.9	41.8	42.0	41.9	-	-	-	-	-	-
Electric services	491	41.3	41.4	42.0	42.0	-	-	-	-	-	-
Gas production and distribution	492	41.4	41.7	41.6	41.9	-	-	-	-	-	-
Combination utility services	493	43.0	42.3	42.6	42.4	-	-	-	-	-	-
Sanitary services	495	43.8	43.1	41.9	41.4	-	-	-	-	-	-
Wholesale trade		38.2	37.9	38.0	38.2	38.1	-	-	-	-	-
Durable goods	50	38.7	38.4	38.4	38.7	-	-	-	-	-	-
Motor vehicles and automotive equipment	501	38.7	38.4	37.8	38.0	-	-	-	-	-	-
Furniture and home furnishings	502	37.8	37.4	37.0	37.8	-	-	-	-	-	-
Lumber and construction materials	503	39.2	38.2	39.2	39.4	-	-	-	-	-	-
Sporting goods, toys, and hobby goods	504	36.5	36.0	35.7	35.8	-	-	-	-	-	-
Metals and minerals, except petroleum	505	41.3	40.5	40.4	41.0	-	-	-	-	-	-
Electrical goods	506	38.4	37.9	37.8	38.3	-	-	-	-	-	-
Hardware, plumbing, and heating equipment	507	38.5	38.5	38.7	38.8	-	-	-	-	-	-
Machinery, equipment, and supplies	508	38.9	38.7	38.7	38.9	-	-	-	-	-	-
Miscellaneous durable goods	509	38.0	37.2	38.4	38.4	-	-	-	-	-	-
Nondurable goods	51	37.6	37.3	37.2	37.5	-	-	-	-	-	-
Paper and paper products	511	37.2	36.9	36.6	37.4	-	-	-	-	-	-
Drugs, proprietaries, and sundries	512	37.6	37.3	37.0	37.0	-	-	-	-	-	-
Apparel, piece goods, and notions	513	37.5	37.0	36.9	36.7	-	-	-	-	-	-
Groceries and related products	514	38.1	37.8	37.9	38.2	-	-	-	-	-	-
Chemicals and allied products	516	39.3	39.1	39.7	39.8	-	-	-	-	-	-
Petroleum and petroleum products	517	38.7	39.0	38.2	38.6	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	36.0	35.3	36.0	36.4	-	-	-	-	-	-
Miscellaneous nondurable goods	519	36.9	36.4	36.3	36.7	-	-	-	-	-	-
Retail trade		29.3	28.3	28.8	29.5	28.6	-	-	-	-	-
Building materials and garden supplies	52	36.3	35.6	36.3	36.3	-	-	-	-	-	-
Lumber and other building materials	521	38.0	37.1	38.2	37.9	-	-	-	-	-	-
Hardware stores	525	33.2	32.5	32.5	33.3	-	-	-	-	-	-
General merchandise stores	53	28.8	25.9	27.4	30.3	-	-	-	-	-	-
Department stores	531	28.3	25.5	27.0	30.0	-	-	-	-	-	-
Variety stores	533	31.1	28.3	29.0	32.2	-	-	-	-	-	-
Misc. general merchandise stores	539	31.1	28.5	29.2	31.1	-	-	-	-	-	-
Food stores	54	29.8	29.6	29.9	29.9	-	-	-	-	-	-
Grocery stores	541	29.9	29.8	30.0	30.0	-	-	-	-	-	-
Retail bakeries	546	28.0	27.4	28.9	29.8	-	-	-	-	-	-
Automotive dealers and service stations	55	36.2	36.3	36.2	36.2	-	-	-	-	-	-
New and used car dealers	551,2	37.1	37.2	37.1	37.1	-	-	-	-	-	-
Auto and home supply stores	553	38.5	38.5	38.3	38.3	-	-	-	-	-	-
Gasoline service stations	554	33.8	34.1	33.8	33.9	-	-	-	-	-	-
Apparel and accessory stores	56	27.5	25.6	26.8	28.1	-	-	-	-	-	-
Men's and boys' clothing and furnishings	561	30.5	28.9	28.3	30.5	-	-	-	-	-	-
Women's ready-to-wear stores	562	25.8	23.9	24.8	26.0	-	-	-	-	-	-
Family clothing stores	565	28.0	25.2	27.0	28.0	-	-	-	-	-	-
Shoe stores	566	28.3	26.7	28.5	29.9	-	-	-	-	-	-
Furniture and home furnishings stores	57	33.5	32.7	32.7	33.7	-	-	-	-	-	-
Furniture and home furnishings stores	571	33.5	32.8	33.5	34.0	-	-	-	-	-	-
Household appliance stores	572	34.2	33.6	33.5	34.8	-	-	-	-	-	-
Radio, television, and music stores	573	33.4	32.2	31.1	32.8	-	-	-	-	-	-
Eating and drinking places ⁴	58	25.5	24.9	25.4	25.5	-	-	-	-	-	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^P	Jan. 1989 ^P	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^P	Jan. 1989 ^P
Transportation and public utilities—Continued											
Communication	48	\$12.64	\$12.57	\$12.94	\$12.86	-	\$505.60	\$502.80	\$513.72	\$502.83	-
Telephone communication	481	13.38	13.29	13.67	13.58	-	553.93	548.88	563.20	547.27	-
Radio and television broadcasting	483	11.15	11.19	11.87	11.90	-	400.29	405.08	424.95	423.64	-
Electric, gas, and sanitary services	49	14.03	13.98	14.67	14.61	-	587.86	584.36	616.14	612.16	-
Electric services	491	14.05	13.94	14.79	14.70	-	580.27	577.12	621.18	617.40	-
Gas production and distribution	492	13.25	13.25	13.63	13.68	-	548.55	552.53	567.01	573.19	-
Combination utility services	493	16.51	16.58	17.27	17.19	-	709.93	701.33	735.70	728.86	-
Sanitary services	495	10.59	10.45	11.27	11.26	-	463.84	450.40	472.21	466.16	-
Wholesale trade		9.73	9.78	10.05	10.12	\$10.23	371.69	370.66	381.90	386.58	\$389.76
Durable goods	50	9.90	9.96	10.28	10.33	-	383.13	382.46	394.75	399.77	-
Motor vehicles and automotive equipment	501	8.98	9.05	9.25	9.36	-	347.53	347.52	349.65	355.68	-
Furniture and home furnishings	502	8.88	9.01	9.40	9.51	-	335.66	336.97	347.80	359.48	-
Lumber and construction materials	503	9.47	9.47	9.83	9.90	-	371.22	361.75	385.34	390.06	-
Sporting goods, toys, and hobby goods	504	9.63	9.72	9.28	9.20	-	351.50	349.92	331.30	329.36	-
Metals and minerals, except petroleum	505	10.53	10.55	10.66	10.83	-	434.89	427.28	430.66	444.03	-
Electrical goods	506	10.27	10.33	10.76	10.81	-	394.37	391.51	406.73	414.02	-
Hardware, plumbing, and heating equipment	507	9.31	9.36	9.55	9.63	-	358.44	360.36	369.59	373.64	-
Machinery, equipment, and supplies	508	10.56	10.62	11.04	11.03	-	410.78	410.99	427.25	429.07	-
Miscellaneous durable goods	509	7.89	7.97	8.11	8.27	-	299.82	296.48	311.42	317.57	-
Nondurable goods	51	9.48	9.51	9.71	9.80	-	356.45	354.72	361.21	367.50	-
Paper and paper products	511	10.24	10.28	10.65	10.64	-	380.93	379.33	389.79	397.94	-
Drugs, proprietaries, and sundries	512	10.91	10.99	11.19	11.23	-	410.22	409.93	414.03	415.51	-
Apparel, piece goods, and notions	513	9.19	9.42	9.41	9.49	-	344.63	348.54	347.23	348.28	-
Groceries and related products	514	9.62	9.61	9.87	9.95	-	366.52	363.26	374.07	380.09	-
Chemicals and allied products	516	12.15	12.21	12.27	12.27	-	477.50	477.41	487.12	488.35	-
Petroleum and petroleum products	517	9.67	9.64	9.78	9.90	-	374.23	375.96	373.60	382.14	-
Beer, wine, and distilled beverages	518	11.23	10.91	11.30	11.61	-	404.28	385.12	406.80	422.60	-
Miscellaneous nondurable goods	519	7.76	7.80	7.96	8.07	-	286.34	283.92	288.95	296.17	-
Retail trade		6.19	6.24	6.43	6.41	6.47	181.37	176.59	185.18	189.10	185.04
Building materials and garden supplies	52	7.20	7.25	7.51	7.55	-	261.36	258.10	272.61	274.07	-
Lumber and other building materials	521	7.59	7.61	7.92	7.99	-	288.42	282.33	302.54	302.82	-
Hardware stores	525	6.04	6.12	6.22	6.24	-	200.53	198.90	202.15	207.79	-
General merchandise stores	53	6.57	6.50	6.65	6.61	-	189.22	168.35	182.21	200.28	-
Department stores	531	6.90	6.80	6.96	6.91	-	195.27	173.40	187.92	207.30	-
Variety stores	533	4.99	4.92	5.11	5.14	-	155.19	139.24	148.19	165.51	-
Misc. general merchandise stores	539	4.96	5.19	5.33	5.30	-	154.26	147.92	155.64	164.83	-
Food stores	54	6.89	6.96	7.24	7.06	-	205.32	206.02	216.48	211.09	-
Grocery stores	541	7.04	7.09	7.36	7.19	-	210.50	211.28	220.80	215.70	-
Retail bakeries	546	5.81	5.82	6.06	6.05	-	162.68	159.47	175.13	180.29	-
Automotive dealers and service stations	55	7.86	7.89	8.25	8.29	-	284.53	286.41	298.65	300.10	-
New and used car dealers	551,2	9.48	9.50	9.99	10.03	-	351.71	353.40	370.63	372.11	-
Auto and home supply stores	553	6.80	6.85	7.19	7.27	-	261.80	263.73	275.38	278.44	-
Gasoline service stations	554	5.68	5.70	5.84	5.88	-	191.98	194.37	197.39	199.33	-
Apparel and accessory stores	56	5.61	5.72	5.85	5.86	-	154.28	146.43	156.78	164.67	-
Men's and boys' clothing and furnishings	561	6.62	6.76	7.11	7.00	-	201.91	195.36	201.21	213.50	-
Women's ready-to-wear stores	562	5.26	5.35	5.53	5.54	-	135.71	127.87	137.14	144.04	-
Family clothing stores	565	5.41	5.63	5.69	5.67	-	151.48	141.88	153.63	158.76	-
Shoe stores	566	5.84	5.82	5.99	6.15	-	165.27	155.39	170.72	183.89	-
Furniture and home furnishings stores	57	7.71	7.65	7.96	8.08	-	258.29	250.16	260.29	272.30	-
Furniture and home furnishings stores	571	7.76	7.81	8.11	8.18	-	259.96	256.17	271.69	278.12	-
Household appliance stores	572	7.65	7.57	8.02	8.18	-	261.63	254.35	268.67	284.66	-
Radio, television, and music stores	573	7.64	7.41	7.70	7.87	-	255.18	238.60	239.47	258.14	-
Eating and drinking places ⁴	58	4.51	4.52	4.65	4.68	-	115.01	112.55	118.11	119.34	-

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				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p
Retail trade—Continued											
Miscellaneous retail	59	31.0	29.5	29.7	31.0	-	-	-	-	-	-
Drug stores and proprietary stores	591	28.5	27.7	27.2	27.7	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	29.8	27.4	28.1	30.2	-	-	-	-	-	-
Nonstore retailers	596	35.1	32.0	33.0	33.8	-	-	-	-	-	-
Fuel and ice dealers	598	39.3	41.5	39.2	40.1	-	-	-	-	-	-
Retail stores, nec	599	32.4	30.7	31.5	33.3	-	-	-	-	-	-
Finance, insurance, and real estate⁵		36.0	36.2	35.7	35.8	36.3	-	-	-	-	-
Banking	60	35.8	36.0	35.5	35.7	-	-	-	-	-	-
Commercial and stock savings banks	602	35.8	35.9	35.4	35.7	-	-	-	-	-	-
Credit agencies other than banks	61	36.1	36.4	36.1	36.3	-	-	-	-	-	-
Savings and loan associations	612	35.5	35.9	35.5	35.7	-	-	-	-	-	-
Personal credit institutions	614	36.4	36.5	36.0	36.2	-	-	-	-	-	-
Insurance carriers	63	37.2	37.5	37.1	37.1	-	-	-	-	-	-
Life insurance	631	36.7	37.1	36.8	36.8	-	-	-	-	-	-
Medical service and health insurance	632	38.1	38.8	38.0	38.2	-	-	-	-	-	-
Fire, marine, and casualty insurance	633	37.1	37.3	36.7	36.8	-	-	-	-	-	-
Services		32.4	32.4	32.5	32.5	32.5	-	-	-	-	-
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	29.8	30.2	30.6	30.0	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services	721	34.2	33.4	34.3	34.5	-	-	-	-	-	-
Beauty shops ⁴	723	29.7	28.7	29.8	30.2	-	-	-	-	-	-
Business services	73	33.6	33.5	33.8	34.0	-	-	-	-	-	-
Advertising	731	36.7	36.8	36.6	36.6	-	-	-	-	-	-
Services to buildings	734	28.7	28.5	29.7	29.9	-	-	-	-	-	-
Computer and data processing services	737	37.3	37.7	38.0	38.1	-	-	-	-	-	-
Auto repair, services, and garages	75	36.5	36.6	36.6	36.8	-	-	-	-	-	-
Automotive repair shops	753	38.4	38.1	38.0	38.2	-	-	-	-	-	-
Miscellaneous repair services	76	38.4	37.7	38.0	38.2	-	-	-	-	-	-
Motion pictures	78	29.4	29.3	28.8	29.1	-	-	-	-	-	-
Motion picture production and services	781	38.2	37.6	35.8	36.6	-	-	-	-	-	-
Amusement and recreation services	79	28.0	27.4	27.8	27.7	-	-	-	-	-	-
Health services	80	32.3	32.4	32.3	32.3	-	-	-	-	-	-
Offices of physicians	801	30.8	31.2	31.3	31.3	-	-	-	-	-	-
Offices of dentists	802	28.7	28.5	28.7	28.6	-	-	-	-	-	-
Nursing and personal care facilities	805	31.5	31.6	31.5	31.7	-	-	-	-	-	-
Hospitals	806	34.0	34.1	33.8	33.8	-	-	-	-	-	-
Legal services	81	34.2	34.9	34.4	34.6	-	-	-	-	-	-
Miscellaneous services	89	38.3	38.3	38.0	38.1	-	-	-	-	-	-
Engineering and architectural services	891	39.6	39.1	39.2	39.2	-	-	-	-	-	-
Accounting, auditing, and bookkeeping	893	36.7	37.8	36.4	36.8	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p
Retail trade—Continued											
Miscellaneous retail	59	\$6.33	\$6.52	\$6.65	\$6.61	-	\$196.23	\$192.34	\$197.51	\$204.91	-
Drug stores and proprietary stores	591	5.93	6.04	6.32	6.29	-	189.01	187.31	171.90	174.23	-
Miscellaneous shopping goods stores	594	5.84	6.09	6.16	6.13	-	174.03	166.87	173.10	185.13	-
Nonstore retailers	596	7.23	7.26	7.45	7.51	-	253.77	232.32	245.85	253.84	-
Fuel and ice dealers	598	9.24	9.57	9.39	9.56	-	383.13	397.16	388.09	383.36	-
Retail stores, nec	599	6.47	6.62	6.82	6.87	-	209.63	203.23	214.83	222.11	-
Finance, insurance, and real estate⁵		8.81	8.96	9.27	9.32	\$9.50	317.18	324.35	330.94	333.66	\$344.85
Banking	60	7.82	7.76	7.92	7.92	-	272.80	279.36	281.16	282.74	-
Commercial and stock savings banks	602	7.37	7.51	7.63	7.64	-	263.85	289.81	270.10	272.75	-
Credit agencies other than banks	61	8.00	8.09	8.45	8.50	-	288.80	294.48	305.05	308.55	-
Savings and loan associations	612	7.59	7.67	7.97	8.02	-	269.45	275.35	282.94	288.31	-
Personal credit institutions	614	7.55	7.62	7.95	8.02	-	274.82	278.13	286.20	290.32	-
Insurance carriers	63	9.74	9.85	10.38	10.44	-	382.33	369.38	385.10	387.32	-
Life insurance	631	9.16	9.26	9.80	9.87	-	336.17	343.55	360.64	363.22	-
Medical service and health insurance	632	9.51	9.54	10.09	10.04	-	362.33	370.15	383.42	383.53	-
Fire, marine, and casualty insurance	633	10.26	10.34	10.95	11.05	-	380.65	385.68	401.87	406.64	-
Services		8.73	8.81	9.10	9.15	9.26	282.85	285.44	295.75	297.38	300.95
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	6.46	6.38	6.50	6.62	-	192.51	192.68	196.90	198.60	-
Personal services:											
Laundry, cleaning, and garment services	721	6.27	6.29	6.42	6.46	-	214.43	210.09	220.21	222.87	-
Beauty shops ⁴	723	6.71	6.49	6.78	6.83	-	199.29	186.26	202.04	206.27	-
Business services	73	8.93	9.08	9.25	9.28	-	300.05	304.18	312.65	315.52	-
Advertising	731	12.31	12.24	12.57	12.79	-	451.78	450.43	460.06	468.11	-
Services to buildings	734	6.75	6.68	6.85	6.92	-	193.73	190.38	203.45	206.91	-
Computer and data processing services	737	12.49	12.61	13.14	13.09	-	465.88	475.40	499.32	498.73	-
Auto repair, services, and garages	75	7.99	8.05	8.32	8.37	-	291.64	294.63	304.51	308.02	-
Automotive repair shops	753	8.57	8.67	8.99	9.08	-	329.09	330.33	341.82	346.86	-
Miscellaneous repair services	76	9.50	9.39	9.62	9.69	-	364.80	353.06	365.56	370.16	-
Motion pictures	78	12.47	12.27	12.50	12.67	-	366.62	359.51	360.00	368.70	-
Motion picture production and services	781	16.38	16.28	16.41	16.67	-	625.72	612.13	587.48	610.12	-
Amusement and recreation services	79	7.58	7.78	7.98	8.06	-	212.24	213.17	221.84	223.26	-
Health services	80	8.92	9.00	9.46	9.49	-	286.12	291.60	305.56	306.53	-
Offices of physicians	801	8.61	8.70	8.96	9.02	-	265.19	271.44	280.45	282.33	-
Offices of dentists	802	8.69	8.70	9.03	9.12	-	249.40	247.95	259.16	260.83	-
Nursing and personal care facilities	805	6.12	6.18	6.48	6.52	-	192.78	195.29	204.12	206.68	-
Hospitals	806	10.12	10.22	10.80	10.82	-	344.08	348.50	365.04	365.72	-
Legal services	81	12.27	12.42	12.94	13.01	-	419.63	433.46	445.14	450.15	-
Miscellaneous services	89	12.32	12.32	12.77	12.83	-	471.86	471.86	485.26	488.82	-
Engineering and architectural services	891	13.15	13.24	13.53	13.60	-	520.74	517.68	530.38	533.12	-
Accounting, auditing, and bookkeeping	893	10.54	10.49	10.94	11.02	-	386.82	396.52	398.22	405.54	-

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)			
	Nov. 1987	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Nov. 1987	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Average hourly earnings, excluding lump-sum payments	\$13.95	\$14.00	\$14.55	\$14.60	\$13.26	\$13.49	\$13.80	\$13.88
Average hourly earnings, including lump-sum payments	\$14.26	\$14.41	^P 15.07	15.05	\$13.50	\$13.75	^P 14.17	14.22

^P = preliminary.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p
Manufacturing	\$9.59	\$9.62	\$9.82	\$9.88	\$9.92
Durable goods	10.09	10.13	10.32	10.36	10.40
Lumber and wood products	8.06	8.18	8.31	8.39	(9)
Furniture and fixtures	7.47	7.54	7.72	7.74	(9)
Stone, clay, and glass products	9.73	9.83	10.00	10.00	(9)
Primary metal industries	11.40	11.36	11.48	11.51	(9)
Fabricated metal products	9.68	9.65	9.83	9.88	(9)
Machinery, except electrical	10.30	10.31	10.60	10.59	(9)
Electrical and electronic equipment	9.60	9.64	9.81	9.84	(9)
Transportation equipment	12.57	12.57	12.82	12.88	(9)
Instruments and related products	9.43	9.56	9.66	9.71	(9)
Miscellaneous manufacturing	7.64	7.74	7.82	7.90	(9)
Nondurable goods	8.89	8.92	9.10	9.18	\$9.23
Food and kindred products	8.61	8.62	8.68	8.80	(9)
Tobacco manufactures	13.11	13.22	13.98	14.10	(9)
Textile mill products	6.93	6.99	7.11	7.16	(9)
Apparel and other textile products	5.84	5.87	6.07	6.12	(9)
Paper and allied products	10.86	10.89	11.07	11.11	(9)
Printing and publishing	9.98	9.99	10.24	10.29	(9)
Chemicals and allied products	12.02	11.98	12.27	12.34	(9)
Petroleum and coal products	13.94	14.07	14.38	14.43	(9)
Rubber and misc. plastics products	8.58	8.57	8.77	8.81	(9)
Leather and leather products	5.98	6.01	6.24	6.27	(9)

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

² Not available.

^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 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 workers on private nonagricultural payrolls by major industry, in current and constant (1977) dollars.

Industry	Average hourly earnings					Average weekly earnings				
	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p	Dec. 1987	Jan. 1988	Nov. 1988	Dec. 1988 ^p	Jan. 1989 ^p
Total private:										
Current dollars	\$9.13	\$9.18	\$9.46	\$9.46	\$9.55	\$317.72	\$315.79	\$328.28	\$330.15	\$329.48
Constant (1977) dollars	4.87	4.88	4.84	4.83	(¹)	169.54	167.97	187.99	168.70	(¹)
Mining:										
Current dollars	12.60	12.77	12.83	12.96	\$13.07	543.06	537.62	537.58	554.69	\$559.40
Constant (1977) dollars	6.72	6.79	6.57	6.62	(¹)	289.79	285.97	275.12	283.44	(¹)
Construction:										
Current dollars	12.81	12.99	13.04	13.16	\$13.23	481.66	466.34	491.61	489.55	\$484.22
Constant (1977) dollars	6.84	6.91	6.87	6.72	(¹)	257.02	248.05	251.59	250.15	(¹)
Manufacturing:										
Current dollars	10.07	10.07	10.30	10.37	\$10.38	420.93	412.87	427.45	432.43	\$424.54
Constant (1977) dollars	5.37	5.36	5.27	5.30	(¹)	224.62	219.61	218.76	220.97	(¹)
Transportation and public utilities:										
Current dollars	12.24	12.16	12.48	12.42	\$12.50	479.81	474.24	489.68	490.59	\$488.75
Constant (1977) dollars	8.53	8.47	8.38	8.35	(¹)	258.04	252.26	250.60	250.68	(¹)
Wholesale trade:										
Current dollars	9.73	9.78	10.05	10.12	\$10.23	371.69	370.66	381.90	386.58	\$389.78
Constant (1977) dollars	5.19	5.20	5.14	5.17	(¹)	198.34	197.16	195.45	197.54	(¹)
Retail trade:										
Current dollars	8.19	6.24	6.43	6.41	\$6.47	181.37	176.59	185.18	189.10	\$185.04
Constant (1977) dollars	3.30	3.32	3.29	3.28	(¹)	96.78	93.93	94.77	96.63	(¹)
Finance, insurance, and real estate:										
Current dollars	8.81	8.96	9.27	9.32	\$9.50	317.16	324.35	330.94	333.66	\$344.85
Constant (1977) dollars	4.70	4.77	4.74	4.76	(¹)	169.24	172.53	169.37	170.50	(¹)
Services:										
Current dollars	8.73	8.81	9.10	9.15	\$9.26	282.85	285.44	295.75	297.38	\$300.95
Constant (1977) dollars	4.66	4.69	4.66	4.68	(¹)	150.93	151.83	151.36	151.96	(¹)

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	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^p	Jan. ^p
Total private	34.7	34.8	34.6	34.9	34.7	34.7	34.9	34.6	34.7	34.9	34.8	34.7	34.9
Mining	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Construction	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Manufacturing	41.1	41.0	40.9	41.2	41.0	41.1	41.1	41.0	41.2	41.2	41.2	40.9	41.0
<i>Overtime hours</i>	3.9	3.7	3.7	3.9	3.9	3.9	3.9	3.9	3.9	4.0	3.9	3.9	3.9
Durable goods	41.6	41.5	41.5	42.0	41.8	41.8	41.8	41.6	41.9	41.9	41.9	41.6	41.7
<i>Overtime hours</i>	4.0	3.8	3.8	4.2	4.2	4.1	4.0	4.1	4.0	4.2	4.2	4.1	4.1
Lumber and wood products	40.2	40.3	40.1	40.6	40.1	40.2	40.5	40.0	39.9	40.7	40.3	40.3	40.4
Furniture and fixtures	39.6	39.5	39.3	39.5	39.5	39.4	39.7	39.0	39.6	39.4	39.4	39.2	40.1
Stone, clay, and glass products	42.0	42.3	42.3	42.5	42.3	42.4	42.1	42.1	42.3	42.5	42.6	42.4	42.9
Primary metal industries	43.4	43.1	43.3	43.5	43.6	43.6	43.4	43.5	44.0	43.8	43.7	43.3	43.3
Blast furnaces and basic steel products ..	44.0	43.8	43.7	43.8	43.9	44.3	44.0	44.0	44.6	44.3	44.0	43.6	43.8
Fabricated metal products	41.8	41.6	41.6	42.0	41.9	42.0	41.7	41.8	42.0	41.9	42.2	41.7	41.9
Machinery, except electrical	42.7	42.6	42.5	42.8	42.6	42.5	43.0	42.4	42.7	42.6	42.5	42.3	42.4
Electrical and electronic equipment	41.1	40.9	40.9	41.2	41.0	41.1	41.0	40.8	41.0	41.0	41.0	40.8	40.6
Transportation equipment	42.0	42.0	42.1	43.0	43.0	43.0	42.6	42.7	43.3	43.3	43.3	42.7	42.7
Motor vehicles and equipment	42.1	42.3	42.3	44.1	44.0	44.2	42.5	43.6	44.5	44.2	44.6	43.4	43.4
Instruments and related products	41.8	41.3	41.4	41.8	41.4	41.3	41.8	41.5	41.6	41.9	41.6	41.0	41.3
Miscellaneous manufacturing	39.1	39.3	39.2	39.4	39.2	39.3	39.2	39.2	39.2	39.1	39.2	38.9	39.6
Nondurable goods	40.3	40.2	40.1	40.3	40.0	40.1	40.2	40.1	40.2	40.2	40.2	40.0	40.1
<i>Overtime hours</i>	3.8	3.6	3.6	3.6	3.6	3.6	3.7	3.6	3.7	3.8	3.6	3.6	3.6
Food and kindred products	40.6	40.3	40.1	40.1	40.1	40.3	40.5	40.4	40.3	40.6	40.6	40.4	40.5
Tobacco manufactures	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Textile mill products	41.5	41.6	41.2	41.6	40.8	40.7	41.1	41.1	41.1	41.0	41.0	40.7	40.7
Apparel and other textile products	36.8	37.0	37.0	37.4	36.8	36.9	36.9	36.8	37.1	36.8	37.0	36.6	37.0
Paper and allied products	43.4	43.3	43.2	43.3	43.3	43.2	43.2	43.2	43.3	43.2	43.1	42.9	42.4
Printing and publishing	38.1	38.1	38.1	38.2	37.7	38.0	38.0	38.0	38.1	38.0	37.8	37.7	38.0
Chemicals and allied products	42.5	42.4	42.5	42.1	42.0	42.4	42.3	42.1	42.1	42.5	42.4	42.4	42.5
Petroleum and coal products	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Rubber and misc. plastics products	41.7	41.6	41.7	42.0	41.7	41.6	41.6	41.5	41.6	41.5	41.7	41.3	41.6
Leather and leather products	36.0	37.8	37.9	37.3	37.3	36.9	37.0	37.6	37.5	37.9	37.3	37.6	38.2
Transportation and public utilities	39.5	39.1	38.8	39.5	39.4	39.3	39.5	39.3	39.4	39.4	39.2	39.4	39.5
Wholesale trade	38.1	38.2	38.1	38.3	38.0	37.9	38.2	37.8	38.1	38.1	38.0	38.0	38.3
Retail trade	29.0	29.1	29.0	29.2	29.0	29.1	29.3	29.0	28.9	29.2	29.0	29.1	29.3
Finance, insurance, and real estate	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Services	32.6	32.7	32.4	32.7	32.5	32.5	32.7	32.4	32.6	32.8	32.6	32.6	32.7

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

(1977 = 100)

Industry	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^P	Jan. ^P
Total private	123.0	123.9	123.6	125.1	124.4	125.4	126.4	125.5	126.0	127.1	127.1	127.2	128.5
Goods-producing	100.5	101.1	101.6	102.7	102.1	103.2	103.3	102.8	103.1	104.0	104.5	103.6	104.5
Mining	81.7	82.5	83.2	85.9	84.4	85.0	85.6	83.5	82.8	83.5	80.9	81.5	82.2
Construction	132.1	136.0	139.1	141.1	139.3	144.0	142.4	142.5	143.4	145.3	147.5	144.8	147.0
Manufacturing	95.2	95.2	95.2	96.1	95.7	96.1	96.5	96.0	96.3	96.9	97.2	96.6	97.3
Durable goods	92.7	92.7	92.7	94.0	93.9	94.3	94.8	94.2	94.6	95.2	95.6	95.0	95.6
Lumber and wood products	103.0	103.6	103.1	104.7	103.2	103.8	103.9	102.3	101.7	104.8	104.7	105.4	106.3
Furniture and fixtures	113.7	113.2	112.3	113.2	113.7	113.4	115.1	112.0	114.2	114.2	114.5	113.6	116.2
Stone, clay, and glass products	86.5	87.3	87.5	88.3	87.5	88.1	88.0	87.5	87.5	88.3	88.9	88.9	89.9
Primary metal industries	66.5	66.4	66.9	67.6	68.1	68.6	69.0	68.7	69.7	70.1	70.0	69.3	69.2
Blast furnaces and basic steel products	53.9	53.9	54.1	54.8	54.6	55.4	55.3	54.8	55.0	55.1	54.8	53.8	54.3
Fabricated metal products	90.9	90.8	90.8	91.8	92.1	92.8	92.7	92.6	93.1	93.6	94.6	93.6	94.7
Machinery, except electrical	90.0	90.2	90.4	91.5	91.6	91.6	93.7	92.6	93.2	93.7	94.3	94.3	94.5
Electrical and electronic equipment	102.2	101.8	101.9	102.8	102.3	103.0	103.1	102.8	103.1	103.4	103.7	102.9	102.4
Transportation equipment	97.5	97.3	96.8	100.0	100.2	100.0	99.7	99.9	100.2	100.7	100.8	99.3	99.9
Motor vehicles and equipment	84.7	85.7	84.8	89.8	89.9	90.3	88.2	90.9	91.4	91.9	92.6	89.8	90.6
Instruments and related products	106.0	105.0	105.2	106.5	106.1	106.6	108.2	107.7	107.9	109.5	109.0	108.0	109.1
Miscellaneous manufacturing	83.4	84.8	84.5	85.0	83.9	84.5	85.1	84.2	84.2	83.1	83.6	83.6	85.7
Nondurable goods	99.0	99.0	98.8	99.1	98.4	98.9	99.1	98.7	98.7	99.4	99.7	99.1	100.0
Food and kindred products	102.2	101.7	100.9	101.0	100.5	101.4	100.6	100.2	100.1	102.7	103.3	102.0	103.4
Tobacco manufactures	77.2	75.8	74.8	73.8	71.0	71.4	73.7	72.0	69.1	69.7	72.7	69.4	68.0
Textile mill products	82.5	82.7	81.7	82.2	80.6	80.2	81.2	79.9	80.4	80.2	80.2	79.8	80.0
Apparel and other textile products	85.1	85.5	85.7	86.2	84.7	84.8	84.7	83.9	84.5	83.9	84.9	84.2	85.4
Paper and allied products	101.6	101.5	101.3	101.4	101.5	101.7	101.9	101.9	101.4	101.3	101.3	100.8	100.0
Printing and publishing	134.9	135.5	136.0	136.5	134.9	136.4	136.6	137.0	137.5	137.6	137.2	137.3	138.9
Chemicals and allied products	97.4	97.1	97.9	97.1	97.4	98.8	98.7	98.7	98.4	99.7	99.4	99.4	100.5
Petroleum and coal products	86.3	84.5	83.5	84.9	85.3	86.8	86.6	86.6	86.1	87.3	86.3	86.5	85.5
Rubber and misc. plastics products	120.9	121.0	121.8	122.9	123.1	123.4	124.8	124.2	123.9	124.7	126.0	125.2	126.3
Leather and leather products	57.5	57.2	56.9	55.5	55.5	54.9	55.5	56.0	55.8	56.4	55.1	56.0	57.3
Service-producing	135.5	136.4	135.8	137.4	136.8	137.8	139.1	138.1	138.7	139.9	139.6	140.2	141.7
Transportation and public utilities	112.6	111.8	111.2	113.5	113.5	113.8	114.7	114.5	114.6	115.0	115.2	116.0	117.2
Wholesale trade	122.2	123.1	123.6	124.8	124.4	124.9	126.3	125.4	126.9	127.4	127.7	128.1	129.9
Retail trade	124.0	125.2	124.8	126.0	125.1	126.2	127.3	126.2	125.7	127.2	126.7	127.3	129.1
Finance, insurance, and real estate	141.3	141.6	139.6	141.1	140.1	140.1	142.1	140.0	140.6	141.2	140.4	140.0	143.2
Services	156.5	158.0	157.2	159.0	158.3	160.0	161.5	160.7	162.0	163.5	163.2	164.0	164.9

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. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, seasonally adjusted

Industry	1988												1989
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^p	Jan. ^p
Average hourly earnings													
Total private (in current dollars)	\$9.14	\$9.13	\$9.16	\$9.23	\$9.27	\$9.27	\$9.32	\$9.32	\$9.37	\$9.43	\$9.42	\$9.44	\$9.50
Mining	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Construction	\$12.91	\$12.82	\$12.90	\$12.93	\$12.91	\$12.93	\$13.03	\$12.99	\$13.04	\$13.03	\$13.01	\$13.09	\$13.15
Manufacturing	10.02	10.03	10.05	10.11	10.15	10.18	10.17	10.20	10.26	10.28	10.29	10.31	10.33
Excluding overtime²	9.57	9.59	9.61	9.65	9.69	9.72	9.71	9.74	9.78	9.81	9.83	9.85	9.87
Transportation and public utilities	12.14	12.19	12.21	12.29	12.35	12.33	12.37	12.39	12.37	12.43	12.37	12.35	12.49
Wholesale trade	9.75	9.72	9.76	9.88	9.88	9.86	9.97	9.93	10.01	10.13	10.04	10.08	10.20
Retail trade	6.20	6.20	6.22	6.25	6.28	6.29	6.33	6.32	6.34	6.37	6.42	6.41	6.43
Finance, insurance, and real estate	8.92	8.91	8.90	8.99	9.08	9.00	9.10	9.09	9.18	9.36	9.26	9.37	9.45
Services	8.72	8.72	8.75	8.81	8.88	8.86	8.92	8.93	8.99	9.06	9.04	9.09	9.16
Total private (in constant dollars) ⁴	4.85	4.84	4.84	4.85	4.85	4.84	4.84	4.82	4.83	4.84	4.83	4.82	(^q)
Average weekly earnings													
Total private:													
In current dollars	317.16	317.72	316.94	322.13	321.67	321.67	325.27	322.47	325.14	329.11	327.82	327.57	331.55
In constant (1977) dollars ⁴	168.43	168.46	167.43	169.36	168.41	167.89	169.06	166.82	167.68	168.86	167.94	167.21	(^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 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.

³ Derived by assuming that overtime hours are paid at the rate of time and one-half. Current seasonal adjustment factors are shown in the

tabulation below.

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.

Seasonal adjustment factors for average hourly earnings in manufacturing, excluding overtime

Year	January	February	March	April	May	June	July	August	September	October	November	December
1988	100.5	100.4	100.3	100.3	100.1	99.8	100.1	99.2	99.7	99.5	99.9	100.3
1989	100.5	100.4	100.3									

**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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Alabama	41.7	41.5	41.5	\$8.92	\$9.11	\$9.12	\$371.96	\$378.06	\$378.48
Birmingham	42.4	41.4	41.6	9.14	9.22	9.17	387.54	381.71	381.47
Mobile	40.3	41.0	41.5	10.48	10.60	10.66	422.34	434.60	442.39
Alaska	40.3	46.0	42.9	13.45	12.55	13.42	542.03	577.30	575.72
Arizona	41.1	41.3	41.7	9.93	9.95	9.92	408.12	410.93	413.66
Arkansas	42.0	40.7	41.2	8.00	8.09	8.29	336.00	329.26	341.55
Fayetteville-Springdale	43.6	41.5	38.1	7.36	7.31	7.65	320.90	303.37	291.47
Fort Smith	41.2	40.8	41.4	8.62	8.65	8.76	355.14	351.19	362.88
Little Rock-North Little Rock	41.9	40.8	40.8	8.58	8.54	8.66	359.50	348.43	353.33
Pine Bluff	43.9	42.7	45.7	10.39	10.76	11.16	456.12	459.45	510.01
California	41.1	(¹)	(¹)	10.98	(¹)	(¹)	451.28	(¹)	(¹)
Colorado	40.7	40.7	40.2	10.16	10.34	10.51	413.51	420.84	422.50
Denver	40.6	40.4	40.1	10.48	10.91	11.05	425.49	440.76	443.11
Connecticut	42.7	42.2	42.3	10.68	10.89	11.01	456.04	459.56	465.72
Bridgeport-Milford	42.4	41.8	41.7	11.15	11.29	11.35	472.76	471.92	473.30
Hartford	43.3	42.5	43.0	10.94	11.59	11.65	473.70	492.58	500.95
New Haven-Meriden	40.9	42.2	42.1	10.27	10.30	10.42	420.04	434.66	438.68
Stamford	41.4	39.3	39.6	11.65	12.19	12.28	482.31	479.07	486.29
Waterbury	44.0	44.5	44.8	9.09	10.09	10.15	399.96	449.01	454.72
Delaware	40.1	40.5	39.8	10.60	10.34	10.45	425.06	418.77	415.91
Wilmington	40.9	41.7	41.5	12.94	12.80	12.73	529.25	533.76	528.30
District of Columbia:									
Washington MSA	40.0	39.7	40.3	10.95	11.48	11.64	438.00	455.76	469.09
Florida	42.0	41.1	41.7	8.28	8.54	8.67	347.76	350.99	361.54
Fort Lauderdale-Hollywood-Pompano Beach	44.3	40.6	41.8	8.25	8.53	8.63	365.48	346.32	360.73
Jacksonville	42.4	41.1	41.4	9.06	9.13	9.40	384.14	375.24	389.16
Miami-Hialeah	40.5	40.2	40.5	7.02	7.23	7.32	284.31	290.65	296.46
Orlando	40.9	40.1	40.2	8.79	9.10	9.41	359.51	364.91	378.28
Pensacola	44.4	43.3	43.3	11.09	10.89	10.92	492.40	471.54	472.84
Tampa-St. Petersburg-Clearwater	41.6	41.1	42.2	7.90	8.30	8.47	328.64	341.13	357.43
West Palm Beach-Boca Raton-DeLray Beach	44.3	41.3	43.1	9.25	9.49	9.51	409.78	391.94	409.88
Georgia	42.4	41.8	42.2	8.64	8.69	8.77	366.34	361.50	370.09
Atlanta	43.1	40.7	41.8	10.23	10.27	10.34	440.91	417.99	432.21
Savannah	47.2	47.7	48.6	11.05	11.40	11.43	521.56	543.78	555.50
Hawaii	39.8	40.6	40.0	9.33	9.87	9.94	371.33	400.72	397.60
Honolulu	39.3	41.2	40.5	9.50	10.07	10.12	373.35	414.86	409.86
Idaho	39.1	37.4	39.3	9.62	9.87	9.98	376.14	369.14	392.21
Illinois	42.4	41.5	41.8	10.95	11.07	11.11	464.28	459.41	464.40
Aurora-Elgin	42.4	42.9	43.2	10.59	10.81	10.85	449.02	463.75	468.72
Bloomington-Normal	40.9	40.3	41.5	10.74	11.34	11.23	439.27	457.00	466.05
Champaign-Urbana-Rantoul	42.1	41.3	42.6	9.28	9.34	9.28	390.69	385.74	395.33
Chicago	43.6	42.3	42.4	10.68	10.81	10.85	465.65	457.26	460.04
Davenport-Rock Island-Moline	40.0	40.3	40.6	12.91	12.93	13.11	516.40	521.08	532.27
Decatur	42.3	43.4	41.8	14.06	14.60	14.31	594.74	633.64	598.16
Joliet	41.4	41.2	41.9	11.78	12.03	12.07	487.69	495.64	505.73
Lake County	42.2	42.3	40.5	11.43	11.76	11.56	482.35	497.45	468.18
Peoria	43.4	46.0	44.8	13.31	13.58	13.55	577.65	624.88	607.10
Rockford	42.7	43.4	43.1	11.53	11.44	11.53	492.33	496.50	496.94
Springfield	42.2	43.3	42.8	11.79	11.97	11.86	497.54	518.30	507.61
Indiana	42.9	41.5	42.0	11.32	11.34	11.45	485.63	470.61	460.90

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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a	Dec. 1987	Nov. 1988	Dec. 1988 ^a
Iowa	42.8	42.0	42.1	\$10.75	\$10.80	\$11.02	\$457.95	\$453.80	\$463.94
Cedar Rapids	41.8	40.9	41.3	12.01	12.57	12.20	499.82	514.11	503.86
Des Moines	43.8	42.9	43.5	11.91	11.69	11.87	521.88	501.50	518.35
Dubuque	43.7	39.6	46.3	11.89	11.68	12.11	519.59	462.53	580.89
Sioux City	38.1	31.9	31.0	6.45	6.05	6.00	321.95	256.80	248.00
Kansas	40.9	41.0	41.1	10.07	10.42	10.40	411.86	427.22	427.44
Topeka	43.4	41.9	41.8	11.71	11.78	11.55	508.21	492.74	482.79
Wichita	41.3	41.8	41.8	10.52	11.11	11.21	434.48	464.40	468.58
Kentucky	41.9	40.8	40.9	10.12	10.28	10.22	424.03	419.42	418.00
Lexington-Fayette	40.9	40.1	39.7	10.40	10.51	10.41	425.36	421.45	413.28
Louisville	43.9	42.5	42.2	11.77	11.67	11.64	516.70	504.46	499.85
Louisiana	42.7	43.2	42.2	10.78	11.02	10.94	480.31	476.06	461.67
Baton Rouge	43.4	43.3	42.9	12.60	12.45	12.49	546.64	539.09	535.82
New Orleans	41.0	41.1	39.9	10.54	10.85	10.57	432.14	445.94	421.74
Shreveport	39.6	42.7	40.7	11.47	12.06	11.39	454.21	514.96	463.57
Maine	41.4	40.1	39.8	8.94	9.30	9.40	370.12	372.93	374.12
Lewiston-Auburn	41.4	38.6	38.0	7.82	8.25	8.53	315.47	316.45	324.14
Portland	43.1	41.3	39.2	9.04	9.75	10.26	389.62	402.88	402.19
Maryland	41.4	41.9	41.8	10.26	10.81	10.64	424.76	444.56	444.75
Baltimore MSA	42.7	42.5	42.4	11.08	11.45	11.46	473.12	486.83	485.90
Massachusetts	42.0	41.4	42.1	10.01	10.44	10.53	420.42	432.22	443.31
Boston	41.7	41.6	41.8	10.85	11.11	11.18	452.45	462.18	467.32
Springfield	43.1	42.8	42.8	9.46	9.86	9.99	407.73	422.01	427.57
Worcester	40.9	41.3	41.3	10.24	10.63	10.86	418.82	439.02	440.26
Michigan	43.1	44.3	44.7	13.22	13.39	13.53	569.78	593.18	604.79
Ann Arbor	45.8	47.3	46.6	14.20	14.66	14.65	650.38	693.42	682.69
Battle Creek	45.3	43.9	43.7	14.21	14.56	15.19	643.71	639.18	663.80
Detroit	44.8	45.0	45.8	14.31	14.41	14.59	641.09	648.45	668.22
Flint	40.8	45.7	46.7	16.25	16.87	16.96	663.00	770.96	792.03
Grand Rapids	41.9	41.9	42.2	11.16	11.45	11.46	467.60	479.75	483.61
Kalamazoo	43.4	43.0	43.8	12.25	12.63	12.63	531.65	543.09	553.19
Lansing-East Lansing	34.6	44.3	44.6	13.92	14.53	14.67	484.42	643.88	654.28
Muskegon	41.8	41.3	41.8	12.01	12.05	12.01	502.02	497.86	502.02
Saginaw-Bay City-Midland	43.6	44.8	45.8	15.03	15.33	15.45	655.31	666.78	707.61
Minnesota	41.6	40.8	41.4	10.42	10.65	10.86	433.47	434.52	441.32
Duluth	39.4	37.6	38.1	10.89	11.36	11.12	429.07	427.14	423.67
Minneapolis-St. Paul	41.5	40.5	41.6	11.09	11.31	11.30	460.24	458.06	470.08
St. Cloud	40.8	36.8	39.3	9.81	9.88	9.75	400.25	363.58	383.18
Mississippi	41.3	40.9	41.3	7.71	7.93	7.94	318.42	324.34	327.92
Jackson	41.6	40.9	41.1	8.70	8.74	8.96	361.92	357.47	368.28
Missouri	41.8	41.3	42.2	10.11	10.25	10.34	422.60	423.33	436.35
Kansas City	41.8	42.0	42.3	11.39	11.56	11.69	476.10	485.52	494.49
St. Louis	42.2	41.6	42.7	11.77	11.89	12.05	496.89	494.62	514.54
Springfield	43.0	40.5	41.7	8.49	8.48	8.52	365.07	343.44	355.28
Montana	39.0	39.7	40.6	10.40	10.68	10.84	405.60	424.00	440.10
Nebraska	41.7	40.8	40.8	9.46	9.64	9.64	394.48	391.38	393.31
Lincoln	41.6	39.9	40.1	10.25	9.99	9.99	426.40	398.60	400.60
Omaha	42.2	40.9	41.6	10.20	10.63	10.48	430.44	434.77	435.97
Nevada	40.8	40.3	41.8	9.73	10.14	10.19	396.98	408.64	425.94
Las Vegas	40.1	41.1	41.9	12.43	12.62	12.81	498.44	518.68	536.74
New Hampshire	41.9	39.9	40.5	9.59	9.91	9.95	401.82	395.41	402.98
Nashua	42.5	40.0	41.9	11.55	12.47	12.63	490.88	498.80	529.20
Portsmouth-Dover-Rochester	40.6	41.5	41.5	9.18	9.32	9.54	372.71	386.78	395.91

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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
New Jersey	41.7	41.2	41.3	\$10.77	\$10.91	\$10.99	\$449.11	\$449.49	\$453.89
New Mexico	41.7	41.1	42.3	8.82	9.06	9.02	367.79	372.37	381.55
Albuquerque	42.3	39.8	40.6	9.27	9.55	9.52	392.12	380.09	386.51
New York	40.6	40.6	40.5	10.24	10.65	10.71	415.74	432.39	433.76
Albany-Schenectady-Troy	39.9	42.0	42.5	10.71	11.51	11.42	427.33	483.42	485.35
Binghamton	41.9	39.7	39.9	9.28	9.84	9.90	388.83	390.65	395.01
Buffalo	43.8	44.1	43.6	12.13	12.43	12.66	531.29	548.16	551.98
Elmira	42.9	42.7	43.2	9.66	9.78	9.87	414.41	417.61	426.38
Nassau-Suffolk	40.2	40.2	39.6	10.73	11.55	11.50	431.35	464.31	455.40
New York PMSA	37.5	37.5	37.6	9.68	10.15	10.17	383.00	380.63	382.39
New York City	37.0	37.1	37.1	9.51	9.92	9.93	351.87	368.03	368.40
Niagara Falls	42.9	43.4	43.6	13.37	13.88	14.02	573.57	602.39	611.27
Orange County	39.4	38.9	38.8	8.24	8.67	8.67	324.66	337.26	334.66
Poughkeepsie	41.5	41.6	41.4	9.74	10.19	10.17	404.21	423.90	421.04
Rochester	43.1	44.3	43.9	12.42	12.51	12.63	535.30	554.19	554.46
Rockland County	36.8	35.7	36.3	10.65	11.11	11.04	391.92	396.63	400.75
Syracuse	42.9	42.7	42.2	11.27	12.44	12.44	483.48	531.19	524.97
Utica-Rome	42.4	42.9	42.1	9.69	9.66	9.72	410.86	422.99	409.21
Westchester County	41.3	41.8	42.1	10.92	11.84	11.69	451.00	488.55	492.15
North Carolina	41.9	40.8	41.1	7.97	8.23	8.26	333.94	335.78	339.49
Asheville	42.6	41.9	41.6	8.09	8.32	8.25	344.83	348.81	343.20
Charlotte-Gastonia-Rock Hill	42.5	41.0	41.8	8.27	8.59	8.62	351.48	352.19	360.32
Greensboro-Winston-Salem-High Point	41.0	40.4	40.6	8.79	9.02	9.03	360.39	384.41	366.62
Raleigh-Durham	43.7	41.7	42.2	9.08	9.21	9.26	396.80	384.06	390.77
North Dakota	39.0	38.6	39.0	8.39	8.40	8.43	327.21	325.92	328.77
Fargo-Moorhead	39.0	39.8	39.6	6.73	8.43	8.38	340.47	335.51	331.06
Ohio	43.3	43.7	43.8	11.84	12.17	12.19	512.67	531.83	533.92
Akron	44.2	42.9	43.2	11.40	11.58	11.59	503.88	496.78	500.69
Canton	42.2	42.9	42.8	11.29	11.44	11.46	476.44	490.76	490.49
Cincinnati	43.9	43.1	43.2	11.12	11.31	11.32	488.17	487.46	489.02
Cleveland	44.0	43.9	44.4	11.66	12.03	12.15	513.04	528.12	539.46
Columbus	41.9	41.9	42.0	11.35	11.68	11.72	475.57	489.39	492.24
Dayton-Springfield	42.6	44.6	44.7	12.08	13.02	12.96	517.02	580.69	579.31
Toledo	43.3	45.1	45.3	12.86	13.43	13.48	556.84	805.69	610.64
Youngstown-Warren	41.7	43.4	43.0	13.43	13.68	13.62	560.03	593.71	585.66
Oklahoma	41.7	41.7	41.9	10.40	10.70	10.54	433.68	446.19	441.63
Oklahoma City	42.0	43.5	43.7	11.51	11.94	11.53	483.42	519.39	503.86
Tulsa	43.5	42.7	42.8	10.73	10.72	10.84	466.76	457.74	463.95
Oregon	39.3	39.2	40.2	10.71	10.72	10.77	420.90	420.22	432.95
Eugene-Springfield	39.8	39.6	40.9	10.88	10.45	10.55	433.02	413.82	431.50
Portland	40.2	40.0	40.4	10.88	10.85	10.73	437.38	434.00	433.49
Salem	37.6	37.9	38.2	9.45	8.92	9.29	355.32	338.07	354.88

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Pennsylvania	41.8	41.7	41.1	\$10.21	\$10.43	\$10.49	\$426.78	\$434.93	\$431.14
Allentown-Bethlehem	40.7	40.6	39.7	10.55	10.42	10.35	429.39	423.05	410.90
Altoona	39.3	41.4	41.0	8.63	9.07	8.85	339.16	375.50	382.85
Beaver County	41.6	42.9	43.2	10.92	10.88	10.92	454.27	466.75	471.74
Erie	43.6	44.2	43.3	10.39	10.66	10.88	453.00	471.17	462.44
Harrisburg-Lebanon-Carlisle	40.8	40.6	40.1	9.50	9.93	9.93	385.70	403.16	398.19
Johnstown	39.7	40.2	39.6	8.59	8.37	8.35	341.02	336.47	330.66
Lancaster	41.3	41.5	41.6	9.89	10.35	10.44	408.48	429.53	434.30
Philadelphia PMSA	41.2	41.2	41.5	11.07	11.48	11.56	456.08	472.98	479.74
Pittsburgh	43.3	42.6	42.4	11.34	11.32	11.30	491.02	482.23	479.12
Reading	42.1	41.7	40.8	10.58	11.06	11.14	444.58	461.20	454.51
Scranton-Wilkes-Barre	39.2	39.0	38.2	8.91	9.02	9.15	349.27	351.78	348.53
Williamsport	41.7	40.7	40.2	8.64	9.14	9.18	360.29	372.00	369.04
York	44.0	42.4	42.5	9.57	9.94	10.10	421.08	421.46	429.25
Rhode Island	40.2	39.4	39.5	8.38	8.77	8.70	336.88	345.54	343.65
Pawtucket-Woonsocket-Attleboro	40.9	39.1	39.4	7.91	8.27	8.26	323.52	323.36	325.44
Providence	39.8	39.0	38.8	8.37	8.59	8.63	333.13	335.01	334.84
South Carolina	42.3	41.4	41.5	8.20	8.34	8.36	346.86	345.28	346.94
Charleston	42.7	41.0	40.9	9.08	9.17	9.18	387.72	375.97	375.46
Columbia	41.8	41.5	41.8	8.08	8.51	8.54	337.74	353.16	358.97
Greenville-Spartanburg	42.0	41.3	41.7	8.12	8.32	8.34	341.04	343.82	347.78
South Dakota	42.5	41.2	43.2	8.18	8.20	8.30	346.80	337.84	358.56
Sioux Falls	43.6	45.2	44.1	8.02	8.43	8.75	349.87	381.04	385.88
Tennessee	43.0	41.5	42.3	8.90	9.06	9.17	382.70	375.99	387.89
Chattanooga	43.7	42.3	41.7	7.85	8.17	8.26	343.05	345.59	344.44
Johnson City-Kingsport-Bristol	44.5	43.1	45.2	9.33	9.41	9.58	415.19	405.57	433.02
Knoxville	43.2	39.6	40.0	8.99	8.87	8.76	388.37	351.25	350.40
Memphis	43.1	41.9	41.9	9.26	9.03	9.01	399.11	378.36	377.52
Nashville	43.2	42.2	42.3	10.66	10.49	10.71	460.51	442.68	453.03
Texas	42.8	42.0	42.5	9.99	10.00	10.13	427.57	420.00	430.53
Dallas	42.3	41.8	42.0	9.93	9.98	10.01	420.04	417.16	420.42
Ft. Worth-Arlington	42.4	41.3	41.4	10.39	10.86	10.89	440.54	448.52	450.85
Houston	44.5	43.9	44.4	11.42	11.58	11.84	508.19	508.36	525.70
San Antonio	40.1	39.8	39.4	7.59	7.57	7.65	304.36	301.29	301.41
Utah	40.7	41.2	40.8	10.04	10.10	10.18	408.83	416.12	415.34
Salt Lake City-Ogden	40.9	41.1	41.3	9.99	9.97	10.00	408.59	409.77	413.00
Vermont	42.1	41.3	42.0	9.23	9.79	9.97	388.58	404.33	418.74
Burlington	41.3	41.4	42.4	9.71	10.98	10.87	401.02	454.57	460.89
Virginia	41.8	41.8	41.3	9.31	9.51	9.51	389.16	397.52	392.76
Bristol	43.4	43.1	42.6	8.04	7.67	7.67	348.94	330.58	326.74
Charlottesville	43.4	43.6	43.1	7.46	7.75	7.89	323.76	337.90	340.06
Danville	43.1	40.9	41.5	8.55	8.46	8.45	368.51	346.01	350.68
Lynchburg	42.8	41.7	41.4	8.67	9.18	9.16	371.08	382.81	379.22
Northern Virginia	39.9	40.5	40.1	10.23	10.84	10.69	408.18	439.02	428.67
Richmond-Petersburg	42.4	42.7	43.0	12.10	11.96	12.16	513.04	510.69	522.88
Roanoke	43.0	41.8	42.1	9.11	9.79	9.86	391.73	409.22	415.11
Washington	39.9	40.5	41.0	11.69	11.81	11.99	466.43	478.31	491.59

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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
West Virginia	41.4	42.0	42.0	\$10.71	\$11.03	\$10.95	\$443.39	\$463.26	\$459.90
Charleston	43.3	45.2	45.4	13.20	13.78	13.25	571.58	621.95	601.55
Huntington-Ashland	42.0	40.8	41.5	12.27	12.58	12.52	515.34	513.28	519.58
Parkersburg-Marietta	42.8	41.9	41.4	11.77	12.73	12.31	503.78	533.39	509.83
Wheeling	42.1	42.4	40.0	12.01	12.33	11.98	505.62	522.79	479.20
Wisconsin	42.3	42.2	42.3	10.72	10.72	10.71	453.46	452.38	453.03
Appleton-Oshkosh	44.0	43.7	44.7	11.17	11.35	11.52	491.48	496.00	514.94
Eau Claire	41.4	40.2	39.7	11.02	10.50	10.43	456.23	422.10	414.07
Green Bay	42.5	43.4	42.7	11.50	11.58	11.67	488.75	502.57	498.31
Janesville-Beloit	40.1	45.0	45.9	12.08	12.92	13.27	484.41	581.40	609.09
Kenosha	40.8	45.0	42.0	12.57	13.89	12.90	510.34	618.05	541.80
La Crosse	40.8	41.9	41.9	8.95	9.03	9.14	365.18	378.36	382.97
Madison	40.8	42.1	42.2	10.20	9.62	10.16	416.18	413.42	428.75
Milwaukee	42.8	42.3	42.1	11.71	11.66	11.49	498.65	493.22	483.73
Racine	43.5	39.9	39.7	11.29	10.92	10.93	491.12	435.71	433.92
Wausau	44.1	42.4	42.9	10.01	10.11	10.10	441.44	428.66	433.29
Wyoming	38.3	38.9	38.9	8.98	9.90	10.21	343.93	385.11	397.17
Puerto Rico	38.9	37.1	39.2	5.44	5.61	5.62	211.62	208.13	220.30
Virgin Islands	41.7	41.4	41.8	9.75	10.07	10.07	406.57	418.90	418.91

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 1988 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		
	Nov. 1988 ^r	Dec. 1988 ^r	Jan. 1989 ^p	Jan. 1988 to Jan. 1989 ^p	Nov. 1988 to Dec. 1988 ^r	Dec. 1988 to Jan. 1989 ^p
Total	198,938	200,009	201,689	4.2	0.5	0.8
Private sector	164,545	164,824	166,373	4.5	.2	.9
Mining	1,570	1,575	1,584	.6	.3	.6
Construction	10,845	10,658	10,830	11.0	-1.7	1.6
Manufacturing	42,137	41,952	42,128	2.1	-.4	.4
Durable goods	25,215	25,080	25,161	2.6	-.5	.3
Nondurable goods	16,922	16,873	16,966	1.3	-.3	.6
Transportation and public utilities	11,583	11,615	11,731	4.2	.3	1.0
Wholesale trade	12,380	12,463	12,601	5.9	.7	1.1
Retail trade	29,233	29,405	29,882	4.5	.6	1.6
Finance, insurance, and real estate	12,504	12,568	12,754	2.0	.5	1.5
Services	44,292	44,589	44,863	5.8	.7	.6
Government	34,393	35,185	35,315	2.9	2.3	.4

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

^p = preliminary.

^r = revised.

NOTE: Data refer to hours of all employees—production workers,

nonsupervisory workers, and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods*, BLS Bulletin 2285, chapter 10, Productivity Measures: Business Sector and Major Subsectors. SOURCE: Office of Productivity and Technology (202 523 9261).

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

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

(1977 = 100)

Item	Annual average		Quarterly index										
	1987	1988 ^p	1986			1987			1988				
			II	III	IV	I	II	III	IV	I	II	III ^r	IV ^p
Business sector													
Output per hour of all persons	111.0	112.1	110.4	110.0	109.8	109.9	110.6	111.7	111.8	112.8	111.8	112.3	111.8
Output	133.3	139.3	128.2	128.5	129.3	130.5	132.2	134.3	136.2	138.0	138.8	139.8	140.5
Hours	120.1	124.2	116.1	116.8	117.8	118.8	119.5	120.3	121.8	122.3	124.1	124.5	125.7
Compensation per hour	190.4	199.5	182.0	184.0	186.2	187.3	189.0	191.1	194.0	195.8	198.1	201.1	203.4
Real compensation per hour	101.5	102.2	101.2	101.7	102.2	101.5	101.2	101.4	102.0	102.1	102.1	102.4	102.5
Unit labor costs	171.5	177.9	164.9	167.3	169.6	170.5	170.8	171.1	173.5	173.5	177.1	179.0	182.0
Unit nonlabor payments	168.7	171.5	165.2	166.6	163.7	165.6	168.7	171.5	168.9	170.0	170.4	172.7	173.0
Implicit price deflator	170.5	175.7	165.0	167.0	167.5	168.7	170.1	171.2	171.9	172.3	174.7	176.8	178.8
Nonfarm business sector													
Output per hour of all persons	109.0	110.5	108.4	108.0	107.8	107.8	108.6	109.6	109.9	110.8	110.1	110.7	110.7
Output	133.0	139.8	127.8	128.1	128.8	130.1	131.9	134.1	136.0	137.9	139.2	140.5	141.7
Hours	122.1	126.5	117.9	118.6	119.5	120.7	121.5	122.3	123.8	124.4	126.4	126.9	128.0
Compensation per hour	189.4	198.2	181.2	183.1	185.4	186.4	187.9	190.0	192.9	194.6	196.6	199.4	202.1
Real compensation per hour	101.0	101.5	100.7	101.2	101.8	101.0	100.6	100.8	101.4	101.5	101.3	101.6	101.9
Unit labor costs	173.8	179.3	167.1	169.5	172.1	172.9	173.0	173.3	175.6	175.7	178.6	180.2	182.6
Unit nonlabor payments	170.2	173.4	166.6	168.1	164.9	167.2	169.8	173.0	170.9	171.6	171.8	173.9	176.2
Implicit price deflator	172.5	177.2	167.0	169.0	169.5	170.9	171.9	173.2	174.0	174.2	176.2	178.0	180.4
Manufacturing													
Output per hour of all persons	132.0	136.1	127.2	128.0	128.8	130.0	131.7	132.8	133.2	134.3	135.5	137.2	137.5
Output	130.1	138.1	124.1	124.8	125.9	127.2	128.7	131.1	133.5	135.0	136.9	139.3	141.0
Hours	98.6	101.4	97.6	97.4	97.7	97.8	97.7	98.8	100.2	100.6	101.1	101.5	102.5
Compensation per hour	186.9	193.6	182.0	183.6	185.3	185.9	186.3	187.2	188.2	190.7	192.1	194.4	196.9
Real compensation per hour	99.7	99.1	101.2	101.5	101.7	100.8	99.7	99.3	99.0	99.4	99.0	99.0	99.3
Unit labor costs	141.7	142.2	143.2	143.4	143.8	143.1	141.4	141.0	141.3	142.1	141.8	141.6	143.2
Durable goods													
Output per hour of all persons	138.5	143.1	132.6	133.9	135.1	136.6	138.1	139.1	140.0	141.3	142.7	144.2	144.2
Output	136.0	144.9	130.0	130.7	131.8	133.3	134.2	136.5	139.9	141.3	144.0	146.4	148.1
Hours	98.2	101.3	98.0	97.6	97.6	97.6	97.2	98.2	99.9	100.0	100.9	101.5	102.7
Compensation per hour	185.2	191.8	180.8	182.2	184.2	184.9	184.4	185.3	186.2	189.5	190.1	192.3	195.1
Real compensation per hour	98.8	98.2	100.5	100.7	101.2	100.2	98.8	98.3	97.9	98.8	98.0	98.0	98.3
Unit labor costs	133.7	134.0	136.3	136.0	136.4	135.3	133.5	133.2	133.0	134.1	133.3	133.4	135.3
Nondurable goods													
Output per hour of all persons	122.3	125.8	118.9	119.2	119.6	120.1	122.4	123.5	123.2	123.9	124.8	126.9	127.6
Output	121.4	127.8	115.4	115.9	117.0	118.0	120.5	123.1	124.0	125.6	126.4	128.8	130.4
Hours	99.3	101.6	97.0	97.2	97.9	98.2	98.4	99.7	100.7	101.4	101.3	101.5	102.2
Compensation per hour	190.1	196.8	184.0	186.0	187.2	188.0	189.7	190.8	191.9	193.2	195.7	197.9	200.1
Real compensation per hour	101.4	100.8	102.3	102.8	102.8	101.9	101.6	101.2	100.9	100.8	100.9	100.8	100.8
Unit labor costs	155.4	156.4	154.7	156.0	156.5	156.4	155.0	154.5	155.8	156.0	156.8	156.0	156.8
Nonfinancial corporations													
Output per all-employee hour	111.3	(¹)	109.3	109.6	110.3	110.1	110.9	112.2	112.2	113.3	112.9	112.7	(¹)
Output	134.6	(¹)	128.3	128.9	130.4	131.3	133.3	136.1	137.7	140.1	141.2	142.0	(¹)
Hours	120.9	(¹)	117.3	117.6	118.1	119.3	120.2	121.3	122.8	123.6	125.0	126.1	(¹)
Compensation per hour	185.5	(¹)	178.5	180.2	182.2	182.9	184.3	186.1	188.5	189.9	191.9	194.5	(¹)
Real compensation per hour	98.9	(¹)	99.2	99.6	100.1	99.1	98.7	98.7	99.1	99.0	98.9	99.1	(¹)
Total unit costs	170.6	(¹)	166.7	168.4	168.8	169.9	170.3	170.2	172.0	171.5	173.8	176.4	(¹)
Unit labor costs	166.6	(¹)	163.3	164.3	165.1	166.2	166.1	165.9	168.1	167.5	170.0	172.6	(¹)
Unit nonlabor costs	182.5	(¹)	176.9	180.3	179.6	180.8	182.6	183.0	183.6	183.4	185.1	187.8	(¹)
Unit profits	130.8	(¹)	132.7	133.6	129.7	128.5	129.8	136.4	128.3	132.5	132.6	129.6	(¹)
Implicit price deflator	165.8	(¹)	162.6	164.2	164.1	164.9	165.4	166.1	166.7	166.9	168.8	170.8	(¹)

¹ Not available.

^p =preliminary.

=revised.

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

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

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

Item	Percent change from											
	Previous quarter						Same quarter, previous year					
	III 1987	IV 1987	I 1988	II 1988	III 1988 ^r	IV 1988 ^p	III 1987	IV 1987	I 1988	II 1988	III 1988 ^r	IV 1988 ^p
Business sector												
Output per hour of all persons	3.9	0.6	3.5	-3.4	1.7	-2.0	1.5	1.9	2.7	1.1	0.6	-0.1
Output	6.6	5.7	5.5	2.4	2.8	2.1	4.5	5.3	5.8	5.0	4.1	3.2
Hours	2.6	5.1	1.9	6.0	1.1	4.1	3.0	3.4	3.0	3.9	3.5	3.3
Compensation per hour	4.6	6.2	3.7	4.8	6.2	4.7	3.9	4.2	4.5	4.8	5.2	4.8
Real compensation per hour .....	.8	2.4	.3	.0	1.4	.3	-.3	-.2	.5	.9	1.0	.5
Unit labor costs .....	.7	5.6	.2	8.5	4.4	6.8	2.3	2.3	1.8	3.7	4.6	4.9
Unit nonlabor payments	6.7	-5.8	2.5	1.0	5.3	.8	2.9	3.2	2.7	1.0	.7	2.4
Implicit price deflator	2.8	1.4	1.0	5.8	4.7	4.7	2.5	2.6	2.1	2.7	3.2	4.0
Nonfarm business sector												
Output per hour of all persons	3.7	.9	3.4	-2.4	2.0	.0	1.5	1.9	2.8	1.4	1.0	.7
Output	6.8	5.9	5.6	4.0	3.5	3.6	4.7	5.6	6.0	5.6	4.7	4.2
Hours	2.9	4.9	2.1	6.6	1.5	3.5	3.2	3.6	3.1	4.1	3.8	3.4
Compensation per hour	4.5	6.4	3.5	4.2	5.7	5.6	3.7	4.1	4.4	4.6	5.0	4.8
Real compensation per hour .....	.6	2.6	.1	-.5	.9	1.2	-.4	-.4	.5	.7	.8	.4
Unit labor costs .....	.7	5.4	.1	6.8	3.7	5.6	2.2	2.1	1.6	3.2	4.0	4.0
Unit nonlabor payments	7.7	-4.8	1.6	.7	4.8	5.4	2.9	3.6	2.6	1.2	.5	3.1
Implicit price deflator	3.1	1.8	.6	4.7	4.1	5.5	2.5	2.6	1.9	2.5	2.8	3.7
Manufacturing												
Output per hour of all persons	3.2	1.3	3.2	3.7	5.2	.9	3.7	3.4	3.3	2.8	3.3	3.2
Output	7.8	7.5	4.6	5.8	7.1	4.9	5.1	6.0	6.2	6.4	6.2	5.6
Hours	4.4	6.1	1.3	2.0	1.8	3.9	1.4	2.6	2.8	3.4	2.8	2.3
Compensation per hour	2.1	2.1	5.4	3.0	4.8	5.4	2.0	1.6	2.6	3.2	3.8	4.6
Real compensation per hour	-1.7	-1.5	2.0	-1.7	.0	1.0	-2.1	-2.7	-1.3	-.7	-.3	.3
Unit labor costs	-1.1	.8	2.2	-.7	-.5	4.4	-1.7	-1.8	-.7	.3	.5	1.3
Durable goods												
Output per hour of all persons	2.9	2.6	3.8	3.8	4.3	.1	3.8	3.7	3.4	3.3	3.6	3.0
Output	7.0	10.2	4.3	7.7	6.8	4.7	4.5	6.1	6.0	7.3	7.2	5.9
Hours	4.0	7.3	.4	3.8	2.4	4.6	.6	2.3	2.5	3.8	3.4	2.8
Compensation per hour	2.0	1.9	7.1	1.4	4.7	5.8	1.7	1.1	2.5	3.1	3.8	4.8
Real compensation per hour	-1.7	-1.7	3.6	-3.2	.0	1.4	-2.4	-3.2	-1.4	-.8	-.3	.4
Unit labor costs	-9	-.7	3.2	-2.3	.5	5.7	-2.1	-2.5	-.9	-.2	.1	1.7
Nondurable goods												
Output per hour of all persons	3.8	-1.1	2.3	3.2	6.8	2.2	3.6	3.0	3.1	2.0	2.7	3.6
Output	9.0	3.1	5.1	2.7	7.7	5.1	6.2	6.0	6.4	4.9	4.6	5.1
Hours	5.1	4.2	2.7	-.5	.9	2.8	2.5	2.9	3.2	2.9	1.8	1.5
Compensation per hour	2.4	2.2	2.9	5.2	4.6	4.4	2.6	2.5	2.8	3.2	3.7	4.3
Real compensation per hour	-1.4	-1.4	-.5	.4	-.1	.1	-1.5	-1.9	-1.1	-.7	-.4	.0
Unit labor costs	-1.3	3.4	.6	2.0	-2.0	2.2	-1.0	-.5	-.3	1.1	1.0	.7
Nonfinancial corporations												
Output per all-employee hour	4.7	-.1	4.3	-1.6	-.8	(¹)	2.3	1.6	3.0	1.8	.4	(¹)
Output	8.8	4.7	7.2	3.0	2.5	(¹)	5.6	5.6	6.7	5.9	4.3	(¹)
Hours	4.0	4.8	2.8	4.7	3.3	(¹)	3.2	3.9	3.6	4.1	3.9	(¹)
Compensation per hour	4.1	5.2	3.0	4.2	5.5	(¹)	3.3	3.4	3.8	4.1	4.5	(¹)
Real compensation per hour .....	.3	1.5	-.4	-.6	.8	(¹)	-.9	-1.0	-.1	.2	.3	(¹)
Total unit costs	-.2	4.2	-1.0	5.3	6.3	(¹)	1.1	1.9	1.0	2.1	3.7	(¹)
Unit labor costs	-.6	5.3	-1.2	5.9	6.4	(¹)	.9	1.8	.8	2.3	4.0	(¹)
Unit nonlabor costs .....	.8	1.3	-.3	3.7	6.1	(¹)	1.5	2.2	1.5	1.4	2.7	(¹)
Unit profits	21.9	-21.5	13.8	.3	-8.9	(¹)	2.0	-1.1	3.1	2.2	-5.0	(¹)
Implicit price deflator	1.7	1.5	.3	4.8	4.8	(¹)	1.2	1.6	1.2	2.1	2.8	(¹)

¹ Not available.
^p = preliminary.

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

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Alabama	1,904.7	1,947.8	1,906.3	135.5	135.5	137.7	7.1	7.0	7.2
Birmingham	450.4	460.9	454.2	26.6	25.6	25.4	5.9	5.6	5.6
Huntsville	133.2	137.8	136.0	6.1	6.8	6.7	4.6	4.9	4.9
Mobile	212.1	214.8	211.1	19.5	18.9	20.0	9.2	8.8	9.5
Montgomery	138.7	139.7	136.2	8.1	8.6	8.0	5.8	6.2	5.9
Tuscaloosa	71.0	72.7	71.4	3.8	3.5	3.7	5.4	4.8	5.1
Alaska	237.7	237.1	236.0	23.7	21.3	21.3	10.0	9.0	9.0
Arizona	1,652.3	1,764.4	1,753.8	95.2	116.2	114.0	5.8	6.6	6.5
Phoenix	1,020.8	1,085.6	1,078.2	50.0	60.7	59.1	4.9	5.6	5.5
Tucson	315.4	335.0	333.6	15.2	18.6	18.1	4.8	5.6	5.4
Arkansas	1,086.8	1,117.8	1,102.7	87.2	75.6	76.9	8.0	6.8	7.0
Fayetteville-Springdale	58.4	62.1	61.3	2.7	2.6	2.4	4.6	4.2	4.0
Fort Smith	92.6	92.8	92.3	5.5	6.8	7.4	6.0	7.4	8.1
Little Rock-North Little Rock	260.6	267.7	266.7	17.5	15.1	14.3	6.7	5.6	5.4
Pine Bluff	36.4	37.2	36.6	3.1	2.7	2.7	8.6	7.2	7.3
California ¹	13,861.6	14,336.9	14,276.4	677.0	730.7	617.3	4.9	5.1	4.3
Anaheim-Santa Ana	1,303.1	1,367.9	1,367.9	32.6	40.3	33.6	2.5	2.9	2.5
Bakersfield	229.7	231.7	231.9	19.9	23.9	21.0	8.6	10.3	9.1
Fresno	290.4	304.7	307.2	28.4	33.7	28.2	9.8	11.1	9.2
Los Angeles-Long Beach	4,320.0	4,204.5	4,208.4	206.0	186.8	149.6	4.8	4.4	3.6
Modesto	148.9	159.9	157.3	16.3	18.7	16.0	10.9	11.7	10.2
Oakland	1,030.9	1,097.6	1,090.5	41.8	47.5	40.1	4.1	4.3	3.7
Oxnard-Ventura	336.3	360.0	356.5	15.3	20.5	16.4	4.5	5.7	4.6
Riverside-San Bernardino	922.3	985.5	977.3	42.5	54.9	44.7	4.6	5.6	4.6
Sacramento	685.0	737.8	730.8	35.9	38.1	33.8	5.2	5.2	4.6
San Diego	1,069.4	1,155.3	1,144.8	39.2	47.4	38.1	3.7	4.1	3.3
San Francisco	870.6	915.5	911.0	26.3	29.5	25.3	3.0	3.2	2.8
San Jose	806.3	841.1	841.5	28.2	32.9	27.8	3.5	3.9	3.3
Santa Barbara-Santa Maria-Lompoc	175.9	187.2	184.0	7.2	7.8	6.7	4.1	4.1	3.7
Santa Rosa-Petaluma	188.6	201.6	199.2	8.5	9.6	8.4	4.5	4.8	4.2
Stockton	182.2	195.6	192.9	17.8	19.7	17.7	9.8	10.1	9.2
Vallejo-Fairfield-Napa	184.2	196.8	194.2	9.9	10.7	9.1	5.4	5.4	4.7
Colorado	1,692.3	1,755.0	1,755.9	124.6	110.5	107.0	7.4	6.3	6.1
Boulder-Longmont	132.4	137.0	137.5	7.5	6.8	6.8	5.7	4.9	4.9
Denver	892.6	913.6	913.0	60.8	53.5	50.9	6.8	5.9	5.6
Connecticut	1,774.4	1,795.8	1,782.3	55.6	54.7	61.2	3.1	3.0	3.4
Bridgeport-Milford	232.5	235.1	234.4	8.1	8.8	9.8	3.5	3.7	4.2
Hartford	432.7	437.4	434.7	13.9	12.9	14.4	3.2	2.9	3.3
New Haven-Meriden	274.0	281.0	276.8	8.2	7.9	9.0	3.0	2.8	3.2
Stamford	119.9	120.3	119.5	2.5	2.5	2.5	2.1	2.1	2.1
Waterbury	103.4	104.6	104.4	3.9	3.8	4.3	3.8	3.6	4.1
Delaware	340.1	356.7	355.2	8.9	12.1	12.1	2.6	3.4	3.4
Wilmington	296.9	309.2	309.3	8.6	11.0	11.2	2.9	3.6	3.6
District of Columbia	334.9	340.1	336.2	19.7	15.2	15.0	5.9	4.5	4.5
Washington	2,152.5	2,244.8	2,227.3	61.9	65.6	62.4	2.9	2.9	2.8
Florida ¹	6,002.1	6,103.2	6,076.8	297.3	317.5	326.2	5.0	5.2	5.4
Daytona Beach	147.2	150.5	148.7	6.4	7.4	7.6	4.4	4.9	5.1
Fort Lauderdale-Hollywood-Pompano Beach	631.1	647.3	643.8	24.8	27.3	28.7	3.9	4.2	4.5
Fort Myers-Cape Coral	139.1	143.8	145.2	4.7	5.2	5.6	3.4	3.6	3.8
Jacksonville	453.0	468.0	463.8	23.3	25.5	26.6	5.1	5.4	5.7
Melbourne-Titusville-Palm Bay	176.8	185.4	183.5	7.7	8.8	9.4	4.4	4.7	5.1
Miami-Hialeah	920.7	916.6	914.5	49.6	51.7	52.4	5.4	5.6	5.7
Orlando	565.8	579.1	575.7	25.0	27.7	28.1	4.4	4.8	4.9
Pensacola	151.3	151.4	149.5	10.5	9.8	10.4	7.0	6.5	6.9
Sarasota	119.5	121.7	121.1	4.4	4.1	5.0	3.6	3.4	4.1
Tallahassee	124.2	127.9	126.0	4.6	5.0	5.0	3.7	3.9	4.0
Tampa-St. Petersburg-Clearwater	975.6	983.7	977.7	46.0	48.1	50.8	4.7	4.9	5.2
West Palm Beach-Boca Raton-Delray Beach	411.1	430.1	428.6	17.2	21.7	20.2	4.2	5.1	4.7

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Georgia	3,068.8	3,214.9	3,221.0	146.9	162.8	160.5	4.8	5.1	5.0
Athens	71.9	77.4	76.3	3.0	3.4	2.9	4.1	4.4	3.8
Atlanta	1,448.8	1,523.5	1,531.7	57.9	68.8	67.7	4.0	4.5	4.4
Augusta	179.4	184.1	183.9	9.2	9.4	9.2	5.1	5.1	5.0
Columbus	101.2	101.9	101.9	6.8	6.0	5.8	6.8	5.9	5.7
Macon-Warner Robins	128.6	133.3	133.7	5.8	5.8	6.0	4.5	4.3	4.5
Savannah	111.0	113.3	113.4	5.9	6.1	5.9	5.3	5.4	5.2
Hawaii	524.6	523.1	526.7	19.9	15.5	17.1	3.6	3.0	3.2
Honolulu	392.3	389.4	391.0	13.5	10.2	10.9	3.5	2.6	2.8
Idaho	464.6	475.1	471.8	37.4	24.6	25.6	8.0	5.2	5.4
Boise City	105.4	107.9	109.2	5.7	3.7	3.8	5.5	3.4	3.4
Illinois¹	5,715.8	5,908.0	5,854.9	395.7	384.7	363.5	6.9	6.5	6.2
Aurora-Elgin	175.7	183.6	184.8	9.7	9.4	10.0	5.5	5.1	5.4
Bloomington-Normal	65.6	68.9	69.4	3.5	3.5	3.9	5.3	5.1	5.6
Champaign-Urbana-Rantoul	87.1	91.2	90.6	3.8	4.2	3.8	4.4	4.6	4.2
Chicago	3,149.6	3,256.8	3,252.5	193.2	192.3	177.5	6.1	5.9	5.5
Davenport-Rock Island-Moline	180.4	184.0	182.8	14.5	14.0	13.3	8.0	7.6	7.3
Decatur	58.2	58.7	58.7	5.2	5.2	4.3	8.9	8.8	7.3
Joliet	194.5	195.7	195.9	14.8	13.2	13.4	7.6	6.8	6.9
Lake County	266.7	283.4	281.9	12.1	11.7	11.9	4.5	4.1	4.2
Peoria	150.8	156.6	156.3	10.8	10.7	9.9	7.2	6.8	6.3
Rockford	144.1	146.9	146.8	11.9	10.0	9.3	8.3	6.8	6.4
Springfield	108.3	110.9	110.9	6.3	6.2	5.8	5.8	5.6	5.2
Indiana	2,815.9	2,872.3	2,863.9	168.2	155.1	177.8	6.0	5.4	6.2
Anderson	60.2	59.8	59.8	4.0	3.3	3.9	6.6	5.6	6.6
Bloomington	60.7	64.1	63.6	2.4	2.2	2.7	3.9	3.5	4.2
Elkhart-Goshen	95.8	98.2	99.1	4.9	4.4	6.2	5.1	4.5	6.3
Evansville	143.6	146.7	145.5	9.2	8.5	8.6	6.4	5.8	5.9
Fort Wayne	201.3	207.3	205.6	10.8	11.0	11.7	5.4	5.3	5.7
Gary-Hammond	256.2	260.2	259.9	19.3	15.6	17.0	7.5	6.0	6.6
Indianapolis	674.3	689.8	687.3	34.8	34.4	36.5	5.2	5.0	5.3
Lafayette	67.7	68.5	68.7	2.5	2.0	3.1	3.7	2.9	4.6
Muncie	61.4	62.3	61.9	4.2	3.6	3.9	6.9	5.8	6.3
South Bend-Mishawaka	132.3	133.7	133.6	7.0	7.2	7.8	5.3	5.4	5.8
Terre Haute	60.3	60.4	59.7	3.6	3.4	3.7	5.9	5.7	6.2
Iowa	1,448.9	1,506.9	1,497.6	69.6	57.9	63.4	4.8	3.8	4.2
Cedar Rapids	94.2	99.0	98.5	3.6	2.9	3.0	3.8	3.0	3.0
Des Moines	226.6	239.6	239.3	7.7	8.1	8.0	3.4	3.4	3.3
Dubuque	45.2	46.0	46.1	2.6	2.0	2.6	5.7	4.3	5.6
Sioux City	60.2	62.5	62.5	3.5	2.5	2.6	5.8	3.9	4.1
Waterloo-Cedar Falls	68.9	71.2	70.8	4.3	3.1	3.3	6.2	4.3	4.7
Kansas	1,276.6	1,327.2	1,325.1	63.5	61.3	64.1	5.0	4.6	4.8
Topeka	92.1	92.2	91.4	4.8	4.4	4.4	5.3	4.8	4.8
Wichita	255.1	257.8	255.0	12.5	12.0	11.6	4.9	4.7	4.6
Kentucky	1,709.9	1,750.4	1,762.0	139.8	117.9	146.7	8.2	6.7	8.3
Lexington-Fayette	184.9	192.8	192.0	9.0	8.2	10.3	4.9	4.2	5.3
Louisville	513.7	527.2	548.8	33.6	28.7	52.2	6.5	5.4	9.5
Owensboro	45.6	46.1	45.7	4.2	3.1	3.2	9.3	6.7	6.9
Louisiana	1,922.5	1,930.5	1,922.6	182.3	186.4	192.4	9.5	9.7	10.0
Alexandria	61.5	61.6	61.3	5.0	5.6	5.8	8.1	9.0	9.5
Baton Rouge	264.5	266.3	264.8	21.4	23.6	23.6	8.1	8.9	8.9
Houma-Thibodaux	70.6	69.6	69.6	7.7	6.3	6.8	10.9	9.0	9.8
Lafayette	99.0	99.2	98.5	9.1	8.8	8.6	9.1	8.8	8.7
Monroe	69.9	69.1	68.8	5.8	6.4	6.5	8.3	9.2	9.5
New Orleans	596.1	602.3	599.0	48.5	52.1	52.1	8.1	8.7	8.7
Shreveport	165.9	163.8	162.0	15.2	15.4	16.1	9.1	9.4	10.0
Maine	589.5	605.9	594.4	21.6	17.8	20.6	3.7	2.9	3.5
Lewiston-Auburn	41.7	42.5	42.2	1.9	1.5	1.6	4.6	3.4	3.9
Portland	128.0	130.8	130.0	2.4	2.2	2.3	1.9	1.7	1.8

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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Maryland	2,423.0	2,478.4	2,481.0	102.5	108.5	115.2	4.2	4.4	4.6
Baltimore	1,172.6	1,183.9	1,191.9	56.5	55.4	62.7	4.8	4.7	5.3
Massachusetts ¹	3,087.3	3,145.8	3,134.7	81.8	110.8	94.2	2.6	3.5	3.0
Boston	1,539.4	1,555.6	1,550.8	35.3	46.7	39.4	2.3	3.0	2.5
Brockton	96.9	100.1	99.9	2.7	4.0	3.4	2.8	4.0	3.4
Fall River	75.8	77.3	77.5	3.3	4.0	4.0	4.4	5.2	5.2
Fitchburg-Leominster	45.2	45.8	45.6	1.4	2.2	1.9	3.2	4.8	4.1
Lawrence-Haverhill	182.7	183.4	182.4	6.5	8.2	7.1	3.5	4.5	3.9
Lowell	148.8	150.2	149.5	4.0	5.9	4.6	2.7	3.9	3.1
New Bedford	84.1	87.1	87.3	3.3	4.3	4.2	3.9	4.9	4.8
Springfield	252.8	253.2	252.8	6.5	9.1	7.7	2.6	3.6	3.1
Worcester	218.4	223.8	224.0	5.5	6.9	5.9	2.5	3.1	2.6
Michigan ¹	4,491.2	4,651.6	4,611.4	372.3	314.7	326.7	8.3	6.8	7.1
Ann Arbor	159.9	168.9	166.7	5.9	5.4	5.2	3.7	3.2	3.1
Battle Creek	64.0	66.3	65.7	5.3	4.0	4.3	8.3	6.1	6.5
Benton Harbor	76.6	80.8	79.4	5.7	5.6	5.5	7.5	7.0	6.9
Detroit	2,164.3	2,223.1	2,213.6	175.9	148.8	153.0	8.1	6.7	6.9
Flint	199.8	195.9	194.1	27.8	21.0	19.7	13.9	10.7	10.1
Grand Rapids	348.2	367.3	368.0	21.2	18.4	21.9	6.1	5.0	6.0
Kalamazoo	115.3	120.9	119.2	6.1	5.5	5.5	5.3	4.5	4.6
Lansing-East Lansing	237.6	248.1	245.1	15.3	13.6	13.2	6.5	5.5	5.4
Muskegon	66.9	69.4	68.8	6.2	6.2	6.2	9.3	8.9	9.1
Saginaw-Bay City-Midland	184.5	192.7	190.1	15.5	12.2	12.3	8.4	6.3	6.5
Minnesota	2,299.7	2,353.0	2,328.7	134.8	106.4	110.0	5.9	4.5	4.7
Duluth	107.2	108.2	105.9	9.5	6.2	6.2	8.9	5.7	5.9
Minneapolis-St. Paul	1,377.3	1,399.3	1,384.8	63.0	55.3	52.1	4.6	3.9	3.8
Rochester	58.9	60.9	60.4	2.5	2.2	2.2	4.2	3.7	3.6
St. Cloud	95.7	97.7	99.0	7.3	4.9	7.0	7.6	5.0	7.1
Mississippi	1,148.7	1,158.7	1,146.3	100.1	99.0	101.9	8.7	8.5	8.9
Jackson	200.3	204.3	202.7	11.6	12.4	11.7	5.8	6.1	5.8
Missouri	2,611.9	2,635.4	2,618.7	165.2	150.5	155.7	6.3	5.7	5.9
Kansas City	846.9	836.0	835.4	46.6	42.5	47.0	5.5	5.1	5.6
St. Louis	1,282.3	1,291.5	1,284.5	83.5	81.7	77.7	6.5	6.3	6.0
Springfield	124.5	128.6	128.1	5.9	5.7	5.7	4.7	4.4	4.5
Montana	397.1	403.7	393.0	26.4	24.1	24.9	6.7	6.0	6.3
Nebraska	816.1	828.7	819.4	40.0	29.9	32.6	4.9	3.6	4.0
Lincoln	123.2	127.3	126.2	4.5	3.5	4.4	3.6	2.8	3.5
Omaha	323.9	334.4	334.6	16.0	13.0	12.8	4.9	3.9	3.8
Nevada	569.9	596.2	595.4	36.1	25.8	28.8	6.3	4.3	4.8
Las Vegas	332.7	347.4	347.2	21.4	15.3	17.2	6.4	4.4	5.0
Reno	140.6	143.9	143.7	8.5	5.7	6.6	6.0	4.0	4.6
New Hampshire	599.3	613.5	612.2	12.6	15.3	18.2	2.1	2.5	3.0
Nashua	100.6	100.2	100.4	2.3	3.1	3.3	2.3	3.1	3.2
Portsmouth-Dover-Rochester	132.6	136.8	136.3	2.1	2.3	3.0	1.6	1.7	2.2
New Jersey ¹	3,954.5	3,955.9	4,017.2	141.7	139.5	159.1	3.6	3.5	4.0
Atlantic City	164.7	170.5	169.7	10.5	10.4	11.4	6.4	6.1	6.7
Bergen-Passaic	723.8	721.6	734.4	21.8	21.5	24.8	3.0	3.0	3.4
Jersey City	269.4	266.4	271.0	17.6	15.0	17.7	6.5	5.6	6.5
Middlesex-Somerset-Hunterdon	555.5	563.5	571.8	13.1	13.8	15.1	2.4	2.4	2.6
Monmouth-Ocean	464.2	472.1	479.4	14.0	15.1	17.5	3.0	3.2	3.7
Newark	958.6	950.9	965.8	34.3	34.1	37.5	3.6	3.6	3.9
Trenton	172.4	171.7	174.6	4.7	4.7	5.1	2.7	2.7	2.9
New Mexico	681.5	709.7	703.3	54.6	45.9	46.3	8.0	6.5	6.6
Albuquerque	260.4	271.5	271.9	15.8	13.9	13.5	6.1	5.1	5.0
Las Cruces	55.4	60.1	58.7	3.6	3.4	3.5	6.5	5.7	6.0
Santa Fe	65.0	68.7	67.3	3.5	2.9	2.9	5.4	4.2	4.4

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		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
New York ¹	8,525.6	8,563.6	8,596.2	354.6	371.5	396.1	4.2	4.3	4.6
Albany-Schenectady-Troy	424.3	423.8	425.6	14.1	15.3	17.8	3.3	3.6	4.2
Binghamton	127.8	127.8	127.9	4.4	4.9	5.5	3.5	3.8	4.3
Buffalo	450.8	451.2	452.9	21.3	23.1	25.8	4.7	5.1	5.7
Elmira	41.9	43.8	44.3	1.4	1.8	2.1	3.4	4.0	4.7
Nassau-Suffolk	1,448.3	1,437.6	1,445.8	38.2	47.2	51.3	2.6	3.3	3.5
New York	3,894.8	3,919.2	3,935.3	178.9	177.7	178.8	4.6	4.5	4.5
New York City	3,206.0	3,236.4	3,250.2	161.0	157.6	157.2	5.0	4.9	4.8
Orange County	132.4	134.3	135.0	4.3	5.3	5.8	3.2	4.0	4.3
Poughkeepsie	129.3	130.1	131.0	3.3	3.6	4.2	2.6	2.8	3.2
Rochester	499.3	501.2	501.6	17.8	19.6	21.5	3.6	3.9	4.3
Syracuse	324.3	319.4	319.8	16.5	14.2	15.2	5.1	4.5	4.8
Utica-Rome	136.3	136.8	137.0	6.6	6.9	8.0	4.8	5.0	5.8
North Carolina ¹	3,280.0	3,378.5	3,330.3	136.2	123.0	109.8	4.2	3.6	3.3
Asheville	86.6	88.6	87.7	3.2	2.8	2.3	3.7	3.1	2.6
Charlotte-Gastonia-Rock Hill	638.2	655.0	645.7	21.3	22.1	18.9	3.3	3.4	2.9
Greensboro-Winston-Salem-High Point	515.8	521.5	512.6	16.6	16.9	14.2	3.2	3.2	2.8
Raleigh-Durham	398.9	406.6	401.1	11.5	10.0	8.4	2.9	2.5	2.1
North Dakota	327.5	331.8	325.7	16.3	17.4	18.2	5.0	5.3	5.6
Bismarck	45.1	45.1	44.9	2.3	2.8	2.8	5.1	6.1	6.3
Fargo-Moorhead	87.0	88.1	87.3	3.5	2.6	2.9	4.0	2.9	3.3
Grand Forks	37.3	37.6	37.1	1.4	1.4	1.4	3.8	3.8	3.7
Ohio ¹	5,259.1	5,359.6	5,312.1	322.0	284.4	284.3	6.1	5.3	5.4
Akron	322.6	324.7	325.9	20.0	16.7	18.1	6.2	5.1	5.6
Canton	188.8	190.3	189.3	12.9	10.6	10.4	6.8	5.6	5.5
Cincinnati	754.6	772.6	769.0	38.0	35.8	33.3	5.0	4.6	4.3
Cleveland	931.0	937.4	937.1	50.3	45.4	44.9	5.4	4.8	4.8
Columbus	704.2	721.5	719.9	34.5	34.3	33.0	4.9	4.8	4.6
Dayton-Springfield	464.0	472.5	471.2	23.6	22.1	21.9	5.1	4.7	4.7
Toledo	313.2	318.0	316.5	19.8	17.0	16.5	6.3	5.3	5.2
Youngstown-Warren	219.1	222.5	222.0	17.4	14.1	16.6	7.9	6.3	7.5
Oklahoma	1,546.5	1,519.5	1,508.6	92.9	94.2	90.4	6.0	6.2	6.0
Enid	30.2	28.9	28.9	1.6	1.4	1.4	5.4	4.9	4.8
Lawton	50.2	48.6	48.9	2.2	2.7	2.6	4.5	5.6	5.2
Oklahoma City	504.0	492.3	492.2	24.9	25.0	25.0	4.9	5.1	5.1
Tulsa	342.5	338.9	337.6	23.6	22.7	20.6	6.9	6.7	6.1
Oregon	1,403.7	1,426.8	1,423.7	83.0	78.2	77.2	5.9	5.5	5.4
Eugene-Springfield	139.2	144.2	143.4	7.9	7.5	7.3	5.7	5.2	5.1
Portland	648.7	652.1	654.6	30.7	29.0	28.3	4.7	4.4	4.3
Salem	126.5	132.5	131.3	8.1	7.1	8.1	6.4	5.4	6.1
Pennsylvania ¹	5,752.4	5,738.6	5,765.7	293.4	247.8	242.7	5.1	4.3	4.2
Allentown-Bethlehem	322.7	320.0	325.1	16.1	11.4	12.7	5.0	3.6	3.9
Altoona	60.4	59.7	60.4	4.6	3.6	3.6	7.6	6.0	5.9
Beaver County	62.1	62.2	62.3	5.4	4.5	4.3	8.8	7.2	6.9
Erie	129.4	128.7	128.4	8.2	6.4	6.0	6.4	5.0	4.7
Harrisburg-Lebanon-Carlisle	316.1	317.5	318.1	11.2	11.7	10.3	3.5	3.7	3.2
Johnstown	94.8	93.1	93.7	7.8	5.7	5.7	8.2	6.2	6.1
Lancaster	215.1	217.7	218.9	7.6	6.7	7.0	3.5	3.1	3.2
Philadelphia	2,439.1	2,411.9	2,434.7	91.8	85.2	83.6	3.8	3.5	3.4
Pittsburgh	958.9	945.0	952.3	57.5	44.9	43.6	6.0	4.7	4.6
Reading	174.8	179.5	181.9	7.2	6.2	7.5	4.1	3.5	4.1
Scranton-Wilkes-Barre	353.3	355.0	355.7	22.5	19.1	18.3	6.4	5.4	5.1
Williamsport	60.3	61.8	61.3	3.3	2.8	3.3	5.4	4.5	5.3
York	213.2	219.0	220.1	8.2	8.4	8.5	3.8	3.8	3.9
Rhode Island	525.3	534.4	540.7	18.4	14.6	18.7	3.5	2.7	3.5
Pawtucket-Woonsocket-Attleboro	168.2	171.6	172.7	6.8	6.2	6.9	4.0	3.6	4.0
Providence	343.2	348.6	352.7	11.6	9.0	11.9	3.4	2.6	3.4
South Carolina	1,651.5	1,709.2	1,685.6	84.0	75.5	69.0	5.1	4.4	4.1
Charleston	223.2	235.4	233.9	9.7	8.9	8.1	4.3	3.8	3.5
Columbia	230.0	241.0	237.9	8.3	7.6	6.6	3.6	3.1	2.8
Greenville-Spartanburg	324.6	340.7	335.8	12.1	11.6	9.4	3.7	3.4	2.8
South Dakota	351.1	350.2	346.5	16.8	14.9	16.0	4.8	4.3	4.6
Rapid City	39.6	38.5	38.9	1.9	1.8	1.9	4.8	4.7	5.0
Sioux Falls	74.0	71.1	70.7	3.9	3.1	3.3	5.2	4.3	4.6

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P	Dec. 1987	Nov. 1988	Dec. 1988 ^P
Tennessee	2,370.1	2,371.4	2,357.1	148.1	137.0	137.3	6.2	5.8	5.8
Chattanooga	209.5	215.8	215.2	10.4	12.2	11.3	5.0	5.7	5.3
Johnson City-Kingsport-Bristol	222.6	222.0	221.1	13.8	12.0	11.3	6.2	5.4	5.1
Knoxville	283.3	282.3	281.0	17.8	16.9	18.7	8.2	8.0	6.7
Memphis LMA	455.2	454.2	451.5	25.0	23.2	22.1	5.5	5.1	4.9
Nashville	522.9	511.2	509.7	23.9	21.8	20.9	4.6	4.3	4.1
Texas¹	6,269.2	6,420.0	6,324.6	561.4	552.0	516.9	8.8	6.6	6.2
Abilene	54.2	58.1	55.6	3.4	3.1	3.0	8.3	5.5	5.4
Amarillo	101.3	101.7	99.8	5.1	5.9	5.2	5.0	5.8	5.3
Austin	431.0	431.4	424.4	23.7	22.9	21.2	5.5	5.3	5.0
Beaumont-Port Arthur	160.0	162.4	160.3	15.6	14.8	14.2	9.8	9.1	8.8
Brazoria	61.5	64.1	63.4	6.2	5.9	5.4	7.7	7.0	6.5
Brownsville-Harlingen	96.1	97.8	97.0	12.2	10.9	10.5	12.7	11.1	10.8
Bryan-College Station	58.0	60.6	59.3	2.4	2.5	2.3	4.1	4.1	3.9
Corpus Christi	159.0	181.2	158.4	14.8	13.0	11.8	9.2	8.1	7.4
Dallas	1,460.3	1,478.7	1,458.6	74.8	78.1	70.6	5.1	5.3	4.8
El Paso	234.4	244.0	239.9	22.0	24.9	23.2	9.4	10.2	9.7
Fort Worth-Arlington	679.0	886.0	677.0	37.8	38.8	34.9	5.6	5.8	5.2
Galveston-Texas City	107.4	105.8	103.9	9.4	8.0	7.3	8.8	7.5	7.0
Houston	1,607.3	1,652.6	1,636.9	107.9	97.8	86.1	6.7	5.9	5.4
Killeen-Temple	93.7	97.7	96.3	6.2	7.3	6.8	6.6	7.4	7.1
Laredo	48.2	48.2	48.4	6.3	5.7	8.1	13.7	11.7	12.7
Longview-Marshall	79.0	80.0	79.2	6.7	6.4	6.0	8.4	8.1	7.6
Lubbock	114.3	116.7	116.9	5.8	5.3	6.1	5.1	4.5	5.2
McAllen-Edinburg-Mission	152.1	157.8	159.6	25.0	25.3	26.1	16.5	16.0	16.4
Midland	50.4	50.6	50.2	3.1	2.7	2.7	6.1	5.3	5.3
Odessa	54.1	54.0	53.2	3.7	4.0	3.6	6.8	7.4	6.7
San Angelo	46.0	46.6	46.1	2.4	2.5	2.5	5.3	5.4	5.3
San Antonio	614.0	633.5	627.2	41.4	44.3	40.8	6.7	7.0	6.5
Sherman-Denison	50.1	49.6	49.0	3.3	3.1	2.8	8.6	6.2	5.7
Texarkana	59.0	58.9	58.6	4.3	4.3	3.9	7.3	7.4	6.7
Tyler	77.0	77.4	76.8	5.3	5.3	4.9	6.8	6.8	6.4
Victoria	37.0	38.9	36.0	2.5	2.1	1.9	6.8	5.7	5.3
Waco	94.2	95.2	94.8	6.8	5.4	5.5	7.2	5.6	5.8
Wichita Falls	57.3	58.9	58.4	3.8	3.2	3.1	6.3	5.5	5.3
Utah	759.0	782.4	785.5	44.5	38.4	36.6	5.9	4.9	4.7
Provo-Orem	99.3	108.9	110.0	5.4	4.4	5.8	5.4	4.0	5.3
Salt Lake City-Ogden	505.4	512.8	514.1	28.4	24.4	21.7	5.6	4.8	4.2
Vermont	302.3	304.0	300.5	11.1	8.7	9.4	3.7	2.9	3.1
Burlington	75.5	78.4	77.5	1.8	1.8	1.9	2.4	2.1	2.5
Virginia	3,035.1	3,157.9	3,124.2	119.9	128.9	128.6	4.0	4.1	4.1
Charlottesville	68.3	71.6	70.7	1.7	1.8	2.0	2.5	2.6	2.8
Danville	51.3	53.9	52.9	3.5	3.6	3.6	6.8	6.6	6.7
Lynchburg	72.7	72.9	72.6	3.7	3.3	3.7	5.1	4.5	5.1
Norfolk-Virginia Beach-Newport News	601.8	630.7	622.6	27.3	30.8	29.9	4.5	4.9	4.8
Richmond-Petersburg	440.4	459.5	456.6	16.1	16.6	16.3	3.7	3.6	3.6
Roanoke	120.2	121.9	120.1	5.1	5.4	5.5	4.2	4.5	4.6
Washington	2,286.0	2,300.3	2,311.2	181.1	138.1	137.7	7.9	6.0	6.0
Seattle	1,029.9	1,045.8	1,058.3	62.3	48.6	45.6	6.0	4.6	4.3
West Virginia	751.9	747.2	741.9	74.9	67.5	73.2	10.0	9.0	9.9
Charleston	116.8	116.8	117.1	9.5	9.0	9.7	8.1	7.7	8.3
Huntington-Ashland	128.5	127.4	127.2	12.2	8.8	9.3	9.5	6.9	7.3
Parkersburg-Marietta	71.8	71.2	71.1	5.2	4.5	5.0	7.3	6.4	7.0
Wheeling	72.0	71.9	71.0	6.0	5.1	5.6	8.4	7.2	7.9
Wisconsin	2,530.5	2,601.1	2,590.4	151.1	98.2	106.1	6.0	3.8	4.1
Appleton-Oshkosh-Neenah	167.0	175.2	172.1	9.2	6.4	6.7	5.5	3.6	3.9
Eau Claire	71.9	76.1	75.0	4.6	3.0	3.1	6.4	4.0	4.2
Green Bay	107.6	113.2	112.4	6.3	4.2	4.3	5.9	3.7	3.8
Janesville-Beloit	72.6	75.9	74.6	4.8	3.4	2.7	6.6	4.5	3.6
Kenosha	57.0	55.7	56.9	3.4	2.0	2.2	6.1	3.5	3.9
La Crosse	56.0	58.5	59.1	2.7	1.8	2.1	4.9	3.1	3.5
Madison	218.9	228.6	229.8	7.9	5.9	6.4	3.6	2.6	2.8
Milwaukee	752.4	779.4	783.6	38.5	24.4	26.8	5.1	3.1	3.4
Racine	87.9	89.5	90.5	5.4	3.8	3.8	6.2	4.2	4.2
Wausau	59.8	61.7	60.4	3.8	2.5	2.5	6.3	4.1	4.2
Wyoming	228.2	235.1	229.5	17.4	16.7	17.1	7.6	7.1	7.5

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.

Revised
Seasonally Adjusted
Labor Force Series,
1984–88

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

1. Labor force by sex, age, race, Hispanic origin, and marital status

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Labor force, including resident Armed Forces, total												
1984	113,895	114,299	114,399	114,791	115,339	115,507	115,670	115,394	115,577	115,724	115,869	116,279
1985	116,424	116,562	117,015	117,024	116,991	116,726	117,017	117,009	117,633	117,800	117,829	118,021
1986	118,378	118,566	118,887	119,036	119,300	119,812	119,796	119,807	120,097	120,203	120,374	120,317
1987	120,621	120,859	120,999	121,129	121,828	121,365	121,604	121,981	121,751	122,170	122,282	122,451
1988	122,784	122,901	122,672	123,060	122,917	123,209	123,331	123,692	123,688	123,778	124,215	124,259
Labor force, including resident Armed Forces, men												
1984	64,892	65,013	65,064	65,143	65,217	65,553	65,482	65,398	65,638	65,569	65,700	65,841
1985	65,708	65,661	65,825	65,955	65,927	65,863	65,940	65,964	66,167	66,273	66,207	66,171
1986	66,608	66,647	66,753	66,812	66,857	67,017	66,994	66,921	67,194	67,141	67,394	67,430
1987	67,584	67,637	67,602	67,641	67,865	67,627	67,630	67,871	67,794	67,958	67,998	68,058
1988	68,219	68,289	68,194	68,462	68,409	68,436	68,461	68,685	68,604	68,569	68,686	68,638
Labor force, including resident Armed Forces, women												
1984	49,003	49,286	49,335	49,648	50,122	49,954	50,188	49,996	49,939	50,155	50,169	50,438
1985	50,716	50,901	51,190	51,069	51,064	50,863	51,077	51,045	51,466	51,527	51,621	51,850
1986	51,770	51,919	52,134	52,224	52,443	52,795	52,802	52,886	52,903	53,062	52,980	52,887
1987	53,037	53,222	53,397	53,488	53,963	53,738	53,974	54,110	53,957	54,212	54,284	54,393
1988	54,565	54,612	54,478	54,598	54,508	54,773	54,870	55,007	55,084	55,209	55,529	55,621
Civilian labor force, all civilian workers												
1984	112,209	112,615	112,713	113,098	113,649	113,817	113,972	113,682	113,857	114,019	114,170	114,581
1985	114,727	114,859	115,314	115,322	115,286	115,024	115,313	115,283	115,901	116,100	116,127	116,323
1986	116,687	116,875	117,194	117,341	117,613	118,132	118,124	118,110	118,381	118,454	118,623	118,567
1987	118,873	119,119	119,263	119,394	120,102	119,647	119,884	120,245	120,008	120,429	120,527	120,701
1988	121,035	121,165	120,936	121,328	121,203	121,524	121,658	122,000	121,984	122,091	122,510	122,563
Civilian labor force, men												
1984	63,350	63,473	63,522	63,595	63,672	64,008	63,931	63,835	64,067	64,012	64,148	64,291
1985	64,159	64,107	64,272	64,402	64,371	64,311	64,386	64,390	64,587	64,722	64,655	64,622
1986	65,069	65,108	65,213	65,271	65,324	65,492	65,476	65,380	65,634	65,551	65,802	65,837
1987	65,993	66,053	66,027	66,066	66,299	66,068	66,069	66,296	66,213	66,378	66,405	66,469
1988	66,631	66,712	66,621	66,893	66,856	66,913	66,949	67,156	67,064	67,043	67,144	67,104
Civilian labor force, women												
1984	48,859	49,142	49,191	49,503	49,977	49,809	50,041	49,847	49,790	50,007	50,022	50,290
1985	50,568	50,752	51,042	50,920	50,915	50,713	50,927	50,893	51,314	51,378	51,472	51,701
1986	51,618	51,767	51,981	52,070	52,289	52,640	52,648	52,730	52,747	52,903	52,821	52,730
1987	52,880	53,066	53,236	53,328	53,803	53,579	53,815	53,949	53,795	54,051	54,122	54,232
1988	54,404	54,453	54,315	54,435	54,347	54,611	54,709	54,844	54,920	55,048	55,366	55,459
Civilian labor force, both sexes, 16 to 19 years												
1984	7,965	7,958	7,926	7,988	7,944	8,131	8,045	7,809	7,951	7,862	7,844	7,933
1985	8,037	8,015	8,051	7,964	7,986	7,667	8,000	7,732	7,813	7,889	7,856	7,823
1986	7,715	7,888	7,964	8,058	8,022	8,016	7,897	7,927	7,935	7,974	7,914	7,767
1987	7,883	7,964	7,920	7,935	8,109	7,833	7,877	8,203	7,922	8,078	8,035	8,093
1988	8,152	8,021	7,894	7,963	7,950	8,165	8,122	8,125	8,109	7,975	7,957	7,974
Civilian labor force, men, 16 to 19 years												
1984	4,100	4,132	4,189	4,145	4,132	4,258	4,141	4,029	4,121	4,084	4,140	4,166
1985	4,206	4,152	4,195	4,212	4,190	4,100	4,198	4,086	4,056	4,117	4,052	4,047
1986	3,948	4,071	4,070	4,171	4,184	4,154	4,120	4,127	4,151	4,112	4,106	3,962
1987	4,097	4,165	4,087	4,086	4,128	4,016	3,986	4,245	4,098	4,148	4,107	4,188
1988	4,210	4,098	4,089	4,119	4,135	4,244	4,220	4,240	4,180	4,128	4,149	4,102
Civilian labor force, women, 16 to 19 years												
1984	3,865	3,826	3,737	3,843	3,812	3,873	3,904	3,780	3,830	3,778	3,704	3,767
1985	3,831	3,863	3,856	3,752	3,796	3,567	3,802	3,646	3,757	3,772	3,804	3,776
1986	3,767	3,817	3,894	3,887	3,838	3,862	3,777	3,800	3,784	3,862	3,808	3,805
1987	3,786	3,799	3,833	3,849	3,981	3,817	3,891	3,958	3,824	3,930	3,928	3,905
1988	3,942	3,923	3,805	3,844	3,815	3,921	3,902	3,885	3,929	3,847	3,808	3,872

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

1. Labor force by sex, age, race, Hispanic origin, and marital status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian labor force, both sexes, 20 years and over												
1984	104,244	104,657	104,787	105,110	105,705	105,686	105,927	105,873	105,906	106,157	106,326	106,648
1985	106,690	106,844	107,263	107,358	107,300	107,357	107,313	107,551	108,088	108,211	108,271	108,500
1986	108,972	108,987	109,230	109,283	109,591	110,116	110,227	110,183	110,446	110,480	110,709	110,800
1987	110,990	111,155	111,343	111,459	111,993	111,814	112,007	112,042	112,086	112,351	112,492	112,608
1988	112,883	113,144	113,042	113,365	113,253	113,359	113,536	113,875	113,875	114,116	114,553	114,589
Civilian labor force, men, 20 years and over												
1984	59,250	59,341	59,333	59,450	59,540	59,750	59,790	59,806	59,946	59,928	60,008	60,125
1985	59,953	59,955	60,077	60,190	60,181	60,211	60,188	60,304	60,531	60,605	60,603	60,575
1986	61,121	61,037	61,143	61,100	61,140	61,338	61,356	61,253	61,483	61,439	61,696	61,875
1987	61,896	61,888	61,940	61,980	62,171	62,052	62,083	62,051	62,115	62,230	62,298	62,281
1988	62,421	62,614	62,532	62,774	62,721	62,669	62,729	62,916	62,884	62,915	62,995	63,002
Civilian labor force, women, 20 years and over												
1984	44,994	45,316	45,454	45,660	46,165	45,936	46,137	46,067	45,960	46,229	46,318	46,523
1985	46,737	46,889	47,186	47,168	47,119	47,146	47,125	47,247	47,557	47,606	47,668	47,925
1986	47,851	47,950	48,087	48,183	48,451	48,778	48,871	48,930	48,963	49,041	49,013	48,925
1987	49,094	49,267	49,403	49,479	49,822	49,762	49,924	49,991	49,971	50,121	50,194	50,327
1988	50,462	50,530	50,510	50,591	50,532	50,690	50,807	50,959	50,991	51,201	51,558	51,587
Civilian labor force, both sexes, 20 to 24 years												
1984	16,008	15,984	16,035	16,071	16,091	16,205	16,116	15,911	16,003	16,011	16,072	16,022
1985	15,895	15,832	15,758	15,788	15,743	15,703	15,639	15,600	15,705	15,705	15,638	15,659
1986	15,577	15,681	15,595	15,476	15,434	15,460	15,436	15,315	15,437	15,309	15,323	15,309
1987	15,337	15,251	15,187	15,105	15,052	14,989	14,982	14,941	14,878	14,715	14,701	14,576
1988	14,791	14,726	14,666	14,584	14,427	14,567	14,480	14,474	14,398	14,384	14,283	14,299
Civilian labor force, men, 20 to 24 years												
1984	8,591	8,569	8,611	8,656	8,558	8,750	8,580	8,533	8,611	8,530	8,578	8,539
1985	8,387	8,350	8,297	8,314	8,328	8,311	8,224	8,233	8,265	8,232	8,249	8,221
1986	8,263	8,302	8,285	8,164	8,088	8,139	8,144	8,040	8,142	8,086	8,078	8,107
1987	8,028	8,035	7,952	7,929	7,867	7,845	7,856	7,811	7,772	7,680	7,674	7,586
1988	7,704	7,684	7,678	7,640	7,602	7,608	7,552	7,586	7,550	7,551	7,504	7,466
Civilian labor force, women, 20 to 24 years												
1984	7,417	7,415	7,424	7,415	7,533	7,455	7,536	7,378	7,392	7,481	7,494	7,483
1985	7,508	7,482	7,461	7,474	7,415	7,392	7,415	7,367	7,440	7,473	7,389	7,438
1986	7,314	7,379	7,310	7,312	7,346	7,321	7,292	7,275	7,295	7,223	7,245	7,202
1987	7,309	7,216	7,235	7,176	7,185	7,144	7,126	7,130	7,106	7,035	7,027	6,990
1988	7,087	7,042	6,988	6,944	6,825	6,959	6,928	6,888	6,848	6,833	6,779	6,833
Civilian labor force, both sexes, 25 years and over												
1984	88,235	88,700	88,800	89,079	89,534	89,478	89,821	89,932	89,919	90,122	90,254	90,598
1985	90,819	91,046	91,546	91,593	91,456	91,657	91,703	91,955	92,414	92,464	92,630	92,811
1986	93,429	93,346	93,670	93,815	94,051	94,662	94,827	94,902	95,044	95,116	95,376	95,458
1987	95,704	95,942	96,175	96,335	96,823	96,840	97,074	97,157	97,244	97,576	97,774	97,995
1988	98,129	98,432	98,369	98,735	98,703	98,829	99,122	99,479	99,511	99,680	100,255	100,276
Civilian labor force, men, 25 years and over												
1984	50,642	50,795	50,766	50,839	50,920	50,966	51,184	51,297	51,346	51,373	51,443	51,575
1985	51,566	51,633	51,822	51,898	51,775	51,871	51,957	52,114	52,276	52,338	52,365	52,338
1986	52,865	52,762	52,903	52,943	52,980	53,180	53,212	53,268	53,351	53,315	53,625	53,752
1987	53,884	53,878	54,020	54,034	54,236	54,206	54,241	54,306	54,349	54,511	54,621	54,676
1988	54,724	54,938	54,871	55,101	55,057	55,077	55,207	55,400	55,342	55,331	55,483	55,523
Civilian labor force, women, 25 years and over												
1984	37,593	37,905	38,034	38,240	38,614	38,512	38,637	38,635	38,573	38,749	38,811	39,023
1985	39,253	39,413	39,724	39,695	39,681	39,786	39,746	39,841	40,138	40,126	40,265	40,473
1986	40,564	40,584	40,767	40,872	41,071	41,482	41,615	41,634	41,693	41,801	41,751	41,706
1987	41,820	42,064	42,155	42,301	42,587	42,634	42,833	42,851	42,895	43,065	43,153	43,319
1988	43,405	43,494	43,498	43,634	43,646	43,752	43,915	44,079	44,169	44,349	44,772	44,753

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

1. Labor force by sex, age, race, Hispanic origin, and marital status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian labor force, both sexes, 25 to 54 years												
1984	73,332	73,654	73,887	74,184	74,550	74,654	74,962	75,152	75,020	75,322	75,368	75,702
1985	76,004	76,099	76,426	76,674	76,494	76,760	76,882	77,109	77,571	77,556	77,734	78,019
1986	78,544	78,544	78,789	78,980	79,110	79,594	79,764	79,919	80,171	80,330	80,438	80,664
1987	80,815	81,087	81,233	81,475	81,805	81,796	82,091	82,178	82,276	82,484	82,591	82,879
1988	83,049	83,253	83,325	83,594	83,718	83,786	84,158	84,436	84,430	84,601	84,981	85,086
Civilian labor force, men, 25 to 54 years												
1984	41,756	41,877	41,948	42,044	42,098	42,264	42,409	42,492	42,503	42,623	42,677	42,799
1985	42,794	42,821	42,898	43,078	42,992	43,073	43,208	43,276	43,441	43,501	43,534	43,601
1986	44,031	44,039	44,107	44,158	44,175	44,407	44,480	44,532	44,636	44,623	44,834	44,935
1987	45,099	45,101	45,150	45,207	45,328	45,358	45,459	45,490	45,549	45,680	45,692	45,807
1988	45,907	46,054	46,070	46,272	46,253	46,248	46,445	46,559	46,591	46,615	46,762	46,778
Civilian labor force, women, 25 to 54 years												
1984	31,576	31,777	31,939	32,140	32,452	32,390	32,553	32,660	32,517	32,699	32,691	32,903
1985	33,210	33,278	33,528	33,596	33,502	33,687	33,674	33,833	34,130	34,055	34,200	34,418
1986	34,513	34,505	34,682	34,822	34,935	35,187	35,284	35,387	35,535	35,707	35,604	35,729
1987	35,716	35,986	36,083	36,268	36,477	36,438	36,632	36,688	36,727	36,804	36,899	37,072
1988	37,142	37,199	37,255	37,322	37,465	37,538	37,713	37,877	37,839	37,986	38,219	38,308
Civilian labor force, both sexes, 25 to 34 years												
1984	32,256	32,355	32,409	32,512	32,607	32,715	32,883	32,975	32,839	33,016	32,941	33,047
1985	33,185	33,200	33,289	33,421	33,340	33,467	33,583	33,579	33,995	33,830	33,803	33,919
1986	34,225	34,196	34,369	34,427	34,440	34,662	34,679	34,713	34,843	34,765	34,957	34,898
1987	34,918	35,015	35,076	35,168	35,222	35,229	35,353	35,362	35,266	35,291	35,393	35,443
1988	35,437	35,463	35,420	35,415	35,437	35,429	35,512	35,545	35,527	35,517	35,631	35,693
Civilian labor force, men, 25 to 34 years												
1984	18,275	18,282	18,320	18,367	18,367	18,445	18,573	18,605	18,574	18,656	18,617	18,668
1985	18,649	18,654	18,661	18,781	18,746	18,770	18,837	18,845	18,950	18,949	18,916	18,946
1986	19,305	19,271	19,326	19,318	19,271	19,408	19,416	19,430	19,468	19,374	19,540	19,539
1987	19,578	19,564	19,580	19,612	19,692	19,696	19,692	19,688	19,629	19,683	19,688	19,699
1988	19,722	19,722	19,688	19,727	19,663	19,648	19,768	19,768	19,808	19,790	19,812	19,788
Civilian labor force, women, 25 to 34 years												
1984	13,981	14,073	14,089	14,145	14,240	14,270	14,310	14,370	14,265	14,360	14,324	14,379
1985	14,536	14,546	14,628	14,640	14,594	14,697	14,746	14,734	15,045	14,881	14,887	14,973
1986	14,920	14,925	15,043	15,109	15,169	15,254	15,263	15,283	15,375	15,391	15,417	15,359
1987	15,340	15,451	15,496	15,556	15,530	15,533	15,661	15,674	15,637	15,608	15,705	15,744
1988	15,715	15,741	15,732	15,688	15,774	15,781	15,744	15,777	15,719	15,727	15,819	15,905
Civilian labor force, both sexes, 35 to 44 years												
1984	24,229	24,498	24,565	24,702	24,949	24,917	25,012	25,060	25,156	25,256	25,307	25,525
1985	25,586	25,601	25,775	25,851	25,914	26,054	26,057	26,169	26,227	26,405	26,554	26,631
1986	26,648	26,768	26,837	26,945	27,062	27,171	27,317	27,455	27,523	27,638	27,595	27,829
1987	28,002	28,143	28,166	28,247	28,415	28,379	28,537	28,570	28,669	28,760	28,730	28,848
1988	28,922	29,025	29,096	29,227	29,283	29,331	29,483	29,635	29,626	29,745	29,885	29,909
Civilian labor force, men, 35 to 44 years												
1984	13,765	13,874	13,892	13,939	14,008	14,041	14,058	14,052	14,141	14,179	14,205	14,288
1985	14,305	14,308	14,368	14,414	14,446	14,468	14,503	14,545	14,605	14,650	14,706	14,736
1986	14,772	14,831	14,848	14,883	14,927	14,987	15,056	15,103	15,156	15,212	15,245	15,323
1987	15,452	15,472	15,459	15,456	15,484	15,519	15,614	15,629	15,684	15,729	15,727	15,779
1988	15,798	15,877	15,900	15,990	16,052	16,043	16,106	16,183	16,173	16,209	16,251	16,277
Civilian labor force, women, 35 to 44 years												
1984	10,464	10,624	10,673	10,763	10,941	10,876	10,954	11,008	11,015	11,077	11,102	11,237
1985	11,281	11,293	11,407	11,437	11,468	11,586	11,554	11,624	11,622	11,755	11,848	11,895
1986	11,876	11,937	11,989	12,062	12,135	12,184	12,261	12,352	12,367	12,426	12,350	12,506
1987	12,550	12,671	12,707	12,791	12,931	12,860	12,923	12,941	12,985	13,031	13,003	13,069
1988	13,124	13,148	13,196	13,237	13,231	13,288	13,377	13,452	13,453	13,536	13,634	13,632

HOUSEHOLD DATA
SEASONALLY ADJUSTED

1. Labor force by sex, age, race, Hispanic origin, and marital status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian labor force, both sexes, 45 to 54 years												
1984	16,847	16,801	16,913	16,970	16,994	17,022	17,067	17,117	17,025	17,050	17,120	17,130
1985	17,233	17,298	17,382	17,402	17,240	17,239	17,242	17,361	17,349	17,321	17,377	17,469
1986	17,671	17,580	17,583	17,608	17,808	17,761	17,768	17,751	17,805	17,927	17,888	17,937
1987	17,895	17,929	17,991	18,060	18,168	18,188	18,201	18,246	18,341	18,433	18,468	18,588
1988	18,690	18,765	18,809	18,952	18,998	19,026	19,163	19,256	19,277	19,339	19,465	19,484
Civilian labor force, men, 45 to 54 years												
1984	9,716	9,721	9,736	9,738	9,723	9,778	9,778	9,835	9,788	9,788	9,855	9,843
1985	9,840	9,859	9,889	9,883	9,800	9,835	9,868	9,886	9,886	9,902	9,912	9,919
1986	9,954	9,937	9,933	9,957	9,977	10,012	10,008	9,999	10,012	10,037	10,049	10,073
1987	10,089	10,065	10,111	10,139	10,152	10,143	10,153	10,173	10,236	10,268	10,277	10,329
1988	10,387	10,455	10,482	10,555	10,538	10,557	10,571	10,608	10,610	10,618	10,899	10,713
Civilian labor force, women, 45 to 54 years												
1984	7,131	7,080	7,177	7,232	7,271	7,244	7,289	7,282	7,237	7,262	7,265	7,287
1985	7,393	7,439	7,493	7,519	7,440	7,404	7,374	7,475	7,463	7,419	7,465	7,550
1986	7,717	7,643	7,850	7,651	7,631	7,749	7,760	7,752	7,793	7,890	7,837	7,864
1987	7,826	7,864	7,880	7,921	8,016	8,045	8,048	8,073	8,105	8,165	8,191	8,259
1988	8,303	8,310	8,327	8,397	8,460	8,469	8,592	8,648	8,667	8,723	8,768	8,771
Civilian labor force, both sexes, 55 years and over												
1984	14,960	14,975	14,874	14,932	14,920	14,845	14,861	14,865	14,943	14,805	14,825	14,886
1985	14,871	14,879	15,074	14,945	14,899	14,901	14,831	14,910	14,870	14,917	14,839	14,825
1986	14,923	14,754	14,834	14,843	14,914	15,060	15,069	15,030	14,907	14,815	14,880	14,826
1987	14,917	14,799	14,914	14,856	15,014	15,032	15,005	15,017	14,998	15,123	15,130	15,148
1988	15,095	15,128	15,023	15,133	14,997	15,006	14,971	15,058	15,100	15,109	15,223	15,228
Civilian labor force, men, 55 years and over												
1984	8,913	8,870	8,789	8,795	8,786	8,748	8,789	8,816	8,872	8,762	8,739	8,770
1985	8,792	8,775	8,895	8,819	8,748	8,825	8,771	8,830	8,851	8,854	8,804	8,756
1986	8,856	8,702	8,766	8,776	8,785	8,785	8,764	8,719	8,728	8,721	8,772	8,830
1987	8,801	8,757	8,850	8,812	8,894	8,853	8,827	8,799	8,809	8,867	8,914	8,879
1988	8,830	8,860	8,788	8,813	8,794	8,807	8,802	8,812	8,757	8,748	8,711	8,756
Civilian labor force, women, 55 years and over												
1984	6,047	6,105	6,085	6,137	6,134	6,097	6,072	6,049	6,071	6,043	6,086	6,116
1985	6,079	6,104	6,179	6,126	6,151	6,076	6,060	6,080	6,019	6,063	6,035	6,069
1986	6,067	6,052	6,068	6,067	6,129	6,275	6,305	6,311	6,179	6,094	6,108	5,996
1987	6,116	6,042	6,064	6,044	6,120	6,179	6,178	6,218	6,189	6,256	6,216	6,269
1988	6,265	6,268	6,235	6,320	6,203	6,199	6,169	6,246	6,343	6,361	6,512	6,472
Civilian labor force, both sexes, 55 to 64 years												
1984	11,948	11,994	11,948	12,012	11,984	11,990	11,978	11,949	11,965	11,836	11,906	11,986
1985	11,984	11,971	12,111	12,014	12,013	12,035	11,989	12,035	11,957	11,977	11,929	11,866
1986	11,880	11,760	11,845	11,831	11,890	12,011	12,015	12,006	11,893	11,882	11,889	11,813
1987	11,909	11,804	11,855	11,852	11,930	11,904	11,837	11,778	11,843	11,942	11,952	11,910
1988	11,865	11,863	11,785	11,842	11,737	11,716	11,748	11,812	11,838	11,817	11,798	11,844
Civilian labor force, men, 55 to 64 years												
1984	7,088	7,068	7,033	7,059	7,018	7,026	7,051	7,072	7,073	7,003	7,017	7,072
1985	7,066	7,039	7,102	7,073	7,023	7,118	7,090	7,084	7,062	7,066	7,033	6,966
1986	6,977	6,867	6,931	6,944	6,963	6,962	6,954	6,945	6,962	6,985	6,976	6,996
1987	6,992	6,949	6,995	6,956	6,994	6,941	6,928	6,830	6,902	6,935	6,959	6,905
1988	6,909	6,912	6,861	6,872	6,841	6,806	6,826	6,847	6,811	6,786	6,736	6,755
Civilian labor force, women, 55 to 64 years												
1984	4,860	4,926	4,915	4,953	4,966	4,964	4,927	4,877	4,892	4,833	4,889	4,914
1985	4,918	4,932	5,009	4,941	4,990	4,917	4,899	4,951	4,895	4,911	4,896	4,900
1986	4,903	4,893	4,914	4,887	4,927	5,049	5,061	5,061	4,931	4,897	4,913	4,817
1987	4,917	4,855	4,860	4,896	4,936	4,963	4,909	4,948	4,941	5,007	4,993	5,005
1988	4,956	4,951	4,924	4,970	4,896	4,910	4,922	4,965	5,027	5,031	5,062	5,089

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

1. Labor force by sex, age, race, Hispanic origin, and marital status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian labor force, both sexes, 65 years and over												
1984	3,012	2,981	2,926	2,920	2,936	2,855	2,883	2,916	2,978	2,969	2,919	2,900
1985	2,887	2,908	2,963	2,931	2,886	2,866	2,842	2,875	2,913	2,940	2,910	2,959
1986	3,043	2,994	2,989	3,012	3,024	3,049	3,054	3,024	3,014	2,933	2,991	3,013
1987	3,008	2,995	3,059	3,004	3,084	3,128	3,168	3,239	3,155	3,181	3,178	3,238
1988	3,230	3,265	3,238	3,291	3,260	3,290	3,223	3,246	3,262	3,292	3,425	3,384
Civilian labor force, men, 65 years and over												
1984	1,825	1,802	1,756	1,736	1,768	1,722	1,738	1,744	1,799	1,759	1,722	1,698
1985	1,726	1,736	1,793	1,746	1,725	1,707	1,681	1,746	1,789	1,788	1,771	1,790
1986	1,879	1,835	1,835	1,832	1,822	1,823	1,810	1,774	1,766	1,736	1,796	1,834
1987	1,809	1,808	1,855	1,856	1,900	1,912	1,899	1,969	1,907	1,932	1,955	1,974
1988	1,921	1,948	1,927	1,941	1,953	2,001	1,976	1,965	1,946	1,962	1,975	2,001
Civilian labor force, women, 65 years and over												
1984	1,187	1,179	1,170	1,184	1,168	1,133	1,145	1,172	1,179	1,210	1,197	1,202
1985	1,161	1,172	1,170	1,185	1,161	1,159	1,161	1,129	1,124	1,152	1,139	1,169
1986	1,164	1,159	1,154	1,180	1,202	1,226	1,244	1,250	1,248	1,197	1,195	1,179
1987	1,199	1,187	1,204	1,148	1,184	1,216	1,269	1,270	1,248	1,249	1,223	1,264
1988	1,309	1,317	1,311	1,350	1,307	1,289	1,247	1,281	1,316	1,330	1,450	1,383
Civilian labor force, white workers												
1984	97,695	97,987	98,188	98,337	98,713	98,870	98,720	98,282	98,544	98,659	98,683	99,091
1985	99,308	99,497	99,845	99,765	99,766	99,614	99,746	99,744	100,265	100,538	100,462	100,591
1986	100,903	101,060	101,235	101,292	101,544	102,023	102,070	102,106	102,230	102,338	102,426	102,474
1987	102,624	102,740	102,841	102,935	103,592	103,144	103,271	103,519	103,368	103,718	103,648	103,907
1988	104,188	104,404	104,172	104,517	104,433	104,716	104,651	105,013	105,036	105,051	105,395	105,411
Civilian labor force, white men												
1984	55,791	55,849	55,975	55,949	55,977	56,333	56,083	55,904	56,167	56,105	56,168	56,299
1985	56,256	56,221	56,364	56,459	56,489	56,478	56,444	56,427	56,575	56,748	56,639	56,591
1986	56,962	56,989	57,037	57,053	57,116	57,266	57,203	57,193	57,384	57,339	57,549	57,607
1987	57,679	57,714	57,675	57,619	57,915	57,693	57,608	57,739	57,739	57,945	57,859	57,976
1988	58,104	58,163	58,133	58,220	58,253	58,297	58,317	58,480	58,441	58,417	58,474	58,463
Civilian labor force, white women												
1984	41,904	42,138	42,213	42,388	42,736	42,537	42,637	42,378	42,377	42,554	42,515	42,792
1985	43,052	43,276	43,481	43,306	43,277	43,136	43,302	43,317	43,690	43,790	43,823	44,000
1986	43,941	44,071	44,198	44,239	44,428	44,757	44,867	44,913	44,846	44,999	44,877	44,867
1987	44,945	45,026	45,166	45,316	45,677	45,451	45,663	45,740	45,629	45,773	45,789	45,931
1988	46,084	46,241	46,039	46,297	46,180	46,419	46,334	46,533	46,595	46,634	46,921	46,948
Civilian labor force, white workers, 16 to 19 years												
1984	7,032	7,030	7,052	7,006	6,988	7,119	6,973	6,734	6,922	6,870	6,810	6,911
1985	6,958	6,958	6,985	6,867	6,900	6,686	6,865	6,664	6,784	6,861	6,811	6,781
1986	6,680	6,850	6,877	6,917	6,917	6,913	6,801	6,882	6,892	6,951	6,902	6,776
1987	6,844	6,893	6,908	6,878	7,058	6,780	6,794	6,995	6,815	6,928	6,861	6,966
1988	7,041	6,929	6,864	6,909	6,843	7,103	6,981	7,000	7,006	6,892	6,848	6,869
Civilian labor force, white men, 16 to 19 years												
1984	3,612	3,630	3,697	3,616	3,628	3,722	3,594	3,455	3,576	3,573	3,585	3,625
1985	3,635	3,591	3,632	3,639	3,644	3,578	3,618	3,496	3,500	3,591	3,503	3,500
1986	3,428	3,510	3,503	3,572	3,581	3,590	3,539	3,558	3,610	3,592	3,572	3,453
1987	3,535	3,600	3,574	3,530	3,605	3,476	3,438	3,587	3,529	3,581	3,497	3,607
1988	3,634	3,536	3,592	3,567	3,531	3,639	3,605	3,616	3,602	3,556	3,552	3,565
Civilian labor force, white women, 16 to 19 years												
1984	3,420	3,400	3,355	3,390	3,360	3,397	3,379	3,279	3,346	3,297	3,225	3,286
1985	3,323	3,367	3,353	3,228	3,256	3,108	3,247	3,168	3,284	3,270	3,308	3,281
1986	3,252	3,340	3,374	3,345	3,336	3,323	3,262	3,324	3,282	3,359	3,330	3,323
1987	3,309	3,293	3,334	3,348	3,453	3,304	3,356	3,408	3,286	3,347	3,364	3,359
1988	3,407	3,393	3,272	3,342	3,312	3,464	3,376	3,384	3,404	3,336	3,296	3,304

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

1. Labor force by sex, age, race, Hispanic origin, and marital status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian labor force, white workers, 20 years and over												
1984	90,663	90,957	91,136	91,331	91,725	91,751	91,747	91,548	91,622	91,789	91,873	92,180
1985	92,350	92,539	92,860	92,898	92,866	92,928	92,881	93,080	93,481	93,677	93,651	93,810
1986	94,223	94,210	94,358	94,375	94,627	95,110	95,269	95,224	95,338	95,387	95,524	95,698
1987	95,780	95,847	95,933	96,057	96,534	96,364	96,477	96,524	96,553	96,790	96,787	96,941
1988	97,147	97,475	97,308	97,608	97,590	97,613	97,670	98,013	98,030	98,159	98,547	98,542
Civilian labor force, white men, 20 years and over												
1984	52,179	52,219	52,278	52,333	52,349	52,611	52,489	52,449	52,591	52,532	52,583	52,674
1985	52,621	52,630	52,732	52,820	52,845	52,900	52,826	52,931	53,075	53,157	53,136	53,091
1986	53,534	53,479	53,534	53,481	53,535	53,676	53,664	53,635	53,774	53,747	53,977	54,154
1987	54,144	54,114	54,101	54,089	54,310	54,217	54,170	54,192	54,210	54,364	54,362	54,369
1988	54,470	54,627	54,541	54,653	54,722	54,658	54,712	54,864	54,839	54,861	54,922	54,898
Civilian labor force, white women, 20 years and over												
1984	38,484	38,738	38,858	38,998	39,376	39,140	39,258	39,099	39,031	39,257	39,290	39,506
1985	39,729	39,909	40,128	40,078	40,021	40,028	40,055	40,149	40,406	40,520	40,515	40,719
1986	40,689	40,731	40,824	40,894	41,092	41,434	41,605	41,589	41,564	41,640	41,547	41,544
1987	41,636	41,733	41,832	41,968	42,224	42,147	42,307	42,332	42,343	42,426	42,425	42,572
1988	42,677	42,848	42,767	42,955	42,868	42,955	42,958	43,149	43,191	43,298	43,625	43,644
Civilian labor force, black workers												
1984	11,717	11,877	11,847	11,850	11,937	12,013	12,092	12,193	12,100	12,199	12,269	12,288
1985	12,300	12,282	12,280	12,341	12,334	12,339	12,362	12,325	12,403	12,412	12,459	12,548
1986	12,522	12,511	12,643	12,716	12,748	12,795	12,614	12,514	12,672	12,728	12,715	12,683
1987	12,777	12,879	12,852	12,786	12,906	12,956	13,049	13,145	13,034	13,148	13,171	13,181
1988	13,174	13,138	13,100	13,101	13,102	13,066	13,283	13,236	13,201	13,290	13,330	13,405
Civilian labor force, black men												
1984	6,032	6,116	6,088	6,029	6,089	6,095	6,138	6,160	6,145	6,197	6,186	6,221
1985	6,174	6,196	6,158	6,176	6,177	6,171	6,223	6,230	6,288	6,290	6,259	6,309
1986	6,342	6,319	6,384	6,380	6,422	6,431	6,389	6,285	6,371	6,398	6,376	6,401
1987	6,438	6,433	6,436	6,420	6,464	6,453	6,528	6,571	6,496	6,498	6,547	6,541
1988	6,553	6,571	6,534	6,588	6,592	6,564	6,571	6,617	6,597	6,651	6,638	6,656
Civilian labor force, black women												
1984	5,685	5,761	5,759	5,821	5,848	5,918	5,954	6,033	5,955	6,002	6,083	6,067
1985	6,126	6,086	6,122	6,165	6,157	6,168	6,139	6,095	6,115	6,122	6,200	6,239
1986	6,180	6,192	6,259	6,336	6,326	6,364	6,225	6,229	6,301	6,330	6,339	6,282
1987	6,339	6,446	6,416	6,366	6,442	6,503	6,521	6,574	6,538	6,650	6,624	6,640
1988	6,621	6,567	6,586	6,513	6,510	6,502	6,712	6,619	6,604	6,639	6,692	6,749
Civilian labor force, black workers, 16 to 19 years												
1984	769	798	768	819	770	855	861	866	855	859	848	852
1985	896	886	889	897	903	858	933	868	864	904	875	895
1986	896	895	937	944	918	955	844	813	868	871	826	836
1987	861	891	867	865	858	885	860	970	914	950	929	931
1988	875	863	840	838	896	885	917	917	910	899	904	910
Civilian labor force, black men, 16 to 19 years												
1984	407	422	431	439	431	443	444	450	450	449	449	456
1985	476	457	465	474	454	448	496	487	478	486	453	481
1986	462	478	484	482	499	469	453	432	448	439	414	435
1987	465	457	447	451	431	435	448	527	461	469	483	484
1988	460	431	415	437	485	480	491	486	480	494	492	477
Civilian labor force, black women, 16 to 19 years												
1984	362	376	337	380	339	412	417	416	405	409	399	396
1985	420	429	424	423	449	410	437	381	386	418	422	414
1986	434	417	453	462	419	486	391	381	420	432	412	401
1987	396	434	420	414	427	450	412	443	453	481	446	447
1988	415	432	425	401	411	405	426	431	430	405	412	433

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

1. Labor force by sex, age, race, Hispanic origin, and marital status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian labor force, black workers, 20 years and over												
1984	10,948	11,079	11,079	11,031	11,167	11,158	11,231	11,327	11,245	11,340	11,421	11,436
1985	11,404	11,398	11,391	11,444	11,431	11,481	11,429	11,457	11,539	11,508	11,584	11,853
1986	11,626	11,818	11,706	11,772	11,830	11,840	11,770	11,701	11,804	11,857	11,889	11,847
1987	11,916	11,988	11,985	11,921	12,048	12,071	12,189	12,175	12,120	12,198	12,242	12,250
1988	12,299	12,275	12,280	12,283	12,206	12,181	12,368	12,319	12,291	12,391	12,428	12,495
Civilian labor force, black men, 20 years and over												
1984	5,625	5,894	5,657	5,590	5,658	5,652	5,894	5,710	5,695	5,747	5,737	5,765
1985	5,898	5,739	5,893	5,702	5,723	5,723	5,727	5,743	5,810	5,804	5,606	5,828
1986	5,880	5,841	5,900	5,898	5,923	5,962	5,938	5,853	5,823	5,959	5,962	5,966
1987	5,973	5,978	5,989	5,989	6,033	6,018	6,080	6,044	6,035	6,029	6,064	6,057
1988	6,093	6,140	6,119	6,151	6,107	6,084	6,080	6,131	6,117	6,157	6,148	6,179
Civilian labor force, black women, 20 years and over												
1984	5,323	5,385	5,422	5,441	5,509	5,506	5,537	5,617	5,550	5,593	5,684	5,671
1985	5,706	5,657	5,696	5,742	5,708	5,758	5,702	5,714	5,729	5,704	5,778	5,825
1986	5,746	5,775	5,806	5,874	5,907	5,878	5,834	5,848	5,881	5,898	5,927	5,881
1987	5,943	6,012	5,996	5,952	6,015	6,053	6,109	6,131	6,085	6,169	6,178	6,193
1988	6,206	6,135	6,141	6,112	6,099	6,097	6,286	6,188	6,174	6,234	6,280	6,316
Civilian labor force, Hispanic-origin workers												
1984	7,272	7,208	7,348	7,313	7,399	7,464	7,478	7,509	7,550	7,561	7,581	7,701
1985	7,494	7,566	7,622	7,585	7,620	7,651	7,732	7,817	7,866	7,860	7,771	7,782
1986	7,765	7,890	7,932	7,946	8,006	8,084	8,163	8,151	8,202	8,212	8,217	8,326
1987	8,387	8,407	8,406	8,459	8,592	8,452	8,449	8,561	8,575	8,661	8,740	8,770
1988	8,862	8,987	8,818	8,823	8,910	9,009	8,997	8,963	9,061	9,075	9,148	9,133
Civilian labor force, married men, spouse present												
1984	40,643	40,829	40,778	40,900	40,911	40,939	41,053	41,008	41,066	40,933	41,102	41,196
1985	41,219	41,134	41,221	41,124	40,866	40,840	40,893	40,902	40,981	41,010	41,015	40,959
1986	41,298	41,221	41,209	41,316	41,486	41,532	41,500	41,513	41,508	41,574	41,754	41,821
1987	41,816	41,683	41,770	41,787	41,761	41,810	41,876	41,864	41,947	42,081	42,154	42,055
1988	41,902	41,904	41,695	41,788	41,682	41,816	41,798	41,951	41,829	41,806	41,767	41,786
Civilian labor force, married women, spouse present												
1984	26,649	26,843	26,844	27,052	27,300	27,215	27,234	27,337	27,299	27,461	27,465	27,811
1985	27,589	27,590	27,628	27,707	27,615	27,650	27,750	27,809	28,218	28,273	28,325	28,383
1986	28,430	28,168	28,265	28,294	28,466	28,730	28,865	28,822	28,802	28,888	28,878	28,919
1987	29,078	29,136	29,204	29,384	29,630	29,474	29,519	29,422	29,337	29,386	29,461	29,594
1988	29,656	29,825	29,903	29,915	29,806	29,834	29,659	30,008	29,969	30,000	30,133	30,164
Civilian labor force, women who maintain families												
1984	5,950	6,014	6,074	6,107	6,196	6,272	6,247	6,126	6,062	6,007	6,077	5,980
1985	6,179	6,203	6,222	6,284	6,340	6,374	6,294	6,317	6,250	6,085	6,172	6,246
1986	6,297	6,383	6,403	6,424	6,420	6,447	6,469	6,493	6,564	6,537	6,623	6,580
1987	6,583	6,545	6,582	6,609	6,622	6,690	6,678	6,725	6,750	6,745	6,778	6,737
1988	6,746	6,708	6,660	6,657	6,547	6,655	6,741	6,791	6,801	6,885	6,908	6,970

2. Labor force participation rates by sex, age, race, and Hispanic origin

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Labor force participation rate, including resident Armed Forces, total												
1984	64.3	64.4	64.4	64.6	64.9	64.9	64.9	64.7	64.8	64.8	64.8	65.0
1985	65.0	65.0	65.2	65.2	65.1	64.9	65.0	65.0	65.2	65.3	65.2	65.3
1986	65.3	65.3	65.4	65.5	65.6	65.8	65.7	65.6	65.7	65.7	65.7	65.6
1987	65.7	65.8	65.8	65.8	66.1	65.8	65.9	66.0	65.8	66.0	66.0	66.1
1988	66.2	66.2	66.0	66.2	66.1	66.2	66.2	66.3	66.3	66.3	66.4	66.4
Labor force participation rate, including resident Armed Forces, men												
1984	76.6	76.7	76.7	76.7	76.7	77.0	76.9	76.7	76.9	76.7	76.8	76.9
1985	76.7	76.6	76.8	76.8	76.8	76.6	76.6	76.6	76.7	76.8	76.7	76.5
1986	76.7	76.6	76.7	76.7	76.7	76.8	76.7	76.5	76.7	76.6	76.8	76.7
1987	76.8	76.8	76.7	76.6	76.8	76.5	76.4	76.6	76.4	76.6	76.5	76.5
1988	76.6	76.6	76.5	76.7	76.6	76.6	76.5	76.7	76.6	76.5	76.6	76.4
Labor force participation rate, including resident Armed Forces, women												
1984	53.0	53.3	53.3	53.6	54.0	53.8	54.0	53.7	53.6	53.8	53.8	54.0
1985	54.3	54.4	54.7	54.5	54.5	54.2	54.4	54.3	54.7	54.7	54.8	55.0
1986	54.8	54.9	55.1	55.1	55.3	55.6	55.6	55.6	55.6	55.7	55.6	55.4
1987	55.5	55.6	55.8	55.8	56.3	56.0	56.2	56.3	56.1	56.3	56.3	56.4
1988	56.5	56.5	56.3	56.4	56.3	56.5	56.6	56.7	56.7	56.8	57.1	57.2
Civilian labor force participation rate, all civilian workers												
1984	63.9	64.1	64.1	64.3	64.5	64.6	64.6	64.4	64.4	64.4	64.5	64.6
1985	64.7	64.7	64.9	64.9	64.8	64.6	64.7	64.6	64.9	64.9	64.9	64.9
1986	64.9	65.0	65.1	65.1	65.2	65.4	65.4	65.3	65.4	65.4	65.4	65.3
1987	65.4	65.5	65.5	65.5	65.8	65.5	65.6	65.7	65.5	65.7	65.7	65.7
1988	65.8	65.9	65.7	65.9	65.7	65.8	65.9	66.0	66.0	66.0	66.1	66.1
Civilian labor force participation rate, men												
1984	76.1	76.2	76.2	76.2	76.3	76.6	76.4	76.3	76.5	76.3	76.4	76.5
1985	76.3	76.2	76.3	76.4	76.3	76.2	76.2	76.1	76.3	76.4	76.2	76.1
1986	76.2	76.2	76.3	76.3	76.3	76.4	76.3	76.1	76.3	76.1	76.4	76.3
1987	76.4	76.3	76.2	76.2	76.4	76.0	76.0	76.2	76.0	76.1	76.1	76.1
1988	76.2	76.2	76.1	76.3	76.2	76.2	76.1	76.3	76.2	76.1	76.2	76.0
Civilian labor force participation rate, women												
1984	52.9	53.2	53.2	53.5	53.9	53.7	53.9	53.7	53.5	53.7	53.7	53.9
1985	54.2	54.4	54.6	54.4	54.4	54.1	54.3	54.2	54.6	54.6	54.7	54.9
1986	54.7	54.8	55.0	55.1	55.2	55.6	55.5	55.6	55.5	55.6	55.5	55.3
1987	55.4	55.6	55.7	55.8	56.2	55.9	56.1	56.2	56.0	56.2	56.3	56.3
1988	56.4	56.5	56.3	56.4	56.2	56.5	56.5	56.6	56.7	56.7	57.0	57.1
Civilian labor force participation rate, both sexes, 16 to 19 years												
1984	53.2	53.3	53.3	53.9	53.8	55.2	54.8	53.3	54.4	53.9	53.8	54.5
1985	55.0	54.9	55.2	54.8	55.1	52.9	55.4	53.5	54.0	54.5	54.3	54.0
1986	53.4	54.5	55.0	55.6	55.4	55.4	54.6	54.7	54.7	54.9	54.4	53.4
1987	54.2	54.8	54.4	54.5	55.6	53.6	53.8	56.0	54.1	55.1	54.8	55.4
1988	55.9	55.0	54.1	54.5	54.5	56.2	55.9	56.1	56.0	55.2	55.1	55.2
Civilian labor force participation rate, men, 16 to 19 years												
1984	54.6	55.2	56.2	55.8	55.8	57.7	56.3	54.9	56.2	55.8	56.7	57.0
1985	57.5	56.8	57.4	57.8	57.6	56.3	57.9	56.3	56.0	56.8	55.8	55.7
1986	54.5	56.2	56.1	57.4	57.5	57.1	56.7	56.7	57.1	56.4	56.2	54.3
1987	56.2	57.1	55.9	55.9	56.4	54.7	54.2	57.7	55.7	56.3	55.7	57.1
1988	57.5	56.0	55.7	56.2	56.4	58.0	57.6	58.0	57.4	56.9	57.2	56.5
Civilian labor force participation rate, women, 16 to 19 years												
1984	51.7	51.4	50.4	52.0	51.7	52.7	53.3	51.7	52.5	51.9	51.0	51.9
1985	52.6	53.0	53.0	51.7	52.6	49.5	52.9	50.7	52.1	52.3	52.7	52.3
1986	52.2	52.9	53.9	53.9	53.3	53.7	52.5	52.6	52.4	53.4	52.5	52.4
1987	52.2	52.4	52.9	53.1	54.7	52.5	53.4	54.3	52.6	53.9	53.9	53.7
1988	54.2	54.0	52.4	52.9	52.6	54.3	54.1	54.1	54.6	53.5	53.0	53.9

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

2. Labor force participation rates by sex, age, race, and Hispanic origin—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian labor force participation rate, both sexes, 20 years and over												
1984	64.9	65.1	65.1	65.2	65.5	65.4	65.5	65.4	65.3	65.4	65.4	65.5
1985	65.5	65.6	65.8	65.8	65.6	65.6	65.5	65.6	65.9	65.9	65.8	65.9
1986	66.0	65.9	66.0	66.0	66.1	66.3	66.3	66.2	66.3	66.3	66.4	66.4
1987	66.3	66.4	66.4	66.4	66.7	66.5	66.6	66.6	66.5	66.6	66.6	66.6
1988	66.7	66.8	66.7	66.8	66.7	66.7	66.7	66.9	66.8	66.9	67.1	67.0
Civilian labor force participation rate, men, 20 years and over												
1984	78.3	78.3	78.2	78.3	78.3	78.4	78.4	78.3	78.4	78.3	78.3	78.3
1985	78.1	78.0	78.1	78.2	78.1	78.1	77.9	78.0	78.2	78.2	78.1	78.0
1986	78.3	78.1	78.2	78.0	78.0	78.2	78.1	77.9	78.1	78.0	78.2	78.3
1987	78.2	78.1	78.1	78.1	78.2	78.0	78.0	77.9	77.9	78.0	78.0	77.8
1988	77.9	78.1	77.9	78.1	78.0	77.8	77.8	78.0	77.9	77.8	77.8	77.8
Civilian labor force participation rate, women, 20 years and over												
1984	53.0	53.3	53.4	53.6	54.1	53.8	54.0	53.8	53.6	53.9	53.9	54.1
1985	54.3	54.5	54.8	54.7	54.5	54.5	54.4	54.5	54.8	54.8	54.9	55.1
1986	54.9	55.0	55.1	55.2	55.4	55.7	55.8	55.8	55.8	55.8	55.7	55.6
1987	55.7	55.8	55.9	56.0	56.3	56.2	56.3	56.4	56.3	56.4	56.4	56.5
1988	56.6	56.7	56.6	56.6	56.5	56.6	56.7	56.8	56.8	57.0	57.4	57.3
Civilian labor force participation rate, both sexes, 20 to 24 years												
1984	77.0	76.9	77.2	77.5	77.6	78.2	77.8	77.0	77.6	77.7	78.1	77.9
1985	78.2	78.0	77.9	78.0	78.0	77.9	77.7	77.8	78.6	78.8	78.7	79.0
1986	78.5	79.2	79.1	78.5	78.5	78.9	78.9	78.6	79.4	78.8	79.2	79.5
1987	79.7	79.5	79.3	79.0	79.0	78.9	79.0	79.1	78.8	78.3	78.6	78.0
1988	79.4	79.2	78.9	78.8	78.1	78.7	78.5	78.8	78.6	78.7	78.2	78.5
Civilian labor force participation rate, men, 20 to 24 years												
1984	84.6	84.4	84.9	85.4	84.5	86.4	84.8	84.5	85.4	84.7	85.3	84.9
1985	85.1	84.7	84.5	84.7	85.0	85.0	84.2	84.7	85.4	85.3	85.8	85.6
1986	85.8	86.5	86.6	85.4	84.6	85.4	85.6	85.0	86.3	85.8	86.3	86.9
1987	86.1	86.4	85.6	85.4	85.2	85.2	85.3	85.4	85.1	84.5	84.8	83.7
1988	85.3	85.2	85.2	85.2	84.9	84.8	84.6	85.4	85.3	85.1	84.7	84.6
Civilian labor force participation rate, women, 20 to 24 years												
1984	69.7	69.8	69.9	69.9	71.0	70.4	71.2	69.8	70.1	71.0	71.2	71.2
1985	71.7	71.6	71.6	71.8	71.4	71.3	71.6	71.4	72.2	72.8	72.2	72.8
1986	71.6	72.3	72.0	72.1	72.7	72.7	72.5	72.6	73.0	72.3	72.6	72.6
1987	73.7	72.9	73.4	72.9	73.2	72.9	73.0	73.2	73.0	72.5	72.9	72.7
1988	73.8	73.6	72.9	72.8	71.6	72.9	72.8	72.6	72.5	72.6	72.1	72.8
Civilian labor force participation rate, both sexes, 25 years and over												
1984	63.1	63.4	63.3	63.4	63.7	63.5	63.7	63.7	63.5	63.6	63.6	63.7
1985	63.8	63.8	64.1	64.0	63.8	63.9	63.8	63.9	64.1	64.0	64.1	64.1
1986	64.3	64.1	64.3	64.3	64.3	64.6	64.7	64.6	64.6	64.6	64.7	64.6
1987	64.6	64.7	64.8	64.8	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.2
1988	65.2	65.3	65.2	65.3	65.2	65.2	65.3	65.5	65.4	65.4	65.7	65.7
Civilian labor force participation rate, men, 25 years and over												
1984	77.3	77.4	77.2	77.2	77.2	77.2	77.4	77.4	77.4	77.3	77.2	77.3
1985	77.1	77.1	77.3	77.3	77.0	77.0	77.0	77.1	77.2	77.1	77.1	76.9
1986	77.2	76.9	77.0	77.0	77.0	77.1	77.0	77.0	77.0	76.8	77.1	77.2
1987	77.2	77.1	77.2	77.1	77.2	77.1	77.0	77.0	77.0	77.1	77.1	77.1
1988	77.0	77.2	77.0	77.2	77.1	77.0	77.0	77.2	77.0	76.9	77.0	76.9
Civilian labor force participation rate, women, 25 years and over												
1984	50.6	51.0	51.1	51.3	51.7	51.5	51.6	51.5	51.3	51.5	51.5	51.7
1985	52.0	52.1	52.4	52.3	52.2	52.3	52.1	52.2	52.5	52.4	52.5	52.7
1986	52.7	52.7	52.9	52.9	53.1	53.5	53.6	53.6	53.6	53.7	53.6	53.4
1987	53.5	53.7	53.7	53.8	54.1	54.1	54.3	54.3	54.3	54.4	54.4	54.6
1988	54.6	54.6	54.6	54.7	54.7	54.7	54.8	55.0	55.0	55.2	55.6	55.6

2. Labor force participation rates by sex, age, race, and Hispanic origin—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian labor force participation rate, both sexes, 25 to 54 years												
1984	80.1	80.3	80.4	80.6	80.8	80.8	81.0	81.0	80.7	80.9	80.8	81.0
1985	81.3	81.2	81.4	81.5	81.2	81.3	81.3	81.4	81.8	81.6	81.6	81.7
1986	81.8	81.6	81.7	81.8	81.8	82.1	82.1	82.1	82.3	82.3	82.2	82.3
1987	82.2	82.4	82.4	82.5	82.6	82.5	82.6	82.6	82.6	82.6	82.6	82.7
1988	82.7	82.7	82.7	82.8	82.8	82.7	82.9	83.0	82.9	82.9	83.2	83.2
Civilian labor force participation rate, men, 25 to 54 years												
1984	93.7	93.8	93.8	93.8	93.7	93.9	94.1	94.1	93.9	94.0	93.9	94.0
1985	94.0	93.9	93.9	94.1	93.8	93.8	93.9	93.9	94.1	94.0	93.9	93.8
1986	93.9	93.8	93.8	93.7	93.6	93.9	93.9	93.8	93.9	93.7	93.9	93.9
1987	94.0	93.8	93.8	93.7	93.7	93.6	93.7	93.6	93.6	93.7	93.5	93.6
1988	93.5	93.7	93.6	93.8	93.6	93.4	93.6	93.6	93.5	93.5	93.6	93.5
Civilian labor force participation rate, women, 25 to 54 years												
1984	67.2	67.5	67.8	68.1	68.6	68.3	68.6	68.7	68.2	68.5	68.3	68.7
1985	69.2	69.2	69.6	69.6	69.3	69.5	69.4	69.6	70.1	69.8	70.0	70.3
1986	70.2	70.1	70.3	70.4	70.5	70.9	70.9	71.0	71.2	71.4	71.2	71.3
1987	71.0	71.5	71.5	71.7	72.0	71.8	72.1	72.1	72.1	72.1	72.1	72.3
1988	72.3	72.3	72.3	72.3	72.5	72.5	72.7	72.9	72.7	72.8	73.2	73.3
Civilian labor force participation rate, both sexes, 25 to 34 years												
1984	81.4	81.5	81.5	81.6	81.7	81.8	82.1	82.3	81.8	82.1	81.8	81.9
1985	82.3	82.3	82.4	82.6	82.2	82.3	82.4	82.3	83.2	82.7	82.6	82.8
1986	82.6	82.5	82.8	82.8	82.7	83.0	82.9	82.9	83.1	83.0	83.4	83.1
1987	82.9	83.1	83.1	83.3	83.3	83.3	83.5	83.5	83.3	83.3	83.4	83.5
1988	83.4	83.4	83.3	83.3	83.3	83.2	83.3	83.3	83.2	83.2	83.4	83.6
Civilian labor force participation rate, men, 25 to 34 years												
1984	94.1	94.0	94.0	94.1	94.0	94.2	94.7	94.7	94.4	94.6	94.3	94.4
1985	94.7	94.7	94.5	94.9	94.6	94.5	94.7	94.6	95.0	94.7	94.6	94.6
1986	94.8	94.6	94.7	94.5	94.3	94.7	94.6	94.5	94.7	94.2	94.8	94.7
1987	94.7	94.5	94.5	94.5	94.7	94.7	94.7	94.5	94.3	94.5	94.5	94.5
1988	94.5	94.4	94.3	94.4	94.1	93.9	94.3	94.2	94.3	94.4	94.4	94.3
Civilian labor force participation rate, women, 25 to 34 years												
1984	69.1	69.4	69.4	69.6	69.9	70.0	70.1	70.3	69.7	70.0	69.7	69.9
1985	70.5	70.5	70.8	70.8	70.3	70.6	70.7	70.5	72.0	71.1	71.1	71.5
1986	70.8	70.8	71.3	71.5	71.5	71.7	71.7	71.7	72.0	72.2	72.3	71.9
1987	71.6	72.0	72.1	72.5	72.3	72.2	72.7	72.8	72.6	72.4	72.8	72.9
1988	72.6	72.7	72.7	72.6	72.9	72.9	72.6	72.7	72.4	72.4	72.8	73.3
Civilian labor force participation rate, both sexes, 35 to 44 years												
1984	81.7	82.3	82.2	82.4	82.9	82.5	82.5	82.4	82.4	82.5	82.4	82.8
1985	82.9	82.7	83.0	83.0	83.0	83.2	83.1	83.2	83.0	83.3	83.4	83.3
1986	83.3	83.3	83.3	83.4	83.5	83.7	83.9	84.1	84.0	84.1	83.6	84.0
1987	84.3	84.5	84.3	84.2	84.5	84.1	84.3	84.3	84.4	84.4	84.1	84.2
1988	84.3	84.4	84.5	84.5	84.5	84.5	84.8	84.9	84.6	84.7	84.9	84.8
Civilian labor force participation rate, men, 35 to 44 years												
1984	95.4	95.8	95.6	95.6	95.7	95.6	95.3	95.0	95.2	95.1	95.0	95.2
1985	95.3	94.9	95.1	95.2	95.1	95.1	95.1	95.0	94.9	95.0	94.8	94.7
1986	94.9	94.7	94.7	94.7	94.6	94.9	94.9	94.8	94.8	94.9	94.7	94.8
1987	95.3	95.1	94.8	94.5	94.4	94.3	94.6	94.5	94.6	94.5	94.2	94.2
1988	94.1	94.4	94.4	94.6	94.7	94.5	94.7	94.8	94.5	94.4	94.4	94.3
Civilian labor force participation rate, women, 35 to 44 years												
1984	68.7	69.5	69.6	69.9	70.8	70.1	70.4	70.5	70.3	70.5	70.4	71.0
1985	71.2	71.0	71.5	71.4	71.4	72.0	71.7	72.0	71.7	72.2	72.5	72.5
1986	72.3	72.4	72.5	72.7	73.0	73.1	73.4	73.8	73.7	73.8	73.1	73.7
1987	73.8	74.3	74.3	74.4	75.0	74.5	74.6	74.6	74.6	74.8	74.4	74.6
1988	74.8	74.7	74.9	74.8	74.7	74.9	75.3	75.5	75.2	75.5	75.9	75.6

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

2. Labor force participation rates by sex, age, race, and Hispanic origin—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian labor force participation rate, both sexes, 45 to 54 years												
1984	75.9	75.7	76.2	76.4	76.5	76.6	76.8	77.0	76.6	76.6	76.9	76.9
1985	77.1	77.3	77.6	77.7	77.1	76.9	76.9	77.4	77.4	77.2	77.3	77.6
1986	78.1	77.7	77.7	77.7	77.7	78.2	78.2	78.0	78.2	78.5	78.2	78.3
1987	78.0	78.1	78.2	78.3	78.7	78.7	78.5	78.6	78.7	78.8	78.8	79.1
1988	79.2	79.3	79.2	79.5	79.4	79.3	79.6	79.8	79.7	79.8	80.2	80.1
Civilian labor force participation rate, men, 45 to 54 years												
1984	90.7	90.7	90.9	90.9	90.7	91.2	91.2	91.7	91.2	91.2	91.8	91.6
1985	91.0	91.1	91.2	91.1	90.5	90.7	90.9	91.2	91.2	91.3	91.2	91.1
1986	91.0	90.8	90.8	90.9	91.0	91.0	91.1	91.1	91.2	91.0	90.9	90.9
1987	90.7	90.5	90.9	90.9	90.9	90.7	90.6	90.7	90.8	90.8	90.7	90.8
1988	90.9	91.2	91.1	91.4	91.0	90.8	90.7	90.8	90.6	90.4	90.9	90.8
Civilian labor force participation rate, women, 45 to 54 years												
1984	62.1	61.6	62.4	62.9	63.3	63.0	63.4	63.3	62.9	63.1	63.1	63.3
1985	64.0	64.4	64.8	65.1	64.5	64.0	63.7	64.5	64.4	64.0	64.3	64.9
1986	66.0	65.4	65.4	65.4	65.3	66.1	66.1	65.8	66.1	66.8	66.3	66.5
1987	66.2	66.4	66.4	66.5	67.2	67.4	67.2	67.3	67.4	67.6	67.7	68.1
1988	68.3	68.1	67.9	68.2	68.5	68.4	69.2	69.5	69.5	69.7	70.0	69.9
Civilian labor force participation rate, both sexes, 55 years and over												
1984	31.0	31.0	30.8	30.9	30.8	30.6	30.6	30.6	30.7	30.4	30.4	30.5
1985	30.4	30.4	30.8	30.5	30.4	30.4	30.2	30.3	30.2	30.2	30.1	30.0
1986	30.3	29.9	30.0	30.0	30.1	30.4	30.4	30.3	30.0	29.9	30.0	29.8
1987	30.0	29.7	29.9	29.8	30.1	30.1	30.0	30.0	30.0	30.2	30.2	30.2
1988	30.1	30.1	29.9	30.2	29.9	29.9	29.8	30.0	30.0	30.0	30.2	30.2
Civilian labor force participation rate, men, 55 years and over												
1984	42.5	42.2	41.8	41.8	41.8	41.5	41.7	41.8	42.0	41.4	41.3	41.4
1985	41.1	41.0	41.6	41.2	40.8	41.1	40.9	41.1	41.1	41.1	40.8	40.6
1986	41.0	40.3	40.5	40.6	40.6	40.6	40.4	40.1	40.1	40.1	40.3	40.6
1987	40.3	40.1	40.5	40.3	40.7	40.4	40.3	40.1	40.2	40.4	40.6	40.4
1988	40.1	40.2	39.9	40.0	39.9	40.0	39.9	40.0	39.7	39.6	39.4	39.6
Civilian labor force participation rate, women, 55 years and over												
1984	22.2	22.4	22.3	22.4	22.4	22.3	22.1	22.0	22.1	22.0	22.1	22.2
1985	22.1	22.1	22.4	22.2	22.3	22.0	21.9	22.0	21.7	21.8	21.7	21.8
1986	21.9	21.8	21.9	21.8	22.0	22.5	22.7	22.7	22.2	21.9	21.9	21.4
1987	21.9	21.6	21.7	21.6	21.8	22.0	22.0	22.2	22.0	22.3	22.1	22.3
1988	22.2	22.3	22.1	22.4	22.0	22.0	21.9	22.1	22.5	22.5	23.0	22.9
Civilian labor force participation rate, both sexes, 55 to 64 years												
1984	54.2	54.4	54.2	54.5	54.3	54.4	54.3	54.2	54.3	54.0	53.7	54.4
1985	54.1	54.0	54.6	54.3	54.2	54.3	54.2	54.3	54.0	54.1	53.9	53.7
1986	53.8	53.3	53.6	53.7	54.0	54.6	54.7	54.6	54.1	54.1	54.2	53.8
1987	54.3	53.8	54.1	54.2	54.6	54.5	54.3	54.0	54.4	54.8	54.9	54.7
1988	54.6	54.6	54.4	54.7	54.3	54.2	54.3	54.6	54.7	54.7	54.7	55.0
Civilian labor force participation rate, men, 55 to 64 years												
1984	68.9	68.7	68.4	68.6	68.2	68.3	68.5	68.8	68.8	68.1	68.2	68.8
1985	68.0	67.8	68.3	68.2	67.6	68.5	68.3	68.1	67.9	67.9	67.6	67.0
1986	67.1	66.2	66.8	67.1	67.4	67.5	67.4	67.2	67.4	67.7	67.6	67.9
1987	67.8	67.4	67.9	67.7	68.1	67.7	67.6	66.6	67.4	67.6	67.8	67.5
1988	67.5	67.6	67.1	67.4	67.1	66.8	67.0	67.1	66.9	66.6	66.3	66.6
Civilian labor force participation rate, women, 55 to 64 years												
1984	41.3	41.9	41.8	42.1	42.2	42.2	41.9	41.4	41.6	41.1	41.6	41.8
1985	41.8	41.9	42.6	42.0	42.4	41.8	41.7	42.1	41.7	41.8	41.7	41.8
1986	41.9	41.8	41.9	41.8	42.1	43.2	43.4	43.4	42.3	42.1	42.2	41.4
1987	42.3	41.8	41.9	42.2	42.6	42.9	42.5	42.9	42.8	43.4	43.3	43.4
1988	43.1	43.1	43.0	43.4	42.8	42.9	43.0	43.4	43.9	44.0	44.3	44.6

2. Labor force participation rates by sex, age, race, and Hispanic origin—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian labor force participation rate, both sexes, 65 years and over												
1984	11.5	11.4	11.1	11.1	11.1	10.8	10.9	11.0	11.2	11.2	10.9	10.9
1985	10.8	10.9	11.0	10.9	10.7	10.6	10.5	10.6	10.7	10.8	10.7	10.9
1986	11.2	11.0	10.9	11.0	11.0	11.1	11.1	11.0	10.9	10.6	10.8	10.8
1987	10.8	10.7	10.9	10.7	11.0	11.1	11.3	11.5	11.2	11.3	11.2	11.4
1988	11.4	11.5	11.4	11.5	11.4	11.5	11.3	11.3	11.4	11.5	11.9	11.7
Civilian labor force participation rate, men, 65 years and over												
1984	17.1	16.8	16.4	16.2	16.4	16.0	16.1	16.1	16.6	16.2	15.8	15.6
1985	15.7	15.8	16.3	15.8	15.6	15.5	15.2	15.7	16.0	16.0	15.8	16.0
1986	16.8	16.3	16.3	16.2	16.1	16.1	15.9	15.8	15.5	15.2	15.7	16.0
1987	15.7	15.7	16.1	16.0	16.4	16.4	16.3	16.9	16.3	16.5	16.7	16.6
1988	16.3	16.5	16.3	16.4	16.5	16.9	16.7	16.6	16.4	16.5	16.5	16.7
Civilian labor force participation rate, women, 65 years and over												
1984	7.7	7.6	7.5	7.6	7.5	7.3	7.3	7.5	7.5	7.7	7.6	7.6
1985	7.4	7.4	7.4	7.5	7.3	7.3	7.3	7.1	7.0	7.2	7.1	7.3
1986	7.3	7.2	7.2	7.3	7.5	7.6	7.7	7.7	7.7	7.4	7.3	7.2
1987	7.3	7.3	7.3	7.0	7.2	7.4	7.7	7.7	7.5	7.5	7.4	7.6
1988	7.9	7.9	7.9	8.1	7.8	7.7	7.4	7.6	7.8	7.9	8.6	8.2
Civilian labor force participation rate, white workers												
1984	64.3	64.4	64.5	64.6	64.8	64.9	64.8	64.5	64.6	64.7	64.6	64.9
1985	64.9	65.0	65.1	65.0	65.0	64.9	64.9	64.8	65.1	65.2	65.1	65.2
1986	65.2	65.2	65.3	65.3	65.4	65.7	65.6	65.6	65.6	65.7	65.7	65.6
1987	65.7	65.7	65.7	65.7	66.1	65.7	65.8	65.9	65.7	65.9	65.6	66.0
1988	66.1	66.2	66.0	66.2	66.1	66.2	66.1	66.3	66.3	66.3	66.5	66.4
Civilian labor force participation rate, white men												
1984	76.9	76.9	77.0	77.0	77.0	77.5	77.1	76.9	77.2	77.0	77.1	77.2
1985	77.0	76.9	77.0	77.1	77.1	77.0	76.9	76.8	77.0	77.1	76.9	76.8
1986	76.9	76.9	76.9	76.9	76.9	77.0	76.9	76.8	77.0	76.9	77.1	77.1
1987	77.1	77.0	76.9	76.8	77.1	76.7	76.6	76.8	76.6	76.9	76.7	76.6
1988	76.9	76.9	76.8	76.9	76.9	76.9	76.8	77.0	76.9	76.8	76.9	76.8
Civilian labor force participation rate, white women												
1984	52.6	53.0	53.0	53.3	53.7	53.5	53.6	53.2	53.2	53.3	53.3	53.6
1985	53.8	54.1	54.3	54.0	54.0	53.7	53.9	53.9	54.3	54.4	54.4	54.8
1986	54.4	54.6	54.7	54.7	54.9	55.2	55.3	55.4	55.2	55.4	55.2	55.1
1987	55.2	55.2	55.4	55.5	55.9	55.6	55.8	55.9	55.7	55.9	55.8	56.0
1988	56.1	56.3	56.0	56.3	56.1	56.4	56.3	56.5	56.5	58.5	56.8	56.9
Civilian labor force participation rate, white workers, 16 to 19 years												
1984	56.9	57.1	57.4	57.3	57.4	58.7	57.7	55.8	57.4	57.0	56.6	57.8
1985	56.0	56.1	58.5	57.6	58.0	56.2	57.9	56.2	57.2	57.8	57.4	57.2
1986	56.3	57.7	58.0	58.2	58.2	58.2	57.3	57.9	58.0	58.4	58.0	57.0
1987	57.5	57.9	57.9	57.6	59.1	56.7	56.8	58.5	57.0	58.0	57.5	58.5
1988	59.2	58.3	57.7	58.1	57.6	59.8	58.9	59.2	59.4	58.5	58.3	58.6
Civilian labor force participation rate, white men, 16 to 19 years												
1984	58.2	58.5	59.7	58.7	59.1	61.1	59.1	56.9	59.0	59.0	59.2	60.0
1985	60.3	59.7	60.5	60.7	60.9	59.8	60.6	58.5	58.6	60.1	58.6	58.6
1986	57.5	58.9	58.8	59.8	59.9	60.0	59.2	59.5	60.3	60.0	59.6	57.8
1987	59.0	60.1	59.4	58.7	59.9	57.6	57.0	59.5	58.6	59.5	58.1	60.2
1988	60.7	59.1	59.9	59.5	59.0	60.8	60.3	60.6	60.5	59.9	59.9	60.3
Civilian labor force participation rate, white women, 16 to 19 years												
1984	55.5	55.6	55.1	56.0	55.7	56.3	56.2	54.7	55.8	55.0	54.0	55.2
1985	55.7	56.6	56.4	54.5	55.0	52.6	55.1	53.8	55.7	55.5	56.2	55.7
1986	55.1	56.6	57.2	56.7	56.6	56.4	55.3	56.3	55.6	56.9	56.4	56.2
1987	55.9	55.6	56.3	56.5	58.2	55.7	56.5	57.5	55.5	56.5	56.9	56.8
1988	57.7	57.5	55.5	56.7	56.3	58.9	57.4	57.7	58.2	57.2	56.6	56.9

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

2. Labor force participation rates by sex, age, race, and Hispanic origin—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian labor force participation rate, white workers, 20 years and over												
1984	65.0	65.1	65.1	65.3	65.5	65.5	65.4	65.2	65.3	65.3	65.3	65.5
1985	65.4	65.5	65.7	65.7	65.6	65.6	65.5	65.6	65.8	65.9	65.8	65.8
1986	65.9	65.9	65.9	65.9	66.0	66.3	66.3	66.3	66.3	66.3	66.3	66.4
1987	66.3	66.3	66.3	66.4	66.6	66.5	66.5	66.5	66.5	66.6	66.5	66.6
1988	66.6	66.8	66.7	66.8	66.8	66.7	66.7	66.9	66.9	66.9	67.1	67.0
Civilian labor force participation rate, white men, 20 years and over												
1984	78.7	78.7	78.6	78.7	78.6	79.0	78.8	78.7	78.9	78.7	78.7	78.8
1985	78.5	78.4	78.5	78.6	78.5	78.5	78.4	78.5	78.6	78.6	78.5	78.4
1986	78.6	78.5	78.5	78.4	78.4	78.5	78.4	78.3	78.4	78.3	78.6	78.8
1987	78.6	78.5	78.4	78.4	78.6	78.4	78.3	78.3	78.2	78.4	78.3	78.2
1988	78.3	78.4	78.3	78.4	78.4	78.2	78.2	78.4	78.3	78.3	78.3	78.2
Civilian labor force participation rate, white women, 20 years and over												
1984	52.5	52.8	52.9	53.1	53.6	53.2	53.4	53.1	52.9	53.2	53.2	53.5
1985	53.7	53.9	54.1	54.0	53.9	53.8	53.8	53.9	54.2	54.3	54.2	54.5
1986	54.4	54.4	54.5	54.5	54.8	55.2	55.3	55.3	55.2	55.3	55.1	55.1
1987	55.1	55.2	55.3	55.4	55.7	55.6	55.8	55.8	55.7	55.8	55.8	55.9
1988	56.0	56.2	56.1	56.3	56.1	56.2	56.2	56.4	56.4	56.5	56.9	56.9
Civilian labor force participation rate, black workers												
1984	61.0	61.8	61.5	61.5	61.8	62.1	62.5	62.9	62.3	62.7	63.0	63.0
1985	63.0	62.8	62.8	63.0	62.9	62.8	62.8	62.6	62.9	62.8	63.0	63.3
1986	63.1	63.0	63.6	63.8	63.9	64.1	63.1	62.5	63.2	63.4	63.2	62.9
1987	63.3	63.7	63.5	63.1	63.5	63.7	64.1	64.4	63.8	64.3	64.3	64.3
1988	64.1	63.9	63.6	63.5	63.4	63.2	64.1	63.8	63.6	63.9	64.1	64.3
Civilian labor force participation rate, black men												
1984	70.3	71.1	70.7	70.0	70.5	70.5	70.9	71.0	70.8	71.2	71.0	71.2
1985	70.8	70.9	70.4	70.5	70.4	70.3	70.8	70.7	71.3	71.2	70.7	71.2
1986	71.4	71.0	71.7	71.5	71.9	71.8	71.3	70.0	70.9	71.1	70.7	70.9
1987	71.1	71.0	70.9	70.6	70.9	70.7	71.4	71.8	70.9	70.8	71.3	71.1
1988	71.1	71.2	70.7	71.2	71.1	70.7	70.6	71.1	70.8	71.3	71.0	71.1
Civilian labor force participation rate, black women												
1984	53.6	54.2	54.1	54.6	54.8	55.4	55.6	56.3	55.5	55.8	56.5	56.3
1985	56.8	56.3	56.6	56.9	56.7	56.8	56.4	55.9	56.1	56.0	56.7	56.9
1986	56.4	56.5	57.0	57.6	57.5	57.7	56.4	56.4	56.9	57.1	57.1	56.5
1987	56.9	57.8	57.4	56.9	57.5	58.0	58.1	58.5	58.0	59.0	58.7	58.7
1988	58.5	57.9	57.8	57.3	57.2	57.1	58.8	57.9	57.7	58.0	58.4	58.8
Civilian labor force participation rate, black workers, 16 to 19 years												
1984	35.1	36.5	35.2	37.7	35.5	39.6	39.9	40.3	39.8	40.1	39.7	39.9
1985	41.2	40.8	41.0	41.4	41.8	39.7	43.3	40.3	40.1	42.0	40.7	41.7
1986	41.9	41.9	43.9	44.2	43.0	44.8	39.8	38.1	40.6	40.7	38.5	39.0
1987	40.1	41.5	40.2	40.1	39.7	40.9	39.7	44.7	42.1	43.7	42.7	42.9
1988	40.3	39.7	38.6	38.5	41.1	40.6	42.0	42.0	41.7	41.2	41.5	41.7
Civilian labor force participation rate, black men, 16 to 19 years												
1984	38.0	39.5	40.5	41.4	40.7	42.0	42.2	42.9	42.9	43.1	43.0	43.7
1985	44.7	43.0	43.8	44.7	42.9	42.3	46.9	46.1	45.2	46.0	42.9	45.6
1986	44.0	45.6	46.2	45.9	47.6	44.8	43.3	41.2	42.6	41.7	39.2	41.3
1987	44.2	43.3	42.2	42.5	40.5	40.8	41.9	49.3	43.1	43.8	45.1	45.4
1988	43.1	40.3	38.6	40.7	45.1	44.6	45.5	45.1	44.6	45.9	45.7	44.3
Civilian labor force participation rate, black women, 16 to 19 years												
1984	32.3	33.6	30.2	34.1	30.6	37.3	37.8	37.8	36.9	37.3	36.5	36.3
1985	37.8	38.7	38.3	38.3	40.7	37.2	39.8	34.7	35.2	38.2	38.6	37.9
1986	39.8	38.3	41.6	42.5	38.6	44.8	36.1	35.1	38.6	39.7	37.8	36.8
1987	36.3	39.7	38.4	37.8	38.9	40.9	37.5	40.2	41.1	43.6	40.5	40.6
1988	37.6	39.1	38.5	36.3	37.2	36.7	38.5	39.0	38.9	36.7	37.3	39.3

2. Labor force participation rates by sex, age, race, and Hispanic origin—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian labor force participation rate, black workers, 20 years and over												
1984	64.4	65.0	64.9	64.5	65.2	65.0	65.3	65.7	65.1	65.5	65.8	65.8
1985	65.8	65.6	65.5	65.7	65.5	65.7	65.2	65.3	65.7	65.3	65.7	65.9
1986	65.7	65.5	65.9	66.2	66.4	66.4	65.9	65.4	65.9	66.1	66.1	65.8
1987	66.0	66.3	66.2	65.8	66.4	66.4	67.0	66.8	66.4	66.7	66.9	66.8
1988	67.0	66.7	66.6	66.5	66.1	65.8	66.7	66.4	66.2	66.6	66.7	67.0
Civilian labor force participation rate, black men, 20 years and over												
1984	74.9	75.6	75.0	74.0	74.7	74.5	74.9	74.9	74.6	75.1	74.8	75.0
1985	74.4	74.8	74.1	74.1	74.2	74.1	74.0	74.1	74.9	74.6	74.5	74.6
1986	75.0	74.4	75.0	74.9	75.1	75.4	75.0	73.8	74.6	75.0	74.9	74.8
1987	74.7	74.6	74.7	74.3	75.0	74.7	75.3	74.8	74.6	74.4	74.7	74.5
1988	74.8	75.2	74.9	75.2	74.5	74.1	73.9	74.5	74.2	74.6	74.3	74.6
Civilian labor force participation rate, black women, 20 years and over												
1984	56.1	56.6	56.9	57.0	57.6	57.5	57.7	58.4	57.6	57.9	58.8	58.5
1985	58.9	58.3	58.7	59.0	58.6	59.0	58.3	58.3	58.4	58.0	58.7	59.1
1986	58.3	58.5	58.7	59.3	59.5	59.1	58.6	58.7	58.9	59.0	59.2	58.6
1987	59.2	59.8	59.5	59.0	59.5	59.8	60.3	60.4	59.9	60.6	60.6	60.7
1988	60.7	59.9	59.9	59.6	59.4	59.3	61.0	60.0	59.8	60.2	60.6	60.9
Civilian labor force participation rate, Hispanic-origin workers												
1984	64.5	63.7	64.7	64.2	64.8	65.1	65.0	65.1	65.3	65.1	65.1	65.9
1985	64.0	64.4	64.7	64.1	64.2	64.3	64.8	65.3	65.5	65.3	64.4	64.3
1986	63.9	64.8	64.9	64.9	65.1	65.6	66.0	65.7	66.0	65.9	65.7	66.4
1987	66.3	66.2	66.0	66.2	67.1	65.8	65.6	66.2	66.1	66.6	67.0	67.0
1988	67.6	68.3	66.8	66.7	67.2	67.7	67.4	67.0	67.5	67.4	67.8	67.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

3. Employed persons by sex, age, race, Hispanic origin, and marital status

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Total employed, including resident Armed Forces, total												
1984	104,887	105,508	105,653	106,029	106,883	107,281	107,133	106,875	107,210	107,343	107,671	107,921
1985	107,982	106,251	106,881	106,821	106,890	106,294	106,517	106,837	109,373	109,493	109,883	109,887
1986	110,570	110,166	110,540	110,636	110,857	111,337	111,496	111,713	111,774	111,951	112,176	112,406
1987	112,717	113,011	113,195	113,524	114,250	114,005	114,333	114,755	114,639	114,968	115,215	115,490
1988	115,604	116,009	115,665	116,392	116,117	116,666	116,707	116,695	117,074	117,260	117,652	117,705
Total employed, including resident Armed Forces, men												
1984	59,765	60,062	60,163	60,246	60,548	61,007	60,763	60,764	60,979	61,022	61,182	61,212
1985	61,115	61,107	61,332	61,370	61,505	61,250	61,307	61,513	61,696	61,695	61,759	61,759
1986	62,369	62,092	62,223	62,252	62,206	62,361	62,362	62,466	62,530	62,565	62,636	62,686
1987	63,176	63,264	63,306	63,390	63,613	63,507	63,659	63,853	63,934	64,054	64,169	64,261
1988	64,420	64,567	64,417	64,666	64,672	64,694	64,941	64,931	65,015	64,976	65,074	65,055
Total employed, including resident Armed Forces, women												
1984	45,122	45,446	45,490	45,783	46,335	46,274	46,370	46,111	46,231	46,321	46,489	46,709
1985	46,867	47,144	47,349	47,251	47,185	47,044	47,210	47,324	47,677	47,798	47,923	48,108
1986	46,161	46,076	46,317	46,388	46,649	46,956	49,118	49,247	49,244	49,368	49,340	49,420
1987	49,539	49,747	49,689	50,134	50,637	50,498	50,674	50,902	50,705	50,912	51,046	51,209
1988	51,364	51,422	51,446	51,526	51,445	51,792	51,766	51,964	52,059	52,264	52,578	52,650
Employed, all civilian workers												
1984	103,201	103,824	103,967	104,336	105,193	105,591	105,435	105,163	105,490	105,638	105,972	106,223
1985	106,265	106,546	106,980	106,919	106,985	106,592	106,813	107,111	107,641	107,793	107,981	108,169
1986	106,879	106,477	106,847	106,943	109,170	109,657	109,626	110,016	110,056	110,202	110,425	110,656
1987	110,989	111,271	111,459	111,789	112,524	112,287	112,813	113,019	112,898	113,225	113,460	113,740
1988	114,055	114,273	114,129	114,660	114,403	115,001	115,034	115,203	115,370	115,573	115,947	116,009
Employed men												
1984	58,223	58,522	58,621	58,698	59,003	59,462	59,212	59,201	59,408	59,465	59,630	59,662
1985	59,566	59,553	59,779	59,617	59,949	59,698	59,753	59,939	60,116	60,144	60,207	60,210
1986	60,650	60,553	60,663	60,711	60,875	60,856	60,684	60,925	60,970	60,975	61,244	61,393
1987	61,567	61,860	61,731	61,815	62,047	61,948	62,098	62,276	62,353	62,474	62,576	62,692
1988	62,832	63,010	62,844	63,297	63,119	63,371	63,429	63,402	63,475	63,450	63,532	63,521
Employed women												
1984	44,978	45,302	45,346	45,638	46,190	46,129	46,223	45,962	46,082	46,173	46,342	46,561
1985	46,719	46,995	47,201	47,102	47,036	46,894	47,060	47,172	47,525	47,649	47,774	47,959
1986	46,029	47,924	46,164	46,232	46,495	46,801	46,962	49,091	49,088	49,227	49,181	49,263
1987	49,382	49,591	49,726	49,974	50,477	50,339	50,515	50,741	50,543	50,751	50,884	51,046
1988	51,223	51,263	51,285	51,363	51,264	51,630	51,605	51,801	51,895	52,123	52,415	52,466
Employed both sexes, 16 to 19 years												
1984	6,414	6,415	6,358	6,451	6,461	6,651	6,535	6,348	6,428	6,403	6,454	6,438
1985	6,528	6,545	6,568	6,567	6,509	6,247	6,396	6,361	6,411	6,314	6,416	6,330
1986	6,313	6,400	6,522	6,516	6,524	6,480	6,453	6,503	6,471	6,566	6,468	6,408
1987	6,462	6,532	6,518	6,589	6,682	6,553	6,620	6,698	6,641	6,688	6,684	6,798
1988	6,846	6,778	6,601	6,707	6,707	7,016	6,895	6,872	6,856	6,781	6,835	6,795
Employed men, 16 to 19 years												
1984	3,248	3,309	3,340	3,325	3,342	3,466	3,291	3,271	3,313	3,282	3,356	3,349
1985	3,393	3,341	3,421	3,446	3,399	3,321	3,311	3,289	3,284	3,224	3,255	3,252
1986	3,226	3,276	3,305	3,349	3,359	3,320	3,340	3,336	3,359	3,369	3,341	3,246
1987	3,340	3,366	3,323	3,317	3,319	3,336	3,355	3,466	3,403	3,436	3,392	3,472
1988	3,517	3,449	3,376	3,464	3,463	3,591	3,532	3,563	3,496	3,446	3,533	3,472
Employed women, 16 to 19 years												
1984	3,166	3,106	3,018	3,126	3,119	3,185	3,244	3,077	3,115	3,121	3,098	3,089
1985	3,135	3,204	3,167	3,121	3,110	2,926	3,085	3,072	3,127	3,090	3,161	3,076
1986	3,087	3,124	3,217	3,167	3,165	3,160	3,113	3,167	3,112	3,197	3,127	3,162
1987	3,152	3,148	3,195	3,252	3,363	3,217	3,265	3,412	3,236	3,250	3,292	3,326
1988	3,329	3,329	3,225	3,243	3,244	3,425	3,363	3,309	3,360	3,335	3,302	3,323

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

3. Employed persons by sex, age, race, Hispanic origin, and marital status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Employed both sexes, 20 years and over												
1984	96,787	97,409	97,609	97,885	98,732	98,940	98,900	98,815	99,062	99,235	99,518	99,785
1985	99,757	100,003	100,392	100,352	100,476	100,345	100,417	100,750	101,230	101,479	101,565	101,839
1986	102,566	102,077	102,325	102,427	102,646	103,177	103,373	103,513	103,587	103,636	103,957	104,248
1987	104,477	104,739	104,941	105,220	105,842	105,734	105,993	106,121	106,255	106,537	106,776	106,942
1988	107,209	107,495	107,528	107,953	107,696	107,985	108,139	108,331	108,514	108,792	109,112	109,214
Employed men, 20 years and over												
1984	54,975	55,213	55,281	55,373	55,661	55,996	55,921	55,930	56,095	56,183	56,274	56,313
1985	56,173	56,212	56,358	56,371	56,550	56,377	56,442	56,650	56,832	56,920	56,952	56,958
1986	57,624	57,277	57,378	57,362	57,316	57,536	57,524	57,589	57,611	57,606	57,903	58,147
1987	58,247	58,294	58,408	58,498	58,728	58,612	58,743	58,792	58,950	59,036	59,184	59,220
1988	59,315	59,561	59,468	59,833	59,656	59,780	59,897	59,839	59,979	60,004	59,999	60,049
Employed women, 20 years and over												
1984	41,812	42,196	42,328	42,512	43,071	42,944	42,979	42,885	42,967	43,052	43,244	43,472
1985	43,584	43,791	44,034	43,981	43,926	43,968	43,975	44,100	44,398	44,559	44,613	44,881
1986	44,942	44,800	44,947	45,065	45,330	45,641	45,849	45,924	45,976	46,030	46,054	46,101
1987	46,230	46,445	46,533	46,722	47,114	47,122	47,250	47,329	47,305	47,501	47,592	47,722
1988	47,894	47,934	48,060	48,120	48,040	48,205	48,242	48,492	48,535	48,788	49,113	49,165
Employed both sexes, 20 to 24 years												
1984	14,002	14,115	14,150	14,127	14,305	14,465	14,319	14,026	14,178	14,231	14,315	14,240
1985	14,134	14,050	13,994	14,051	13,994	13,953	13,911	13,884	13,979	13,967	13,904	13,986
1986	13,933	13,984	13,940	13,809	13,721	13,813	13,791	13,716	13,694	13,678	13,775	13,668
1987	13,696	13,663	13,657	13,585	13,595	13,463	13,529	13,544	13,462	13,413	13,393	13,328
1988	13,441	13,438	13,347	13,322	13,157	13,322	13,242	13,251	13,194	13,149	13,042	13,057
Employed men, 20 to 24 years												
1984	7,454	7,526	7,567	7,562	7,621	7,758	7,594	7,473	7,545	7,576	7,622	7,545
1985	7,424	7,369	7,322	7,378	7,361	7,333	7,278	7,316	7,349	7,296	7,322	7,344
1986	7,393	7,423	7,369	7,231	7,160	7,244	7,243	7,192	7,150	7,224	7,210	7,198
1987	7,167	7,164	7,147	7,120	7,095	6,997	7,068	7,067	7,039	6,983	6,967	6,922
1988	6,949	6,993	6,988	6,974	6,922	6,959	6,909	6,912	6,905	6,857	6,846	6,816
Employed women, 20 to 24 years												
1984	6,548	6,589	6,583	6,565	6,684	6,707	6,725	6,553	6,633	6,655	6,693	6,695
1985	6,710	6,681	6,672	6,673	6,633	6,620	6,633	6,568	6,630	6,671	6,582	6,642
1986	6,540	6,561	6,571	6,578	6,561	6,569	6,548	6,524	6,544	6,454	6,565	6,470
1987	6,529	6,499	6,510	6,465	6,500	6,466	6,461	6,477	6,423	6,430	6,426	6,406
1988	6,492	6,445	6,359	6,348	6,235	6,363	6,333	6,339	6,289	6,292	6,196	6,241
Employed both sexes, 25 years and over												
1984	82,777	83,309	83,517	83,771	84,386	84,467	84,621	84,762	84,869	84,986	85,208	85,514
1985	85,625	85,971	86,458	86,302	86,428	86,388	86,567	86,854	87,243	87,484	87,668	87,830
1986	88,632	88,114	88,448	88,607	88,865	89,358	89,645	89,809	89,890	89,928	90,186	90,556
1987	90,783	91,094	91,328	91,611	92,169	92,282	92,535	92,614	92,798	93,093	93,377	93,595
1988	93,759	94,055	94,198	94,591	94,450	94,683	94,979	95,145	95,332	95,619	96,062	96,151
Employed men, 25 years and over												
1984	47,511	47,707	47,765	47,829	48,017	48,203	48,321	48,458	48,540	48,588	48,670	48,754
1985	48,743	48,866	49,085	48,993	49,162	49,010	49,174	49,350	49,471	49,602	49,648	49,606
1986	50,223	49,876	50,063	50,120	50,132	50,260	50,290	50,427	50,450	50,366	50,711	50,943
1987	51,070	51,149	51,301	51,356	51,606	51,601	51,691	51,770	51,902	52,039	52,223	52,289
1988	52,346	52,569	52,504	52,831	52,709	52,818	53,016	52,983	53,072	53,136	53,152	53,227
Employed women, 25 years and over												
1984	35,266	35,602	35,752	35,942	36,369	36,264	36,300	36,304	36,329	36,398	36,538	36,760
1985	36,882	37,105	37,373	37,309	37,266	37,378	37,393	37,504	37,772	37,882	38,020	38,224
1986	38,409	38,238	38,385	38,487	38,733	39,098	39,355	39,382	39,440	39,562	39,475	39,613
1987	39,713	39,945	40,027	40,255	40,563	40,681	40,844	40,844	40,896	41,054	41,154	41,306
1988	41,413	41,486	41,694	41,760	41,741	41,865	41,963	42,162	42,260	42,483	42,910	42,924

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

3. Employed persons by sex, age, race, Hispanic origin, and marital status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Employed both sexes, 25 to 54 years												
1984	68,557	68,933	69,246	69,533	70,045	70,339	70,381	70,638	70,627	70,874	71,015	71,268
1985	71,426	71,618	71,920	71,996	72,078	72,150	72,365	72,639	73,010	73,155	73,377	73,627
1986	74,315	73,949	74,177	74,349	74,434	74,871	75,133	75,421	75,621	75,739	75,846	76,273
1987	76,364	76,695	76,881	77,264	77,654	77,735	77,992	78,154	78,346	78,475	78,731	78,939
1988	79,188	79,366	79,583	79,898	79,953	80,111	80,456	80,608	80,697	80,950	81,242	81,399
Employed men, 25 to 54 years												
1984	39,039	39,207	39,369	39,447	39,587	39,880	39,921	40,077	40,125	40,243	40,317	40,388
1985	40,328	40,413	40,508	40,537	40,718	40,598	40,795	40,875	41,001	41,125	41,178	41,230
1986	41,713	41,528	41,638	41,687	41,630	41,852	41,882	42,084	42,122	42,059	42,278	42,491
1987	42,578	42,666	42,753	42,862	43,018	43,067	43,187	43,290	43,402	43,480	43,613	43,714
1988	43,851	43,983	43,999	44,278	44,202	44,287	44,509	44,471	44,577	44,669	44,712	44,779
Employed women, 25 to 54 years												
1984	29,518	29,726	29,877	30,086	30,458	30,459	30,460	30,561	30,502	30,631	30,698	30,880
1985	31,098	31,205	31,412	31,459	31,360	31,552	31,570	31,764	32,009	32,030	32,199	32,397
1986	32,602	32,421	32,539	32,662	32,804	33,019	33,251	33,337	33,499	33,680	33,568	33,782
1987	33,786	34,029	34,128	34,402	34,636	34,668	34,805	34,864	34,944	34,995	35,118	35,225
1988	35,337	35,383	35,584	35,620	35,751	35,824	35,947	36,137	36,120	36,281	36,530	36,620
Employed both sexes, 25 to 34 years												
1984	29,673	29,804	29,883	30,050	30,267	30,460	30,486	30,681	30,657	30,759	30,679	30,766
1985	30,824	30,873	31,008	30,996	31,006	31,111	31,252	31,245	31,572	31,490	31,483	31,641
1986	32,065	31,790	31,960	32,000	31,985	32,238	32,209	32,354	32,416	32,335	32,530	32,558
1987	32,541	32,745	32,849	32,979	33,030	33,137	33,268	33,309	33,280	33,332	33,426	33,369
1988	33,466	33,525	33,458	33,545	33,516	33,472	33,622	33,565	33,567	33,613	33,693	33,859
Employed men, 25 to 34 years												
1984	16,778	16,827	16,930	16,997	17,067	17,198	17,243	17,378	17,402	17,434	17,361	17,372
1985	17,379	17,404	17,443	17,467	17,535	17,522	17,608	17,603	17,653	17,714	17,706	17,743
1986	18,156	18,001	18,060	18,018	17,931	18,101	18,027	18,188	18,144	18,018	18,223	18,258
1987	18,241	18,317	18,367	18,412	18,496	18,511	18,564	18,566	18,563	18,583	18,634	18,599
1988	18,671	18,684	18,595	18,693	18,605	18,597	18,776	18,680	18,753	18,791	18,752	18,837
Employed women, 25 to 34 years												
1984	12,895	12,977	12,953	13,053	13,200	13,262	13,243	13,303	13,255	13,325	13,318	13,394
1985	13,445	13,469	13,565	13,529	13,471	13,589	13,644	13,642	13,919	13,776	13,777	13,898
1986	13,909	13,789	13,900	13,982	14,054	14,137	14,182	14,166	14,272	14,317	14,307	14,300
1987	14,300	14,428	14,482	14,567	14,534	14,626	14,704	14,743	14,717	14,749	14,792	14,770
1988	14,795	14,841	14,863	14,852	14,911	14,875	14,846	14,885	14,814	14,822	14,941	15,022
Employed both sexes, 35 to 44 years												
1984	22,899	23,163	23,258	23,323	23,627	23,612	23,671	23,648	23,776	23,891	24,047	24,228
1985	24,218	24,278	24,418	24,497	24,583	24,608	24,696	24,829	24,902	25,139	25,255	25,317
1986	25,391	25,345	25,439	25,536	25,662	25,747	25,959	26,104	26,174	26,243	26,179	26,511
1987	26,660	26,805	26,798	26,964	27,169	27,143	27,239	27,322	27,386	27,461	27,541	27,633
1988	27,699	27,763	27,915	28,061	28,075	28,235	28,322	28,435	28,529	28,638	28,768	28,753
Employed men, 35 to 44 years												
1984	13,023	13,130	13,169	13,164	13,263	13,299	13,316	13,276	13,384	13,458	13,555	13,657
1985	13,593	13,608	13,658	13,686	13,774	13,694	13,789	13,867	13,919	13,987	14,001	14,002
1986	14,045	14,010	14,093	14,166	14,186	14,205	14,304	14,328	14,394	14,419	14,445	14,578
1987	14,689	14,747	14,731	14,769	14,800	14,858	14,898	14,966	15,017	15,042	15,093	15,152
1988	15,172	15,233	15,265	15,360	15,397	15,476	15,510	15,543	15,585	15,625	15,655	15,651
Employed women, 35 to 44 years												
1984	9,876	10,033	10,089	10,159	10,364	10,313	10,355	10,372	10,392	10,433	10,492	10,571
1985	10,625	10,670	10,760	10,811	10,809	10,914	10,907	10,962	10,983	11,152	11,254	11,315
1986	11,346	11,335	11,346	11,370	11,476	11,542	11,655	11,776	11,780	11,824	11,734	11,933
1987	11,971	12,058	12,067	12,195	12,369	12,285	12,341	12,356	12,369	12,419	12,448	12,481
1988	12,527	12,530	12,650	12,701	12,678	12,759	12,812	12,892	12,944	13,013	13,113	13,102

3. Employed persons by sex, age, race, Hispanic origin, and marital status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Employed both sexes, 45 to 54 years												
1984	15,985	15,966	16,105	16,160	16,151	16,267	16,224	16,309	16,194	16,224	16,289	16,274
1985	16,384	16,467	16,494	16,503	16,489	16,431	16,417	16,565	16,536	16,526	16,639	16,669
1986	16,859	16,814	16,778	16,813	16,787	16,886	16,965	16,963	17,031	17,161	17,137	17,204
1987	17,163	17,145	17,234	17,321	17,455	17,455	17,485	17,523	17,680	17,682	17,764	17,937
1988	18,023	18,078	18,210	18,292	18,362	18,404	18,512	18,608	18,601	18,699	18,781	18,787
Employed men, 45 to 54 years												
1984	9,238	9,250	9,270	9,286	9,257	9,383	9,362	9,423	9,339	9,351	9,401	9,359
1985	9,356	9,401	9,407	9,384	9,409	9,382	9,398	9,405	9,429	9,424	9,471	9,485
1986	9,512	9,517	9,485	9,503	9,513	9,546	9,551	9,568	9,584	9,622	9,610	9,655
1987	9,648	9,602	9,655	9,681	9,722	9,698	9,725	9,758	9,822	9,855	9,886	9,963
1988	10,008	10,066	10,139	10,225	10,200	10,214	10,223	10,248	10,239	10,253	10,305	10,291
Employed women, 45 to 54 years												
1984	6,747	6,716	6,835	6,874	6,894	6,884	6,862	6,886	6,855	6,873	6,888	6,915
1985	7,028	7,066	7,087	7,119	7,080	7,049	7,019	7,160	7,107	7,102	7,168	7,184
1986	7,347	7,297	7,293	7,310	7,274	7,340	7,414	7,395	7,447	7,539	7,527	7,549
1987	7,515	7,543	7,579	7,640	7,733	7,757	7,760	7,765	7,858	7,827	7,878	7,974
1988	8,015	8,012	8,071	8,067	8,162	8,190	8,289	8,360	8,362	8,446	8,476	8,496
Employed both sexes, 55 years and over												
1984	14,253	14,315	14,228	14,276	14,251	14,156	14,208	14,189	14,299	14,118	14,178	14,272
1985	14,229	14,292	14,485	14,328	14,271	14,242	14,168	14,282	14,276	14,337	14,272	14,251
1986	14,334	14,119	14,216	14,261	14,381	14,486	14,486	14,455	14,320	14,209	14,311	14,314
1987	14,434	14,347	14,409	14,340	14,500	14,546	14,538	14,523	14,496	14,635	14,616	14,678
1988	14,579	14,643	14,580	14,673	14,499	14,556	14,514	14,583	14,664	14,690	14,790	14,771
Employed men, 55 years and over												
1984	8,474	8,461	8,377	8,388	8,375	8,363	8,383	8,398	8,456	8,366	8,341	8,384
1985	8,408	8,419	8,556	8,460	8,394	8,435	8,361	8,485	8,494	8,495	8,455	8,414
1986	8,509	8,326	8,401	8,427	8,462	8,428	8,407	8,349	8,350	8,328	8,420	8,485
1987	8,492	8,463	8,535	8,479	8,564	8,549	8,519	8,487	8,514	8,576	8,601	8,602
1988	8,495	8,563	8,492	8,532	8,490	8,529	8,524	8,514	8,502	8,482	8,436	8,470
Employed women, 55 years and over												
1984	5,779	5,854	5,851	5,888	5,876	5,793	5,825	5,791	5,843	5,752	5,837	5,888
1985	5,821	5,873	5,929	5,868	5,877	5,807	5,807	5,797	5,782	5,842	5,817	5,837
1986	5,825	5,793	5,815	5,834	5,919	6,058	6,079	6,106	5,970	5,881	5,891	5,829
1987	5,942	5,884	5,874	5,861	5,936	5,997	6,019	6,036	5,982	6,059	6,015	6,076
1988	6,084	6,080	6,088	6,141	6,009	6,027	5,990	6,069	6,162	6,208	6,354	6,301
Employed both sexes, 55 to 64 years												
1984	11,340	11,428	11,394	11,459	11,436	11,398	11,410	11,377	11,419	11,246	11,357	11,452
1985	11,444	11,467	11,617	11,499	11,473	11,471	11,433	11,501	11,443	11,490	11,453	11,382
1986	11,378	11,231	11,329	11,334	11,445	11,534	11,521	11,522	11,400	11,369	11,404	11,380
1987	11,495	11,431	11,431	11,410	11,486	11,474	11,445	11,383	11,432	11,530	11,524	11,527
1988	11,443	11,464	11,413	11,463	11,347	11,361	11,390	11,425	11,473	11,470	11,451	11,481
Employed men, 55 to 64 years												
1984	6,705	6,707	6,668	6,706	6,685	6,683	6,688	6,712	6,713	6,657	6,673	6,733
1985	6,748	6,734	6,822	6,766	6,717	6,781	6,747	6,783	6,753	6,765	6,743	6,678
1986	6,680	6,554	6,627	6,648	6,701	6,671	6,654	6,637	6,644	6,656	6,678	6,697
1987	6,722	6,709	6,735	6,678	6,709	6,669	6,668	6,587	6,654	6,685	6,695	6,682
1988	6,630	6,661	6,609	6,633	6,592	6,582	6,604	6,595	6,589	6,568	6,511	6,527
Employed women, 55 to 64 years												
1984	4,635	4,721	4,726	4,753	4,751	4,715	4,722	4,665	4,706	4,589	4,684	4,719
1985	4,696	4,733	4,795	4,733	4,756	4,690	4,686	4,718	4,690	4,725	4,710	4,704
1986	4,698	4,677	4,702	4,686	4,744	4,863	4,867	4,885	4,756	4,713	4,726	4,683
1987	4,773	4,722	4,696	4,732	4,777	4,805	4,777	4,796	4,778	4,845	4,829	4,845
1988	4,813	4,803	4,804	4,830	4,755	4,779	4,786	4,830	4,884	4,902	4,940	4,954

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

3. Employed persons by sex, age, race, Hispanic origin, and marital status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Employed both sexes, 65 years and over												
1984	2,913	2,887	2,834	2,817	2,815	2,758	2,798	2,812	2,880	2,872	2,821	2,820
1985	2,785	2,825	2,868	2,829	2,798	2,771	2,735	2,781	2,833	2,847	2,819	2,869
1986	2,956	2,888	2,887	2,927	2,936	2,952	2,965	2,933	2,920	2,840	2,907	2,934
1987	2,939	2,916	2,978	2,930	3,014	3,072	3,093	3,140	3,064	3,105	3,092	3,151
1988	3,136	3,179	3,167	3,210	3,152	3,195	3,124	3,158	3,191	3,220	3,339	3,290
Employed men, 65 years and over												
1984	1,769	1,754	1,709	1,682	1,690	1,680	1,695	1,686	1,743	1,709	1,668	1,651
1985	1,660	1,685	1,734	1,694	1,677	1,654	1,614	1,702	1,741	1,730	1,712	1,736
1986	1,829	1,772	1,774	1,779	1,761	1,757	1,753	1,712	1,706	1,672	1,742	1,788
1987	1,770	1,754	1,800	1,801	1,855	1,880	1,851	1,900	1,860	1,891	1,906	1,920
1988	1,865	1,902	1,883	1,899	1,898	1,947	1,920	1,919	1,913	1,914	1,925	1,943
Employed women, 65 years and over												
1984	1,144	1,133	1,125	1,135	1,125	1,078	1,103	1,126	1,137	1,163	1,153	1,169
1985	1,125	1,140	1,134	1,135	1,121	1,117	1,121	1,079	1,092	1,117	1,107	1,133
1986	1,127	1,116	1,113	1,148	1,175	1,195	1,212	1,221	1,214	1,168	1,165	1,146
1987	1,169	1,162	1,178	1,129	1,159	1,192	1,242	1,240	1,204	1,214	1,186	1,231
1988	1,271	1,277	1,284	1,311	1,254	1,248	1,204	1,239	1,278	1,306	1,414	1,347
Employed white workers												
1984	90,979	91,363	91,622	91,781	92,379	92,693	92,521	91,988	92,278	92,413	92,585	92,850
1985	92,993	93,357	93,639	93,492	93,613	93,151	93,422	93,567	94,156	94,370	94,533	94,555
1986	95,124	94,713	94,993	95,065	95,245	95,701	95,873	96,127	96,080	96,182	96,307	96,547
1987	96,730	96,913	97,057	97,272	98,008	97,647	97,938	98,194	98,120	98,354	98,440	98,787
1988	99,011	99,350	99,252	99,663	99,508	99,902	99,761	99,907	100,058	100,199	100,543	100,567
Employed white men												
1984	51,868	52,055	52,227	52,239	52,428	52,884	52,608	52,438	52,643	52,652	52,713	52,788
1985	52,769	52,786	52,977	52,984	53,165	52,846	52,901	52,988	53,227	53,309	53,334	53,290
1986	53,804	53,527	53,586	53,608	53,588	53,735	53,715	53,872	53,880	53,867	54,069	54,191
1987	54,295	54,357	54,358	54,370	54,718	54,518	54,615	54,764	54,806	54,898	54,945	55,119
1988	55,187	55,443	55,303	55,531	55,480	55,633	55,647	55,602	55,660	55,656	55,730	55,724
Employed white women												
1984	39,111	39,308	39,395	39,542	39,951	39,809	39,913	39,550	39,635	39,761	39,872	40,052
1985	40,224	40,571	40,662	40,508	40,448	40,305	40,521	40,579	40,929	41,061	41,199	41,265
1986	41,320	41,186	41,407	41,457	41,657	41,966	42,158	42,255	42,200	42,315	42,238	42,356
1987	42,435	42,556	42,699	42,902	43,290	43,129	43,323	43,430	43,314	43,456	43,495	43,668
1988	43,824	43,907	43,949	44,132	44,028	44,269	44,114	44,305	44,398	44,543	44,813	44,843
Employed white workers, 16 to 19 years												
1984	5,881	5,867	5,845	5,861	5,871	5,993	5,918	5,643	5,794	5,791	5,788	5,812
1985	5,855	5,896	5,910	5,844	5,807	5,615	5,742	5,629	5,772	5,700	5,771	5,696
1986	5,675	5,754	5,858	5,804	5,820	5,786	5,754	5,812	5,814	5,889	5,790	5,756
1987	5,817	5,847	5,851	5,873	5,984	5,817	5,888	6,014	5,859	5,925	5,880	6,028
1988	6,062	6,060	5,897	5,952	5,941	6,226	6,080	6,042	6,066	6,004	6,030	6,001
Employed white men, 16 to 19 years												
1984	2,956	3,022	3,041	3,003	3,026	3,121	2,974	2,897	2,973	2,984	2,995	3,025
1985	3,039	2,984	3,059	3,076	3,045	2,993	2,987	2,901	2,956	2,920	2,941	2,921
1986	2,910	2,927	2,959	2,973	2,976	2,962	2,981	2,969	3,020	3,033	2,978	2,911
1987	2,961	3,018	2,981	2,957	2,987	2,951	2,983	3,040	3,009	3,052	2,968	3,073
1988	3,107	3,095	3,037	3,053	3,037	3,158	3,090	3,115	3,081	3,044	3,106	3,088
Employed white women, 16 to 19 years												
1984	2,925	2,845	2,804	2,858	2,845	2,872	2,944	2,746	2,821	2,807	2,793	2,787
1985	2,816	2,912	2,851	2,768	2,762	2,622	2,755	2,728	2,816	2,780	2,830	2,775
1986	2,765	2,827	2,899	2,831	2,844	2,824	2,773	2,843	2,794	2,856	2,812	2,845
1987	2,856	2,829	2,870	2,916	2,997	2,866	2,905	2,974	2,850	2,873	2,912	2,955
1988	2,955	2,965	2,860	2,899	2,904	3,068	2,990	2,927	2,985	2,960	2,924	2,913

3. Employed persons by sex, age, race, Hispanic origin, and marital status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Employed white workers, 20 years and over												
1984	85,098	85,496	85,777	85,920	86,508	86,700	86,603	86,345	86,484	86,622	86,797	87,038
1985	87,138	87,461	87,729	87,848	87,808	87,536	87,680	87,936	88,364	88,670	88,762	88,859
1986	89,449	88,959	89,135	89,261	89,425	89,915	90,119	90,315	90,266	90,293	90,517	90,791
1987	90,913	91,066	91,206	91,399	92,024	91,830	92,050	92,180	92,261	92,429	92,560	92,759
1988	92,949	93,290	93,355	93,711	93,567	93,676	93,681	93,665	93,992	94,195	94,513	94,566
Employed white men, 20 years and over												
1984	48,912	49,033	49,186	49,236	49,402	49,783	48,634	49,541	49,670	49,668	49,718	49,773
1985	49,730	49,802	49,918	49,908	50,120	49,853	49,914	50,087	50,271	50,389	50,393	50,389
1986	50,894	50,600	50,627	50,835	50,612	50,773	50,734	50,903	50,660	50,834	51,091	51,260
1987	51,334	51,339	51,377	51,413	51,731	51,567	51,632	51,724	51,797	51,846	51,977	52,046
1988	52,080	52,346	52,266	52,478	52,443	52,475	52,557	52,487	52,579	52,612	52,824	52,636
Employed white women, 20 years and over												
1984	36,186	36,463	36,591	36,684	37,106	36,937	36,969	36,804	36,814	36,954	37,079	37,265
1985	37,406	37,659	37,811	37,740	37,666	37,663	37,768	37,651	38,113	38,281	38,369	38,490
1986	38,555	38,359	38,508	38,628	38,813	39,142	39,385	39,412	39,406	39,459	39,426	39,511
1987	39,579	39,727	39,829	39,966	40,293	40,283	40,416	40,456	40,464	40,583	40,583	40,713
1988	40,669	40,942	41,089	41,233	41,124	41,201	41,124	41,378	41,413	41,583	41,889	41,930
Employed black workers												
1984	9,694	9,958	9,884	9,891	10,066	10,142	10,071	10,238	10,268	10,328	10,433	10,417
1985	10,433	10,339	10,425	10,482	10,481	10,559	10,485	10,568	10,523	10,550	10,513	10,856
1986	10,700	10,697	10,805	10,852	10,905	10,862	10,812	10,659	10,782	10,864	10,882	10,933
1987	10,987	11,090	11,102	11,149	11,172	11,281	11,382	11,499	11,397	11,526	11,552	11,560
1988	11,570	11,504	11,481	11,534	11,514	11,543	11,761	11,733	11,758	11,807	11,831	11,856
Employed black men												
1984	4,985	5,107	5,033	4,978	5,116	5,066	5,057	5,158	5,195	5,239	5,281	5,242
1985	5,218	5,209	5,211	5,228	5,248	5,276	5,272	5,364	5,321	5,297	5,264	5,330
1986	5,391	5,383	5,435	5,435	5,489	5,456	5,433	5,332	5,379	5,424	5,451	5,528
1987	5,537	5,573	5,599	5,601	5,575	5,629	5,692	5,740	5,723	5,743	5,763	5,748
1988	5,771	5,728	5,702	5,825	5,793	5,809	5,833	5,869	5,890	5,898	5,879	5,896
Employed black women												
1984	4,709	4,851	4,851	4,913	4,950	5,056	5,014	5,082	5,093	5,089	5,152	5,175
1985	5,215	5,130	5,214	5,254	5,213	5,293	5,213	5,204	5,202	5,253	5,249	5,326
1986	5,309	5,314	5,370	5,417	5,416	5,406	5,379	5,327	5,403	5,440	5,431	5,407
1987	5,430	5,517	5,503	5,548	5,597	5,652	5,690	5,759	5,674	5,783	5,789	5,812
1988	5,799	5,776	5,759	5,709	5,721	5,734	5,926	5,864	5,868	5,909	5,952	5,960
Employed black workers, 16 to 19 years												
1984	409	455	422	460	434	525	498	493	490	503	493	497
1985	529	514	536	556	549	514	547	547	520	532	508	519
1986	530	550	549	558	560	564	512	475	522	553	527	526
1987	529	561	554	549	542	573	573	678	630	621	612	615
1988	576	545	539	580	592	614	626	623	620	621	623	641
Employed black men, 16 to 19 years												
1984	222	227	243	250	253	269	258	258	266	252	261	257
1985	268	270	281	292	281	259	284	307	280	286	243	283
1986	273	295	281	288	303	281	265	259	271	271	266	275
1987	297	290	289	280	265	294	300	351	314	318	326	318
1988	301	259	258	315	324	329	338	330	327	332	334	335
Employed black women, 16 to 19 years												
1984	187	228	179	210	181	256	240	235	224	251	232	240
1985	261	244	255	264	266	255	263	240	240	246	265	236
1986	257	255	268	270	257	283	247	216	251	282	261	251
1987	232	271	265	269	277	279	273	327	316	303	286	297
1988	275	266	281	265	268	285	286	293	293	289	289	306

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

3. Employed persons by sex, age, race, Hispanic origin, and marital status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Employed black workers, 20 years and over												
1984	9,285	9,503	9,462	9,431	9,632	9,617	9,573	9,745	9,798	9,825	9,940	9,920
1985	9,904	9,825	9,889	9,926	9,912	10,045	9,938	10,021	10,003	10,018	10,005	10,137
1986	10,170	10,147	10,256	10,294	10,345	10,298	10,300	10,184	10,260	10,311	10,355	10,407
1987	10,438	10,529	10,548	10,600	10,630	10,708	10,809	10,821	10,767	10,905	10,940	10,945
1988	10,994	10,959	10,922	10,954	10,922	10,929	11,135	11,110	11,138	11,186	11,208	11,215
Employed black men, 20 years and over												
1984	4,763	4,880	4,790	4,728	4,863	4,817	4,799	4,898	4,929	4,987	5,020	4,985
1985	4,950	4,939	4,930	4,936	4,967	5,017	4,988	5,057	5,041	5,011	5,021	5,047
1986	5,118	5,088	5,154	5,147	5,186	5,175	5,188	5,073	5,108	5,153	5,185	5,251
1987	5,240	5,283	5,310	5,321	5,310	5,335	5,392	5,389	5,409	5,425	5,437	5,430
1988	5,470	5,469	5,444	5,510	5,469	5,480	5,495	5,539	5,563	5,566	5,545	5,561
Employed black women, 20 years and over												
1984	4,522	4,623	4,672	4,703	4,769	4,800	4,774	4,847	4,869	4,838	4,920	4,935
1985	4,954	4,886	4,959	4,990	4,945	5,028	4,950	4,964	4,962	5,007	4,984	5,090
1986	5,052	5,059	5,102	5,147	5,159	5,123	5,132	5,111	5,152	5,158	5,170	5,156
1987	5,198	5,246	5,238	5,279	5,320	5,373	5,417	5,432	5,358	5,480	5,503	5,515
1988	5,524	5,490	5,478	5,444	5,453	5,449	5,640	5,571	5,575	5,620	5,663	5,654
Employed Hispanic-origin workers												
1984	6,443	6,461	6,500	6,463	6,613	6,692	6,698	6,705	6,756	6,747	6,809	6,902
1985	6,697	6,833	6,824	6,797	6,818	6,836	6,866	7,006	7,051	6,989	6,944	6,970
1986	6,973	6,958	7,091	7,126	7,143	7,228	7,285	7,255	7,295	7,357	7,447	7,450
1987	7,506	7,598	7,638	7,698	7,855	7,737	7,757	7,872	7,862	7,934	7,963	8,045
1988	8,199	8,241	8,088	8,030	8,128	8,222	8,265	8,214	8,378	8,368	8,419	8,441
Employed married men, spouse present												
1984	38,630	38,853	38,844	38,964	39,032	39,096	39,207	39,135	39,171	39,084	39,291	39,361
1985	39,362	39,331	39,479	39,354	39,240	38,982	39,121	39,158	39,163	39,309	39,280	39,201
1986	39,539	39,397	39,376	39,543	39,627	39,668	39,653	39,746	39,696	39,703	39,923	40,008
1987	40,078	39,963	40,067	40,033	40,100	40,127	40,258	40,301	40,388	40,530	40,688	40,616
1988	40,438	40,488	40,486	40,494	40,317	40,493	40,518	40,511	40,513	40,504	40,407	40,483
Employed married women, spouse present												
1984	25,067	25,268	25,300	25,484	25,735	25,669	25,660	25,733	25,734	25,864	25,978	26,087
1985	26,018	26,135	26,222	26,087	26,037	26,010	26,184	26,303	26,596	26,748	26,791	26,875
1986	27,006	26,654	28,706	26,792	26,914	27,191	27,353	27,359	27,334	27,442	27,465	27,549
1987	27,721	27,765	27,893	28,072	28,370	28,250	28,294	28,184	28,109	28,160	28,226	28,299
1988	28,435	28,620	28,713	28,772	28,632	28,678	28,669	28,809	28,836	28,890	28,995	29,053
Employed women who maintain families												
1984	5,304	5,371	5,416	5,465	5,585	5,665	5,624	5,508	5,471	5,381	5,417	5,376
1985	5,550	5,529	5,586	5,601	5,664	5,757	5,635	5,642	5,555	5,445	5,547	5,640
1986	5,673	5,732	5,758	5,812	5,780	5,810	5,859	5,835	5,917	5,956	5,968	5,926
1987	5,947	5,918	5,942	5,995	5,994	6,051	6,059	6,111	6,153	6,144	6,195	6,181
1988	6,153	6,151	6,158	6,091	6,000	6,130	6,170	6,280	6,253	6,344	6,375	6,399

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

4. Employed civilians in agriculture and nonagricultural industries by selected characteristics

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Employed in agricultural industries												
1984	3,293	3,353	3,233	3,291	3,343	3,383	3,344	3,286	3,393	3,194	3,394	3,385
1985	3,319	3,318	3,253	3,298	3,278	3,158	3,144	3,124	3,063	3,054	3,062	3,146
1986	3,287	3,084	3,203	3,145	3,157	3,194	3,142	3,091	3,169	3,129	3,212	3,149
1987	3,146	3,205	3,221	3,223	3,344	3,222	3,236	3,129	3,192	3,227	3,140	3,212
1988	3,256	3,200	3,181	3,187	3,110	3,121	3,060	3,142	3,176	3,238	3,238	3,193
Employed in agricultural industries, both sexes, 16 to 19 years												
1984	311	320	313	296	309	302	315	293	326	274	361	312
1985	322	338	340	345	326	303	305	299	297	252	273	275
1986	258	231	260	276	268	275	248	266	247	244	244	246
1987	257	267	266	268	259	261	264	251	233	267	231	282
1988	315	283	282	275	268	264	259	260	289	283	285	255
Employed in agricultural industries, men, 16 to 19 years												
1984	258	265	254	243	250	238	249	236	263	223	302	269
1985	279	291	291	277	279	256	254	260	246	202	225	232
1986	208	189	225	239	233	235	215	225	210	205	209	202
1987	216	224	221	235	215	217	215	203	193	220	186	234
1988	263	226	221	217	214	217	223	218	239	229	220	185
Employed in agricultural industries, women, 16 to 19 years												
1984	53	55	59	53	59	64	66	57	63	51	59	43
1985	43	47	49	68	47	47	51	39	51	50	48	43
1986	50	42	35	37	35	40	33	41	37	39	35	44
1987	41	43	45	33	44	44	49	48	40	47	45	48
1988	52	57	61	58	54	47	36	42	50	54	65	70
Employed in agricultural industries, both sexes, 20 years and over												
1984	2,982	3,033	2,920	2,995	3,034	3,081	3,029	2,993	3,067	2,920	3,033	3,073
1985	2,997	2,980	2,913	2,953	2,952	2,855	2,839	2,825	2,766	2,802	2,789	2,871
1986	3,029	2,853	2,943	2,869	2,889	2,919	2,894	2,825	2,922	2,885	2,968	2,903
1987	2,889	2,938	2,955	2,955	3,085	2,961	2,972	2,878	2,959	2,960	2,909	2,930
1988	2,941	2,917	2,899	2,912	2,842	2,857	2,801	2,882	2,887	2,955	2,953	2,938
Employed in agricultural industries, men, 20 years and over												
1984	2,366	2,417	2,363	2,393	2,432	2,443	2,447	2,413	2,445	2,356	2,461	2,488
1985	2,415	2,381	2,292	2,320	2,356	2,262	2,242	2,242	2,191	2,187	2,218	2,282
1986	2,353	2,274	2,355	2,296	2,281	2,327	2,281	2,185	2,290	2,284	2,311	2,295
1987	2,267	2,315	2,366	2,382	2,442	2,333	2,342	2,248	2,353	2,324	2,279	2,290
1988	2,302	2,279	2,258	2,259	2,238	2,231	2,252	2,273	2,249	2,315	2,313	2,292
Employed in agricultural industries, women, 20 years and over												
1984	616	616	557	602	602	638	582	580	622	564	572	585
1985	582	599	621	633	596	593	597	583	575	615	571	589
1986	676	579	588	573	608	592	613	640	632	601	657	608
1987	622	623	589	573	643	628	630	630	606	636	630	640
1988	639	638	641	653	604	626	549	609	638	640	640	646
Employed in nonagricultural industries												
1984	99,908	100,471	100,734	101,045	101,850	102,208	102,091	101,877	102,097	102,444	102,578	102,838
1985	102,966	103,230	103,727	103,621	103,707	103,434	103,669	103,987	104,578	104,739	104,919	105,023
1986	105,592	105,393	105,644	105,798	106,013	106,463	106,684	106,925	106,889	107,073	107,213	107,507
1987	107,823	108,066	108,238	108,566	109,180	109,065	109,377	109,890	109,704	109,998	110,320	110,528
1988	110,799	111,073	110,948	111,473	111,293	111,880	111,974	112,061	112,194	112,335	112,709	112,816
Employed in nonagricultural industries, both sexes, 16 to 19 years												
1984	6,103	6,095	6,045	6,155	6,152	6,349	6,220	6,055	6,102	6,129	6,093	6,126
1985	6,206	6,207	6,248	6,222	6,183	5,944	6,091	6,062	6,114	6,062	6,143	6,055
1986	6,055	6,169	6,262	6,240	6,256	6,205	6,205	6,237	6,224	6,322	6,224	6,162
1987	6,235	6,265	6,252	6,301	6,423	6,292	6,356	6,647	6,408	6,421	6,453	6,516
1988	6,531	6,495	6,319	6,432	6,439	6,752	6,636	6,612	6,567	6,498	6,550	6,540

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

4. Employed civilians in agriculture and nonagricultural industries by selected characteristics—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Employed in nonagricultural industries, men, 16 to 19 years												
1984	2,990	3,044	3,086	3,082	3,092	3,228	3,042	3,035	3,050	3,059	3,054	3,080
1985	3,114	3,050	3,130	3,189	3,120	3,065	3,057	3,029	3,038	3,022	3,030	3,020
1986	3,018	3,087	3,080	3,110	3,126	3,085	3,125	3,111	3,149	3,184	3,132	3,044
1987	3,124	3,182	3,102	3,082	3,104	3,119	3,140	3,283	3,210	3,218	3,208	3,238
1988	3,254	3,223	3,155	3,247	3,249	3,374	3,309	3,345	3,257	3,217	3,313	3,287
Employed in nonagricultural industries, women, 16 to 19 years												
1984	3,113	3,051	2,959	3,073	3,060	3,121	3,178	3,020	3,052	3,070	3,039	3,048
1985	3,092	3,157	3,118	3,053	3,083	2,879	3,034	3,033	3,078	3,040	3,113	3,035
1986	3,037	3,082	3,182	3,130	3,130	3,120	3,080	3,126	3,075	3,158	3,092	3,118
1987	3,111	3,103	3,150	3,219	3,319	3,173	3,216	3,364	3,198	3,203	3,247	3,278
1988	3,277	3,272	3,164	3,185	3,190	3,378	3,327	3,267	3,310	3,281	3,237	3,253
Employed in nonagricultural industries, both sexes, 20 years and over												
1984	93,805	94,376	94,689	94,890	95,698	95,659	95,871	95,822	95,995	96,315	96,485	96,712
1985	96,760	97,023	97,479	97,399	97,524	97,490	97,578	97,925	98,464	98,677	98,778	98,968
1986	99,537	99,224	99,382	99,556	99,757	100,258	100,479	100,688	100,665	100,751	100,989	101,345
1987	101,588	101,801	101,988	102,265	102,757	102,773	103,021	103,243	103,296	103,577	103,667	104,012
1988	104,288	104,576	104,629	105,041	104,854	105,128	105,338	105,449	105,627	105,837	106,159	106,276
Employed in nonagricultural industries, men, 20 years and over												
1984	52,609	52,796	52,918	52,980	53,229	53,553	53,474	53,517	53,650	53,827	53,813	53,825
1985	53,758	53,831	54,066	54,051	54,194	54,115	54,200	54,408	54,641	54,733	54,734	54,678
1986	55,271	55,003	55,023	55,066	55,035	55,209	55,243	55,404	55,321	55,322	55,592	55,852
1987	55,980	55,979	56,042	56,116	56,286	56,278	56,401	56,544	56,597	56,712	56,905	56,930
1988	57,013	57,282	57,210	57,574	57,418	57,549	57,645	57,568	57,730	57,669	57,686	57,757
Employed in nonagricultural industries, women, 20 years and over												
1984	41,196	41,580	41,771	41,910	42,469	42,306	42,397	42,305	42,345	42,488	42,672	42,887
1985	43,002	43,192	43,413	43,346	43,330	43,375	43,378	43,517	43,623	43,944	44,042	44,292
1986	44,268	44,221	44,359	44,492	44,722	45,409	45,236	45,284	45,344	45,429	45,397	45,493
1987	45,608	45,822	45,944	46,149	46,471	46,494	46,620	46,689	46,699	46,865	46,962	47,082
1988	47,255	47,298	47,419	47,487	47,436	47,579	47,693	47,683	47,897	48,148	48,473	48,519
Employed total wage and salary workers												
1984	93,169	93,637	94,138	94,382	95,227	95,529	95,480	95,201	95,794	95,965	96,197	96,424
1985	96,533	96,760	97,158	97,117	97,233	96,880	97,156	97,253	98,081	98,022	98,296	98,447
1986	99,352	98,913	99,307	99,395	99,479	99,855	99,892	100,113	100,328	100,409	100,419	100,761
1987	101,089	101,237	101,556	101,700	102,518	102,082	102,552	102,920	102,967	103,164	103,536	103,511
1988	104,042	104,138	103,949	104,194	103,719	104,536	104,761	104,814	105,113	105,394	105,442	105,602
Employed wage and salary workers in agricultural industries												
1984	1,452	1,527	1,486	1,553	1,561	1,578	1,551	1,521	1,614	1,548	1,588	1,688
1985	1,566	1,577	1,540	1,599	1,590	1,542	1,507	1,523	1,469	1,465	1,540	1,551
1986	1,617	1,489	1,599	1,520	1,495	1,520	1,526	1,548	1,544	1,547	1,598	1,622
1987	1,808	1,611	1,658	1,563	1,715	1,637	1,655	1,616	1,646	1,679	1,599	1,589
1988	1,629	1,640	1,610	1,632	1,574	1,583	1,572	1,607	1,612	1,661	1,672	1,698
Employed nonagricultural private wage and salary workers												
1984	76,165	76,554	76,876	77,050	77,892	78,242	78,256	77,940	78,308	78,485	78,835	78,880
1985	79,215	79,202	79,587	79,527	79,691	79,367	79,743	79,875	80,427	80,347	80,649	80,721
1986	81,402	81,258	81,521	81,631	81,620	81,998	81,777	82,116	82,431	82,624	82,420	82,708
1987	83,090	83,062	83,274	83,624	84,051	83,543	83,930	84,526	84,363	84,434	84,869	84,901
1988	85,333	85,537	85,387	85,550	85,199	85,904	86,158	86,096	86,356	86,493	86,383	86,481
Employed government workers in nonagricultural industries												
1984	15,572	15,756	15,776	15,779	15,774	15,709	15,673	15,740	15,872	15,932	15,774	15,856
1985	15,752	16,001	16,029	15,991	15,952	15,971	15,906	16,055	16,185	16,210	16,107	16,175
1986	16,333	16,186	16,187	16,244	16,364	16,337	16,589	16,449	16,353	16,238	16,401	16,431
1987	18,391	16,564	16,624	16,513	16,752	16,902	16,967	16,778	16,958	17,051	17,068	17,021
1988	17,080	16,961	16,952	17,012	16,946	17,049	17,031	17,111	17,145	17,240	17,387	17,423

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

4. Employed civilians in agriculture and nonagricultural industries by selected characteristics—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Employed self-employed workers in agricultural industries												
1984	1,596	1,600	1,575	1,538	1,532	1,572	1,550	1,575	1,573	1,478	1,564	1,501
1985	1,513	1,499	1,495	1,481	1,486	1,458	1,480	1,466	1,403	1,429	1,360	1,442
1986	1,482	1,431	1,445	1,458	1,470	1,518	1,437	1,406	1,456	1,438	1,423	1,395
1987	1,368	1,438	1,411	1,493	1,443	1,416	1,441	1,390	1,403	1,423	1,396	1,461
1988	1,427	1,410	1,416	1,390	1,365	1,375	1,362	1,411	1,421	1,405	1,450	1,349
Employed self-employed workers in nonagricultural industries												
1984	7,856	7,860	7,778	7,856	7,817	7,847	7,765	7,767	7,737	7,744	7,628	7,739
1985	7,781	7,724	7,839	7,753	7,736	7,721	7,704	7,839	7,829	7,992	7,932	7,839
1986	7,698	7,711	7,742	7,614	7,764	7,790	8,050	7,956	7,947	8,031	8,134	8,079
1987	8,218	8,189	8,103	8,084	8,084	8,265	8,221	8,215	8,193	8,366	8,149	8,306
1988	8,246	8,338	8,395	8,567	8,816	8,536	8,531	8,508	8,570	8,479	8,619	8,602
Employed unpaid-family workers in agricultural industries												
1984	235	225	181	202	230	221	228	210	201	191	208	226
1985	231	240	222	210	184	164	170	171	185	179	148	167
1986	174	169	173	167	171	159	171	169	165	165	196	149
1987	147	139	155	167	162	158	154	152	142	138	157	155
1988	143	123	146	152	155	161	149	158	137	177	125	149
Employed unpaid-family workers in nonagricultural industries												
1984	352	321	334	340	332	347	327	313	316	319	368	350
1985	334	328	323	300	294	291	274	291	263	253	260	259
1986	272	263	242	247	233	233	251	268	273	271	263	244
1987	248	258	272	260	271	270	261	246	301	248	237	250
1988	241	232	250	272	301	297	251	241	230	232	300	266

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

5. Persons at work on part-time schedules by reason

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Total at work on part-time schedules for economic reasons												
1984	5,934	5,904	5,665	5,761	5,566	5,884	5,744	5,589	5,728	5,710	5,626	5,797
1985	5,632	5,278	5,717	5,648	5,820	5,596	5,583	5,752	5,613	5,453	5,502	5,502
1986	5,547	5,279	5,556	5,867	5,899	5,607	5,373	5,517	5,624	5,760	5,532	5,591
1987	5,500	5,580	5,454	5,406	5,361	5,245	5,419	5,315	5,326	5,441	5,555	5,246
1988	5,355	5,369	5,331	5,212	4,878	5,302	5,341	5,192	5,097	4,963	5,061	5,321
Total at work on part-time schedules for economic reasons-slack work												
1984	2,528	2,502	2,342	2,359	2,263	2,322	2,375	2,352	2,451	2,529	2,455	2,650
1985	2,458	2,203	2,588	2,534	2,639	2,539	2,400	2,481	2,462	2,236	2,314	2,363
1986	2,351	2,315	2,315	2,570	2,701	2,448	2,454	2,387	2,530	2,523	2,509	2,442
1987	2,434	2,443	2,385	2,365	2,325	2,328	2,416	2,470	2,278	2,437	2,458	2,265
1988	2,351	2,408	2,448	2,264	2,267	2,346	2,471	2,315	2,266	2,220	2,279	2,549
Total at work on part-time schedules for economic reasons-could only find part-time work												
1984	3,090	3,087	3,033	3,072	3,018	3,043	2,874	2,741	3,000	2,829	2,838	2,846
1985	2,831	2,798	2,740	2,729	2,851	2,763	2,788	2,875	2,832	2,882	2,903	2,850
1986	2,886	2,674	2,929	2,923	2,873	2,824	2,619	2,760	2,789	2,825	2,696	2,881
1987	2,712	2,767	2,720	2,741	2,709	2,583	2,656	2,517	2,719	2,668	2,726	2,617
1988	2,630	2,591	2,548	2,519	2,353	2,586	2,538	2,473	2,389	2,399	2,375	2,410
Total at work on part-time schedules for noneconomic reasons-usually work part time												
1984	13,005	13,011	13,045	13,338	13,522	12,979	13,092	13,138	13,224	13,091	13,184	13,345
1985	13,288	13,546	13,565	13,295	13,222	13,257	13,569	13,561	13,558	13,703	13,678	13,628
1986	13,870	13,844	13,817	13,896	13,815	14,056	13,932	13,925	13,959	14,248	14,034	13,846
1987	14,155	14,135	14,240	13,870	14,524	14,935	14,410	14,579	14,363	14,524	14,448	14,690
1988	14,580	14,619	14,654	14,949	14,813	14,612	15,026	14,999	15,270	15,161	15,446	15,363
Nonagricultural workers on part-time schedules for economic reasons												
1984	5,708	5,697	5,492	5,524	5,310	5,599	5,484	5,383	5,494	5,475	5,393	5,576
1985	5,395	5,066	5,436	5,364	5,517	5,322	5,298	5,466	5,369	5,225	5,302	5,261
1986	5,289	5,110	5,303	5,577	5,629	5,384	5,120	5,311	5,383	5,494	5,302	5,311
1987	5,187	5,326	5,168	5,122	5,098	4,979	5,103	5,046	5,050	5,142	5,287	4,979
1988	5,113	5,101	5,087	4,953	4,676	5,073	5,102	4,972	4,862	4,727	4,819	5,033
Nonagricultural workers on part-time schedules for economic reasons-slack work												
1984	2,390	2,363	2,230	2,233	2,139	2,166	2,219	2,231	2,279	2,388	2,301	2,526
1985	2,317	2,041	2,388	2,354	2,444	2,348	2,241	2,314	2,318	2,124	2,198	2,229
1986	2,205	2,180	2,138	2,406	2,552	2,318	2,296	2,260	2,363	2,365	2,374	2,281
1987	2,245	2,260	2,186	2,166	2,140	2,162	2,253	2,269	2,097	2,265	2,266	2,099
1988	2,212	2,258	2,265	2,131	2,136	2,183	2,334	2,171	2,102	2,095	2,116	2,377
Nonagricultural workers on part-time schedules for economic reasons-could only find part-time work												
1984	3,001	2,992	2,961	2,977	2,920	2,953	2,795	2,668	2,929	2,769	2,757	2,755
1985	2,745	2,726	2,654	2,655	2,767	2,686	2,698	2,769	2,734	2,792	2,800	2,736
1986	2,789	2,629	2,844	2,817	2,775	2,736	2,568	2,698	2,718	2,748	2,595	2,761
1987	2,620	2,702	2,619	2,675	2,637	2,480	2,564	2,453	2,637	2,571	2,635	2,518
1988	2,554	2,477	2,482	2,426	2,276	2,504	2,493	2,408	2,317	2,319	2,288	2,307
Nonagricultural workers on part-time schedules for noneconomic reasons-usually work part time												
1984	12,544	12,534	12,540	12,982	13,028	12,505	12,658	12,656	12,721	12,626	12,713	12,884
1985	12,822	13,081	13,096	12,874	12,755	12,834	13,155	13,082	13,080	13,246	13,226	13,201
1986	13,378	13,399	13,396	13,539	13,373	13,583	13,509	13,539	13,527	13,784	13,570	13,451
1987	13,728	13,666	13,762	13,404	14,031	14,423	13,918	14,105	13,945	14,067	14,006	14,205
1988	14,115	14,172	14,203	14,441	14,376	14,180	14,606	14,564	14,819	14,679	14,986	14,928

6. Employment-population ratios by sex, age, race, and Hispanic origin

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Total employment-population ratio, including resident Armed Forces												
1984	59.2	59.5	59.5	59.7	60.1	60.3	60.1	59.9	60.1	60.1	60.2	60.3
1985	60.3	60.4	60.6	60.5	60.5	60.2	60.3	60.4	60.7	60.7	60.7	60.8
1986	61.0	60.7	60.8	60.8	60.9	61.1	61.1	61.2	61.2	61.2	61.3	61.3
1987	61.4	61.5	61.5	61.7	62.0	61.8	61.9	62.1	62.0	62.1	62.2	62.3
1988	62.4	62.5	62.3	62.6	62.4	62.7	62.6	62.7	62.7	62.8	62.9	62.9
Total employment-population ratio, including resident Armed Forces, men												
1984	70.5	70.8	70.9	70.9	71.2	71.7	71.3	71.3	71.4	71.4	71.5	71.5
1985	71.4	71.3	71.5	71.5	71.6	71.2	71.2	71.4	71.6	71.5	71.5	71.4
1986	71.8	71.4	71.5	71.5	71.3	71.5	71.4	71.4	71.4	71.4	71.6	71.7
1987	71.8	71.8	71.8	71.8	72.0	71.8	71.9	72.1	72.1	72.2	72.2	72.3
1988	72.4	72.5	72.2	72.7	72.4	72.6	72.6	72.5	72.6	72.5	72.5	72.5
Total employment-population ratio, including resident Armed Forces, women												
1984	48.8	49.1	49.1	49.4	49.9	49.8	49.9	49.6	49.6	49.7	49.8	50.0
1985	50.2	50.4	50.6	50.4	50.3	50.1	50.3	50.3	50.7	50.8	50.8	51.0
1986	51.0	50.8	51.1	51.1	51.3	51.6	51.7	51.8	51.8	51.8	51.8	51.8
1987	51.8	52.0	52.1	52.3	52.8	52.6	52.7	52.9	52.7	52.9	53.0	53.1
1988	53.2	53.2	53.2	53.3	53.1	53.5	53.4	53.6	53.6	53.8	54.1	54.1
Civilian employment-population ratio, all civilian workers												
1984	58.8	59.1	59.1	59.3	59.7	59.9	59.8	59.6	59.7	59.7	59.8	59.9
1985	59.9	60.0	60.2	60.1	60.1	59.9	59.9	60.0	60.3	60.3	60.3	60.4
1986	60.6	60.3	60.5	60.5	60.5	60.8	60.8	60.8	60.8	60.8	60.9	61.0
1987	61.0	61.1	61.2	61.3	61.6	61.5	61.6	61.8	61.6	61.8	61.8	61.9
1988	62.0	62.1	62.0	62.2	62.0	62.3	62.3	62.3	62.4	62.4	62.6	62.6
Civilian employment-population ratio, men												
1984	70.0	70.3	70.3	70.4	70.7	71.2	70.8	70.7	70.9	70.9	71.0	71.0
1985	70.8	70.8	71.0	71.0	71.1	70.7	70.7	70.9	71.0	71.0	71.0	70.9
1986	71.3	70.9	71.0	70.9	70.8	71.0	70.9	70.9	70.9	70.8	71.1	71.2
1987	71.3	71.3	71.3	71.3	71.5	71.3	71.4	71.6	71.6	71.7	71.7	71.8
1988	71.9	72.0	71.7	72.2	71.9	72.1	72.1	72.1	72.1	72.0	72.1	72.0
Civilian employment-population ratio, women												
1984	48.7	49.0	49.0	49.3	49.9	49.7	49.8	49.5	49.6	49.6	49.7	49.9
1985	50.1	50.3	50.5	50.4	50.3	50.1	50.2	50.3	50.6	50.7	50.8	50.9
1986	50.9	50.8	51.0	51.0	51.2	51.5	51.6	51.7	51.7	51.8	51.7	51.7
1987	51.8	51.9	52.0	52.2	52.7	52.5	52.7	52.9	52.6	52.8	52.9	53.0
1988	53.1	53.2	53.1	53.2	53.1	53.4	53.3	53.5	53.5	53.7	54.0	54.0
Civilian employment-population ratio, both sexes, 16 to 19 years												
1984	42.8	43.0	42.7	43.5	43.7	45.2	44.5	43.3	44.0	43.9	44.3	44.2
1985	44.7	44.8	45.2	45.2	44.9	43.1	44.3	44.0	44.3	43.7	44.3	43.7
1986	43.7	44.2	45.0	45.0	45.1	44.8	44.6	44.8	44.6	45.2	44.4	44.0
1987	44.6	44.9	44.8	45.1	45.8	44.8	45.3	47.1	45.4	45.6	45.6	46.5
1988	46.9	46.5	45.2	45.9	46.0	48.3	47.4	47.4	47.4	46.9	47.4	47.0
Civilian employment-population ratio, men, 16 to 19 years												
1984	43.2	44.2	44.8	44.7	45.1	47.0	44.7	44.5	45.2	44.9	45.9	45.9
1985	46.3	45.7	46.8	47.3	46.7	45.6	45.6	45.4	45.3	44.5	44.9	44.8
1986	44.5	45.2	45.5	46.1	46.2	45.6	45.9	45.8	46.2	46.2	45.7	44.5
1987	45.8	46.4	45.5	45.4	45.3	45.4	45.7	47.4	46.2	46.7	46.0	47.3
1988	48.0	47.1	46.0	47.3	47.2	49.1	48.2	48.8	48.0	47.5	48.7	47.8
Civilian employment-population ratio, women, 16 to 19 years												
1984	42.4	41.7	40.7	42.3	42.3	43.3	44.3	42.1	42.7	42.9	42.6	42.6
1985	43.0	43.9	43.5	43.0	43.1	40.6	42.9	42.7	43.4	42.8	43.8	42.7
1986	42.8	43.3	44.5	43.9	43.9	43.9	43.3	43.9	43.1	44.2	43.1	43.6
1987	43.5	43.4	44.1	44.8	46.2	44.2	44.8	46.8	44.5	44.6	45.2	45.7
1988	45.8	45.8	44.5	44.6	44.7	47.5	46.7	46.1	46.7	46.4	46.0	46.2

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

6. Employment-population ratios by sex, age, race, and Hispanic origin—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian employment-population ratio, both sexes, 20 years and over												
1984	60.3	60.6	60.6	60.7	61.2	61.2	61.1	61.0	61.1	61.1	61.2	61.3
1985	61.3	61.4	61.6	61.5	61.5	61.3	61.3	61.4	61.7	61.8	61.8	61.9
1986	62.1	61.7	61.8	61.8	61.9	62.1	62.2	62.2	62.2	62.2	62.3	62.4
1987	62.5	62.5	62.6	62.7	63.0	62.9	63.0	63.0	63.0	63.2	63.3	63.3
1988	63.4	63.5	63.4	63.6	63.4	63.5	63.5	63.6	63.7	63.7	63.9	63.9
Civilian employment-population ratio, men, 20 years and over												
1984	72.6	72.9	72.9	72.9	73.2	73.5	73.3	73.3	73.4	73.4	73.4	73.4
1985	73.2	73.2	73.3	73.2	73.4	73.1	73.1	73.3	73.4	73.4	73.4	73.4
1986	73.8	73.3	73.3	73.3	73.1	73.3	73.2	73.2	73.2	73.1	73.4	73.6
1987	73.6	73.6	73.7	73.7	73.9	73.7	73.8	73.8	73.9	74.0	74.1	74.0
1988	74.0	74.3	74.1	74.5	74.2	74.2	74.3	74.2	74.3	74.2	74.1	74.1
Civilian employment-population ratio, women, 20 years and over												
1984	49.3	49.7	49.8	49.9	50.5	50.3	50.3	50.1	50.1	50.2	50.3	50.6
1985	50.7	50.9	51.1	51.0	50.9	50.8	50.8	50.9	51.2	51.3	51.3	51.6
1986	51.6	51.4	51.5	51.6	51.8	52.1	52.3	52.4	52.4	52.4	52.4	52.4
1987	52.4	52.6	52.7	52.9	53.3	53.2	53.3	53.4	53.3	53.5	53.5	53.6
1988	53.7	53.8	53.8	53.9	53.7	53.9	53.8	54.1	54.1	54.3	54.6	54.7
Civilian employment-population ratio, both sexes, 20 to 24 years												
1984	67.3	67.9	68.2	68.1	69.0	69.8	69.2	67.9	68.7	69.1	69.6	69.3
1985	69.5	69.2	69.2	69.5	69.3	69.3	69.1	69.3	70.0	70.1	70.0	70.6
1986	70.2	70.6	70.7	70.1	69.8	70.5	70.5	70.4	70.5	70.4	71.2	71.0
1987	71.2	71.2	71.3	71.0	71.4	70.8	71.3	71.7	71.3	71.4	71.6	71.3
1988	72.1	72.3	71.8	72.0	71.2	72.0	71.8	72.1	72.1	71.9	71.4	71.7
Civilian employment-population ratio, men, 20 to 24 years												
1984	73.4	74.2	74.6	74.6	75.2	76.6	75.1	74.0	74.9	75.2	75.8	75.1
1985	75.3	74.8	74.6	75.2	75.1	75.0	74.5	75.3	76.0	75.6	76.1	76.5
1986	76.7	77.3	77.0	75.6	74.9	76.0	76.2	76.1	75.8	76.7	77.0	77.2
1987	76.9	77.0	76.9	76.7	76.8	76.0	76.8	77.3	77.1	76.8	77.0	76.4
1988	76.9	77.6	77.6	77.8	77.3	77.6	77.4	77.8	78.0	77.3	77.3	77.2
Civilian employment-population ratio, women, 20 to 24 years												
1984	61.6	62.0	62.0	61.9	63.0	63.3	63.5	62.0	62.9	63.2	63.6	63.7
1985	64.1	64.0	64.1	64.1	63.9	63.8	64.0	63.6	64.4	65.0	64.3	65.0
1986	64.0	64.3	64.7	64.9	64.9	65.2	65.1	65.1	65.5	64.6	65.8	65.2
1987	65.9	65.7	66.0	65.7	66.3	66.0	66.2	66.5	66.0	66.3	66.6	66.6
1988	67.6	67.3	66.4	66.5	65.4	66.7	66.5	66.8	66.5	66.8	65.9	66.5
Civilian employment-population ratio, both sexes, 25 years and over												
1984	59.2	59.5	59.6	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.1
1985	60.1	60.3	60.5	60.3	60.3	60.2	60.2	60.4	60.5	60.6	60.6	60.6
1986	61.0	60.5	60.7	60.7	60.8	61.0	61.1	61.2	61.1	61.1	61.2	61.3
1987	61.3	61.4	61.5	61.6	61.9	61.9	62.0	62.0	62.0	62.1	62.2	62.3
1988	62.3	62.4	62.4	62.6	62.4	62.5	62.6	62.6	62.6	62.8	63.0	63.0
Civilian employment-population ratio, men, 25 years and over												
1984	72.5	72.7	72.7	72.6	72.8	73.0	73.0	73.1	73.1	73.1	73.1	73.1
1985	72.9	73.0	73.2	72.9	73.1	72.8	72.9	73.0	73.1	73.1	73.1	72.9
1986	73.4	72.7	72.9	72.9	72.8	72.9	72.8	72.9	72.8	72.6	73.0	73.1
1987	73.2	73.2	73.3	73.3	73.5	73.4	73.4	73.4	73.5	73.6	73.7	73.7
1988	73.6	73.8	73.7	74.0	73.8	73.8	74.0	73.8	73.8	73.8	73.8	73.8
Civilian employment-population ratio, women, 25 years and over												
1984	47.5	47.9	48.0	48.2	48.7	48.5	48.5	48.4	48.3	48.4	48.5	48.7
1985	48.8	49.1	49.3	49.2	49.0	49.1	49.1	49.1	49.4	49.5	49.6	49.8
1986	49.9	49.7	49.8	49.8	50.1	50.5	50.7	50.7	50.7	50.8	50.6	50.7
1987	50.8	51.0	51.0	51.2	51.6	51.7	51.8	51.7	51.7	51.9	51.9	52.0
1988	52.1	52.1	52.3	52.4	52.3	52.4	52.4	52.6	52.6	52.8	53.3	53.3

6. Employment-population ratios by sex, age, race, and Hispanic origin—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian employment-population ratio, both sexes, 25 to 54 years												
1984	74.9	75.2	75.4	75.8	76.0	76.1	76.0	76.2	76.0	76.1	76.1	76.3
1985	78.4	78.5	78.8	78.8	78.5	78.4	78.5	78.7	77.0	78.9	77.0	77.1
1986	77.4	78.9	77.0	77.0	77.0	77.2	77.4	77.5	77.8	77.6	77.8	77.8
1987	77.7	77.9	78.0	78.2	78.4	78.4	78.5	78.6	78.8	78.8	78.7	78.8
1988	78.8	78.9	79.0	79.1	79.1	79.1	79.3	79.3	79.2	79.3	79.5	79.6
Civilian employment-population ratio, men, 25 to 54 years												
1984	87.8	87.8	88.0	88.0	88.2	88.8	88.8	88.7	88.7	88.7	88.7	88.7
1985	88.6	88.7	88.7	88.8	88.8	88.4	88.7	88.7	88.8	88.9	88.8	88.7
1986	89.0	88.4	88.5	88.5	88.2	88.5	88.4	88.7	88.8	88.3	88.5	88.8
1987	88.7	88.7	88.8	88.8	89.0	88.9	89.0	89.1	89.2	89.2	89.3	89.3
1988	89.3	89.4	89.4	89.7	89.4	89.4	89.7	89.4	89.5	89.5	89.5	89.5
Civilian employment-population ratio, women, 25 to 54 years												
1984	62.9	63.2	63.4	63.7	64.4	64.3	64.2	64.3	64.0	64.2	64.2	64.5
1985	84.8	84.9	85.2	85.2	84.8	85.1	85.0	85.3	85.7	85.7	85.9	86.1
1986	86.3	85.8	85.9	86.1	86.2	86.5	86.8	86.8	87.1	87.4	87.1	87.4
1987	88.2	87.6	87.6	88.0	88.4	88.4	88.5	88.5	88.8	88.5	88.6	88.7
1988	88.8	88.8	89.1	89.0	89.1	89.2	89.3	89.5	89.4	89.6	90.0	90.1
Civilian employment-population ratio, both sexes, 25 to 34 years												
1984	74.8	75.0	75.1	75.4	75.8	76.2	76.2	76.5	76.4	76.5	76.1	76.3
1985	76.5	76.6	76.7	76.6	78.4	76.5	76.7	76.5	77.3	76.9	76.9	77.3
1986	77.4	76.7	77.0	77.0	76.8	77.2	77.0	77.3	77.3	77.2	77.8	77.8
1987	77.3	77.7	77.8	78.1	78.1	78.3	78.8	78.6	78.6	78.7	78.8	78.6
1988	78.7	78.8	78.7	78.9	78.8	78.6	78.8	78.6	78.8	78.7	78.9	79.3
Civilian employment-population ratio, men, 25 to 34 years												
1984	86.4	86.5	86.9	87.1	87.3	87.8	87.9	88.5	88.5	88.4	87.9	87.9
1985	88.2	88.4	88.3	88.3	88.5	88.2	88.5	88.4	88.5	88.5	88.6	88.6
1986	89.1	88.4	88.5	88.2	87.8	88.3	87.8	88.5	88.2	87.6	88.4	88.5
1987	88.2	88.5	88.6	88.7	89.0	89.0	89.3	89.1	89.2	89.3	89.4	89.3
1988	89.5	89.5	89.0	89.4	89.0	88.9	89.6	89.0	89.3	89.8	89.4	89.8
Civilian employment-population ratio, women, 25 to 34 years												
1984	63.7	64.0	63.8	64.2	64.8	65.0	64.9	65.1	64.7	65.0	64.8	65.1
1985	65.2	65.3	65.6	65.4	64.9	65.3	65.4	65.3	66.6	65.9	65.8	68.4
1986	66.0	65.4	65.8	66.2	66.3	66.5	66.6	66.4	66.9	67.1	67.1	67.0
1987	66.7	67.2	67.4	67.9	67.7	68.0	68.3	68.4	68.3	68.4	68.6	68.4
1988	68.4	68.6	68.6	68.7	68.9	68.7	68.4	68.6	68.3	68.2	68.8	69.2
Civilian employment-population ratio, both sexes, 35 to 44 years												
1984	77.2	77.8	77.8	77.8	78.5	78.2	78.1	77.8	77.9	78.0	78.2	78.6
1985	78.5	78.4	78.6	78.6	78.7	78.6	78.7	78.9	78.8	79.3	79.3	79.2
1986	79.3	78.8	78.9	79.0	79.2	79.3	79.7	79.9	79.9	79.8	79.3	80.0
1987	80.3	80.4	80.2	80.4	80.8	80.5	80.5	80.6	80.6	80.6	80.6	80.6
1988	80.7	80.7	81.0	81.1	81.0	81.3	81.4	81.5	81.5	81.6	81.8	81.5
Civilian employment-population ratio, men, 35 to 44 years												
1984	90.3	90.7	90.6	90.2	90.6	90.5	90.3	89.7	90.1	90.3	90.6	91.0
1985	90.5	90.3	90.4	90.4	90.7	90.0	90.4	90.5	90.4	90.7	90.3	90.0
1986	90.2	89.5	89.8	90.1	89.9	89.9	90.2	90.0	90.0	89.9	89.7	90.2
1987	90.6	90.7	90.3	90.3	90.2	90.3	90.2	90.5	90.6	90.4	90.4	90.5
1988	90.4	90.6	90.7	90.9	90.9	91.1	91.2	91.1	91.1	91.0	91.0	90.7
Civilian employment-population ratio, women, 35 to 44 years												
1984	64.8	65.6	65.8	66.0	67.1	66.5	66.5	66.4	66.3	66.4	66.5	66.8
1985	67.0	67.1	67.4	67.5	67.3	67.8	67.7	67.9	67.8	68.5	68.9	68.9
1986	69.1	68.7	68.6	68.5	69.0	69.3	69.8	70.3	70.2	70.2	69.4	70.3
1987	70.4	70.7	70.5	71.0	71.8	71.1	71.2	71.2	71.1	71.3	71.2	71.2
1988	71.4	71.2	71.8	71.8	71.6	71.9	72.1	72.3	72.3	72.6	73.0	72.7

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

6. Employment-population ratios by sex, age, race, and Hispanic origin—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian employment-population ratio, both sexes, 45 to 54 years												
1984	72.0	71.9	72.5	72.8	72.7	73.2	73.0	73.4	72.8	72.9	73.2	73.1
1985	73.3	73.6	73.7	73.7	73.7	73.3	73.2	73.9	73.8	73.6	74.0	74.0
1986	74.5	74.3	74.1	74.2	74.1	74.3	74.6	74.5	74.8	75.1	74.9	75.1
1987	74.8	74.7	74.9	75.1	75.6	75.5	75.4	75.5	75.8	75.6	75.8	76.3
1988	76.4	76.4	76.6	76.7	76.8	76.7	76.9	77.1	77.0	77.1	77.3	77.2
Civilian employment-population ratio, men, 45 to 54 years												
1984	86.2	86.4	86.5	86.7	86.4	87.5	87.3	87.9	87.0	87.1	87.5	87.1
1985	86.5	86.9	86.9	86.5	86.8	86.5	86.6	86.8	87.0	86.9	87.1	87.1
1986	87.0	87.0	86.7	86.8	86.8	86.8	87.0	87.1	87.3	87.2	86.9	87.1
1987	86.9	86.4	86.8	86.8	87.1	86.7	86.8	87.0	87.1	87.2	87.2	87.6
1988	87.5	87.8	88.2	88.6	88.1	87.8	87.7	87.7	87.5	87.3	87.6	87.2
Civilian employment-population ratio, women, 45 to 54 years												
1984	58.7	58.4	59.5	59.8	60.0	59.9	59.7	59.9	59.6	59.7	59.8	60.0
1985	60.9	61.2	61.3	61.7	61.3	61.0	60.8	61.8	61.3	61.2	61.8	61.7
1986	62.8	62.4	62.4	62.5	62.2	62.6	63.1	62.8	63.2	63.8	63.7	63.9
1987	63.5	63.6	63.8	64.2	64.9	65.0	64.8	64.7	65.3	64.8	65.1	65.8
1988	65.9	65.7	65.8	65.6	66.1	66.2	66.8	67.2	67.1	67.5	67.7	67.8
Civilian employment-population ratio, both sexes, 55 years and over												
1984	29.5	29.6	29.4	29.5	29.4	29.2	29.3	29.2	29.4	29.0	29.1	29.3
1985	29.1	29.2	29.6	29.2	29.1	29.0	28.8	29.0	29.0	29.1	28.9	28.9
1986	29.1	28.6	28.8	28.9	29.1	29.3	29.3	29.2	28.9	28.6	28.8	28.8
1987	29.0	28.8	28.9	28.8	29.1	29.1	29.1	29.1	29.0	29.2	29.2	29.3
1988	29.1	29.2	29.1	29.2	28.9	29.0	28.9	29.0	29.2	29.2	29.4	29.3
Civilian employment-population ratio, men, 55 years and over												
1984	40.4	40.3	39.9	39.9	39.8	39.7	39.8	39.8	40.0	39.6	39.4	39.6
1985	39.3	39.4	40.0	39.5	39.2	39.3	39.0	39.4	39.4	39.4	39.2	39.0
1986	39.4	38.5	38.8	38.9	39.1	38.9	38.8	38.4	38.4	38.3	38.7	39.0
1987	38.9	38.8	39.0	38.8	39.1	39.1	38.9	38.7	38.8	39.1	39.1	39.1
1988	38.6	38.9	38.6	38.8	38.5	38.7	38.7	38.6	38.5	38.4	38.2	38.3
Civilian employment-population ratio, women, 55 years and over												
1984	21.2	21.5	21.4	21.5	21.5	21.1	21.2	21.1	21.3	20.9	21.2	21.3
1985	21.1	21.3	21.5	21.3	21.3	21.0	21.0	20.9	20.9	21.1	20.9	21.0
1986	21.0	20.9	20.9	21.0	21.3	21.8	21.8	21.9	21.4	21.1	21.1	20.8
1987	21.2	21.0	21.0	20.9	21.2	21.4	21.5	21.5	21.3	21.6	21.4	21.6
1988	21.6	21.6	21.6	21.8	21.3	21.4	21.2	21.5	21.8	22.0	22.5	22.3
Civilian employment-population ratio, both sexes, 55 to 64 years												
1984	51.4	51.8	51.7	52.0	51.9	51.7	51.7	51.6	51.8	51.0	51.5	51.9
1985	51.7	51.8	52.4	52.0	51.8	51.8	51.7	51.9	51.7	51.9	51.7	51.5
1986	51.5	50.9	51.3	51.4	51.9	52.4	52.4	52.4	51.9	51.8	52.0	51.9
1987	52.4	52.1	52.2	52.2	52.6	52.6	52.5	52.2	52.5	52.9	52.9	53.0
1988	52.6	52.8	52.6	53.0	52.4	52.5	52.6	52.8	53.0	53.1	53.1	53.3
Civilian employment-population ratio, men, 55 to 64 years												
1984	65.2	65.2	64.8	65.2	65.0	65.0	65.0	65.3	65.3	64.7	64.9	65.5
1985	64.9	64.8	65.6	65.2	64.6	65.2	65.0	65.2	65.0	65.0	64.8	64.3
1986	64.3	63.2	63.9	64.3	64.9	64.7	64.5	64.2	64.4	64.5	64.8	65.0
1987	65.2	65.0	65.4	65.0	65.3	65.1	65.1	64.2	65.0	65.2	65.3	65.3
1988	64.8	65.1	64.7	65.1	64.7	64.6	64.8	64.7	64.7	64.5	64.1	64.4
Civilian employment-population ratio, women, 55 to 64 years												
1984	39.4	40.1	40.2	40.4	40.4	40.1	40.1	39.6	40.0	39.0	39.8	40.1
1985	39.9	40.2	40.8	40.3	40.4	39.9	39.9	40.2	40.0	40.3	40.1	40.2
1986	40.1	40.0	40.1	40.1	40.5	41.6	41.7	41.9	40.8	40.5	40.6	40.3
1987	41.1	40.6	40.5	40.8	41.2	41.5	41.4	41.5	41.4	42.0	41.9	42.0
1988	41.8	41.8	41.9	42.2	41.5	41.8	41.8	42.2	42.7	42.9	43.3	43.4

6. Employment-population ratios by sex, age, race, and Hispanic origin—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian employment-population ratio, both sexes, 65 years and over												
1984	11.1	11.0	10.8	10.7	10.7	10.4	10.6	10.6	10.8	10.8	10.6	10.6
1985	10.4	10.5	10.7	10.5	10.4	10.3	10.1	10.3	10.4	10.5	10.4	10.5
1986	10.9	10.6	10.6	10.7	10.7	10.7	10.8	10.6	10.6	10.3	10.5	10.6
1987	10.5	10.5	10.7	10.5	10.7	10.9	11.0	11.1	10.9	11.0	10.9	11.1
1988	11.0	11.2	11.1	11.3	11.0	11.2	10.9	11.0	11.1	11.2	11.6	11.4
Civilian employment-population ratio, men, 65 years and over												
1984	16.5	16.4	15.9	15.7	15.7	15.6	15.7	15.6	16.1	15.7	15.3	15.2
1985	15.1	15.3	15.7	15.4	15.2	15.0	14.6	15.3	15.6	15.5	15.3	15.5
1986	16.3	15.8	15.8	15.8	15.6	15.5	15.4	15.0	14.9	14.6	15.2	15.6
1987	15.4	15.2	15.6	15.6	16.0	16.2	15.9	16.3	15.9	16.2	16.3	16.3
1988	15.8	16.1	15.9	16.1	16.0	16.4	16.2	16.2	16.1	16.1	16.1	16.2
Civilian employment-population ratio, women, 65 years and over												
1984	7.4	7.3	7.2	7.3	7.2	6.9	7.0	7.2	7.2	7.4	7.3	7.4
1985	7.1	7.2	7.2	7.2	7.1	7.0	7.0	6.8	6.8	7.0	6.9	7.1
1986	7.0	7.0	6.9	7.1	7.3	7.4	7.5	7.5	7.5	7.2	7.2	7.0
1987	7.1	7.1	7.2	6.9	7.1	7.2	7.5	7.5	7.3	7.3	7.2	7.4
1988	7.6	7.7	7.7	7.8	7.5	7.5	7.2	7.4	7.6	7.8	8.4	8.0
Civilian employment-population ratio, white workers												
1984	59.9	60.1	60.2	60.3	60.7	60.9	60.8	60.4	60.5	60.6	60.6	60.8
1985	60.7	60.9	61.1	61.0	61.0	60.6	60.8	60.8	61.2	61.2	61.3	61.3
1986	61.5	61.1	61.3	61.3	61.4	61.6	61.7	61.8	61.7	61.7	61.7	61.8
1987	61.9	62.0	62.0	62.1	62.5	62.2	62.4	62.5	62.4	62.5	62.5	62.7
1988	62.8	63.0	62.9	63.1	63.0	63.2	63.0	63.1	63.2	63.2	63.4	63.4
Civilian employment-population ratio, white men												
1984	71.5	71.7	71.8	71.9	72.1	72.7	72.4	72.1	72.4	72.3	72.3	72.4
1985	72.2	72.2	72.4	72.4	72.6	72.1	72.1	72.2	72.4	72.5	72.4	72.3
1986	72.6	72.2	72.2	72.2	72.1	72.3	72.2	72.3	72.3	72.2	72.4	72.5
1987	72.5	72.6	72.5	72.4	72.8	72.5	72.6	72.7	72.8	72.8	72.8	73.0
1988	73.0	73.3	73.1	73.3	73.2	73.3	73.3	73.2	73.3	73.2	73.3	73.2
Civilian employment-population ratio, white women												
1984	49.2	49.5	49.5	49.7	50.2	50.0	50.1	49.6	49.7	49.8	50.0	50.2
1985	50.3	50.7	50.8	50.5	50.4	50.2	50.4	50.5	50.9	51.0	51.1	51.2
1986	51.2	51.0	51.2	51.3	51.5	51.8	52.0	52.1	52.0	52.1	51.9	52.0
1987	52.1	52.2	52.3	52.6	53.0	52.8	53.0	53.1	52.9	53.0	53.0	53.2
1988	53.4	53.4	53.5	53.7	53.5	53.8	53.6	53.8	53.9	54.0	54.3	54.3
Civilian employment-population ratio, white workers, 16 to 19 years												
1984	47.6	47.6	47.6	48.0	48.3	49.4	48.9	46.8	48.0	48.1	48.1	48.5
1985	48.8	49.3	49.5	49.0	48.8	47.2	48.4	47.5	48.7	48.0	48.6	48.0
1986	47.8	48.5	49.4	48.9	49.0	48.7	48.5	48.9	48.9	49.5	48.6	48.4
1987	48.9	49.1	49.0	49.2	50.1	48.6	49.2	50.3	49.0	49.6	49.3	50.6
1988	51.0	51.0	49.6	50.1	50.0	52.5	51.3	51.1	51.4	51.0	51.3	51.2
Civilian employment-population ratio, white men, 16 to 19 years												
1984	47.7	48.7	49.1	48.7	49.3	51.3	48.9	47.7	49.0	49.3	49.5	50.0
1985	50.4	49.6	50.9	51.3	50.9	50.0	50.0	48.6	49.5	48.9	49.2	48.9
1986	48.8	49.1	49.6	49.7	49.8	49.5	49.9	49.6	50.5	50.6	49.7	48.7
1987	49.5	50.4	49.6	49.1	49.6	48.9	49.4	50.4	50.0	50.7	49.3	51.3
1988	51.9	51.7	50.6	51.0	50.7	52.7	51.6	52.2	51.7	51.2	52.4	52.2
Civilian employment-population ratio, white women, 16 to 19 years												
1984	47.5	46.5	46.1	47.2	47.2	47.6	49.0	45.8	47.0	46.8	46.8	46.8
1985	47.2	48.9	48.0	46.7	46.7	44.4	46.8	46.3	47.8	47.2	48.0	47.1
1986	46.8	47.9	49.1	48.0	48.2	47.9	47.0	48.2	47.3	48.4	47.6	48.1
1987	48.3	47.8	48.4	49.2	50.5	48.3	48.9	50.1	48.1	48.5	49.2	50.0
1988	50.0	50.2	48.5	49.2	49.3	52.2	50.9	49.9	51.0	50.7	50.2	50.1

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

6. Employment-population ratios by sex, age, race, and Hispanic origin—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian employment-population ratio, white workers, 20 years and over												
1984	61.0	61.2	61.3	61.4	61.8	61.9	61.8	61.5	61.6	61.7	61.8	61.8
1985	61.8	61.9	62.1	62.0	62.0	61.6	61.8	61.9	62.2	62.3	62.4	62.4
1986	62.6	62.2	62.3	62.3	62.4	62.7	62.7	62.8	62.8	62.7	62.8	63.0
1987	63.0	63.0	63.1	63.2	63.5	63.3	63.4	63.5	63.5	63.6	63.6	63.7
1988	63.8	63.9	64.0	64.2	64.0	64.0	64.0	64.1	64.1	64.2	64.4	64.3
Civilian employment-population ratio, white men, 20 years and over												
1984	73.8	73.9	73.9	74.1	74.2	74.7	74.5	74.3	74.5	74.4	74.4	74.4
1985	74.1	74.2	74.3	74.2	74.5	74.0	74.0	74.2	74.5	74.5	74.5	74.4
1986	74.7	74.2	74.2	74.2	74.1	74.2	74.1	74.3	74.2	74.1	74.4	74.6
1987	74.5	74.5	74.5	74.5	74.9	74.6	74.6	74.7	74.7	74.7	74.9	74.9
1988	74.8	75.2	75.0	75.3	75.2	75.1	75.2	75.0	75.1	75.1	75.0	75.0
Civilian employment-population ratio, white women, 20 years and over												
1984	49.4	49.7	49.8	49.9	50.5	50.2	50.2	50.0	49.9	50.1	50.2	50.4
1985	50.5	50.8	51.0	50.8	50.7	50.7	50.7	50.8	51.1	51.3	51.4	51.5
1986	51.5	51.2	51.4	51.5	51.7	52.1	52.4	52.4	52.3	52.4	52.3	52.4
1987	52.4	52.5	52.6	52.8	53.2	53.1	53.3	53.3	53.3	53.4	53.3	53.5
1988	53.6	53.7	53.9	54.0	53.8	53.9	53.8	54.1	54.1	54.2	54.6	54.6
Civilian employment-population ratio, black workers												
1984	50.5	51.8	51.4	51.3	52.2	52.5	52.0	52.8	53.0	53.1	53.6	53.4
1985	53.5	52.9	53.3	53.5	53.3	53.7	53.3	53.6	53.3	53.4	53.1	53.8
1986	53.9	53.9	54.3	54.5	54.7	54.4	54.1	53.2	53.8	54.1	54.1	54.3
1987	54.3	54.9	54.8	55.0	55.0	55.5	55.9	56.4	55.8	56.4	56.4	56.4
1988	56.3	55.9	55.6	55.9	55.8	55.8	56.8	56.6	56.6	56.8	56.8	56.9
Civilian employment-population ratio, black men												
1984	58.1	59.4	58.5	57.8	59.3	58.8	58.4	59.5	59.8	60.2	60.6	60.0
1985	59.8	59.6	59.6	59.7	59.8	60.1	59.9	60.9	60.3	60.0	59.5	60.1
1986	60.7	60.5	61.0	60.9	61.4	61.0	60.8	59.4	59.9	60.3	60.5	61.2
1987	61.2	61.5	61.7	61.6	61.2	61.7	62.3	62.7	62.5	62.6	62.7	62.5
1988	62.6	62.1	61.7	62.9	62.5	62.5	62.7	63.0	63.2	63.2	62.9	63.0
Civilian employment-population ratio, black women												
1984	44.4	45.7	45.6	46.1	46.4	47.3	46.9	47.4	47.5	47.3	47.9	48.0
1985	48.3	47.5	48.2	48.5	48.0	48.6	47.9	47.8	47.7	48.1	48.0	48.6
1986	48.5	48.5	48.9	49.3	49.2	49.0	48.7	48.2	48.8	49.1	48.9	48.6
1987	48.8	49.5	49.3	49.6	50.0	50.4	50.7	51.2	50.4	51.3	51.3	51.4
1988	51.2	50.9	50.7	50.2	50.3	50.3	52.0	51.3	51.3	51.6	51.9	51.9
Civilian employment-population ratio, black workers, 16 to 19 years												
1984	18.6	20.8	19.3	21.2	20.0	24.3	23.1	22.9	22.8	23.5	23.1	23.3
1985	24.3	23.7	24.7	25.7	25.4	23.8	25.4	25.4	24.2	24.7	23.6	24.2
1986	24.8	25.7	25.7	26.1	26.2	26.4	24.0	22.3	24.4	25.8	24.6	24.6
1987	24.7	26.1	25.7	25.4	25.1	26.5	26.4	31.3	29.0	28.6	28.2	28.4
1988	26.5	25.1	24.7	26.6	27.2	28.1	28.7	28.5	28.4	28.5	28.6	29.4
Civilian employment-population ratio, black men, 16 to 19 years												
1984	20.7	21.3	22.8	23.6	23.9	25.5	24.5	24.6	25.4	24.1	25.0	24.6
1985	25.1	25.4	26.5	27.5	26.6	24.5	26.9	29.0	26.5	27.1	23.0	26.9
1986	26.0	28.1	26.8	27.5	28.9	26.8	25.3	24.7	25.8	25.7	25.2	26.1
1987	28.2	27.5	27.3	26.4	24.9	27.6	28.1	32.9	29.3	29.7	30.4	29.8
1988	28.2	24.2	24.0	29.3	30.1	30.5	31.4	30.6	30.4	30.9	31.0	31.1
Civilian employment-population ratio, black women, 16 to 19 years												
1984	16.7	20.4	16.0	18.9	16.3	23.1	21.8	21.3	20.4	22.9	21.2	22.0
1985	23.5	22.0	23.0	23.9	24.3	23.2	23.9	21.9	21.9	22.5	24.2	21.6
1986	23.6	23.4	24.6	24.8	23.7	26.1	22.8	19.9	23.1	25.9	24.0	23.0
1987	21.2	24.8	24.2	24.5	25.3	25.4	24.8	29.7	28.7	27.5	26.0	27.0
1988	24.9	25.9	25.5	24.0	24.3	25.8	26.0	26.5	26.5	26.2	26.2	27.7

6. Employment-population ratios by sex, age, race, and Hispanic origin—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Civilian employment-population ratio, black workers, 20 years and over												
1984	54.6	55.8	55.4	55.2	56.2	56.0	55.6	56.5	56.7	56.8	57.3	57.1
1985	57.1	56.6	56.8	57.0	56.8	57.4	56.7	57.1	56.9	56.9	56.7	57.4
1986	57.5	57.2	57.8	57.9	58.1	57.7	57.6	56.9	57.3	57.4	57.6	57.8
1987	57.9	58.3	58.3	58.5	58.6	58.9	59.4	59.4	59.0	59.7	59.8	59.7
1988	59.9	59.6	59.3	59.4	59.1	59.1	60.1	59.9	59.9	60.1	60.2	60.1
Civilian employment-population ratio, black men, 20 years and over												
1984	63.4	64.8	63.5	62.6	64.2	63.5	63.1	64.3	64.5	65.1	65.4	64.8
1985	64.6	64.4	64.2	64.1	64.4	65.0	64.5	65.3	64.9	64.4	64.4	64.6
1986	65.3	64.8	65.6	65.4	65.8	65.5	65.3	64.0	64.4	64.8	65.1	65.8
1987	65.5	66.0	66.2	66.2	66.0	66.2	66.8	66.7	66.8	67.0	67.0	66.8
1988	67.1	67.0	66.6	67.3	66.7	66.7	66.8	67.3	67.5	67.4	67.1	67.1
Civilian employment-population ratio, black women, 20 years and over												
1984	47.7	48.6	49.0	49.3	49.9	50.1	49.7	50.4	50.5	50.1	50.9	50.9
1985	51.2	50.4	51.0	51.3	50.7	51.5	50.6	50.7	50.6	50.9	50.6	51.6
1986	51.2	51.2	51.6	52.0	52.0	51.5	51.6	51.3	51.6	51.6	51.6	51.4
1987	51.7	52.1	52.0	52.3	52.7	53.1	53.5	53.5	52.7	53.8	54.0	54.0
1988	54.1	53.6	53.5	53.1	53.1	53.0	54.7	54.0	54.0	54.3	54.6	54.5
Civilian employment-population ratio, Hispanic-origin workers												
1984	57.1	57.1	57.3	56.8	57.9	58.4	58.3	58.1	58.4	58.1	58.5	59.1
1985	57.2	58.1	57.9	57.5	57.5	57.5	57.5	58.5	58.7	58.0	57.5	57.6
1986	57.4	57.1	58.0	58.1	58.1	58.6	58.9	58.5	58.7	59.0	59.6	59.4
1987	59.3	59.9	60.0	60.3	61.3	60.2	60.2	60.9	60.6	61.0	61.1	61.5
1988	62.5	62.7	61.3	60.7	61.3	61.8	61.9	61.4	62.4	62.2	62.4	62.4

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

7. Unemployed persons by sex, age, race, Hispanic origin, marital status, and full- or part-time status

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployed, all civilian workers												
1984	9,008	8,791	8,746	8,762	8,456	8,226	8,537	8,519	8,367	8,381	8,198	8,358
1985	8,442	8,311	8,334	8,403	8,301	8,432	8,500	8,172	8,260	8,307	8,146	8,154
1986	7,808	8,398	8,347	8,398	8,443	8,475	8,298	8,094	8,323	8,252	8,198	7,911
1987	7,904	7,848	7,804	7,605	7,578	7,360	7,271	7,226	7,112	7,204	7,067	6,961
1988	6,980	6,892	6,807	6,668	6,800	6,523	6,624	6,797	6,614	6,518	6,563	6,554
Unemployed men												
1984	5,127	4,951	4,901	4,897	4,669	4,546	4,719	4,634	4,659	4,547	4,518	4,629
1985	4,593	4,554	4,493	4,585	4,422	4,613	4,633	4,451	4,471	4,578	4,448	4,412
1986	4,219	4,555	4,530	4,560	4,649	4,636	4,612	4,455	4,664	4,576	4,558	4,444
1987	4,406	4,373	4,296	4,251	4,252	4,120	3,971	4,018	3,860	3,904	3,829	3,777
1988	3,799	3,702	3,777	3,596	3,737	3,542	3,520	3,754	3,589	3,593	3,612	3,583
Unemployed women												
1984	3,881	3,840	3,845	3,865	3,787	3,680	3,818	3,885	3,708	3,834	3,680	3,729
1985	3,849	3,757	3,841	3,818	3,879	3,819	3,867	3,721	3,789	3,729	3,698	3,742
1986	3,589	3,843	3,817	3,838	3,794	3,839	3,686	3,639	3,659	3,676	3,640	3,467
1987	3,498	3,475	3,508	3,354	3,326	3,240	3,300	3,208	3,252	3,300	3,238	3,184
1988	3,181	3,190	3,030	3,072	3,063	2,981	3,104	3,043	3,025	2,925	2,951	2,971
Unemployed both sexes, 16 to 19 years												
1984	1,551	1,543	1,568	1,537	1,483	1,480	1,510	1,461	1,523	1,459	1,390	1,495
1985	1,509	1,470	1,463	1,397	1,477	1,420	1,604	1,371	1,402	1,575	1,440	1,493
1986	1,402	1,488	1,442	1,542	1,498	1,536	1,444	1,424	1,464	1,408	1,446	1,359
1987	1,391	1,432	1,402	1,366	1,427	1,280	1,257	1,305	1,281	1,390	1,351	1,295
1988	1,306	1,243	1,293	1,256	1,243	1,149	1,227	1,253	1,253	1,194	1,122	1,179
Unemployed, men, 16 to 19 years												
1984	852	823	849	820	790	792	850	758	808	802	784	817
1985	813	811	774	766	791	779	887	797	772	893	797	795
1986	722	795	765	822	825	834	780	791	792	743	765	716
1987	757	779	764	769	809	680	631	759	695	710	715	716
1988	693	649	713	655	672	653	688	677	684	682	616	630
Unemployed, women, 16 to 19 years												
1984	699	720	719	717	693	688	660	703	715	657	606	678
1985	696	659	689	631	686	641	717	574	630	682	643	698
1986	680	693	677	720	673	702	664	633	672	665	681	643
1987	634	653	638	597	618	600	626	546	586	680	636	579
1988	613	594	580	601	571	496	539	576	569	512	506	549
Unemployed both sexes, 20 years and over												
1984	7,457	7,248	7,178	7,225	6,973	6,746	7,027	7,058	6,844	6,922	6,808	6,863
1985	6,933	6,841	6,871	7,006	6,824	7,012	6,896	6,801	6,858	6,732	6,706	6,661
1986	6,406	6,910	6,905	6,856	6,945	6,939	6,854	6,670	6,859	6,844	6,752	6,552
1987	6,513	6,416	6,402	6,239	6,151	6,080	6,014	5,921	5,831	5,814	5,716	5,666
1988	5,674	5,649	5,514	5,412	5,557	5,374	5,397	5,544	5,361	5,324	5,441	5,375
Unemployed men, 20 years and over												
1984	4,275	4,128	4,052	4,077	3,879	3,754	3,869	3,876	3,851	3,745	3,734	3,812
1985	3,780	3,743	3,719	3,819	3,631	3,834	3,746	3,654	3,699	3,685	3,651	3,617
1986	3,497	3,760	3,765	3,738	3,824	3,802	3,832	3,664	3,872	3,833	3,793	3,728
1987	3,649	3,594	3,532	3,482	3,443	3,440	3,340	3,259	3,165	3,194	3,114	3,061
1988	3,106	3,053	3,064	2,941	3,065	2,889	2,832	3,077	2,905	2,911	2,996	2,953
Unemployed women, 20 years and over												
1984	3,182	3,120	3,126	3,148	3,094	2,992	3,158	3,182	2,993	3,177	3,074	3,051
1985	3,153	3,098	3,152	3,187	3,193	3,178	3,150	3,147	3,159	3,047	3,055	3,044
1986	2,909	3,150	3,140	3,118	3,121	3,137	3,022	3,006	2,987	3,011	2,959	2,824
1987	2,864	2,822	2,870	2,757	2,708	2,640	2,674	2,662	2,666	2,620	2,602	2,605
1988	2,568	2,596	2,450	2,471	2,492	2,485	2,565	2,467	2,456	2,413	2,445	2,422

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

7. Unemployed persons by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployed both sexes, 20 to 24 years												
1984	2,006	1,869	1,885	1,944	1,786	1,740	1,797	1,885	1,825	1,780	1,757	1,782
1985	1,761	1,782	1,764	1,737	1,749	1,750	1,728	1,716	1,726	1,738	1,734	1,673
1986	1,644	1,697	1,655	1,667	1,713	1,647	1,645	1,599	1,743	1,631	1,548	1,641
1987	1,641	1,588	1,530	1,520	1,457	1,526	1,453	1,397	1,416	1,302	1,308	1,248
1988	1,350	1,288	1,319	1,262	1,270	1,245	1,238	1,223	1,204	1,235	1,241	1,242
Unemployed men, 20 to 24 years												
1984	1,137	1,043	1,044	1,094	937	992	986	1,060	1,066	954	956	994
1985	963	981	975	936	967	978	946	917	916	936	927	877
1986	870	879	916	933	928	895	901	848	992	862	868	909
1987	861	871	805	809	772	848	788	744	733	697	707	664
1988	755	691	690	666	680	649	643	674	645	694	658	650
Unemployed women, 20 to 24 years												
1984	869	826	841	850	849	748	811	825	759	826	801	788
1985	798	801	789	801	782	772	782	799	810	802	807	796
1986	774	818	739	734	785	752	744	751	751	769	680	732
1987	780	717	725	711	685	678	665	653	683	605	601	584
1988	595	597	629	596	590	596	595	549	559	541	583	592
Unemployed both sexes, 25 years and over												
1984	5,458	5,391	5,283	5,308	5,148	5,011	5,200	5,170	5,050	5,136	5,046	5,084
1985	5,194	5,075	5,088	5,291	5,028	5,269	5,136	5,101	5,171	4,980	4,962	4,981
1986	4,797	5,232	5,222	5,208	5,186	5,304	5,182	5,093	5,154	5,188	5,190	4,902
1987	4,921	4,848	4,847	4,724	4,654	4,558	4,539	4,543	4,446	4,483	4,397	4,400
1988	4,370	4,377	4,171	4,144	4,253	4,146	4,143	4,334	4,179	4,061	4,193	4,125
Unemployed men, 25 years and over												
1984	3,131	3,088	3,001	3,010	2,903	2,763	2,863	2,839	2,806	2,785	2,773	2,821
1985	2,823	2,767	2,737	2,905	2,613	2,861	2,783	2,764	2,805	2,736	2,717	2,732
1986	2,642	2,886	2,840	2,823	2,848	2,920	2,922	2,841	2,901	2,949	2,914	2,809
1987	2,814	2,729	2,719	2,678	2,630	2,605	2,550	2,536	2,447	2,472	2,398	2,387
1988	2,378	2,369	2,367	2,270	2,348	2,259	2,191	2,417	2,270	2,195	2,331	2,296
Unemployed women, 25 years and over												
1984	2,327	2,303	2,282	2,298	2,245	2,248	2,337	2,331	2,244	2,351	2,273	2,263
1985	2,371	2,308	2,351	2,386	2,415	2,408	2,353	2,337	2,366	2,244	2,245	2,249
1986	2,155	2,346	2,382	2,385	2,338	2,384	2,260	2,252	2,253	2,239	2,276	2,093
1987	2,107	2,119	2,128	2,046	2,024	1,953	1,989	2,007	1,999	2,011	1,999	2,013
1988	1,992	2,008	1,804	1,874	1,905	1,887	1,952	1,917	1,909	1,866	1,862	1,829
Unemployed both sexes, 25 to 54 years												
1984	4,775	4,721	4,641	4,651	4,505	4,315	4,581	4,514	4,393	4,448	4,353	4,434
1985	4,578	4,481	4,506	4,678	4,416	4,610	4,517	4,470	4,561	4,401	4,357	4,392
1986	4,229	4,595	4,612	4,631	4,676	4,723	4,631	4,498	4,550	4,591	4,592	4,391
1987	4,451	4,392	4,352	4,211	4,151	4,061	4,099	4,024	3,930	4,009	3,860	3,940
1988	3,861	3,887	3,742	3,696	3,765	3,675	3,702	3,828	3,733	3,651	3,739	3,687
Unemployed men, 25 to 54 years												
1984	2,717	2,670	2,579	2,597	2,511	2,384	2,488	2,415	2,378	2,380	2,360	2,411
1985	2,466	2,408	2,390	2,541	2,274	2,475	2,413	2,401	2,440	2,376	2,356	2,371
1986	2,318	2,511	2,469	2,471	2,545	2,555	2,598	2,448	2,514	2,564	2,556	2,444
1987	2,521	2,435	2,397	2,345	2,310	2,291	2,272	2,200	2,147	2,200	2,079	2,093
1988	2,056	2,071	2,071	1,994	2,051	1,961	1,936	2,088	2,014	1,946	2,050	1,999
Unemployed women, 25 to 54 years												
1984	2,058	2,051	2,062	2,054	1,994	1,931	2,093	2,099	2,015	2,068	1,993	2,023
1985	2,112	2,073	2,116	2,137	2,142	2,135	2,104	2,069	2,121	2,025	2,001	2,021
1986	1,911	2,084	2,143	2,160	2,131	2,168	2,033	2,050	2,036	2,027	2,036	1,947
1987	1,930	1,957	1,955	1,866	1,841	1,770	1,827	1,824	1,783	1,809	1,781	1,847
1988	1,805	1,816	1,671	1,702	1,714	1,714	1,766	1,740	1,719	1,705	1,689	1,688

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

7. Unemployed persons by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployed both sexes, 25 to 34 years												
1984	2,583	2,551	2,526	2,462	2,340	2,255	2,397	2,294	2,182	2,257	2,262	2,281
1985	2,361	2,327	2,281	2,425	2,334	2,356	2,331	2,334	2,423	2,340	2,320	2,278
1986	2,160	2,406	2,409	2,427	2,455	2,424	2,470	2,359	2,427	2,430	2,427	2,340
1987	2,377	2,270	2,227	2,189	2,192	2,092	2,085	2,053	1,986	1,959	1,967	2,074
1988	1,971	1,938	1,962	1,870	1,921	1,957	1,890	1,980	1,960	1,904	1,938	1,834
Unemployed men, 25 to 34 years												
1984	1,497	1,455	1,390	1,370	1,300	1,247	1,330	1,227	1,172	1,222	1,256	1,296
1985	1,270	1,250	1,218	1,314	1,211	1,248	1,229	1,242	1,297	1,235	1,210	1,203
1986	1,149	1,270	1,266	1,300	1,340	1,307	1,389	1,242	1,324	1,356	1,317	1,281
1987	1,337	1,247	1,213	1,200	1,196	1,185	1,128	1,122	1,066	1,100	1,054	1,100
1988	1,051	1,038	1,093	1,034	1,058	1,051	992	1,088	1,055	999	1,060	951
Unemployed women, 25 to 34 years												
1984	1,086	1,096	1,136	1,092	1,040	1,008	1,067	1,067	1,010	1,035	1,006	985
1985	1,091	1,077	1,063	1,111	1,123	1,108	1,102	1,092	1,126	1,105	1,110	1,075
1986	1,011	1,136	1,143	1,127	1,115	1,117	1,081	1,117	1,103	1,074	1,110	1,059
1987	1,040	1,023	1,014	989	996	907	957	931	920	859	913	974
1988	920	900	869	836	863	906	898	892	905	905	878	883
Unemployed both sexes, 35 to 44 years												
1984	1,330	1,335	1,307	1,379	1,322	1,305	1,341	1,412	1,380	1,365	1,260	1,297
1985	1,368	1,323	1,357	1,354	1,331	1,446	1,361	1,340	1,325	1,266	1,299	1,314
1986	1,257	1,423	1,398	1,409	1,400	1,424	1,358	1,351	1,349	1,395	1,416	1,318
1987	1,342	1,338	1,368	1,283	1,246	1,236	1,298	1,248	1,283	1,299	1,189	1,215
1988	1,223	1,262	1,181	1,166	1,208	1,096	1,161	1,200	1,097	1,107	1,117	1,156
Unemployed men, 35 to 44 years												
1984	742	744	723	775	745	742	742	776	757	721	650	631
1985	712	700	710	728	672	774	714	678	686	663	705	734
1986	727	821	755	717	741	782	752	775	762	793	800	745
1987	763	725	728	687	684	661	716	663	667	687	634	627
1988	626	644	635	630	655	567	596	640	588	584	596	626
Unemployed women, 35 to 44 years												
1984	588	591	584	604	577	563	599	636	623	644	610	666
1985	656	623	647	626	659	672	647	662	639	603	594	580
1986	530	602	643	692	659	642	606	576	587	602	616	573
1987	579	613	640	596	562	575	582	585	616	612	555	588
1988	597	618	546	536	553	529	565	560	509	523	521	530
Unemployed both sexes, 45 to 54 years												
1984	862	835	808	810	843	755	843	808	831	826	831	856
1985	849	831	868	899	751	808	825	796	813	795	738	800
1986	812	766	805	795	821	875	803	788	774	766	749	733
1987	732	784	757	739	713	733	716	723	661	751	704	651
1988	667	687	599	660	636	622	651	648	676	640	684	697
Unemployed men, 45 to 54 years												
1984	478	471	466	452	466	395	416	412	449	437	454	484
1985	484	458	462	499	391	453	470	481	457	478	441	434
1986	442	420	448	454	464	466	457	431	428	415	439	418
1987	421	463	456	458	430	445	428	415	414	413	391	366
1988	379	389	343	330	336	343	348	360	371	363	394	422
Unemployed women, 45 to 54 years												
1984	384	364	342	358	377	360	427	396	382	389	377	372
1985	365	373	406	400	360	355	355	315	356	317	297	366
1986	370	346	357	341	357	409	346	357	346	351	310	315
1987	311	321	301	281	283	288	288	308	247	338	313	285
1988	288	298	256	330	298	279	303	288	305	277	290	275

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

7. Unemployed persons by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployed both sexes, 55 years and over												
1984	707	660	646	656	669	689	853	676	644	887	647	614
1985	642	587	589	617	628	659	663	628	594	580	567	574
1986	589	635	618	582	533	574	583	575	587	608	589	512
1987	483	452	505	516	514	486	487	494	502	488	514	470
1988	516	485	443	460	498	450	457	475	436	419	433	457
Unemployed men, 55 years and over												
1984	439	409	412	407	411	385	406	418	416	396	398	386
1985	384	356	339	359	354	390	410	345	357	359	349	342
1986	347	376	365	349	323	357	357	370	378	393	352	345
1987	309	294	315	333	330	304	308	312	295	291	313	277
1988	335	297	296	281	304	278	278	298	255	266	275	286
Unemployed women, 55 years and over												
1984	268	251	234	249	258	304	247	258	228	291	249	228
1985	258	231	250	258	274	269	253	283	237	221	218	232
1986	242	259	253	233	210	217	226	205	209	213	217	167
1987	174	158	190	183	184	182	159	182	207	197	201	193
1988	181	188	147	179	194	172	179	177	181	153	158	171
Unemployed both sexes, 55 to 64 years												
1984	608	566	554	553	548	592	568	572	546	590	549	534
1985	540	504	494	515	540	564	556	534	514	487	476	484
1986	502	529	516	497	445	477	494	484	493	513	485	433
1987	414	373	424	442	444	430	392	395	411	412	428	383
1988	422	399	372	379	390	355	358	387	365	347	347	363
Unemployed men, 55 to 64 years												
1984	383	361	365	353	333	343	363	360	360	346	344	339
1985	318	305	280	307	306	337	343	301	309	301	290	288
1986	297	313	304	296	262	291	300	308	318	329	298	299
1987	270	240	260	278	285	272	260	243	248	250	264	223
1988	279	251	252	239	249	224	222	252	222	218	225	228
Unemployed women, 55 to 64 years												
1984	225	205	189	200	215	249	205	212	188	244	205	195
1985	222	199	214	208	234	227	213	233	205	186	188	196
1986	205	216	212	201	183	186	194	176	175	184	167	134
1987	144	133	164	164	159	158	132	152	163	162	164	160
1988	143	148	120	140	141	131	136	135	143	129	122	135
Unemployed both sexes, 65 years and over												
1984	99	94	92	103	121	97	85	104	98	97	98	80
1985	102	83	95	102	88	95	107	94	80	93	91	90
1986	87	106	102	85	88	97	89	91	94	93	84	79
1987	69	79	81	74	70	56	75	99	91	76	86	87
1988	94	86	71	81	108	95	99	88	71	72	86	94
Unemployed men, 65 years and over												
1984	56	48	47	54	78	42	43	58	56	50	54	47
1985	66	51	59	52	48	53	67	44	48	58	59	54
1986	50	63	61	53	61	86	57	62	60	64	54	46
1987	39	54	55	55	45	32	48	69	47	41	49	54
1988	56	46	44	42	55	54	56	46	33	48	50	58
Unemployed women, 65 years and over												
1984	43	46	45	49	43	55	42	46	42	47	44	33
1985	36	32	36	50	40	42	40	50	32	35	32	36
1986	37	43	41	32	27	31	32	29	34	29	30	33
1987	30	25	26	19	25	24	27	30	44	35	37	33
1988	38	40	27	39	53	41	43	42	38	24	36	36

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

7. Unemployed persons by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployed white workers												
1984	6,716	6,624	6,566	6,556	6,334	6,177	6,199	6,294	6,266	6,246	6,098	6,241
1985	6,315	6,140	6,206	6,273	6,153	6,463	6,324	6,177	6,109	6,168	5,929	6,036
1986	5,779	6,347	6,242	6,227	6,299	6,322	6,197	5,979	6,150	6,156	6,119	5,927
1987	5,894	5,827	5,784	5,663	5,584	5,497	5,333	5,325	5,248	5,364	5,208	5,120
1988	5,177	5,054	4,920	4,854	4,925	4,814	4,890	5,106	4,978	4,852	4,852	4,844
Unemployed white men												
1984	3,923	3,794	3,748	3,710	3,549	3,449	3,475	3,466	3,524	3,453	3,455	3,501
1985	3,487	3,435	3,387	3,475	3,324	3,632	3,543	3,439	3,348	3,439	3,305	3,301
1986	3,158	3,462	3,451	3,445	3,528	3,531	3,488	3,321	3,504	3,472	3,480	3,416
1987	3,384	3,357	3,317	3,249	3,197	3,175	2,993	3,015	2,933	3,047	2,914	2,857
1988	2,917	2,720	2,830	2,689	2,773	2,664	2,670	2,878	2,781	2,761	2,744	2,739
Unemployed white women												
1984	2,793	2,830	2,818	2,846	2,785	2,728	2,724	2,828	2,742	2,793	2,643	2,740
1985	2,828	2,705	2,819	2,798	2,829	2,831	2,781	2,738	2,761	2,729	2,624	2,735
1986	2,621	2,885	2,791	2,782	2,771	2,791	2,709	2,658	2,646	2,684	2,639	2,511
1987	2,510	2,470	2,467	2,414	2,387	2,322	2,340	2,310	2,315	2,317	2,294	2,263
1988	2,260	2,334	2,090	2,165	2,152	2,150	2,220	2,228	2,197	2,091	2,108	2,105
Unemployed white workers, 16 to 19 years												
1984	1,151	1,163	1,207	1,145	1,117	1,126	1,055	1,091	1,128	1,079	1,022	1,099
1985	1,103	1,062	1,075	1,023	1,093	1,071	1,123	1,035	1,012	1,161	1,040	1,085
1986	1,005	1,096	1,019	1,113	1,097	1,127	1,047	1,070	1,078	1,062	1,112	1,020
1987	1,027	1,046	1,057	1,005	1,074	963	906	981	956	1,003	981	938
1988	979	869	967	957	902	877	901	958	940	888	818	868
Unemployed white men, 16 to 19 years												
1984	656	608	656	613	602	601	620	558	603	589	590	600
1985	596	607	573	563	599	585	631	595	544	671	562	579
1986	518	583	544	599	605	628	558	589	590	559	594	542
1987	574	582	593	573	618	525	455	547	520	529	529	534
1988	527	441	555	514	494	481	515	501	521	512	446	477
Unemployed white women, 16 to 19 years												
1984	495	555	551	532	515	525	435	533	525	490	432	499
1985	507	455	502	460	494	486	492	440	468	490	478	506
1986	487	513	475	514	492	499	489	481	488	503	518	478
1987	453	464	464	432	456	438	451	434	436	474	452	404
1988	452	428	412	443	408	396	386	457	419	376	372	391
Unemployed white workers, 20 years and over												
1984	5,565	5,461	5,359	5,411	5,217	5,051	5,144	5,203	5,138	5,167	5,076	5,142
1985	5,212	5,078	5,131	5,250	5,060	5,392	5,201	5,142	5,097	5,007	4,889	4,951
1986	4,774	5,251	5,223	5,114	5,202	5,195	5,150	4,909	5,072	5,094	5,007	4,907
1987	4,867	4,781	4,727	4,658	4,510	4,534	4,427	4,344	4,292	4,361	4,227	4,182
1988	4,198	4,185	3,953	3,897	4,023	3,937	3,989	4,148	4,038	3,964	4,034	3,976
Unemployed white men, 20 years and over												
1984	3,267	3,186	3,092	3,097	2,947	2,848	2,855	2,908	2,921	2,864	2,865	2,901
1985	2,891	2,828	2,814	2,912	2,725	3,047	2,912	2,844	2,804	2,768	2,743	2,722
1986	2,640	2,879	2,907	2,846	2,923	2,903	2,930	2,732	2,914	2,913	2,886	2,874
1987	2,810	2,775	2,724	2,676	2,579	2,650	2,538	2,468	2,413	2,518	2,385	2,323
1988	2,390	2,279	2,275	2,175	2,279	2,183	2,155	2,377	2,260	2,249	2,298	2,262
Unemployed white women, 20 years and over												
1984	2,298	2,275	2,267	2,314	2,270	2,203	2,289	2,295	2,217	2,303	2,211	2,241
1985	2,321	2,250	2,317	2,338	2,335	2,345	2,289	2,298	2,293	2,239	2,146	2,229
1986	2,134	2,372	2,316	2,268	2,279	2,292	2,220	2,177	2,158	2,181	2,121	2,033
1987	2,057	2,006	2,003	1,982	1,931	1,884	1,889	1,876	1,879	1,843	1,842	1,859
1988	1,808	1,906	1,678	1,722	1,744	1,754	1,834	1,771	1,778	1,715	1,736	1,714

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

7. Unemployed persons by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployed black workers												
1984	2,023	1,919	1,963	1,959	1,871	1,871	2,021	1,955	1,812	1,871	1,836	1,871
1985	1,867	1,943	1,855	1,859	1,873	1,780	1,877	1,757	1,880	1,862	1,946	1,892
1986	1,822	1,814	1,838	1,864	1,843	1,933	1,802	1,855	1,890	1,864	1,833	1,750
1987	1,810	1,789	1,750	1,637	1,734	1,675	1,667	1,646	1,637	1,622	1,619	1,621
1988	1,604	1,634	1,639	1,567	1,588	1,523	1,522	1,503	1,443	1,483	1,499	1,549
Unemployed black men												
1984	1,047	1,009	1,055	1,051	973	1,009	1,081	1,004	950	958	905	979
1985	956	987	947	948	929	895	951	866	967	993	995	979
1986	951	936	949	945	933	975	956	953	992	974	925	875
1987	901	860	837	819	889	824	836	831	773	755	784	793
1988	782	843	832	763	799	755	738	748	707	753	759	760
Unemployed black women												
1984	976	910	908	908	898	862	940	951	862	913	931	892
1985	911	956	908	911	944	885	926	891	913	869	951	913
1986	871	878	889	919	910	958	846	902	898	890	908	875
1987	909	929	913	818	845	851	831	815	864	867	835	828
1988	822	791	807	804	789	768	784	755	736	730	740	789
Unemployed black workers, 16 to 19 years												
1984	360	343	346	359	336	330	363	373	365	356	355	355
1985	367	372	353	341	354	344	386	321	344	372	367	376
1986	366	345	388	386	358	391	332	338	346	318	299	310
1987	332	330	313	316	316	312	287	292	284	329	317	316
1988	299	318	301	258	304	271	291	294	290	278	281	269
Unemployed black men, 16 to 19 years												
1984	185	195	188	189	178	174	186	192	184	198	188	199
1985	208	187	184	182	173	189	212	180	198	200	210	198
1986	189	183	203	194	196	188	188	173	177	168	148	160
1987	168	167	158	171	166	141	148	176	147	151	157	166
1988	159	172	157	122	161	151	153	156	153	162	158	142
Unemployed black women, 16 to 19 years												
1984	175	148	158	170	158	156	177	181	181	158	167	156
1985	159	185	169	159	181	155	174	141	146	172	157	178
1986	177	162	185	192	162	203	144	165	169	150	151	150
1987	164	163	155	145	150	171	139	116	137	178	160	150
1988	140	146	144	136	143	120	138	138	137	116	123	127
Unemployed black workers, 20 years and over												
1984	1,663	1,576	1,617	1,600	1,535	1,541	1,658	1,582	1,447	1,515	1,481	1,516
1985	1,500	1,571	1,502	1,518	1,519	1,436	1,491	1,436	1,536	1,490	1,579	1,516
1986	1,456	1,469	1,450	1,478	1,485	1,542	1,470	1,517	1,544	1,546	1,534	1,440
1987	1,478	1,459	1,437	1,321	1,418	1,363	1,380	1,354	1,353	1,293	1,302	1,305
1988	1,305	1,316	1,338	1,309	1,284	1,252	1,231	1,209	1,153	1,205	1,218	1,280
Unemployed black men, 20 years and over												
1984	862	814	867	862	795	835	895	812	766	760	717	780
1985	748	800	763	766	756	706	739	686	769	793	785	781
1986	762	753	746	751	737	787	768	780	815	806	777	715
1987	733	693	679	648	723	683	688	655	626	604	627	627
1988	623	671	675	641	638	604	585	592	554	591	601	618
Unemployed black women, 20 years and over												
1984	801	762	750	738	740	706	763	770	681	755	764	736
1985	752	771	739	752	763	730	752	750	767	697	794	735
1986	694	716	704	727	748	755	702	737	729	740	757	725
1987	745	766	758	673	695	680	692	699	727	689	675	678
1988	682	645	663	668	646	648	646	617	599	614	617	662

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

7. Unemployed persons by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployed Hispanic-origin workers												
1984	829	747	848	850	786	772	780	804	794	814	772	799
1985	797	733	798	788	802	815	866	811	815	871	827	812
1986	792	932	841	822	863	856	878	896	907	855	770	876
1987	881	809	768	761	737	715	692	689	713	727	777	725
1988	663	746	730	793	782	787	732	749	683	707	729	692
Unemployed married men, spouse present												
1984	2,013	1,976	1,934	1,936	1,879	1,843	1,846	1,873	1,895	1,849	1,811	1,835
1985	1,857	1,803	1,742	1,770	1,628	1,858	1,772	1,744	1,818	1,701	1,735	1,758
1986	1,759	1,824	1,833	1,773	1,859	1,864	1,847	1,767	1,812	1,871	1,831	1,813
1987	1,738	1,720	1,703	1,734	1,661	1,683	1,618	1,563	1,559	1,551	1,466	1,439
1988	1,464	1,416	1,409	1,294	1,365	1,323	1,280	1,440	1,316	1,302	1,360	1,303
Unemployed married women, spouse present												
1984	1,582	1,575	1,544	1,568	1,565	1,546	1,574	1,604	1,565	1,597	1,507	1,524
1985	1,571	1,455	1,606	1,620	1,578	1,640	1,566	1,506	1,622	1,525	1,534	1,508
1986	1,424	1,514	1,559	1,502	1,552	1,539	1,512	1,463	1,468	1,446	1,413	1,370
1987	1,357	1,371	1,311	1,312	1,260	1,224	1,225	1,238	1,228	1,226	1,235	1,295
1988	1,221	1,205	1,190	1,143	1,174	1,156	1,190	1,199	1,133	1,110	1,138	1,111
Unemployed women who maintain families												
1984	646	643	658	642	611	607	623	618	591	626	660	604
1985	629	674	636	683	676	617	659	675	695	640	625	606
1986	624	631	645	612	640	637	610	658	647	581	655	654
1987	636	627	640	614	628	639	619	614	597	601	583	556
1988	593	557	502	566	547	525	571	511	548	541	533	571
Unemployed full-time workers												
1984	7,526	7,272	7,288	7,316	6,985	6,617	7,000	7,007	6,892	6,987	6,789	6,898
1985	6,931	6,863	6,785	6,851	6,710	6,815	6,933	6,738	6,769	6,753	6,710	6,664
1986	6,423	6,818	6,854	6,823	6,913	6,820	6,722	6,558	6,815	6,725	6,646	6,454
1987	6,430	6,382	6,231	6,110	6,039	6,043	5,895	5,814	5,664	5,756	5,655	5,562
1988	5,550	5,526	5,473	5,338	5,413	5,163	5,215	5,491	5,293	5,176	5,273	5,317
Unemployed full-time workers, both sexes, 16 to 19 years												
1984	839	823	868	842	776	768	790	774	836	808	837	831
1985	835	791	740	693	748	738	864	754	758	849	773	787
1986	744	743	729	785	773	770	747	718	724	684	698	679
1987	672	713	693	642	682	640	618	628	628	666	652	608
1988	637	593	630	603	573	554	534	627	609	571	544	630
Unemployed full-time workers, men, 20 years and over												
1984	4,027	3,871	3,810	3,849	3,635	3,461	3,625	3,641	3,623	3,507	3,478	3,564
1985	3,553	3,505	3,503	3,562	3,387	3,554	3,499	3,422	3,487	3,440	3,428	3,401
1986	3,302	3,543	3,542	3,495	3,571	3,524	3,589	3,414	3,595	3,570	3,551	3,462
1987	3,424	3,368	3,274	3,266	3,198	3,205	3,129	3,034	2,946	2,991	2,913	2,866
1988	2,877	2,838	2,864	2,751	2,827	2,659	2,639	2,907	2,714	2,705	2,777	2,735
Unemployed full-time workers, women, 20 years and over												
1984	2,660	2,578	2,610	2,625	2,574	2,388	2,585	2,592	2,433	2,672	2,474	2,503
1985	2,543	2,567	2,542	2,596	2,575	2,523	2,570	2,562	2,524	2,464	2,509	2,476
1986	2,377	2,532	2,583	2,543	2,569	2,526	2,386	2,426	2,496	2,471	2,397	2,313
1987	2,334	2,301	2,264	2,202	2,159	2,198	2,148	2,152	2,090	2,099	2,090	2,088
1988	2,036	2,095	1,979	1,984	2,013	1,950	2,042	1,957	1,970	1,900	1,952	1,952
Unemployed part-time workers												
1984	1,503	1,498	1,469	1,450	1,465	1,548	1,535	1,527	1,482	1,421	1,400	1,467
1985	1,542	1,437	1,557	1,558	1,578	1,554	1,560	1,459	1,496	1,560	1,429	1,506
1986	1,419	1,575	1,505	1,567	1,500	1,600	1,580	1,556	1,524	1,526	1,545	1,471
1987	1,510	1,473	1,591	1,483	1,505	1,277	1,375	1,424	1,446	1,433	1,408	1,421
1988	1,458	1,379	1,350	1,311	1,342	1,341	1,419	1,313	1,328	1,308	1,291	1,258

7. Unemployed persons by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(In thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployed part-time workers, both sexes, 16 to 19 years												
1984	721	697	705	684	692	716	703	708	696	648	555	672
1985	688	663	723	691	713	695	734	637	651	718	662	713
1986	671	737	710	741	706	788	703	720	741	710	742	685
1987	731	719	700	707	722	667	653	685	651	707	695	696
1988	680	651	654	639	643	623	715	630	637	603	577	561
Unemployed part-time workers, men, 20 years and over												
1984	260	260	242	241	250	267	245	238	227	236	251	248
1985	242	240	216	269	241	249	250	238	215	242	223	215
1986	211	219	228	250	241	246	242	259	271	260	241	263
1987	246	229	271	219	229	206	211	234	218	205	198	190
1988	247	220	212	187	218	213	192	179	193	204	217	213
Unemployed part-time workers, women, 20 years and over												
1984	522	541	522	525	523	565	587	581	559	537	594	547
1985	612	534	618	598	624	610	576	584	630	600	544	578
1986	537	619	567	576	553	566	635	577	512	556	562	523
1987	533	525	620	557	554	404	511	505	577	521	515	535
1988	531	508	484	485	481	505	512	504	498	501	497	484

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

8. Unemployed persons by reason for and duration of unemployment

(Numbers in thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployed job losers												
1984	4,823	4,736	4,604	4,521	4,335	4,245	4,484	4,248	4,193	4,287	4,157	4,250
1985	4,290	4,221	4,127	4,228	3,895	4,103	4,330	4,174	4,143	4,040	4,100	4,012
1986	3,778	4,131	4,184	4,048	4,186	4,266	4,067	3,881	4,066	3,997	3,945	3,910
1987	3,942	3,813	3,785	3,763	3,578	3,561	3,536	3,381	3,311	3,437	3,310	3,192
1988	3,181	3,182	3,131	2,968	3,201	3,070	3,085	3,112	3,079	2,951	3,031	3,066
Unemployed job losers on layoff												
1984	1,223	1,237	1,230	1,136	1,186	1,177	1,180	1,196	1,133	1,165	1,057	1,090
1985	1,177	1,191	1,131	1,240	1,065	1,150	1,143	1,156	1,200	1,151	1,163	1,128
1986	1,108	1,133	1,128	1,088	1,139	1,087	1,085	1,037	1,053	1,065	1,062	1,070
1987	1,073	993	988	991	932	916	915	865	834	943	888	863
1988	872	877	882	844	806	861	853	880	833	844	814	819
Unemployed job leavers												
1984	795	780	782	796	818	804	831	845	850	828	878	870
1985	859	855	850	844	886	993	884	882	850	929	814	894
1986	968	981	980	1,099	1,007	1,024	1,023	976	1,027	1,014	1,072	1,026
1987	880	1,040	985	948	944	966	1,007	989	978	959	941	946
1988	1,046	969	1,059	985	942	953	923	986	985	984	963	998
Unemployed reentrants												
1984	2,199	2,163	2,182	2,288	2,136	2,020	2,141	2,280	2,259	2,146	2,174	2,250
1985	2,248	2,212	2,304	2,303	2,354	2,284	2,185	2,137	2,374	2,220	2,204	2,246
1986	2,077	2,246	2,198	2,223	2,186	2,130	2,215	2,158	2,169	2,204	2,090	2,016
1987	2,050	2,010	2,118	1,981	2,008	2,005	1,917	1,948	1,913	1,811	1,968	1,963
1988	1,907	1,916	1,792	1,804	1,804	1,747	1,883	1,843	1,767	1,747	1,766	1,725
Unemployed new entrants												
1984	1,176	1,092	1,188	1,174	1,138	1,144	1,128	1,134	1,068	1,062	1,013	1,015
1985	1,031	1,014	1,071	1,037	1,119	1,038	1,157	984	927	1,040	1,043	1,026
1986	997	1,041	994	1,038	1,032	1,098	1,044	1,054	1,054	945	1,079	986
1987	1,041	1,000	941	893	1,005	865	863	862	895	932	846	900
1988	870	855	871	886	811	800	799	800	761	747	799	799
Unemployed less than 5 weeks												
1984	3,309	3,327	3,335	3,362	3,167	3,261	3,392	3,567	3,325	3,423	3,392	3,371
1985	3,675	3,476	3,521	3,489	3,496	3,533	3,553	3,432	3,494	3,424	3,464	3,400
1986	3,354	3,527	3,546	3,582	3,565	3,478	3,434	3,434	3,402	3,410	3,347	3,330
1987	3,396	3,353	3,398	3,161	3,303	3,159	3,204	3,173	3,201	3,213	3,178	3,225
1988	3,118	3,097	3,057	3,093	3,072	3,093	2,985	3,158	3,116	3,059	3,117	3,029
Unemployed 5 to 14 weeks												
1984	2,532	2,485	2,501	2,459	2,387	2,273	2,472	2,415	2,558	2,392	2,356	2,578
1985	2,553	2,452	2,444	2,498	2,557	2,513	2,546	2,515	2,566	2,537	2,457	2,537
1986	2,442	2,557	2,572	2,676	2,683	2,693	2,530	2,398	2,636	2,577	2,630	2,423
1987	2,452	2,398	2,376	2,265	2,125	2,164	2,125	2,151	2,030	2,132	2,067	1,981
1988	2,214	2,093	2,060	1,969	2,068	1,910	2,041	1,956	1,896	1,835	1,935	2,039
Unemployed 15 weeks and over												
1984	3,254	2,991	2,881	2,858	2,884	2,612	2,638	2,604	2,538	2,526	2,438	2,401
1985	2,290	2,402	2,381	2,399	2,289	2,302	2,324	2,251	2,244	2,299	2,213	2,216
1986	2,104	2,322	2,229	2,163	2,220	2,297	2,267	2,272	2,325	2,200	2,230	2,182
1987	2,183	2,118	2,027	2,114	2,079	2,062	1,927	1,875	1,873	1,799	1,833	1,781
1988	1,728	1,732	1,693	1,582	1,614	1,543	1,619	1,636	1,568	1,554	1,502	1,495
Unemployed 15 to 26 weeks												
1984	1,214	1,157	1,101	1,094	1,193	1,036	1,048	1,089	1,087	1,099	1,016	1,008
1985	964	1,057	1,033	1,017	1,053	1,027	1,065	1,031	1,015	1,101	913	1,008
1986	1,007	1,137	1,057	983	1,055	1,029	1,065	1,081	1,098	988	1,050	1,029
1987	1,023	1,004	909	1,027	984	996	952	823	898	847	889	881
1988	838	842	851	756	789	749	826	831	775	788	787	758
Unemployed 27 weeks and over												
1984	2,040	1,834	1,780	1,764	1,691	1,576	1,590	1,515	1,451	1,427	1,422	1,393
1985	1,326	1,345	1,348	1,382	1,236	1,275	1,259	1,220	1,229	1,198	1,300	1,208
1986	1,097	1,185	1,172	1,180	1,165	1,268	1,202	1,191	1,227	1,212	1,180	1,153
1987	1,160	1,114	1,118	1,087	1,095	1,066	975	1,052	975	952	944	900
1988	890	890	842	826	825	794	793	805	793	766	715	737

8. Unemployed persons by reason for and duration of unemployment—Continued

(Numbers in thousands)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Average duration in weeks												
1984	20.4	19.0	19.1	18.9	18.8	18.1	18.0	17.3	17.0	16.7	17.0	16.8
1985	15.8	15.9	16.2	16.4	15.3	15.5	15.5	15.3	15.3	15.3	15.7	15.2
1986	14.9	15.2	14.6	14.8	14.7	15.2	15.2	15.5	15.4	15.2	15.0	15.0
1987	14.9	14.5	15.0	15.0	14.8	14.9	14.2	14.3	14.2	14.0	14.1	14.2
1988	14.2	14.1	13.8	13.5	13.8	13.2	13.5	13.5	13.5	13.4	12.6	12.8
Median duration in weeks												
1984	9.1	8.3	8.3	8.2	9.1	7.5	7.5	7.3	7.6	7.2	7.2	7.3
1985	6.8	7.1	7.0	6.9	6.9	6.6	7.0	7.2	6.9	7.1	7.0	6.8
1986	6.7	6.9	6.8	6.6	6.9	7.1	7.0	7.1	7.3	7.1	7.1	7.1
1987	6.9	6.6	6.6	7.0	6.6	6.6	6.6	6.4	6.0	6.3	6.2	5.9
1988	6.3	6.3	6.4	5.8	5.9	5.9	6.2	5.9	5.7	5.7	5.6	5.8

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

9. Unemployment rates by sex, age, race, Hispanic origin, marital status, and full- or part-time status

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployment rate, including resident Armed Forces, total												
1984	7.9	7.7	7.6	7.6	7.3	7.1	7.4	7.4	7.2	7.2	7.1	7.2
1985	7.3	7.1	7.1	7.2	7.1	7.2	7.3	7.0	7.0	7.1	6.9	6.9
1986	6.6	7.1	7.0	7.1	7.1	7.1	6.9	6.8	6.9	6.9	6.8	6.6
1987	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.9	5.8	5.7
1988	5.7	5.6	5.5	5.4	5.5	5.3	5.4	5.5	5.3	5.3	5.3	5.3
Unemployment rate, including resident Armed Forces, men												
1984	7.9	7.6	7.5	7.5	7.2	6.9	7.2	7.1	7.1	6.9	6.9	7.0
1985	7.0	6.9	6.8	7.0	6.7	7.0	7.0	6.7	6.8	6.9	6.7	6.7
1986	6.3	6.8	6.8	6.8	7.0	6.9	6.9	6.7	6.9	6.8	6.8	6.6
1987	6.5	6.5	6.4	6.3	6.3	6.1	5.9	5.9	5.7	5.7	5.6	5.5
1988	5.6	5.4	5.5	5.3	5.5	5.2	5.1	5.5	5.2	5.2	5.3	5.2
Unemployment rate, including resident Armed Forces, women												
1984	7.9	7.8	7.8	7.8	7.6	7.4	7.6	7.8	7.4	7.6	7.3	7.4
1985	7.6	7.4	7.5	7.5	7.6	7.5	7.6	7.3	7.4	7.2	7.2	7.2
1986	6.9	7.4	7.3	7.3	7.2	7.3	7.0	6.9	6.9	6.9	6.9	6.6
1987	6.6	6.5	6.6	6.3	6.2	6.0	6.1	5.9	6.0	6.1	6.0	5.9
1988	5.8	5.8	5.6	5.6	5.6	5.4	5.7	5.5	5.5	5.3	5.3	5.3
Unemployment rate, all civilian workers												
1984	8.0	7.8	7.8	7.7	7.4	7.2	7.5	7.5	7.3	7.4	7.2	7.3
1985	7.4	7.2	7.2	7.3	7.2	7.3	7.4	7.1	7.1	7.2	7.0	7.0
1986	6.7	7.2	7.1	7.2	7.2	7.2	7.0	6.9	7.0	7.0	6.9	6.7
1987	6.6	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	6.0	5.9	5.8
1988	5.8	5.7	5.6	5.5	5.6	5.4	5.4	5.6	5.4	5.3	5.4	5.3
Unemployment rate, men												
1984	8.1	7.8	7.7	7.7	7.3	7.1	7.4	7.3	7.3	7.1	7.0	7.2
1985	7.2	7.1	7.0	7.1	6.9	7.2	7.2	6.9	6.9	7.1	6.9	6.8
1986	6.5	7.0	6.9	7.0	7.1	7.1	7.0	6.8	7.1	7.0	6.9	6.7
1987	6.7	6.6	6.5	6.4	6.4	6.2	6.0	6.1	5.8	5.9	5.8	5.7
1988	5.7	5.5	5.7	5.4	5.6	5.3	5.3	5.6	5.4	5.4	5.4	5.3
Unemployment rate, women												
1984	7.9	7.8	7.8	7.8	7.6	7.4	7.6	7.8	7.4	7.7	7.4	7.4
1985	7.6	7.4	7.5	7.5	7.6	7.5	7.6	7.3	7.4	7.3	7.2	7.2
1986	7.0	7.4	7.3	7.4	7.3	7.3	7.0	6.9	6.9	6.9	6.9	6.6
1987	6.6	6.5	6.6	6.3	6.2	6.0	6.1	5.9	6.0	6.1	6.0	5.9
1988	5.8	5.9	5.6	5.6	5.6	5.5	5.7	5.5	5.5	5.3	5.3	5.4
Unemployment rate, both sexes, 16 to 19 years												
1984	19.5	19.4	19.8	19.2	18.7	18.2	18.8	18.7	19.2	18.6	17.7	18.8
1985	18.8	18.3	18.2	17.5	18.5	18.5	20.0	17.7	17.9	20.0	18.3	19.1
1986	18.2	18.9	18.1	19.1	18.7	19.2	18.3	18.0	18.4	17.7	18.3	17.5
1987	17.6	18.0	17.7	17.2	17.6	16.3	16.0	15.9	16.2	17.2	16.8	16.0
1988	16.0	15.5	16.4	15.8	15.6	14.1	15.1	15.4	15.5	15.0	14.1	14.8
Unemployment rate, men, 16 to 19 years												
1984	20.8	19.9	20.3	19.8	19.1	18.6	20.5	18.8	19.6	19.6	18.9	19.6
1985	19.3	19.5	18.5	18.2	18.9	19.0	21.1	19.5	19.0	21.7	19.7	19.6
1986	18.3	19.5	18.8	19.7	19.7	20.1	18.9	19.2	19.1	18.1	18.6	18.1
1987	18.5	18.7	18.7	18.8	19.6	16.9	15.8	17.9	17.0	17.1	17.4	17.1
1988	16.5	15.8	17.4	15.9	16.3	15.4	16.3	16.0	16.4	16.5	14.8	15.4
Unemployment rate, women, 16 to 19 years												
1984	18.1	18.8	19.2	18.7	18.2	17.8	16.9	18.6	18.7	17.4	16.4	18.0
1985	18.2	17.1	17.9	16.8	18.1	18.0	18.9	15.7	16.8	18.1	16.9	18.5
1986	18.1	18.2	17.4	18.5	17.5	18.2	17.6	16.7	17.8	17.2	17.9	16.9
1987	16.7	17.2	16.6	15.5	15.5	15.7	16.1	13.8	15.3	17.3	16.2	14.8
1988	15.6	15.1	15.2	15.6	15.0	12.6	13.8	14.8	14.5	13.3	13.3	14.2

9. Unemployment rates by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployment rate, both sexes, 20 years and over												
1984	7.2	6.9	6.9	6.9	6.6	6.4	6.6	6.7	6.5	6.5	6.4	6.4
1985	6.5	6.4	6.4	6.5	6.4	6.5	6.4	6.3	6.3	6.2	6.2	6.1
1986	5.9	6.3	6.3	6.3	6.3	6.3	6.2	6.1	6.2	6.2	6.1	5.9
1987	5.9	5.8	5.7	5.6	5.5	5.4	5.4	5.3	5.2	5.2	5.1	5.0
1988	5.0	5.0	4.9	4.8	4.9	4.7	4.8	4.9	4.7	4.7	4.7	4.7
Unemployment rate, men, 20 years and over												
1984	7.2	7.0	6.8	6.9	6.5	6.3	6.5	6.5	6.4	6.2	6.2	6.3
1985	6.3	6.2	6.2	6.3	6.0	6.4	6.2	6.1	6.1	6.1	6.0	6.0
1986	5.7	6.2	6.2	6.1	6.3	6.2	6.2	6.0	6.3	6.2	6.1	6.0
1987	5.9	5.8	5.7	5.6	5.5	5.5	5.4	5.3	5.1	5.1	5.0	4.9
1988	5.0	4.9	4.9	4.7	4.9	4.6	4.5	4.9	4.6	4.6	4.8	4.7
Unemployment rate, women, 20 years and over												
1984	7.1	6.9	6.9	6.9	6.7	6.5	6.8	6.9	6.5	6.9	6.6	6.6
1985	6.7	6.6	6.7	6.8	6.8	6.7	6.7	6.7	6.6	6.4	6.4	6.4
1986	6.1	6.6	6.5	6.5	6.4	6.4	6.2	6.1	6.1	6.1	6.0	5.8
1987	5.8	5.7	5.8	5.6	5.4	5.3	5.4	5.3	5.3	5.2	5.2	5.2
1988	5.1	5.1	4.9	4.9	4.9	4.9	5.0	4.8	4.8	4.7	4.7	4.7
Unemployment rate, both sexes, 20 to 24 years												
1984	12.5	11.7	11.8	12.1	11.1	10.7	11.2	11.8	11.4	11.1	10.9	11.1
1985	11.1	11.3	11.2	11.0	11.1	11.1	11.0	11.0	11.0	11.1	11.1	10.7
1986	10.6	10.8	10.6	10.8	11.1	10.7	10.7	10.4	11.3	10.7	10.1	10.7
1987	10.7	10.4	10.1	10.1	9.7	10.2	9.7	9.4	9.5	8.8	8.9	8.6
1988	9.1	8.7	9.0	8.7	8.8	8.5	8.5	8.4	8.4	8.6	8.7	8.7
Unemployment rate, men, 20 to 24 years												
1984	13.2	12.2	12.1	12.6	10.9	11.3	11.5	12.4	12.4	11.2	11.1	11.6
1985	11.5	11.7	11.8	11.3	11.6	11.8	11.5	11.1	11.1	11.4	11.2	10.7
1986	10.5	10.6	11.1	11.4	11.5	11.0	11.1	10.5	12.2	10.7	10.7	11.2
1987	10.7	10.8	10.1	10.2	9.8	10.8	10.0	9.5	9.4	9.1	9.2	8.8
1988	9.8	9.0	9.0	8.7	8.9	8.5	8.5	8.9	8.5	9.2	8.8	8.7
Unemployment rate, women, 20 to 24 years												
1984	11.7	11.1	11.3	11.5	11.3	10.0	10.8	11.2	10.3	11.0	10.7	10.5
1985	10.6	10.7	10.6	10.7	10.5	10.4	10.5	10.8	10.9	10.7	10.9	10.7
1986	10.6	11.1	10.1	10.0	10.7	10.3	10.2	10.3	10.3	10.6	9.4	10.2
1987	10.7	9.9	10.0	9.9	9.5	9.5	9.3	9.2	9.6	8.6	8.6	8.4
1988	8.4	8.5	9.0	8.6	8.6	8.6	8.6	8.0	8.2	7.9	8.6	8.7
Unemployment rate, both sexes, 25 years and over												
1984	6.2	6.1	5.9	6.0	5.7	5.6	5.8	5.7	5.6	5.7	5.6	5.6
1985	5.7	5.6	5.6	5.8	5.5	5.7	5.6	5.5	5.6	5.4	5.4	5.4
1986	5.1	5.6	5.6	5.6	5.5	5.6	5.5	5.4	5.4	5.5	5.4	5.1
1987	5.1	5.1	5.0	4.9	4.8	4.7	4.7	4.7	4.6	4.6	4.5	4.5
1988	4.5	4.4	4.2	4.2	4.3	4.2	4.2	4.4	4.2	4.1	4.2	4.1
Unemployment rate, men, 25 years and over												
1984	6.2	6.1	5.9	5.9	5.7	5.4	5.6	5.5	5.5	5.4	5.4	5.5
1985	5.5	5.4	5.3	5.6	5.0	5.5	5.4	5.3	5.4	5.2	5.2	5.2
1986	5.0	5.5	5.4	5.3	5.4	5.5	5.5	5.3	5.4	5.5	5.4	5.2
1987	5.2	5.1	5.0	5.0	4.8	4.8	4.7	4.7	4.5	4.5	4.4	4.4
1988	4.3	4.3	4.3	4.1	4.3	4.1	4.0	4.4	4.1	4.0	4.2	4.1
Unemployment rate, women, 25 years and over												
1984	6.2	6.1	6.0	6.0	5.8	5.8	6.0	6.0	5.8	6.1	5.9	5.8
1985	6.0	5.9	5.9	6.0	6.1	6.1	5.9	5.9	5.9	5.6	5.6	5.6
1986	5.3	5.8	5.8	5.8	5.7	5.7	5.4	5.4	5.4	5.4	5.5	5.0
1987	5.0	5.0	5.0	4.8	4.8	4.6	4.6	4.7	4.7	4.7	4.6	4.6
1988	4.6	4.6	4.1	4.3	4.4	4.3	4.4	4.3	4.3	4.2	4.2	4.1

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

9. Unemployment rates by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployment rate, both sexes, 25 to 54 years												
1984	6.5	6.4	6.3	6.3	6.0	5.8	6.1	6.0	5.9	5.9	5.8	5.9
1985	6.0	5.9	5.9	6.1	5.8	6.0	5.9	5.8	5.9	5.7	5.6	5.6
1986	5.4	5.9	5.9	5.9	5.9	5.9	5.8	5.6	5.7	5.7	5.7	5.4
1987	5.5	5.4	5.4	5.2	5.1	5.0	5.0	4.9	4.8	4.9	4.7	4.8
1988	4.6	4.7	4.5	4.4	4.5	4.4	4.4	4.5	4.4	4.3	4.4	4.3
Unemployment rate, men, 25 to 54 years												
1984	6.5	6.4	6.1	6.2	6.0	5.6	5.9	5.7	5.6	5.6	5.5	5.6
1985	5.8	5.6	5.6	5.9	5.3	5.7	5.6	5.5	5.6	5.5	5.4	5.4
1986	5.3	5.7	5.6	5.6	5.8	5.8	5.8	5.5	5.6	5.7	5.7	5.4
1987	5.6	5.4	5.3	5.2	5.1	5.1	5.0	4.8	4.7	4.8	4.6	4.6
1988	4.5	4.5	4.5	4.3	4.4	4.2	4.2	4.5	4.3	4.2	4.4	4.3
Unemployment rate, women, 25 to 54 years												
1984	6.5	6.5	6.5	6.4	6.1	6.0	6.4	6.4	6.2	6.3	6.1	6.1
1985	6.4	6.2	6.3	6.4	6.4	6.3	6.2	6.1	6.2	5.9	5.9	5.9
1986	5.5	6.0	6.2	6.2	6.1	6.2	5.8	5.8	5.7	5.7	5.7	5.4
1987	5.4	5.4	5.4	5.1	5.0	4.9	5.0	5.0	4.9	4.9	4.8	5.0
1988	4.9	4.9	4.5	4.6	4.6	4.6	4.7	4.6	4.5	4.5	4.4	4.4
Unemployment rate, both sexes, 25 to 34 years												
1984	8.0	7.9	7.8	7.6	7.2	6.9	7.3	7.0	6.6	6.8	6.9	6.9
1985	7.1	7.0	6.9	7.3	7.0	7.0	6.9	7.0	7.1	6.9	6.9	6.7
1986	6.3	7.0	7.0	7.0	7.1	7.0	7.1	6.8	7.0	7.0	6.9	6.7
1987	6.8	6.5	6.3	6.2	6.2	5.9	5.9	5.8	5.6	5.6	5.6	5.9
1988	5.6	5.5	5.5	5.3	5.4	5.5	5.3	5.6	5.5	5.4	5.4	5.1
Unemployment rate, men, 25 to 34 years												
1984	8.2	8.0	7.6	7.5	7.1	6.8	7.2	6.6	6.3	6.6	6.7	6.9
1985	6.8	6.7	6.5	7.0	6.5	6.6	6.5	6.6	6.8	6.5	6.4	6.3
1986	6.0	6.6	6.6	6.7	7.0	6.7	7.2	6.4	6.8	7.0	6.7	6.6
1987	6.8	6.4	6.2	6.1	6.1	6.0	5.7	5.7	5.4	5.6	5.4	5.6
1988	5.3	5.3	5.6	5.2	5.4	5.3	5.0	5.5	5.3	5.0	5.4	4.8
Unemployment rate, women, 25 to 34 years												
1984	7.8	7.8	8.1	7.7	7.3	7.1	7.5	7.4	7.1	7.2	7.0	6.9
1985	7.5	7.4	7.3	7.6	7.7	7.5	7.5	7.4	7.5	7.4	7.5	7.2
1986	6.8	7.6	7.6	7.5	7.4	7.3	7.1	7.3	7.2	7.0	7.2	6.9
1987	6.8	6.6	6.5	6.4	6.4	5.8	6.1	5.9	5.9	5.5	5.8	6.2
1988	5.9	5.7	5.5	5.3	5.5	5.7	5.7	5.7	5.8	5.8	5.6	5.6
Unemployment rate, both sexes, 35 to 44 years												
1984	5.5	5.4	5.3	5.6	5.3	5.2	5.4	5.6	5.5	5.4	5.0	5.1
1985	5.3	5.2	5.3	5.2	5.1	5.6	5.2	5.1	5.1	4.8	4.9	4.9
1986	4.7	5.3	5.2	5.2	5.2	5.2	5.0	4.9	4.9	5.0	5.1	4.7
1987	4.8	4.8	4.9	4.5	4.4	4.4	4.5	4.4	4.5	4.5	4.1	4.2
1988	4.2	4.3	4.1	4.0	4.1	3.7	3.9	4.0	3.7	3.7	3.7	3.9
Unemployment rate, men, 35 to 44 years												
1984	5.4	5.4	5.2	5.6	5.3	5.3	5.3	5.5	5.4	5.1	4.6	4.4
1985	5.0	4.9	4.9	5.1	4.7	5.3	4.9	4.7	4.7	4.5	4.8	5.0
1986	4.9	5.5	5.1	4.8	5.0	5.2	5.0	5.1	5.0	5.2	5.2	4.9
1987	4.9	4.7	4.7	4.4	4.4	4.3	4.6	4.2	4.3	4.4	4.0	4.0
1988	4.0	4.1	4.0	3.9	4.1	3.5	3.7	4.0	3.6	3.6	3.7	3.8
Unemployment rate, women, 35 to 44 years												
1984	5.6	5.6	5.5	5.6	5.3	5.2	5.5	5.8	5.7	5.8	5.5	5.9
1985	5.8	5.5	5.7	5.5	5.7	5.8	5.6	5.7	5.5	5.1	5.0	4.9
1986	4.5	5.0	5.4	5.7	5.4	5.3	4.9	4.7	4.7	4.8	5.0	4.6
1987	4.6	4.8	5.0	4.7	4.3	4.5	4.5	4.5	4.7	4.7	4.3	4.5
1988	4.5	4.7	4.1	4.0	4.2	4.0	4.2	4.2	3.8	3.9	3.8	3.9

HOUSEHOLD DATA
SEASONALLY ADJUSTED

9. Unemployment rates by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployment rate, both sexes, 45 to 54 years												
1984	5.1	5.0	4.8	4.8	5.0	4.4	4.9	4.7	4.9	4.8	4.9	5.0
1985	4.9	4.8	5.0	5.2	4.4	4.7	4.8	4.6	4.7	4.6	4.2	4.6
1986	4.6	4.4	4.6	4.5	4.7	4.9	4.5	4.4	4.3	4.3	4.2	4.1
1987	4.1	4.4	4.2	4.1	3.9	4.0	3.9	4.0	3.6	4.1	3.8	3.5
1988	3.6	3.7	3.2	3.5	3.3	3.3	3.4	3.4	3.5	3.3	3.5	3.6
Unemployment rate, men, 45 to 54 years												
1984	4.9	4.8	4.8	4.6	4.8	4.0	4.3	4.2	4.6	4.5	4.6	4.9
1985	4.9	4.6	4.7	5.0	4.0	4.6	4.8	4.9	4.6	4.8	4.4	4.4
1986	4.4	4.2	4.5	4.6	4.7	4.7	4.6	4.3	4.3	4.1	4.4	4.1
1987	4.2	4.6	4.5	4.5	4.2	4.4	4.2	4.1	4.0	4.0	3.8	3.5
1988	3.6	3.7	3.3	3.1	3.2	3.2	3.3	3.4	3.5	3.4	3.7	3.9
Unemployment rate, women, 45 to 54 years												
1984	5.4	5.1	4.8	5.0	5.2	5.0	5.9	5.4	5.3	5.4	5.2	5.1
1985	4.9	5.0	5.4	5.3	4.8	4.8	4.8	4.2	4.8	4.3	4.0	4.8
1986	4.8	4.5	4.7	4.5	4.7	5.3	4.5	4.6	4.4	4.4	4.0	4.0
1987	4.0	4.1	3.8	3.5	3.5	3.6	3.6	3.8	3.0	4.1	3.8	3.5
1988	3.5	3.6	3.1	3.9	3.5	3.3	3.5	3.3	3.5	3.2	3.3	3.1
Unemployment rate, both sexes, 55 years and over												
1984	4.7	4.4	4.3	4.4	4.5	4.6	4.4	4.5	4.3	4.6	4.4	4.1
1985	4.3	3.9	3.9	4.1	4.2	4.4	4.5	4.2	4.0	3.9	3.8	3.9
1986	3.9	4.3	4.2	3.9	3.6	3.8	3.9	3.8	3.9	4.1	3.8	3.5
1987	3.2	3.1	3.4	3.5	3.4	3.2	3.1	3.3	3.3	3.2	3.4	3.1
1988	3.4	3.2	2.9	3.0	3.3	3.0	3.1	3.2	2.9	2.8	2.8	3.0
Unemployment rate, men, 55 years and over												
1984	4.9	4.6	4.7	4.6	4.7	4.4	4.6	4.7	4.7	4.5	4.6	4.4
1985	4.4	4.1	3.8	4.1	4.0	4.4	4.7	3.9	4.0	4.1	4.0	3.9
1986	3.9	4.3	4.2	4.0	3.7	4.1	4.1	4.2	4.3	4.5	4.0	3.9
1987	3.5	3.4	3.6	3.8	3.7	3.4	3.5	3.5	3.3	3.3	3.5	3.1
1988	3.8	3.4	3.4	3.2	3.5	3.2	3.2	3.4	2.9	3.0	3.2	3.3
Unemployment rate, women, 55 years and over												
1984	4.4	4.1	3.8	4.1	4.2	5.0	4.1	4.3	3.8	4.8	4.1	3.7
1985	4.2	3.8	4.0	4.2	4.5	4.4	4.2	4.7	3.9	3.6	3.6	3.8
1986	4.0	4.3	4.2	3.8	3.4	3.5	3.6	3.2	3.4	3.5	3.6	2.8
1987	2.8	2.6	3.1	3.0	3.0	2.9	2.6	2.9	3.3	3.1	3.2	3.1
1988	2.9	3.0	2.4	2.8	3.1	2.8	2.9	2.8	2.9	2.4	2.4	2.6
Unemployment rate, both sexes, 55 to 64 years												
1984	5.1	4.7	4.6	4.6	4.6	4.9	4.7	4.8	4.6	5.0	4.6	4.5
1985	4.5	4.2	4.1	4.3	4.5	4.7	4.6	4.4	4.3	4.1	4.0	4.1
1986	4.2	4.5	4.4	4.2	3.7	4.0	4.1	4.0	4.1	4.3	4.1	3.7
1987	3.5	3.2	3.6	3.7	3.7	3.6	3.3	3.4	3.5	3.5	3.6	3.2
1988	3.6	3.4	3.2	3.2	3.3	3.0	3.0	3.3	3.1	2.9	2.9	3.1
Unemployment rate, men, 55 to 64 years												
1984	5.4	5.1	5.2	5.0	4.7	4.9	5.1	5.1	5.1	4.9	4.9	4.8
1985	4.5	4.3	3.9	4.3	4.4	4.7	4.8	4.2	4.4	4.3	4.1	4.1
1986	4.3	4.6	4.4	4.3	3.8	4.2	4.3	4.4	4.6	4.7	4.3	4.3
1987	3.9	3.5	3.7	4.0	4.1	3.9	3.8	3.6	3.6	3.6	3.8	3.2
1988	4.0	3.6	3.7	3.5	3.6	3.3	3.3	3.7	3.3	3.2	3.3	3.4
Unemployment rate, women, 55 to 64 years												
1984	4.6	4.2	3.8	4.0	4.3	5.0	4.2	4.3	3.8	5.0	4.2	4.0
1985	4.5	4.0	4.3	4.2	4.7	4.6	4.3	4.7	4.2	3.8	3.8	4.0
1986	4.2	4.4	4.3	4.1	3.7	3.7	3.8	3.5	3.5	3.8	3.8	2.8
1987	2.9	2.7	3.4	3.3	3.2	3.2	2.7	3.1	3.3	3.2	3.3	3.2
1988	2.9	3.0	2.4	2.8	2.9	2.7	2.8	2.7	2.8	2.6	2.4	2.7

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

9. Unemployment rates by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployment rate, both sexes, 65 years and over												
1984	3.3	3.2	3.1	3.5	4.1	3.4	2.9	3.6	3.3	3.3	3.4	2.8
1985	3.5	2.9	3.2	3.5	3.0	3.3	3.8	3.3	2.7	3.2	3.1	3.0
1986	2.9	3.5	3.4	2.8	2.9	3.2	2.9	3.0	3.1	3.2	2.8	2.6
1987	2.3	2.6	2.6	2.5	2.3	1.8	2.4	3.1	2.9	2.4	2.7	2.7
1988	2.9	2.6	2.2	2.5	3.3	2.9	3.1	2.7	2.2	2.2	2.5	2.8
Unemployment rate, men, 65 years and over												
1984	3.1	2.7	2.7	3.1	4.4	2.4	2.5	3.3	3.1	2.8	3.1	2.8
1985	3.8	2.9	3.3	3.0	2.8	3.1	4.0	2.5	2.7	3.2	3.3	3.0
1986	2.7	3.4	3.3	2.9	3.3	3.6	3.1	3.5	3.4	3.7	3.0	2.5
1987	2.2	3.0	3.0	3.0	2.4	1.7	2.5	3.5	2.5	2.1	2.5	2.7
1988	2.9	2.4	2.3	2.2	2.8	2.7	2.8	2.3	1.7	2.4	2.5	2.9
Unemployment rate, women, 65 years and over												
1984	3.6	3.9	3.8	4.1	3.7	4.9	3.7	3.9	3.6	3.9	3.7	2.7
1985	3.1	2.7	3.1	4.2	3.4	3.6	3.4	4.4	2.8	3.0	2.8	3.1
1986	3.2	3.7	3.6	2.7	2.2	2.5	2.6	2.3	2.7	2.4	2.5	2.8
1987	2.5	2.1	2.2	1.7	2.1	2.0	2.1	2.4	3.5	2.8	3.0	2.6
1988	2.9	3.0	2.1	2.9	4.1	3.2	3.4	3.3	2.9	1.8	2.5	2.6
Unemployment rate, white workers												
1984	6.9	6.8	6.7	6.7	6.4	6.2	6.3	6.4	6.4	6.3	6.2	6.3
1985	6.4	6.2	6.2	6.3	6.2	6.5	6.3	6.2	6.1	6.1	5.9	6.0
1986	5.7	6.3	6.2	6.1	6.2	6.2	6.1	5.9	6.0	6.0	6.0	5.8
1987	5.7	5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.1	5.2	5.0	4.9
1988	5.0	4.8	4.7	4.6	4.7	4.6	4.7	4.9	4.7	4.6	4.6	4.6
Unemployment rate, white men												
1984	7.0	6.8	6.7	6.6	6.3	6.1	6.2	6.2	6.3	6.2	6.2	6.2
1985	6.2	6.1	6.0	6.2	5.9	6.4	6.3	6.1	5.9	6.1	5.8	5.8
1986	5.5	6.1	6.1	6.0	6.2	6.2	6.1	5.8	6.1	6.1	6.0	5.9
1987	5.9	5.8	5.8	5.6	5.5	5.5	5.2	5.2	5.1	5.3	5.0	4.9
1988	5.0	4.7	4.9	4.6	4.8	4.6	4.6	4.9	4.8	4.7	4.7	4.7
Unemployment rate, white women												
1984	6.7	6.7	6.7	6.7	6.5	6.4	6.4	6.7	6.5	6.6	6.2	6.4
1985	6.6	6.3	6.5	6.5	6.5	6.6	6.4	6.3	6.3	6.2	6.0	6.2
1986	6.0	6.5	6.3	6.3	6.2	6.2	6.0	5.9	5.9	6.0	5.9	5.6
1987	5.6	5.5	5.5	5.3	5.2	5.1	5.1	5.1	5.1	5.1	5.0	4.9
1988	4.9	5.0	4.5	4.7	4.7	4.6	4.8	4.8	4.7	4.5	4.5	4.5
Unemployment rate, white workers, 16 to 19 years												
1984	16.4	16.5	17.1	16.3	16.0	15.8	15.1	16.2	16.3	15.7	15.0	15.9
1985	15.9	15.3	15.4	14.9	15.8	16.0	16.4	15.5	14.9	16.9	15.3	16.0
1986	15.0	16.0	14.8	16.1	15.9	16.3	15.4	15.5	15.6	15.3	16.1	15.1
1987	15.0	15.2	15.3	14.6	15.2	14.2	13.3	14.0	14.0	14.5	14.3	13.5
1988	13.9	12.5	14.1	13.9	13.2	12.3	12.9	13.7	13.4	12.9	11.9	12.6
Unemployment rate, white men, 16 to 19 years												
1984	18.2	16.7	17.7	17.0	16.6	16.1	17.3	16.2	16.9	16.5	16.5	16.6
1985	16.4	16.9	15.8	15.5	16.4	16.3	17.4	17.0	15.5	18.7	16.0	16.5
1986	15.1	16.6	15.5	16.8	16.9	17.5	15.8	16.6	16.3	15.6	16.6	15.7
1987	16.2	16.2	16.6	16.2	17.1	15.1	13.2	15.2	14.7	14.8	15.1	14.8
1988	14.5	12.5	15.5	14.4	14.0	13.2	14.3	13.9	14.5	14.4	12.6	13.4
Unemployment rate, white women, 16 to 19 years												
1984	14.5	16.3	16.4	15.7	15.3	15.5	12.9	16.3	15.7	14.9	13.4	15.2
1985	15.3	13.5	15.0	14.3	15.2	15.6	15.2	13.9	14.3	15.0	14.4	15.4
1986	15.0	15.4	14.1	15.4	14.7	15.0	15.0	14.5	14.9	15.0	15.6	14.4
1987	13.7	14.1	13.9	12.9	13.2	13.3	13.4	12.7	13.3	14.2	13.4	12.0
1988	13.3	12.6	12.6	13.3	12.3	11.4	11.4	13.5	12.3	11.3	11.3	11.8

9. Unemployment rates by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployment rate, white workers, 20 years and over												
1984	6.1	6.0	5.9	5.9	5.7	5.5	5.6	5.7	5.6	5.6	5.5	5.6
1985	5.6	5.5	5.5	5.7	5.4	5.8	5.6	5.5	5.5	5.3	5.2	5.3
1986	5.1	5.6	5.5	5.4	5.5	5.5	5.4	5.2	5.3	5.3	5.2	5.1
1987	5.1	5.0	4.9	4.8	4.7	4.7	4.6	4.5	4.4	4.5	4.4	4.3
1988	4.3	4.3	4.1	4.0	4.1	4.0	4.1	4.2	4.1	4.0	4.1	4.0
Unemployment rate, white men, 20 years and over												
1984	6.3	6.1	5.9	5.9	5.6	5.4	5.4	5.5	5.6	5.5	5.4	5.5
1985	5.5	5.4	5.3	5.5	5.2	5.8	5.5	5.4	5.3	5.2	5.2	5.1
1986	4.9	5.4	5.4	5.3	5.5	5.4	5.5	5.1	5.4	5.4	5.3	5.3
1987	5.2	5.1	5.0	4.9	4.7	4.9	4.7	4.6	4.5	4.6	4.4	4.3
1988	4.4	4.2	4.2	4.0	4.2	4.0	3.9	4.3	4.1	4.1	4.2	4.1
Unemployment rate, white women, 20 years and over												
1984	6.0	5.9	5.8	5.9	5.8	5.6	5.8	5.9	5.7	5.9	5.6	5.7
1985	5.8	5.6	5.8	5.8	5.8	5.9	5.7	5.7	5.7	5.5	5.3	5.5
1986	5.2	5.8	5.7	5.5	5.5	5.5	5.3	5.2	5.2	5.2	5.1	4.9
1987	4.9	4.8	4.8	4.7	4.6	4.5	4.5	4.4	4.4	4.3	4.3	4.4
1988	4.2	4.4	3.9	4.0	4.1	4.1	4.3	4.1	4.1	4.0	4.0	3.9
Unemployment rate, black workers												
1984	17.3	16.2	16.6	16.5	15.7	15.6	16.7	16.0	15.0	15.3	15.0	15.2
1985	15.2	15.8	15.1	15.1	15.2	14.4	15.2	14.3	15.2	15.0	15.6	15.1
1986	14.6	14.5	14.5	14.7	14.5	15.1	14.3	14.8	14.9	14.6	14.4	13.8
1987	14.2	13.9	13.6	12.8	13.4	12.9	12.8	12.5	12.6	12.3	12.3	12.3
1988	12.2	12.4	12.5	12.0	12.1	11.7	11.5	11.4	10.9	11.2	11.2	11.6
Unemployment rate, black men												
1984	17.4	16.5	17.3	17.4	16.0	16.6	17.6	16.3	15.5	15.5	14.6	15.7
1985	15.5	15.9	15.4	15.3	15.0	14.5	15.3	13.9	15.4	15.8	15.9	15.5
1986	15.0	14.8	14.9	14.8	14.5	15.2	15.0	15.2	15.6	15.2	14.5	13.7
1987	14.0	13.4	13.0	12.8	13.8	12.8	12.8	12.6	11.9	11.6	12.0	12.1
1988	11.9	12.8	12.7	11.6	12.1	11.5	11.2	11.3	10.7	11.3	11.4	11.4
Unemployment rate, black women												
1984	17.2	15.8	15.8	15.6	15.4	14.6	15.8	15.8	14.5	15.2	15.3	14.7
1985	14.9	15.7	14.8	14.8	15.3	14.3	15.1	14.6	14.9	14.2	15.3	14.6
1986	14.1	14.2	14.2	14.5	14.4	15.1	13.6	14.5	14.3	14.1	14.3	13.9
1987	14.3	14.4	14.2	12.8	13.1	13.1	12.7	12.4	13.2	13.0	12.6	12.5
1988	12.4	12.0	12.3	12.3	12.1	11.8	11.7	11.4	11.1	11.0	11.1	11.7
Unemployment rate, black workers, 16 to 19 years												
1984	46.8	43.0	45.1	43.8	43.6	38.6	42.2	43.1	42.7	41.4	41.9	41.7
1985	41.0	42.0	39.7	38.0	39.2	40.1	41.4	37.0	39.8	41.2	41.9	42.0
1986	40.8	38.5	41.4	40.9	39.0	40.9	39.3	41.6	39.9	36.5	36.2	37.1
1987	38.6	37.0	36.1	36.5	36.8	35.3	33.4	30.1	31.1	34.6	34.1	33.9
1988	34.2	36.8	35.8	30.8	33.9	30.6	31.7	32.1	31.9	30.9	31.1	29.6
Unemployment rate, black men, 16 to 19 years												
1984	45.5	46.2	43.6	43.1	41.3	39.3	41.9	42.7	40.9	44.0	41.9	43.6
1985	43.7	40.9	39.6	38.4	38.1	42.2	42.7	37.0	41.4	41.2	46.4	41.2
1986	40.9	38.3	41.9	40.2	39.3	40.1	41.5	40.0	39.5	38.3	35.7	36.8
1987	36.1	36.5	35.3	37.9	38.5	32.4	33.0	33.4	31.9	32.2	32.5	34.3
1988	34.6	39.9	37.8	27.9	33.2	31.5	31.2	32.1	31.9	32.8	32.1	29.8
Unemployment rate, black women, 16 to 19 years												
1984	48.3	39.4	46.9	44.7	46.6	37.9	42.4	43.5	44.7	38.6	41.9	39.4
1985	37.9	43.1	39.9	37.6	40.3	37.8	39.8	37.0	37.8	41.1	37.2	43.0
1986	40.8	38.8	40.8	41.6	38.7	41.8	36.8	43.3	40.2	34.7	36.7	37.4
1987	41.4	37.6	36.9	35.0	35.1	38.0	33.7	26.2	30.2	37.0	35.9	33.6
1988	33.7	33.8	33.9	33.9	34.8	29.6	32.4	32.0	31.9	28.6	29.9	29.3

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

9. Unemployment rates by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployment rate, black workers, 20 years and over												
1984	15.2	14.2	14.6	14.5	13.7	13.8	14.8	14.0	12.9	13.4	13.0	13.3
1985	13.2	13.8	13.2	13.3	13.3	12.5	13.0	12.5	13.3	12.9	13.6	13.0
1986	12.5	12.6	12.4	12.6	12.6	13.0	12.5	13.0	13.1	13.0	12.9	12.2
1987	12.4	12.2	12.0	11.1	11.8	11.3	11.3	11.1	11.2	10.6	10.6	10.7
1988	10.6	10.7	10.9	10.7	10.5	10.3	10.0	9.8	9.4	9.7	9.8	10.2
Unemployment rate, black men, 20 years and over												
1984	15.3	14.3	15.3	15.4	14.1	14.8	15.7	14.2	13.5	13.2	12.5	13.5
1985	13.1	13.9	13.4	13.4	13.2	12.3	12.9	11.9	13.2	13.7	13.5	13.4
1986	13.0	12.9	12.6	12.7	12.4	13.2	12.9	13.3	13.8	13.5	13.0	12.0
1987	12.3	11.6	11.3	10.9	12.0	11.3	11.3	10.8	10.4	10.0	10.3	10.4
1988	10.2	10.9	11.0	10.4	10.4	9.9	9.6	9.7	9.1	9.6	9.8	10.0
Unemployment rate, black women, 20 years and over												
1984	15.0	14.2	13.8	13.6	13.4	12.8	13.8	13.7	12.3	13.5	13.4	13.0
1985	13.2	13.6	13.0	13.1	13.4	12.7	13.2	13.1	13.4	12.2	13.7	12.6
1986	12.1	12.4	12.1	12.4	12.7	12.8	12.0	12.6	12.4	12.5	12.8	12.3
1987	12.5	12.7	12.6	11.3	11.6	11.2	11.3	11.4	11.9	11.2	10.9	10.9
1988	11.0	10.5	10.8	10.9	10.6	10.6	10.3	10.0	9.7	9.8	9.8	10.5
Unemployment rate, Hispanic-origin workers												
1984	11.4	10.4	11.5	11.6	10.6	10.3	10.4	10.7	10.5	10.8	10.2	10.4
1985	10.6	9.7	10.5	10.4	10.5	10.7	11.2	10.4	10.4	11.1	10.6	10.4
1986	10.2	11.8	10.6	10.3	10.8	10.6	10.8	11.0	11.1	10.4	9.4	10.5
1987	10.5	9.6	9.1	9.0	8.6	8.5	8.2	8.0	8.3	8.4	8.9	8.3
1988	7.5	8.3	8.3	9.0	8.8	8.7	8.1	8.4	7.5	7.8	8.0	7.6
Unemployment rate, married men, spouse present												
1984	5.0	4.8	4.7	4.7	4.6	4.5	4.5	4.6	4.6	4.5	4.4	4.5
1985	4.5	4.4	4.2	4.3	4.0	4.5	4.3	4.3	4.4	4.1	4.2	4.3
1986	4.3	4.4	4.4	4.3	4.5	4.5	4.5	4.3	4.4	4.5	4.4	4.3
1987	4.2	4.1	4.1	4.2	4.0	4.0	3.9	3.7	3.7	3.7	3.5	3.4
1988	3.5	3.4	3.4	3.1	3.3	3.2	3.1	3.4	3.1	3.1	3.3	3.1
Unemployment rate, married women, spouse present												
1984	5.9	5.9	5.8	5.8	5.7	5.7	5.8	5.9	5.7	5.8	5.5	5.5
1985	5.7	5.3	5.8	5.8	5.7	5.9	5.6	5.4	5.7	5.4	5.4	5.3
1986	5.0	5.4	5.5	5.3	5.5	5.4	5.2	5.1	5.1	5.0	4.9	4.7
1987	4.7	4.7	4.5	4.5	4.3	4.2	4.1	4.2	4.2	4.2	4.2	4.4
1988	4.1	4.0	4.0	3.8	3.9	3.9	4.0	4.0	3.8	3.7	3.8	3.7
Unemployment rate, women who maintain families												
1984	10.9	10.7	10.8	10.5	9.9	9.7	10.0	10.1	9.7	10.4	10.9	10.1
1985	10.2	10.9	10.2	10.9	10.7	9.7	10.5	10.7	11.1	10.5	10.1	9.7
1986	9.9	9.9	10.1	9.5	10.0	9.9	9.4	10.1	9.9	8.9	9.9	9.9
1987	9.7	9.6	9.7	9.3	9.5	9.6	9.3	9.1	8.8	8.9	8.6	8.3
1988	8.8	8.3	7.5	8.5	8.4	7.9	8.5	7.5	8.1	7.9	7.7	8.2
Unemployment rate, full-time workers												
1984	7.8	7.5	7.5	7.5	7.2	6.8	7.1	7.2	7.0	7.1	6.9	7.0
1985	7.0	7.0	6.9	6.9	6.8	6.9	7.0	6.8	6.8	6.8	6.7	6.7
1986	6.4	6.8	6.8	6.8	6.8	6.7	6.7	6.5	6.7	6.6	6.5	6.3
1987	6.3	6.2	6.1	6.0	5.9	5.9	5.7	5.6	5.5	5.6	5.5	5.4
1988	5.4	5.3	5.3	5.1	5.2	5.0	5.0	5.3	5.1	5.0	5.0	5.1
Unemployment rate, full-time workers, 16 to 19 years												
1984	20.8	20.3	21.5	21.0	19.8	17.8	19.6	20.7	20.6	20.0	20.6	20.8
1985	20.4	20.1	18.6	17.5	18.5	19.2	21.5	19.9	19.5	21.5	20.1	20.3
1986	20.0	19.6	19.1	19.8	19.4	20.4	20.3	19.5	19.6	18.5	19.2	18.6
1987	18.2	19.0	18.6	17.8	18.1	19.2	17.1	16.9	16.9	17.8	17.4	16.0
1988	16.7	15.8	17.1	16.5	16.0	14.0	14.4	16.7	16.3	15.5	14.7	17.1

9. Unemployment rates by sex, age, race, Hispanic origin, marital status, and full- or part-time status—Continued

(Percent)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployment rate, full-time workers, men, 20 years and over												
1984	7.2	6.9	6.8	6.8	6.4	6.1	6.4	6.4	6.4	6.2	6.1	6.3
1985	6.3	6.2	6.2	6.2	5.9	6.2	6.1	6.0	6.1	6.0	6.0	5.9
1986	5.7	6.1	6.1	6.0	6.2	6.1	6.2	5.9	6.2	6.1	6.1	5.9
1987	5.8	5.7	5.6	5.6	5.4	5.5	5.3	5.2	5.0	5.1	4.9	4.9
1988	4.9	4.8	4.8	4.6	4.8	4.5	4.5	4.9	4.6	4.6	4.7	4.6
Unemployment rate, full-time workers, women, 20 years and over												
1984	7.3	7.1	7.1	7.1	6.9	6.5	7.0	7.0	6.6	7.1	6.6	6.7
1985	6.7	6.8	6.7	6.8	6.8	6.6	6.8	6.7	6.6	6.4	6.5	6.4
1986	6.1	6.6	6.6	6.5	6.6	6.4	6.1	6.1	6.3	6.2	6.0	5.8
1987	5.9	5.8	5.7	5.5	5.4	5.5	5.3	5.3	5.2	5.2	5.1	5.2
1988	5.0	5.1	4.9	4.9	4.9	4.7	5.0	4.8	4.8	4.6	4.7	4.7
Unemployment rate, part-time workers												
1984	9.5	9.5	9.3	9.1	9.1	9.8	9.6	9.6	9.3	8.9	8.8	9.1
1985	9.5	8.8	9.5	9.6	9.9	9.7	9.6	9.0	9.1	9.5	8.7	9.1
1986	8.6	9.4	9.1	9.4	9.1	9.4	9.3	9.3	9.1	9.0	9.1	8.8
1987	8.9	8.8	9.2	8.7	8.6	7.3	8.0	8.2	8.4	8.2	8.2	8.1
1988	8.3	7.9	7.8	7.5	7.7	7.7	8.0	7.4	7.4	7.4	7.1	7.0
Unemployment rate, part-time workers, both sexes, 16 to 19 years												
1984	18.3	17.9	18.0	17.2	17.2	18.8	17.7	17.8	17.9	16.8	14.7	17.0
1985	17.4	16.4	17.6	17.3	18.0	18.1	18.8	16.6	16.6	18.1	16.5	17.9
1986	16.7	17.9	16.9	18.1	17.4	18.3	16.8	17.2	17.5	16.6	17.4	16.5
1987	17.4	17.1	16.5	16.4	16.7	14.5	15.3	15.3	15.6	16.3	16.2	16.1
1988	15.8	15.3	15.4	14.9	14.8	14.7	16.1	14.5	14.7	14.1	13.5	13.0
Unemployment rate, part-time workers, men, 20 years and over												
1984	8.5	8.4	7.9	7.9	8.0	8.8	8.1	7.8	7.2	7.5	7.9	7.8
1985	7.6	7.6	6.9	8.5	8.1	7.9	7.9	7.5	6.8	7.5	7.0	6.8
1986	6.6	6.8	7.1	7.6	7.5	7.5	7.3	8.1	8.5	8.0	7.5	7.9
1987	7.4	7.1	8.1	6.7	6.8	6.0	6.5	6.8	6.5	6.1	5.9	5.6
1988	7.2	6.5	6.4	5.5	6.3	6.1	5.4	5.1	5.4	5.8	6.1	5.9
Unemployment rate, part-time workers, women, 20 years and over												
1984	5.9	6.2	5.9	5.9	5.8	6.3	6.6	6.5	6.3	6.0	6.6	6.1
1985	6.7	5.9	6.8	6.5	6.9	6.8	6.3	6.3	6.8	6.5	5.9	6.2
1986	5.8	6.6	6.2	6.2	6.0	6.0	6.7	6.1	5.5	5.9	6.0	5.7
1987	5.7	5.6	6.4	5.9	5.7	4.2	5.3	5.3	5.9	5.4	5.4	5.5
1988	5.4	5.2	5.0	4.9	5.0	5.3	5.2	5.1	5.0	5.0	4.8	4.8

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

10. Unemployment rates for wage and salary workers by industry

(Percents)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployment rate, total wage and salary workers												
1984	7.6	7.4	7.3	7.3	6.9	6.7	7.0	7.0	6.9	6.9	6.8	6.9
1985	7.0	6.8	6.7	6.9	6.7	6.9	6.8	6.8	6.8	6.7	6.6	6.6
1986	6.3	6.7	6.7	6.8	8.7	6.7	6.6	6.4	6.5	6.6	6.5	6.3
1987	6.3	6.2	6.1	6.0	5.8	5.8	5.7	5.6	5.5	5.6	5.6	5.3
1988	5.5	5.3	5.3	5.1	5.3	5.1	5.1	5.3	5.1	5.0	5.1	5.0
Unemployment rate, wage and salary workers in agricultural industries												
1984	15.4	13.8	15.1	13.0	13.9	12.8	13.9	12.5	13.9	13.6	11.3	12.9
1985	15.9	13.3	12.8	13.7	11.5	13.0	13.7	13.3	12.8	13.1	13.0	10.9
1986	11.3	13.8	12.2	14.1	15.2	13.9	11.3	12.9	12.8	11.8	9.9	11.9
1987	11.3	11.2	10.9	9.7	8.5	9.5	11.2	10.4	8.2	10.8	11.5	11.5
1988	11.4	10.5	11.0	11.0	12.4	10.0	11.0	11.0	10.8	10.2	9.3	8.8
Unemployment rate, wage and salary workers in nonagricultural industries												
1984	7.5	7.3	7.1	7.2	8.8	6.6	6.9	6.9	6.8	6.8	6.8	8.8
1985	8.8	6.7	6.6	6.7	8.6	6.8	6.7	6.7	6.7	6.6	6.5	6.5
1986	6.2	6.6	8.6	6.6	8.8	6.6	6.5	6.3	8.4	6.5	6.5	6.2
1987	6.2	8.1	8.0	5.9	5.8	5.7	5.6	5.6	5.5	5.5	5.5	5.2
1988	5.4	5.2	5.2	5.0	5.2	5.0	5.0	5.2	5.0	4.9	5.0	4.9
Unemployment rate, government workers in nonagricultural industries												
1984	4.9	4.5	4.5	4.5	4.7	4.3	4.4	4.3	4.5	4.4	4.3	4.3
1985	4.1	3.9	3.9	3.9	3.9	3.9	4.1	3.8	3.8	3.9	3.6	3.9
1986	3.5	3.8	4.0	3.8	3.7	3.6	3.3	3.0	3.5	3.8	3.7	3.3
1987	3.6	3.7	3.5	3.6	3.4	3.4	3.3	3.5	3.4	3.4	3.6	3.0
1988	3.0	2.9	2.9	3.0	2.9	2.9	3.0	2.9	2.7	2.8	2.5	2.7
Unemployment rate, private wage and salary workers in nonagricultural industries												
1984	8.0	7.8	7.7	7.8	7.2	7.0	7.4	7.5	7.2	7.3	7.2	7.3
1985	7.3	7.2	7.2	7.3	7.1	7.3	7.2	7.2	7.2	7.1	7.1	7.0
1986	6.7	7.2	7.1	7.2	7.2	7.1	7.2	7.0	7.0	7.0	7.0	6.8
1987	6.7	6.8	8.5	8.4	6.2	6.2	8.1	6.0	5.9	5.9	5.8	5.7
1988	5.8	5.7	5.6	5.4	5.6	5.4	5.4	5.6	5.4	5.4	5.5	5.4
Unemployment rate, private wage and salary workers in nonagricultural goods-producing industries												
1984	9.7	9.3	8.9	9.1	8.7	8.8	8.9	8.9	8.6	8.7	8.6	8.7
1985	8.8	8.8	8.9	9.2	8.2	9.1	9.2	9.0	9.0	8.8	8.8	8.5
1986	8.3	8.5	8.4	8.3	8.6	8.8	8.6	8.4	8.5	9.0	9.2	8.6
1987	8.1	7.9	8.0	7.6	7.7	7.2	7.1	8.9	7.1	7.1	6.6	6.4
1988	6.9	6.8	6.5	6.5	6.5	6.2	6.3	6.7	6.4	8.4	6.4	6.4
Unemployment rate, private wage and salary workers in mining												
1984	11.3	12.3	11.0	9.7	8.6	6.8	7.8	10.8	8.7	11.3	11.9	10.1
1985	10.1	11.4	11.2	10.3	7.1	9.9	9.8	8.5	9.6	8.1	7.6	10.4
1986	10.6	9.9	10.9	12.3	12.9	15.8	16.9	16.4	14.4	14.3	15.6	14.1
1987	13.8	13.0	9.8	10.8	12.0	9.7	8.0	9.0	7.4	8.3	6.9	8.2
1988	7.5	7.8	8.2	8.1	9.4	6.8	5.4	7.0	8.6	6.8	8.9	7.7
Unemployment rate, private wage and salary workers in construction												
1984	15.3	14.9	13.5	14.6	14.9	14.7	14.6	14.2	13.8	13.4	13.9	13.7
1985	13.5	13.3	13.2	13.7	10.5	13.9	13.5	13.3	13.9	13.3	13.2	12.6
1986	12.8	13.1	12.9	12.4	12.8	12.5	13.3	12.3	13.0	13.6	15.0	13.6
1987	12.2	11.6	12.4	12.0	12.0	11.8	10.9	11.2	12.4	11.4	10.5	10.7
1988	11.9	10.9	10.6	10.6	10.5	10.3	10.4	10.7	9.6	10.0	10.6	10.4
Unemployment rate, private wage and salary workers in manufacturing												
1984	8.2	7.7	7.6	7.8	7.1	7.3	7.5	7.4	7.3	7.3	7.2	7.4
1985	7.5	7.6	7.6	8.0	7.7	7.8	8.0	7.9	7.6	7.6	7.7	7.3
1986	7.0	7.2	7.1	7.0	7.3	7.4	7.0	7.0	6.9	7.4	7.2	7.0
1987	6.7	6.7	6.7	6.3	6.3	5.8	6.0	5.6	5.5	5.8	5.4	5.2
1988	5.5	5.6	5.2	5.3	5.3	4.9	5.2	5.5	5.4	5.3	5.1	5.2

10. Unemployment rates for wage and salary workers by industry—Continued

(Percents)

Year	January	February	March	April	May	June	July	August	September	October	November	December
Unemployment rate, private wage and salary workers in durable goods												
1984	8.1	7.5	7.8	7.4	7.0	7.0	6.8	6.8	6.9	7.0	7.1	7.3
1985	7.2	7.2	7.5	7.8	7.6	7.8	7.9	7.9	7.7	7.4	7.8	7.4
1986	6.9	7.2	6.8	6.9	7.1	7.1	6.7	6.9	6.4	7.5	6.9	6.6
1987	6.7	6.5	6.5	6.3	6.2	5.5	5.9	5.5	5.4	5.3	5.0	4.8
1988	5.3	5.7	5.1	4.8	4.9	4.5	4.9	5.0	5.2	5.0	4.9	5.0
Unemployment rate, private wage and salary workers in nondurable goods												
1984	8.4	7.9	7.3	8.0	7.4	7.7	8.6	8.3	8.0	7.8	7.3	7.4
1985	7.9	8.2	7.9	8.3	7.7	7.6	8.1	7.9	7.6	7.8	7.5	7.2
1986	7.0	7.2	7.5	7.0	7.5	7.7	7.4	7.1	7.6	7.2	7.7	7.6
1987	6.7	7.0	7.1	6.3	6.4	6.2	6.0	5.7	5.8	6.4	6.0	5.6
1988	5.8	5.4	5.4	5.9	5.9	5.5	5.6	6.3	5.8	5.7	5.3	5.5
Unemployment rate, private wage and salary workers in nonagricultural service-producing industries												
1984	7.0	7.0	7.0	7.1	6.5	6.1	6.6	6.7	6.5	6.5	6.5	6.5
1985	6.6	6.4	6.3	6.3	6.6	6.5	6.3	6.3	6.3	6.3	6.2	6.3
1986	5.9	6.5	6.4	6.7	6.4	6.3	6.4	6.3	6.3	6.1	5.9	5.9
1987	6.0	5.9	5.8	5.7	5.6	5.7	5.6	5.5	5.4	5.3	5.5	5.3
1988	5.3	5.2	5.2	4.8	5.2	5.1	5.0	5.1	5.0	4.9	5.1	4.9
Unemployment rate, private wage and salary workers in transportation and public utilities												
1984	5.5	5.9	5.3	5.4	5.6	5.2	5.5	6.4	5.8	5.3	5.2	5.2
1985	5.3	5.5	4.4	5.2	5.1	5.1	5.3	4.8	5.4	5.1	5.2	5.2
1986	4.5	5.6	5.7	5.4	5.2	5.2	5.6	4.9	4.9	5.2	4.2	4.6
1987	4.8	4.3	4.4	4.7	4.3	4.7	4.5	4.4	4.1	4.4	4.2	4.6
1988	3.7	3.8	4.1	3.8	4.2	4.1	3.6	3.8	3.8	3.5	4.0	3.8
Unemployment rate, private wage and salary workers in wholesale and retail trade												
1984	8.4	8.3	8.3	8.8	7.8	7.3	7.8	7.7	7.9	7.8	7.7	7.6
1985	7.7	7.7	7.6	7.4	7.7	7.6	7.6	7.7	7.8	7.8	7.6	7.8
1986	7.2	7.8	7.6	8.0	7.9	7.7	7.8	7.4	7.6	7.5	7.2	7.3
1987	7.4	7.2	7.2	7.1	6.9	7.1	6.8	6.9	6.4	6.5	6.9	6.2
1988	6.2	6.3	6.7	5.9	6.3	6.0	6.2	6.4	6.2	6.0	6.2	6.3
Unemployment rate, private wage and salary workers in finance and service industries												
1984	6.3	6.2	6.3	6.1	5.6	5.5	5.8	6.0	5.5	5.8	5.8	6.0
1985	5.9	5.6	5.7	5.7	6.1	5.8	5.5	5.5	5.4	5.4	5.4	5.4
1986	5.3	5.7	5.7	5.9	5.6	5.5	5.6	5.7	5.5	5.3	5.3	5.1
1987	5.2	5.3	5.0	4.9	4.9	4.9	5.0	4.7	4.8	4.6	4.7	4.8
1988	4.9	4.6	4.3	4.3	4.6	4.6	4.5	4.4	4.4	4.5	4.6	4.1

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-

bile 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	1,330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	2,333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981	629	62,200	2,800	12,000
May 1981 to 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			
Men, 20 years and over . . . . .	.15	.15			
Women, 20 years and over . . . . .	.16	.17			
Both sexes, 16 to 19 years . . . . .	.67	.81			
White workers . . . . .	.11	.12			
Black workers . . . . .	.51	.54			
Married men, spouse present . . . . .	.15	.17			
Married women, spouse present . . . . .	.19	.21			
Full-time workers . . . . .	.12	.12			
Part-time workers . . . . .	.34	.42			
Unemployed 15 weeks and over . . . . .	.06	.07			
			Occupation—Continued		
			Precision production, craft, and repair	0.32	0.36
			Machine operators, assemblers, and inspectors . . . . .	.49	.55
			Transportation and material moving . . . . .	.59	.66
			Handlers, equipment cleaners, helpers, and laborers . . . . .	.72	.82
			Farming, forestry, and fishing . . . . .	.68	.76
			Industry		
			Nonagricultural private wage and salary workers . . . . .	.12	.13
			Mining	1.63	1.86
			Construction . . . . .	.65	.75
			Manufacturing . . . . .	.26	.29
			Durable goods . . . . .	.33	.37
			Nondurable goods . . . . .	.42	.47
			Transportation, communications, and public utilities . . . . .	.42	.48
			Wholesale and retail trade . . . . .	.27	.30
			Finance and services . . . . .	.20	.22
			Government workers . . . . .	.23	.25
			Agricultural wage and salary workers	1.16	1.32
Occupation					
Executive, administrative, and managerial . . . . .	.22	.24			
Professional specialty . . . . .	.19	.21			
Technicians and related support . . . . .	.47	.52			
Sales . . . . .	.29	.33			
Administrative support, including clerical . . . . .	.23	.26			
Private household	1.18	1.33			
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 =

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

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

lation between the estimates X and Y resulting from the presence of some of the same respondents in the sample for each estimate. For consecutive year-to-year changes of quarterly estimates, the values of P are 0.30 for persons (total, white, and black) and 0.35 for families (total, white, and black). The respective values for estimates of Hispanics are 0.45 and 0.55.

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

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

or about 259,000.

Table F. Standard errors for unemployment rates

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50	2.28	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 employment change (table B-7). These indexes measure the dispersion among industries of the change in employment over the specified time span. The overall indexes are calculated from 349 seasonally adjusted employment series (three-digit industries) covering all nonagricultural payroll employment in the private sector. The manufacturing diffusion indexes are based on 143 three-digit industries.

To derive the indexes, each component industry is assigned a value of 0, 50, or 100 percent, depending on whether its employment showed a decrease, no change, or an increase, respectively, over the time span. The average value (mean) is then calculated, and this percent is the diffusion index number.

The reference point for diffusion analysis is 50 percent, the value which indicates that the same number of component industries had increased as had decreased. Index numbers above 50 show that more industries had increasing employment, and

values below 50 indicate that more had decreasing employment. The margin between the percent that increased and the percent that decreased is equal to the difference between the index and its complement, i.e., 100 minus the index. For example, an index of 65 percent means that 30 percent more industries had increasing employment than had decreasing employment ($65 - (100 - 65) = 30$). However, for dispersion analysis, the distance of the index number from the 50-percent reference point is the most significant observation.

Although diffusion indexes are commonly interpreted as showing the percent of components that increased over the time span, it should be remembered that the index reflects half of the unchanged components as well. (This is the effect of assigning a value of 50 percent to the unchanged components when computing the index.)

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

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 establish-

ment 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 1987 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 from the records of the Social Security Administration, the

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.

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	246,256	37,530,000	37
Mining	3,434	265,000	38
Construction	22,567	808,000	18
Manufacturing	49,214	9,522,000	51
Transportation and public utilities	11,820	2,377,000	45
Wholesale trade	21,802	956,000	17
Retail trade	44,982	3,509,000	20
Finance, insurance, and real estate	17,699	2,140,000	33
Services	54,782	5,495,000	23
Government:			
Federal	(2)	2,916,000	100
State	4,795	3,298,000	81
Local	15,161	6,244,000	61

¹ Counts reflect reports used in final estimates. Since not all establishments report payroll and hours information, hours and earnings estimates are based on a smaller sample than employment estimates.

² Total Federal employment counts for use in national estimates are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 4,600 reports covering about 55 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