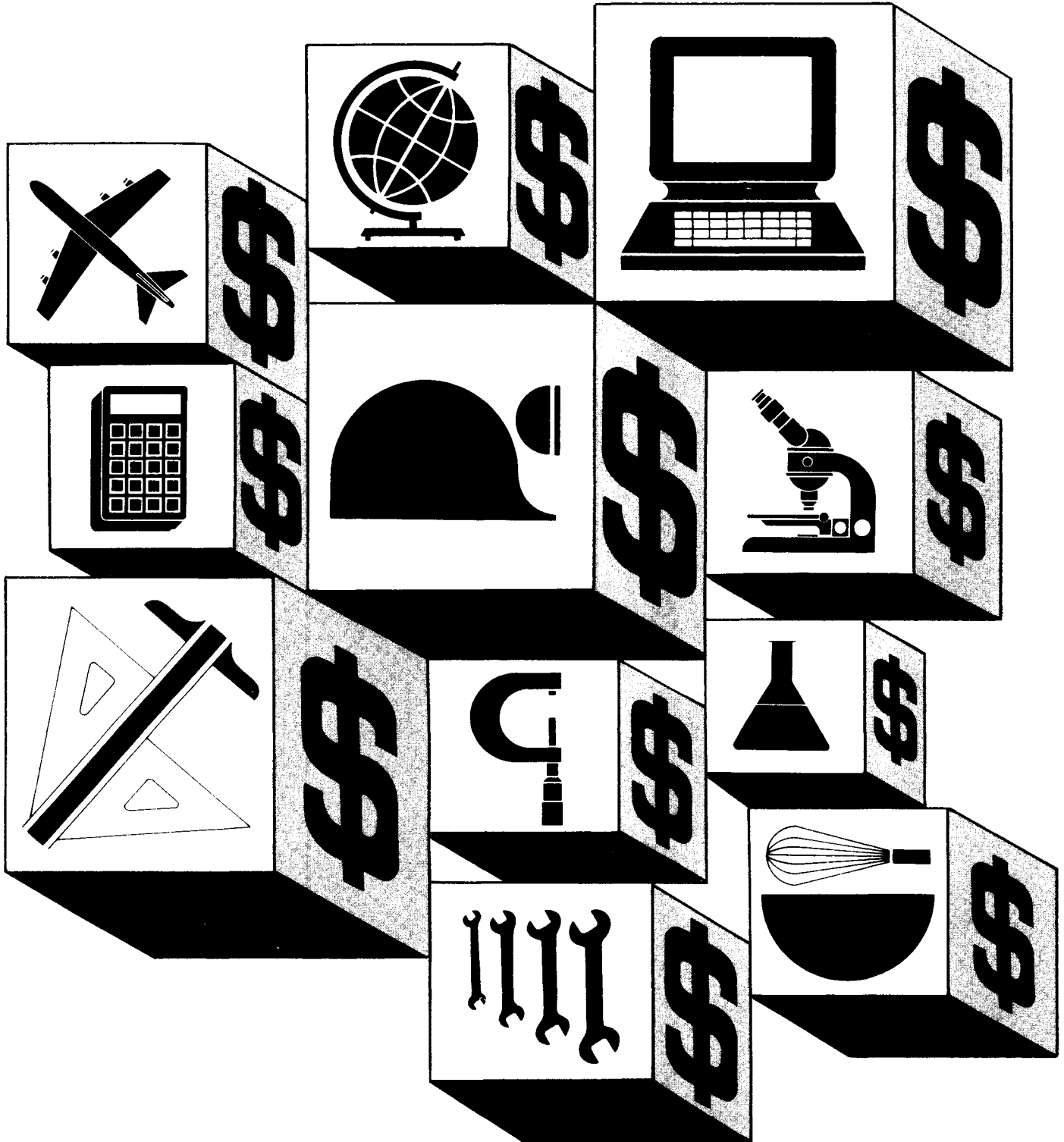


EMPLOYMENT AND EARNINGS

U.S. Department of Labor
Bureau of Labor Statistics
July 1990





U.S. DEPARTMENT OF LABOR

Elizabeth Dole, Secretary

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Janet L. Norwood, *Commissioner*

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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.
Earnings by detailed occupation	Jan.
Revised seasonally adjusted series	Jan., Feb.

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

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Industry detail (final)	Mar.
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Revised historical national data	Supplement ²
State and area annual averages	May
Area definitions	May

State and area labor force data

Annual averages	May
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¹ The September 1990 issue will introduce March 1989 benchmarks.

² The latest supplement was published in August 1989.

Employment and Earnings

Vol. 37 No. 7 July 1990

Editors: Gloria Peterson Green, Rosalie K. Epstein

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Employment and Unemployment Developments, June 1990

Both employment and unemployment were little changed in June. The overall jobless rate was 5.1 percent, and the civilian worker rate was 5.2 percent. Both measures were 5.3 percent in May.

Nonfarm payroll employment, as reported by the survey of business establishments, was about unchanged in June, after seasonal adjustment. Private sector employment edged up, however, but job growth in this sector has been generally weak over the past several months. Government employment decreased in June, as jobs ended for some temporary workers who had been hired to conduct the decennial census. Total civilian employment, as measured by the household survey, was unchanged in June.

Unemployment

The number of unemployed persons totaled 6.4 million in June. There were declines in unemployment among teenagers and new entrants into the labor force. The civilian worker unemployment rate, 5.2 percent, was little different from May's 5.3 percent. Unemployment has changed very little over the past 2 years. (See tables A-33 and A-41.)

Jobless rates for most individual worker groups—adult men (4.7 percent), adult women (4.5 percent), whites (4.5 percent), and Hispanics (7.1 percent)—held about steady from May to June. The rate for teenagers fell by 1.4 percentage points to 14.1 percent, returning to about the level which prevailed earlier this year. The rate for blacks has been 10.4 percent for the last 3 months, its lowest level in 16 years. The rate for black teenagers was 31.4 percent in June. (See tables A-33 and A-34.)

Civilian employment and the labor force

Both civilian employment, 118.4 million, and the employment-population ratio, 63.0 percent, were unchanged over the month, after seasonal adjustment. Over the past year, employment has increased by only about 900,000, considerably less than in recent years. (See table A-33.)

The civilian labor force, 124.8 million, and the labor force participation rate, 66.4 percent, were also little changed over the month, after seasonal adjustment. The labor force has increased by only 740,000 since June 1989, and the participation rate has remained essentially unchanged. Much of this reduced growth stems from a declining labor force of teenagers, whose population was down by 400,000 from a year earlier. (See table A-33.)

Discouraged workers

The number of discouraged workers—persons who report they want to work but are not looking for jobs because they believe they could not find any—rose by 150,000 in the second quarter of 1990 to a seasonally adjusted level of about 900,000. (See table A-53.)

Industry payroll employment

Nonfarm payroll employment was about unchanged in June, following an increase of 355,000 in May, as revised. This large swing in employment growth reflected the hiring in May of an additional 200,000 temporary workers for the decennial census and the reduction of an estimated 55,000 in June. Looking at the private sector only, nonfarm payroll job growth averaged only 110,000 during the first 6 months of 1990, compared with 220,000 and 135,000, respectively, during the first and second halves of 1989. (See table B-4.)

The goods-producing sector showed continued weakness in June. Manufacturing payrolls were down 30,000 over the month, with small declines spread among several durable goods industries and in food processing and apparel within nondurables. Factory job losses have totaled 335,000 since March 1989. Construction employment declined for the fourth consecutive month, after seasonal adjustment. At 5.3 million, the employment level in that industry was about the same as a year earlier. In mining, by contrast, small but consistent gains have brought employment in that industry to 760,000—45,000 more than a year earlier and the highest level since June 1986.

June growth in the service-producing sector was essentially limited to the services industry, where employment expanded by 115,000. The health services component continued its pattern of strong growth, adding 40,000 jobs. There was also a small increase in transportation and public utilities. Employment was about unchanged in retail trade and finance, insurance, and real estate. In government, employment declines totaling 50,000 were limited to the Federal sector, principally due to the curtailment in decennial census work.

Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls edged up 0.1 hour in June to 34.7 hours, seasonally adjusted. The May increase in manufacturing hours was sustained, with the factory

workweek holding at 41.0 hours. Manufacturing overtime was also unchanged from May at 3.8 hours (after revision).

The index of aggregate weekly hours of private production or nonsupervisory workers rose 0.2 percent to 130.5 (1977=100) in June, after seasonal adjustment. The index for manufacturing was little changed at 94.5. (See table C-6.)

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory

workers on private nonfarm payrolls edged up 0.3 percent in June, seasonally adjusted. Average weekly earnings rose 0.6 percent. Prior to seasonal adjustment, average hourly earnings declined 1 cent to \$9.96 and average weekly earnings increased \$2.64 to \$346.61. Both hourly and weekly earnings were up 4.0 percent over the year. (See tables C-1 and C-7.)

Note on temporary census workers

The number of temporary workers associated with the 1990 census has an impact on the employment levels for the Federal Government, as well as for higher aggregates ("B" tables). The estimate of these workers was 22,000 in January, 27,000 in February, 117,000 in March, 178,000 in April, and 378,000 in May. For June, the estimated number (preliminary) was 321,000, which may be subject to significant revision.

Scheduled Release Dates

Employment and unemployment data are scheduled for initial release on the following dates:

<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
July	August 3	October	November 2
August	September 7	November	December 7
September	October 5	December	January 4

New Seasonal Adjustment Factors for Household Data Series

*Robert J. McIntire

Semiannually, the Bureau of Labor Statistics publishes the factors to be used during the following 6 months for seasonal adjustment of the major labor force series. Table 1 presents these seasonal adjustment factors for the 12 major labor force components for July-December 1990. The factors which were used for these components during the first 6 months of 1990 were published in the January 1990 issue of *Employment and Earnings*. The 12 seasonally adjusted series which result from the application of these factors are used in the computation of the seasonally adjusted figures for the national unemployment level and for the overall and civilian employment and labor force levels and unemployment rates. The overall measures include the resident Armed Forces in the employed segment of the labor force, but seasonal factors are not calculated for the resident Armed Forces data since they are considered to have no seasonal component.

The new seasonal factors have been extrapolated using the X-11 ARIMA program with data through June 1990 for each series. The ARIMA models used were the same as those used at the beginning of the year for the extrapolation of the factors for January through June; they were identified in the January issue of this publication. The historical seasonally adjusted data, including the first 6 months of 1990, will not be revised until the beginning of 1991. More detailed information on the adjustment method, the procedures for aggregation, and the revision of historical data is included in the January 1990 issue in the article entitled "Revision of Seasonally Adjusted Labor Force Series."

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

Data for any of the several hundred seasonally adjusted labor force series and the July-December 1990 factors for any of the other independently adjusted series (there are about 200 in addition to the 12 major components) may be obtained from BLS upon request. Requests for data or inquiries concerning the seasonal adjustment methodology or the availability of machine-readable files of labor force data should be addressed to the Data Development Staff, Bureau of Labor Statistics, Washington, DC 20212.

Table 1. Current seasonal adjustment factors for the 12 major civilian labor force components, July-December 1990

Procedure and series	July	Aug.	Sept.	Oct.	Nov.	Dec.
Multiplicative Adjustment (Divide factor into original value)						
Agricultural employment:						
Men, 20 years and over . . .	1.099	1.084	1.040	1.044	.981	.924
Women, 20 years and over . . .	1.156	1.054	1.068	1.076	.981	.891
Men, 16 to 19 years	1.727	1.457	.947	.900	.693	.676
Women, 16 to 19 years	1.701	1.377	.760	.763	.756	.794
Nonagricultural employment:						
Men, 20 years and over	1.009	1.009	1.005	1.004	1.001	.999
Women, 20 years and over . . . . .	.988	.989	1.000	1.010	1.013	1.009
Unemployment:						
Men, 20 years and over . . . . .	.925	.904	.884	.908	.988	1.011
Women, 20 years and over	1.061	1.067	1.060	1.002	.975	.911
Additive Adjustment (Subtract factor from original value)						
Nonagricultural employment:						
Men, 16 to 19 years	871	667	-190	-165	-115	-160
Women, 16 to 19 years	713	534	-151	-95	-103	-32
Unemployment:						
Men, 16 to 19 years	81	-33	-43	-15	-8	-42
Women, 16 to 19 years	134	1	17	-39	-29	-99

Revisions in Establishment-Based Employment Estimates for States and Areas

* John W. Osborn II

With the release of data for January 1990, the Bureau of Labor Statistics introduced its annual revision of estimates of State and area employment, hours, and earnings from the monthly survey of nonfarm establishments. Each year the sample-based estimates are adjusted to new benchmarks—comprehensive counts of employment based primarily on unemployment insurance reports filed by employers with State employment security agencies. The current revisions are based on March 1989 benchmarks. In addition to the benchmark adjustments, the State and area series are now classified in accordance with the 1987 *Standard Industrial Classification (SIC) Manual*. National establishment survey data will incorporate March 1989 benchmark levels based on the 1987 SIC in September 1990 with the release of August data.

Benchmark revisions

The average revision in State estimates of total nonfarm employment was 0.9 percent for March 1989, the benchmark month (table 1). For the past 5 years, the average revision has been between 0.7 and 0.9 percent. For 35 States, total nonfarm employment was revised by 1 percent (plus or minus) or less, while 5 States were revised upward by more than 2 percent (table 2).

Estimates of total nonfarm employment were revised upward in 39 States in 1989. Across industry divisions, revisions were less than 2 percent, except for services (2.3 percent), mining (2.7 percent), and construction (3.9 percent). Services accounted for nearly four-fifths of the revision at the total nonfarm level.

The overall revision in nonfarm employment for metropolitan areas was 1.3 percent (table 3). More than half of the 267 metropolitan areas for which estimates are published in *Employment and Earnings* had revisions of 1 percent or less. Revisions for another three-tenths of these areas were between 1 and 2 percent (table 4). Average revisions of employment estimates for major industry divisions varied from 1.7 percent in government to 12.6 percent in mining.

* John W. Osborn II is a statistician in the Division of Monthly Industry Employment Statistics, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics.

Changes in the Standard Industrial Classification System

The Standard Industrial Classification (SIC) is revised periodically to reflect the economy's changing industrial organization. The 1987 SIC revision has taken into account technological changes; institutional changes such as deregulation in the banking, communications, and transportation industries; and the tremendous expansion in the service-producing sector. In addition, changes have been made to clarify classification concepts and in the classification of individual activities.

Overall, the 1987 SIC revision did not change the total number of industries (1,005), but many industry classifications were added, deleted, or modified. The revision resulted in a net increase of 19 industries for services, 8 for wholesale trade, and 7 for manufacturing, with a net decrease of 34 for the other SIC divisions.

Due to changes in technology, consumer demand, or other changes in the economy, new industries were created by subdividing or restructuring existing ones, and some industries were merged to reflect declines in importance or size. Also, various industries were changed by transferring components of one industry to another, primarily to increase accuracy, consistency, and usefulness in classification. A few industries are renumbered without any change in content as a consequence of restructuring the classification at the 3-digit level.

More detailed information on the new SIC appears in the 1987 *Standard Industrial Classification Manual*, Office of Management and Budget, and *Employment Data Under the New Standard Industrial Classification, First Quarter 1988*, BLS Report 772.

Additional information

Historical State and area data are available from the cooperating State agencies or the BLS regional offices listed on the inside back cover of this publication. State and area annual averages for major industry divisions for 1987-89 were published in the May 1990 issue of *Employment and Earnings*. Monthly and annual average data for 1987-89 and monthly data through May 1990 for all published State and area series, by 1987 SIC-based industry detail, will appear in a forthcoming supplement to *Employment, Hours, and Earnings, States and Areas, 1972-87* (Bulletin 2320).

Table 1. Revisions in State employment estimates by industry division, March 1980-89

(Data represent means of absolute percentages; standard deviations are shown in italics.)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total nonfarm employment	1.1 <i>1.1</i>	0.9 <i>.9</i>	1.1 <i>1.4</i>	1.0 <i>.9</i>	1.5 <i>.9</i>	0.9 <i>.8</i>	0.7 <i>.6</i>	0.8 <i>1.0</i>	0.8 <i>.7</i>	0.9 <i>.6</i>
Mining ¹	4.1 <i>3.2</i>	3.8 <i>4.9</i>	4.5 <i>4.1</i>	6.8 <i>6.8</i>	3.2 <i>3.4</i>	3.1 <i>3.0</i>	3.8 <i>3.6</i>	4.2 <i>4.1</i>	2.9 <i>2.5</i>	2.7 <i>2.2</i>
Construction	6.1 <i>4.9</i>	5.6 <i>4.3</i>	6.1 <i>6.4</i>	7.0 <i>5.7</i>	6.1 <i>6.0</i>	5.5 <i>6.1</i>	4.8 <i>4.9</i>	5.2 <i>4.6</i>	3.6 <i>3.6</i>	3.9 <i>2.9</i>
Manufacturing	1.6 <i>2.4</i>	1.5 <i>2.5</i>	1.7 <i>2.4</i>	2.1 <i>3.0</i>	1.5 <i>1.1</i>	1.4 <i>1.4</i>	1.4 <i>1.5</i>	1.2 <i>1.2</i>	1.1 <i>1.1</i>	1.6 <i>2.5</i>
Transportation and public utilities	1.7 <i>1.6</i>	1.7 <i>1.4</i>	1.9 <i>1.4</i>	1.7 <i>1.4</i>	1.9 <i>1.4</i>	1.9 <i>1.4</i>	1.6 <i>1.4</i>	1.9 <i>1.6</i>	1.9 <i>2.0</i>	1.8 <i>1.4</i>
Wholesale and retail trade	2.1 <i>1.6</i>	1.5 <i>1.9</i>	2.0 <i>1.9</i>	1.7 <i>1.4</i>	2.2 <i>1.5</i>	1.8 <i>1.5</i>	1.7 <i>1.4</i>	1.4 <i>1.7</i>	1.1 <i>.9</i>	1.4 <i>1.1</i>
Finance, insurance, and real estate	1.8 <i>1.5</i>	1.5 <i>1.4</i>	1.5 <i>1.3</i>	1.4 <i>1.7</i>	2.2 <i>1.7</i>	1.4 <i>1.3</i>	1.5 <i>1.3</i>	2.2 <i>3.7</i>	1.5 <i>1.7</i>	1.4 <i>1.5</i>
Services	2.2 <i>1.9</i>	1.8 <i>1.5</i>	1.7 <i>1.7</i>	1.5 <i>1.6</i>	2.7 <i>1.8</i>	1.5 <i>1.3</i>	1.2 <i>1.2</i>	1.1 <i>.8</i>	1.6 <i>1.4</i>	2.3 <i>1.5</i>
Government	1.5 <i>2.1</i>	1.3 <i>1.5</i>	1.7 <i>1.8</i>	.8 <i>1.0</i>	1.0 <i>1.0</i>	1.1 <i>1.0</i>	1.0 <i>.7</i>	.8 <i>.7</i>	1.0 <i>.9</i>	.7 <i>.6</i>

¹ Does not include estimates of less than 2,000.

NOTE: The mean is the sum of all the items in a series divided by the number of items. The standard deviation is a widely used measure of dispersion. It measures the extent to which the individual items in a series are scattered about the mean of the series and indicates the reliability of the mean. For example, for March 1989, the standard deviation for construction (2.9) is high, while for government (0.6) it is low. This is an indication that there is a high

variation among the State revisions for construction (i.e., the mean is less representative of the group) and a low variation among the State revisions for government (i.e., the mean is more representative of the group). The standard deviation is found by taking the difference of each item in a series from the mean of the series, squaring each difference, summing the squared differences, dividing the result by the number of items, and obtaining the square root of that figure.

Table 2. Distribution of States by percent revision in total and industry division employment estimates, March 1989

	Below -3.0 percent	-3.0 to -2.1 percent	-2.0 to -1.1 percent	-1.0 to -.1 percent	0 to 1.0 percent	1.1 to 2.0 percent	2.1 to 3.0 percent	Above 3.0 percent	Mean
Total nonfarm employment	0	0	1	10	25	10	5	0	0.9
Mining	11	5	6	2	4	3	1	4	2.7
Construction	13	8	5	2	2	9	1	11	3.9
Manufacturing	2	3	7	12	14	10	1	2	1.6
Transportation and public utilities	1	4	6	5	12	13	2	8	1.8
Wholesale and retail trade	2	0	3	10	13	12	9	2	1.4
Finance, insurance, and real estate	4	7	10	15	12	2	1	0	1.4
Services	0	0	2	1	9	13	11	15	2.3
Government	0	0	1	23	19	5	3	0	.7

NOTE: Distributions do not include revisions for estimates of less than 2,000.

Table 3. Revisions in metropolitan area employment estimates by industry division, March 1986-89

(Data represent means of absolute percentages; standard deviations are shown in italics.)

	1986	1987	1988	1989
Total nonfarm employment	1.2 <i>.9</i>	1.1 <i>1.0</i>	1.1 <i>.9</i>	1.3 <i>1.1</i>
Mining ¹	13.5 <i>26.9</i>	11.9 <i>19.4</i>	11.0 <i>20.6</i>	12.6 <i>15.8</i>
Construction	6.7 <i>8.0</i>	7.8 <i>6.9</i>	6.6 <i>6.4</i>	6.4 <i>7.2</i>
Manufacturing	2.5 <i>2.7</i>	2.2 <i>2.1</i>	2.1 <i>2.0</i>	2.5 <i>2.3</i>
Transportation and public utilities	3.7 <i>4.1</i>	4.3 <i>5.9</i>	3.6 <i>4.1</i>	5.0 <i>6.4</i>
Wholesale and retail trade	2.1 <i>1.8</i>	2.3 <i>2.0</i>	2.0 <i>1.9</i>	2.4 <i>2.2</i>
Finance, insurance, and real estate	3.1 <i>3.3</i>	3.0 <i>3.5</i>	3.1 <i>3.7</i>	3.7 <i>4.4</i>
Services	2.5 <i>2.3</i>	2.2 <i>2.0</i>	2.6 <i>2.1</i>	2.7 <i>2.2</i>
Government	2.0 <i>2.0</i>	1.6 <i>1.9</i>	1.6 <i>2.0</i>	1.7 <i>1.8</i>

¹ Does not include estimates of less than 2,000.

NOTE: The mean is the sum of all the items in a series divided by the number of items. The standard deviation is a widely used measure of dispersion. It measures the extent to which the individual items in a series are scattered about the mean of the series and indicates the reliability of the mean. For example, for March 1989, the standard deviation for mining (15.8) is high, while for government (1.8) it is low. This is an indication that there is a high variation

among the metropolitan area revisions for mining (i.e., the mean is less representative of the group) and a low variation among the area revisions for government (i.e., the mean is more representative of the group). The standard deviation is found by taking the difference of each item in a series from the mean of the series, squaring each difference, summing the squared differences, dividing the result by the number of items, and obtaining the square root of that figure.

Table 4. Distribution of metropolitan areas by percent revision in total and industry division employment estimates, March 1989

	Below -3.0 percent	-3.0 to -2.1 percent	-2.0 to -1.1 percent	-1.0 to -.1 percent	0 to 1.0 percent	1.1 to 2.0 percent	2.1 to 3.0 percent	Above 3.0 percent	Mean
Total nonfarm employment	4	6	24	41	102	55	18	17	1.3
Mining	53	1	3	0	42	1	1	24	12.6
Construction	58	5	6	4	47	4	8	48	6.4
Manufacturing	44	16	26	35	50	34	23	39	2.5
Transportation and public utilities	66	6	18	11	54	19	17	76	5.0
Wholesale and retail trade	25	12	23	24	59	39	25	60	2.4
Finance, insurance, and real estate	74	14	21	16	65	22	12	43	3.7
Services	15	13	17	22	41	38	42	79	2.7
Government	21	18	18	42	92	31	23	22	1.7

NOTE: Distributions do not include revisions for estimates of less than 2,000.

**HOUSEHOLD DATA
HISTORICAL**

A-1. Employment status of the noninstitutional population 16 years and over, 1956 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											
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
1989	188,081	125,557	66.8	119,030	1,688	117,342	3,199	114,142	6,528	5.2	62,523
Monthly data, seasonally adjusted²											
1989:											
June	187,995	125,777	66.9	119,208	1,666	117,542	3,138	114,404	6,569	5.2	62,218
July	188,149	125,679	66.8	119,102	1,666	117,436	3,217	114,219	6,577	5.2	62,470
August	188,286	125,758	66.8	119,238	1,688	117,550	3,275	114,275	6,520	5.2	62,528
September	188,428	125,725	66.7	119,121	1,702	117,419	3,219	114,200	6,604	5.3	62,703
October	188,580	125,857	66.7	119,294	1,709	117,585	3,197	114,388	6,563	5.2	62,723
November	188,721	126,192	66.9	119,540	1,704	117,836	3,160	114,676	6,652	5.3	62,529
December	188,865	126,246	66.8	119,588	1,700	117,888	3,197	114,691	6,658	5.3	62,619
1990:											
January	188,990	126,094	66.7	119,560	1,697	117,863	3,134	114,728	6,535	5.2	62,896
February	189,090	126,308	66.8	119,713	1,678	118,035	3,079	114,957	6,594	5.2	62,782
March	189,198	126,498	66.9	120,003	1,669	118,334	3,200	115,133	6,495	5.1	62,700
April	189,326	126,543	66.8	119,773	1,657	118,116	3,133	114,983	6,770	5.3	62,783
May	189,467	126,643	66.8	119,989	1,639	118,350	3,305	115,045	6,653	5.3	62,824
June	189,607	126,466	66.7	120,019	1,630	118,389	3,348	115,041	6,447	5.1	63,141

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, 1979 to date

(Numbers in thousands)

Sex, year, and month	Noninsti- tutional 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												
1979	79,509	62,215	78.2	59,096	1,489	57,607	2,686	54,921	3,120	5.0	17,293	
1980	80,877	62,932	77.8	58,665	1,479	57,186	2,709	54,477	4,267	6.8	17,945	
1981	82,023	63,486	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537	
1982	83,052	63,979	77.0	57,800	1,529	56,271	2,736	53,534	6,179	9.7	19,073	
1983	84,064	64,580	76.8	58,320	1,533	56,787	2,704	54,083	6,260	9.7	19,484	
1984	85,156	65,386	76.8	60,642	1,551	59,091	2,668	56,423	4,744	7.3	19,771	
1985	86,025	65,967	76.7	61,447	1,556	59,891	2,535	57,356	4,521	6.9	20,058	
1986 ¹	87,349	66,973	76.7	62,443	1,551	60,892	2,511	58,381	4,530	6.8	20,376	
1987	88,476	67,784	76.6	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692	
1988	89,404	68,474	76.6	64,820	1,547	63,273	2,493	60,780	3,655	5.3	20,930	
1989	90,283	69,360	76.8	65,835	1,520	64,315	2,513	61,802	3,525	5.1	20,923	
Monthly data, seasonally adjusted²												
1989:												
June	90,237	69,542	77.1	66,078	1,501	64,577	2,480	62,097	3,464	5.0	20,695	
July	90,315	69,366	76.8	65,939	1,499	64,440	2,539	61,901	3,427	4.9	20,949	
August	90,384	69,404	76.8	65,919	1,519	64,400	2,592	61,808	3,485	5.0	20,980	
September	90,456	69,360	76.7	65,681	1,531	64,150	2,520	61,630	3,679	5.3	21,096	
October	90,535	69,599	76.9	66,046	1,533	64,513	2,513	62,000	3,553	5.1	20,936	
November	90,606	69,635	76.9	66,011	1,529	64,482	2,477	62,005	3,624	5.2	20,971	
December	90,678	69,725	76.9	66,143	1,525	64,618	2,535	62,083	3,582	5.1	20,953	
1990:												
January	90,772	69,539	76.6	65,943	1,523	64,420	2,501	61,918	3,597	5.2	21,233	
February	90,822	69,639	76.7	66,108	1,506	64,602	2,461	62,141	3,530	5.1	21,183	
March	90,874	69,712	76.7	66,208	1,497	64,711	2,499	62,212	3,505	5.0	21,162	
April	90,942	69,779	76.7	66,043	1,499	64,544	2,415	62,129	3,735	5.4	21,163	
May	91,014	69,737	76.6	66,058	1,472	64,586	2,560	62,026	3,679	5.3	21,277	
June	91,087	69,599	76.4	66,000	1,465	64,535	2,601	61,933	3,599	5.2	21,488	
Annual averages												
WOMEN												
1979	86,951	44,343	51.0	41,325	108	41,217	661	40,556	3,018	6.8	42,608	
1980	88,472	45,611	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,861	
1981	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922	
1982	90,887	47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993	
1983	91,827	48,646	53.0	44,190	143	44,047	680	43,367	4,457	9.2	43,181	
1984	92,924	49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,068	
1985	93,886	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,686	
1986 ¹	94,944	52,568	55.4	48,861	155	48,706	652	48,054	3,707	7.1	42,376	
1987	96,013	53,818	56.1	50,494	160	50,334	666	49,668	3,324	6.2	42,195	
1988	96,918	54,904	56.6	51,858	162	51,696	676	51,020	3,046	5.5	42,014	
1989	97,798	56,198	57.5	53,195	168	53,027	687	52,341	3,003	5.3	41,601	
Monthly data, seasonally adjusted²												
1989:												
June	97,758	56,235	57.5	53,130	165	52,965	658	52,307	3,105	5.5	41,523	
July	97,834	56,313	57.6	53,163	167	52,996	678	52,318	3,150	5.6	41,521	
August	97,902	56,354	57.6	53,319	169	53,150	683	52,467	3,035	5.4	41,548	
September	97,972	56,365	57.5	53,440	171	53,269	699	52,570	2,925	5.2	41,607	
October	98,045	56,258	57.4	53,248	176	53,072	684	52,388	3,010	5.4	41,787	
November	98,115	56,557	57.6	53,529	175	53,354	683	52,671	3,028	5.4	41,558	
December	98,187	56,521	57.6	53,445	175	53,270	662	52,608	3,076	5.4	41,666	
1990:												
January	98,218	56,555	57.6	53,617	174	53,443	633	52,810	2,938	5.2	41,663	
February	98,268	56,669	57.7	53,605	172	53,433	618	52,815	3,064	5.4	41,599	
March	98,324	56,785	57.8	53,795	172	53,623	702	52,921	2,990	5.3	41,539	
April	98,383	56,764	57.7	53,729	158	53,571	718	52,853	3,034	5.3	41,619	
May	98,453	56,906	57.8	53,931	167	53,764	745	53,019	2,975	5.2	41,547	
June	98,520	56,867	57.7	54,019	165	53,854	747	53,108	2,848	5.0	41,653	

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, 1956 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								
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
1989	186,393	123,869	66.5	117,342	6,528	5.3	5.2	5.4
Monthly data, seasonally adjusted ²								
1989:								
June	186,329	124,111	66.6	117,542	6,569	5.3	5.1	5.5
July	186,483	124,013	66.5	117,436	6,577	5.3	5.0	5.6
August	186,598	124,070	66.5	117,550	6,520	5.3	5.1	5.4
September	186,726	124,023	66.4	117,419	6,604	5.3	5.4	5.2
October	186,871	124,148	66.4	117,585	6,563	5.3	5.2	5.4
November	187,017	124,488	66.6	117,836	6,652	5.3	5.3	5.4
December	187,165	124,546	66.5	117,888	6,658	5.3	5.3	5.5
1990:								
January	187,293	124,397	66.4	117,863	6,535	5.3	5.3	5.2
February	187,412	124,630	66.5	118,035	6,594	5.3	5.2	5.4
March	187,529	124,829	66.6	118,334	6,495	5.2	5.1	5.3
April	187,669	124,886	66.5	118,116	6,770	5.4	5.5	5.4
May	187,828	125,004	66.6	118,350	6,653	5.3	5.4	5.2
June	187,977	124,836	66.4	118,389	6,447	5.2	5.3	5.0

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

Explanatory Notes.

² The population figures are not adjusted for seasonal variation.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	June 1990										
	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	187,977	126,307	67.2	119,605	6,702	5.3	61,670	26,827	4,016	3,820	27,008
16 to 19 years	13,806	8,614	62.4	7,134	1,480	17.2	5,191	609	2,314	56	2,212
16 to 17 years	6,603	3,399	51.5	2,667	732	21.5	3,203	270	1,501	25	1,407
18 to 19 years	7,203	5,215	72.4	4,467	748	14.3	1,988	340	813	31	805
20 to 24 years	17,818	14,464	81.2	13,213	1,251	8.6	3,355	1,528	848	87	892
25 to 54 years	105,424	87,900	83.4	84,323	3,577	4.1	17,524	11,807	822	1,531	3,364
25 to 34 years	42,774	35,794	83.7	34,041	1,753	4.9	6,980	4,897	517	370	1,186
25 to 29 years	20,904	17,498	83.7	16,597	902	5.2	3,406	2,302	359	141	604
30 to 34 years	21,870	18,296	83.7	17,444	852	4.7	3,574	2,595	158	229	592
35 to 44 years	37,271	31,608	84.8	30,426	1,182	3.7	5,663	3,872	212	529	1,049
35 to 39 years	19,883	16,861	84.8	16,166	695	4.1	3,021	2,145	108	234	534
40 to 44 years	17,389	14,747	84.8	14,260	487	3.3	2,642	1,728	104	295	515
45 to 54 years	25,378	20,498	80.8	19,856	642	3.1	4,881	3,038	93	631	1,119
45 to 49 years	13,905	11,549	83.1	11,130	419	3.6	2,356	1,481	67	290	518
50 to 54 years	11,473	8,948	78.0	8,726	222	2.5	2,525	1,557	26	341	601
55 to 84 years	21,195	11,728	55.3	11,404	324	2.8	9,467	4,337	15	909	4,206
55 to 59 years	10,515	6,935	65.9	6,728	207	3.0	3,581	1,917	8	471	1,185
60 to 64 years	10,680	4,794	44.9	4,677	117	2.4	5,886	2,421	7	437	3,021
65 years and over	29,734	3,600	12.1	3,530	70	2.0	26,134	8,546	17	1,238	16,333
65 to 69 years	10,173	2,172	21.4	2,125	47	2.1	8,001	2,657	5	305	5,034
70 to 74 years	7,919	904	11.4	887	18	2.0	7,014	2,312	5	218	4,480
75 years and over	11,642	524	4.5	518	6	1.1	11,118	3,577	7	715	6,820
Men											
16 years and over	89,622	69,302	77.3	65,709	3,593	5.2	20,320	654	1,923	2,085	15,658
16 to 19 years	6,946	4,494	64.7	3,730	764	17.0	2,452	65	1,157	36	1,194
16 to 17 years	3,371	1,802	53.4	1,431	371	20.6	1,570	45	747	19	759
18 to 19 years	3,575	2,692	75.3	2,299	393	14.6	882	21	410	17	435
20 to 24 years	8,675	7,729	89.1	7,044	685	8.9	946	57	393	53	443
25 to 54 years	51,606	48,265	93.5	46,371	1,894	3.9	3,340	239	364	1,000	1,738
25 to 34 years	21,040	19,853	94.4	19,929	925	4.7	1,187	93	257	255	582
25 to 29 years	10,262	9,662	94.2	9,186	477	4.9	600	34	180	92	294
30 to 34 years	10,778	10,191	94.6	9,743	448	4.4	587	58	77	163	288
35 to 44 years	18,256	17,226	94.4	16,617	609	3.5	1,030	80	72	354	525
35 to 39 years	9,767	9,259	94.8	8,906	353	3.8	508	48	44	166	250
40 to 44 years	8,489	7,967	93.8	7,711	256	3.2	522	32	28	188	275
45 to 54 years	12,310	11,186	90.9	10,825	361	3.2	1,123	66	35	392	631
45 to 49 years	6,762	6,215	91.9	5,979	236	3.8	547	41	27	185	294
50 to 54 years	5,547	4,971	89.6	4,846	125	2.5	577	25	8	207	337
55 to 64 years	9,994	6,760	67.6	6,544	216	3.2	3,234	95	6	534	2,599
55 to 59 years	4,998	3,958	79.2	3,820	138	3.5	1,040	35	2	286	717
60 to 64 years	4,996	2,802	56.1	2,724	78	2.8	2,194	59	4	249	1,882
65 years and over	12,401	2,054	16.6	2,020	33	1.6	10,347	199	3	461	9,685
65 to 69 years	4,592	1,201	26.1	1,183	18	1.5	3,392	56	-	158	3,178
70 to 74 years	3,493	536	15.4	524	12	2.3	2,956	51	-	107	2,798
75 years and over	4,316	316	7.3	313	3	1.0	4,000	91	2	196	3,709
Women											
16 years and over	98,355	57,005	58.0	53,896	3,109	5.5	41,351	26,173	2,094	1,734	11,349
16 to 19 years	6,860	4,121	60.1	3,405	716	17.4	2,739	544	1,157	19	1,019
16 to 17 years	3,231	1,597	49.4	1,237	361	22.6	1,634	225	754	6	648
18 to 19 years	3,629	2,523	69.5	2,168	355	14.1	1,106	319	403	13	370
20 to 24 years	9,143	6,735	73.7	6,169	566	8.4	2,409	1,471	455	33	449
25 to 54 years	53,818	39,635	73.6	37,952	1,683	4.2	14,184	11,568	458	531	1,627
25 to 34 years	21,734	15,941	73.3	15,113	829	5.2	5,793	4,804	259	115	614
25 to 29 years	10,642	7,836	73.6	7,411	425	5.4	2,806	2,267	179	49	310
30 to 34 years	11,092	8,105	73.1	7,702	403	5.0	2,987	2,537	80	66	304
35 to 44 years	19,015	14,382	75.6	13,809	573	4.0	4,633	3,792	140	176	525
35 to 39 years	10,118	7,602	75.2	7,260	343	4.5	2,514	2,097	64	88	285
40 to 44 years	8,899	6,780	76.2	6,549	231	3.4	2,119	1,696	76	108	240
45 to 54 years	13,069	9,311	71.2	9,030	281	3.0	3,758	2,972	58	240	488
45 to 49 years	7,143	5,334	74.7	5,151	183	3.4	1,809	1,440	40	105	223
50 to 54 years	5,926	3,977	67.1	3,880	98	2.5	1,948	1,531	18	134	264
55 to 64 years	11,201	4,968	44.4	4,861	107	2.2	6,233	4,243	9	374	1,607
55 to 59 years	5,518	2,977	53.9	2,908	89	2.3	2,541	1,882	6	186	468
60 to 64 years	5,683	1,991	35.0	1,953	38	1.9	3,692	2,361	3	188	1,139
65 years and over	17,333	1,547	8.9	1,510	37	2.4	15,786	8,347	14	777	6,649
65 to 69 years	5,581	971	17.4	943	29	3.0	4,609	2,601	5	147	1,856
70 to 74 years	4,426	368	8.3	363	5	1.5	4,058	2,260	5	111	1,682
75 years and over	7,326	207	2.8	205	3	1.2	7,119	3,486	4	518	3,110

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	June 1990										
	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	160,365	108,528	67.7	103,638	4,890	4.5	51,837	23,017	2,737	2,857	23,224
16 to 19 years	11,109	7,362	66.3	6,322	1,040	14.1	3,747	455	1,558	45	1,689
16 to 17 years	5,259	2,897	55.1	2,385	513	17.7	2,362	223	1,027	21	1,091
18 to 19 years	5,850	4,465	76.3	3,937	528	11.8	1,385	232	530	24	598
20 to 24 years	14,682	12,275	83.6	11,370	904	7.4	2,407	1,140	563	61	644
25 to 54 years	89,413	75,229	84.1	72,604	2,625	3.5	14,184	9,861	591	1,113	2,619
25 to 34 years	35,827	30,324	84.6	29,101	1,223	4.0	5,504	3,995	362	278	869
25 to 29 years	17,407	14,759	84.8	14,111	648	4.4	2,647	1,856	249	110	432
30 to 34 years	18,421	15,564	84.5	14,989	575	3.7	2,857	2,139	113	168	437
35 to 44 years	31,801	27,167	85.4	26,259	908	3.3	4,634	3,278	164	384	808
35 to 39 years	16,817	14,381	85.5	13,856	525	3.6	2,436	1,785	85	151	415
40 to 44 years	14,984	12,786	85.3	12,402	384	3.0	2,198	1,493	79	233	393
45 to 54 years	21,784	17,739	81.4	17,245	494	2.8	4,046	2,588	64	451	942
45 to 49 years	11,937	9,998	83.8	9,672	327	3.3	1,939	1,253	44	206	435
50 to 54 years	9,847	7,740	78.6	7,573	167	2.2	2,107	1,335	20	245	506
55 to 64 years	18,541	10,405	56.1	10,140	265	2.5	8,135	3,772	14	681	3,669
55 to 59 years	9,158	6,153	67.2	5,981	171	2.8	3,005	1,655	7	348	996
60 to 64 years	9,383	4,252	45.3	4,159	94	2.2	5,130	2,117	7	333	2,673
65 years and over	26,620	3,257	12.2	3,202	55	1.7	23,364	7,789	13	958	14,604
65 to 69 years	8,992	1,956	21.8	1,922	34	1.8	7,036	2,388	6	226	4,415
70 to 74 years	7,119	820	11.5	805	16	1.9	6,299	2,101	1	165	4,032
75 years and over	10,509	480	4.6	475	5	1.0	10,029	3,300	6	566	6,157
Men											
16 years and over	77,063	60,200	78.1	57,561	2,638	4.4	16,863	482	1,293	1,605	13,483
16 to 19 years	5,607	3,855	68.8	3,321	534	13.8	1,752	48	777	30	897
16 to 17 years	2,692	1,541	57.2	1,285	256	16.6	1,151	36	517	15	584
18 to 19 years	2,914	2,313	79.4	2,036	278	12.0	601	12	260	16	313
20 to 24 years	7,207	6,555	91.0	6,058	497	7.6	652	38	255	38	322
25 to 54 years	44,307	41,841	94.4	40,446	1,395	3.3	2,466	168	253	741	1,304
25 to 34 years	17,854	17,008	95.3	16,345	663	3.9	846	53	181	196	416
25 to 29 years	8,643	8,207	95.0	7,855	352	4.3	436	22	123	73	216
30 to 34 years	9,212	8,801	95.5	8,490	311	3.5	410	31	57	123	199
35 to 44 years	15,773	15,035	95.3	14,576	459	3.1	738	60	53	253	372
35 to 39 years	8,372	8,031	95.9	7,762	270	3.4	340	34	31	103	172
40 to 44 years	7,401	7,004	94.6	6,814	190	2.7	397	26	22	150	199
45 to 54 years	10,680	9,798	91.7	9,252	273	2.8	882	54	19	292	517
45 to 49 years	5,869	5,443	92.7	5,262	181	3.3	427	32	14	136	245
50 to 54 years	4,811	4,355	90.5	4,263	92	2.1	456	22	5	156	272
55 to 64 years	8,825	6,055	68.6	5,870	185	3.1	2,770	67	6	423	2,274
55 to 59 years	4,402	3,554	80.8	3,435	119	3.4	847	22	2	226	597
60 to 64 years	4,423	2,500	56.5	2,435	66	2.6	1,923	45	4	197	1,677
65 years and over	11,117	1,894	17.0	1,866	28	1.5	9,223	161	2	373	8,686
65 to 69 years	4,111	1,110	27.0	1,096	14	1.3	3,000	50	1	133	2,817
70 to 74 years	3,109	487	15.7	477	10	2.1	2,622	34	-	82	2,506
75 years and over	3,897	296	7.6	293	3	1.1	3,601	78	2	158	3,363
Women											
16 years and over	83,302	48,329	58.0	46,077	2,252	4.7	34,974	22,536	1,444	1,252	9,741
16 to 19 years	5,503	3,508	63.7	3,001	507	14.4	1,995	407	781	14	792
16 to 17 years	2,567	1,356	52.8	1,099	257	18.9	1,211	187	511	6	507
18 to 19 years	2,935	2,152	73.3	1,902	250	11.6	784	220	270	8	285
20 to 24 years	7,475	5,720	76.5	5,312	407	7.1	1,755	1,102	308	23	322
25 to 54 years	45,106	33,388	74.0	32,158	1,230	3.7	11,718	9,693	338	373	1,314
25 to 34 years	17,973	13,315	74.1	12,755	560	4.2	4,658	3,941	181	82	453
25 to 29 years	8,764	6,552	74.8	6,256	296	4.5	2,212	1,834	126	37	215
30 to 34 years	9,209	6,763	73.4	6,499	264	3.9	2,446	2,108	56	45	238
35 to 44 years	16,029	12,132	75.7	11,683	449	3.7	3,897	3,218	111	131	436
35 to 39 years	8,445	6,349	75.2	6,094	255	4.0	2,096	1,752	54	48	243
40 to 44 years	7,583	5,782	76.3	5,589	194	3.4	1,801	1,467	57	84	194
45 to 54 years	11,104	7,941	71.5	7,720	221	2.8	3,163	2,534	45	159	425
45 to 49 years	6,068	4,556	75.1	4,410	146	3.2	1,513	1,222	30	70	190
50 to 54 years	5,036	3,386	67.2	3,310	76	2.2	1,651	1,313	15	89	234
55 to 64 years	9,716	4,350	44.8	4,270	80	1.8	5,365	3,705	8	257	1,395
55 to 59 years	4,756	2,598	54.6	2,546	52	2.0	2,158	1,632	5	122	399
60 to 64 years	4,959	1,752	35.3	1,724	28	1.6	3,207	2,073	3	135	996
65 years and over	15,503	1,363	8.8	1,335	27	2.0	14,141	7,628	11	585	5,917
65 to 69 years	4,881	846	17.3	826	20	2.4	4,036	2,339	5	94	1,598
70 to 74 years	4,010	333	8.3	327	5	1.6	3,677	2,068	1	83	1,526
75 years and over	6,612	184	2.8	182	2	.9	6,428	3,221	5	408	2,794

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	June 1990										
	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	21,289	13,652	64.1	12,118	1,534	11.2	7,637	2,827	884	856	3,070
16 to 19 years	2,147	1,006	46.9	616	390	38.8	1,140	127	582	11	440
16 to 17 years	1,064	404	38.0	205	199	49.3	660	38	354	4	265
18 to 19 years	1,082	602	55.7	411	191	31.8	480	89	208	7	176
20 to 24 years	2,442	1,710	70.0	1,408	301	17.6	733	311	196	24	202
25 to 54 years	12,084	9,633	79.7	8,848	786	8.2	2,450	1,366	127	356	602
25 to 34 years	5,348	4,244	79.4	3,784	460	10.8	1,103	674	85	80	265
25 to 29 years	2,695	2,136	79.3	1,919	217	10.1	559	330	57	30	142
30 to 34 years	2,653	2,108	79.5	1,865	244	11.6	544	344	28	50	123
35 to 44 years	4,072	3,355	82.4	3,131	223	6.7	717	375	23	123	197
35 to 39 years	2,273	1,864	82.0	1,722	142	7.6	409	231	8	71	98
40 to 44 years	1,799	1,491	82.9	1,410	81	5.4	308	143	14	52	98
45 to 54 years	2,664	2,034	76.4	1,932	102	5.0	630	317	19	153	140
45 to 49 years	1,404	1,105	78.7	1,039	66	6.0	299	153	15	66	65
50 to 54 years	1,260	929	73.7	893	36	3.8	331	164	4	87	76
55 to 64 years	2,114	1,041	49.2	994	46	4.5	1,074	424	1	207	442
55 to 59 years	1,085	609	56.2	583	26	4.3	475	208	-	112	155
60 to 64 years	1,029	431	41.9	411	20	4.7	598	216	1	94	287
65 years and over	2,502	262	10.5	252	10	3.9	2,240	599	-	258	1,384
65 to 69 years	909	158	17.4	149	9	5.6	751	197	-	70	484
70 to 74 years	833	74	11.7	73	1	(¹)	559	171	-	48	340
75 years and over	961	30	3.1	29	1	(¹)	931	231	-	140	561
Men											
16 years and over	9,564	6,836	71.5	6,050	787	11.5	2,727	152	403	412	1,760
16 to 19 years	1,060	511	48.2	308	204	39.8	549	16	275	6	252
16 to 17 years	543	213	39.3	110	103	48.2	330	8	168	4	149
18 to 19 years	517	298	57.6	197	101	33.8	219	8	107	2	103
20 to 24 years	1,115	903	81.0	744	159	17.6	212	17	83	15	96
25 to 54 years	5,435	4,764	87.7	4,366	398	8.4	670	63	44	214	349
25 to 34 years	2,424	2,176	89.8	1,961	216	9.9	248	36	27	49	136
25 to 29 years	1,234	1,119	90.7	1,023	96	8.6	115	12	19	18	67
30 to 34 years	1,190	1,057	88.8	938	119	11.3	133	25	8	31	69
35 to 44 years	1,821	1,585	87.1	1,467	118	7.4	236	17	9	86	124
35 to 39 years	1,016	884	87.0	818	66	7.4	132	13	6	51	62
40 to 44 years	805	702	87.1	649	52	7.5	103	4	3	35	62
45 to 54 years	1,189	1,003	84.3	938	65	6.5	186	10	8	79	89
45 to 49 years	620	535	86.3	495	40	7.5	85	7	6	34	37
50 to 54 years	570	468	82.1	443	25	5.3	102	3	2	45	52
55 to 64 years	943	543	57.6	518	25	4.6	400	23	-	101	276
55 to 59 years	479	309	64.5	296	13	4.1	170	13	-	53	104
60 to 64 years	464	234	50.4	221	13	5.4	230	10	-	48	172
65 years and over	1,011	115	11.4	114	-	-	896	33	-	76	787
65 to 69 years	369	61	16.4	60	-	(¹)	309	6	-	19	284
70 to 74 years	295	44	15.0	44	1	(¹)	251	17	-	20	215
75 years and over	346	10	3.0	10	-	(¹)	336	10	-	38	288
Women											
16 years and over	11,725	6,816	58.1	6,068	747	11.0	4,910	2,675	482	443	1,309
16 to 19 years	1,086	495	45.6	308	187	37.7	591	112	286	5	188
16 to 17 years	521	191	36.6	94	96	50.5	331	30	186	-	115
18 to 19 years	565	305	53.9	214	90	29.7	261	82	100	5	73
20 to 24 years	1,327	807	60.8	665	142	17.6	520	294	112	9	106
25 to 54 years	6,649	4,869	73.2	4,481	387	8.0	1,780	1,302	83	142	253
25 to 34 years	2,923	2,066	70.7	1,823	245	11.8	855	638	58	31	129
25 to 29 years	1,461	1,017	69.6	896	120	11.8	444	319	38	12	76
30 to 34 years	1,462	1,051	71.9	927	124	11.8	411	319	20	19	53
35 to 44 years	2,251	1,769	78.6	1,664	105	6.0	482	358	14	37	73
35 to 39 years	1,257	980	78.0	904	77	7.8	277	219	2	20	36
40 to 44 years	994	789	79.4	760	29	3.6	205	139	11	18	37
45 to 54 years	1,474	1,031	69.9	994	37	3.6	443	307	11	74	51
45 to 49 years	784	570	72.7	544	26	4.6	214	145	9	32	27
50 to 54 years	691	461	66.8	450	11	2.4	230	162	2	42	24
55 to 64 years	1,171	498	42.5	477	21	4.2	673	401	1	105	166
55 to 59 years	606	301	49.6	287	13	4.5	305	195	-	59	51
60 to 64 years	565	197	34.9	190	8	3.9	368	206	1	46	115
65 years and over	1,492	147	9.9	137	10	6.6	1,345	566	-	182	597
65 to 69 years	539	98	18.1	89	9	9.0	442	191	-	52	200
70 to 74 years	337	30	8.8	30	-	(¹)	308	155	-	28	125
75 years and over	615	20	3.2	19	1	(¹)	595	221	-	102	273

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age and sex	June 1990								Not in labor force
	Civilian noninstitutional population	Civilian labor force							
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
TOTAL									
16 years and over	27,612	17,778	64.4	15,967	218	15,748	1,811	10.2	9,834
16 to 19 years	2,697	1,252	46.4	812	22	790	440	35.1	1,445
16 to 17 years	1,343	502	37.4	282	15	268	219	43.7	841
18 to 19 years	1,353	750	55.4	530	7	523	220	29.4	603
20 to 24 years	3,137	2,189	69.8	1,843	17	1,825	346	15.8	948
25 to 54 years	16,011	12,671	79.1	11,719	142	11,577	952	7.5	3,340
25 to 34 years	6,947	5,471	78.8	4,941	55	4,886	530	9.7	1,476
25 to 29 years	3,498	2,739	78.3	2,485	44	2,441	254	9.3	759
30 to 34 years	3,449	2,732	79.2	2,455	11	2,444	277	10.1	717
35 to 44 years	5,470	4,441	81.2	4,167	57	4,111	274	6.2	1,029
35 to 39 years	3,065	2,480	80.9	2,310	30	2,279	171	6.9	585
40 to 44 years	2,404	1,961	81.5	1,858	27	1,831	103	5.3	444
45 to 54 years	3,594	2,759	76.8	2,611	30	2,581	148	5.4	835
45 to 49 years	1,968	1,551	78.8	1,458	21	1,438	93	6.0	417
50 to 54 years	1,626	1,208	74.3	1,153	10	1,143	55	4.6	418
55 to 64 years	2,654	1,323	49.8	1,265	26	1,239	59	4.4	1,331
55 to 59 years	1,357	782	57.6	746	11	735	36	4.5	576
60 to 64 years	1,297	541	41.7	518	15	503	23	4.3	756
65 years and over	3,113	343	11.0	328	11	317	15	4.5	2,770
65 to 69 years	1,181	216	18.3	203	5	198	12	5.7	965
70 to 74 years	800	84	10.5	82	1	81	2	2.6	716
75 years and over	1,133	44	3.8	43	5	38	1	(¹)	1,089
Men									
16 years and over	12,559	9,102	72.5	8,148	178	7,970	955	10.5	3,457
16 to 19 years	1,339	639	47.7	409	22	387	230	36.0	700
16 to 17 years	679	261	38.4	145	15	131	115	44.2	418
18 to 19 years	660	379	57.4	264	7	256	115	30.4	282
20 to 24 years	1,468	1,174	80.0	986	15	971	188	16.0	294
25 to 54 years	7,299	6,424	88.0	5,925	114	5,811	499	7.8	875
25 to 34 years	3,186	2,845	89.3	2,583	46	2,537	262	9.2	341
25 to 29 years	1,620	1,455	89.8	1,331	36	1,295	124	8.5	164
30 to 34 years	1,566	1,390	88.7	1,253	10	1,243	137	9.9	176
35 to 44 years	2,483	2,191	88.2	2,042	41	2,000	149	6.8	293
35 to 39 years	1,395	1,227	88.0	1,144	22	1,122	83	6.8	167
40 to 44 years	1,089	963	88.5	897	19	878	66	6.9	125
45 to 54 years	1,630	1,389	85.2	1,300	27	1,273	88	6.4	241
45 to 49 years	893	773	86.5	718	17	700	55	7.1	120
50 to 54 years	737	616	83.6	583	10	573	33	5.4	121
55 to 64 years	1,169	706	60.3	674	15	659	32	4.5	464
55 to 59 years	596	403	67.7	385	7	378	19	4.7	193
60 to 64 years	573	302	52.7	289	8	281	13	4.2	271
65 years and over	1,284	160	12.4	154	11	143	6	3.6	1,125
65 to 69 years	482	90	18.7	87	5	81	4	3.9	392
70 to 74 years	383	49	12.8	47	1	46	2	(¹)	334
75 years and over	419	20	4.9	20	5	16	-	(¹)	399
Women									
16 years and over	15,053	8,676	57.6	7,819	40	7,778	857	9.9	6,377
16 to 19 years	1,357	613	45.1	403	-	403	209	34.2	745
16 to 17 years	664	241	36.3	137	-	137	104	43.1	423
18 to 19 years	693	372	53.6	266	-	266	105	28.4	322
20 to 24 years	1,669	1,015	60.8	857	2	855	158	15.6	654
25 to 54 years	8,712	6,246	71.7	5,794	28	5,766	453	7.2	2,466
25 to 34 years	3,761	2,626	69.8	2,358	9	2,348	268	10.2	1,135
25 to 29 years	1,878	1,284	68.4	1,155	8	1,147	129	10.1	594
30 to 34 years	1,883	1,342	71.3	1,203	1	1,202	139	10.4	541
35 to 44 years	2,987	2,250	75.3	2,126	16	2,110	124	5.5	736
35 to 39 years	1,671	1,253	75.0	1,165	8	1,157	87	7.0	418
40 to 44 years	1,316	998	75.8	961	8	953	37	3.7	318
45 to 54 years	1,964	1,370	69.8	1,311	3	1,307	60	4.4	594
45 to 49 years	1,075	778	72.4	741	3	737	38	4.9	297
50 to 54 years	889	592	66.5	570	-	570	22	3.7	298
55 to 64 years	1,485	618	41.6	591	11	580	27	4.3	868
55 to 59 years	761	378	49.7	362	4	358	17	4.4	383
60 to 64 years	724	239	33.0	229	6	222	10	4.3	485
65 years and over	1,829	184	10.1	174	-	174	10	5.3	1,645
65 to 69 years	699	126	18.0	117	-	117	9	7.0	574
70 to 74 years	416	35	8.4	35	-	35	-	(¹)	361
75 years and over	714	23	3.2	22	-	22	1	(¹)	691

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	
	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990
TOTAL								
Civilian noninstitutional population	186,329	187,977	81,592	82,676	90,526	91,495	14,211	13,806
Civilian labor force	125,569	126,307	64,325	64,808	51,918	52,884	9,326	8,614
Percent of population	67.4	67.2	78.8	78.4	57.4	57.8	65.6	62.4
Employed	118,719	119,605	61,688	61,979	49,392	50,491	7,639	7,134
Agriculture	3,494	3,714	2,439	2,563	684	766	371	386
Nonagricultural industries	115,226	115,891	59,249	59,417	48,708	49,726	7,268	6,749
Unemployed	6,850	6,702	2,636	2,829	2,526	2,393	1,687	1,480
Unemployment rate	5.5	5.3	4.1	4.4	4.9	4.5	18.1	17.2
Not in labor force	60,760	61,670	17,267	17,868	38,608	38,611	4,885	5,191
White								
Civilian noninstitutional population	159,297	160,365	70,618	71,456	77,116	77,800	11,564	11,109
Civilian labor force	107,762	108,528	55,985	56,345	43,847	44,821	7,931	7,362
Percent of population	67.6	67.7	79.3	78.9	56.9	57.6	68.6	66.3
Employed	102,869	103,638	54,035	54,240	42,067	43,076	6,768	6,322
Agriculture	3,296	3,496	2,290	2,407	656	725	350	364
Nonagricultural industries	99,573	100,143	51,744	51,834	41,411	42,351	6,418	5,958
Unemployed	4,893	4,890	1,950	2,104	1,780	1,745	1,163	1,040
Unemployment rate	4.5	4.5	3.5	3.7	4.1	3.9	14.7	14.1
Not in labor force	51,535	51,837	14,632	15,111	33,269	32,979	3,633	3,747
Black								
Civilian noninstitutional population	21,012	21,289	8,363	8,504	10,474	10,639	2,175	2,147
Civilian labor force	13,751	13,652	6,240	6,325	6,343	6,320	1,168	1,006
Percent of population	65.4	64.1	74.6	74.4	60.6	59.4	53.7	46.9
Employed	12,023	12,118	5,653	5,742	5,680	5,760	690	616
Agriculture	146	149	108	107	21	25	18	17
Nonagricultural industries	11,877	11,969	5,545	5,635	5,659	5,735	672	599
Unemployed	1,728	1,534	588	583	663	560	478	390
Unemployment rate	12.6	11.2	9.4	9.2	10.5	8.9	40.9	38.8
Not in labor force	7,261	7,637	2,122	2,178	4,131	4,319	1,008	1,140

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	June 1990									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
Total	Full time ¹			Part time ¹	Total	Looking for full-time work	Looking for part-time work			
TOTAL ENROLLED										
Total, 16 to 24 years	6,947	3,659	52.7	3,199	991	2,207	461	220	240	12.6
16 to 19 years	4,446	2,054	46.2	1,731	348	1,383	323	141	182	15.7
20 to 24 years	2,501	1,605	64.2	1,468	643	824	137	79	58	8.6
High school	3,497	1,445	41.3	1,159	147	1,013	285	136	149	19.8
College	3,451	2,214	64.2	2,039	845	1,195	175	84	91	7.9
Full-time students	2,529	1,419	56.1	1,293	452	841	126	67	59	8.9
Part-time students	922	796	86.3	746	393	353	49	17	32	6.2
Men, 16 to 24 years	3,393	1,782	52.5	1,532	486	1,047	250	133	117	14.0
16 to 19 years	2,196	1,004	45.7	834	171	663	170	80	90	16.9
20 to 24 years	1,197	779	65.0	698	315	384	80	53	27	10.3
High school	1,828	759	41.5	601	84	517	158	84	74	20.8
College	1,565	1,023	65.4	931	402	529	92	49	43	9.0
Full-time students	1,182	683	57.8	620	237	383	63	36	27	9.2
Part-time students	384	340	88.7	311	164	147	29	13	16	8.6
Women, 16 to 24 years	3,554	1,877	52.8	1,666	506	1,160	211	88	123	11.2
16 to 19 years	2,250	1,050	46.7	897	177	719	154	62	92	14.6
20 to 24 years	1,304	827	63.4	770	329	441	57	26	31	6.9
High school	1,669	686	41.1	558	63	495	128	52	76	18.6
College	1,886	1,191	63.2	1,108	443	665	83	36	48	7.0
Full-time students	1,348	736	54.6	673	215	458	63	31	32	8.6
Part-time students	538	456	84.7	435	229	207	20	4	16	4.5
White										
Total, 16 to 24 years	5,317	3,063	57.6	2,719	860	1,859	344	164	180	11.2
16 to 19 years	3,382	1,732	51.2	1,492	317	1,175	240	105	135	13.8
20 to 24 years	1,936	1,332	68.8	1,227	543	683	105	59	45	7.9
Men	2,597	1,496	57.6	1,304	426	879	191	105	87	12.8
Women	2,720	1,567	57.6	1,414	434	980	153	59	94	9.8
High school	2,597	1,208	46.5	986	130	856	222	101	121	18.4
College	2,720	1,855	68.2	1,733	730	1,003	122	63	59	6.6
Full-time students	1,986	1,212	61.0	1,125	401	725	86	48	39	7.1
Part-time students	734	643	87.6	608	329	279	36	16	20	5.5
Black										
Total, 16 to 24 years	1,147	411	35.8	317	90	227	94	49	45	22.9
16 to 19 years	771	225	29.1	153	18	135	71	34	37	31.8
20 to 24 years	377	186	49.5	164	72	92	23	15	8	12.1
Men	533	187	35.0	144	36	108	43	22	21	22.9
Women	614	224	36.5	173	54	119	51	27	24	22.8
High school	678	168	24.7	112	8	104	56	34	21	33.1
College	470	243	51.8	205	82	123	38	15	24	15.8
Full-time students	347	145	41.7	111	31	80	34	15	18	23.2
Part-time students	123	99	80.4	94	51	42	5	-	5	4.9
Hispanic origin										
Total, 16 to 24 years	717	255	35.5	209	63	146	46	16	30	18.1
16 to 19 years	532	147	27.6	117	17	100	30	10	21	20.5
20 to 24 years	186	108	58.0	92	46	46	16	6	10	14.9
Men	357	135	37.9	111	25	86	25	15	10	18.3
Women	360	119	33.1	98	38	60	21	-	21	17.9
High school	492	130	26.4	97	10	86	33	14	19	25.3
College	225	125	55.5	112	52	60	13	1	12	10.6
Full-time students	163	72	44.1	62	21	42	10	2	8	(?)
Part-time students	62	53	(?)	49	31	18	4	-	4	(?)

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	June 1990									
	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	24,677	19,419	78.7	17,149	13,096	4,053	2,270	1,780	490	11.7
16 to 19 years	9,360	6,561	70.1	5,404	3,016	2,388	1,157	800	356	17.6
20 to 24 years	15,317	12,858	83.9	11,745	10,080	1,665	1,113	980	134	8.7
Less than 4 years of high school	8,334	5,288	63.4	4,213	2,517	1,696	1,075	762	313	20.3
4 years of high school	9,593	8,049	83.9	7,338	5,993	1,345	711	634	77	8.8
1 to 3 years of college	4,998	4,455	89.1	4,068	3,238	829	388	291	97	8.7
4 years of college or more	1,751	1,627	92.9	1,530	1,349	181	97	94	2	5.9
Men, 16 to 24 years	12,228	10,441	85.4	9,242	7,492	1,750	1,199	1,005	194	11.5
16 to 19 years	4,750	3,490	73.5	2,896	1,766	1,129	594	437	158	17.0
20 to 24 years	7,477	6,950	93.0	6,346	5,725	621	605	568	36	8.7
Less than 4 years of high school	4,369	3,182	72.8	2,601	1,770	832	580	447	134	18.2
4 years of high school	4,744	4,345	91.6	3,963	3,415	548	383	361	22	8.8
1 to 3 years of college	2,301	2,153	93.6	1,957	1,635	321	196	158	38	9.1
4 years of college or more	814	761	93.5	721	672	49	40	39	1	5.2
Women, 16 to 24 years	12,449	8,978	72.1	7,907	5,605	2,302	1,071	775	296	11.9
16 to 19 years	4,610	3,070	66.6	2,508	1,250	1,258	562	364	199	18.3
20 to 24 years	7,840	5,908	75.4	5,399	4,355	1,044	508	411	97	8.6
Less than 4 years of high school	3,966	2,106	53.1	1,611	747	864	495	315	180	23.5
4 years of high school	4,849	3,704	76.4	3,375	2,578	798	328	273	55	8.9
1 to 3 years of college	2,697	2,302	85.4	2,111	1,603	508	191	132	59	8.3
4 years of college or more	938	866	92.4	809	677	132	57	55	1	6.5
White										
Total, 16 to 24 years	20,474	16,574	81.0	14,974	11,459	3,515	1,601	1,277	324	9.7
16 to 19 years	7,728	5,631	72.9	4,830	2,735	2,095	801	563	238	14.2
20 to 24 years	12,746	10,943	85.9	10,143	8,723	1,420	800	714	86	7.3
Men	10,217	8,914	87.2	8,075	6,569	1,506	839	715	124	9.4
Women	10,257	7,660	74.7	6,899	4,890	2,010	761	562	200	9.9
Less than 4 years of high school	6,701	4,445	66.3	3,702	2,228	1,474	743	547	197	16.7
4 years of high school	7,919	6,819	86.1	6,331	5,195	1,136	488	439	48	7.2
1 to 3 years of college	4,297	3,856	89.7	3,577	2,825	752	279	202	77	7.2
4 years of college or more	1,557	1,455	93.5	1,364	1,210	154	91	88	2	6.2
Black										
Total, 16 to 24 years	3,442	2,305	67.0	1,707	1,268	440	598	449	149	25.9
16 to 19 years	1,376	782	56.8	463	224	239	319	213	106	40.8
20 to 24 years	2,066	1,523	73.7	1,245	1,043	201	279	236	43	18.3
Men	1,642	1,227	74.7	908	715	192	320	258	62	26.1
Women	1,800	1,078	59.9	800	553	247	278	191	87	25.8
Less than 4 years of high school	1,363	695	51.0	392	214	179	303	196	107	43.6
4 years of high school	1,432	1,053	73.6	847	664	183	206	178	28	19.6
1 to 3 years of college	529	449	84.9	365	307	57	85	70	15	18.9
4 years of college or more	117	107	91.3	103	83	20	4	4	-	3.9
Hispanic origin										
Total, 16 to 24 years	2,670	1,977	74.0	1,760	1,488	272	216	206	10	10.9
16 to 19 years	867	565	65.2	451	332	119	114	106	8	20.2
20 to 24 years	1,803	1,412	78.3	1,309	1,156	153	102	101	1	7.2
Men	1,389	1,215	87.5	1,089	962	127	126	119	7	10.4
Women	1,281	761	59.4	671	526	145	90	87	3	11.8
Less than 4 years of high school	1,494	981	65.6	849	724	125	132	122	10	13.4
4 years of high school	853	714	83.7	649	553	96	65	65	-	9.1
1 to 3 years of college	274	236	85.9	218	169	49	18	18	-	7.7
4 years of college or more	49	46	(²)	45	43	2	1	1	-	(²)

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

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

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

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

A-8. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	June 1989	June 1990	Total		Employed		Unemployed			
			June 1989	June 1990	June 1989	June 1990	Number		Percent of labor force	
							June 1989	June 1990	June 1989	June 1990
VIETNAM-ERA VETERANS										
Total, 35 years and over	7,439	7,634	6,828	6,966	6,628	6,752	200	213	2.9	3.1
35 to 49 years	6,472	6,521	6,182	6,138	6,006	5,953	176	185	2.8	3.0
35 to 39 years	1,760	1,425	1,667	1,324	1,600	1,266	67	58	4.0	4.4
40 to 44 years	3,281	3,314	3,165	3,145	3,096	3,063	69	81	2.2	2.6
45 to 49 years	1,431	1,782	1,350	1,670	1,310	1,624	40	46	3.0	2.8
50 years and over	967	1,113	646	827	622	799	24	28	3.7	3.4
NONVETERANS										
Total, 35 to 49 years	16,142	17,233	15,045	16,127	14,619	15,517	426	610	2.8	3.8
35 to 39 years	7,404	7,942	6,986	7,551	6,786	7,282	200	269	2.9	3.6
40 to 44 years	4,657	5,070	4,340	4,724	4,201	4,551	139	173	3.2	3.7
45 to 49 years	4,081	4,221	3,719	3,851	3,633	3,683	86	168	2.3	4.4

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces; published data

are limited to those 35 to 49 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Sex, age, and race	June 1990							
	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	100,750	98,880	1,870	18,855	15,206	3,649	5,478	1,223
16 to 19 years	3,364	3,142	222	3,770	2,818	952	942	538
16 to 17 years	681	619	61	1,986	1,554	432	368	364
18 to 19 years	2,684	2,523	161	1,784	1,264	520	574	174
20 years and over	97,386	95,738	1,648	15,084	12,388	2,697	4,537	685
20 to 24 years	10,724	10,425	299	2,489	1,861	628	1,059	192
25 years and over	86,663	85,314	1,349	12,595	10,526	2,068	3,478	493
25 to 54 years	75,423	74,263	1,161	8,900	7,213	1,687	3,181	395
55 years and over	11,239	11,051	188	3,695	3,314	382	296	98
Men, 16 years and over	59,674	58,663	1,011	6,036	4,430	1,605	3,156	437
16 to 19 years	1,937	1,823	114	1,793	1,316	476	516	248
20 years and over	57,736	56,840	896	4,243	3,114	1,129	2,639	190
20 to 24 years	6,040	5,877	163	1,004	691	313	621	64
25 years and over	51,697	50,963	734	3,239	2,424	815	2,018	126
25 to 54 years	44,645	44,011	634	1,727	1,070	656	1,815	79
55 years and over	7,052	6,952	100	1,512	1,353	159	203	47
Women, 16 years and over	41,077	40,217	860	12,819	10,775	2,044	2,323	786
16 to 19 years	1,427	1,319	108	1,978	1,502	475	425	291
20 years and over	39,650	38,899	751	10,841	9,273	1,568	1,897	495
20 to 24 years	4,684	4,548	136	1,485	1,170	315	438	128
25 years and over	34,966	34,351	615	9,356	8,103	1,253	1,460	367
25 to 54 years	30,779	30,252	527	7,173	6,143	1,030	1,367	316
55 years and over	4,187	4,099	88	2,183	1,960	223	93	51
White								
Men, 16 years and over	52,390	51,509	882	5,171	3,885	1,286	2,325	313
16 to 19 years	1,765	1,667	98	1,556	1,155	402	368	166
20 years and over	50,626	49,842	784	3,614	2,730	884	1,957	147
20 to 24 years	5,230	5,084	146	828	576	251	452	45
25 years and over	45,396	44,757	639	2,787	2,154	633	1,505	102
25 to 54 years	39,045	38,496	548	1,401	902	500	1,336	59
55 years and over	6,351	6,261	90	1,385	1,252	133	170	43
Women, 16 years and over	34,665	33,953	711	11,413	9,742	1,671	1,651	600
16 to 19 years	1,287	1,194	93	1,714	1,313	401	300	207
20 years and over	33,377	32,759	618	9,699	8,428	1,270	1,352	394
20 to 24 years	4,037	3,916	121	1,276	1,027	249	321	86
25 years and over	29,341	28,843	498	8,423	7,402	1,021	1,031	307
25 to 54 years	25,668	25,247	421	6,490	5,643	847	966	265
55 years and over	3,673	3,596	77	1,933	1,758	175	65	43
Black								
Men, 16 years and over	5,424	5,313	111	625	361	264	687	100
16 to 19 years	131	115	16	176	117	59	132	71
20 years and over	5,293	5,199	95	449	244	205	555	29
20 to 24 years	620	605	15	124	71	53	147	12
25 years and over	4,673	4,594	79	325	173	153	407	17
25 to 54 years	4,135	4,064	71	231	96	135	384	15
55 years and over	538	530	8	94	77	17	23	3
Women, 16 years and over	4,986	4,852	134	1,082	775	307	590	157
16 to 19 years	111	97	15	197	135	63	115	72
20 years and over	4,875	4,756	120	885	641	244	476	85
20 to 24 years	496	481	14	169	110	59	103	39
25 years and over	4,380	4,274	106	716	530	185	372	46
25 to 54 years	3,976	3,880	95	506	360	146	348	39
55 years and over	404	394	10	210	170	40	24	7

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	June 1990									
	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	101,244	67.9	95,771	5,473	5.4	47,970	21,749	3,566	2,643	20,012
Husbands	40,005	78.2	38,893	1,112	2.8	11,165	222	159	1,017	9,767
With employed wife	26,351	91.9	25,683	668	2.5	2,317	87	76	382	1,771
With unemployed wife	907	93.7	807	100	11.0	61	4	3	10	44
With wife not in labor force	12,747	59.2	12,403	345	2.7	8,787	131	80	625	7,952
Wives	29,635	57.9	28,667	968	3.3	21,535	16,613	257	456	4,208
With employed husband	26,491	68.1	25,683	807	3.0	12,403	10,794	199	175	1,235
With unemployed husband	768	69.0	668	100	13.0	345	286	10	15	34
With husband not in labor force	2,377	21.3	2,317	61	2.6	8,787	5,534	48	267	2,939
Relatives in married-couple families	14,246	70.7	12,621	1,626	11.4	5,917	834	2,028	375	2,679
16 to 19 years	5,671	64.2	4,805	866	15.3	3,159	201	1,456	21	1,480
20 to 24 years	4,928	82.5	4,458	471	9.6	1,043	161	487	35	361
25 years and over	3,647	68.0	3,358	289	7.9	1,715	472	85	319	838
Women who maintain families	6,932	62.1	6,383	550	7.9	4,231	2,890	130	246	965
Relatives in families maintained by women	5,866	63.0	4,965	901	15.4	3,445	746	840	380	1,479
16 to 19 years	1,548	53.9	1,136	413	26.6	1,325	143	629	22	531
20 to 24 years	1,661	77.2	1,411	250	15.0	489	139	136	26	188
25 years and over	2,656	62.0	2,418	238	9.0	1,631	464	75	332	760
Men who maintain families	2,507	79.8	2,399	108	4.3	633	46	22	91	473
Relatives in families maintained by men	2,052	66.3	1,843	209	10.2	1,044	398	130	78	438
16 to 19 years	405	63.4	342	63	15.6	233	37	89	4	102
20 to 24 years	568	84.5	502	66	11.7	104	27	32	4	42
25 years and over	1,079	60.4	999	80	7.4	707	334	9	70	294

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

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990
Total, 16 years and over	3,484	3,593	5.0	5.2	3,365	3,109	6.0	5.5
Married, spouse present	1,115	1,205	2.6	2.9	1,072	1,042	3.5	3.4
Widowed, divorced, or separated	410	441	5.9	5.8	693	602	6.4	5.3
Single (never married)	1,960	1,947	9.9	9.9	1,601	1,465	10.5	9.8
White, 16 years and over	2,545	2,638	4.2	4.4	2,348	2,252	4.9	4.7
Married, spouse present	889	959	2.4	2.6	876	886	3.3	3.3
Widowed, divorced, or separated	293	326	5.0	5.1	503	422	5.7	4.6
Single (never married)	1,363	1,353	8.3	8.3	969	944	8.0	7.9
Black, 16 years and over	819	787	11.9	11.5	909	747	13.2	11.0
Married, spouse present	175	179	5.5	5.6	153	121	6.3	5.1
Widowed, divorced, or separated	106	98	10.8	9.6	175	152	9.3	8.0
Single (never married)	539	510	20.0	19.5	581	474	22.5	18.7
Total, 25 years and over	1,934	2,144	3.4	3.8	1,856	1,627	4.1	4.0
Married, spouse present	1,003	1,103	2.5	2.7	897	813	3.2	3.2
Widowed, divorced, or separated	388	424	5.7	5.7	628	541	6.0	4.9
Single (never married)	543	618	6.0	6.6	331	272	5.3	5.6
White, 25 years and over	1,450	1,607	2.9	3.2	1,343	1,338	3.5	3.4
Married, spouse present	807	873	2.2	2.4	732	781	2.9	3.1
Widowed, divorced, or separated	270	309	4.8	5.0	454	374	5.4	4.2
Single (never married)	372	425	5.1	5.6	156	183	3.3	3.7
Black, 25 years and over	409	424	7.7	7.8	451	418	8.4	7.6
Married, spouse present	154	166	5.0	5.4	126	101	5.6	4.5
Widowed, divorced, or separated	106	98	11.0	9.8	162	141	8.9	7.7
Single (never married)	149	160	11.7	11.7	163	176	12.3	12.1

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990
Total, 16 years and over	6,850	6,702	5.5	5.3	5.0	5.2	6.0	5.5
Managerial and professional specialty	620	701	2.0	2.2	1.5	2.0	2.6	2.5
Executive, administrative, and managerial	313	355	2.1	2.3	1.5	2.2	2.9	2.5
Professional specialty	307	346	2.0	2.2	1.5	1.8	2.5	2.6
Technical, sales, and administrative support	1,443	1,557	3.8	4.1	2.6	3.7	4.4	4.2
Technicians and related support	95	113	2.5	2.8	1.7	2.8	3.3	2.7
Sales occupations	610	679	4.1	4.6	2.3	3.3	5.9	5.8
Administrative support, including clerical	737	765	3.8	3.9	3.6	5.0	3.9	3.7
Service occupations	1,162	1,065	6.9	6.2	6.8	6.1	7.0	6.3
Private household	58	40	5.8	4.6	(¹)	(¹)	5.9	4.7
Protective service	59	66	2.9	3.2	2.4	2.6	5.9	6.3
Service, except private household and protective	1,046	960	7.6	6.8	8.2	7.4	7.1	6.4
Precision production, craft, and repair	735	701	4.9	4.8	4.8	4.8	5.8	5.4
Mechanics and repairers	162	191	3.4	4.2	3.4	4.2	5.4	2.2
Construction trades	391	367	6.7	6.4	6.7	6.3	6.3	6.8
Other precision production, craft, and repair	183	143	4.2	3.4	3.7	2.7	5.9	5.8
Operators, fabricators, and laborers	1,505	1,419	7.6	7.3	7.1	7.1	9.2	7.7
Machine operators, assemblers, and inspectors	647	569	7.3	6.3	5.9	5.4	9.2	7.6
Transportation and material moving occupations	266	263	5.2	5.2	5.1	5.3	6.5	4.7
Handlers, equipment cleaners, helpers, and laborers	592	587	10.4	10.6	10.3	10.9	10.4	9.3
Construction laborers	113	139	11.3	13.5	11.3	13.7	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	478	448	10.1	9.9	10.1	10.0	10.3	9.4
Farming, forestry, and fishing	209	205	5.1	4.7	4.8	4.6	6.7	5.1
No previous work experience	1,143	1,004	-	-	-	-	-	-
16 to 19 years	827	742	-	-	-	-	-	-
20 to 24 years	197	150	-	-	-	-	-	-
25 years and over	120	112	-	-	-	-	-	-

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	
	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990
Total, 16 years and over	6,850	6,702	5.5	5.3	5.0	5.2	6.0	5.5
Nonagricultural private wage and salary workers	4,863	4,830	5.2	5.1	4.8	5.1	5.6	5.1
Mining	30	28	4.0	3.6	3.7	3.6	5.4	4.0
Construction	556	526	8.2	8.0	8.4	8.3	6.7	4.6
Manufacturing	1,076	1,011	4.8	4.6	3.8	4.1	6.8	5.6
Durable goods	578	597	4.4	4.6	3.6	4.3	6.5	5.4
Lumber and wood products	40	42	5.1	5.4	5.6	4.4	2.5	11.6
Furniture and fixtures	40	33	5.9	4.8	5.1	4.4	8.0	5.7
Stone, clay, and glass products	24	26	3.4	4.0	2.4	4.1	7.7	3.8
Primary metal industries	20	37	2.3	3.9	2.2	3.5	2.5	6.9
Fabricated metal products	83	77	6.3	6.0	4.6	6.1	11.5	5.5
Machinery, except electrical	87	91	3.3	3.7	2.6	3.2	5.2	5.1
Electrical machinery, equipment, and supplies	114	106	5.2	4.9	3.9	4.3	6.8	5.9
Transportation equipment	127	131	4.5	4.9	3.8	5.2	7.1	3.8
Automobiles	76	75	6.0	6.0	5.0	6.3	10.0	4.9
Other transportation equipment	51	57	3.3	3.9	2.9	4.2	4.9	2.8
Professional and photographic equipment	17	18	2.7	2.5	2.2	1.3	3.3	4.0
Other durable goods industries	26	36	4.7	6.4	3.1	6.3	6.1	6.2
Nondurable goods	498	414	5.3	4.6	4.1	3.7	7.1	5.8
Food and kindred products	137	116	6.9	5.9	5.5	5.6	9.8	6.3
Textile mill products	36	35	4.9	4.8	3.5	3.0	6.6	6.9
Apparel and other textile products	109	80	8.7	6.8	10.5	5.6	8.1	7.2
Paper and allied products	25	25	3.0	3.2	1.9	2.7	6.0	4.6
Printing and publishing	85	64	4.4	3.5	3.2	2.7	5.9	4.5
Chemicals and allied products	33	42	2.3	2.9	1.4	2.7	4.1	3.4
Rubber and miscellaneous plastics products	46	42	5.9	5.5	6.1	4.5	5.7	7.5
Other nondurable goods industries	29	11	7.0	2.9	4.3	1.7	12.8	6.0
Transportation and public utilities	287	210	4.4	3.3	4.0	3.3	5.1	3.1
Transportation	211	170	5.4	4.6	5.2	4.6	6.1	4.8
Communications and other public utilities	75	40	2.8	1.4	2.1	1.4	4.1	1.6
Wholesale and retail trade	1,471	1,500	6.1	6.4	5.1	6.0	7.2	6.7
Wholesale trade	167	216	3.7	4.8	3.3	4.2	4.7	6.4
Retail trade	1,304	1,284	6.7	6.7	5.7	6.7	7.6	6.7
Finance, insurance, and real estate	201	202	2.7	2.7	2.7	2.2	2.7	3.0
Service industries	1,241	1,353	4.7	4.9	4.8	5.5	4.7	4.6
Professional services	436	511	3.1	3.4	2.5	3.4	3.3	3.4
Other service industries	805	842	6.6	6.9	6.4	7.0	6.9	6.7
Agricultural wage and salary workers	143	147	7.3	7.0	6.4	6.8	10.7	7.3
Government, self-employed, and unpaid family workers	701	720	2.5	2.5	2.4	2.4	2.6	2.7
No previous work experience	1,143	1,004	-	-	-	-	-	-

A-14. Unemployed persons by reason for unemployment, sex, and race

(Numbers in thousands)

Reason for unemployment	Total unemployed		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990
NUMBER OF UNEMPLOYED												
Total unemployed	6,850	6,702	2,636	2,829	2,526	2,393	1,687	1,480	4,893	4,890	1,728	1,534
Job losers	2,563	2,855	1,523	1,717	900	974	139	165	1,920	2,151	574	580
On layoff	679	766	405	444	253	298	21	23	577	593	85	140
Other job losers	1,884	2,089	1,118	1,273	647	675	118	142	1,343	1,559	489	440
Job leavers	947	923	360	438	420	329	167	156	714	701	188	186
Reentrants	2,197	1,977	626	592	1,016	938	554	447	1,540	1,416	586	488
New entrants	1,143	946	127	82	190	152	827	713	719	622	380	280
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	37.4	42.6	57.8	60.7	35.6	40.7	8.2	11.1	39.2	44.0	33.2	37.8
On layoff	9.9	11.4	15.4	15.7	10.0	12.5	1.2	1.6	11.8	12.1	4.9	9.1
Other job losers	27.5	31.2	42.4	45.0	25.6	28.2	7.0	9.6	27.4	31.9	28.3	28.7
Job leavers	13.8	13.8	13.6	15.5	16.6	13.8	9.9	10.5	14.6	14.3	10.9	12.1
Reentrants	32.1	29.5	23.8	20.9	40.2	39.2	32.8	30.2	31.5	28.9	33.9	31.8
New entrants	16.7	14.1	4.8	2.9	7.5	6.3	49.0	48.2	14.7	12.7	22.0	18.2
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	2.0	2.3	2.3	2.6	1.7	1.8	1.5	1.9	1.7	2.0	4.2	4.2
Job leavers .....	.8	.7	.6	.7	.8	.6	1.8	1.8	.7	.6	1.4	1.4
Reentrants	1.7	1.6	1.0	.9	2.0	1.8	5.9	5.2	1.4	1.3	4.3	3.6
New entrants .....	.9	.7	.2	.1	.4	.3	8.9	8.3	.7	.6	2.8	2.0

**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	June 1990						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over	6,702	100.0	54.2	25.8	20.0	10.6	9.4
Job losers	2,855	100.0	40.9	30.8	28.3	15.5	12.8
On layoff	766	100.0	55.6	27.0	17.4	11.8	5.7
Other job losers	2,089	100.0	35.5	32.2	32.3	16.9	15.5
Job leavers	923	100.0	51.1	29.2	19.7	10.7	8.9
Reentrants	1,977	100.0	63.3	22.4	14.4	7.0	7.4
New entrants	946	100.0	78.3	14.8	6.9	3.4	3.5
Men, 20 years and over	2,829	100.0	43.4	28.5	28.1	14.3	13.8
Job losers	1,717	100.0	39.5	29.8	30.7	15.7	15.0
On layoff	444	100.0	50.7	29.7	19.6	13.0	6.6
Other job losers	1,273	100.0	35.5	29.9	34.6	16.7	17.9
Job leavers	438	100.0	47.2	26.5	26.3	14.0	12.3
Reentrants	592	100.0	48.4	28.4	23.2	10.7	12.5
New entrants	82	100.0	68.5	13.7	17.8	10.2	7.6
Women, 20 years and over	2,393	100.0	51.5	28.6	19.9	11.4	8.5
Job losers	974	100.0	38.4	34.0	27.6	16.6	11.0
On layoff	298	100.0	60.0	23.9	16.1	10.9	5.1
Other job losers	675	100.0	28.8	38.5	32.7	19.1	13.6
Job leavers	329	100.0	49.2	32.2	18.6	10.6	8.0
Reentrants	938	100.0	64.3	21.8	13.9	7.3	6.6
New entrants	152	100.0	61.8	27.8	10.3	4.8	5.5
Both sexes, 16 to 19 years	1,480	100.0	79.1	16.2	4.7	2.5	2.2
Job losers	165	100.0	70.8	21.4	7.8	6.4	1.4
On layoff	23	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Other job losers	142	100.0	67.4	22.6	10.1	7.6	2.5
Job leavers	156	100.0	66.3	30.3	3.4	1.8	1.6
Reentrants	447	100.0	80.7	15.7	3.6	1.4	2.2
New entrants	713	100.0	82.9	12.2	4.9	2.4	2.6

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

A-16. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990
Total, 16 years and over	6,850	6,702	100.0	100.0	5,578	5,478	100.0	100.0
Less than 5 weeks	3,905	3,631	57.0	54.2	2,924	2,729	52.4	49.8
5 to 14 weeks	1,701	1,731	24.8	25.8	1,479	1,518	26.5	27.7
5 to 10 weeks	1,281	1,265	18.7	18.9	1,093	1,109	19.6	20.3
11 to 14 weeks	420	465	6.1	6.9	386	409	6.9	7.5
15 weeks and over	1,243	1,340	18.2	20.0	1,176	1,231	21.1	22.5
15 to 26 weeks	644	712	9.4	10.6	610	657	10.9	12.0
27 weeks and over	599	628	8.7	9.4	566	575	10.1	10.5
27 to 51 weeks	232	262	3.4	3.9	223	238	4.0	4.3
52 weeks and over	367	366	5.4	5.5	343	337	6.1	6.2
Average (mean) duration, in weeks	10.5	11.2	-	-	11.7	12.3	-	-
Median duration, in weeks	4.4	4.2	-	-	4.8	4.5	-	-

A-17. Unemployed persons by sex, age, race, marital status, and duration of unemployment

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								June 1989	June 1990	June 1989	June 1990
	June 1990										
Total, 16 years and over	6,702	3,631	1,731	712	628	11.2	4.2	57.0	54.2	18.2	20.0
16 to 19 years	1,480	1,171	240	37	33	4.8	2.8	79.2	79.1	5.1	4.7
20 to 24 years	1,251	746	325	113	67	8.5	3.8	64.1	59.6	12.8	14.4
25 to 34 years	1,753	839	515	205	195	12.5	5.1	50.5	47.8	21.0	22.8
35 to 44 years	1,182	495	346	181	160	14.7	6.9	41.4	41.9	27.7	28.8
45 to 54 years	642	250	176	106	110	17.3	7.5	37.6	38.9	31.2	33.6
55 to 64 years	324	102	107	62	53	17.5	9.3	36.2	31.4	37.0	35.5
65 years and over	70	29	22	8	11	(¹)	(¹)	36.3	(¹)	24.2	(¹)
Men, 16 years and over	3,593	1,842	925	413	412	12.9	4.4	52.9	51.3	22.2	23.0
16 to 19 years	764	615	118	10	21	4.7	2.8	76.3	80.6	5.7	4.0
20 to 24 years	685	405	165	69	46	9.6	3.8	63.4	59.1	14.7	16.8
25 to 34 years	925	417	271	107	130	14.3	5.9	46.0	45.1	24.7	25.6
35 to 44 years	609	225	187	106	90	16.7	8.2	35.4	37.0	35.5	32.3
45 to 54 years	361	112	101	70	78	21.1	10.0	27.0	31.1	45.2	41.1
55 to 64 years	216	60	70	46	40	19.5	11.5	30.8	27.9	41.9	39.9
65 years and over	33	8	14	4	7	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,109	1,789	805	299	216	9.3	3.9	61.2	57.5	13.9	16.6
16 to 19 years	716	556	122	27	12	4.9	2.9	82.2	77.6	4.5	5.4
20 to 24 years	566	341	160	44	21	7.2	3.7	64.8	60.3	10.8	11.4
25 to 34 years	829	422	244	99	64	10.5	4.4	55.0	50.9	17.3	19.7
35 to 44 years	573	270	159	75	70	12.6	5.5	47.7	47.1	19.6	25.1
45 to 54 years	281	138	75	36	32	12.3	4.7	48.3	49.1	17.2	24.1
55 to 64 years	107	41	37	15	13	13.5	5.7	42.4	38.3	31.4	26.7
65 years and over	37	21	8	4	4	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,890	2,653	1,252	542	443	11.0	4.1	57.0	54.3	17.9	20.1
Men	2,638	1,342	672	326	299	12.8	4.4	52.2	50.9	22.5	23.7
Women	2,252	1,312	580	216	144	8.9	3.9	62.2	58.2	12.9	16.0
Black, 16 years and over	1,534	833	400	147	155	11.7	4.1	57.6	54.3	19.0	19.7
Men	787	413	207	70	96	13.2	4.3	56.0	52.5	21.5	21.2
Women	747	420	192	76	59	10.1	4.0	59.0	56.2	16.8	18.1
Men, 16 years and over:											
Married, spouse present	1,205	437	358	218	191	17.6	8.7	43.9	36.3	31.2	34.0
Widowed, divorced, or separated	441	190	126	57	68	15.7	6.5	32.9	43.1	34.5	28.3
Single (never married)	1,947	1,215	441	138	153	9.3	3.6	62.2	62.4	14.6	14.9
Women, 16 years and over:											
Married, spouse present	1,042	548	283	119	93	10.9	4.3	55.9	52.6	18.2	20.3
Widowed, divorced, or separated	602	310	156	77	59	11.7	4.4	46.9	51.5	17.5	22.4
Single (never married)	1,465	931	367	103	64	7.1	3.5	71.0	63.5	9.5	11.4

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-18. Unemployed persons by occupation, industry, and duration of unemployment

Occupation and industry	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
	June 1990							June 1989	June 1990	June 1989	June 1990
OCCUPATION											
Managerial and professional specialty	701	320	209	102	70	11.8	5.6	50.4	45.6	17.9	24.5
Technical, sales, and administrative support	1,557	816	415	188	139	10.9	4.3	56.7	52.4	17.4	21.0
Service occupations	1,065	611	276	101	77	9.6	3.9	60.4	57.4	17.3	16.7
Precision production, craft, and repair	701	325	198	88	90	13.5	5.6	43.4	46.4	27.4	25.4
Operators, fabricators, and laborers	1,419	650	411	178	179	14.0	5.6	49.8	45.8	23.1	25.2
Farming, forestry, and fishing	205	114	49	21	21	12.5	4.1	62.7	55.6	16.6	20.5
INDUSTRY¹											
Agriculture	147	79	43	9	14	11.3	4.2	66.5	53.7	14.1	16.3
Construction	541	269	135	76	60	12.5	4.6	42.8	49.7	29.2	25.1
Manufacturing	1,013	366	370	132	145	15.7	7.7	43.2	36.1	24.9	27.3
Durable goods	599	211	219	78	91	16.9	8.2	40.8	35.2	27.5	28.2
Nondurable goods	414	155	151	55	54	13.9	6.9	46.0	37.4	21.8	26.1
Transportation and public utilities	257	107	81	33	37	14.9	7.2	44.2	41.6	29.0	27.2
Wholesale and retail trade	1,513	845	366	180	122	10.3	4.0	61.6	55.8	16.8	20.0
Finance and service industries	1,848	986	489	210	163	10.7	4.3	57.2	53.4	15.9	20.2
Public administration	144	80	36	10	17	11.2	4.0	49.8	55.6	19.5	19.4
No previous work experience	1,004	773	157	33	41	6.7	2.9	75.0	77.0	8.2	7.4

¹ Includes wage and salary workers only.

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

Sex, age, and race	June 1990								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	6,702	5,774	21.9	8.7	72.2	38.4	20.0	4.6	1.66
16 to 19 years	1,480	1,397	14.1	4.5	76.7	30.6	17.4	2.8	1.46
20 to 24 years	1,251	1,106	23.1	10.3	72.3	38.8	19.9	5.0	1.69
25 to 34 years	1,753	1,481	25.9	10.3	71.6	41.4	21.1	4.1	1.74
35 to 44 years	1,182	996	25.1	9.7	71.3	39.2	19.7	5.8	1.71
45 to 54 years	642	504	23.2	11.2	70.8	43.0	21.2	5.6	1.75
55 to 64 years	324	238	25.3	5.8	61.3	50.3	26.1	7.6	1.76
65 years and over	70	51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Men, 16 years and over	3,593	3,051	23.5	8.4	72.9	36.9	23.4	5.6	1.71
16 to 19 years	764	719	15.6	4.1	78.1	27.0	20.7	2.7	1.48
20 to 24 years	685	582	21.3	10.0	74.8	36.4	23.9	5.3	1.72
25 to 34 years	925	757	28.3	11.7	72.0	41.6	26.0	5.0	1.85
35 to 44 years	609	512	28.4	7.3	72.1	36.1	21.0	8.0	1.73
45 to 54 years	361	292	24.8	10.8	68.2	43.8	24.4	6.9	1.79
55 to 64 years	216	160	25.9	5.6	62.3	48.5	28.3	10.1	1.81
65 years and over	33	28	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,109	2,722	20.3	9.0	71.5	40.2	16.1	3.4	1.60
16 to 19 years	716	678	12.4	4.9	75.2	34.5	13.8	2.9	1.44
20 to 24 years	566	524	25.0	10.7	69.5	41.3	15.6	4.6	1.67
25 to 34 years	829	724	23.3	8.9	71.2	41.1	16.0	3.1	1.64
35 to 44 years	573	484	21.6	12.3	70.4	42.5	18.4	3.4	1.69
45 to 54 years	281	211	20.9	11.8	74.3	42.0	16.8	3.8	1.70
55 to 64 years	107	78	24.1	6.1	59.4	53.9	21.5	2.4	1.67
65 years and over	37	23	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,890	4,152	20.4	8.2	72.9	39.9	20.3	4.6	1.66
Men	2,638	2,210	22.6	7.7	73.2	38.7	23.8	5.7	1.72
Women	2,252	1,942	17.9	8.8	72.6	41.3	16.4	3.2	1.60
Black, 16 years and over	1,534	1,383	27.2	9.8	72.1	32.5	18.7	3.7	1.64
Men	787	687	27.3	10.0	75.6	28.5	23.5	3.9	1.69
Women	747	696	27.1	9.6	68.5	36.5	13.9	3.5	1.59

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

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

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

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

Sex and reason	June 1990								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	6,702	5,774	21.9	8.7	72.2	38.4	20.0	4.6	1.66
Job losers ¹	2,855	2,062	27.9	10.3	72.7	42.8	23.9	4.2	1.82
Job leavers	923	900	23.2	11.2	70.0	43.8	18.7	4.0	1.71
Reentrants	1,977	1,902	18.6	6.9	70.7	37.1	16.8	5.9	1.56
New entrants	946	910	14.2	6.1	76.8	25.9	18.9	3.2	1.45
Men, 16 years and over	3,593	3,051	23.5	8.4	72.9	36.9	23.4	5.6	1.71
Job losers ¹	1,822	1,347	27.8	9.2	73.1	39.5	25.7	5.2	1.80
Job leavers	514	500	25.2	13.4	70.4	41.7	22.4	4.0	1.77
Reentrants	836	806	18.5	5.4	72.0	34.1	20.9	8.7	1.60
New entrants	421	399	16.8	5.3	77.3	27.5	22.4	3.0	1.52
Women, 16 years and over	3,109	2,722	20.3	9.0	71.5	40.2	16.1	3.4	1.60
Job losers ¹	1,033	715	28.1	12.3	72.0	48.9	20.6	2.3	1.84
Job leavers	409	400	20.7	8.5	69.4	46.6	14.1	3.9	1.63
Reentrants	1,140	1,096	18.8	8.0	69.7	39.3	13.9	3.9	1.54
New entrants	526	511	12.2	6.7	76.5	24.7	16.1	3.4	1.40

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	
	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990
All industries	118,719	119,605	65,729	65,709	52,990	53,896
16 to 19 years	7,639	7,134	4,040	3,730	3,599	3,405
16 to 17 years	2,925	2,667	1,570	1,431	1,355	1,237
18 to 19 years	4,714	4,467	2,471	2,299	2,243	2,168
20 to 24 years	13,612	13,213	7,220	7,044	6,392	6,169
25 to 54 years	82,581	84,323	45,819	46,371	36,762	37,952
25 to 34 years	34,012	34,041	19,115	18,929	14,898	15,113
35 to 44 years	29,310	30,426	16,054	16,617	13,256	13,809
45 to 54 years	19,260	19,856	10,651	10,825	8,608	9,030
55 to 64 years	11,509	11,404	6,635	6,544	4,874	4,861
55 to 59 years	6,855	6,728	3,921	3,820	2,934	2,908
60 to 64 years	4,654	4,677	2,715	2,724	1,940	1,953
65 years and over	3,378	3,530	2,014	2,020	1,364	1,510
Agriculture	3,494	3,714	2,756	2,878	738	836
16 to 19 years	371	386	316	316	54	70
16 to 17 years	201	189	178	156	23	34
18 to 19 years	170	196	138	160	32	37
20 to 24 years	417	385	349	326	68	59
25 to 54 years	1,943	2,168	1,472	1,625	473	543
25 to 34 years	786	946	631	736	156	210
35 to 44 years	682	734	474	534	208	200
45 to 54 years	476	488	367	355	109	132
55 to 64 years	445	450	351	330	95	120
55 to 59 years	225	228	175	161	49	68
60 to 64 years	221	222	176	169	45	53
65 years and over	317	326	268	282	49	43
Nonagricultural industries	115,226	115,891	62,973	62,831	52,252	53,060
16 to 19 years	7,268	6,749	3,724	3,414	3,544	3,334
16 to 17 years	2,724	2,478	1,392	1,275	1,333	1,203
18 to 19 years	4,544	4,271	2,332	2,140	2,212	2,131
20 to 24 years	13,195	12,828	6,872	6,718	6,324	6,110
25 to 54 years	80,638	82,156	44,348	44,747	36,290	37,409
25 to 34 years	33,226	33,095	18,484	18,193	14,742	14,902
35 to 44 years	28,628	29,692	15,580	16,084	13,048	13,608
45 to 54 years	18,784	19,368	10,284	10,470	8,500	8,898
55 to 64 years	11,064	10,954	6,284	6,214	4,779	4,740
55 to 59 years	6,630	6,499	3,745	3,659	2,885	2,840
60 to 64 years	4,434	4,455	2,539	2,555	1,895	1,900
65 years and over	3,061	3,204	1,746	1,738	1,315	1,467

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990
Total	118,719	119,605	65,729	65,709	61,688	61,979	52,990	53,896	49,392	50,491
Managerial and professional specialty	30,070	30,546	16,609	16,755	16,494	16,620	13,461	13,790	13,312	13,670
Executive, administrative, and managerial	14,902	14,943	9,011	8,989	8,965	8,946	5,891	5,955	5,852	5,899
Officials and administrators, public administration	608	602	358	366	358	366	249	235	249	235
Other executive, administrative, and managerial	10,324	10,277	6,617	6,517	6,577	6,480	3,708	3,760	3,679	3,716
Management-related occupations	3,970	4,065	2,036	2,105	2,030	2,100	1,933	1,960	1,924	1,947
Professional specialty	15,168	15,602	7,598	7,766	7,529	7,674	7,570	7,836	7,460	7,772
Engineers	1,929	1,919	1,755	1,760	1,752	1,751	174	160	174	158
Mathematical and computer scientists	814	818	531	526	530	526	284	292	284	292
Natural scientists	420	397	309	306	309	306	111	91	110	91
Health diagnosing occupations	859	866	738	728	737	728	122	138	122	136
Health assessment and treating occupations	2,304	2,302	362	325	362	326	1,942	1,977	1,936	1,977
Teachers, college and university	625	682	369	422	367	419	256	260	251	260
Teachers, except college and university	3,444	3,703	890	988	871	961	2,553	2,714	2,505	2,681
Lawyers and judges	785	760	605	594	603	594	180	166	180	163
Other professional specialty occupations	3,987	4,156	2,040	2,117	1,997	2,064	1,947	2,038	1,899	2,013
Technical, sales, and administrative support	36,661	36,811	12,959	13,016	12,155	12,329	23,702	23,796	21,862	22,043
Technicians and related support	3,774	3,966	1,986	2,008	1,949	1,976	1,787	1,958	1,763	1,929
Health technologists and technicians	1,266	1,320	227	224	224	219	1,039	1,096	1,032	1,081
Engineering and science technicians	1,184	1,279	935	998	911	982	249	281	244	272
Technicians, except health, engineering, and science	1,324	1,366	824	785	813	775	499	581	487	576
Sales occupations	14,288	14,229	7,180	7,213	6,675	6,782	7,108	7,017	5,984	5,942
Supervisors and proprietors	3,813	3,739	2,460	2,448	2,434	2,421	1,353	1,292	1,322	1,269
Sales representatives, finance and business services	2,428	2,439	1,357	1,414	1,330	1,403	1,070	1,025	1,041	992
Sales representatives, commodities, except retail	1,566	1,638	1,243	1,281	1,222	1,275	323	357	313	346
Sales workers, retail and personal services	6,406	6,333	2,101	2,038	1,674	1,654	4,305	4,294	3,254	3,292
Sales-related occupations	76	81	20	31	15	29	57	49	55	43
Administrative support, including clerical	18,599	18,616	3,793	3,795	3,531	3,571	14,807	14,821	14,115	14,172
Supervisors	708	774	292	351	292	349	416	423	416	422
Computer equipment operators	913	829	339	270	320	264	574	559	544	549
Secretaries, stenographers, and typists	4,762	4,654	75	87	73	78	4,686	4,567	4,503	4,370
Financial records processing	2,464	2,364	236	208	228	201	2,228	2,157	2,179	2,125
Mail and message distributing	913	937	572	603	539	572	341	334	332	321
Other administrative support, including clerical	8,839	9,058	2,278	2,277	2,079	2,107	6,561	6,781	6,141	6,385
Service occupations	15,688	16,062	6,375	6,391	5,318	5,388	9,312	9,672	8,064	8,461
Private household	942	824	54	32	51	21	898	792	747	650
Protective service	1,944	1,988	1,638	1,691	1,563	1,614	307	297	256	255
Service, except private household and protective	12,801	13,251	4,683	4,668	3,704	3,753	8,118	8,583	7,062	7,556
Food service	5,481	5,576	2,185	2,220	1,472	1,552	3,296	3,356	2,545	2,661
Health service	1,999	2,119	234	223	217	208	1,765	1,896	1,668	1,812
Cleaning and building service	3,057	3,086	1,838	1,748	1,664	1,585	1,219	1,339	1,142	1,262
Personal service	2,264	2,469	425	477	352	408	1,838	1,992	1,707	1,822
Precision production, craft, and repair	14,192	13,877	12,992	12,666	12,587	12,304	1,200	1,211	1,160	1,175
Mechanics and repairers	4,574	4,390	4,436	4,215	4,307	4,119	138	175	138	166
Construction trades	5,419	5,412	5,308	5,304	5,070	5,111	111	109	101	104
Other precision production, craft, and repair	4,200	4,074	3,249	3,147	3,211	3,074	951	927	921	905
Operators, fabricators, and laborers	18,218	18,121	13,569	13,378	12,361	12,293	4,649	4,743	4,408	4,523
Machine operators, assemblers, and inspectors	8,229	8,401	4,829	4,959	4,633	4,758	3,401	3,442	3,287	3,328
Manufacturing industries	6,768	6,875	3,886	4,052	3,754	3,892	2,882	2,823	2,790	2,738
Durable goods	3,722	3,812	2,516	2,629	2,434	2,546	1,206	1,183	1,179	1,149
Nondurable goods	3,045	3,063	1,370	1,422	1,319	1,346	1,676	1,640	1,611	1,589
Nonmanufacturing industries	1,462	1,527	943	908	879	866	519	619	497	589
Transportation and material moving occupations	4,861	4,763	4,454	4,343	4,330	4,202	407	420	398	414
Motor vehicle operators	3,500	3,508	3,138	3,133	3,034	3,020	363	375	356	370
Other transportation and material moving occupations	1,361	1,256	1,316	1,211	1,296	1,182	44	45	42	44
Handlers, equipment cleaners, helpers, and laborers	5,128	4,956	4,287	4,076	3,398	3,332	841	881	723	781
Construction laborers	893	891	849	870	718	763	43	21	36	21
Other handlers, equipment cleaners, helpers, and laborers	4,236	4,065	3,437	3,206	2,680	2,568	798	860	687	761
Farming, forestry, and fishing	3,890	4,188	3,225	3,503	2,774	3,045	665	685	586	619
Farm operators and managers	1,289	1,390	1,068	1,171	1,056	1,157	222	219	218	216
Other farming, forestry, and fishing occupations	2,600	2,798	2,158	2,333	1,718	1,889	443	466	368	403

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	June 1989	June 1990	June 1989	June 1990	June 1989	June 1990
TOTAL						
Total, 16 years and over (thousands)	118,719	119,605	65,729	65,709	52,990	53,896
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	25.3	25.5	25.3	25.5	25.4	25.6
Executive, administrative, and managerial	12.6	12.5	13.7	13.7	11.1	11.0
Professional specialty	12.8	13.0	11.6	11.8	14.3	14.5
Technical, sales, and administrative support	30.9	30.8	19.7	19.8	44.7	44.2
Technicians and related support	3.2	3.3	3.0	3.1	3.4	3.6
Sales occupations	12.0	11.9	10.9	11.0	13.4	13.0
Administrative support, including clerical	15.7	15.6	5.8	5.8	27.9	27.5
Service occupations	13.2	13.4	9.7	9.7	17.6	17.9
Private household .....	.8	.7	.1	--	1.7	1.5
Protective service	1.6	1.7	2.5	2.6	.6	.6
Service, except private household and protective	10.8	11.1	7.1	7.1	15.3	15.9
Precision production, craft, and repair	12.0	11.6	19.8	19.3	2.3	2.2
Operators, fabricators, and laborers	15.3	15.2	20.6	20.4	8.8	8.8
Machine operators, assemblers, and inspectors	6.9	7.0	7.3	7.5	6.4	6.4
Transportation and material moving occupations	4.1	4.0	6.8	6.6	.8	.8
Handlers, equipment cleaners, helpers, and laborers	4.3	4.1	6.5	6.2	1.6	1.6
Farming, forestry, and fishing	3.3	3.5	4.9	5.3	1.3	1.3
White						
Total, 16 years and over (thousands)	102,869	103,638	57,581	57,561	45,288	46,077
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	26.4	26.6	26.4	26.7	26.3	26.5
Executive, administrative, and managerial	13.2	13.2	14.5	14.5	11.6	11.6
Professional specialty	13.1	13.4	11.9	12.2	14.7	14.9
Technical, sales, and administrative support	31.2	31.1	19.8	19.9	45.6	45.0
Technicians and related support	3.2	3.3	3.1	3.1	3.3	3.6
Sales occupations	12.6	12.4	11.4	11.5	14.0	13.5
Administrative support, including clerical	15.5	15.3	5.3	5.3	28.4	27.9
Service occupations	12.1	12.3	8.7	8.7	16.4	16.8
Private household .....	.7	.6	.1	--	1.4	1.2
Protective service	1.6	1.5	2.3	2.4	.6	.5
Service, except private household and protective	9.9	10.2	6.3	6.3	14.4	15.0
Precision production, craft, and repair	12.3	12.0	20.3	19.9	2.1	2.1
Operators, fabricators, and laborers	14.5	14.4	19.6	19.3	8.1	8.2
Machine operators, assemblers, and inspectors	6.5	6.6	7.1	7.2	5.8	5.9
Transportation and material moving occupations	3.9	3.8	6.4	6.2	.8	.8
Handlers, equipment cleaners, helpers, and laborers	4.1	4.0	6.1	5.8	1.5	1.6
Farming, forestry, and fishing	3.5	3.7	5.1	5.6	1.4	1.4
Black						
Total, 16 years and over (thousands)	12,023	12,118	6,059	6,050	5,964	6,068
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	15.6	15.5	12.8	12.3	18.4	18.6
Executive, administrative, and managerial	6.7	6.6	6.4	5.9	7.1	7.3
Professional specialty	8.9	8.8	6.4	6.4	11.4	11.3
Technical, sales, and administrative support	28.3	28.5	17.2	17.8	39.6	39.1
Technicians and related support	2.7	2.9	1.9	2.3	3.6	3.5
Sales occupations	8.0	7.8	6.4	5.8	9.6	9.8
Administrative support, including clerical	17.6	17.7	9.0	9.7	26.3	25.8
Service occupations	22.2	22.6	18.5	18.5	26.0	26.8
Private household	1.8	1.6	.1	.1	3.6	3.2
Protective service	2.6	2.8	4.4	4.7	.8	1.0
Service, except private household and protective	17.8	18.1	14.0	13.6	21.7	22.6
Precision production, craft, and repair	9.6	9.3	16.5	15.8	2.6	2.8
Operators, fabricators, and laborers	22.5	22.2	31.8	32.0	13.0	12.3
Machine operators, assemblers, and inspectors	9.8	10.1	9.8	10.7	9.9	9.5
Transportation and material moving occupations	6.0	6.1	10.9	11.2	1.0	1.0
Handlers, equipment cleaners, helpers, and laborers	6.7	6.0	11.1	10.1	2.1	1.8
Farming, forestry, and fishing	1.8	2.0	3.3	3.7	.3	.4

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

(In thousands)

Age and sex	June 1990								
	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	106,862	1,143	17,399	88,320	8,794	235	1,963	1,605	146
16 to 19 years	6,646	219	420	6,007	87	15	301	48	37
16 to 17 years	2,447	130	161	2,155	25	6	141	26	23
18 to 19 years	4,199	89	259	3,851	63	9	160	23	14
20 to 24 years	12,511	139	1,130	11,242	295	22	307	72	6
25 to 34 years	31,164	178	4,204	26,782	1,894	38	607	318	21
35 to 44 years	26,872	166	5,413	21,293	2,757	63	361	346	27
45 to 54 years	17,393	143	3,768	13,482	1,923	52	194	272	22
55 to 64 years	9,704	162	2,016	7,526	1,227	24	140	288	22
55 to 59 years	5,842	86	1,237	4,519	643	14	72	143	13
60 to 64 years	3,861	77	778	3,006	584	10	68	145	9
65 years and over	2,573	137	449	1,988	609	21	54	261	11
Men, 16 years and over	57,161	207	8,202	48,753	5,618	52	1,493	1,324	61
16 to 19 years	3,354	74	220	3,060	52	8	236	46	34
16 to 17 years	1,257	42	82	1,133	14	4	109	24	23
18 to 19 years	2,097	32	138	1,927	38	4	127	21	11
20 to 24 years	6,525	28	535	5,962	177	15	257	64	5
25 to 34 years	17,035	33	2,023	14,979	1,150	7	456	273	6
35 to 44 years	14,343	24	2,428	11,891	1,731	10	255	278	1
45 to 54 years	9,236	16	1,770	7,449	1,232	2	141	211	3
55 to 64 years	5,347	13	1,025	4,309	866	1	105	218	7
55 to 59 years	3,194	6	599	2,588	464	1	54	107	-
60 to 64 years	2,153	7	426	1,721	402	-	51	111	7
65 years and over	1,319	17	199	1,103	410	9	42	235	5
Women, 16 years and over	49,701	937	9,198	39,567	3,175	184	471	280	85
16 to 19 years	3,291	145	200	2,947	36	7	64	3	3
16 to 17 years	1,190	88	79	1,022	11	2	32	1	-
18 to 19 years	2,102	57	121	1,924	25	5	32	2	3
20 to 24 years	5,985	110	595	5,280	118	7	49	8	2
25 to 34 years	14,128	145	2,180	11,803	743	31	151	45	15
35 to 44 years	12,529	142	2,984	9,403	1,026	53	106	68	26
45 to 54 years	8,157	127	1,998	6,032	691	50	53	61	19
55 to 64 years	4,357	149	991	3,217	360	23	35	70	15
55 to 59 years	2,649	80	638	1,931	179	13	18	36	13
60 to 64 years	1,708	69	353	1,286	182	10	17	34	2
65 years and over	1,254	120	250	884	200	13	12	26	5

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-25. Employed civilians by industry and occupation

(In thousands)

Industry	June 1990												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service ¹		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture	3,714	84	92	32	27	130	-	12	34	7	46	7	3,243
Mining	760	137	66	39	11	73	-	14	238	21	117	44	-
Construction	8,157	1,097	138	63	84	462	-	39	4,622	101	541	986	24
Manufacturing	21,529	2,438	1,773	826	841	2,350	-	378	4,017	6,875	810	1,119	102
Durable goods	12,699	1,499	1,182	584	328	1,360	-	177	2,756	3,812	441	480	81
Nondurable goods	8,830	940	591	242	513	990	-	201	1,261	3,063	369	639	21
Transportation and public utilities	8,049	871	522	300	329	2,116	-	273	1,302	113	1,746	454	22
Wholesale and retail trade	24,252	2,025	415	115	9,990	2,363	-	4,703	1,507	327	970	1,793	44
Wholesale trade	4,580	455	68	53	1,817	826	-	25	353	136	488	354	5
Retail trade	19,671	1,570	347	62	8,173	1,537	-	4,677	1,154	191	482	1,440	39
Finance, insurance, and real estate	8,096	2,154	198	159	1,880	3,105	-	319	120	22	13	20	104
Services	39,155	4,936	11,561	2,186	1,048	6,332	824	8,093	1,790	892	464	481	547
Private households	1,145	9	15	3	-	13	824	99	42	2	6	27	103
Other service industries	38,010	4,927	11,546	2,182	1,048	6,319	-	7,995	1,748	890	458	454	444
Professional services	24,704	2,673	10,074	1,735	166	4,530	-	4,447	360	270	232	88	129
Public administration	5,893	1,202	836	246	18	1,686	-	1,408	247	43	55	51	101

¹ Includes protective service, not shown separately.

A-26. Employed civilians with a job but not at work by reason, sex, and pay status

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
	June 1989	June 1990	Total		Wage and salary workers ¹			
			June 1989	June 1990	Paid absences		Unpaid absences	
					June 1989	June 1990	June 1989	June 1990
Total, 16 years and over	7,951	7,946	7,877	7,828	4,280	4,427	3,010	2,774
Vacation	5,383	5,387	5,356	5,312	3,407	3,546	1,646	1,433
Illness	1,246	1,230	1,231	1,217	558	510	595	638
Bad weather	115	24	97	18	(²)	(²)	(²)	(²)
Industrial dispute	45	19	45	19	(²)	(²)	(²)	(²)
All other reasons	1,161	1,286	1,148	1,263	315	370	770	703
Men, 16 years and over	3,469	3,318	3,409	3,228	1,989	1,986	1,096	935
Vacation	2,277	2,205	2,255	2,149	1,600	1,593	504	402
Illness	621	628	607	614	274	268	278	307
All other reasons ³	571	485	546	465	115	125	313	226
Women, 16 years and over	4,483	4,628	4,468	4,600	2,292	2,441	1,915	1,839
Vacation	3,106	3,182	3,101	3,163	1,807	1,953	1,140	1,031
Illness	626	602	623	603	284	243	316	331
All other reasons ³	751	843	744	833	200	246	458	477

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	June 1990					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	111,659	3,597	108,063	100.0	100.0	100.0
1 to 34 hours	24,416	1,010	23,406	21.9	28.1	21.7
1 to 4 hours	681	37	643	.6	1.0	.6
5 to 14 hours	3,880	224	3,656	3.5	6.2	3.4
15 to 29 hours	12,282	498	11,784	11.0	13.8	10.9
30 to 34 hours	7,574	251	7,323	6.8	7.0	6.8
35 hours and over	87,243	2,586	84,657	78.1	71.9	78.3
35 to 39 hours	7,432	126	7,305	6.7	3.5	6.8
40 hours	45,937	730	45,207	41.1	20.3	41.8
41 hours and over	33,874	1,730	32,144	30.3	48.1	29.7
41 to 48 hours	11,783	239	11,544	10.6	6.6	10.7
49 to 59 hours	12,540	471	12,070	11.2	13.1	11.2
60 hours and over	9,551	1,020	8,531	8.6	28.4	7.9
Average hours, total at work	39.9	45.2	39.8	-	-	-
Average hours, workers on full-time schedules	43.8	53.3	43.6	-	-	-

A-28. Persons at work 1 to 34 hours by reason for working less than 35 hours, type of industry, and usual status

(Numbers in thousands)

Reason for working less than 35 hours	June 1990					
	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	24,416	7,337	17,079	23,406	7,051	16,355
Economic reasons	5,519	1,870	3,649	5,207	1,738	3,469
Slack work	2,402	1,423	979	2,204	1,300	904
Material shortages or repairs to plant and equipment	55	55	-	53	53	-
New job started during week	303	303	-	296	296	-
Job terminated during week	89	89	-	90	90	-
Could find only part-time work	2,669	-	2,669	2,565	-	2,565
Other reasons	18,898	5,467	13,431	18,198	5,312	12,886
Does not want, or unavailable for, full-time work	10,941	-	10,941	10,512	-	10,512
Vacation	2,217	2,217	-	2,184	2,184	-
Illness	1,405	1,225	180	1,381	1,210	171
Bad weather	231	231	-	176	176	-
Industrial dispute	14	14	-	14	14	-
Legal or religious holiday	69	69	-	69	69	-
Full time for this job	1,624	-	1,624	1,580	-	1,580
All other reasons	2,396	1,710	686	2,282	1,659	623
Average hours:						
Economic reasons	22.2	24.8	20.8	22.3	24.8	21.0
Other reasons	21.7	25.2	20.3	21.8	25.2	20.4
Worked 30 to 34 hours:						
Economic reasons	1,807	885	922	1,729	833	896
Other reasons	5,766	2,674	3,092	5,593	2,608	2,985

**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	June 1990								
	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	108,063	5,207	12,886	89,969	57,825	11,544	20,600	39.8	43.6
Wage and salary workers	99,601	4,637	11,441	83,523	54,961	10,896	17,666	39.7	43.2
Mining	692	12	9	671	346	99	226	46.3	47.1
Construction	6,360	418	221	5,721	3,706	710	1,305	41.6	43.7
Manufacturing	19,969	501	566	18,902	11,955	2,991	3,957	42.4	43.5
Durable goods	11,787	184	235	11,367	7,113	1,795	2,458	42.9	43.5
Nondurable goods	8,182	317	330	7,535	4,841	1,196	1,499	41.7	43.4
Transportation and public utilities	7,285	152	324	6,809	4,290	902	1,616	42.7	44.2
Wholesale and retail trade	21,071	1,641	4,268	15,162	9,220	2,193	3,749	37.6	43.8
Finance, insurance, and real estate	7,078	134	539	6,405	4,421	754	1,230	40.5	42.5
Service industries	31,579	1,713	5,263	24,604	17,127	2,732	4,746	37.6	42.5
Private households	1,088	190	450	448	302	45	100	27.3	46.0
All other industries	30,492	1,523	4,812	24,157	16,825	2,687	4,645	38.0	42.4
Public administration	5,566	66	251	5,249	3,897	514	838	41.2	42.5
Self-employed workers	8,227	561	1,345	6,320	2,796	625	2,899	41.4	48.1
Unpaid family workers	235	9	101	126	68	23	35	33.9	45.0

A-30. Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status

(Numbers in thousands)

Sex, age, race, and marital status	June 1990							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Total, 16 years and over	108,063	5,207	12,886	89,969	57,825	32,144	39.8	43.6
16 to 19 years	6,466	1,100	2,495	2,871	2,222	649	29.0	40.8
16 to 17 years	2,341	456	1,356	529	428	101	22.6	39.8
18 to 19 years	4,125	643	1,139	2,342	1,794	548	32.6	41.1
20 years and over	101,597	4,108	10,391	87,098	55,603	31,495	40.5	43.7
20 to 24 years	12,291	873	1,667	9,751	6,938	2,813	38.2	42.4
25 years and over	89,306	3,234	8,724	77,347	48,665	28,682	40.8	43.8
25 to 44 years	58,543	2,103	4,650	51,790	31,993	19,797	41.4	44.0
45 to 64 years	27,853	1,000	2,750	24,103	15,629	8,474	40.5	43.5
65 years and over	2,910	132	1,326	1,453	1,041	412	29.7	42.1
Men, 16 years and over	59,602	2,368	3,702	53,533	30,481	23,052	42.7	45.1
16 to 19 years	3,304	527	1,152	1,624	1,202	422	30.6	41.7
16 to 17 years	1,225	240	662	324	249	74	24.2	40.9
18 to 19 years	2,078	287	491	1,300	952	348	34.4	42.0
20 years and over	56,299	1,841	2,549	51,908	29,279	22,630	43.4	45.2
20 to 24 years	6,494	429	618	5,448	3,538	1,910	40.2	43.7
25 years and over	49,804	1,413	1,931	46,461	25,741	20,719	43.8	45.4
25 to 44 years	32,640	948	666	31,026	16,721	14,305	44.5	45.7
45 to 64 years	15,577	420	581	14,576	8,445	6,131	43.5	45.0
65 years and over	1,587	47	684	856	572	284	31.2	42.8
Women, 16 years and over	48,460	2,839	9,185	36,436	27,344	9,092	36.2	41.2
16 to 19 years	3,162	573	1,342	1,247	1,020	227	27.3	39.7
16 to 17 years	1,115	217	694	205	179	27	20.9	37.9
18 to 19 years	2,046	356	649	1,042	841	200	30.8	40.0
20 years and over	45,298	2,266	7,842	35,190	26,324	8,865	36.8	41.3
20 to 24 years	5,797	445	1,049	4,303	3,400	903	36.0	40.8
25 years and over	39,502	1,822	6,793	30,886	22,924	7,963	36.9	41.4
25 to 44 years	25,902	1,157	3,983	20,762	15,270	5,492	37.5	41.4
45 to 64 years	12,276	580	2,169	9,527	7,184	2,343	36.7	41.2
65 years and over	1,323	85	641	597	469	128	27.8	41.1
RACE								
White, 16 years and over	93,289	4,284	11,494	77,511	48,404	29,107	39.9	43.8
Men	52,016	1,954	3,225	46,837	25,862	20,975	42.9	45.4
Women	41,272	2,329	8,269	30,674	22,542	8,133	36.1	41.4
Black, 16 years and over	11,188	777	1,001	9,410	7,294	2,116	38.6	41.8
Men	5,610	346	311	4,953	3,500	1,453	40.7	43.2
Women	5,578	432	690	4,457	3,794	663	36.4	40.2
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	36,876	816	1,309	34,751	18,772	15,980	44.2	45.6
Widowed, divorced, or separated	6,557	291	284	5,983	3,291	2,692	43.5	45.6
Single (never married)	16,169	1,262	2,109	12,798	8,418	4,380	38.8	43.6
Women, 16 years and over:								
Married, spouse present	25,947	1,098	5,634	19,215	14,677	4,538	35.6	40.8
Widowed, divorced, or separated	9,976	567	1,117	8,292	5,911	2,381	38.6	42.2
Single (never married)	12,537	1,173	2,434	8,930	6,756	2,174	35.4	41.3

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Occupation and sex	June 1990								
	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	107,624	5,142	12,843	89,639	57,520	11,514	20,605	39.8	43.6
Managerial and professional specialty	27,640	549	2,342	24,749	13,991	3,120	7,639	42.2	44.8
Executive, administrative, and managerial	14,227	206	631	13,390	6,955	1,795	4,639	44.3	45.8
Professional specialty	13,414	343	1,711	11,360	7,035	1,325	2,999	40.0	43.7
Technical, sales, and administrative support	34,725	1,371	5,376	27,978	19,258	3,397	5,323	38.4	42.6
Technicians and related support	3,727	46	291	3,390	2,325	474	591	40.7	42.6
Sales occupations	13,480	767	2,463	10,251	5,569	1,297	3,384	39.4	45.2
Administrative support, including clerical	17,518	559	2,622	14,337	11,365	1,525	1,348	37.1	40.8
Service occupations	15,015	1,572	3,541	9,902	7,136	1,048	1,718	35.1	42.6
Private household	787	118	335	334	226	37	71	28.5	46.6
Protective service	1,868	55	130	1,684	991	244	449	43.5	45.8
Service, except private household and protective	12,360	1,399	3,076	7,885	5,918	768	1,199	34.3	41.8
Precision production, craft, and repair	13,168	595	438	12,135	7,482	1,780	2,874	42.4	44.0
Operators, fabricators, and laborers	17,075	1,055	1,145	14,875	9,654	2,169	3,052	40.8	43.6
Machine operators, assemblers, and inspectors	7,888	380	303	7,206	4,977	1,119	1,109	40.9	42.6
Transportation and material moving occupations	4,450	187	264	3,999	2,029	599	1,372	44.2	46.8
Handlers, equipment cleaners, helpers, and laborers	4,737	489	578	3,670	2,648	451	571	37.5	42.2
Men, 16 years and over ¹	59,012	2,299	3,600	53,114	30,117	7,241	15,755	42.8	45.2
Managerial and professional specialty	15,703	262	672	14,769	7,191	1,799	5,779	45.1	46.7
Executive, administrative, and managerial	8,602	129	229	8,244	3,687	1,033	3,524	46.2	47.4
Professional specialty	7,102	133	443	6,525	3,503	766	2,255	43.8	46.0
Technical, sales, and administrative support	12,474	328	978	11,168	6,068	1,527	3,574	42.9	45.5
Technicians and related support	1,902	13	58	1,830	1,157	268	405	42.9	43.7
Sales occupations	6,936	211	603	6,122	2,668	314	2,639	44.4	47.5
Administrative support, including clerical	3,636	103	316	3,216	2,243	444	529	40.0	42.6
Service occupations	6,071	479	881	4,710	3,152	553	1,005	38.8	43.9
Private household	32	15	5	12	10	1	1	(²)	(²)
Protective service	1,585	40	90	1,455	830	218	408	44.4	46.3
Service, except private household and protective	4,455	425	787	3,243	2,312	335	596	36.9	42.9
Precision production, craft, and repair	12,057	531	322	11,204	6,791	1,665	2,747	42.7	44.3
Operators, fabricators, and laborers	12,707	698	746	11,263	6,916	1,596	2,651	41.7	44.3
Machine operators, assemblers, and inspectors	4,674	147	104	4,424	2,878	728	817	42.2	43.3
Transportation and material moving occupations	4,125	147	197	3,781	1,883	578	1,320	44.8	46.9
Handlers, equipment cleaners, helpers, and laborers	3,908	404	446	3,058	2,155	390	513	38.0	42.5
Women, 16 years and over ¹	48,612	2,843	9,244	36,525	27,403	4,273	4,850	36.2	41.3
Managerial and professional specialty	11,937	287	1,670	9,980	6,800	1,320	1,860	38.4	41.9
Executive, administrative, and managerial	5,625	77	402	5,146	3,268	762	1,116	41.5	43.3
Professional specialty	6,312	210	1,268	4,834	3,532	558	744	35.7	40.5
Technical, sales, and administrative support	22,251	1,043	4,398	16,810	13,190	1,370	1,749	35.9	40.7
Technicians and related support	1,825	32	233	1,560	1,168	206	186	38.5	41.2
Sales occupations	6,544	555	1,860	4,129	2,901	483	745	34.1	41.7
Administrative support, including clerical	13,882	456	2,305	11,121	9,121	1,181	819	36.4	40.3
Service occupations	8,944	1,093	2,659	5,192	3,984	495	713	32.7	41.5
Private household	755	103	330	322	216	36	69	28.7	46.9
Protective service	283	15	40	228	162	26	41	38.2	42.7
Service, except private household and protective	7,905	974	2,289	4,642	3,607	433	602	32.9	41.1
Precision production, craft, and repair	1,111	63	117	931	690	114	127	38.6	41.4
Operators, fabricators, and laborers	4,368	357	399	3,612	2,738	473	401	38.2	41.4
Machine operators, assemblers, and inspectors	3,214	232	200	2,782	2,099	391	292	39.0	41.3
Transportation and material moving occupations	324	39	67	218	146	21	51	37.1	45.2
Handlers, equipment cleaners, helpers, and laborers	830	86	132	612	492	61	58	35.5	40.4

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	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
TOTAL													
Noninstitutional population ¹	187,995	188,149	188,286	188,428	188,580	188,721	188,865	188,990	189,090	189,198	189,326	189,467	189,607
Labor force ¹	125,777	125,679	125,758	125,725	125,857	126,192	126,246	126,094	126,308	126,498	126,543	126,643	126,466
Percent of population ²	66.9	66.8	66.8	66.7	66.7	66.9	66.8	66.7	66.8	66.9	66.8	66.8	66.7
Total employed ¹	119,208	119,102	119,238	119,121	119,294	119,540	119,588	119,560	119,713	120,003	119,773	119,989	120,019
Employment-population ratio ³	63.4	63.3	63.3	63.2	63.3	63.3	63.3	63.3	63.3	63.4	63.3	63.3	63.3
Resident Armed Forces	1,666	1,666	1,688	1,702	1,709	1,704	1,700	1,697	1,678	1,669	1,657	1,639	1,630
Civilian employed	117,542	117,436	117,550	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350	118,389
Agriculture	3,138	3,217	3,275	3,219	3,197	3,160	3,197	3,134	3,079	3,200	3,133	3,305	3,348
Nonagricultural industries	114,404	114,219	114,275	114,200	114,388	114,676	114,691	114,728	114,957	115,133	114,983	115,045	115,041
Unemployed	6,569	6,577	6,520	6,604	6,563	6,652	6,658	6,535	6,594	6,495	6,770	6,653	6,447
Unemployment rate ⁴	5.2	5.2	5.2	5.3	5.2	5.3	5.3	5.2	5.2	5.1	5.3	5.3	5.1
Not in labor force	62,218	62,470	62,528	62,703	62,723	62,529	62,619	62,896	62,782	62,700	62,783	62,824	63,141
Men													
Noninstitutional population ¹	90,237	90,315	90,384	90,456	90,535	90,606	90,678	90,772	90,822	90,874	90,942	91,014	91,087
Labor force ¹	69,542	69,366	69,404	69,360	69,599	69,635	69,725	69,539	69,639	69,712	69,779	69,737	69,599
Percent of population ²	77.1	76.8	76.8	76.7	76.9	76.9	76.9	76.6	76.7	76.7	76.7	76.6	76.4
Total employed ¹	66,078	65,939	65,919	65,681	66,046	66,011	66,143	65,943	66,108	66,208	66,043	66,058	66,000
Employment-population ratio ³	73.2	73.0	72.9	72.6	73.0	72.9	72.9	72.6	72.8	72.9	72.6	72.6	72.5
Resident Armed Forces	1,501	1,499	1,519	1,531	1,533	1,529	1,525	1,523	1,506	1,497	1,499	1,472	1,465
Civilian employed	64,577	64,440	64,400	64,150	64,513	64,482	64,618	64,420	64,602	64,711	64,544	64,586	64,535
Unemployed	3,464	3,427	3,485	3,679	3,553	3,624	3,582	3,597	3,530	3,505	3,735	3,679	3,599
Unemployment rate ⁴	5.0	4.9	5.0	5.3	5.1	5.2	5.1	5.2	5.1	5.0	5.4	5.3	5.2
Not in labor force	20,695	20,949	20,980	21,096	20,936	20,971	20,953	21,233	21,183	21,162	21,163	21,277	21,488
Women													
Noninstitutional population ¹	97,758	97,834	97,902	97,972	98,045	98,115	98,187	98,218	98,268	98,324	98,383	98,453	98,520
Labor force ¹	56,235	56,313	56,354	56,365	56,258	56,557	56,521	56,555	56,669	56,785	56,764	56,906	56,867
Percent of population ²	57.5	57.6	57.6	57.5	57.4	57.6	57.6	57.6	57.7	57.8	57.7	57.8	57.7
Total employed ¹	53,130	53,163	53,319	53,440	53,248	53,529	53,445	53,617	53,605	53,795	53,729	53,931	54,019
Employment-population ratio ³	54.3	54.3	54.5	54.5	54.3	54.6	54.4	54.6	54.5	54.7	54.6	54.8	54.8
Resident Armed Forces	165	167	169	171	176	175	175	174	172	172	158	167	165
Civilian employed	52,965	52,996	53,150	53,269	53,072	53,354	53,270	53,443	53,433	53,623	53,571	53,764	53,854
Unemployed	3,105	3,150	3,035	2,925	3,010	3,028	3,076	2,938	3,064	2,990	3,034	2,975	2,848
Unemployment rate ⁴	5.5	5.6	5.4	5.2	5.4	5.4	5.4	5.2	5.4	5.3	5.3	5.2	5.0
Not in labor force	41,523	41,521	41,548	41,607	41,787	41,558	41,666	41,663	41,599	41,539	41,619	41,547	41,653

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	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
TOTAL													
Civilian noninstitutional population ¹	186,329	186,483	186,598	186,726	186,871	187,017	187,165	187,293	187,412	187,529	187,669	187,828	187,977
Civilian labor force	124,111	124,013	124,070	124,023	124,148	124,488	124,546	124,397	124,630	124,829	124,886	125,004	124,836
Percent of population	66.6	66.5	66.5	66.4	66.4	66.6	66.5	66.4	66.5	66.6	66.5	66.6	66.4
Employed	117,542	117,436	117,550	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350	118,389
Employment-population ratio ²	63.1	63.0	63.0	62.9	62.9	63.0	63.0	62.9	63.0	63.1	62.9	63.0	63.0
Unemployed	6,569	6,577	6,520	6,604	6,563	6,652	6,658	6,535	6,594	6,495	6,770	6,653	6,447
Unemployment rate	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.4	5.3	5.2
Men, 20 years and over													
Civilian noninstitutional population ¹	81,592	81,679	81,754	81,790	81,905	81,968	82,055	82,168	82,248	82,378	82,487	82,581	82,676
Civilian labor force	63,874	63,736	63,717	63,771	63,918	63,967	64,071	63,958	64,101	64,183	64,251	64,312	64,364
Percent of population	78.3	78.0	77.9	78.0	78.0	78.0	78.1	77.8	77.9	77.9	77.9	77.9	77.9
Employed	61,072	60,915	60,861	60,729	61,026	61,033	61,154	60,976	61,172	61,270	61,138	61,265	61,345
Employment-population ratio ²	74.9	74.6	74.4	74.2	74.5	74.5	74.5	74.2	74.4	74.4	74.1	74.2	74.2
Agriculture	2,279	2,329	2,340	2,330	2,304	2,292	2,293	2,269	2,254	2,268	2,258	2,388	2,400
Nonagricultural industries	58,793	58,586	58,521	58,399	58,722	58,741	58,861	58,706	58,918	59,002	58,879	58,877	58,945
Unemployed	2,802	2,821	2,856	3,042	2,892	2,934	2,917	2,983	2,929	2,913	3,113	3,047	3,019
Unemployment rate	4.4	4.4	4.5	4.8	4.5	4.6	4.6	4.7	4.6	4.5	4.8	4.7	4.7
Not in labor force	17,718	17,943	18,037	18,019	17,987	18,001	17,984	18,210	18,147	13,195	18,236	18,269	18,312
Women, 20 years and over													
Civilian noninstitutional population ¹	90,526	90,607	90,684	90,771	90,860	90,952	91,042	91,091	91,157	91,237	91,330	91,414	91,495
Civilian labor force	52,219	52,385	52,352	52,358	52,281	52,541	52,586	52,686	52,814	52,800	52,954	53,146	53,174
Percent of population	57.7	57.8	57.7	57.7	57.5	57.8	57.8	57.8	57.9	57.9	58.0	58.1	58.1
Employed	49,687	49,817	49,875	49,984	49,796	50,043	50,048	50,255	50,287	50,344	50,427	50,709	50,776
Employment-population ratio ²	54.9	55.0	55.0	55.1	54.8	55.0	55.0	55.2	55.2	55.2	55.2	55.5	55.5
Agriculture	622	639	642	660	641	624	618	594	582	648	669	680	700
Nonagricultural industries	49,065	49,178	49,233	49,324	49,155	49,419	49,430	49,661	49,704	49,696	49,758	50,029	50,077
Unemployed	2,532	2,568	2,477	2,374	2,485	2,498	2,538	2,431	2,527	2,456	2,526	2,438	2,398
Unemployment rate	4.8	4.9	4.7	4.5	4.8	4.8	4.8	4.6	4.8	4.7	4.8	4.6	4.5
Not in labor force	38,307	38,222	38,332	38,413	38,579	38,411	38,456	38,405	38,343	38,437	38,376	38,268	38,321
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,211	14,196	14,160	14,166	14,107	14,097	14,067	14,034	14,008	13,914	13,852	13,832	13,806
Civilian labor force	8,018	7,892	8,001	7,894	7,949	7,980	7,889	7,752	7,715	7,846	7,681	7,545	7,298
Percent of population	56.4	55.6	56.5	55.7	56.3	56.6	56.1	55.2	55.1	56.4	55.4	54.6	52.9
Employed	6,783	6,704	6,814	6,706	6,763	6,760	6,686	6,631	6,577	6,720	6,551	6,376	6,268
Employment-population ratio ²	47.7	47.2	48.1	47.3	47.9	48.0	47.5	47.3	47.0	48.3	47.3	46.1	45.4
Agriculture	237	249	293	229	252	244	286	270	243	285	206	237	249
Nonagricultural industries	6,546	6,455	6,521	6,477	6,511	6,516	6,400	6,361	6,334	6,435	6,345	6,139	6,019
Unemployed	1,235	1,188	1,187	1,188	1,186	1,220	1,203	1,121	1,138	1,126	1,130	1,169	1,030
Unemployment rate	15.4	15.1	14.8	15.0	14.9	15.3	15.2	14.5	14.8	14.4	14.7	15.5	14.1
Not in labor force	6,193	6,304	6,159	6,272	6,158	6,117	6,178	6,282	6,293	6,068	6,171	6,287	6,508

¹ The population figures are not adjusted for seasonal variation.

² Civilian employment as a percent of the civilian noninstitutional

population.

**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	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
WHITE													
Civilian noninstitutional population ¹	159,297	159,400	159,470	159,549	159,644	159,736	159,832	159,938	160,007	160,076	160,170	160,271	160,365
Civilian labor force	106,474	106,384	106,485	106,393	106,618	106,834	106,896	106,884	107,080	107,061	107,133	107,353	107,273
Percent of population	66.8	66.7	66.8	66.7	66.8	66.9	66.9	66.8	66.9	66.9	66.9	67.0	66.9
Employed	101,683	101,546	101,684	101,579	101,862	101,991	102,032	102,074	102,117	102,206	102,027	102,362	102,461
Employment-population ratio ²	63.8	63.7	63.8	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.7	63.9	63.9
Unemployed	4,791	4,838	4,801	4,814	4,756	4,843	4,864	4,811	4,962	4,856	5,106	4,991	4,812
Unemployment rate	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.5	4.6	4.5	4.8	4.6	4.5
Men, 20 years and over													
Civilian labor force	55,544	55,463	55,443	55,465	55,626	55,676	55,747	55,771	55,815	55,828	55,826	55,919	55,932
Percent of population	78.7	78.5	78.4	78.3	78.5	78.5	78.5	78.4	78.4	78.4	78.3	78.3	78.3
Employed	53,437	53,331	53,307	53,153	53,483	53,482	53,580	53,560	53,547	53,593	53,425	53,578	53,650
Employment-population ratio ²	75.7	75.4	75.4	75.1	75.5	75.4	75.5	75.3	75.2	75.2	74.9	75.1	75.1
Unemployed	2,107	2,132	2,136	2,312	2,143	2,194	2,167	2,211	2,268	2,235	2,400	2,341	2,282
Unemployment rate	3.8	3.8	3.9	4.2	3.9	3.9	3.9	4.0	4.1	4.0	4.3	4.2	4.1
Women, 20 years and over													
Civilian labor force	44,076	44,230	44,184	44,198	44,207	44,360	44,469	44,475	44,615	44,523	44,740	44,925	45,055
Percent of population	57.2	57.3	57.2	57.2	57.1	57.3	57.4	57.4	57.5	57.4	57.6	57.8	57.9
Employed	42,279	42,377	42,391	42,520	42,437	42,586	42,641	42,718	42,782	42,765	42,895	43,165	43,292
Employment-population ratio ²	54.8	54.9	54.9	55.0	54.9	55.0	55.0	55.1	55.2	55.1	55.2	55.5	55.6
Unemployed	1,797	1,853	1,793	1,678	1,770	1,774	1,828	1,757	1,833	1,758	1,844	1,760	1,763
Unemployment rate	4.1	4.2	4.1	3.8	4.0	4.0	4.1	4.0	4.1	3.9	4.1	3.9	3.9
Both sexes, 16 to 19 years													
Civilian labor force	6,854	6,691	6,858	6,730	6,785	6,798	6,680	6,639	6,650	6,710	6,568	6,509	6,286
Percent of population	59.3	58.0	59.6	58.7	59.4	59.7	58.9	58.7	59.0	59.8	58.8	58.4	56.6
Employed	5,967	5,838	5,986	5,906	5,942	5,923	5,811	5,796	5,788	5,847	5,707	5,619	5,519
Employment-population ratio ²	51.6	50.6	52.0	51.5	52.0	52.0	51.2	51.3	51.4	52.1	51.1	50.4	49.7
Unemployed	887	853	872	824	843	875	869	843	862	863	861	890	767
Unemployment rate	12.9	12.7	12.7	12.2	12.4	12.9	13.0	12.7	13.0	12.9	13.1	13.7	12.2
Men	13.5	12.8	13.1	13.3	13.8	14.3	14.0	12.9	12.7	13.0	13.8	14.2	12.9
Women	12.3	12.6	12.3	11.1	10.9	11.3	11.9	12.4	13.2	12.7	12.4	13.1	11.4
BLACK													
Civilian noninstitutional population ¹	21,012	21,038	21,060	21,085	21,108	21,136	21,164	21,163	21,188	21,211	21,228	21,261	21,289
Civilian labor force	13,569	13,548	13,476	13,518	13,507	13,576	13,522	13,510	13,437	13,581	13,570	13,587	13,472
Percent of population	64.6	64.4	64.0	64.1	64.0	64.2	63.9	63.8	63.4	64.0	63.9	63.9	63.3
Employed	11,969	12,063	11,961	11,938	11,923	11,954	11,920	11,978	12,030	12,148	12,161	12,179	12,064
Employment-population ratio ²	57.0	57.3	56.8	56.6	56.5	56.6	56.3	56.6	56.8	57.3	57.3	57.3	56.7
Unemployed	1,600	1,485	1,515	1,580	1,584	1,622	1,602	1,532	1,407	1,433	1,409	1,408	1,407
Unemployment rate	11.8	11.0	11.2	11.7	11.7	11.9	11.8	11.3	10.5	10.6	10.4	10.4	10.4
Men, 20 years and over													
Civilian labor force	6,206	6,209	6,198	6,239	6,234	6,247	6,244	6,189	6,172	6,227	6,240	6,241	6,293
Percent of population	74.2	74.1	73.9	74.6	74.2	74.2	74.0	73.5	73.3	73.6	73.7	73.5	74.0
Employed	5,613	5,621	5,584	5,610	5,593	5,587	5,569	5,496	5,603	5,631	5,651	5,672	5,702
Employment-population ratio ²	67.1	67.1	66.6	67.0	66.6	66.4	66.0	65.2	66.6	66.5	66.8	66.8	67.1
Unemployed	593	588	614	629	641	660	675	693	569	596	589	569	591
Unemployment rate	9.6	9.5	9.9	10.1	10.3	10.6	10.8	11.2	9.2	9.6	9.4	9.1	9.4
Women, 20 years and over													
Civilian labor force	6,401	6,386	6,362	6,360	6,336	6,373	6,311	6,393	6,423	6,456	6,451	6,516	6,377
Percent of population	61.1	60.9	60.6	60.5	60.2	60.4	59.7	60.5	60.7	60.9	60.8	61.3	59.9
Employed	5,732	5,755	5,753	5,743	5,706	5,722	5,681	5,802	5,821	5,872	5,858	5,921	5,812
Employment-population ratio ²	54.7	54.9	54.8	54.6	54.2	54.2	53.8	54.9	55.0	55.4	55.2	55.7	54.6
Unemployed	669	631	609	617	630	651	630	591	602	584	594	595	565
Unemployment rate	10.5	9.9	9.6	9.7	9.9	10.2	10.0	9.2	9.4	9.0	9.2	9.1	8.9

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	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	962	953	916	919	937	956	967	928	842	898	879	830	802
Percent of population	44.2	43.8	42.2	41.8	43.0	44.0	44.6	42.8	38.5	41.7	40.8	38.6	37.4
Employed	624	687	624	585	624	645	670	680	606	645	652	586	550
Employment-population ratio ²	28.7	31.6	28.7	26.6	28.6	29.7	30.9	31.3	27.7	30.0	30.3	27.3	25.6
Unemployed	338	266	292	334	313	311	297	248	236	253	227	244	252
Unemployment rate	35.1	27.9	31.9	36.3	33.4	32.5	30.7	26.7	28.0	28.2	25.8	29.4	31.4
Men	33.8	23.2	30.3	33.8	32.0	32.3	30.1	29.2	28.5	30.0	27.2	31.1	37.4
Women	36.8	33.1	33.6	38.8	34.9	32.7	31.4	24.0	27.5	26.2	24.3	27.6	25.3
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	13,772	13,813	13,853	13,894	13,936	13,977	14,019	14,080	14,119	14,159	14,198	14,238	14,277
Civilian labor force	9,289	9,403	9,361	9,342	9,339	9,424	9,495	9,440	9,400	9,565	9,618	9,669	9,651
Percent of population	67.4	68.1	67.6	67.2	67.0	67.4	67.7	67.0	66.6	67.6	67.7	67.9	67.6
Employed	8,543	8,579	8,541	8,564	8,595	8,672	8,691	8,769	8,666	8,831	8,850	8,927	8,967
Employment-population ratio ²	62.0	62.1	61.7	61.6	61.7	62.0	62.3	61.4	62.4	62.3	62.3	62.7	62.8
Unemployed	746	824	820	778	744	752	804	671	734	734	768	742	684
Unemployment rate	8.0	8.8	8.8	8.3	8.0	8.0	8.5	7.1	7.8	7.7	8.0	7.7	7.1

¹ The population figures are not adjusted for seasonal variation.

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

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

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

(In thousands)

Category	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
CHARACTERISTIC													
Total	117,542	117,436	117,550	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350	118,389
Married men, spouse present	41,025	41,067	40,723	40,649	40,839	40,886	41,041	40,982	41,347	40,989	40,730	40,881	40,554
Married women, spouse present	29,499	29,520	29,259	29,506	29,544	29,767	29,695	29,897	29,704	29,618	29,742	30,046	29,856
Women who maintain families	6,401	6,446	6,371	6,429	6,354	6,351	6,349	6,215	6,378	6,291	6,325	6,400	6,467
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,557	1,685	1,723	1,680	1,678	1,687	1,677	1,634	1,578	1,620	1,621	1,728	1,685
Self-employed workers	1,411	1,424	1,410	1,424	1,406	1,373	1,369	1,354	1,375	1,457	1,429	1,502	1,507
Unpaid family workers	126	127	133	132	124	122	125	107	118	115	112	101	106
Nonagricultural industries:													
Wage and salary workers	105,430	105,353	105,317	105,476	105,504	105,960	105,643	105,747	106,117	106,029	105,938	106,176	105,985
Government	17,328	17,501	17,559	17,613	17,595	17,681	17,728	17,626	17,607	17,724	17,816	18,113	17,863
Private industries	88,102	87,852	87,758	87,863	87,909	88,279	87,915	88,121	88,510	88,306	88,122	88,063	88,121
Private households	1,128	1,094	1,147	1,065	987	1,051	1,077	1,035	1,021	1,003	957	941	1,056
Other industries	86,974	86,758	86,611	86,798	86,922	87,228	86,838	87,086	87,489	87,302	87,165	87,122	87,065
Self-employed workers	8,578	8,602	8,621	8,581	8,610	8,528	8,653	8,733	8,628	8,852	8,716	8,783	8,759
Unpaid family workers	245	248	272	279	280	264	251	256	313	261	258	254	226
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	4,928	4,773	4,802	4,864	4,767	4,803	4,802	4,983	4,887	5,004	4,871	4,831	5,013
Slack work	2,315	2,301	2,281	2,321	2,314	2,297	2,277	2,402	2,307	2,476	2,407	2,439	2,499
Could only find part-time work	2,269	2,172	2,142	2,161	2,082	2,162	2,106	2,255	2,211	2,127	2,138	2,052	2,224
Voluntary part time	15,466	15,577	15,550	15,506	15,368	15,254	15,388	14,931	15,381	15,464	15,193	15,592	15,125
Nonagricultural industries:													
Part time for economic reasons	4,738	4,583	4,567	4,605	4,526	4,552	4,554	4,729	4,703	4,747	4,630	4,666	4,734
Slack work	2,183	2,164	2,129	2,165	2,166	2,132	2,111	2,240	2,183	2,293	2,218	2,317	2,284
Could only find part-time work	2,198	2,104	2,076	2,095	2,021	2,097	2,051	2,172	2,173	2,050	2,096	2,004	2,141
Voluntary part time	15,016	15,138	15,071	15,076	14,936	14,805	14,983	14,515	14,924	14,975	14,804	15,064	14,627

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

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(In thousands)

Sex and age	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over	117,542	117,436	117,550	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350	118,389
16 to 24 years	19,889	19,781	19,813	19,489	19,487	19,482	19,298	19,309	19,247	19,459	19,196	19,080	18,979
16 to 19 years	6,783	6,704	6,814	6,706	6,763	6,760	6,686	6,631	6,577	6,720	6,551	6,376	6,268
16 to 17 years	2,557	2,465	2,574	2,571	2,645	2,598	2,518	2,501	2,513	2,557	2,460	2,386	2,300
18 to 19 years	4,199	4,233	4,236	4,149	4,130	4,152	4,161	4,132	4,072	4,164	4,086	3,992	3,946
20 to 24 years	13,106	13,077	12,999	12,783	12,724	12,722	12,612	12,678	12,670	12,739	12,646	12,704	12,711
25 years and over	97,643	97,726	97,809	97,946	98,122	98,345	98,594	98,547	98,722	98,803	98,836	99,285	99,458
25 to 54 years	82,704	82,821	83,064	83,170	83,316	83,594	83,680	83,690	83,856	83,938	83,969	84,344	84,452
55 years and over	14,878	14,914	14,780	14,825	14,818	14,784	14,849	14,805	14,867	14,870	14,856	14,971	14,934
Men, 16 years and over	64,577	64,440	64,400	64,150	64,513	64,482	64,618	64,420	64,602	64,711	64,544	64,586	64,535
16 to 24 years	10,372	10,291	10,275	10,070	10,211	10,123	10,128	10,091	10,071	10,110	10,018	9,992	9,883
16 to 19 years	3,505	3,525	3,539	3,421	3,487	3,449	3,464	3,444	3,430	3,441	3,407	3,321	3,189
16 to 17 years	1,305	1,288	1,372	1,280	1,357	1,329	1,308	1,298	1,315	1,317	1,270	1,224	1,166
18 to 19 years	2,187	2,245	2,159	2,138	2,134	2,140	2,153	2,149	2,121	2,126	2,130	2,071	2,009
20 to 24 years	6,867	6,766	6,736	6,649	6,724	6,674	6,664	6,647	6,640	6,669	6,611	6,671	6,694
25 years and over	54,197	54,182	54,171	54,095	54,302	54,362	54,494	54,335	54,463	54,558	54,475	54,605	54,658
25 to 54 years	45,568	45,603	45,708	45,696	45,829	45,938	46,048	45,832	46,013	46,081	46,041	46,099	46,106
55 years and over	8,576	8,583	8,462	8,439	8,488	8,432	8,441	8,509	8,485	8,480	8,432	8,498	8,489
Women, 16 years and over	52,965	52,996	53,150	53,269	53,072	53,354	53,270	53,443	53,433	53,623	53,571	53,764	53,854
16 to 24 years	9,517	9,490	9,538	9,419	9,276	9,359	9,170	9,218	9,176	9,349	9,178	9,088	9,095
16 to 19 years	3,278	3,179	3,275	3,285	3,276	3,311	3,222	3,187	3,146	3,279	3,144	3,056	3,078
16 to 17 years	1,252	1,177	1,202	1,291	1,288	1,269	1,210	1,203	1,198	1,240	1,190	1,162	1,134
18 to 19 years	2,012	1,988	2,077	2,011	1,996	2,012	2,008	1,983	1,951	2,038	1,956	1,921	1,937
20 to 24 years	6,239	6,311	6,263	6,134	6,000	6,048	5,948	6,030	6,029	6,070	6,034	6,032	6,017
25 years and over	43,446	43,544	43,638	43,851	43,820	43,983	44,100	44,212	44,259	44,245	44,361	44,679	44,800
25 to 54 years	37,136	37,218	37,356	37,474	37,487	37,656	37,632	37,859	37,844	37,857	37,928	38,245	38,346
55 years and over	6,302	6,331	6,318	6,386	6,330	6,352	6,408	6,296	6,382	6,390	6,424	6,472	6,444

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

(In thousands)

Sex and age	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over	6,569	6,577	6,520	6,604	6,563	6,652	6,658	6,535	6,594	6,495	6,770	6,653	6,447
16 to 24 years	2,485	2,419	2,437	2,426	2,428	2,472	2,428	2,299	2,294	2,274	2,425	2,349	2,171
16 to 19 years	1,235	1,188	1,187	1,188	1,186	1,220	1,203	1,121	1,138	1,126	1,130	1,169	1,030
16 to 17 years	540	530	545	534	536	548	558	434	509	520	519	597	442
18 to 19 years	719	638	623	684	645	665	645	683	609	615	609	587	612
20 to 24 years	1,250	1,231	1,250	1,238	1,242	1,252	1,225	1,178	1,156	1,148	1,295	1,180	1,141
25 years and over	4,054	4,106	4,069	4,197	4,144	4,188	4,242	4,279	4,304	4,237	4,347	4,245	4,266
25 to 54 years	3,546	3,629	3,568	3,701	3,652	3,688	3,744	3,780	3,781	3,727	3,864	3,832	3,850
55 years and over	507	480	473	465	464	496	494	525	526	515	505	464	433
Men, 16 years and over	3,464	3,427	3,485	3,679	3,553	3,624	3,582	3,597	3,530	3,505	3,735	3,679	3,599
16 to 24 years	1,332	1,263	1,330	1,361	1,349	1,380	1,361	1,267	1,226	1,236	1,343	1,261	1,233
16 to 19 years	662	606	629	637	661	690	665	614	601	592	622	632	580
16 to 17 years	316	279	295	311	308	312	319	214	259	267	281	318	228
18 to 19 years	347	309	325	340	353	382	346	397	336	336	341	320	350
20 to 24 years	670	657	701	724	688	690	696	653	625	644	721	629	653
25 years and over	2,102	2,132	2,143	2,313	2,214	2,258	2,238	2,373	2,313	2,291	2,387	2,358	2,343
25 to 54 years	1,815	1,858	1,821	1,978	1,919	1,967	1,917	2,079	2,018	1,997	2,099	2,089	2,066
55 years and over	275	278	293	310	280	303	314	313	308	300	310	296	275
Women, 16 years and over	3,105	3,150	3,035	2,925	3,010	3,028	3,076	2,938	3,064	2,990	3,034	2,975	2,848
16 to 24 years	1,153	1,156	1,107	1,065	1,079	1,092	1,067	1,032	1,069	1,038	1,082	1,087	938
16 to 19 years	573	582	558	551	525	530	538	507	537	534	508	537	450
16 to 17 years	224	251	250	223	228	236	239	220	250	253	238	279	214
18 to 19 years	372	329	298	344	292	283	299	286	273	279	268	267	262
20 to 24 years	580	574	549	514	554	562	529	525	532	504	574	550	488
25 years and over	1,952	1,974	1,926	1,884	1,930	1,930	2,004	1,906	1,991	1,945	1,961	1,887	1,923
25 to 54 years	1,731	1,771	1,747	1,723	1,733	1,721	1,827	1,701	1,763	1,730	1,765	1,742	1,785
55 years and over	232	202	180	155	184	193	180	212	218	216	195	169	158

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Civilian workers)

Sex and age	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.4	5.3	5.2
16 to 24 years	11.1	10.9	11.0	11.1	11.1	11.3	11.2	10.6	10.7	10.5	11.2	11.0	10.3
16 to 19 years	15.4	15.1	14.8	15.0	14.9	15.3	15.2	14.5	14.8	14.4	14.7	15.5	14.1
16 to 17 years	17.4	17.7	17.5	17.2	16.9	17.4	18.1	14.8	16.8	16.9	17.4	20.0	16.1
18 to 19 years	14.6	13.1	12.8	14.2	13.5	13.8	13.4	14.2	13.0	12.9	13.0	12.8	13.4
20 to 24 years	8.7	8.6	8.8	8.8	8.9	9.0	8.9	8.5	8.4	8.3	9.3	8.5	8.2
25 years and over	4.0	4.0	4.0	4.1	4.1	4.1	4.1	4.2	4.2	4.1	4.2	4.1	4.1
25 to 54 years	4.1	4.2	4.1	4.3	4.2	4.2	4.3	4.3	4.3	4.3	4.4	4.3	4.4
55 years and over	3.3	3.1	3.1	3.0	3.0	3.2	3.2	3.4	3.4	3.3	3.3	3.0	2.8
Men, 16 years and over	5.1	5.0	5.1	5.4	5.2	5.3	5.3	5.3	5.2	5.1	5.5	5.4	5.3
16 to 24 years	11.4	10.9	11.5	11.9	11.7	12.0	11.8	11.2	10.9	10.9	11.8	11.2	11.1
16 to 19 years	15.9	14.7	15.1	15.7	15.9	16.7	16.1	15.1	14.9	14.7	15.4	16.0	15.4
16 to 17 years	19.5	17.8	17.7	19.5	18.5	19.0	19.6	14.2	16.5	16.9	18.1	20.6	16.4
18 to 19 years	13.7	12.1	13.1	13.7	14.2	15.1	13.8	15.6	13.7	13.6	13.8	13.4	14.8
20 to 24 years	8.9	8.9	9.4	9.8	9.3	9.4	9.5	8.9	8.6	8.8	9.8	8.6	8.9
25 years and over	3.7	3.8	3.8	4.1	3.9	4.0	3.9	4.2	4.1	4.0	4.2	4.1	4.1
25 to 54 years	3.8	3.9	3.8	4.1	4.0	4.1	4.0	4.3	4.2	4.2	4.4	4.3	4.3
55 years and over	3.1	3.1	3.3	3.5	3.2	3.5	3.6	3.6	3.5	3.4	3.5	3.4	3.1
Women, 16 years and over	5.5	5.6	5.4	5.2	5.4	5.4	5.5	5.2	5.4	5.3	5.4	5.2	5.0
16 to 24 years	10.8	10.9	10.4	10.2	10.4	10.4	10.4	10.1	10.4	10.0	10.5	10.7	9.3
16 to 19 years	14.9	15.5	14.6	14.4	13.8	13.8	14.3	13.7	14.6	14.0	13.9	14.9	12.8
16 to 17 years	15.2	17.6	17.2	14.7	15.0	15.7	16.5	15.5	17.3	16.9	16.7	19.4	15.9
18 to 19 years	15.6	14.2	12.5	14.6	12.8	12.3	13.0	12.6	12.3	12.0	12.1	12.2	11.9
20 to 24 years	8.5	8.3	8.1	7.7	8.5	8.5	8.2	8.0	8.1	7.7	8.7	8.4	7.5
25 years and over	4.3	4.3	4.2	4.1	4.2	4.2	4.3	4.1	4.3	4.2	4.2	4.1	4.1
25 to 54 years	4.5	4.5	4.5	4.4	4.4	4.4	4.6	4.3	4.5	4.4	4.4	4.4	4.4
55 years and over	3.6	3.1	2.8	2.4	2.8	2.9	2.7	3.3	3.3	3.3	2.9	2.5	2.4

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
CHARACTERISTIC													
Total (all civilian workers)	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.4	5.3	5.2
Men, 20 years and over	4.4	4.4	4.5	4.8	4.5	4.6	4.6	4.7	4.6	4.5	4.8	4.7	4.7
Women, 20 years and over	4.8	4.9	4.7	4.5	4.8	4.8	4.8	4.6	4.8	4.7	4.8	4.6	4.5
Both sexes, 16 to 19 years	15.4	15.1	14.8	15.0	14.9	15.3	15.2	14.5	14.8	14.4	14.7	15.5	14.1
White	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.5	4.6	4.5	4.8	4.6	4.5
Black and other	10.2	9.6	9.7	10.2	10.2	10.3	10.2	10.1	9.2	9.4	9.1	9.3	9.4
Black	11.8	11.0	11.2	11.7	11.7	11.9	11.8	11.3	10.5	10.6	10.4	10.4	10.4
Hispanic origin	8.0	8.8	8.8	8.3	8.0	8.0	8.5	7.1	7.8	7.7	8.0	7.7	7.1
Married men, spouse present	2.9	3.0	3.1	3.3	3.0	3.1	3.0	3.4	3.0	3.2	3.3	3.3	3.2
Married women, spouse present	3.8	3.8	3.9	3.8	3.9	3.8	3.9	3.7	3.8	3.6	3.5	3.5	3.7
Women who maintain families	7.9	8.5	8.0	7.7	7.8	8.2	8.1	7.5	7.5	8.4	7.5	7.4	8.0
Full-time workers	4.9	5.0	4.9	5.0	4.9	5.0	5.0	5.0	4.9	4.9	5.1	4.9	4.8
Part-time workers	7.7	7.2	7.1	7.3	7.1	7.4	7.5	7.0	7.4	7.2	7.1	7.4	7.6
Unemployed 15 weeks and over ¹	1.0	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Labor force time lost ²	6.0	6.0	6.0	6.0	5.9	5.9	6.0	6.0	5.9	5.9	6.2	6.0	5.9
INDUSTRY													
Nonagricultural private wage and salary workers	5.3	5.4	5.4	5.4	5.3	5.4	5.4	5.5	5.5	5.5	5.7	5.5	5.3
Goods-producing industries	6.2	6.2	6.3	6.3	6.2	6.3	6.5	6.7	6.6	6.8	6.9	6.7	5.9
Mining	3.9	5.8	6.4	8.4	4.8	6.2	4.4	6.8	4.8	5.9	4.6	3.3	3.6
Construction	10.0	10.3	10.2	10.1	9.3	9.8	9.8	9.3	8.9	10.0	10.6	11.5	9.7
Manufacturing	5.1	5.1	5.2	5.2	5.4	5.4	5.6	5.9	5.9	5.5	5.9	5.4	4.9
Durable goods	4.6	4.7	4.9	4.9	5.2	5.4	5.4	5.8	5.5	5.3	5.7	5.5	4.9
Nondurable goods	5.8	5.6	5.7	5.5	5.6	5.3	5.9	5.9	6.4	5.9	6.3	5.2	5.0
Service-producing industries	4.9	5.0	4.9	5.0	4.9	5.0	4.9	5.0	5.0	5.0	5.1	5.0	5.0
Transportation and public utilities	4.1	4.1	3.7	4.5	3.9	3.6	3.4	4.3	4.0	3.4	4.3	3.2	3.0
Wholesale and retail trade	6.0	6.1	6.0	5.9	5.9	6.4	6.3	6.2	6.0	6.2	6.2	6.3	6.2
Finance and service industries	4.3	4.4	4.4	4.5	4.3	4.3	4.2	4.3	4.4	4.5	4.5	4.4	4.5
Government workers	2.9	2.8	2.7	2.8	2.7	2.7	2.6	2.4	2.5	2.3	2.1	2.5	2.9
Agricultural wage and salary workers	10.4	8.9	9.0	7.8	9.8	12.1	9.7	9.2	9.3	10.1	11.0	7.9	10.0

¹ Unemployment as a percent of the civilian labor force.

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

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Weeks of unemployment	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
DURATION													
Less than 5 weeks	3,279	3,156	3,125	3,169	3,166	3,258	3,302	3,119	3,159	3,194	3,204	3,026	3,046
5 to 14 weeks	2,006	1,965	2,002	2,030	1,995	1,991	2,013	2,012	2,079	2,044	2,175	2,236	2,049
15 weeks and over	1,295	1,461	1,338	1,359	1,378	1,422	1,362	1,430	1,369	1,333	1,386	1,374	1,406
15 to 26 weeks	684	838	759	769	743	765	730	777	731	702	697	764	763
27 weeks and over	611	623	579	590	635	657	632	653	638	631	688	610	643
Average (mean) duration, in weeks	11.2	11.9	11.4	11.5	11.7	11.6	11.5	12.1	11.7	12.0	12.1	11.6	12.0
Median duration, in weeks	5.4	5.4	5.0	5.0	5.0	4.8	4.8	5.1	5.4	5.1	5.0	5.4	5.1
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	49.8	47.9	48.3	48.3	48.4	48.8	49.5	47.5	47.8	48.6	47.4	45.6	46.9
5 to 14 weeks	30.5	29.9	31.0	31.0	30.5	29.8	30.1	30.7	31.5	31.1	32.2	33.7	31.5
15 weeks and over	19.7	22.2	20.7	20.7	21.1	21.3	20.4	21.8	20.7	20.3	20.5	20.7	21.6
15 to 26 weeks	10.4	12.7	11.7	11.7	11.4	11.5	10.9	11.8	11.1	10.7	10.3	11.5	11.7
27 weeks and over	9.3	9.5	9.0	9.0	9.7	9.8	9.5	9.9	9.7	9.6	10.2	9.2	9.9

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

(Numbers in thousands)

Reasons for unemployment	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
NUMBER OF UNEMPLOYED													
Job losers	2,820	2,916	2,964	2,932	2,979	3,092	3,097	3,183	3,103	3,038	3,147	3,171	3,151
On layoff	813	829	865	852	780	969	957	1,033	964	941	999	979	918
Other job losers	2,007	2,087	2,099	2,080	2,199	2,123	2,140	2,150	2,139	2,097	2,148	2,192	2,233
Job leavers	1,021	1,016	1,031	1,034	994	1,049	1,055	1,016	1,006	1,014	1,179	1,014	995
Reentrants	1,993	1,901	1,772	1,920	1,890	1,845	1,853	1,730	1,805	1,859	1,780	1,820	1,789
New entrants	726	723	643	648	685	695	686	640	680	644	617	683	534
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	43.0	44.5	46.2	44.9	45.5	46.3	46.3	48.5	47.1	46.3	46.8	47.4	48.7
On layoff	12.4	12.6	13.5	13.0	11.9	14.5	14.3	15.7	14.6	14.4	14.9	14.6	14.2
Other job losers	30.6	31.8	32.7	31.8	33.6	31.8	32.0	32.7	32.4	32.0	31.9	32.8	34.5
Job leavers	15.6	15.5	16.1	15.8	15.2	15.7	15.8	15.5	15.3	15.5	17.5	15.2	15.4
Reentrants	30.4	29.0	27.6	29.4	28.9	27.6	27.7	26.3	27.4	28.4	26.5	27.2	27.7
New entrants	11.1	11.0	10.0	9.9	10.5	10.4	10.3	9.7	10.3	9.8	9.2	10.2	8.3
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.3	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.5	2.4	2.5	2.5	2.5
Job leavers .....	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.9	.8	.8
Reentrants	1.6	1.5	1.4	1.5	1.5	1.5	1.5	1.4	1.4	1.5	1.4	1.5	1.4
New entrants .....	.6	.6	.5	.5	.6	.6	.6	.5	.5	.5	.5	.5	.4

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-42. Employment status of the noninstitutional population, including Armed forces stationed in the United States, by sex, seasonally adjusted

(Numbers in thousands)

Employment status and sex	1987			1988				1989				1990	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
TOTAL													
Noninstitutional population ¹	184,253	184,749	185,216	185,707	186,099	186,530	186,949	187,461	187,852	188,288	188,722	189,093	189,466
Labor force ¹	121,401	121,813	122,345	122,739	123,026	123,616	124,138	124,897	125,433	125,720	126,098	126,300	126,550
Percent of population ²	65.9	65.9	66.1	66.1	66.1	66.3	66.4	66.6	66.8	66.8	66.8	66.8	66.8
Total employed ¹	113,887	114,582	115,297	115,838	116,361	116,904	117,629	118,503	118,927	119,153	119,474	119,758	119,927
Employment-population ratio ³	61.8	62.0	62.3	62.4	62.5	62.7	62.9	63.2	63.3	63.3	63.3	63.3	63.3
Resident Armed Forces	1,726	1,733	1,749	1,740	1,710	1,690	1,696	1,688	1,674	1,685	1,704	1,681	1,642
Civilian employed	112,161	112,849	113,548	114,098	114,651	115,214	115,933	116,815	117,253	117,468	117,770	118,077	118,285
Agriculture	3,283	3,175	3,191	3,194	3,170	3,110	3,223	3,216	3,140	3,237	3,185	3,138	3,262
Nonagricultural industries	108,878	109,673	110,357	110,904	111,481	112,104	112,710	113,598	114,113	114,231	114,585	114,939	115,023
Unemployed	7,514	7,231	7,048	6,900	6,664	6,712	6,508	6,394	6,506	6,567	6,624	6,541	6,623
Unemployment rate ⁴	6.2	5.9	5.8	5.6	5.4	5.4	5.2	5.1	5.2	5.2	5.3	5.2	5.2
Not in labor force	62,852	62,936	62,870	62,969	63,074	62,914	62,811	62,564	62,419	62,567	62,624	62,793	62,916
Men													
Noninstitutional population ¹	88,358	88,605	88,843	89,100	89,293	89,509	89,715	89,973	90,166	90,385	90,606	90,823	91,014
Labor force ¹	67,695	67,809	68,035	68,170	68,425	68,639	68,666	69,023	69,326	69,376	69,653	69,630	69,705
Percent of population ²	76.6	76.5	76.6	76.5	76.6	76.7	76.5	76.7	76.9	76.8	76.9	76.7	76.6
Total employed ¹	63,478	63,816	64,227	64,435	64,785	64,964	65,109	65,546	65,839	65,846	66,067	66,087	66,034
Employment-population ratio ³	71.8	72.0	72.3	72.3	72.6	72.6	72.6	72.9	73.0	72.9	72.9	72.8	72.6
Resident Armed Forces	1,567	1,572	1,587	1,579	1,548	1,527	1,534	1,525	1,511	1,516	1,529	1,509	1,479
Civilian employed	61,911	62,244	62,639	62,855	63,236	63,437	63,575	64,022	64,328	64,330	64,538	64,578	64,555
Unemployed	4,218	3,993	3,808	3,736	3,640	3,675	3,557	3,477	3,486	3,530	3,586	3,544	3,671
Unemployment rate ⁴	6.2	5.9	5.6	5.5	5.3	5.4	5.2	5.0	5.0	5.1	5.1	5.1	5.3
Not in labor force	20,662	20,797	20,808	20,930	20,868	20,870	21,049	20,950	20,840	21,009	20,953	21,193	21,310
Women													
Noninstitutional population ¹	95,896	96,144	96,372	96,608	96,806	97,022	97,234	97,488	97,686	97,903	98,116	98,270	98,452
Labor force ¹	53,706	54,004	54,310	54,568	54,601	54,977	55,472	55,874	56,108	56,344	56,445	56,670	56,845
Percent of population ²	56.0	56.2	56.4	56.5	56.4	56.7	57.0	57.3	57.4	57.6	57.5	57.7	57.7
Total employed ¹	50,410	50,766	51,070	51,404	51,577	51,940	52,521	52,956	53,088	53,307	53,407	53,673	53,893
Employment-population ratio ³	52.6	52.8	53.0	53.2	53.3	53.5	54.0	54.3	54.3	54.4	54.4	54.6	54.7
Resident Armed Forces	160	161	161	161	162	163	162	163	163	169	175	173	163
Civilian employed	50,250	50,605	50,909	51,243	51,415	51,777	52,359	52,793	52,924	53,138	53,232	53,500	53,730
Unemployed	3,296	3,238	3,240	3,165	3,024	3,037	2,951	2,918	3,020	3,037	3,038	2,997	2,952
Unemployment rate ⁴	6.1	6.0	6.0	5.8	5.5	5.5	5.3	5.2	5.4	5.4	5.4	5.4	5.2
Not in labor force	42,190	42,140	42,062	42,040	42,205	42,045	41,762	41,614	41,579	41,559	41,670	41,600	41,607

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

² Labor force as a percent of the noninstitutional population.

³ Total employment as a percent of the noninstitutional population.

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

Armed Forces).

NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-42 through A-53 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, sex, and age	1987			1988				1989				1990	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
TOTAL													
Civilian noninstitutional population ¹	182,527	183,016	183,467	183,967	184,389	184,840	185,253	185,773	186,178	186,602	187,018	187,411	187,824
Civilian labor force	119,675	120,080	120,597	120,998	121,315	121,926	122,442	123,209	123,759	124,035	124,394	124,619	124,908
Percent of population	65.6	65.6	65.7	65.8	65.8	66.0	66.1	66.3	66.5	66.5	66.5	66.5	66.5
Employed	112,161	112,849	113,548	114,098	114,651	115,214	115,933	116,815	117,253	117,468	117,770	118,077	118,285
Employment-population ratio ²	61.4	61.7	61.9	62.0	62.2	62.3	62.6	62.9	63.0	63.0	63.0	63.0	63.0
Unemployed	7,514	7,231	7,048	6,900	6,664	6,712	6,508	6,394	6,506	6,567	6,624	6,541	6,623
Unemployment rate	6.3	6.0	5.8	5.7	5.5	5.5	5.3	5.2	5.3	5.3	5.3	5.2	5.3
Men, 20 years and over													
Civilian noninstitutional population ¹	79,466	79,678	79,898	80,194	80,418	80,676	80,925	81,251	81,510	81,741	81,976	82,264	82,581
Civilian labor force	62,056	62,112	62,310	62,463	62,714	62,880	63,019	63,382	63,682	63,741	63,985	64,081	64,309
Percent of population	78.1	78.0	78.0	77.9	78.0	77.9	78.0	78.1	78.1	78.0	78.1	77.9	77.9
Employed	58,584	58,830	59,209	59,409	59,726	59,909	60,094	60,582	60,854	60,835	61,071	61,139	61,249
Employment-population ratio ²	73.7	73.8	74.1	74.1	74.3	74.3	74.3	74.6	74.7	74.4	74.5	74.3	74.2
Agriculture	2,395	2,307	2,296	2,278	2,256	2,247	2,306	2,302	2,281	2,333	2,296	2,264	2,349
Nonagricultural industries	56,189	56,523	56,913	57,131	57,470	57,662	57,789	58,280	58,573	58,502	58,775	58,876	58,901
Unemployed	3,472	3,282	3,101	3,054	2,988	2,971	2,924	2,800	2,828	2,906	2,914	2,942	3,060
Unemployment rate	5.6	5.3	5.0	4.9	4.8	4.7	4.6	4.4	4.4	4.6	4.6	4.6	4.8
Not in labor force	17,410	17,566	17,588	17,731	17,704	17,796	17,906	17,869	17,828	18,000	17,991	18,183	18,272
Women, 20 years and over													
Civilian noninstitutional population ¹	88,468	88,701	88,925	89,183	89,397	89,664	89,883	90,155	90,425	90,685	90,952	91,162	91,413
Civilian labor force	49,677	49,951	50,229	50,506	50,593	50,908	51,471	51,884	52,116	52,365	52,469	52,767	53,091
Percent of population	56.2	56.3	56.5	56.6	56.6	56.8	57.3	57.6	57.7	57.7	57.7	57.9	58.1
Employed	46,985	47,297	47,621	47,941	48,124	48,427	49,044	49,480	49,632	49,892	49,962	50,295	50,637
Employment-population ratio ²	53.1	53.3	53.6	53.8	53.8	54.0	54.6	54.9	54.9	55.0	54.9	55.2	55.4
Agriculture	622	616	641	629	639	590	651	666	631	647	628	608	683
Nonagricultural industries	46,362	46,680	46,981	47,312	47,484	47,837	48,393	48,814	49,001	49,245	49,335	49,687	49,955
Unemployed	2,693	2,654	2,608	2,565	2,470	2,481	2,427	2,405	2,484	2,473	2,507	2,471	2,454
Unemployment rate	5.4	5.3	5.2	5.1	4.9	4.9	4.7	4.6	4.8	4.7	4.8	4.7	4.6
Not in labor force	38,791	38,750	38,696	38,677	38,804	38,756	38,412	38,271	38,309	38,320	38,483	38,395	38,322
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,593	14,638	14,644	14,590	14,574	14,500	14,445	14,367	14,243	14,177	14,090	13,985	13,830
Civilian labor force	7,941	8,016	8,057	8,030	8,008	8,138	7,952	7,943	7,961	7,929	7,939	7,771	7,508
Percent of population	54.4	54.8	55.0	55.0	54.9	56.1	55.0	55.3	55.9	55.9	56.3	55.6	54.3
Employed	6,592	6,722	6,718	6,748	6,801	6,878	6,795	6,753	6,767	6,741	6,736	6,643	6,398
Employment-population ratio ²	45.2	45.9	45.9	46.3	46.7	47.4	47.0	47.0	47.5	47.6	47.8	47.5	46.3
Agriculture	265	252	254	287	274	273	267	248	227	257	261	266	231
Nonagricultural industries	6,327	6,470	6,463	6,461	6,527	6,605	6,528	6,504	6,539	6,484	6,476	6,377	6,168
Unemployed	1,349	1,295	1,339	1,281	1,207	1,260	1,157	1,190	1,194	1,188	1,203	1,128	1,110
Unemployment rate	17.0	16.2	16.6	16.0	15.1	15.5	14.5	15.0	15.0	15.0	15.2	14.5	14.8
Not in labor force	6,652	6,622	6,587	6,560	6,566	6,362	6,493	6,424	6,282	6,248	6,151	6,214	6,322

¹ The population figures are not adjusted for seasonal variation.

population.

² Civilian employment as a percent of the civilian noninstitutional

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-44. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1987			1988				1989				1990	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
WHITE													
Civilian noninstitutional population ¹	156,806	157,145	157,448	157,772	158,048	158,347	158,611	158,944	159,198	159,473	159,738	160,007	160,269
Civilian labor force	103,193	103,417	103,805	104,207	104,517	104,946	105,344	105,895	106,278	106,421	106,783	107,008	107,253
Percent of population	65.8	65.8	65.9	66.0	66.1	66.3	66.4	66.6	66.8	66.7	66.8	66.9	66.9
Employed	97,613	98,105	98,600	99,135	99,653	99,946	100,526	101,246	101,505	101,603	101,962	102,132	102,284
Employment-population ratio ²	62.3	62.4	62.6	62.8	63.1	63.1	63.4	63.7	63.8	63.7	63.8	63.8	63.8
Unemployed	5,580	5,312	5,205	5,072	4,864	5,000	4,818	4,649	4,773	4,818	4,821	4,876	4,969
Unemployment rate	5.4	5.1	5.0	4.9	4.7	4.8	4.6	4.4	4.5	4.5	4.5	4.6	4.6
Men, 20 years and over													
Civilian labor force	54,193	54,227	54,394	54,490	54,664	54,853	54,928	55,228	55,399	55,457	55,683	55,804	55,892
Percent of population	78.4	78.3	78.3	78.2	78.3	78.4	78.3	78.5	78.5	78.4	78.5	78.4	78.3
Employed	51,542	51,735	52,013	52,182	52,430	52,568	52,694	53,134	53,286	53,264	53,515	53,567	53,551
Employment-population ratio ²	74.6	74.7	74.9	74.9	75.1	75.1	75.1	75.5	75.5	75.3	75.4	75.3	75.0
Unemployed	2,650	2,492	2,381	2,307	2,235	2,285	2,234	2,095	2,113	2,193	2,168	2,238	2,341
Unemployment rate	4.9	4.6	4.4	4.2	4.1	4.2	4.1	3.8	3.8	4.0	3.9	4.0	4.2
Women, 20 years and over													
Civilian labor force	42,098	42,331	42,492	42,759	42,906	43,107	43,546	43,816	44,039	44,204	44,345	44,538	44,906
Percent of population	55.6	55.8	55.8	56.1	56.2	56.3	56.8	57.0	57.1	57.2	57.3	57.4	57.8
Employed	40,178	40,459	40,638	40,941	41,182	41,325	41,817	42,131	42,249	42,269	42,555	42,755	43,118
Employment-population ratio ²	53.0	53.3	53.4	53.7	53.9	54.0	54.5	54.8	54.8	54.9	55.0	55.1	55.5
Unemployed	1,920	1,872	1,854	1,817	1,724	1,782	1,729	1,686	1,790	1,775	1,791	1,783	1,789
Unemployment rate	4.6	4.4	4.4	4.3	4.0	4.1	4.0	3.8	4.1	4.0	4.0	4.0	4.0
Both sexes, 16 to 19 years													
Civilian labor force	6,902	6,859	6,919	6,959	6,947	6,985	6,869	6,850	6,840	6,760	6,754	6,666	6,454
Percent of population	57.8	57.4	58.0	58.5	58.5	59.0	58.5	58.8	59.1	58.8	59.3	59.2	57.9
Employed	5,893	5,911	5,948	6,011	6,042	6,052	6,015	5,981	5,970	5,910	5,892	5,810	5,615
Employment-population ratio ²	49.3	49.4	49.9	50.6	50.9	51.1	51.2	51.3	51.6	51.4	51.8	51.6	50.4
Unemployed	1,009	948	971	948	905	933	854	869	869	850	862	856	839
Unemployment rate	14.6	13.8	14.0	13.6	13.0	13.4	12.4	12.7	12.7	12.6	12.8	12.8	13.0
Men	16.0	14.6	14.8	14.2	13.7	14.5	13.3	14.2	13.6	13.1	14.1	12.9	13.6
Women	13.1	13.0	13.2	13.0	12.3	12.2	11.5	11.0	11.7	12.0	11.4	12.8	12.3
BLACK													
Civilian noninstitutional population ¹	20,310	20,398	20,481	20,568	20,651	20,737	20,813	20,904	20,985	21,061	21,136	21,187	21,259
Civilian labor force	12,884	13,082	13,169	13,124	13,096	13,247	13,345	13,440	13,453	13,514	13,535	13,509	13,543
Percent of population	63.4	64.1	64.3	63.8	63.4	63.9	64.1	64.3	64.1	64.2	64.0	63.8	63.7
Employed	11,198	11,420	11,552	11,515	11,529	11,741	11,839	11,901	11,934	11,987	11,932	12,052	12,135
Employment-population ratio ²	55.1	56.0	56.4	56.0	55.8	56.6	56.9	56.9	56.9	56.9	56.5	56.9	57.1
Unemployed	1,686	1,663	1,618	1,610	1,567	1,506	1,505	1,539	1,519	1,527	1,603	1,457	1,408
Unemployment rate	13.1	12.7	12.3	12.3	12.0	11.4	11.3	11.5	11.3	11.3	11.8	10.8	10.4
Men, 20 years and over													
Civilian labor force	6,012	6,055	6,051	6,108	6,121	6,112	6,162	6,205	6,201	6,215	6,242	6,196	6,258
Percent of population	74.7	74.9	74.5	74.9	74.7	74.2	74.5	74.6	74.3	74.2	74.2	73.4	73.8
Employed	5,324	5,393	5,432	5,462	5,490	5,526	5,559	5,582	5,602	5,605	5,583	5,577	5,675
Employment-population ratio ²	66.2	66.7	66.9	66.9	67.0	67.1	67.2	67.2	67.1	66.9	66.3	66.1	66.9
Unemployed	688	662	619	646	631	586	603	623	599	610	659	619	583
Unemployment rate	11.4	10.9	10.2	10.6	10.3	9.6	9.8	10.0	9.7	9.8	10.6	10.0	9.3
Women, 20 years and over													
Civilian labor force	6,009	6,108	6,182	6,155	6,109	6,214	6,279	6,335	6,332	6,369	6,340	6,424	6,448
Percent of population	59.5	60.2	60.7	60.1	59.5	60.2	60.6	60.8	60.5	60.6	60.1	60.7	60.7
Employed	5,321	5,398	5,507	5,496	5,447	5,589	5,656	5,711	5,717	5,750	5,703	5,832	5,864
Employment-population ratio ²	52.7	53.2	54.0	53.7	53.0	54.2	54.6	54.8	54.7	54.7	54.1	55.1	55.2
Unemployed	688	710	675	659	662	625	623	624	615	619	637	592	584
Unemployment rate	11.4	11.6	10.9	10.7	10.8	10.1	9.9	9.8	9.7	9.7	10.0	9.2	9.1

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-44. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted—Continued

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1987			1988				1989				1990	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	863	919	936	862	866	921	903	900	920	929	953	889	837
Percent of population	40.0	42.4	43.1	39.6	39.7	42.2	41.4	41.4	42.3	42.6	43.9	41.0	38.9
Employed	553	629	612	557	593	626	624	607	615	632	646	644	596
Employment-population ratio ²	25.6	29.0	28.2	25.6	27.2	28.7	28.6	27.9	28.3	29.0	29.8	29.7	27.7
Unemployed	310	290	324	305	273	295	279	293	305	297	307	246	241
Unemployment rate	35.9	31.6	34.6	35.4	31.6	32.0	30.9	32.5	33.1	32.0	32.2	27.6	28.8
Men	35.9	33.0	33.4	37.1	30.5	32.1	32.0	32.4	34.6	29.0	31.5	29.3	31.7
Women	36.0	30.0	35.9	33.7	32.8	32.0	29.7	32.6	31.5	35.2	33.0	25.8	25.7
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	12,809	12,926	13,043	13,153	13,268	13,382	13,495	13,606	13,731	13,853	13,977	14,119	14,238
Civilian labor force	8,495	8,532	8,732	8,884	8,906	9,010	9,132	9,201	9,312	9,369	9,419	9,468	9,646
Percent of population	66.3	66.0	67.0	67.5	67.1	67.3	67.7	67.6	67.8	67.6	67.4	67.1	67.7
Employed	7,759	7,840	7,987	8,162	8,122	8,299	8,417	8,527	8,564	8,561	8,653	8,756	8,915
Employment-population ratio ²	60.6	60.7	61.2	62.1	61.2	62.0	62.4	62.7	62.4	61.8	61.9	62.0	62.6
Unemployed	736	692	745	722	784	711	714	674	748	807	767	713	731
Unemployment rate	8.7	8.1	8.5	8.1	8.8	7.9	7.8	7.3	8.0	8.6	8.1	7.5	7.6

¹ The population figures are not adjusted for seasonal variation.

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

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Full- and part- time status, sex, and age	1987			1988				1989				1990	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
EMPLOYED													
Full-time workers	92,595	93,338	93,917	94,484	95,092	95,352	95,905	96,674	97,132	97,530	97,987	98,180	98,373
Men, 16 years and over	55,528	55,891	56,202	56,437	56,838	56,917	57,081	57,518	57,799	58,022	58,142	58,105	58,072
Men, 20 years and over	54,250	54,493	54,790	55,002	55,376	55,449	55,593	56,088	56,312	56,468	56,647	56,693	56,670
Women, 16 years and over	37,047	37,461	37,723	38,005	38,275	38,469	38,843	39,108	39,333	39,576	39,868	39,997	40,304
Women, 20 years and over	35,986	36,342	36,599	36,905	37,188	37,336	37,761	38,060	38,257	38,509	38,776	38,975	39,261
Both sexes, 16 to 19 years	2,360	2,504	2,528	2,577	2,528	2,567	2,551	2,526	2,562	2,553	2,564	2,512	2,443
Part-time workers	19,574	19,493	19,660	19,627	19,512	19,833	20,056	20,147	20,080	19,883	19,824	19,923	19,888
Men, 16 years and over	6,373	6,370	6,435	6,409	6,378	6,548	6,492	6,499	6,504	6,351	6,392	6,455	6,467
Men, 20 years and over	4,343	4,358	4,397	4,408	4,346	4,490	4,476	4,493	4,533	4,384	4,405	4,471	4,571
Women, 16 years and over	13,202	13,149	13,203	13,213	13,140	13,307	13,530	13,654	13,588	13,570	13,382	13,479	13,430
Women, 20 years and over	10,997	10,930	11,056	11,027	10,932	11,058	11,322	11,410	11,370	11,348	11,231	11,319	11,371
Both sexes, 16 to 19 years	4,234	4,205	4,207	4,192	4,235	4,286	4,258	4,245	4,177	4,152	4,189	4,133	3,946
UNEMPLOYED													
Looking for full-time work	6,077	5,808	5,630	5,516	5,321	5,356	5,220	5,112	5,182	5,259	5,277	5,241	5,290
Men, 16 years and over	3,627	3,418	3,260	3,152	3,116	3,135	3,053	2,908	2,964	3,024	3,050	3,049	3,144
Men, 20 years and over	3,244	3,052	2,903	2,843	2,773	2,772	2,712	2,598	2,606	2,703	2,682	2,734	2,814
Women, 16 years and over	2,461	2,385	2,388	2,323	2,222	2,222	2,194	2,142	2,239	2,237	2,248	2,163	2,155
Women, 20 years and over	2,182	2,119	2,094	2,054	1,976	1,976	1,938	1,918	1,980	1,976	1,979	1,942	1,944
Both sexes, 16 to 19 years	651	637	634	618	572	608	570	596	596	579	616	565	531
Looking for part-time work	1,420	1,422	1,418	1,392	1,332	1,362	1,280	1,287	1,319	1,313	1,336	1,301	1,332
Men, 16 years and over	588	574	556	559	527	554	516	522	529	519	544	480	523
Men, 20 years and over	216	228	197	223	204	197	209	215	213	201	225	220	236
Women, 16 years and over	831	845	866	837	806	806	770	767	787	794	795	825	802
Women, 20 years and over	504	531	520	512	489	506	489	486	502	497	527	528	512
Both sexes, 16 to 19 years	700	663	701	658	638	659	582	587	604	616	583	553	584

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

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Category	1987			1988				1989				1990	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
CHARACTERISTIC													
Total	112,161	112,849	113,548	114,098	114,651	115,214	115,933	116,815	117,253	117,468	117,770	118,077	118,285
Married men, spouse present	40,065	40,342	40,678	40,395	40,403	40,552	40,550	40,883	40,938	40,813	40,922	41,106	40,722
Married women, spouse present	28,190	28,222	28,266	28,567	28,637	28,815	29,030	29,474	29,557	29,428	29,669	29,740	29,881
Women who maintain families	6,019	6,108	6,169	6,152	6,082	6,234	6,368	6,348	6,339	6,415	6,351	6,295	6,397
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,660	1,625	1,614	1,622	1,630	1,578	1,666	1,654	1,611	1,696	1,681	1,611	1,678
Self-employed workers	1,452	1,405	1,431	1,419	1,379	1,390	1,407	1,403	1,401	1,419	1,383	1,395	1,479
Unpaid family workers	163	148	155	134	156	146	156	153	126	131	124	114	107
Nonagricultural industries:													
Wage and salary workers	100,427	101,192	101,833	102,378	102,509	103,326	103,872	104,714	105,214	105,382	105,702	105,964	106,033
Government	16,761	16,902	17,013	16,981	17,062	17,094	17,302	17,347	17,300	17,558	17,668	17,652	17,931
Private industries	83,666	84,290	84,821	85,397	85,447	86,232	86,570	87,368	87,915	87,824	88,034	88,312	88,102
Private households	1,212	1,180	1,224	1,154	1,133	1,128	1,201	1,156	1,123	1,102	1,038	1,020	985
Other industries	82,454	83,110	83,596	84,243	84,315	85,104	85,369	86,212	86,792	86,722	86,996	87,292	87,117
Self-employed workers	8,155	8,219	8,259	8,317	8,654	8,548	8,551	8,618	8,598	8,601	8,597	8,738	8,753
Unpaid family workers	265	270	249	238	285	243	272	302	274	266	265	277	246
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,331	5,354	5,421	5,352	5,120	5,211	5,125	5,016	4,966	4,813	4,791	4,958	4,905
Slack work	2,337	2,380	2,372	2,429	2,290	2,340	2,333	2,308	2,325	2,301	2,296	2,395	2,448
Could only find part-time work	2,657	2,643	2,678	2,588	2,456	2,485	2,405	2,357	2,317	2,158	2,117	2,197	2,138
Voluntary part time	14,585	14,424	14,574	14,607	14,780	15,053	15,355	15,349	15,407	15,544	15,337	15,258	15,303
Nonagricultural industries:													
Part time for economic reasons	5,043	5,082	5,134	5,110	4,869	5,000	4,857	4,758	4,745	4,585	4,544	4,726	4,677
Slack work	2,153	2,198	2,193	2,274	2,146	2,190	2,179	2,131	2,173	2,153	2,136	2,239	2,273
Could only find part-time work	2,564	2,578	2,585	2,497	2,358	2,441	2,318	2,283	2,251	2,092	2,056	2,132	2,080
Voluntary part time	14,084	13,971	14,113	14,147	14,306	14,627	14,893	14,909	14,989	15,095	14,908	14,804	14,832

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

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Sex and age	1987			1988				1989				1990	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over	112,161	112,849	113,548	114,098	114,651	115,214	115,933	116,815	117,253	117,468	117,770	118,077	118,285
16 to 24 years	20,123	20,219	20,124	20,164	20,047	20,088	19,918	19,860	19,843	19,694	19,422	19,338	19,085
16 to 19 years	6,592	6,722	6,718	6,748	6,801	6,878	6,795	6,753	6,767	6,741	6,736	6,643	6,398
16 to 17 years	2,695	2,806	2,742	2,732	2,732	2,692	2,691	2,604	2,594	2,537	2,587	2,524	2,382
18 to 19 years	3,898	3,900	3,983	4,014	4,071	4,176	4,106	4,157	4,164	4,206	4,148	4,123	4,008
20 to 24 years	13,531	13,497	13,407	13,416	13,245	13,209	13,123	13,107	13,076	12,953	12,686	12,696	12,687
25 years and over	92,017	92,659	93,415	93,927	94,575	95,169	96,018	96,929	97,382	97,827	98,354	98,690	99,193
25 to 54 years	77,558	78,163	78,749	79,330	79,995	80,591	81,245	82,052	82,464	83,013	83,530	83,828	84,255
55 years and over	14,458	14,529	14,658	14,575	14,573	14,601	14,767	14,857	14,911	14,843	14,817	14,847	14,920
Men, 16 years and over	61,911	62,244	62,639	62,855	63,236	63,437	63,575	64,022	64,328	64,330	64,538	64,578	64,555
16 to 24 years	10,386	10,479	10,409	10,405	10,446	10,448	10,348	10,347	10,328	10,212	10,154	10,091	9,964
16 to 19 years	3,327	3,413	3,430	3,446	3,510	3,528	3,480	3,439	3,474	3,495	3,467	3,438	3,306
16 to 17 years	1,371	1,412	1,398	1,411	1,406	1,401	1,391	1,318	1,319	1,313	1,331	1,310	1,220
18 to 19 years	1,951	1,983	2,045	2,036	2,099	2,117	2,102	2,135	2,142	2,181	2,142	2,132	2,070
20 to 24 years	7,059	7,066	6,979	6,959	6,935	6,920	6,867	6,908	6,854	6,717	6,687	6,652	6,659
25 years and over	51,510	51,781	52,230	52,443	52,773	53,014	53,229	53,660	53,986	54,149	54,386	54,452	54,579
25 to 54 years	42,979	43,283	43,625	43,935	44,248	44,508	44,752	45,107	45,384	45,669	45,938	45,975	46,082
55 years and over	8,520	8,508	8,609	8,510	8,503	8,516	8,483	8,559	8,575	8,495	8,454	8,491	8,473
Women, 16 years and over	50,250	50,605	50,909	51,243	51,415	51,777	52,359	52,793	52,924	53,133	53,232	53,500	53,730
16 to 24 years	9,737	9,739	9,715	9,759	9,601	9,639	9,570	9,513	9,515	9,482	9,268	9,248	9,121
16 to 19 years	3,265	3,308	3,288	3,302	3,291	3,350	3,313	3,313	3,292	3,245	3,270	3,204	3,093
16 to 17 years	1,324	1,394	1,344	1,321	1,326	1,291	1,300	1,286	1,276	1,223	1,256	1,214	1,162
18 to 19 years	1,948	1,917	1,938	1,977	1,972	2,058	2,004	2,022	2,022	2,025	2,005	1,991	1,938
20 to 24 years	6,472	6,431	6,428	6,457	6,310	6,289	6,255	6,199	6,222	6,236	5,999	6,043	6,028
25 years and over	40,507	40,878	41,185	41,484	41,802	42,154	42,789	43,269	43,396	43,678	43,968	44,239	44,613
25 to 54 years	34,579	34,880	35,124	35,395	35,747	36,083	36,493	36,945	37,080	37,349	37,592	37,853	38,173
55 years and over	5,938	6,020	6,049	6,065	6,070	6,086	6,284	6,298	6,336	6,345	6,363	6,356	6,447

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

(In thousands)

Sex and age	1987			1988				1989				1990	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over	7,514	7,231	7,048	6,900	6,664	6,712	6,508	6,394	6,506	6,567	6,624	6,541	6,623
16 to 24 years	2,850	2,715	2,624	2,604	2,468	2,479	2,393	2,390	2,388	2,427	2,443	2,289	2,315
16 to 19 years	1,349	1,295	1,339	1,281	1,207	1,260	1,157	1,190	1,194	1,188	1,203	1,128	1,110
16 to 17 years	673	603	649	591	562	606	531	536	517	536	547	488	519
18 to 19 years	686	687	686	689	655	649	621	650	688	648	652	636	603
20 to 24 years	1,501	1,420	1,284	1,322	1,261	1,219	1,236	1,200	1,194	1,240	1,240	1,161	1,205
25 years and over	4,636	4,514	4,423	4,318	4,172	4,225	4,123	4,027	4,091	4,124	4,191	4,273	4,286
25 to 54 years	4,147	4,013	3,925	3,841	3,718	3,750	3,678	3,585	3,638	3,632	3,695	3,763	3,849
55 years and over	507	486	487	486	470	456	433	447	471	473	485	522	467
Men, 16 years and over	4,218	3,993	3,808	3,736	3,640	3,675	3,557	3,477	3,486	3,530	3,586	3,544	3,671
16 to 24 years	1,557	1,462	1,393	1,399	1,321	1,352	1,296	1,309	1,284	1,318	1,363	1,243	1,279
16 to 19 years	746	711	707	682	652	704	633	677	658	624	672	602	611
16 to 17 years	372	330	350	315	298	328	303	297	301	295	313	247	276
18 to 19 years	379	375	356	370	357	370	330	382	359	325	360	356	337
20 to 24 years	811	751	686	717	669	648	663	632	626	694	691	640	668
25 years and over	2,639	2,526	2,418	2,358	2,297	2,312	2,271	2,192	2,173	2,196	2,237	2,326	2,363
25 to 54 years	2,321	2,206	2,120	2,064	2,009	2,015	1,993	1,933	1,905	1,886	1,934	2,032	2,085
55 years and over	326	305	292	307	292	279	274	267	274	294	299	307	294
Women, 16 years and over	3,296	3,238	3,240	3,165	3,024	3,037	2,951	2,918	3,020	3,037	3,038	2,997	2,952
16 to 24 years	1,294	1,253	1,231	1,205	1,147	1,127	1,098	1,082	1,104	1,108	1,079	1,046	1,036
16 to 19 years	603	584	632	600	554	556	524	513	536	564	531	526	498
16 to 17 years	301	273	299	276	264	278	229	240	217	241	234	241	244
18 to 19 years	307	312	330	319	297	280	291	268	329	324	291	279	266
20 to 24 years	690	669	599	605	592	570	574	569	568	546	548	520	537
25 years and over	1,997	1,989	2,005	1,960	1,875	1,913	1,852	1,835	1,918	1,928	1,955	1,947	1,924
25 to 54 years	1,825	1,807	1,805	1,777	1,710	1,735	1,685	1,652	1,733	1,747	1,760	1,731	1,764
55 years and over	181	181	195	179	178	176	159	180	197	175	186	215	174

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Civilian workers)

Sex and age	1987			1988				1989				1990	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over	6.3	6.0	5.8	5.7	5.5	5.5	5.3	5.2	5.3	5.3	5.3	5.2	5.3
16 to 24 years	12.4	11.8	11.5	11.4	11.0	11.0	10.7	10.7	10.7	11.0	11.2	10.6	10.8
16 to 19 years	17.0	16.2	16.6	16.0	15.1	15.5	14.5	15.0	15.0	15.0	15.2	14.5	14.8
16 to 17 years	20.0	17.7	19.1	17.8	17.1	18.4	16.5	17.1	16.6	17.5	17.5	16.2	17.9
18 to 19 years	15.0	15.0	14.7	14.6	13.9	13.5	13.1	13.5	14.2	13.4	13.6	13.4	13.1
20 to 24 years	10.0	9.5	8.7	9.0	8.7	8.4	8.6	8.4	8.4	8.7	8.9	8.4	8.7
25 years and over	4.8	4.6	4.5	4.4	4.2	4.3	4.1	4.0	4.0	4.0	4.1	4.2	4.1
25 to 54 years	5.1	4.9	4.7	4.6	4.4	4.4	4.3	4.2	4.2	4.2	4.2	4.3	4.4
55 years and over	3.4	3.2	3.2	3.2	3.1	3.0	2.9	2.9	3.1	3.1	3.2	3.4	3.0
Men, 16 years and over	6.4	6.0	5.7	5.6	5.4	5.5	5.3	5.2	5.1	5.2	5.3	5.2	5.4
16 to 24 years	13.0	12.2	11.8	11.9	11.2	11.5	11.1	11.2	11.1	11.4	11.8	11.0	11.4
16 to 19 years	18.3	17.2	17.1	16.5	15.7	16.6	15.4	16.4	15.9	15.1	16.2	14.9	15.6
16 to 17 years	21.3	18.9	20.0	18.2	17.5	19.0	17.9	18.4	18.6	18.3	19.0	15.8	18.4
18 to 19 years	16.3	15.9	14.8	15.4	14.5	14.9	13.6	15.2	14.4	13.0	14.4	14.3	14.0
20 to 24 years	10.3	9.6	8.9	9.3	8.8	8.6	8.8	8.4	8.4	9.4	9.4	8.8	9.1
25 years and over	4.9	4.7	4.4	4.3	4.2	4.2	4.1	3.9	3.9	3.9	4.0	4.1	4.1
25 to 54 years	5.1	4.8	4.6	4.5	4.3	4.3	4.3	4.1	4.0	4.0	4.0	4.2	4.3
55 years and over	3.7	3.5	3.3	3.5	3.3	3.2	3.1	3.0	3.1	3.3	3.4	3.5	3.3
Women, 16 years and over	6.2	6.0	6.0	5.8	5.6	5.5	5.3	5.2	5.4	5.4	5.4	5.3	5.2
16 to 24 years	11.7	11.4	11.2	11.0	10.7	10.5	10.3	10.2	10.4	10.5	10.4	10.2	10.2
16 to 19 years	15.6	15.0	16.1	15.4	14.4	14.2	13.7	13.4	14.0	14.8	14.0	14.1	13.9
16 to 17 years	18.5	16.4	18.2	17.3	16.6	17.7	15.0	15.7	14.5	16.5	15.7	16.6	17.3
18 to 19 years	13.6	14.0	14.5	13.9	13.1	12.0	12.7	11.7	14.0	13.8	12.7	12.3	12.1
20 to 24 years	9.6	9.4	8.5	8.6	8.6	8.3	8.4	8.4	8.4	8.0	8.4	7.9	8.2
25 years and over	4.7	4.6	4.6	4.5	4.3	4.3	4.1	4.1	4.2	4.2	4.3	4.2	4.1
25 to 54 years	5.0	4.9	4.9	4.8	4.6	4.6	4.4	4.3	4.5	4.5	4.5	4.4	4.4
55 years and over	3.0	2.9	3.1	2.9	2.8	2.8	2.5	2.8	3.0	2.7	2.8	3.3	2.6

A-50. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1987			1988				1989				1990	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
CHARACTERISTIC													
Total (all civilian workers)	6.3	6.0	5.8	5.7	5.5	5.5	5.3	5.2	5.3	5.3	5.3	5.2	5.3
Men, 20 years and over	5.6	5.3	5.0	4.9	4.8	4.7	4.6	4.4	4.4	4.6	4.6	4.6	4.8
Women, 20 years and over	5.4	5.3	5.2	5.1	4.9	4.9	4.7	4.6	4.8	4.7	4.8	4.7	4.6
Both sexes, 16 to 19 years	17.0	16.2	16.6	16.0	15.1	15.5	14.5	15.0	15.0	15.0	15.2	14.5	14.8
White	5.4	5.1	5.0	4.9	4.7	4.8	4.6	4.4	4.5	4.5	4.5	4.6	4.6
Black and other	11.7	11.4	11.0	11.0	10.6	10.0	9.9	10.2	9.8	9.8	10.3	9.6	9.3
Black	13.1	12.7	12.3	12.3	12.0	11.4	11.3	11.5	11.3	11.3	11.8	10.8	10.4
Hispanic origin	8.7	8.1	8.5	8.1	8.8	7.9	7.8	7.3	8.0	8.6	8.1	7.5	7.6
Married men, spouse present	4.1	3.8	3.5	3.4	3.2	3.2	3.1	3.0	3.0	3.1	3.0	3.2	3.3
Married women, spouse present	4.3	4.2	4.2	4.1	3.8	3.9	3.7	3.5	3.9	3.8	3.9	3.7	3.6
Women who maintain families	9.5	9.1	8.6	8.2	8.3	8.0	7.9	8.0	8.0	8.1	8.0	7.8	7.6
Full-time workers	5.9	5.6	5.5	5.3	5.1	5.1	5.0	4.9	4.9	5.0	5.0	4.9	5.0
Part-time workers	8.2	8.2	8.2	8.0	7.6	7.7	7.1	7.1	7.3	7.2	7.4	7.2	7.4
Unemployed 15 weeks and over ¹	1.7	1.6	1.5	1.4	1.3	1.3	1.2	1.1	1.1	1.1	1.1	1.1	1.1
Labor force time lost ²	7.2	6.9	6.7	6.6	6.3	6.4	6.2	6.0	6.0	6.0	5.9	5.9	6.0
INDUSTRY													
Nonagricultural private wage and salary workers	6.3	6.0	5.8	5.7	5.5	5.5	5.4	5.3	5.3	5.4	5.4	5.5	5.5
Goods-producing industries	7.5	7.0	6.6	6.8	6.4	6.5	6.4	6.1	6.0	6.3	6.3	6.6	6.5
Mining	11.1	8.2	7.5	7.8	8.4	7.1	8.1	6.9	4.8	6.8	5.2	5.9	3.8
Construction	12.0	11.4	10.9	11.2	10.6	10.1	10.4	10.0	9.8	10.2	9.6	9.4	10.6
Manufacturing	6.1	5.7	5.4	5.4	5.2	5.4	5.1	5.0	5.0	5.2	5.4	5.8	5.4
Durable goods	6.0	5.7	5.0	5.4	4.8	5.1	4.9	4.7	4.6	4.8	5.3	5.6	5.3
Nondurable goods	6.3	5.8	6.0	5.6	5.7	5.8	5.5	5.4	5.5	5.6	5.6	6.1	5.5
Service-producing industries	5.7	5.5	5.3	5.2	5.0	5.0	4.9	5.0	5.0	5.0	4.9	5.0	5.0
Transportation and public utilities	4.5	4.3	4.5	3.9	4.0	3.7	3.9	3.9	4.0	4.1	3.6	3.9	3.5
Wholesale and retail trade	7.1	6.7	6.4	6.5	6.1	6.2	6.0	5.9	5.8	6.0	6.2	6.1	6.2
Finance and service industries	4.9	4.9	4.7	4.6	4.5	4.4	4.4	4.4	4.5	4.4	4.3	4.4	4.5
Government workers	3.4	3.4	3.3	3.0	2.9	2.9	2.6	2.7	2.8	2.8	2.7	2.4	2.5
Agricultural wage and salary workers	8.9	10.2	11.3	11.1	10.6	11.2	9.5	9.2	10.0	8.6	10.6	9.6	9.6

¹ Unemployment as a percent of the civilian labor force.

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

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Weeks of unemployment	1987			1988				1989				1990	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
DURATION													
Less than 5 weeks	3,212	3,206	3,204	3,074	3,092	3,104	3,066	3,141	3,154	3,150	3,242	3,157	3,092
5 to 14 weeks	2,176	2,108	2,067	2,116	1,971	1,973	1,945	1,914	2,002	1,999	2,000	2,045	2,153
15 weeks and over	2,090	1,900	1,787	1,722	1,586	1,617	1,497	1,378	1,339	1,386	1,387	1,377	1,388
15 to 26 weeks	1,004	889	862	853	767	810	766	698	687	789	746	737	741
27 weeks and over	1,085	1,010	925	869	819	807	731	680	652	597	641	640	647
Average (mean) duration, in weeks	14.9	14.3	14.1	14.1	13.5	13.5	12.9	12.4	11.9	11.6	11.6	11.9	11.9
Median duration, in weeks	6.7	6.3	6.1	6.4	5.8	5.9	5.6	5.5	5.4	5.1	4.9	5.2	5.2
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	43.0	44.4	45.4	44.5	46.5	46.4	47.1	48.8	48.6	48.2	48.9	48.0	46.6
5 to 14 weeks	29.1	29.2	29.3	30.6	29.6	29.5	29.9	29.7	30.8	30.6	30.2	31.1	32.5
15 weeks and over	27.9	26.3	25.3	24.9	23.9	24.2	23.0	21.4	20.6	21.2	20.9	20.9	20.9
15 to 26 weeks	13.4	12.3	12.2	12.3	11.5	12.1	11.8	10.8	10.6	12.1	11.3	11.2	11.2
27 weeks and over	14.5	14.0	13.1	12.6	12.3	12.1	11.2	10.6	10.0	9.1	9.7	9.7	9.8

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

(Numbers in thousands)

Reasons for unemployment	1987			1988				1989				1990	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
NUMBER OF UNEMPLOYED													
Job losers	3,654	3,404	3,303	3,163	3,106	3,089	2,999	2,940	2,850	2,937	3,056	3,108	3,156
On layoff	947	875	898	876	838	860	826	801	817	849	902	979	965
Other job losers	2,707	2,529	2,405	2,287	2,268	2,229	2,173	2,139	2,033	2,089	2,154	2,129	2,191
Job leavers	953	990	951	1,024	960	963	985	952	1,036	1,027	1,033	1,012	1,063
Reentrants	1,985	1,915	1,925	1,890	1,768	1,817	1,760	1,789	1,909	1,864	1,863	1,798	1,796
New entrants	925	878	887	861	838	794	773	746	705	671	689	655	611
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	48.6	47.4	46.7	45.6	46.5	46.4	46.0	45.7	43.8	45.2	46.0	47.3	47.6
On layoff	12.6	12.2	12.7	12.6	12.6	12.9	12.7	12.5	12.6	13.1	13.6	14.9	14.6
Other job losers	36.0	35.2	34.0	33.0	34.0	33.5	33.3	33.3	31.3	32.1	32.4	32.4	33.1
Job leavers	12.7	13.8	13.5	14.8	14.4	14.4	15.1	14.8	15.9	15.8	15.6	15.4	16.0
Reentrants	26.4	26.6	27.2	27.2	26.5	27.3	27.0	27.8	29.4	28.7	28.1	27.4	27.1
New entrants	12.3	12.2	12.6	12.4	12.6	11.9	11.9	11.6	10.8	10.3	10.4	10.0	9.2
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.1	2.8	2.7	2.6	2.6	2.5	2.4	2.4	2.3	2.4	2.5	2.5	2.5
Job leavers .....	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.9
Reentrants	1.7	1.6	1.6	1.6	1.5	1.5	1.4	1.5	1.5	1.5	1.5	1.4	1.4
New entrants .....	.8	.7	.7	.7	.7	.7	.6	.6	.6	.5	.6	.5	.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Reason, sex, and race	1987			1988				1989				1990	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
TOTAL													
Total not in labor force	62,852	62,936	62,870	62,969	63,074	62,914	62,811	62,564	62,419	62,567	62,624	62,793	62,916
Do not want a job now	57,040	57,248	57,375	57,425	57,616	58,048	57,506	57,232	57,007	57,626	57,577	57,272	57,476
Current activity:													
Going to school	6,384	6,182	6,472	6,356	6,317	6,799	6,289	6,367	6,278	6,995	6,229	6,379	6,709
Ill, disabled	4,205	4,428	4,373	4,323	4,477	4,451	4,688	4,567	4,774	4,671	4,767	4,653	5,033
Keeping house	25,569	25,604	25,564	25,254	25,370	25,368	24,573	24,507	24,096	24,031	23,886	23,961	23,305
Retired	16,263	16,320	16,465	16,885	16,792	16,803	17,256	17,194	17,387	17,673	18,270	18,227	18,378
Other activity	4,619	4,715	4,502	4,607	4,660	4,627	4,700	4,597	4,472	4,256	4,425	4,052	4,051
Want a job now	5,900	5,753	5,466	5,492	5,340	5,230	5,439	5,303	5,323	5,463	5,176	5,452	5,615
Reason not looking:													
School attendance	1,497	1,488	1,363	1,337	1,301	1,349	1,408	1,291	1,286	1,447	1,246	1,406	1,440
Ill health, disability	890	838	880	834	815	796	782	887	932	888	907	920	922
Home responsibilities	1,331	1,268	1,233	1,190	1,215	1,129	1,140	1,176	1,154	1,175	1,251	1,164	1,262
Think cannot get a job	1,052	1,025	911	998	911	944	954	851	865	817	827	747	893
Job-market factors	706	656	573	677	603	606	587	563	523	518	563	488	537
Personal factors	346	369	338	320	308	338	367	289	343	299	263	259	356
Other reasons ¹	1,131	1,133	1,080	1,133	1,098	1,012	1,154	1,097	1,085	1,136	945	1,214	1,098
Men													
Total not in labor force	20,662	20,797	20,808	20,930	20,868	20,870	21,049	20,950	20,840	21,009	20,953	21,193	21,310
Do not want a job now	18,625	18,836	18,884	18,971	18,892	19,036	19,087	19,027	18,941	19,169	19,221	19,201	19,368
Want a job now	2,077	2,028	1,911	1,977	1,893	1,900	2,005	1,946	1,913	2,015	1,765	2,006	2,038
Reason not looking:													
School attendance	758	731	707	674	677	657	701	656	634	735	583	747	694
Ill health, disability	449	401	438	408	354	372	373	412	448	476	431	450	485
Think cannot get a job	432	451	365	439	407	455	455	405	401	349	377	315	366
Other reasons ¹	438	444	401	456	455	416	476	473	430	455	374	494	493
Women													
Total not in labor force	42,190	42,140	42,062	42,040	42,205	42,045	41,762	41,614	41,579	41,559	41,670	41,600	41,607
Do not want a job now	38,415	38,412	38,491	38,454	38,724	39,012	38,419	38,205	38,066	38,456	38,356	38,072	38,107
Want a job now	3,822	3,725	3,555	3,515	3,447	3,329	3,434	3,357	3,410	3,448	3,411	3,446	3,577
Reason not looking:													
School attendance	738	757	656	663	624	692	707	636	652	712	663	659	745
Ill health, disability	440	437	442	426	461	424	409	475	484	412	476	470	437
Home responsibilities	1,331	1,268	1,233	1,190	1,215	1,129	1,140	1,176	1,154	1,175	1,251	1,164	1,262
Think cannot get a job	620	574	546	559	505	488	500	447	464	468	450	432	527
Other reasons ¹	693	689	678	677	643	596	678	624	655	681	571	719	605
White													
Total not in labor force	53,613	53,728	53,643	53,565	53,531	53,401	53,267	53,049	52,920	53,052	52,955	52,999	53,016
Do not want a job now	49,327	49,490	49,567	49,538	49,697	49,719	49,349	49,263	49,109	49,310	49,286	48,997	49,033
Want a job now	4,334	4,284	4,046	4,029	3,846	3,695	3,872	3,850	3,769	3,785	3,659	4,030	3,966
Reason not looking:													
School attendance	1,108	1,046	974	968	910	893	926	901	893	983	831	988	951
Ill health, disability	665	655	698	614	608	569	550	672	643	599	634	683	649
Home responsibilities	939	957	898	859	832	815	824	805	815	801	899	849	922
Think cannot get a job	724	678	590	687	603	601	646	583	535	525	531	549	629
Other reasons ¹	899	947	886	901	893	817	925	889	883	878	764	960	814
Black													
Total not in labor force	7,426	7,316	7,312	7,444	7,555	7,490	7,468	7,464	7,532	7,547	7,601	7,678	7,716
Do not want a job now	6,137	6,108	6,073	6,124	6,319	6,267	6,154	6,145	6,275	6,032	6,281	6,401	6,411
Want a job now	1,320	1,188	1,228	1,308	1,275	1,211	1,297	1,309	1,314	1,558	1,295	1,291	1,370
Reason not looking:													
School attendance	326	317	342	343	326	312	385	332	315	427	343	351	416
Ill health, disability	192	157	175	206	187	215	210	207	243	288	265	239	232
Home responsibilities	316	276	302	303	319	262	280	338	269	354	313	288	268
Think cannot get a job	305	292	248	267	271	285	221	255	317	263	232	195	203
Other reasons ¹	181	147	161	189	171	137	200	177	169	226	142	218	251

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Reason and sex	Total		Age							
	|| 1989	|| 1990	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			|| 1989	|| 1990	|| 1989	|| 1990	|| 1989	|| 1990	|| 1989	|| 1990
TOTAL										
Total not in labor force	62,398	62,904	6,145	6,189	3,782	3,873	20,930	20,906	31,541	31,936
Do not want a job now	56,811	57,068	4,754	4,744	2,980	2,947	18,062	18,009	31,015	31,368
Current activity:										
Going to school	5,770	6,015	3,732	3,767	1,264	1,372	745	859	29	17
Ill, disabled	4,895	5,150	28	47	88	123	2,512	2,778	2,266	2,202
Keeping house	24,217	23,418	312	315	1,243	1,133	11,737	11,330	10,925	10,640
Retired	17,501	18,505	--	--	--	2	468	462	17,036	18,041
Other activity	4,428	3,979	682	615	385	316	2,600	2,581	759	468
Want a job now	5,584	5,836	1,392	1,445	801	926	2,866	2,897	524	569
Reason for not looking:										
School attendance	1,658	1,823	1,066	1,129	294	396	291	298	8	--
Ill health, disability	969	952	15	17	44	47	735	692	175	197
Home responsibility	1,120	1,226	58	59	187	234	823	883	51	50
Think cannot get a job	798	799	95	81	116	131	452	456	135	131
Job-market factors	488	494	52	37	70	86	316	334	49	37
Personal factors	310	305	42	44	46	45	135	122	86	94
Other reasons ¹	1,039	1,036	158	159	160	118	565	568	155	191
Men										
Total not in labor force	20,707	21,183	2,929	2,957	1,246	1,271	4,274	4,446	12,258	12,509
Do not want a job now	18,565	18,962	2,181	2,216	916	930	3,431	3,553	12,039	12,263
Current activity:										
Going to school	2,808	2,869	1,836	1,875	673	671	291	316	8	7
Ill, disabled	2,457	2,698	16	22	53	66	1,366	1,549	1,023	1,061
Keeping house	372	435	20	5	21	39	107	192	225	198
Retired	10,679	11,016	--	--	--	2	348	326	10,332	10,689
Other activity	2,248	1,945	309	314	169	152	1,319	1,170	451	308
Want a job now	2,141	2,221	749	740	330	341	845	893	220	246
Reason for not looking:										
School attendance	869	912	600	607	165	199	99	105	5	--
Ill health, disability	482	507	8	8	26	18	377	388	71	93
Think cannot get a job	374	342	56	42	73	71	196	188	51	41
Other reasons ¹	417	460	85	84	66	53	173	212	93	112
Women										
Total not in labor force	41,691	41,721	3,216	3,232	2,536	2,602	16,656	16,460	19,283	19,427
Do not want a job now	38,246	38,105	2,572	2,528	2,067	2,017	14,634	14,456	18,978	19,104
Current activity:										
Going to school	2,962	3,146	1,895	1,892	591	701	454	543	21	10
Ill, disabled	2,438	2,452	12	25	37	58	1,146	1,229	1,243	1,140
Keeping house	23,845	22,984	292	310	1,222	1,094	11,630	11,138	10,702	10,442
Retired	6,822	7,488	--	--	--	--	122	136	6,704	7,352
Other activity	2,179	2,034	373	301	217	164	1,282	1,410	308	160
Want a job now	3,442	3,616	643	704	471	585	2,022	2,004	305	323
Reason for not looking:										
School attendance	788	912	466	522	129	197	19	193	2	--
Ill health, disability	488	445	7	9	17	29	359	304	104	103
Home responsibility	1,120	1,226	58	59	187	234	823	883	51	50
Think cannot get a job	424	458	39	39	43	60	257	268	86	90
Other reasons ¹	622	576	73	76	95	65	392	356	62	79

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

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Reason, race, and Hispanic origin	Total		Age						Sex			
	II 1989	II 1990	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			II 1989	II 1990	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990
WHITE												
Total not in labor force	52,798	52,914	7,463	7,452	17,210	17,031	28,125	28,432	17,270	17,586	35,527	35,328
Do not want a job now	48,751	48,670	5,874	5,783	15,177	14,888	27,696	27,999	15,708	16,022	33,042	32,648
Current activity:												
Going to school	4,401	4,518	3,794	3,859	580	649	28	10	2,116	2,183	2,285	2,335
Ill, disabled	3,817	3,983	87	121	1,918	2,067	1,810	1,796	1,963	2,134	1,854	1,849
Keeping house	21,300	20,486	1,200	1,127	10,192	9,733	9,906	9,626	294	315	21,006	20,171
Retired	15,686	16,567	--	2	417	414	15,269	16,150	9,563	9,883	6,123	6,684
Other activity	3,546	3,116	793	675	2,070	2,025	683	417	1,772	1,507	1,774	1,609
Want a job now	4,048	4,208	1,588	1,659	2,030	2,105	427	444	1,562	1,565	2,485	2,643
Reason for not looking:												
School attendance	1,240	1,303	1,027	1,095	205	207	6	--	657	635	583	668
Ill health, disability	681	678	34	47	518	495	129	136	336	354	345	324
Home responsibility	787	887	151	192	596	659	40	36	--	--	787	887
Think cannot get a job	485	566	114	144	257	307	116	115	206	226	279	340
Other reasons ¹	854	774	262	180	454	437	136	157	363	351	491	424
BLACK												
Total not in labor force	7,569	7,764	1,929	2,060	2,819	2,884	2,821	2,820	2,726	2,839	4,843	4,926
Do not want a job now	6,266	6,410	1,417	1,452	2,112	2,247	2,740	2,711	2,242	2,302	4,026	4,108
Current activity:												
Going to school	925	1,044	876	933	50	108	--	3	448	469	477	575
Ill, disabled	967	1,048	30	46	520	629	417	372	450	490	518	558
Keeping house	2,173	2,131	295	252	1,058	1,077	820	802	58	112	2,116	2,019
Retired	1,493	1,541	--	--	42	37	1,452	1,504	917	880	576	660
Other activity	708	647	216	220	442	396	51	31	369	351	339	296
Want a job now	1,302	1,354	514	608	708	637	80	108	485	536	818	818
Reason for not looking:												
School attendance	340	435	269	359	69	75	2	--	167	215	173	219
Ill health, disability	254	243	25	17	193	171	36	55	126	138	128	105
Home responsibility	284	282	82	86	192	182	10	14	--	--	284	282
Think cannot get a job	274	175	90	60	171	101	13	14	145	86	130	89
Other reasons ¹	150	219	48	86	83	108	19	25	147	97	103	122
HISPANIC ORIGIN												
Total not in labor force	4,415	4,589	1,138	1,216	2,098	2,122	1,179	1,251	1,248	1,307	3,167	3,282
Do not want a job now	3,870	4,073	919	1,007	1,779	1,841	1,165	1,224	1,087	1,133	2,782	2,940
Current activity:												
Going to school	575	638	504	570	64	66	5	3	259	262	315	376
Ill, disabled	400	454	7	29	266	297	125	128	235	255	165	199
Keeping house	2,026	2,003	304	338	1,227	1,234	494	431	60	52	1,966	1,952
Retired	538	674	--	--	23	13	515	661	353	415	185	260
Other activity	331	303	104	70	199	231	26	2	180	149	151	154
Want a job now	545	607	217	228	318	357	13	22	162	181	385	426
Reason for not looking:												
School attendance	146	150	118	121	28	30	--	--	80	66	67	85
Ill health, disability	54	68	10	10	32	55	13	3	26	38	28	30
Home responsibility	142	172	27	30	116	141	--	--	--	--	142	172
Think cannot get a job	93	120	41	33	52	76	--	12	24	35	69	85
Other reasons ¹	110	97	21	35	90	55	--	7	32	43	79	54

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

sum to totals because data for the other races are not presented and Hispanics are included in both the white and black population groups.

NOTE: Detail for the above race and Hispanic-origin groups will not

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Reason and sex	2nd Quarter 1990							
	Total	Age				Race and Hispanic origin		
		16 to 19 years	20 to 24 years	25 to 59 years	60 years and over	White	Black	Hispanic origin
TOTAL								
Personal factors:								
Employers think too young or old	104	7	6	6	85	89	14	8
Lacks education or training	132	24	27	73	8	76	41	22
Other personal handicap	69	13	12	43	2	58	8	14
Job-market factors:								
Could not find work	275	28	48	187	12	176	72	52
Thinks no job available	219	9	38	147	25	166	40	24
Men								
Personal factors:								
Employers think too young or old	37	5	--	2	30	33	3	--
Lacks education or training	51	13	16	20	2	23	21	8
Other personal handicap	24	2	7	15	--	24	--	5
Job-market factors:								
Could not find work	134	19	25	86	4	78	40	16
Thinks no job available	96	3	22	66	5	68	21	5
Women								
Personal factors:								
Employers think too young or old	67	2	6	5	55	56	11	8
Lacks education or training	81	11	11	53	5	53	19	14
Other personal handicap	45	11	5	28	2	35	8	8
Job-market factors:								
Could not find work	141	9	23	101	8	98	33	36
Thinks no job available	123	6	16	81	20	98	18	20

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Work-seeking intentions, work history, and sex	Total		Age						Race			
	|| 1989	|| 1990	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			|| 1989	|| 1990	|| 1989	|| 1990	|| 1989	|| 1990	|| 1989	|| 1990	|| 1989	|| 1990
TOTAL												
Do not intend to seek work	54,078	53,985	5,901	5,655	17,177	16,895	31,000	31,435	46,439	46,079	5,974	6,073
Intend to seek work in the next 12 months	8,319	8,919	4,025	4,407	3,752	4,010	541	502	6,358	6,800	1,596	1,691
Never worked	1,447	1,634	1,242	1,448	195	181	9	6	960	1,119	377	409
Last worked over 5 years ago	1,081	1,053	65	45	834	823	182	185	767	758	287	254
Last worked 1 to 5 years ago	1,851	1,881	508	524	1,176	1,230	166	127	1,408	1,455	358	344
Worked during the previous 12 months	3,940	4,352	2,209	2,390	1,547	1,777	184	184	3,222	3,468	574	683
Men												
Do not intend to seek work	17,620	17,836	2,278	2,148	3,311	3,381	12,030	12,307	14,907	15,106	2,133	2,152
Intend to seek work in the next 12 months	3,086	3,347	1,896	2,080	962	1,064	228	202	2,363	2,481	593	686
Never worked	658	770	623	743	34	27	1	--	428	522	192	206
Last worked over 5 years ago	219	203	18	2	140	132	61	69	142	115	71	76
Last worked 1 to 5 years ago	585	555	183	177	314	344	89	33	443	421	106	104
Worked during the previous 12 months	1,624	1,819	1,070	1,157	475	561	78	100	1,349	1,422	224	299
Women												
Do not intend to seek work	36,458	36,149	3,621	3,507	13,865	13,514	18,970	19,128	31,532	30,973	3,840	3,921
Intend to seek work in the next 12 months	5,233	5,572	2,131	2,327	2,790	2,946	313	299	3,995	4,319	1,003	1,004
Never worked	788	864	619	704	162	154	9	6	532	596	185	203
Last worked over 5 years ago	862	850	48	43	694	691	121	116	625	642	216	178
Last worked 1 to 5 years ago	1,266	1,326	326	347	863	885	78	94	965	1,035	251	240
Worked during the previous 12 months	2,316	2,533	1,139	1,233	1,073	1,216	105	84	1,873	2,046	350	384

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, sex, and age	Total		White		Black		Hispanic origin	
	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990
TOTAL								
Civilian noninstitutional population	186,178	187,824	159,198	160,269	20,985	21,259	13,731	14,238
Civilian labor force	123,780	124,921	106,401	107,354	13,415	13,495	9,316	9,649
Percent of population	66.5	66.5	66.8	67.0	63.9	63.5	67.8	67.8
Employed	117,368	118,414	101,741	102,518	11,868	12,061	8,571	8,918
Agriculture	3,298	3,423	3,102	3,215	147	140	409	474
Nonagricultural industries	114,070	114,991	98,639	99,303	11,721	11,921	8,161	8,444
Unemployed	6,412	6,507	4,660	4,837	1,547	1,434	745	731
Unemployment rate	5.2	5.2	4.4	4.5	11.5	10.6	8.0	7.6
Not in labor force	62,398	62,904	52,798	52,914	7,569	7,764	4,415	4,589
Men, 16 years and over								
Civilian noninstitutional population	88,655	89,536	76,395	77,005	9,423	9,548	6,794	7,057
Civilian labor force	67,948	68,353	59,124	59,419	6,696	6,709	5,546	5,750
Percent of population	76.6	76.3	77.4	77.2	71.1	70.3	81.6	81.5
Employed	64,538	64,775	56,613	56,724	5,908	5,964	5,159	5,332
Agriculture	2,602	2,659	2,441	2,489	122	116	373	399
Nonagricultural industries	61,936	62,116	54,172	54,234	5,785	5,848	4,786	4,933
Unemployed	3,411	3,578	2,511	2,695	789	744	387	418
Unemployment rate	5.0	5.2	4.2	4.5	11.8	11.1	7.0	7.3
Not in labor force	20,707	21,183	17,270	17,586	2,726	2,839	1,248	1,307
Men, 20 years and over								
Civilian noninstitutional population	81,510	82,581	70,560	71,386	8,351	8,485	6,094	6,338
Civilian labor force	63,732	64,355	55,486	55,970	6,209	6,265	5,143	5,338
Percent of population	78.2	77.9	78.6	78.4	74.4	73.8	84.4	84.2
Employed	61,006	61,415	53,474	53,748	5,595	5,668	4,841	5,001
Agriculture	2,367	2,436	2,216	2,275	114	110	346	379
Nonagricultural industries	58,639	58,979	51,259	51,473	5,481	5,557	4,495	4,621
Unemployed	2,726	2,940	2,011	2,222	615	598	302	337
Unemployment rate	4.3	4.6	3.6	4.0	9.9	9.5	5.9	6.3
Not in labor force	17,778	18,226	15,074	15,416	2,141	2,219	951	1,000
Women, 16 years and over								
Civilian noninstitutional population	97,523	98,289	82,804	83,264	11,562	11,712	6,937	7,181
Civilian labor force	55,832	56,568	47,277	47,935	6,719	6,786	3,770	3,899
Percent of population	57.2	57.6	57.1	57.6	58.1	57.9	54.3	54.3
Employed	52,831	53,638	45,128	45,794	5,960	6,097	3,412	3,586
Agriculture	696	764	661	725	25	24	36	75
Nonagricultural industries	52,135	52,874	44,467	45,068	5,936	6,073	3,376	3,512
Unemployed	3,001	2,930	2,149	2,141	758	690	358	313
Unemployment rate	5.4	5.2	4.5	4.5	11.3	10.2	9.5	8.0
Not in labor force	41,691	41,721	35,527	35,328	4,843	4,926	3,167	3,282
Women, 20 years and over								
Civilian noninstitutional population	90,425	91,413	77,060	77,743	10,460	10,624	6,250	6,487
Civilian labor force	51,951	52,924	43,947	44,805	6,270	6,379	3,490	3,638
Percent of population	57.5	57.9	57.0	57.6	59.9	60.0	55.8	56.1
Employed	49,551	50,557	42,227	43,088	5,670	5,811	3,198	3,386
Agriculture	651	703	616	665	24	24	32	67
Nonagricultural industries	48,900	49,854	41,611	42,424	5,646	5,787	3,165	3,319
Unemployed	2,400	2,367	1,720	1,717	600	568	292	252
Unemployment rate	4.6	4.5	3.9	3.8	9.6	8.9	8.4	6.9
Not in labor force	38,475	38,489	33,114	32,937	4,190	4,245	2,760	2,849
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,243	13,830	11,578	11,140	2,174	2,150	1,387	1,413
Civilian labor force	8,098	7,641	6,968	6,579	936	851	683	672
Percent of population	56.9	55.3	60.2	59.1	43.1	39.6	49.2	47.6
Employed	6,812	6,441	6,040	5,681	603	583	531	531
Agriculture	281	284	270	275	9	6	31	27
Nonagricultural industries	6,531	6,158	5,770	5,406	593	576	501	504
Unemployed	1,286	1,200	929	898	333	268	151	141
Unemployment rate	15.9	15.7	13.3	13.6	35.6	31.5	22.2	21.0
Not in labor force	6,145	6,189	4,610	4,561	1,238	1,299	704	740

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, sex, and age	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990
TOTAL								
Civilian noninstitutional population	13,731	14,238	8,170	8,768	1,524	1,479	912	860
Civilian labor force	9,316	9,649	5,674	6,066	876	821	593	573
Percent of population	67.8	67.8	69.4	69.2	57.5	55.5	65.0	66.6
Employed	8,571	8,918	5,193	5,597	799	752	560	535
Agriculture	409	474	365	431	6	11	6	6
Nonagricultural industries	8,161	8,444	4,828	5,166	793	741	553	530
Unemployed	745	731	482	469	77	70	33	38
Unemployment rate	8.0	7.6	8.5	7.7	8.8	8.5	5.6	6.6
Not in labor force	4,415	4,589	2,496	2,702	648	657	319	287
Men, 16 years and over								
Civilian noninstitutional population	6,794	7,057	4,178	4,492	678	653	430	418
Civilian labor force	5,546	5,750	3,460	3,710	514	472	344	317
Percent of population	81.6	81.5	82.8	82.6	75.8	72.3	80.0	75.9
Employed	5,159	5,332	3,206	3,449	475	434	324	293
Agriculture	373	399	332	368	5	7	6	3
Nonagricultural industries	4,786	4,933	2,874	3,081	470	426	318	289
Unemployed	387	418	254	261	39	38	19	25
Unemployment rate	7.0	7.3	7.3	7.0	7.6	8.1	5.7	7.8
Not in labor force	1,248	1,307	718	782	164	181	86	101
Men, 20 years and over								
Civilian noninstitutional population	6,094	6,338	3,697	4,013	599	591	409	398
Civilian labor force	5,143	5,338	3,161	3,417	483	446	334	309
Percent of population	84.4	84.2	85.5	85.1	80.6	75.5	81.7	77.6
Employed	4,841	5,001	2,978	3,213	452	413	314	285
Agriculture	346	379	312	350	5	7	5	3
Nonagricultural industries	4,495	4,621	2,667	2,863	447	406	309	282
Unemployed	302	337	183	203	31	33	19	24
Unemployment rate	5.9	6.3	5.8	5.9	6.4	7.5	5.8	7.8
Not in labor force	951	1,000	536	596	116	145	75	89
Women, 16 years and over								
Civilian noninstitutional population	6,937	7,181	3,992	4,276	846	826	482	442
Civilian labor force	3,770	3,899	2,215	2,356	362	349	249	256
Percent of population	54.3	54.3	55.5	55.1	42.8	42.3	51.7	57.9
Employed	3,412	3,586	1,987	2,147	324	318	236	243
Agriculture	36	75	33	63	1	4	1	2
Nonagricultural industries	3,376	3,512	1,954	2,085	323	314	235	240
Unemployed	358	313	228	208	38	31	14	13
Unemployment rate	9.5	8.0	10.3	8.8	10.5	8.9	5.5	5.2
Not in labor force	3,167	3,282	1,778	1,920	484	477	232	186
Women, 20 years and over								
Civilian noninstitutional population	6,250	6,487	3,535	3,788	769	756	456	418
Civilian labor force	3,490	3,638	2,008	2,159	336	330	242	244
Percent of population	55.8	56.1	56.8	57.0	43.7	43.6	53.1	58.3
Employed	3,198	3,386	1,830	2,006	303	300	230	231
Agriculture	32	67	30	56	--	3	1	2
Nonagricultural industries	3,165	3,319	1,800	1,949	303	297	229	229
Unemployed	292	252	178	154	33	30	13	12
Unemployment rate	8.4	6.9	8.9	7.1	9.8	9.1	5.3	5.1
Not in labor force	2,760	2,849	1,527	1,628	433	426	213	174
Both sexes, 16 to 19 years								
Civilian noninstitutional population	1,387	1,413	938	968	156	132	47	43
Civilian labor force	683	672	506	490	57	46	17	20
Percent of population	49.2	47.6	53.9	50.6	36.5	34.5	36.2	46.5
Employed	531	531	385	378	44	40	16	19
Agriculture	31	27	23	24	1	2	--	--
Nonagricultural industries	501	504	362	354	43	38	15	19
Unemployed	151	141	120	112	13	6	1	2
Unemployment rate	22.2	21.0	23.8	22.9	--	13.3	6.2	7.7
Not in labor force	704	740	433	478	99	86	30	23

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Category	Total		White		Black		Hispanic origin	
	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990
CHARACTERISTIC								
Total (all civilian workers)	117,368	118,414	101,741	102,518	11,868	12,061	8,571	8,918
Men	64,538	64,775	56,613	56,724	5,908	5,964	5,159	5,332
Women	52,831	53,638	45,128	45,794	5,960	6,097	3,412	3,586
OCCUPATION								
Managerial and professional specialty	30,422	30,539	27,497	27,553	1,861	1,872	1,182	1,134
Executive, administrative, and managerial	14,906	14,798	13,644	13,536	804	816	625	616
Professional specialty	15,515	15,741	13,853	14,017	1,057	1,056	557	519
Technical, sales, and administrative support	36,095	36,952	31,560	32,343	3,333	3,431	2,027	2,190
Technicians and related support	3,654	3,932	3,132	3,374	344	361	158	176
Sales occupations	14,038	14,225	12,717	12,916	898	894	700	763
Administrative support, including clerical	18,403	18,795	15,711	16,053	2,092	2,176	1,169	1,251
Service occupations	15,442	15,775	12,189	12,427	2,694	2,746	1,669	1,758
Private household	887	761	632	528	229	208	135	139
Protective service	1,926	1,955	1,575	1,576	322	335	103	106
Service, except private household and protective	12,629	13,059	9,981	10,323	2,143	2,204	1,431	1,513
Precision production, craft, and repair	13,768	13,720	12,351	12,268	1,078	1,105	1,146	1,166
Mechanics and repairers	4,593	4,414	4,152	3,923	343	387	297	303
Construction trades	5,091	5,281	4,609	4,789	393	403	431	457
Other precision production, craft, and repair	4,084	4,025	3,590	3,556	342	316	417	405
Operators, fabricators, and laborers	18,047	17,733	14,816	14,511	2,691	2,698	2,074	2,153
Machine operators, assemblers, and inspectors	8,266	8,067	6,752	6,584	1,198	1,182	1,189	1,115
Transportation and material moving occupations	4,852	4,793	4,059	3,947	701	745	325	401
Handlers, equipment cleaners, helpers, and laborers	4,929	4,873	4,005	3,979	792	770	560	637
Construction laborers	787	818	645	684	125	115	114	142
Other handlers, equipment cleaners, helpers, and laborers	4,142	4,055	3,361	3,295	667	655	446	495
Farming, forestry, and fishing	3,595	3,695	3,327	3,416	210	210	472	517
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,715	1,784	1,570	1,624	122	112	368	417
Self-employed workers	1,433	1,513	1,383	1,468	25	26	41	56
Unpaid family workers	150	126	149	123	-	2	-	-
Nonagricultural industries:								
Wage and salary workers	105,179	105,966	90,418	91,021	11,342	11,497	7,627	7,971
Government	17,218	17,836	13,973	14,556	2,624	2,688	922	1,019
Private industries	87,962	88,131	76,444	76,465	8,718	8,809	6,705	6,952
Private households	1,157	1,015	829	726	298	254	155	171
Other industries	86,805	87,116	75,616	75,739	8,420	8,556	6,550	6,782
Self-employed workers	8,603	8,764	7,957	8,059	373	416	518	463
Unpaid family workers	289	260	264	223	6	9	16	10
FULL- AND PART-TIME STATUS¹								
Full-time schedules	95,579	96,757	82,636	83,465	9,833	10,099	7,156	7,520
Part time for economic reasons	4,940	4,886	3,961	4,001	833	734	609	587
Part time for noneconomic reasons	16,849	16,771	15,144	15,052	1,203	1,228	806	811

¹ Employed persons with a job but not at work are distributed according to whether they usually work full or part time.
NOTE: Detail for the above race and Hispanic-origin groups will not

sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Category	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990
CHARACTERISTIC								
Total (all civilian workers)	8,571	8,918	5,193	5,597	799	752	560	535
Men	5,159	5,332	3,206	3,449	475	434	324	293
Women	3,412	3,586	1,987	2,147	324	318	236	243
OCCUPATION								
Managerial and professional specialty	1,182	1,134	551	567	129	130	155	134
Executive, administrative, and managerial	625	616	283	334	72	61	102	78
Professional specialty	557	519	268	232	58	69	53	56
Technical, sales, and administrative support	2,027	2,190	1,098	1,292	242	237	189	180
Technicians and related support	158	176	84	107	22	20	11	10
Sales occupations	700	763	391	446	52	63	70	71
Administrative support, including clerical	1,169	1,251	623	739	168	153	108	99
Service occupations	1,669	1,758	964	1,048	144	129	76	83
Private household	135	139	54	70	4	6	4	3
Protective service	103	106	60	55	24	23	8	7
Service, except private household and protective	1,431	1,513	851	923	116	100	63	72
Precision production, craft, and repair	1,146	1,166	775	784	94	90	56	52
Mechanics and repairers	297	303	181	188	32	32	12	18
Construction trades	431	457	304	331	33	22	27	14
Other precision production, craft, and repair	417	405	290	266	29	37	17	20
Operators, fabricators, and laborers	2,074	2,153	1,397	1,446	180	152	79	81
Machine operators, assemblers, and inspectors	1,189	1,115	807	738	111	83	36	35
Transportation and material moving occupations	325	401	190	252	28	40	21	18
Handlers, equipment cleaners, helpers, and laborers	560	637	400	456	41	29	22	29
Construction laborers	114	142	86	111	5	2	6	4
Other handlers, equipment cleaners, helpers, and laborers	446	495	314	346	35	27	16	25
Farming, forestry, and fishing	472	517	409	460	10	13	6	5
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	368	417	331	379	6	10	5	5
Self-employed workers	41	56	34	52	-	1	2	1
Unpaid family workers	-	-	-	-	-	-	-	-
Nonagricultural industries:								
Wage and salary workers	7,627	7,971	4,567	4,918	766	717	486	481
Government	922	1,019	562	661	128	117	56	56
Private industries	6,705	6,952	4,004	4,257	638	599	430	425
Private households	155	171	66	93	4	7	5	3
Other industries	6,550	6,782	3,938	4,164	634	592	425	422
Self-employed workers	518	463	252	242	26	24	67	47
Unpaid family workers	16	10	10	6	2	-	-	1
FULL- AND PART-TIME STATUS²								
Full-time schedules	7,156	7,520	4,236	4,678	716	657	493	457
Part time for economic reasons	609	587	446	434	19	24	23	22
Part time for noneconomic reasons	806	811	512	484	65	71	44	56

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

² Employed persons with a job but not at work are distributed according to whether they usually work full or part time.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Sex and age	Total		White		Black		Hispanic origin	
	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990
Total, 16 years and over	117,368	118,414	101,741	102,518	11,868	12,061	8,571	8,918
16 to 19 years	6,812	6,441	6,040	5,681	603	583	531	531
16 to 17 years	2,594	2,380	2,309	2,137	207	179	165	168
18 to 19 years	4,218	4,062	3,730	3,545	396	404	366	363
20 to 24 years	13,091	12,706	11,201	10,937	1,465	1,349	1,363	1,361
25 years and over	97,465	99,266	84,500	85,900	9,800	10,129	6,677	7,026
25 to 54 years	82,532	84,326	71,126	72,569	8,605	8,864	5,962	6,332
55 years and over	14,933	14,940	13,373	13,331	1,195	1,266	714	694
Men, 16 years and over	64,538	64,775	56,613	56,724	5,908	5,964	5,159	5,332
16 to 19 years	3,532	3,361	3,139	2,976	313	297	317	331
16 to 17 years	1,356	1,257	1,216	1,137	107	91	100	99
18 to 19 years	2,175	2,104	1,923	1,839	205	206	218	232
20 to 24 years	6,913	6,721	5,934	5,809	748	681	825	849
25 years and over	54,093	54,693	47,540	47,939	4,846	4,987	4,017	4,152
25 to 54 years	45,473	46,174	39,749	40,245	4,218	4,351	3,591	3,754
55 years and over	8,620	8,520	7,791	7,694	628	636	426	398
Women, 16 years and over	52,831	53,638	45,128	45,794	5,960	6,097	3,412	3,586
16 to 19 years	3,280	3,081	2,901	2,706	290	286	214	200
16 to 17 years	1,237	1,123	1,093	1,000	99	88	65	70
18 to 19 years	2,043	1,958	1,807	1,706	191	198	149	130
20 to 24 years	6,179	5,985	5,267	5,128	716	669	538	512
25 years and over	43,372	44,573	36,960	37,960	4,954	5,142	2,659	2,874
25 to 54 years	37,059	38,152	31,377	32,324	4,387	4,512	2,371	2,579
55 years and over	6,313	6,420	5,582	5,636	567	630	288	295

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

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

(Civilian workers)

Sex and age	Total		White		Black		Hispanic origin	
	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990
Total, 16 years and over	5.2	5.2	4.4	4.5	11.5	10.6	8.0	7.6
16 to 19 years	15.9	15.7	13.3	13.6	35.6	31.5	22.2	21.0
16 to 17 years	18.2	19.5	16.1	16.8	37.4	42.0	27.9	26.5
18 to 19 years	14.4	13.3	11.5	11.6	34.6	25.6	19.3	18.2
20 to 24 years	8.6	8.8	7.1	7.3	18.5	19.7	9.4	8.2
25 years and over	3.8	3.9	3.3	3.5	8.3	7.6	6.4	6.2
25 to 54 years	4.0	4.1	3.4	3.6	8.7	8.0	6.4	6.3
55 years and over	3.0	2.9	2.6	2.8	5.3	4.5	5.9	5.5
Men, 16 years and over	5.0	5.2	4.2	4.5	11.8	11.1	7.0	7.3
16 to 19 years	16.2	15.9	13.7	13.7	35.8	33.0	21.2	19.7
16 to 17 years	19.3	19.2	17.0	16.2	39.2	44.3	27.5	25.9
18 to 19 years	14.2	13.8	11.5	12.1	33.9	26.5	18.0	16.8
20 to 24 years	8.4	9.1	7.0	7.5	17.7	20.4	7.6	7.4
25 years and over	3.7	4.0	3.2	3.5	8.6	7.8	5.5	6.1
25 to 54 years	3.9	4.1	3.3	3.6	9.0	8.3	5.4	6.1
55 years and over	3.0	3.2	2.6	3.1	5.8	4.8	6.8	6.1
Women, 16 years and over	5.4	5.2	4.5	4.5	11.3	10.2	9.5	8.0
16 to 19 years	15.5	15.4	12.9	13.6	35.4	29.9	23.5	23.1
16 to 17 years	17.0	19.8	15.1	17.6	35.2	39.4	28.5	27.5
18 to 19 years	14.6	12.7	11.5	11.0	35.5	24.6	21.0	20.5
20 to 24 years	8.8	8.5	7.1	7.0	19.2	18.9	11.9	9.6
25 years and over	4.0	3.9	3.4	3.4	8.0	7.4	7.6	6.4
25 to 54 years	4.2	4.1	3.6	3.6	8.4	7.8	8.0	6.6
55 years and over	2.9	2.5	2.7	2.4	4.7	4.2	4.6	4.7

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Weeks of unemployment	Total		White		Black		Hispanic origin	
	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990
DURATION								
Total, 16 years and over	6,412	6,507	4,660	4,837	1,547	1,434	745	731
Less than 5 weeks	3,230	3,148	2,363	2,333	776	706	403	354
5 to 14 weeks	1,738	1,868	1,275	1,392	399	406	211	241
15 weeks and over	1,443	1,490	1,022	1,112	372	322	130	136
15 to 26 weeks	771	826	576	640	172	157	73	87
27 weeks and over	672	665	446	472	200	166	58	48
Average (mean) duration, in weeks	12.1	12.1	11.8	11.9	13.0	12.7	10.5	10.1
Median duration, in weeks	5.0	4.9	4.9	4.9	5.0	4.7	4.6	4.8
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	50.4	48.4	50.7	48.2	50.1	49.2	54.1	48.5
5 to 14 weeks	27.1	28.7	27.4	28.8	25.8	28.3	28.3	32.9
15 weeks and over	22.5	22.9	21.9	23.0	24.1	22.5	17.5	18.6
15 to 26 weeks	12.0	12.7	12.4	13.2	11.1	10.9	9.8	12.0
27 weeks and over	10.5	10.2	9.6	9.8	12.9	11.6	7.7	6.6

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

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

(Numbers in thousands)

Reasons for unemployment	Total		White		Black		Hispanic origin	
	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990
NUMBER OF UNEMPLOYED								
Total, 16 years and over	6,412	6,507	4,660	4,837	1,547	1,434	745	731
Job losers	2,718	3,001	2,028	2,308	610	588	355	386
On layoff	716	844	602	687	100	133	71	87
Other job losers	2,002	2,158	1,426	1,621	511	455	284	299
Job leavers	934	958	728	736	168	186	93	79
Reentrants	1,932	1,815	1,377	1,311	490	441	199	173
New entrants	828	732	527	482	278	218	97	92
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	42.4	46.1	43.5	47.7	39.5	41.0	47.7	52.9
On layoff	11.2	13.0	12.9	14.2	6.4	9.3	9.5	11.9
Other job losers	31.2	33.2	30.6	33.5	33.0	31.7	38.1	41.0
Job leavers	14.6	14.7	15.6	15.2	10.9	13.0	12.5	10.9
Reentrants	30.1	27.9	29.5	27.1	31.7	30.8	26.8	23.6
New entrants	12.9	11.2	11.3	10.0	18.0	15.2	13.1	12.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	2.2	2.4	1.9	2.1	4.5	4.4	3.8	4.0
Job leavers .....	.8	.8	.7	.7	1.3	1.4	1.0	.8
Reentrants	1.6	1.5	1.3	1.2	3.7	3.3	2.1	1.8
New entrants .....	.7	.6	.5	.4	2.1	1.6	1.0	1.0

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	II 1989	II 1990	Total		Employed		Unemployed			
			II 1989	II 1990	II 1989	II 1990	Number		Percent of labor force	
							II 1989	I 1990	II 1989	II 1990
VIETNAM-ERA VETERANS										
Total, 35 years and over	7,417	7,621	6,777	6,937	6,568	6,702	209	235	3.1	3.4
35 to 49 years	6,458	6,523	6,141	6,151	5,949	5,936	192	215	3.1	3.5
35 to 39 years	1,796	1,447	1,694	1,347	1,620	1,286	74	61	4.4	4.5
40 to 44 years	3,259	3,325	3,118	3,175	3,037	3,074	81	102	2.6	3.2
45 to 49 years	1,402	1,751	1,328	1,629	1,291	1,577	37	52	2.8	3.2
50 years and over	958	1,098	636	786	618	766	17	20	2.7	2.6
NONVETERANS										
Total, 35 to 49 years	16,076	17,138	15,000	16,026	14,491	15,425	509	601	3.4	3.7
35 to 39 years	7,355	7,681	6,961	7,496	6,710	7,233	251	264	3.6	3.5
40 to 44 years	4,649	5,043	4,332	4,694	4,186	4,522	144	172	3.3	3.7
45 to 49 years	4,072	4,215	3,707	3,836	3,593	3,671	114	165	3.1	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 35 to 49 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

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

(Numbers in thousands)

Employment status and age	Veterans						Nonveterans					
	White		Black		Hispanic origin		White		Black		Hispanic origin	
	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990	II 1989	II 1990
Total, 35 to 49 years												
Civilian noninstitutional population	5,778	5,878	579	545	246	226	13,768	14,566	1,622	1,749	1,489	1,575
Civilian labor force	5,514	5,573	532	485	226	204	12,974	13,769	1,403	1,508	1,342	1,416
Employed	5,358	5,394	497	454	213	193	12,595	13,316	1,294	1,401	1,260	1,325
Unemployed	156	179	34	31	13	11	379	453	109	107	82	91
Unemployment rate	2.8	3.2	6.4	6.4	5.8	5.4	2.9	3.3	7.8	7.1	6.1	6.4
35 to 39 years												
Civilian noninstitutional population	1,572	1,250	184	166	68	66	6,329	6,794	731	750	605	664
Civilian labor force	1,492	1,178	165	141	64	59	6,035	6,531	655	661	546	619
Employed	1,438	1,130	145	132	61	58	5,847	6,332	604	609	512	580
Unemployed	54	48	19	9	3	1	188	199	51	52	35	38
Unemployment rate	3.6	4.1	11.7	6.7	4.5	(¹)	3.1	3.0	7.9	7.8	6.3	6.2
40 to 44 years												
Civilian noninstitutional population	2,941	3,033	282	248	127	105	3,991	4,251	457	549	467	479
Civilian labor force	2,817	2,908	266	225	111	97	3,763	3,995	394	472	433	432
Employed	2,744	2,825	258	208	106	87	3,650	3,864	367	447	411	408
Unemployed	72	83	8	18	5	10	113	131	27	25	22	24
Unemployment rate	2.6	2.9	3.1	7.9	4.2	10.4	3.0	3.3	6.8	5.3	5.2	5.6
45 to 49 years												
Civilian noninstitutional population	1,266	1,595	51	131	51	55	3,448	3,521	433	450	417	433
Civilian labor force	1,205	1,488	101	119	51	49	3,177	3,243	354	375	362	366
Employed	1,175	1,440	94	115	46	49	3,099	3,120	323	344	337	338
Unemployed	30	48	7	4	5	—	78	123	31	30	25	28
Unemployment rate	2.5	3.2	6.9	3.4	(¹)	(¹)	2.5	3.8	8.8	8.1	6.9	7.6

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

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 35 to 49 years of age, the group that most closely corresponds

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Type of family, race, and Hispanic origin	II 1989					II 1990				
	Total families	With unemployment:				Total families	With unemployment:			
		Total	Percent of families:				Total	Percent of families:		
			With no employed person in family	With at least one employed person in family	With at least one person in family employed full time			With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL										
Total families	64,995	4,926	27.3	72.7	64.2	65,363	4,765	27.2	72.8	65.6
With children under 18 years of age	31,248	2,817	30.7	69.3	61.9	31,812	2,681	30.9	69.1	61.8
Married-couple families	51,305	3,374	17.3	82.7	74.4	51,288	3,243	17.1	82.9	75.1
With children under 18 years of age	23,752	1,938	17.4	82.6	75.2	23,893	1,857	16.4	83.6	75.5
Families maintained by women	10,801	1,278	50.4	49.6	40.5	11,051	1,229	51.9	48.1	41.7
With children under 18 years of age	6,378	770	60.3	39.7	32.2	6,702	737	65.1	34.9	29.2
Families maintained by men	2,889	274	42.3	57.7	50.0	3,024	294	34.7	65.3	59.9
With children under 18 years of age	1,119	108	58.3	41.7	34.3	1,217	87	52.3	47.7	44.2
White										
Total families	55,725	3,639	23.8	76.2	68.3	55,939	3,570	23.6	76.4	68.5
With children under 18 years of age	25,979	2,065	25.9	74.1	66.9	26,369	1,984	26.3	73.7	65.3
Married-couple families	46,150	2,757	17.4	82.6	75.0	46,144	2,691	16.9	83.1	75.0
With children under 18 years of age	20,978	1,581	17.3	82.7	75.6	21,086	1,526	16.2	83.8	75.0
Families maintained by women	7,336	699	45.7	54.3	44.8	7,403	675	47.9	52.1	44.1
With children under 18 years of age	4,139	411	55.5	44.5	37.0	4,302	395	61.5	38.5	31.4
Families maintained by men	2,238	183	36.6	63.4	55.7	2,392	204	31.4	68.6	63.7
With children under 18 years of age	862	73	46.6	53.4	46.6	981	63	52.4	47.6	42.9
Black										
Total families	7,291	1,127	38.7	61.3	51.3	7,396	1,022	40.6	59.4	54.6
With children under 18 years of age	4,132	664	45.6	54.4	46.1	4,245	597	47.4	52.6	48.6
Married-couple families	3,609	497	16.7	83.3	71.7	3,572	424	19.3	80.7	75.7
With children under 18 years of age	1,838	287	17.1	82.9	74.1	1,838	251	17.5	82.5	78.5
Families maintained by women	3,166	554	56.3	43.7	34.7	3,307	520	57.5	42.5	37.7
With children under 18 years of age	2,072	347	66.0	34.0	26.5	2,209	327	70.0	30.0	26.0
Families maintained by men	517	76	53.9	46.1	38.2	517	77	44.2	55.8	50.6
With children under 18 years of age	222	30	(¹)	(¹)	(¹)	198	19	(¹)	(¹)	(¹)
Hispanic origin										
Total families	4,717	578	30.3	69.7	64.0	4,836	564	28.0	72.0	63.3
With children under 18 years of age	2,958	394	32.2	67.8	63.2	3,093	384	31.3	68.8	58.6
Married-couple families	3,308	416	20.9	79.1	74.3	3,252	361	19.7	80.3	70.4
With children under 18 years of age	2,124	296	22.0	78.0	73.6	2,137	263	19.8	80.2	68.8
Families maintained by women	1,036	124	58.9	41.1	33.9	1,154	151	46.7	53.3	46.0
With children under 18 years of age	713	86	64.0	36.0	32.6	808	107	56.1	43.9	35.5
Families maintained by men	373	38	(¹)	(¹)	(¹)	429	52	(¹)	(¹)	(¹)
With children under 18 years of age	121	12	(¹)	(¹)	(¹)	148	14	(¹)	(¹)	(¹)

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

NOTE: Detail for the above race and Hispanic-origin groups will not

sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Family relationship, race, and Hispanic origin	II 1989			II 1990				
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL								
Total unemployed in families ¹	5,267	29.7	70.3	61.9	5,257	28.6	71.4	64.2
Husbands	1,088	37.2	62.8	48.9	1,195	33.4	66.6	53.4
With children under 18 years of age	636	43.7	56.3	42.5	722	36.7	63.3	47.7
Wives	998	15.2	84.8	78.0	942	15.8	84.2	79.7
With children under 18 years of age	592	14.0	86.0	79.9	581	13.7	86.3	82.0
Relatives in married-couple families	1,496	9.7	90.3	85.2	1,417	8.7	91.3	86.5
Women who maintain families	534	82.2	17.8	10.6	514	85.7	14.3	10.0
With children under 18 years of age	441	89.7	10.3	4.5	440	93.3	6.7	4.0
Relatives in families maintained by women	862	32.8	67.2	56.8	865	32.0	68.0	60.0
Men who maintain families	114	74.3	25.7	19.9	115	50.8	49.2	43.9
With children under 18 years of age	59	(²)	(²)	(²)	46	(²)	(²)	(²)
Relatives in families maintained by men	176	31.5	68.5	61.9	209	26.5	73.5	68.0
White								
Total unemployed in families ¹	3,780	26.3	73.7	65.7	3,880	25.2	74.8	66.9
Husbands	885	38.7	61.3	48.1	1,002	33.1	66.9	52.1
With children under 18 years of age	508	44.8	55.2	41.3	598	36.6	63.4	45.7
Wives	830	14.5	85.5	79.0	801	15.1	84.9	80.7
With children under 18 years of age	485	13.2	86.8	81.1	482	12.9	87.1	83.4
Relatives in married-couple families	1,164	9.1	90.9	86.4	1,126	8.6	91.4	86.7
Women who maintain families	289	75.5	24.5	14.7	277	81.2	18.8	13.4
With children under 18 years of age	227	85.9	14.1	6.1	229	91.6	8.4	5.3
Relatives in families maintained by women	429	29.4	70.6	61.3	453	29.3	70.7	61.1
Men who maintain families	65	71.5	28.5	19.5	83	47.2	52.8	48.4
With children under 18 years of age	32	(²)	(²)	(²)	32	(²)	(²)	(²)
Relatives in families maintained by men	119	27.7	72.3	67.1	138	24.2	75.8	70.1
Black								
Total unemployed in families ¹	1,314	39.5	60.5	51.1	1,179	40.4	59.6	54.6
Husbands	156	30.0	70.0	52.8	140	36.0	64.0	59.6
With children under 18 years of age	98	40.1	59.9	46.8	94	35.7	64.3	58.8
Wives	128	21.0	79.0	68.8	107	21.6	78.4	73.2
With children under 18 years of age	87	19.4	80.6	71.8	74	18.6	81.4	77.0
Relatives in married-couple families	293	11.9	88.1	81.3	233	9.9	90.1	85.1
Women who maintain families	233	90.4	9.6	5.3	227	91.6	8.4	5.5
With children under 18 years of age	206	93.8	6.2	2.8	203	95.8	4.2	2.1
Relatives in families maintained by women	420	36.4	63.6	52.2	387	34.9	65.1	58.5
Men who maintain families	41	(²)	(²)	(²)	24	(²)	(²)	(²)
With children under 18 years of age	23	(²)	(²)	(²)	11	(²)	(²)	(²)
Relatives in families maintained by men	42	(²)	(²)	(²)	61	34.2	65.8	60.5
Hispanic origin								
Total unemployed in families ¹	617	32.1	67.9	62.2	610	28.3	71.7	62.4
Husbands	124	51.1	48.9	43.3	157	37.0	63.0	49.5
With children under 18 years of age	86	59.2	40.8	34.3	122	38.6	61.4	46.0
Wives	139	13.4	86.6	78.8	105	10.8	89.2	82.9
With children under 18 years of age	99	17.7	82.3	76.0	77	11.3	88.7	81.8
Relatives in married-couple families	186	9.8	90.2	85.0	134	6.7	93.3	82.3
Women who maintain families	59	(²)	(²)	(²)	58	(²)	(²)	(²)
With children under 18 years of age	50	(²)	(²)	(²)	53	(²)	(²)	(²)
Relatives in families maintained by women	68	38.1	61.9	56.6	97	26.9	73.1	63.0
Men who maintain families	20	(²)	(²)	(²)	24	(²)	(²)	(²)
With children under 18 years of age	5	(²)	(²)	(²)	9	(²)	(²)	(²)
Relatives in families maintained by men	20	(²)	(²)	(²)	34	(²)	(²)	(²)

¹ Excludes persons living alone or with nonrelatives, persons in families where the husband, wife or, other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies. Estimates for husbands, wives, and women who maintain families are somewhat different from marital status estimates shown in other tables in this publication because of differences in definitions and weighting patterns

used in aggregating the data.

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Family relationship, race, and Hispanic origin	II 1989				II 1990			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed person in family	With another employed person in family	With another person in family employed full time		With no other employed person in family	With another employed person in family	With another person in family employed full time
TOTAL								
Total employed in families ¹	94,730	21.7	78.3	67.2	94,724	21.9	78.1	67.9
Husbands	39,255	28.3	71.7	53.5	38,849	27.6	72.4	55.1
With children under 18 years of age	22,067	30.4	69.6	48.1	22,109	30.3	69.7	49.1
Wives	28,643	8.1	91.9	87.1	29,035	8.7	91.3	87.4
With children under 18 years of age	15,043	4.2	95.8	92.1	15,386	5.0	95.0	92.2
Relatives in married-couple families	12,046	6.4	93.6	90.0	11,755	7.1	92.9	89.4
Women who maintain families	6,221	61.9	38.1	25.0	6,361	64.1	35.9	24.9
With children under 18 years of age	3,981	78.6	21.4	9.6	4,156	81.1	18.9	9.9
Relatives in families maintained by women	4,718	23.7	76.3	66.9	4,738	23.2	76.8	68.7
Men who maintain families	2,103	51.3	48.7	37.9	2,255	55.0	45.0	36.7
With children under 18 years of age	952	78.2	21.8	12.0	1,070	83.3	16.7	9.6
Relatives in families maintained by men	1,744	15.7	84.3	77.0	1,729	15.9	84.1	80.2
White								
Total employed in families ¹	82,443	20.9	79.1	67.6	82,392	21.2	78.8	68.2
Husbands	35,366	28.7	71.3	52.5	34,996	27.9	72.1	54.0
With children under 18 years of age	19,649	30.9	69.1	46.4	19,653	30.9	69.1	47.2
Wives	25,423	7.7	92.3	87.6	25,898	8.4	91.6	87.8
With children under 18 years of age	13,149	3.7	96.3	92.7	13,477	4.6	95.4	92.7
Relatives in married-couple families	10,650	6.2	93.8	90.3	10,334	7.0	93.0	89.5
Women who maintain families	4,418	58.8	41.2	27.0	4,468	62.3	37.7	26.0
With children under 18 years of age	2,770	77.0	23.0	9.8	2,893	80.4	19.6	10.0
Relatives in families maintained by women	3,537	23.8	76.2	67.1	3,418	24.0	76.0	67.7
Men who maintain families	1,696	50.4	49.6	38.4	1,861	53.4	46.6	37.8
With children under 18 years of age	760	77.4	22.6	12.4	885	81.9	18.1	10.4
Relatives in families maintained by men	1,353	14.1	85.9	79.7	1,417	13.9	86.1	82.5
Black								
Total employed in families ¹	9,115	28.9	71.1	62.1	9,142	28.9	71.1	64.1
Husbands	2,651	22.9	77.1	64.9	2,610	21.8	78.2	68.3
With children under 18 years of age	1,605	23.1	76.9	65.0	1,603	21.8	78.2	68.9
Wives	2,197	12.5	87.5	81.9	2,192	12.5	87.5	83.5
With children under 18 years of age	1,272	8.5	91.5	87.2	1,318	8.7	91.3	88.5
Relatives in married-couple families	959	9.4	90.6	86.1	964	8.5	91.5	88.0
Women who maintain families	1,644	70.5	29.5	19.6	1,713	70.1	29.9	21.1
With children under 18 years of age	1,117	82.9	17.1	8.9	1,166	83.0	17.0	9.5
Relatives in families maintained by women	1,056	23.1	76.9	66.4	1,127	22.1	77.9	70.7
Men who maintain families	319	58.8	41.2	31.7	314	66.2	33.8	29.4
With children under 18 years of age	170	82.1	17.9	8.4	154	91.3	8.7	4.9
Relatives in families maintained by men	291	24.3	75.7	65.2	222	28.5	71.5	66.1
Hispanic origin								
Total employed in families ¹	7,084	23.3	76.7	67.2	7,190	23.2	76.8	69.5
Husbands	2,735	35.7	64.3	50.7	2,601	32.8	67.2	56.0
With children under 18 years of age	1,904	37.8	62.2	47.5	1,883	35.0	65.0	52.5
Wives	1,747	7.1	92.9	86.9	1,739	9.8	90.2	86.3
With children under 18 years of age	1,116	5.0	95.0	88.4	1,168	8.1	91.9	88.1
Relatives in married-couple families	1,042	5.2	94.8	89.9	1,127	5.5	94.5	90.7
Women who maintain families	512	56.1	43.9	31.9	565	60.2	39.8	32.2
With children under 18 years of age	341	69.5	30.5	19.9	395	74.8	25.2	19.6
Relatives in families maintained by women	451	16.1	83.9	74.9	464	18.9	81.1	71.7
Men who maintain families	286	38.0	62.0	56.3	334	37.6	62.4	57.0
With children under 18 years of age	100	71.0	29.0	21.8	124	69.6	30.4	22.9
Relatives in families maintained by men	312	9.1	90.9	83.4	359	7.9	92.1	87.7

¹ Excludes persons living alone or with nonrelatives, persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies. Estimates for husbands, wives, and women who maintain families are somewhat different from marital status estimates shown in other tables in this publication because of differences in definitions and weighting patterns

used in aggregating the data.

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Type of family, number of earners, race, and Hispanic origin	Number of families		Median weekly earnings	
	|| 1989	|| 1990	|| 1989	|| 1990
TOTAL				
Total families with earners ¹	43,198	43,589	\$622	\$653
Married-couple families	34,052	34,285	698	727
One earner	12,175	12,058	419	454
Husband	9,293	8,866	492	516
Wife	2,180	2,424	244	269
Other family member	703	768	234	276
Two or more earners	21,876	22,227	850	871
Husband and wife	19,501	19,792	866	890
Husband and other family member(s)	1,736	1,762	781	815
Wife and other family member(s)	505	522	557	530
Other family members only	135	151	501	465
Families maintained by women	7,039	7,003	340	361
One earner	4,794	4,762	269	286
Householder	3,796	3,789	279	296
Other family member	998	973	231	237
Two or more earners	2,245	2,241	570	613
Families maintained by men	2,107	2,300	491	513
One earner	1,192	1,392	342	393
Two or more earners	916	909	720	788
White				
Total families with earners ¹	36,640	37,182	647	680
Married-couple families	30,095	30,430	708	738
One earner	10,766	10,819	434	470
Husband	8,349	8,047	501	524
Wife	1,806	2,103	245	271
Two or more earners	19,328	19,611	857	885
Husband and wife	17,208	17,471	872	902
Families maintained by women	4,959	4,950	363	373
Families maintained by men	1,586	1,802	510	558
Black				
Total families with earners ¹	5,145	5,010	439	472
Married-couple families	2,859	2,741	586	614
One earner	971	814	307	307
Husband	609	499	374	357
Wife	296	250	234	241
Two or more earners	1,888	1,927	765	750
Husband and wife	1,697	1,737	778	764
Families maintained by women	1,858	1,868	285	318
Families maintained by men	428	401	385	380
Hispanic origin				
Total families with earners ¹	3,331	3,525	451	495
Married-couple families	2,447	2,526	508	544
One earner	970	1,027	294	343
Husband	826	799	314	384
Wife	105	162	209	251
Two or more earners	1,477	1,499	681	701
Husband and wife	1,230	1,195	707	721
Families maintained by women	588	653	327	345
Families maintained by men	295	346	403	464

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Type of family and relationship of unemployed members to wage and salary earners	Number of families		Median weekly earnings	
	|| 1989	|| 1990	|| 1989	|| 1990
Married-couple families ¹	2,405	2,487	\$473	\$497
Husband unemployed	627	778	272	318
Wife only earner	476	590	255	290
Wife and other earner(s)	89	127	(²)	545
Other earner(s) only	62	61	(²)	(²)
Wife unemployed	792	720	419	470
Husband only earner	663	604	399	417
Husband and other earner(s)	106	110	692	770
Other earner(s) only	24	5	(²)	(²)
Other member(s) unemployed	986	990	691	791
Husband or wife earner	342	319	526	528
Both husband and wife earners	620	623	868	952
Other combinations of earners	23	48	(²)	(²)
Families maintained by women ¹	536	507	307	292
Householder unemployed	107	64	193	(²)
Other member(s) unemployed	428	444	334	309
Families maintained by men ¹	109	178	378	407

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

in the Armed Forces.

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	II 1989	II 1990	II 1989	II 1990
SEX AND AGE				
Total, 16 years and over	84,359	85,294	\$398	\$413
Men, 16 years and over	49,046	49,217	467	482
16 to 24 years	6,695	6,437	267	282
25 years and over	42,350	42,780	498	510
Women, 16 years and over	35,314	36,077	324	346
16 to 24 years	5,231	4,982	239	254
25 years and over	30,082	31,095	349	368
FAMILY RELATIONSHIP				
Husbands	31,190	31,352	512	525
Wives	18,525	18,952	338	358
Women who maintain families	4,750	4,807	317	339
Men who maintain families	1,652	1,847	415	437
Other persons in families:				
Men	6,530	6,349	273	293
Women	4,210	4,306	257	269
All other men ¹	9,667	9,668	433	440
All other women ¹	7,836	8,013	356	381
RACE, HISPANIC ORIGIN, AND SEX				
White	72,022	72,783	407	425
Men	42,628	42,697	479	495
Women	29,393	30,086	329	353
Black	9,510	9,773	324	326
Men	4,873	4,985	362	357
Women	4,637	4,788	302	310
Hispanic origin	6,634	7,067	289	303
Men	4,190	4,448	304	315
Women	2,443	2,619	263	284

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY DATA**

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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	II 1989	II 1990	II 1989	II 1990
SEX AND AGE				
Total, 16 years and over	19,150	19,052	\$110	\$119
Men, 16 years and over	5,994	5,979	103	113
16 to 24 years	3,342	3,260	87	97
25 years and over	2,652	2,719	131	146
Women, 16 years and over	13,157	13,073	113	122
16 to 24 years	4,060	3,878	85	95
25 years and over	9,097	9,195	133	143
FAMILY RELATIONSHIP				
Husbands	1,568	1,591	138	148
Wives	6,799	6,812	136	147
Women who maintain families	1,044	981	120	138
Men who maintain families	140	111	136	144
Other persons in families:				
Men	3,151	3,236	86	96
Women	3,556	3,364	82	93
All other men ¹	1,135	1,041	117	142
All other women ¹	1,758	1,916	116	120
RACE, HISPANIC ORIGIN, AND SEX				
White	16,714	16,721	110	120
Men	5,063	5,116	102	112
Women	11,651	11,606	114	124
Black	1,889	1,751	105	111
Men	710	626	100	111
Women	1,180	1,126	108	110
Hispanic origin	1,246	1,157	110	129
Men	497	464	117	137
Women	749	693	107	124

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Occupation and sex	Number of workers (in thousands)		Median weekly earnings	
	II 1989	II 1990	II 1989	II 1990
TOTAL				
Managerial and professional specialty	22,558	22,889	\$581	\$599
Executive, administrative, and managerial	11,284	11,408	582	595
Professional specialty	11,274	11,481	580	603
Technical, sales, and administrative support	25,447	26,257	358	379
Technicians and related support	3,076	3,490	478	498
Sales occupations	8,054	8,115	389	402
Administrative support, including clerical	14,318	14,653	327	349
Service occupations	8,620	8,962	253	268
Private household	331	276	150	164
Protective service	1,803	1,792	435	445
Service, except private household and protective	6,486	6,893	234	248
Precision production, craft, and repair	11,270	10,873	461	476
Mechanics and repairers	3,998	3,676	465	477
Construction trades	3,773	3,653	452	485
Other precision production, craft, and repair	3,499	3,544	462	461
Operators, fabricators, and laborers	15,089	14,909	319	339
Machine operators, assemblers, and inspectors	7,554	7,269	310	323
Transportation and material moving occupations	3,899	3,945	397	418
Handlers, equipment cleaners, helpers, and laborers	3,635	3,694	286	299
Farming, forestry, and fishing	1,375	1,404	245	255
Men				
Managerial and professional specialty	12,398	12,216	685	717
Executive, administrative, and managerial	6,612	6,459	689	722
Professional specialty	5,786	5,758	682	712
Technical, sales, and administrative support	9,378	9,963	485	494
Technicians and related support	1,675	1,924	548	561
Sales occupations	4,626	4,646	496	506
Administrative support, including clerical	3,077	3,394	427	438
Service occupations	4,404	4,537	299	317
Private household	38	14	(¹)	(¹)
Protective service	1,572	1,564	453	454
Service, except private household and protective	2,795	2,960	257	273
Precision production, craft, and repair	10,423	9,965	475	487
Mechanics and repairers	3,860	3,551	465	477
Construction trades	3,717	3,587	454	486
Other precision production, craft, and repair	2,847	2,827	500	503
Operators, fabricators, and laborers	11,237	11,317	361	379
Machine operators, assemblers, and inspectors	4,420	4,462	381	391
Transportation and material moving occupations	3,689	3,734	403	426
Handlers, equipment cleaners, helpers, and laborers	3,128	3,121	291	308
Farming, forestry, and fishing	1,204	1,217	250	262
Women				
Managerial and professional specialty	10,160	10,672	490	507
Executive, administrative, and managerial	4,672	4,949	466	484
Professional specialty	5,488	5,723	505	525
Technical, sales, and administrative support	16,069	16,294	314	329
Technicians and related support	1,400	1,566	408	426
Sales occupations	3,428	3,469	275	284
Administrative support, including clerical	11,241	11,259	313	332
Service occupations	4,215	4,424	217	231
Private household	292	262	146	161
Protective service	232	228	337	369
Service, except private household and protective	3,691	3,934	220	231
Precision production, craft, and repair	847	908	305	319
Mechanics and repairers	137	125	473	476
Construction trades	57	66	(¹)	(¹)
Other precision production, craft, and repair	653	717	290	295
Operators, fabricators, and laborers	3,852	3,592	251	262
Machine operators, assemblers, and inspectors	3,134	2,807	248	261
Transportation and material moving occupations	211	212	287	296
Handlers, equipment cleaners, helpers, and laborers	507	573	251	249
Farming, forestry, and fishing	171	187	213	214

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, sex, age, race, and Hispanic origin	Total United States		Metropolitan areas					
	II 1989	II 1990	Total		Central cities		Suburbs	
			II 1989	II 1990	II 1989	II 1990	II 1989	II 1990
TOTAL								
Civilian noninstitutional population	186,178	187,824	144,589	146,051	57,102	57,428	87,488	88,622
Civilian labor force	123,780	124,921	97,391	98,504	37,022	37,160	60,370	61,344
Percent of population	66.5	66.5	67.4	67.4	64.8	64.7	69.0	69.2
Employed	117,368	118,414	92,449	93,480	34,516	34,788	57,933	58,692
Unemployed	6,412	6,507	4,942	5,024	2,506	2,372	2,436	2,652
Unemployment rate	5.2	5.2	5.1	5.1	6.8	6.4	4.0	4.3
Not in labor force	62,398	62,904	47,198	47,547	20,080	20,268	27,118	27,279
Men, 20 years and over								
Civilian noninstitutional population	81,510	82,581	63,302	64,226	24,582	24,889	38,720	39,337
Civilian labor force	63,732	64,355	50,099	50,747	18,777	19,007	31,322	31,740
Percent of population	78.2	77.9	79.1	79.0	76.4	76.4	80.9	80.7
Employed	61,006	61,415	47,988	48,451	17,668	17,898	30,320	30,553
Unemployed	2,726	2,940	2,111	2,296	1,109	1,109	1,002	1,187
Unemployment rate	4.3	4.6	4.2	4.5	5.9	5.8	3.2	3.7
Not in labor force	17,778	18,226	13,204	13,479	5,805	5,883	7,398	7,597
Women, 20 years and over								
Civilian noninstitutional population	90,425	91,413	70,311	71,225	28,396	28,577	41,915	42,648
Civilian labor force	51,951	52,924	41,082	41,989	16,089	16,213	24,992	25,776
Percent of population	57.5	57.9	58.4	59.0	56.7	56.7	59.6	60.4
Employed	49,551	50,557	39,232	40,165	15,138	15,335	24,094	24,830
Unemployed	2,400	2,367	1,849	1,824	951	878	898	946
Unemployment rate	4.6	4.5	4.5	4.3	5.9	5.4	3.6	3.7
Not in labor force	38,475	38,489	29,229	29,235	12,307	12,364	16,923	16,872
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,243	13,830	10,976	10,600	4,123	3,962	6,853	6,638
Civilian labor force	8,098	7,641	6,211	5,768	2,155	1,940	4,055	3,828
Percent of population	56.9	55.3	56.6	54.4	52.3	49.0	59.2	57.7
Employed	6,812	6,441	5,229	4,865	1,710	1,555	3,519	3,309
Unemployed	1,286	1,200	982	903	446	385	536	519
Unemployment rate	15.9	15.7	15.8	15.7	20.7	19.8	13.2	13.5
Not in labor force	6,145	6,189	4,765	4,832	1,968	2,022	2,797	2,810
White								
Civilian noninstitutional population	159,198	160,269	121,971	122,731	42,474	42,591	79,497	80,140
Civilian labor force	106,401	107,354	82,569	83,509	27,839	28,096	54,731	55,413
Percent of population	66.8	67.0	67.7	68.0	65.5	66.0	68.8	69.1
Employed	101,741	102,518	79,072	79,872	26,365	26,682	52,707	53,190
Unemployed	4,660	4,837	3,497	3,637	1,474	1,415	2,023	2,223
Unemployment rate	4.4	4.5	4.2	4.4	5.3	5.0	3.7	4.0
Not in labor force	52,798	52,914	39,402	39,221	14,636	14,495	24,766	24,727
Black								
Civilian noninstitutional population	20,985	21,259	17,400	17,815	12,049	12,086	5,350	5,729
Civilian labor force	13,415	13,495	11,308	11,390	7,479	7,339	3,829	4,051
Percent of population	63.9	63.5	65.0	63.9	62.1	60.7	71.6	70.7
Employed	11,868	12,061	10,018	10,193	6,534	6,481	3,484	3,712
Unemployed	1,547	1,434	1,290	1,197	945	858	344	339
Unemployment rate	11.5	10.6	11.4	10.5	12.6	11.7	9.0	8.4
Not in labor force	7,569	7,764	6,092	6,425	4,570	4,747	1,522	1,678
Hispanic origin								
Civilian noninstitutional population	13,731	14,238	12,687	13,291	7,440	7,706	5,247	5,585
Civilian labor force	9,316	9,649	8,607	8,971	4,832	4,967	3,775	4,004
Percent of population	67.8	67.8	67.8	67.5	64.9	64.5	71.9	71.7
Employed	8,571	8,918	7,929	8,314	4,398	4,579	3,531	3,735
Unemployed	745	731	678	657	435	388	244	269
Unemployment rate	8.0	7.8	7.9	7.3	9.0	7.8	6.5	6.7
Not in labor force	4,415	4,589	4,080	4,320	2,608	2,738	1,472	1,582

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, sex, age, race, and Hispanic origin	Nonmetropolitan areas						Urban areas		Rural areas	
	Total		Farm		Nonfarm		1989	1990	1989	1990
	1989	1990	1989	1990	1989	1990				
TOTAL										
Civilian noninstitutional population	41,588	41,774	2,705	2,626	38,884	39,148	136,205	137,066	49,972	50,759
Civilian labor force	26,369	26,417	1,888	1,844	24,501	24,573	90,877	91,182	32,903	33,739
Percent of population	63.5	63.2	69.8	70.2	63.0	62.8	66.7	66.5	65.8	66.5
Employed	24,919	24,934	1,852	1,809	23,067	23,125	85,993	86,262	31,375	32,151
Unemployed	1,470	1,483	36	35	1,434	1,448	4,884	4,919	1,528	1,588
Unemployment rate	5.6	5.6	1.9	1.9	5.9	5.9	5.4	5.4	4.6	4.7
Not in labor force	15,200	15,357	816	782	14,383	14,575	45,328	45,884	17,069	17,020
Men, 20 years and over										
Civilian noninstitutional population	18,195	18,355	1,300	1,254	16,896	17,101	59,075	59,643	22,423	22,938
Civilian labor force	13,626	13,608	1,080	1,046	12,546	12,562	46,286	46,544	17,439	17,811
Percent of population	74.9	74.1	83.1	83.4	74.3	73.5	78.4	78.0	77.8	77.6
Employed	13,011	12,964	1,069	1,034	11,942	11,930	44,193	44,315	16,805	17,100
Unemployed	615	644	11	12	604	632	2,092	2,229	634	711
Unemployment rate	4.5	4.7	1.0	1.2	4.8	5.0	4.5	4.8	3.6	4.0
Not in labor force	4,570	4,747	220	208	4,350	4,539	12,789	13,099	4,984	5,127
Women, 20 years and over										
Civilian noninstitutional population	20,126	20,188	1,195	1,173	18,931	19,015	67,038	67,598	23,399	23,815
Civilian labor force	10,876	10,935	679	673	10,197	10,263	38,891	39,318	13,067	13,607
Percent of population	54.0	54.2	56.8	57.3	53.9	54.0	58.0	58.2	55.8	57.1
Employed	10,326	10,393	666	658	9,659	9,735	37,041	37,507	12,517	13,050
Unemployed	550	543	13	15	538	528	1,850	1,811	550	556
Unemployment rate	5.1	5.0	1.9	2.2	5.3	5.1	4.8	4.6	4.2	4.1
Not in labor force	9,250	9,253	516	501	8,733	8,753	28,148	28,281	10,332	10,208
Both sexes, 16 to 19 years										
Civilian noninstitutional population	3,267	3,231	209	199	3,058	3,032	10,092	9,824	4,151	4,006
Civilian labor force	1,887	1,873	129	125	1,758	1,748	5,700	5,320	2,397	2,321
Percent of population	57.8	58.0	61.6	63.0	57.5	57.7	56.5	54.2	57.8	57.9
Employed	1,583	1,577	117	117	1,466	1,460	4,759	4,440	2,053	2,001
Unemployed	304	296	12	8	292	288	942	879	344	320
Unemployment rate	16.1	15.8	9.5	6.5	16.6	16.5	16.5	16.5	14.4	13.8
Not in labor force	1,380	1,357	80	73	1,300	1,284	4,391	4,504	1,754	1,685
White										
Civilian noninstitutional population	37,227	37,538	2,654	2,551	34,573	34,987	112,807	113,129	46,391	47,140
Civilian labor force	23,831	23,845	1,857	1,799	21,974	22,046	75,679	75,918	30,722	31,437
Percent of population	64.0	63.5	70.0	70.5	63.6	63.0	67.1	67.1	66.2	66.7
Employed	22,669	22,646	1,823	1,767	20,846	20,878	72,321	72,469	29,420	30,049
Unemployed	1,163	1,199	34	31	1,129	1,168	3,358	3,449	1,302	1,388
Unemployment rate	4.9	5.0	1.8	1.7	5.1	5.3	4.4	4.5	4.2	4.4
Not in labor force	13,396	13,693	797	753	12,599	12,940	37,128	37,211	15,669	15,704
Black										
Civilian noninstitutional population	3,585	3,445	33	45	3,552	3,399	18,106	18,361	2,878	2,898
Civilian labor force	2,107	2,105	21	27	2,086	2,078	11,661	11,629	1,754	1,866
Percent of population	58.8	61.1	(¹)	(¹)	58.7	61.1	64.4	63.3	60.9	64.4
Employed	1,850	1,868	19	23	1,830	1,845	10,302	10,360	1,566	1,701
Unemployed	258	237	2	4	256	233	1,359	1,269	188	165
Unemployment rate	12.2	11.3	(¹)	(¹)	12.3	11.2	11.7	10.9	10.7	8.8
Not in labor force	1,478	1,339	11	18	1,466	1,321	6,445	6,732	1,124	1,032
Hispanic origin										
Civilian noninstitutional population	1,044	947	34	43	1,010	904	12,591	13,126	1,140	1,112
Civilian labor force	709	677	24	32	685	645	8,520	8,867	796	782
Percent of population	67.9	71.5	(¹)	(¹)	67.8	71.4	67.7	67.5	69.9	70.3
Employed	642	604	24	28	618	576	7,834	8,208	737	710
Unemployed	67	74	-	4	67	70	686	659	59	72
Unemployment rate	9.4	10.9	(¹)	(¹)	9.7	10.8	8.1	7.4	7.4	9.2
Not in labor force	335	269	10	11	325	259	4,072	4,259	343	330

¹ Data not shown where base is less than 60,000.
NOTE: Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented and Hispanics are

included in both the white and black population groups. These data are based on 1980 census designations and are not comparable to data published through the first quarter of 1984.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, race, and Hispanic origin	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
TOTAL												
Civilian noninstitutional population	27,400	27,095	158,777	160,730	18,049	17,625	126,541	128,426	9,352	9,470	32,237	32,304
Civilian labor force	15,720	15,453	108,060	109,468	10,230	9,894	87,161	88,610	5,489	5,558	20,899	20,859
Percent of population	57.4	57.0	68.1	68.1	56.7	56.1	68.9	69.0	58.7	58.7	64.8	64.6
Employed	14,126	14,029	103,243	104,385	9,079	8,878	83,370	84,602	5,046	5,151	19,873	19,783
Unemployed	1,594	1,424	4,818	5,084	1,151	1,016	3,791	4,008	443	408	1,027	1,076
Unemployment rate	10.1	9.2	4.5	4.6	11.2	10.3	4.3	4.5	8.1	7.3	4.9	5.2
Men, 20 years and over	8.5	8.4	3.7	4.0	9.6	9.7	3.6	4.0	6.6	6.2	4.0	4.3
Women, 20 years and over	9.0	7.8	4.0	4.0	9.9	8.6	3.9	3.9	7.2	6.5	4.5	4.5
Both sexes, 16 to 19 years	28.7	25.6	13.8	14.3	30.0	28.3	13.9	14.3	26.1	21.6	13.8	14.4
Men	26.6	23.9	14.6	14.8	28.7	25.9	14.6	14.6	22.6	20.9	14.7	15.7
Women	31.1	27.5	13.0	13.8	31.3	30.9	13.1	14.0	30.6	22.3	12.9	13.0
Not in labor force	11,681	11,642	50,717	51,262	7,818	7,730	39,380	39,816	3,862	3,912	11,337	11,445
White												
Civilian noninstitutional population	16,603	16,358	142,595	143,910	9,733	9,290	112,238	113,440	6,870	7,068	30,357	30,470
Civilian labor force	9,761	9,578	96,640	97,776	5,652	5,384	76,917	78,126	4,109	4,194	19,723	19,651
Percent of population	58.8	58.5	67.8	67.9	58.1	58.0	68.5	68.9	59.8	59.3	65.0	64.5
Employed	9,002	8,930	92,739	93,588	5,145	4,957	73,927	74,915	3,857	3,973	18,811	18,673
Unemployed	759	648	3,901	4,189	507	427	2,990	3,210	251	221	911	978
Unemployment rate	7.8	6.8	4.0	4.3	9.0	7.9	3.9	4.1	6.1	5.3	4.6	5.0
Men, 20 years and over	6.6	6.2	3.3	3.7	7.4	7.5	3.2	3.6	5.5	4.4	3.6	4.2
Women, 20 years and over	7.2	5.6	3.6	3.7	8.6	6.4	3.4	3.5	5.3	4.6	4.3	4.4
Both sexes, 16 to 19 years	20.6	19.5	12.6	13.1	22.6	22.1	12.4	12.9	17.2	16.6	13.2	13.6
Men	19.3	19.4	13.1	13.2	22.5	23.3	12.8	12.8	14.6	15.0	14.2	14.3
Women	22.1	19.6	11.9	13.0	22.8	20.7	11.9	13.1	20.8	18.4	12.0	12.8
Not in labor force	6,843	6,781	45,955	46,134	4,081	3,906	35,321	35,315	2,762	2,874	10,634	10,819
Black												
Civilian noninstitutional population	9,707	9,585	11,277	11,674	7,521	7,480	9,879	10,334	2,187	2,105	1,398	1,340
Civilian labor force	5,361	5,255	8,054	8,240	4,139	4,052	7,168	7,338	1,221	1,203	886	902
Percent of population	55.2	54.8	71.4	70.6	55.0	54.2	72.6	71.0	55.9	57.2	63.4	67.3
Employed	4,580	4,541	7,288	7,521	3,527	3,505	6,491	6,688	1,053	1,036	797	832
Unemployed	781	714	767	720	612	548	677	649	168	167	89	70
Unemployment rate	14.6	13.6	9.5	8.7	14.8	13.5	9.4	8.8	13.8	13.9	10.1	7.8
Men, 20 years and over	12.8	12.7	8.1	7.6	14.0	13.0	7.8	7.8	9.0	11.8	10.0	5.7
Women, 20 years and over	11.8	11.5	8.0	7.2	11.5	11.2	8.1	7.2	13.0	12.4	7.6	6.9
Both sexes, 16 to 19 years	42.0	36.4	30.6	28.5	40.9	35.9	31.2	28.7	45.4	37.7	26.4	26.9
Men	39.0	33.4	33.4	32.8	37.8	29.9	34.6	32.7	(¹)	(¹)	(¹)	(¹)
Women	45.1	39.1	27.5	23.3	44.1	41.5	27.2	24.0	(¹)	(¹)	(¹)	(¹)
Not in labor force	4,347	4,330	3,223	3,434	3,381	3,428	2,711	2,997	965	902	512	438
Hispanic origin												
Civilian noninstitutional population	4,609	4,340	9,122	9,897	4,230	3,994	8,457	9,297	379	347	665	600
Civilian labor force	2,723	2,507	6,593	7,141	2,487	2,278	6,121	6,693	236	229	472	449
Percent of population	59.1	57.8	72.3	72.2	58.8	57.1	72.4	72.0	62.3	65.9	71.0	74.8
Employed	2,421	2,245	6,150	6,673	2,211	2,040	5,717	6,274	209	205	433	399
Unemployed	302	262	443	469	275	239	403	418	27	23	40	50
Unemployment rate	11.1	10.4	6.7	6.6	11.1	10.5	6.6	6.3	11.5	10.2	8.4	11.2
Men, 20 years and over	8.2	9.1	4.9	5.3	8.0	9.1	4.7	5.1	9.9	9.2	7.5	7.6
Women, 20 years and over	12.3	10.0	7.0	6.0	12.4	9.9	7.0	5.5	11.9	10.8	6.3	12.9
Both sexes, 16 to 19 years	25.8	23.5	20.2	20.1	25.9	25.4	19.9	19.6	(¹)	(¹)	(¹)	(¹)
Men	25.9	21.9	19.3	19.0	26.2	23.4	19.5	18.1	(¹)	(¹)	(¹)	(¹)
Women	25.7	26.0	21.7	22.0	25.5	28.1	20.7	21.9	(¹)	(¹)	(¹)	(¹)
Not in labor force	1,886	1,833	2,529	2,756	1,743	1,715	2,336	2,605	143	118	193	151

¹ Data not shown where base is less than 60,000.
NOTE: Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented and

Hispanics are included in both the white and black population groups. These data are based on 1980 census designations and are not comparable to data published through the first quarter of 1984.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-2. Employees on nonagricultural payrolls by detailed industry

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a	May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a
Total		108,745	109,534	110,265	111,220	111,768	-	-	-	-	-
Total private		90,715	91,742	91,704	92,388	93,274	73,428	74,343	74,140	74,774	75,589
Mining		719	719	747	756	764	518	515	540	548	553
Metal mining	10	61.1	63.1	65.8	66.9	-	48.5	50.2	52.4	53.2	-
Iron ores	101	9.3	9.6	9.9	10.1	-	7.6	7.9	8.1	8.3	-
Copper ores	102	14.0	14.1	15.1	15.2	-	11.1	11.2	12.3	12.3	-
Coal mining	11,12	144.0	134.3	147.5	149.7	-	117.9	108.3	121.0	122.7	-
Bituminous coal and lignite mining	12	141.8	132.1	144.5	146.8	-	116.0	106.4	118.4	120.2	-
Oil and gas extraction	13	395.9	400.9	417.8	421.7	424.8	260.6	263.0	278.2	281.5	-
Crude petroleum, natural gas, and natural gas liquids ...	131,2	196.1	198.8	195.2	196.1	-	97.1	97.8	95.2	95.8	-
Oil and gas field services	138	199.8	202.1	222.6	225.6	-	163.5	165.2	183.0	185.7	-
Nonmetallic minerals, except fuels	14	118.3	121.0	115.7	118.0	-	91.0	93.0	88.1	90.1	-
Crushed and broken stone	142	42.7	43.5	41.3	42.2	-	34.0	34.6	32.2	32.9	-
Sand and gravel	144	37.2	38.6	35.6	36.8	-	-	-	-	-	-
Chemical and fertilizer minerals	147	17.8	18.0	17.9	18.0	-	-	-	-	-	-
Construction		5,325	5,494	5,169	5,348	5,498	4,152	4,308	3,977	4,148	4,290
General building contractors	15	1,383.9	1,430.0	1,330.2	1,376.4	1,423.4	1,004.4	1,047.2	948.6	993.0	-
Residential building construction	152	748.1	775.6	710.9	739.8	-	529.7	556.4	493.1	520.4	-
Operative builders	153	45.3	46.3	42.3	42.6	-	20.0	20.6	18.4	18.4	-
Nonresidential building construction	154	590.5	608.1	577.0	594.0	-	454.7	470.2	437.1	454.2	-
Heavy construction contractors	16	822.8	849.3	799.0	846.7	-	688.7	713.2	663.4	710.1	-
Highway and street construction	161	265.4	281.2	233.0	264.2	-	219.5	234.9	189.0	219.2	-
Heavy construction, except highway	162	557.4	568.1	566.0	582.5	-	469.2	478.3	474.4	490.9	-
Special trade contractors	17	3,118.2	3,214.8	3,039.8	3,124.4	-	2,459.2	2,547.5	2,364.5	2,445.0	-
Plumbing, heating, and air conditioning	171	671.1	680.3	654.7	655.9	-	495.8	503.7	478.6	479.6	-
Painting, paper hanging, and decorating	172	179.6	189.0	167.3	178.3	-	150.5	158.9	138.0	148.1	-
Electrical work	173	549.7	563.3	553.7	560.8	-	423.3	436.2	425.5	432.6	-
Masonry, stonework, and plastering	174	511.5	531.1	502.3	512.1	-	439.8	458.0	428.6	437.6	-
Carpentering and flooring	175	198.8	207.8	184.7	188.4	-	154.5	162.9	139.2	143.1	-
Roofing and sheet metal work	176	215.5	224.5	213.8	220.6	-	170.7	178.9	168.8	174.7	-
Manufacturing		19,619	19,759	19,323	19,334	19,460	13,390	13,487	13,126	13,133	13,239
Durable goods		11,587	11,631	11,335	11,343	11,392	7,738	7,760	7,535	7,544	7,586
Lumber and wood products	24	769.1	786.3	749.7	759.1	771.9	638.8	653.6	618.2	627.1	638.7
Logging camps and logging contractors	241	89.6	97.0	85.6	91.0	-	73.4	80.0	69.6	74.6	-
Sawmills and planing mills	242	208.4	211.4	205.7	207.2	-	182.4	185.0	179.1	180.7	-
Sawmills and planing mills, general	2421	169.1	171.9	167.3	168.9	-	148.0	150.5	145.6	147.1	-
Hardwood dimension and flooring	2426	35.6	35.9	34.9	35.0	-	31.3	31.5	30.6	30.7	-
Millwork, plywood, and structural members	243	271.6	276.8	264.1	266.5	-	222.2	227.0	214.2	216.4	-
Millwork	2431	109.0	110.5	104.3	105.6	-	88.1	89.1	82.8	84.2	-
Wood kitchen cabinets	2434	72.7	72.8	70.8	71.6	-	57.9	58.2	56.2	56.8	-
Hardwood veneer and plywood	2435	24.9	24.9	24.0	24.2	-	21.6	21.6	20.7	20.8	-
Softwood veneer and plywood	2436	35.2	37.6	36.5	36.3	-	31.5	33.9	32.8	32.6	-
Wood containers	244	43.8	43.9	42.3	42.6	-	37.2	37.2	35.7	35.8	-
Wood buildings and mobile homes	245	70.0	70.9	66.9	67.5	-	53.3	53.9	50.5	51.3	-
Mobile homes	2451	49.3	49.7	47.8	48.6	-	40.2	40.4	38.4	39.3	-
Miscellaneous wood products	249	85.7	86.3	85.1	84.3	-	70.3	70.5	69.1	68.3	-

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				
		May 1989	June 1989	Apr. 1990	May 1990 ^p	June 1990 ^p	May 1989	June 1989	Apr. 1990	May 1990 ^p	June 1990 ^p
Durable goods—Continued											
Furniture and fixtures	25	531.3	531.9	520.8	518.4	519.8	423.8	424.0	413.3	410.3	412.0
Household furniture	251	310.0	308.0	302.4	299.9	-	262.0	260.2	253.9	250.8	-
Wood household furniture	2511	137.7	137.1	132.1	130.9	-	120.4	120.0	114.2	112.8	-
Upholstered household furniture	2512	101.7	102.3	102.8	102.6	-	85.1	85.6	85.9	85.5	-
Metal household furniture	2514	26.7	24.6	25.1	24.1	-	21.6	19.6	20.3	19.3	-
Mattresses and bedsprings	2515	30.3	30.4	29.7	29.8	-	23.3	23.4	22.8	22.7	-
Office furniture	252	69.4	70.2	65.9	65.6	-	51.9	52.5	49.0	48.9	-
Public building and related furniture	253	34.7	34.9	33.2	33.3	-	27.2	27.3	25.9	26.0	-
Partitions and fixtures	254	79.2	80.5	81.5	82.0	-	57.0	58.1	58.5	58.6	-
Miscellaneous furniture and fixtures	259	38.0	38.3	37.8	37.6	-	25.7	25.9	26.0	26.0	-
Stone, clay, and glass products	32	609.2	616.0	591.9	597.2	603.5	474.8	480.2	457.8	462.3	468.2
Flat glass	321	16.3	16.4	15.5	15.7	-	13.2	13.3	12.1	12.4	-
Glass and glassware, pressed or blown	322	84.3	84.6	81.7	81.6	-	72.9	73.1	70.5	70.5	-
Glass containers	3221	42.6	42.9	41.1	41.6	-	38.8	38.9	37.0	37.5	-
Pressed and blown glass, nec	3229	41.7	41.7	40.6	40.0	-	34.1	34.2	33.5	33.0	-
Products of purchased glass	323	55.5	56.2	53.4	53.6	-	42.6	43.1	40.8	41.0	-
Cement, hydraulic	324	19.4	20.0	19.5	18.8	-	14.7	15.4	14.9	14.4	-
Structural clay products	325	38.6	38.7	37.2	37.2	-	30.0	30.0	28.6	28.7	-
Pottery and related products	326	38.3	38.9	38.2	38.0	-	30.6	30.7	30.3	30.0	-
Concrete, gypsum, and plaster products	327	219.6	223.0	212.2	217.6	-	169.3	172.2	161.9	166.4	-
Concrete block and brick	3271	19.9	19.9	18.8	19.1	-	13.0	13.1	12.2	12.4	-
Concrete products, nec	3272	75.8	76.8	73.6	74.2	-	57.8	58.7	55.4	55.7	-
Ready-mixed concrete	3273	104.2	106.3	100.3	104.8	-	83.2	85.0	79.1	83.2	-
Misc. nonmetallic mineral products	329	121.4	122.2	118.7	118.7	-	89.2	90.0	87.1	86.8	-
Abrasive products	3291	22.8	22.9	22.2	22.1	-	16.2	16.6	15.6	15.6	-
Asbestos products	3292	8.9	8.9	8.9	9.0	-	6.7	6.6	6.7	6.8	-
Mineral wool	3296	26.5	26.7	25.8	25.7	-	-	-	-	-	-
Primary metal industries	33	786.9	790.6	767.1	766.0	770.2	601.7	605.0	584.2	582.4	586.5
Blast furnaces and basic steel products	331	275.5	277.7	267.5	267.2	268.5	212.7	214.4	205.7	205.4	205.8
Blast furnaces and steel mills	3312	206.4	208.4	200.3	200.1	-	160.8	162.3	155.4	155.3	-
Steel pipe and tubes	3317	24.8	25.0	24.6	24.6	-	18.7	18.8	18.5	18.4	-
Iron and steel foundries	332	144.8	144.9	139.5	139.2	-	115.5	116.2	111.3	110.5	-
Gray iron foundries	3321	87.6	87.9	86.2	85.6	-	71.9	72.2	70.3	69.6	-
Malleable iron foundries	3322	9.8	9.3	8.8	8.7	-	7.4	7.4	6.8	6.7	-
Steel foundries, nec	3325	31.3	31.5	29.0	29.5	-	24.6	24.8	22.6	22.8	-
Primary nonferrous metals	333	45.4	46.1	45.4	45.2	-	34.1	34.5	33.8	33.2	-
Primary aluminum	3334	27.0	27.3	26.6	26.6	-	20.9	21.1	20.4	20.0	-
Nonferrous rolling and drawing	335	182.1	183.0	179.0	179.2	-	130.8	131.5	128.7	129.3	-
Copper rolling and drawing	3351	23.5	23.8	22.7	22.2	-	18.1	18.4	17.3	16.9	-
Aluminum sheet, plate, and foil	3353	28.3	28.0	28.5	28.7	-	19.1	18.7	19.1	19.4	-
Nonferrous wire drawing and insulating	3357	77.7	77.7	75.9	76.5	-	56.7	56.8	55.6	56.2	-
Nonferrous foundries	336	91.7	91.9	89.7	89.5	-	73.4	73.5	71.1	70.7	-
Aluminum foundries	3361	54.8	54.8	52.5	52.2	-	44.6	44.6	42.5	42.0	-
Fabricated metal products	34	1,451.0	1,455.8	1,419.6	1,420.9	1,424.6	1,077.6	1,080.8	1,047.5	1,048.3	1,052.2
Metal cans and shipping containers	341	52.8	53.8	52.9	53.0	-	45.4	46.2	45.2	45.3	-
Metal cans	3411	41.6	42.6	41.8	41.8	-	36.1	37.0	36.2	36.2	-
Cutlery, hand tools, and hardware	342	135.9	135.4	131.9	131.8	-	100.3	99.8	96.6	96.4	-
Hand and edge tools, and hand saws and blades	3423,5	45.9	45.8	45.4	45.2	-	33.3	33.3	33.2	32.9	-
Hardware, nec	3429	78.8	78.7	74.7	74.9	-	59.3	58.6	55.4	55.6	-
Plumbing and heating, except electric	343	60.0	60.6	60.1	60.1	-	43.4	44.0	42.8	42.7	-
Plumbing fittings and brass goods	3432	25.9	26.2	25.8	26.0	-	19.3	19.5	19.1	19.2	-
Heating equipment, except electric	3433	21.4	21.8	21.5	21.3	-	14.4	14.8	14.1	13.9	-
Fabricated structural metal products	344	434.4	438.8	426.4	428.9	-	310.1	314.3	301.5	303.7	-
Fabricated structural metal	3441	79.0	79.1	77.5	78.5	-	56.7	56.8	55.4	56.1	-
Metal doors, sash, and trim	3442	83.5	84.6	80.3	81.3	-	60.9	61.7	57.8	58.7	-
Fabricated plate work (boiler shops)	3443	107.3	108.2	107.9	107.8	-	72.5	73.3	72.6	72.6	-
Sheet metal work	3444	99.2	100.5	96.6	96.6	-	74.3	75.6	71.7	71.7	-
Architectural metal work	3446	33.1	33.2	31.7	31.8	-	23.9	24.2	22.3	22.5	-

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				
		May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a	May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a
Durable goods—Continued											
Fabricated metal products—Continued											
Screw machine products, bolts, etc	345	101.4	101.4	98.8	98.4	-	77.3	77.2	76.0	75.3	-
Screw machine products	3451	50.2	49.9	48.8	48.7	-	40.8	40.5	39.6	39.4	-
Bolts, nuts, rivets, and washers	3452	51.2	51.5	50.0	49.7	-	36.5	36.7	36.4	35.9	-
Metal forgings and stampings	346	236.6	233.7	225.9	225.7	-	189.2	186.2	178.6	178.4	-
Iron and steel forgings	3462	33.4	33.1	32.2	32.0	-	25.7	25.5	24.8	24.6	-
Automotive stampings	3465	106.3	103.7	99.0	99.3	-	90.0	87.1	82.7	83.2	-
Metal stampings, nec	3469	84.2	84.1	82.3	82.1	-	63.9	63.9	61.9	61.5	-
Metal services, nec	347	130.0	130.6	128.9	129.2	-	103.4	103.8	101.0	101.2	-
Plating and polishing	3471	83.9	84.8	82.6	83.1	-	67.1	67.9	65.1	65.4	-
Metal coating and allied services	3479	46.1	45.8	46.3	46.1	-	36.3	35.9	35.9	35.8	-
Ordnance and accessories, nec	348	72.3	72.1	67.9	67.2	-	43.4	43.3	42.4	42.5	-
Ammunition, except for small arms, nec	3483	40.1	40.0	37.0	36.4	-	21.1	21.0	20.5	20.4	-
Misc. fabricated metal products	349	227.6	229.4	226.8	226.6	-	165.1	166.0	163.4	162.8	-
Valves and pipe fittings	3494	78.5	79.3	78.7	78.3	-	52.7	53.1	52.4	52.0	-
Misc. fabricated wire products	3496	55.6	56.3	56.5	56.8	-	42.6	43.0	42.8	43.0	-
Machinery, except electrical	35	2,153.9	2,161.3	2,128.6	2,126.9	2,126.9	1,306.2	1,309.1	1,293.5	1,291.5	1,289.7
Engines and turbines	351	98.2	97.8	97.8	100.1	-	64.8	64.0	63.5	64.5	-
Turbines and turbine generator sets	3511	27.7	28.3	29.8	30.4	-	16.3	16.6	17.1	17.5	-
Internal combustion engines, nec	3519	70.5	69.5	68.0	69.7	-	48.5	47.4	46.4	47.0	-
Farm and garden machinery	352	110.3	107.9	124.3	122.8	-	80.1	78.0	93.0	91.9	-
Farm machinery and equipment	3523	80.3	80.4	85.2	84.8	-	56.7	56.9	61.3	61.4	-
Construction and related machinery	353	238.0	239.9	241.2	241.1	-	146.6	147.6	148.5	148.6	-
Construction machinery	3531	86.8	87.4	87.4	87.7	-	54.2	54.6	54.0	54.0	-
Mining machinery	3532	16.7	16.8	17.2	17.3	-	10.4	10.4	10.7	10.8	-
Oil field machinery	3533	42.6	42.6	43.2	43.1	-	25.1	25.0	25.8	26.1	-
Conveyors and conveying equipment	3535	36.2	37.1	36.1	35.9	-	19.9	20.2	20.0	19.9	-
Industrial trucks and tractors	3537	28.6	28.6	29.0	28.9	-	19.6	19.6	19.6	19.6	-
Metalworking machinery	354	335.6	337.6	330.8	330.2	-	243.0	244.4	237.9	237.4	-
Machine tools, metal cutting types	3541	53.6	54.3	52.7	52.6	-	35.2	35.7	34.2	34.1	-
Machine tools, metal forming types	3542	19.4	19.6	19.8	19.6	-	12.6	12.7	12.5	12.3	-
Special dies, tools, jigs, and fixtures	3544	157.5	157.8	156.6	156.7	-	121.5	122.1	121.0	121.2	-
Machine tool accessories	3545	61.7	62.2	59.4	59.0	-	44.1	44.4	41.9	41.6	-
Power driven hand tools	3546	23.7	23.9	22.9	22.8	-	17.0	17.0	15.9	15.8	-
Special industry machinery	355	179.4	180.0	175.5	175.8	-	107.5	107.5	103.9	103.9	-
Food products machinery	3551	36.2	36.4	35.6	35.6	-	21.9	22.0	21.5	21.4	-
Textile machinery	3552	21.2	21.2	20.9	20.7	-	14.0	14.0	13.9	13.6	-
Printing trades machinery	3555	29.5	29.6	26.7	26.7	-	17.4	17.3	15.2	15.2	-
General industrial machinery	356	256.9	257.9	255.7	254.7	-	166.6	167.5	166.7	165.5	-
Pumps and pumping equipment	3561	46.1	46.1	46.3	46.1	-	26.7	26.8	27.4	27.2	-
Ball and roller bearings	3562	43.9	44.2	43.7	43.8	-	34.4	34.5	34.1	34.2	-
Air and gas compressors	3563	22.6	23.0	22.7	22.4	-	12.8	13.1	12.9	12.5	-
Blowers and fans	3564	31.5	31.9	31.6	31.8	-	21.1	21.6	21.5	21.6	-
Speed changers, drives, and gears	3566	17.7	17.7	17.6	17.7	-	12.2	12.3	12.3	12.3	-
Power transmission equipment, nec	3568	18.9	18.9	18.6	18.2	-	13.0	12.8	12.7	12.3	-
Office and computing machines	357	475.2	476.9	457.9	455.8	-	154.6	155.0	150.9	149.6	-
Electronic computing equipment	3573	420.4	421.8	404.7	402.8	-	129.0	129.7	126.3	125.1	-
Refrigeration and service machinery	358	189.6	191.6	178.2	179.4	-	137.0	138.7	126.0	126.9	-
Refrigeration and heating equipment	3585	132.7	134.7	123.9	125.0	-	99.0	100.6	90.4	91.2	-
Misc. machinery, except electrical	359	270.7	271.7	267.2	267.0	-	206.0	206.4	203.1	203.2	-
Carburetors, pistons, rings, and valves	3592	30.3	30.1	27.8	27.8	-	24.1	23.7	22.6	22.7	-
Machinery, except electrical, nec	3599	240.4	241.6	239.4	239.2	-	181.9	182.7	180.5	180.5	-
Electrical and electronic equipment	36	2,039.6	2,043.2	1,973.2	1,969.8	1,975.6	1,198.0	1,198.3	1,165.1	1,160.6	1,166.0
Electric distributing equipment	361	107.2	107.3	104.1	103.4	-	75.6	75.5	73.1	72.5	-
Transformers	3612	53.2	52.8	50.9	50.5	-	38.0	37.7	36.0	35.7	-
Switchgear and switchboard apparatus	3613	54.0	54.5	53.2	52.9	-	37.6	37.8	37.1	36.8	-
Electrical industrial apparatus	362	186.9	187.8	182.8	182.2	-	131.3	131.9	126.4	125.6	-
Motors and generators	3621	91.1	91.6	87.4	86.8	-	71.8	72.2	68.3	67.7	-
Industrial controls	3622	60.9	61.1	61.0	61.0	-	36.4	36.2	35.4	35.2	-
Household appliances	363	137.5	137.1	135.4	134.2	-	109.9	109.5	109.3	108.0	-
Household refrigerators and freezers	3632	28.7	28.6	27.3	25.9	-	23.4	23.2	23.1	21.5	-
Household laundry equipment	3633	21.5	22.4	23.1	22.8	-	17.2	17.9	18.7	18.4	-
Electric housewares and fans	3634	37.4	37.6	36.8	36.8	-	29.5	29.6	28.2	28.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		May 1989	June 1989	Apr. 1990	May 1990 ^p	June 1990 ^p	May 1989	June 1989	Apr. 1990	May 1990 ^p	June 1990 ^p
Durable goods—Continued											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment	364	198.9	198.7	193.8	193.4	-	143.5	143.2	140.7	140.0	-
Electric lamps	3641	26.5	26.4	26.4	26.4	-	22.6	22.5	22.6	22.5	-
Current-carrying wiring devices	3643	78.0	77.8	75.0	74.9	-	50.8	50.5	48.8	48.7	-
Noncurrent-carrying wiring devices	3644	16.9	17.0	16.9	17.0	-	12.6	12.7	12.5	12.6	-
Residential lighting fixtures	3645	27.1	26.8	26.7	26.2	-	19.9	19.8	19.8	19.2	-
Radio and TV receiving equipment	365	92.2	93.2	93.4	93.3	-	64.8	65.5	65.6	65.3	-
Radio and TV receiving sets	3651	68.4	69.4	68.9	68.8	-	46.7	47.6	46.3	46.1	-
Communication equipment	366	541.6	541.0	511.3	509.5	-	219.3	217.9	206.3	206.0	-
Telephone and telegraph apparatus	3661	103.7	103.5	94.8	94.6	-	62.3	62.1	58.1	58.7	-
Radio and TV communication equipment	3662	437.9	437.5	416.5	414.9	-	157.0	155.8	148.2	147.3	-
Electronic components and accessories	367	619.9	622.0	598.5	599.5	-	344.5	345.6	335.6	335.4	-
Electronic tubes	3671-3	38.6	38.5	37.7	37.4	-	24.6	24.3	23.6	23.3	-
Semiconductors and related devices	3674	257.7	259.6	251.0	252.2	-	96.2	97.2	97.2	97.2	-
Electronic components, nec	3679	250.0	250.6	242.2	243.0	-	169.3	170.0	165.1	165.5	-
Misc. electrical equipment and supplies	369	155.4	156.1	153.9	154.3	-	109.1	109.2	108.1	107.8	-
Storage batteries	3691	26.4	27.8	28.5	28.7	-	19.7	21.2	21.9	22.1	-
Engine electrical equipment	3694	70.0	69.3	66.6	66.8	-	53.8	53.1	50.5	50.4	-
Transportation equipment	37	2,078.0	2,068.1	2,023.0	2,023.8	2,029.6	1,303.4	1,290.7	1,246.6	1,251.1	1,252.9
Motor vehicles and equipment	371	879.4	869.3	827.9	828.0	833.6	684.8	674.5	633.8	635.5	639.2
Motor vehicles and car bodies	3711	369.1	362.1	342.2	341.6	-	277.2	270.3	250.6	251.0	-
Truck and bus bodies	3713	44.5	45.0	43.0	43.2	-	34.4	35.2	33.7	33.8	-
Motor vehicle parts and accessories	3714	414.6	412.6	397.0	397.3	-	332.6	329.9	314.3	315.1	-
Truck trailers	3715	30.6	30.1	26.5	26.8	-	24.3	23.9	20.8	21.2	-
Aircraft and parts	372	700.0	703.2	705.1	704.4	-	341.8	342.2	340.2	340.5	-
Aircraft	3721	378.0	380.3	381.5	382.0	-	167.1	167.8	164.1	164.0	-
Aircraft engines and engine parts	3724	150.1	150.3	152.0	151.3	-	75.7	75.2	77.0	77.2	-
Aircraft equipment, nec	3728	171.9	172.6	171.6	171.1	-	99.0	99.2	99.1	99.3	-
Ship and boat building and repairing	373	191.1	187.9	184.5	186.5	-	143.1	139.6	139.0	141.3	-
Ship building and repairing	3731	120.8	120.3	122.0	124.3	-	84.4	83.4	87.5	90.0	-
Boat building and repairing	3732	70.3	67.6	62.5	62.2	-	58.7	56.2	51.5	51.3	-
Railroad equipment	374	38.7	39.2	39.7	39.9	-	28.8	29.2	29.3	29.5	-
Guided missiles, space vehicles, and parts	376	207.3	207.1	204.3	203.4	-	62.8	63.1	62.5	62.3	-
Guided missiles and space vehicles	3761	152.3	152.3	152.7	152.3	-	42.4	42.6	42.7	42.6	-
Miscellaneous transportation equipment	379	48.1	48.2	47.7	47.8	-	32.5	32.6	31.5	31.8	-
Travel trailers and campers	3792	19.4	19.7	20.3	20.4	-	15.1	15.3	15.5	15.8	-
Instruments and related products	38	776.6	782.6	772.4	770.5	777.0	429.7	431.2	426.7	428.0	435.7
Engineering and scientific instruments	381	99.3	99.6	100.5	100.7	-	46.3	46.0	48.3	48.7	-
Measuring and controlling devices	382	270.1	272.1	265.5	265.0	-	155.5	155.5	150.6	150.8	-
Environmental controls	3822	49.6	50.3	47.7	47.4	-	33.3	33.7	32.1	32.2	-
Process control instruments	3823	62.9	63.8	63.4	63.9	-	33.9	34.2	33.2	33.6	-
Instruments to measure electricity	3825	109.1	109.5	106.3	105.6	-	55.7	55.1	53.6	53.4	-
Optical instruments and lenses	383	30.5	30.6	29.5	28.8	-	16.3	16.3	15.3	15.1	-
Medical instruments and supplies	384	210.5	212.4	215.4	215.9	-	126.5	127.2	129.3	130.3	-
Surgical and medical instruments	3841	104.9	105.6	107.0	107.3	-	61.2	61.2	61.5	62.0	-
Surgical appliances and supplies	3842	90.6	91.7	93.6	93.7	-	56.9	57.5	58.7	59.1	-
Ophthalmic goods	385	39.3	39.8	40.8	39.7	-	26.9	27.4	28.2	27.5	-
Photographic equipment and supplies	386	115.6	117.3	109.9	109.7	-	49.7	50.7	46.9	47.5	-
Watches, clocks, and watchcases	387	11.3	10.8	10.8	10.7	-	8.5	8.1	8.1	8.1	-
Miscellaneous manufacturing	39	391.4	395.1	388.7	390.8	392.4	283.5	287.3	281.6	282.3	284.5
Jewelry, silverware, and plated ware	391	53.7	54.0	52.9	52.9	-	38.1	38.4	36.7	36.9	-
Jewelry, precious metal	3911	38.7	39.1	38.1	38.1	-	27.4	27.6	26.1	26.3	-
Musical instruments	393	13.4	13.5	12.7	12.7	-	11.0	11.2	10.4	10.3	-
Toys and sporting goods	394	105.2	107.0	104.9	105.6	-	77.0	78.7	76.4	76.4	-
Dolls, games, toys, and children's vehicles	3942.4	44.7	45.3	43.3	43.7	-	31.3	32.1	30.3	30.4	-
Sporting and athletic goods, nec	3949	60.5	61.7	61.6	61.9	-	45.7	46.6	46.1	46.0	-
Pens, pencils, office, and art supplies	395	34.7	34.9	33.6	33.8	-	24.0	24.3	23.6	23.6	-
Costume jewelry and notions	396	42.2	42.7	44.7	45.8	-	33.0	33.5	34.9	35.6	-
Costume jewelry	3961	23.0	23.0	25.0	25.4	-	17.7	17.7	19.7	19.8	-
Miscellaneous manufactures	399	142.2	143.0	139.9	140.0	-	100.4	101.2	99.6	99.5	-
Signs and advertising displays	3993	61.9	62.1	61.9	61.4	-	42.3	42.6	43.1	42.7	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a	May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a
Nondurable goods		8,032	8,128	7,988	7,991	8,068	5,652	5,727	5,591	5,589	5,653
Food and kindred products	20	1,616.4	1,668.4	1,618.8	1,628.1	1,663.5	1,145.1	1,191.0	1,152.8	1,159.4	1,190.6
Meat products	201	413.8	421.9	421.8	424.4	-	350.7	357.8	358.3	360.3	-
Meat packing plants	2011	143.1	144.1	144.1	144.3	-	119.6	120.2	121.1	121.1	-
Sausages and other prepared meats	2013	82.8	84.1	82.0	82.9	-	60.8	61.9	60.6	61.3	-
Poultry dressing plants	2016	164.7	170.4	171.8	173.1	-	149.6	154.9	155.1	156.2	-
Dairy products	202	158.0	162.0	154.0	155.3	-	97.2	100.6	94.5	95.8	-
Cheese, natural and processed	2022	42.1	43.7	41.4	41.8	-	32.1	33.6	31.7	32.1	-
Fluid milk	2026	74.6	75.3	73.4	73.6	-	37.6	38.1	36.5	36.7	-
Preserved fruits and vegetables	203	231.7	252.4	231.2	232.9	-	186.6	206.6	189.2	190.2	-
Canned specialties	2032	23.1	23.0	23.0	22.7	-	16.5	16.6	17.4	17.2	-
Canned fruits and vegetables	2033	72.7	80.7	68.9	71.4	-	59.4	66.9	57.1	59.1	-
Frozen fruits and vegetables	2037	45.8	54.2	50.2	49.2	-	39.4	47.9	43.5	42.4	-
Grain mill products	204	124.7	127.4	130.9	130.0	-	87.0	89.0	90.8	90.2	-
Flour and other grain mill products	2041	22.0	22.6	24.5	24.4	-	15.0	15.5	16.1	15.9	-
Prepared feeds, nec	2048	42.0	42.8	42.7	42.7	-	26.6	27.1	27.2	27.2	-
Bakery products	205	200.4	203.6	200.1	199.3	-	122.5	125.6	123.6	123.2	-
Bread, cake, and related products	2051	156.2	157.8	154.4	153.9	-	89.2	90.5	88.1	87.9	-
Cookies and crackers	2052	44.2	45.8	45.7	45.4	-	33.3	35.1	35.5	35.3	-
Sugar and confectionery products	206	91.7	93.0	94.6	95.5	-	70.1	71.1	72.3	73.5	-
Cane and beet sugar	2061-3	17.1	16.7	17.2	16.9	-	12.9	12.5	13.1	12.9	-
Confectionery products	2065	53.4	54.8	55.8	56.6	-	43.1	44.4	44.9	45.9	-
Fats and oils	207	31.8	31.8	31.5	30.9	-	23.1	23.2	23.0	22.3	-
Beverages	208	199.1	203.9	191.6	192.5	-	84.8	87.5	80.0	79.7	-
Malt beverages	2082	41.0	41.9	40.6	39.8	-	24.9	25.7	24.6	23.9	-
Bottled and canned soft drinks	2086	113.0	115.6	110.2	111.6	-	37.5	38.8	35.9	36.4	-
Misc. food and kindred products	209	165.2	172.4	163.1	167.3	-	123.1	129.6	121.1	124.2	-
Tobacco manufactures	21	49.2	49.4	46.3	46.3	46.4	35.2	35.3	33.6	33.5	33.3
Cigarettes	211	38.5	38.8	36.1	36.1	-	27.8	28.1	27.1	26.9	-
Textile mill products	22	728.5	733.0	710.4	706.2	711.4	630.3	633.8	611.2	607.0	612.5
Weaving mills, cotton	221	96.2	96.3	92.8	91.8	-	86.3	86.6	83.6	82.7	-
Weaving mills, synthetics	222	90.3	91.2	88.5	87.8	-	80.2	80.8	78.1	77.2	-
Weaving and finishing mills, wool	223	19.7	19.7	17.9	18.0	-	16.0	15.9	14.4	14.4	-
Narrow fabric mills	224	24.5	24.9	24.2	24.1	-	21.0	21.1	20.3	20.1	-
Knitting mills	225	212.2	214.2	204.9	204.9	-	187.3	188.8	178.9	178.7	-
Women's hosiery, except socks	2251	33.5	33.4	32.7	32.5	-	30.2	30.0	29.2	29.0	-
Hosiery, nec	2252	37.0	37.6	36.8	36.5	-	33.6	34.1	33.0	32.7	-
Knit outerwear mills	2253	70.8	71.5	66.8	67.3	-	63.2	63.7	58.6	59.0	-
Knit underwear mills	2254	25.1	25.4	23.6	23.4	-	21.1	21.4	20.1	20.0	-
Circular knit fabric mills	2257	27.0	27.4	27.0	27.0	-	23.6	23.9	23.3	23.4	-
Textile finishing, except wool	226	61.5	62.3	61.6	61.4	-	50.7	51.2	50.1	49.8	-
Finishing plants, cotton	2261	25.6	25.9	26.7	26.6	-	21.0	21.2	21.4	21.3	-
Finishing plants, synthetics	2262	21.8	22.1	21.4	21.5	-	17.6	17.8	17.2	17.2	-
Floor covering mills	227	61.6	62.9	64.7	64.3	-	50.1	51.3	53.2	52.8	-
Yarn and thread mills	228	106.4	105.5	101.2	100.1	-	95.3	94.7	90.6	89.9	-
Yarn mills, except wool	2281	80.0	79.5	76.1	75.3	-	72.1	71.9	68.4	67.9	-
Throwing and winding mills	2282	14.6	14.6	13.6	13.4	-	13.0	13.0	12.0	11.9	-
Miscellaneous textile goods	229	56.1	56.0	54.6	53.8	-	43.4	43.4	42.0	41.4	-
Apparel and other textile products	23	1,099.5	1,104.2	1,057.4	1,052.1	1,053.4	928.5	932.0	887.4	883.5	885.1
Men's and boys' suits and coats	231	57.6	57.0	50.8	50.5	-	49.5	49.0	42.7	42.3	-
Men's and boys' furnishings	232	301.2	303.6	291.5	287.8	-	260.5	262.2	251.4	248.4	-
Men's and boys' shirts and nightwear	2321	75.1	75.9	72.6	71.8	-	64.3	65.3	62.2	61.8	-
Men's and boys' separate trousers	2327	50.0	50.1	45.5	45.1	-	43.2	43.2	39.2	38.9	-
Men's and boys' work clothing	2328	92.2	93.2	90.0	88.2	-	80.9	81.6	78.6	76.9	-
Women's and misses' outerwear	233	339.2	340.4	318.1	316.2	-	284.1	285.5	265.1	263.8	-
Women's and misses' blouses and waists	2331	42.6	42.9	38.8	38.5	-	35.2	35.3	31.7	31.5	-
Women's and misses' dresses	2335	75.6	77.2	71.2	70.8	-	62.9	64.3	58.6	57.9	-
Women's and misses' suits and coats	2337	38.6	39.9	36.3	36.8	-	32.2	33.4	29.8	30.2	-
Women's and misses' outerwear, nec	2339	182.4	180.4	171.8	170.1	-	153.8	152.5	145.0	144.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^b	May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^b
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	70.4	70.2	64.8	64.6	-	58.3	57.9	53.5	53.4	-
Women's and children's underwear	2341	56.4	56.3	52.0	51.5	-	48.5	48.3	44.9	44.5	-
Brassieres and allied garments	2342	14.0	13.9	12.8	13.1	-	9.8	9.6	8.6	8.9	-
Children's outerwear	236	56.8	58.0	55.5	56.4	-	47.8	48.8	46.6	47.9	-
Children's dresses and blouses	2361	22.5	22.6	21.1	21.6	-	19.6	19.7	18.2	18.9	-
Misc. apparel and accessories	238	44.5	45.1	43.1	42.9	-	36.9	37.2	35.5	35.0	-
Misc. fabricated textile products	239	210.7	211.0	213.9	213.9	-	175.8	176.0	176.3	176.4	-
Curtains and draperies	2391	26.3	26.8	25.7	25.7	-	21.9	22.4	21.3	21.2	-
House furnishings, nec	2392	55.6	55.4	57.5	57.1	-	46.8	46.6	47.5	47.5	-
Automotive and apparel trimmings	2396	44.6	44.2	46.8	47.3	-	37.9	37.7	38.8	39.2	-
Paper and allied products	26	694.6	703.5	694.9	695.3	703.9	523.1	530.9	524.2	524.3	532.5
Paper and pulp mills	261,2,6	193.3	197.0	194.2	193.9	-	147.0	150.3	147.8	147.5	-
Paper mills, except building paper	262	173.0	176.5	174.0	173.6	-	131.0	134.0	131.6	131.4	-
Paperboard mills	263	52.6	53.8	51.9	52.4	-	40.3	41.3	39.7	39.9	-
Misc. converted paper products	264	238.5	240.5	238.9	239.4	-	173.2	174.8	174.7	175.1	-
Paper coating and glazing	2641	59.8	61.3	59.3	59.4	-	34.4	35.6	34.8	34.7	-
Envelopes	2642	26.8	26.8	26.5	26.4	-	20.8	20.7	20.4	20.4	-
Bags, except textile bags	2643	52.8	53.0	53.2	52.7	-	41.2	41.6	41.3	41.0	-
Paperboard containers and boxes	265	210.2	212.2	209.9	209.6	-	162.6	164.5	162.0	161.8	-
Folding paperboard boxes	2651	46.7	47.0	46.2	45.9	-	37.3	37.6	36.9	36.7	-
Corrugated and solid fiber boxes	2653	113.7	114.7	114.5	114.2	-	85.3	86.3	85.9	85.6	-
Sanitary food containers	2654	22.6	23.1	22.4	22.7	-	19.0	19.5	18.8	19.1	-
Printing and publishing	27	1,601.8	1,610.4	1,629.2	1,627.6	1,634.6	892.0	892.9	906.7	903.8	908.0
Newspapers	271	475.4	479.0	480.4	481.8	-	167.9	168.4	166.7	167.9	-
Periodicals	272	134.6	135.4	139.3	139.4	-	47.9	48.0	51.0	51.0	-
Books	273	123.0	122.3	124.1	123.3	-	65.6	64.4	67.2	65.6	-
Book publishing	2731	91.1	90.5	92.1	91.6	-	40.2	39.2	41.0	39.7	-
Book printing	2732	31.9	31.8	32.0	31.7	-	25.4	25.2	26.2	25.9	-
Miscellaneous publishing	274	82.3	82.8	84.5	83.7	-	42.1	41.8	43.4	42.2	-
Commercial printing	275	571.8	573.6	583.5	582.1	-	415.6	415.3	424.0	423.2	-
Commercial printing, letterpress	2751	176.6	178.0	179.6	179.4	-	127.1	127.9	128.8	128.4	-
Commercial printing, lithographic	2752	367.1	368.2	376.0	375.1	-	265.9	265.4	273.1	273.0	-
Manifold business forms	276	49.1	49.3	48.1	47.6	-	33.3	33.4	33.3	33.0	-
Blankbooks and bookbinding	278	80.7	82.1	81.8	82.0	-	62.8	63.9	63.1	63.3	-
Printing trade services	279	60.5	61.2	61.0	61.1	-	44.3	44.9	44.7	44.2	-
Chemicals and allied products	28	1,092.2	1,103.4	1,103.1	1,106.2	1,115.2	612.5	621.6	612.3	613.5	618.9
Industrial inorganic chemicals	281	134.5	135.3	137.1	137.2	-	68.9	69.8	69.4	69.1	-
Industrial inorganic chemicals, nec	2819	90.5	91.0	92.4	92.7	-	48.1	48.3	48.7	48.8	-
Plastics materials and synthetics	282	186.3	189.0	189.1	189.6	-	122.2	124.0	123.3	123.9	-
Plastics materials and resins	2821	86.5	88.3	88.0	88.3	-	51.3	52.1	52.2	52.6	-
Organic fibers, noncellulosic	2824	70.4	71.1	71.0	71.1	-	50.1	50.9	50.1	50.2	-
Drugs	283	240.1	243.2	247.0	247.4	-	104.2	107.5	110.2	110.5	-
Pharmaceutical preparations	2834	197.8	200.3	203.1	203.2	-	85.5	88.7	91.8	92.0	-
Soap, cleaners, and toilet goods	284	162.4	163.8	158.6	160.1	-	103.2	104.1	97.6	98.8	-
Soap and other detergents	2841	43.6	44.2	43.3	43.7	-	27.3	27.5	27.5	28.0	-
Polishing, sanitation, and finishing preparations	2842,3	46.3	46.0	47.2	47.4	-	26.5	26.0	25.6	25.8	-
Toilet preparations	2844	72.5	73.6	68.1	69.0	-	49.4	50.6	44.5	45.0	-
Paints and allied products	285	63.3	64.0	63.1	63.6	-	31.8	32.8	31.8	32.3	-
Industrial organic chemicals	286	149.5	151.2	152.4	152.8	-	87.5	88.4	85.6	84.9	-
Cyclic crudes and intermediates	2865	30.6	30.9	31.6	31.7	-	18.9	19.1	18.9	18.9	-
Gum, wood, and industrial organic chemicals, nec	2861,9	118.9	120.3	120.8	121.1	-	68.6	69.3	66.7	66.0	-
Agricultural chemicals	287	54.8	54.5	54.8	54.6	-	34.6	34.0	34.4	34.0	-
Miscellaneous chemical products	289	101.3	102.4	101.0	100.9	-	60.1	61.0	60.0	60.0	-
Petroleum and coal products	29	162.9	165.7	163.6	166.2	168.4	106.5	108.9	107.1	109.8	110.8
Petroleum refining	291	121.9	123.8	123.6	123.9	-	77.5	78.9	79.3	79.9	-
Paving and roofing materials	295	28.1	28.8	26.8	28.9	-	21.7	22.6	20.4	22.3	-

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				
		May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P	May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P
Nondurable goods—Continued											
Rubber and misc. plastics products	30	844.3	846.8	830.3	828.6	836.4	661.0	661.4	644.2	642.9	650.3
Tires and inner tubes	301	85.3	86.0	85.9	83.6	-	64.2	64.4	63.3	61.7	-
Rubber and plastics footwear	302	10.9	11.0	10.9	10.9	-	8.9	9.0	8.8	8.8	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	27.7	27.9	26.9	26.0	-	20.9	20.9	20.0	19.1	-
Fabricated rubber products, nec	306	100.7	100.7	95.1	96.0	-	77.7	77.4	71.9	72.8	-
Miscellaneous plastics products	307	619.7	621.2	611.5	612.1	-	489.3	489.7	480.2	480.5	-
Leather and leather products	31	142.2	143.6	133.8	133.9	134.4	117.9	119.1	111.0	110.9	110.8
Leather tanning and finishing	311	14.4	14.5	14.6	14.7	-	12.1	12.3	12.2	12.3	-
Footwear, except rubber	314	80.6	81.7	75.2	75.2	-	68.8	69.6	64.1	64.2	-
Men's footwear, except athletic	3143	35.5	36.0	32.8	32.5	-	28.9	29.2	26.8	26.6	-
Women's footwear, except athletic	3144	27.8	28.1	26.4	26.6	-	24.6	25.0	23.3	23.5	-
Luggage	316	11.8	12.1	11.5	11.3	-	8.5	8.8	8.3	8.1	-
Handbags and personal leather goods	317	16.1	15.9	13.7	13.7	-	12.5	12.5	10.8	10.7	-
Transportation and public utilities		5,699	5,753	5,844	5,896	5,948	4,752	4,796	4,878	4,929	4,980
Transportation		3,487	3,524	3,635	3,681	3,712	-	-	-	-	-
Railroad transportation	40	299.1	299.7	285.8	288.2	-	-	-	-	-	-
Class I railroads ²	4011	255.6	256.0	241.7	243.7	-	-	-	-	-	-
Local and interurban passenger transit	41	344.0	328.1	348.4	358.8	-	316.4	300.6	317.0	327.9	-
Local and suburban transportation	411	129.5	130.9	137.6	138.9	-	118.0	118.7	123.6	125.0	-
Taxicabs	412	34.8	34.2	34.9	34.7	-	-	-	-	-	-
Intercity highway transportation	413	29.6	29.7	21.4	23.6	-	26.5	26.9	17.9	20.2	-
School buses	415	117.8	101.2	122.2	127.4	-	-	-	-	-	-
Trucking and warehousing	42	1,637.1	1,670.2	1,678.0	1,700.6	-	1,427.8	1,459.3	1,460.4	1,483.4	-
Trucking and trucking terminals	421,3	1,519.9	1,551.4	1,556.1	1,580.0	-	1,329.8	1,360.5	1,358.9	1,383.4	-
Public warehousing	422	117.2	118.8	121.9	120.6	-	98.0	98.8	101.5	100.0	-
Water transportation	44	181.3	184.2	167.5	169.2	-	-	-	-	-	-
Local water transportation	445	30.1	32.5	30.5	32.0	-	-	-	-	-	-
Water transportation services	446	101.1	100.5	88.3	87.2	-	-	-	-	-	-
Transportation by air	45	668.0	678.3	774.1	781.9	-	-	-	-	-	-
Air transportation	451,2	573.0	581.9	668.4	675.9	-	-	-	-	-	-
Air transportation services	458	95.0	96.4	105.7	106.0	-	-	-	-	-	-
Pipe lines, except natural gas	46	18.4	19.2	19.3	19.4	-	13.0	13.8	14.0	14.1	-
Transportation services	47	339.3	343.8	362.2	363.2	-	-	-	-	-	-
Freight forwarding	471	75.0	75.4	77.7	77.7	-	-	-	-	-	-
Communication and public utilities		2,212	2,229	2,209	2,215	2,236	-	-	-	-	-
Communication	48	1,279.3	1,284.3	1,265.6	1,268.9	-	974.1	977.8	969.3	971.4	-
Telephone communication	481	884.0	887.7	859.2	862.5	-	654.1	656.7	641.4	643.1	-
Radio and television broadcasting	483	244.5	245.1	247.3	247.7	-	202.1	202.6	204.2	204.7	-
Radio broadcasting	4832	121.8	122.2	122.9	122.7	-	-	-	-	-	-
Television broadcasting	4833	122.7	122.9	124.4	125.0	-	-	-	-	-	-
Electric, gas, and sanitary services	49	933.0	944.4	943.0	946.5	-	736.5	746.9	745.0	748.7	-
Electric services	491	449.5	453.3	447.7	448.4	-	343.9	347.4	345.0	345.8	-
Gas production and distribution	492	166.0	169.2	168.8	169.6	-	130.5	133.3	131.7	132.6	-
Combination utility services	493	193.1	195.0	192.8	193.5	-	156.7	158.5	155.6	156.3	-
Sanitary services	495	94.8	96.8	103.9	105.1	-	82.3	83.9	89.6	90.7	-
Wholesale trade		6,217	6,266	6,317	6,343	6,390	5,007	5,051	5,070	5,092	5,139
Durable goods	50	3,685	3,711	3,748	3,756	3,778	2,945	2,968	2,985	2,990	-
Motor vehicles and automotive equipment	501	437.6	439.9	434.1	435.1	-	354.0	356.4	350.2	350.8	-
Automobiles and other motor vehicles	5012	123.4	123.7	123.0	122.3	-	-	-	-	-	-
Automotive parts and supplies	5013	283.7	285.3	280.3	281.8	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P	May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P
Wholesale trade—Continued											
Durable goods—Continued											
Furniture and home furnishings	502	154.9	155.8	153.8	153.3	-	125.2	126.1	123.9	123.5	-
Furniture	5021	72.3	72.4	69.9	69.5	-	-	-	-	-	-
Home furnishings	5023	82.6	83.4	83.9	83.8	-	-	-	-	-	-
Lumber and construction materials	503	235.7	239.6	242.9	246.9	-	193.5	196.9	198.6	201.9	-
Lumber, plywood, and millwork	5031	122.0	123.9	127.0	128.2	-	-	-	-	-	-
Construction materials, nec	5039	113.7	115.7	115.9	118.7	-	-	-	-	-	-
Sporting goods, toys, and hobby goods	504	97.7	99.1	97.3	96.8	-	78.1	79.9	77.4	76.9	-
Metals and minerals, except petroleum	505	146.6	146.2	143.5	143.3	-	116.1	116.1	113.8	113.7	-
Electrical goods	506	521.8	524.9	547.3	548.9	-	398.3	399.4	414.8	415.4	-
Electrical apparatus and equipment	5063	273.1	275.8	290.1	291.8	-	-	-	-	-	-
Electrical appliances, TV and radios	5064	68.4	68.3	69.4	69.0	-	-	-	-	-	-
Electronic parts and equipment	5065	180.3	180.8	187.8	188.1	-	-	-	-	-	-
Hardware, plumbing, and heating equipment	507	284.5	285.6	280.8	281.1	-	230.3	231.9	226.0	226.5	-
Hardware	5072	98.1	98.4	95.0	95.0	-	-	-	-	-	-
Plumbing and hydronic heating supplies	5074	117.9	117.6	116.2	116.3	-	-	-	-	-	-
Machinery, equipment, and supplies	508	1,569.8	1,579.6	1,609.0	1,610.9	-	1,259.2	1,267.3	1,288.4	1,288.9	-
Commercial machines and equipment	5081	556.8	558.6	561.9	559.6	-	-	-	-	-	-
Construction and mining machinery	5082	85.5	86.7	88.8	88.6	-	-	-	-	-	-
Farm machinery and equipment	5083	124.8	127.1	129.0	130.5	-	-	-	-	-	-
Industrial machinery and equipment	5084	347.3	349.3	358.7	359.8	-	-	-	-	-	-
Industrial supplies	5085	145.9	147.3	151.4	151.8	-	-	-	-	-	-
Professional equipment and supplies	5086	179.7	179.1	183.2	183.8	-	-	-	-	-	-
Miscellaneous durable goods	509	236.6	240.0	239.5	239.8	-	190.7	193.8	192.3	192.0	-
Scrap and waste materials	5093	112.1	113.8	113.1	113.5	-	-	-	-	-	-
Nondurable goods	51	2,532	2,555	2,569	2,587	2,612	2,062	2,083	2,085	2,102	-
Paper and paper products	511	226.2	229.9	231.1	231.2	-	182.4	184.9	183.8	184.3	-
Drugs, proprietaries, and sundries	512	186.6	188.5	190.6	191.8	-	156.5	158.4	159.4	160.2	-
Apparel, piece goods, and notions	513	198.3	200.7	203.6	203.0	-	153.1	155.0	157.6	157.5	-
Groceries and related products	514	835.4	845.5	840.8	851.1	-	704.4	715.3	703.7	712.5	-
Groceries, general line	5141	271.8	274.2	278.2	280.8	-	-	-	-	-	-
Meats and meat products	5147	66.8	67.5	66.1	65.9	-	-	-	-	-	-
Fresh fruits and vegetables	5148	103.6	106.6	102.2	108.2	-	-	-	-	-	-
Chemicals and allied products	516	131.1	132.5	130.4	130.5	-	94.7	96.1	95.3	95.8	-
Petroleum and petroleum products	517	208.2	209.7	207.3	208.6	-	162.8	164.9	164.2	165.4	-
Petroleum bulk stations and terminals	5171	87.5	88.5	88.1	88.9	-	-	-	-	-	-
Petroleum products, nec	5172	120.7	121.2	119.2	119.7	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	152.7	156.2	156.1	158.0	-	125.1	128.0	127.6	129.1	-
Beer and ale	5181	97.3	100.5	99.2	100.9	-	-	-	-	-	-
Wines and distilled beverages	5182	55.4	55.7	56.9	57.1	-	-	-	-	-	-
Miscellaneous nondurable goods	519	474.3	474.6	492.2	497.3	-	385.8	385.5	398.7	403.2	-
Farm supplies	5191	166.5	162.1	174.0	175.1	-	-	-	-	-	-
Retail trade		19,528	19,727	19,594	19,825	19,996	17,280	17,473	17,300	17,521	17,676
Building materials and garden supplies	52	789.5	797.5	783.3	801.5	-	656.3	663.1	648.5	665.3	-
Lumber and other building materials	521	431.7	439.4	425.9	433.9	-	364.4	371.5	357.6	365.0	-
Hardware stores	525	168.7	171.2	173.0	175.8	-	139.8	141.8	142.3	145.0	-
General merchandise stores	53	2,416.3	2,432.9	2,366.9	2,373.9	2,381.8	2,231.1	2,253.8	2,195.8	2,203.7	-
Department stores	531	1,994.8	2,010.6	1,967.0	1,968.7	-	1,852.5	1,874.0	1,837.5	1,840.6	-
Variety stores	533	234.9	233.9	222.1	223.1	-	215.3	214.5	203.8	204.1	-
Misc. general merchandise stores	539	186.6	188.4	177.8	182.1	-	163.3	165.3	154.5	159.0	-
Food stores	54	3,228.5	3,271.9	3,338.4	3,359.3	3,400.0	2,971.2	3,012.6	3,064.9	3,084.1	-
Grocery stores	541	2,851.7	2,886.8	2,947.8	2,967.6	-	2,639.5	2,672.8	2,721.2	2,739.6	-
Meat markets and freezer provisioners	542	57.5	58.1	58.9	57.0	-	-	-	-	-	-
Dairy products stores	545	32.3	34.8	29.8	30.4	-	-	-	-	-	-
Retail bakeries	546	175.7	178.2	179.6	180.9	-	158.1	160.6	160.2	161.3	-
Automotive dealers and service stations	55	2,162.9	2,176.2	2,163.9	2,181.6	2,187.1	1,809.1	1,820.1	1,798.6	1,816.0	-
New and used car dealers	551,2	1,045.4	1,045.5	1,030.7	1,032.1	-	868.4	868.8	851.2	852.5	-
Auto and home supply stores	553	353.1	357.8	368.1	370.3	-	283.2	287.1	294.3	296.7	-
Gasoline service stations	554	643.3	647.7	638.5	646.3	-	559.7	563.0	551.9	560.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		May 1989	June 1989	Apr. 1990	May 1990 ^o	June 1990 ^o	May 1989	June 1989	Apr. 1990	May 1990 ^o	June 1990 ^o
Retail trade—Continued											
Apparel and accessory stores	56	1,170.6	1,184.0	1,140.8	1,132.6	-	981.4	993.8	952.4	945.3	-
Men's and boys' clothing and furnishings	561	105.8	105.9	100.3	99.2	-	85.1	85.0	79.9	79.2	-
Women's ready-to-wear stores	562	416.5	419.4	395.0	393.8	-	348.4	350.7	327.4	325.9	-
Family clothing stores	565	270.7	279.3	262.9	262.1	-	233.3	241.4	225.7	225.9	-
Shoe stores	566	229.3	229.3	232.1	226.7	-	189.3	189.9	192.4	187.2	-
Furniture and home furnishings stores	57	802.6	804.5	803.2	804.8	-	656.9	659.3	657.1	657.0	-
Furniture and home furnishings stores	571	470.2	473.5	470.0	472.6	-	383.0	384.5	381.8	384.2	-
Furniture stores	5712	290.1	291.8	290.6	290.7	-	-	-	-	-	-
Household appliance stores	572	77.3	77.5	70.9	70.1	-	64.4	64.5	58.2	57.8	-
Radio, television, and music stores	573	255.1	253.5	262.3	262.1	-	209.5	210.3	217.1	215.0	-
Radio and television stores	5732	177.2	176.9	182.0	181.6	-	-	-	-	-	-
Music stores	5733	77.9	76.6	80.3	80.5	-	-	-	-	-	-
Eating and drinking places	58	6,462.2	6,572.0	6,474.8	6,619.9	6,730.0	5,880.6	5,986.7	5,875.2	6,013.7	-
Miscellaneous retail	59	2,495.5	2,488.4	2,522.2	2,551.5	-	2,093.1	2,083.4	2,107.9	2,136.1	-
Drug stores and proprietary stores	591	602.5	605.5	615.2	617.9	-	510.8	513.6	516.3	518.9	-
Liquor stores	592	124.0	125.7	124.8	125.3	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	873.1	881.8	886.0	892.2	-	725.9	733.1	734.1	739.7	-
Sporting goods and bicycle shops	5941	158.6	160.7	164.1	165.5	-	-	-	-	-	-
Book stores	5942	90.5	87.3	95.0	95.4	-	-	-	-	-	-
Stationery stores	5943	85.1	85.1	85.8	85.1	-	-	-	-	-	-
Jewelry stores	5944	160.4	160.7	159.6	160.0	-	-	-	-	-	-
Gift, novelty, and souvenir shops	5947	186.4	196.3	184.1	190.9	-	-	-	-	-	-
Sewing, needlework, and piece goods	5949	64.2	64.0	65.5	64.8	-	-	-	-	-	-
Nonstore retailers	596	261.0	258.5	248.3	248.5	-	230.7	228.4	217.5	218.3	-
Mail order houses	5961	127.7	125.5	120.0	119.1	-	-	-	-	-	-
Merchandising machine operators	5962	85.7	85.5	84.0	84.9	-	-	-	-	-	-
Fuel and ice dealers	598	115.5	115.5	119.1	117.4	-	95.9	95.9	99.3	97.4	-
Retail stores, nec	599	435.3	415.4	435.0	455.6	-	360.4	340.4	361.6	380.9	-
Finance, insurance, and real estate³		6,790	6,878	6,891	6,928	7,003	4,913	4,997	5,002	5,036	5,114
Finance		3,313	3,343	3,356	3,362	3,386	-	-	-	-	-
Banking	60	1,762.2	1,783.5	1,794.9	1,801.4	-	1,251.9	1,272.4	1,277.4	1,281.2	-
Commercial and stock savings banks	602	1,563.8	1,581.1	1,573.9	1,577.6	-	1,108.0	1,125.1	1,118.5	1,120.4	-
State banks, Federal Reserve	6022	314.2	315.2	316.1	317.9	-	-	-	-	-	-
State banks, not Federal Reserve	6023,4	365.2	371.1	368.9	369.4	-	-	-	-	-	-
Mutual savings banks	603	80.1	81.3	78.6	78.3	-	-	-	-	-	-
Credit agencies other than banks	61	904.4	909.4	906.0	904.0	-	675.4	681.7	683.1	683.8	-
Savings and loan associations	612	402.7	405.8	391.5	389.8	-	305.0	308.1	297.9	297.2	-
Federal savings and loan associations	6122	233.0	234.4	227.0	226.8	-	-	-	-	-	-
State associations, insured	6123	164.5	166.2	159.5	158.1	-	-	-	-	-	-
Personal credit institutions	614	265.3	266.9	271.7	272.0	-	206.0	207.6	210.4	211.2	-
Business credit institutions	615	65.9	67.1	71.2	71.2	-	-	-	-	-	-
Mortgage bankers and brokers	616	148.4	147.5	150.4	150.0	-	-	-	-	-	-
Security, commodity brokers, and services	62	436.2	438.0	430.6	431.4	-	-	-	-	-	-
Security brokers and dealers	621	338.4	338.7	325.3	325.1	-	-	-	-	-	-
Holding and other investment offices	67	209.8	212.1	224.4	225.4	-	-	-	-	-	-
Insurance		2,123	2,135	2,159	2,165	2,180	-	-	-	-	-
Insurance carriers	63	1,463.9	1,472.8	1,493.0	1,497.3	-	971.2	979.7	997.2	1,002.8	-
Life insurance	631	575.8	578.4	574.8	576.2	-	344.0	348.0	348.3	351.3	-
Medical service and health insurance	632	232.1	233.8	246.9	248.5	-	187.8	189.1	198.9	200.2	-
Fire, marine, and casualty insurance	633	545.0	548.5	553.5	554.1	-	354.8	357.1	358.6	359.4	-
Title insurance	636	58.4	58.8	64.1	64.7	-	-	-	-	-	-
Insurance agents, brokers, and service	64	659.3	662.2	666.0	668.1	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P	May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P
Finance, insurance, and real estate—Continued											
Real estate, and combined real estate, insurance, etc		1,354	1,400	1,376	1,401	1,437	-	-	-	-	-
Real estate	65	1,345.2	1,391.2	1,367.2	1,392.6	-	-	-	-	-	
Real estate operators and lessors	651	581.7	604.9	605.6	614.1	-	-	-	-	-	
Real estate agents and managers	653	547.7	562.7	548.4	553.7	-	-	-	-	-	
Subdividers and developers	655	183.8	191.0	178.8	190.3	-	-	-	-	-	
Combined real estate, insurance, etc	66	9.0	9.0	8.7	8.7	-	-	-	-	-	
Services		26,818	27,146	27,819	27,958	28,215	23,416	23,716	24,247	24,367	24,598
Hotels and other lodging places	70	1,598.4	1,690.8	1,580.6	1,619.6	-	-	-	-	-	
Hotels, motels, and tourist courts	701	1,551.2	1,619.1	1,528.8	1,562.1	-	1,379.5	1,444.9	1,354.5	1,384.7	
Personal services	72	1,179.8	1,181.1	1,279.3	1,203.1	-	-	-	-	-	
Laundry, cleaning, and garment services	721	412.4	415.1	413.6	418.9	-	366.4	369.3	366.9	372.1	
Photographic studios, portrait	722	56.7	58.1	59.1	60.8	-	-	-	-	-	
Beauty shops	723	367.9	370.9	373.9	373.7	-	328.2	331.0	333.2	333.0	
Funeral service and crematories	726	81.2	82.1	84.1	84.6	-	-	-	-	-	
Business services	73	5,758.5	5,827.8	5,848.2	5,910.4	5,962.6	4,906.1	4,970.4	4,959.5	5,017.7	
Advertising	731	255.1	259.8	260.0	260.4	-	188.1	192.3	187.6	186.8	
Advertising agencies	7311	184.7	188.9	186.9	186.8	-	-	-	-	-	
Credit reporting and collection	732	95.6	96.8	96.6	96.5	-	-	-	-	-	
Mailing, reproduction, and stenographic	733	238.1	241.0	268.2	271.2	-	-	-	-	-	
Services to buildings	734	812.4	817.9	803.3	809.5	-	735.8	740.9	726.1	731.7	
Personnel supply services	736	1,350.5	1,365.4	1,310.9	1,342.8	-	-	-	-	-	
Employment agencies	7361	218.5	217.7	211.4	212.0	-	-	-	-	-	
Temporary help supply services	7362	1,029.0	1,044.2	996.5	1,026.7	-	-	-	-	-	
Computer and data processing services	737	749.1	760.2	811.7	813.8	-	580.5	590.9	627.1	628.4	
Computer programming and software	7372	345.8	351.7	380.5	384.6	-	-	-	-	-	
Data processing services	7374	278.7	284.2	299.3	296.0	-	-	-	-	-	
Miscellaneous business services	739	2,244.3	2,273.2	2,283.5	2,302.0	-	-	-	-	-	
Research development laboratories, nec	7391	217.6	220.0	220.4	220.8	-	-	-	-	-	
Management and public relations	7392	553.1	556.7	558.8	564.4	-	-	-	-	-	
Detective and protective services	7393	472.3	476.2	477.5	479.0	-	-	-	-	-	
Equipment rental and leasing	7394	275.9	281.3	282.6	288.9	-	-	-	-	-	
Photofinishing laboratories	7395	80.6	82.2	79.1	81.0	-	-	-	-	-	
Auto repair, services, and garages	75	895.5	904.9	934.6	940.7	-	736.6	744.4	769.0	773.3	
Automotive rentals, without drivers	751	182.4	186.6	199.2	202.0	-	-	-	-	-	
Automotive repair shops	753	519.0	525.0	538.3	542.4	-	425.0	429.4	439.7	442.3	
Miscellaneous repair services	76	357.2	361.4	368.6	372.1	-	291.0	296.1	302.5	304.5	
Electrical repair shops	762	119.9	122.6	130.9	132.6	-	-	-	-	-	
Motion pictures	78	266.2	272.8	275.7	282.1	-	225.5	231.0	232.6	238.3	
Motion picture production and services	781	140.2	136.2	149.4	153.7	-	114.5	109.8	121.5	125.1	
Motion picture theaters	783	108.6	119.3	108.9	110.3	-	-	-	-	-	
Amusement and recreation services	79	1,006.4	1,122.5	974.1	1,035.6	-	878.2	989.8	843.4	901.3	
Health services	80	7,555.0	7,646.4	8,058.0	8,120.2	8,209.2	6,708.4	6,796.8	7,153.6	7,213.5	
Offices of physicians	801	1,195.0	1,204.9	1,286.6	1,301.3	-	977.9	986.4	1,045.8	1,060.9	
Offices of dentists	802	508.6	515.3	525.7	529.9	-	443.8	450.4	460.8	465.7	
Nursing and personal care facilities	805	1,369.3	1,388.2	1,447.4	1,458.7	-	1,236.8	1,254.7	1,307.3	1,317.9	
Skilled nursing care facilities	8051	948.9	961.8	1,002.7	1,009.9	-	-	-	-	-	
Nursing and personal care, nec	8059	420.4	426.4	444.7	448.8	-	-	-	-	-	
Hospitals	806	3,456.2	3,497.5	3,646.0	3,660.6	-	3,158.2	3,198.9	3,335.0	3,349.2	
General medical and surgical hospitals	8062	3,195.9	3,234.3	3,376.1	3,389.3	-	-	-	-	-	
Psychiatric hospitals	8063	96.7	97.5	98.6	98.9	-	-	-	-	-	
Specialty hospitals, excluding psychiatric	8069	163.6	165.7	171.3	172.4	-	-	-	-	-	
Medical and dental laboratories	807	167.6	170.4	185.2	188.1	-	-	-	-	-	
Outpatient care facilities	808	308.9	315.0	365.7	371.2	-	-	-	-	-	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		May 1989	June 1989	Apr. 1990	May 1990 ^p	June 1990 ^p	May 1989	June 1989	Apr. 1990	May 1990 ^p	June 1990 ^p
Services—Continued											
Legal services	81	882.0	913.2	923.5	925.9	-	733.7	760.1	762.5	765.0	-
Educational services	82	1,656.1	1,488.0	1,744.8	1,686.9	-	-	-	-	-	-
Elementary and secondary schools	821	411.2	393.1	414.2	415.0	-	-	-	-	-	-
Colleges and universities	822	1,005.2	857.4	1,083.7	1,024.4	-	-	-	-	-	-
Correspondence and vocational schools	824	105.6	104.1	103.5	103.2	-	-	-	-	-	-
Social services	83	1,738.7	1,733.2	1,856.8	1,873.1	-	-	-	-	-	-
Individual and family services	832	351.3	354.4	365.0	367.2	-	-	-	-	-	-
Job training and related services	833	242.4	253.1	245.8	246.6	-	-	-	-	-	-
Residential care	836	421.6	428.7	459.9	465.9	-	-	-	-	-	-
Museums, botanical and zoological gardens	84	53.9	56.2	52.7	54.7	-	-	-	-	-	-
Membership organizations	86	1,753.9	1,793.6	1,766.8	1,778.1	-	-	-	-	-	-
Business associations	861	99.2	102.2	100.7	101.7	-	-	-	-	-	-
Labor organizations	863	136.8	136.0	133.3	135.5	-	-	-	-	-	-
Civic and social associations	864	398.3	430.5	405.2	412.7	-	-	-	-	-	-
Miscellaneous services	89	1,441.7	1,460.9	1,514.4	1,484.7	-	1,151.6	1,169.0	1,197.8	1,170.1	-
Engineering and architectural services	891	750.6	768.2	766.4	769.3	-	620.1	636.6	631.8	634.6	-
Noncommercial research organizations	892	144.3	147.9	154.6	154.8	-	-	-	-	-	-
Accounting, auditing, and bookkeeping	893	512.9	510.0	553.8	522.2	-	392.0	389.2	421.6	391.4	-
Government		18,030	17,792	18,561	18,832	18,494	-	-	-	-	-
Federal Government⁴		3,005	3,025	3,149	3,354	3,293	-	-	-	-	-
Executive, by agency ⁴		2,945.3	2,964.4	3,088.6	-	-	-	-	-	-	-
Department of Defense		974.6	980.2	957.5	-	-	-	-	-	-	-
Postal Service ⁵		838.6	830.6	819.4	-	-	-	-	-	-	-
Other executive agencies		1,132.1	1,153.6	1,311.7	-	-	-	-	-	-	-
Legislative		38.0	39.2	37.5	-	-	-	-	-	-	-
Judicial		21.3	21.4	22.5	-	-	-	-	-	-	-
Federal government, by industry:											
Manufacturing activities		123.8	124.6	121.9	121.6	-	-	-	-	-	-
Shipbuilding and repairing	3731	74.3	74.3	72.0	71.6	-	-	-	-	-	-
Transportation and public utilities, except Postal											
Service		38.4	38.3	40.7	39.4	-	-	-	-	-	-
Services		435.0	436.7	432.5	435.8	-	-	-	-	-	-
Hospitals	806	248.9	249.6	252.2	252.2	-	-	-	-	-	-
State government		4,181	4,016	4,321	4,288	4,106	-	-	-	-	-
Hospitals	806	447.4	448.5	451.8	452.6	-	-	-	-	-	-
Education	82	1,688.5	1,481.2	1,772.5	1,719.4	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions		1,511.7	1,538.2	1,563.3	1,574.8	-	-	-	-	-	-
Local government		10,844	10,751	11,091	11,190	11,095	-	-	-	-	-
Transportation and public utilities		493.3	502.2	493.1	494.8	-	-	-	-	-	-
Hospitals	806	642.1	647.6	677.9	676.7	-	-	-	-	-	-
Education	82	6,174.2	5,882.4	6,308.8	6,337.1	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions		3,184.9	3,346.3	3,263.9	3,324.1	-	-	-	-	-	-

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 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990	Apr. 1990
Total	50,371	50,646	51,552	51,855	52,076
Total private	41,003	41,271	41,935	42,137	42,324
Goods-producing	7,106	7,121	7,046	7,041	7,044
Mining	97	97	99	99	100
Construction	558	568	576	579	582
Manufacturing	6,451	6,456	6,371	6,363	6,362
Durable goods	3,099	3,104	3,042	3,041	3,038
Lumber and wood products	124	125	120	121	122
Furniture and fixtures	167	168	163	163	163
Stone, clay, and glass products	122	123	120	120	120
Primary metal industries	108	108	105	105	106
Fabricated metal products	327	327	315	316	316
Machinery, except electrical	472	473	471	469	467
Electrical and electronic equipment	856	854	821	819	816
Transportation equipment	407	409	408	408	410
Instruments and related products	337	338	338	339	338
Miscellaneous manufacturing	179	181	180	181	180
Nondurable goods	3,352	3,352	3,329	3,322	3,324
Food and kindred products	509	509	517	514	515
Tobacco manufactures	18	17	17	16	15
Textile mill products	353	353	344	344	344
Apparel and other textile products	880	879	843	837	836
Paper and allied products	169	170	171	172	172
Printing and publishing	701	704	715	718	720
Chemicals and allied products	319	320	330	331	331
Petroleum and coal products	26	26	27	26	27
Rubber and misc. plastics products	293	292	284	286	287
Leather and leather products	83	83	79	79	78
Service-producing	43,265	43,525	44,506	44,814	45,032
Transportation and public utilities	1,622	1,628	1,694	1,701	1,704
Wholesale trade	1,859	1,867	1,912	1,922	1,923
Retail trade	10,067	10,182	10,151	10,174	10,292
Finance, insurance, and real estate	4,232	4,239	4,328	4,345	4,352
Services	16,117	16,234	16,804	16,954	17,009
Government	9,368	9,375	9,617	9,718	9,752
Federal	1,061	1,063	1,070	1,111	1,141
State	2,083	2,086	2,123	2,138	2,138
Local	6,224	6,226	6,424	6,469	6,473

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1988 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	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May ^P	June ^P
Total	108,607	108,767	108,887	109,096	109,171	109,452	109,570	109,931	110,304	110,427	110,401	110,757	110,797
Total private	90,884	91,016	91,083	91,230	91,328	91,622	91,699	91,975	92,302	92,313	92,187	92,281	92,373
Goods-producing	25,648	25,669	25,694	25,614	25,603	25,609	25,532	25,518	25,686	25,606	25,481	25,440	25,397
Mining	715	706	729	730	731	737	739	745	749	751	755	758	760
Oil and gas extraction	402	404	405	408	409	414	416	417	422	421	424	426	425
Construction	5,283	5,314	5,321	5,325	5,335	5,355	5,304	5,418	5,485	5,432	5,323	5,306	5,292
General building contractors	1,384	1,391	1,403	1,396	1,386	1,391	1,388	1,425	1,436	1,416	1,378	1,381	1,378
Manufacturing	19,650	19,649	19,644	19,559	19,537	19,517	19,489	19,355	19,452	19,423	19,403	19,376	19,345
Durable goods	11,567	11,549	11,551	11,480	11,457	11,439	11,409	11,287	11,398	11,385	11,350	11,340	11,322
Lumber and wood products	769	767	763	759	764	765	765	770	765	766	763	761	755
Furniture and fixtures	534	536	529	528	525	525	523	522	522	523	520	520	521
Stone, clay, and glass products	603	602	601	597	600	602	600	601	602	599	594	592	591
Primary metal industries	787	785	786	777	776	772	771	764	767	765	766	766	766
Blast furnaces and basic steel products	276	277	276	273	271	269	270	270	269	267	268	268	267
Fabricated metal products	1,449	1,446	1,443	1,438	1,434	1,430	1,426	1,407	1,419	1,420	1,424	1,422	1,416
Machinery, except electrical	2,151	2,154	2,152	2,147	2,139	2,146	2,145	2,143	2,140	2,133	2,124	2,123	2,116
Electrical and electronic equipment	2,041	2,040	2,034	2,023	2,018	2,012	1,992	1,989	1,991	1,990	1,981	1,980	1,974
Transportation equipment	2,062	2,046	2,068	2,038	2,031	2,020	2,022	1,920	2,021	2,022	2,015	2,012	2,020
Motor vehicles and equipment	861	844	873	843	833	824	825	726	825	824	821	817	823
Instruments and related products	779	781	782	780	779	778	774	776	776	775	774	772	773
Miscellaneous manufacturing	392	392	393	393	391	389	391	395	395	392	389	392	390
Nondurable goods	8,083	8,100	8,093	8,079	8,080	8,078	8,080	8,068	8,054	8,038	8,053	8,036	8,023
Food and kindred products	1,663	1,678	1,667	1,674	1,676	1,673	1,676	1,676	1,674	1,669	1,676	1,672	1,660
Tobacco manufactures	52	53	52	51	51	51	51	51	51	50	49	50	50
Textile mill products	729	730	727	723	724	721	719	718	714	711	712	706	707
Apparel and other textile products	1,093	1,094	1,095	1,088	1,084	1,084	1,081	1,073	1,063	1,054	1,055	1,049	1,044
Paper and allied products	697	701	700	697	697	697	697	697	699	699	699	697	697
Printing and publishing	1,607	1,609	1,611	1,612	1,612	1,617	1,621	1,624	1,625	1,626	1,628	1,629	1,631
Chemicals and allied products	1,096	1,091	1,097	1,095	1,096	1,098	1,103	1,104	1,106	1,106	1,106	1,107	1,106
Petroleum and coal products	163	163	163	163	164	164	163	163	165	165	165	165	165
Rubber and misc. plastics products	841	841	841	837	837	835	832	826	821	824	829	827	831
Leather and leather products	142	140	140	139	139	138	137	136	136	136	134	134	132
Service-producing	82,959	83,098	83,193	83,482	83,568	83,843	84,038	84,413	84,618	84,821	84,920	85,317	85,400
Transportation and public utilities	5,716	5,736	5,618	5,709	5,729	5,753	5,834	5,850	5,865	5,875	5,875	5,894	5,909
Transportation	3,500	3,524	3,539	3,546	3,566	3,592	3,613	3,635	3,649	3,660	3,657	3,677	3,686
Communication and public utilities	2,216	2,212	2,079	2,163	2,163	2,161	2,221	2,215	2,216	2,215	2,218	2,217	2,223
Wholesale trade	6,230	6,237	6,256	6,264	6,278	6,300	6,311	6,332	6,332	6,342	6,335	6,346	6,353
Durable goods	3,683	3,700	3,708	3,717	3,721	3,737	3,746	3,754	3,759	3,762	3,756	3,756	3,759
Nondurable goods	2,537	2,537	2,548	2,547	2,557	2,563	2,565	2,578	2,573	2,580	2,579	2,590	2,594
Retail trade	19,551	19,586	19,621	19,632	19,679	19,744	19,718	19,822	19,794	19,785	19,812	19,825	19,818
General merchandise stores	2,493	2,482	2,484	2,486	2,478	2,492	2,470	2,491	2,460	2,452	2,450	2,445	2,438
Food stores	3,262	3,274	3,293	3,294	3,321	3,334	3,341	3,361	3,361	3,363	3,379	3,380	3,390
Automotive dealers and service stations	2,155	2,155	2,152	2,157	2,169	2,169	2,163	2,170	2,172	2,174	2,173	2,177	2,168
Eating and drinking places	6,362	6,370	6,385	6,397	6,403	6,417	6,432	6,459	6,467	6,480	6,494	6,503	6,515
Finance, insurance, and real estate	6,808	6,815	6,836	6,852	6,851	6,871	6,885	6,896	6,916	6,922	6,921	6,929	6,933
Finance	3,320	3,324	3,336	3,343	3,345	3,357	3,360	3,353	3,366	3,361	3,369	3,369	3,366
Insurance	2,129	2,131	2,137	2,137	2,134	2,138	2,144	2,152	2,155	2,162	2,161	2,165	2,173
Real estate	1,359	1,360	1,363	1,372	1,372	1,376	1,381	1,391	1,395	1,399	1,391	1,395	1,394
Services	26,931	26,973	27,058	27,159	27,188	27,345	27,419	27,557	27,709	27,783	27,763	27,847	27,963
Business services	5,799	5,786	5,800	5,836	5,827	5,852	5,852	5,885	5,899	5,902	5,889	5,922	5,927
Health services	7,616	7,648	7,695	7,739	7,778	7,839	7,884	7,934	7,981	8,033	8,074	8,136	8,176
Government	17,723	17,751	17,804	17,866	17,843	17,830	17,871	17,956	18,002	18,114	18,214	18,476	18,424
Federal	2,995	3,000	2,999	2,996	2,984	2,982	2,974	2,998	3,006	3,088	3,155	3,345	3,264
State	4,136	4,145	4,154	4,182	4,153	4,162	4,156	4,178	4,197	4,205	4,207	4,225	4,229
Local	10,592	10,606	10,651	10,688	10,706	10,686	10,741	10,780	10,799	10,821	10,852	10,906	10,931

^P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988

benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 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	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Total	50,515	50,670	50,894	51,023	51,124	51,247	51,212	51,375	51,476	51,643	51,771	51,881	51,963
Total private	41,418	41,530	41,717	41,794	41,832	41,950	41,957	42,125	42,191	42,312	42,409	42,459	42,490
Goods-producing	7,161	7,166	7,165	7,176	7,167	7,147	7,142	7,138	7,130	7,100	7,107	7,091	7,086
Mining	97	97	99	98	99	98	98	97	98	99	100	99	100
Construction	573	577	577	577	580	581	586	584	587	591	593	592	588
Manufacturing	6,491	6,492	6,489	6,501	6,488	6,468	6,458	6,457	6,445	6,410	6,414	6,400	6,398
Durable goods	3,111	3,108	3,103	3,103	3,099	3,084	3,072	3,071	3,064	3,036	3,052	3,049	3,044
Lumber and wood products	126	126	125	124	124	123	123	123	124	124	123	123	123
Furniture and fixtures	167	167	167	169	165	165	163	165	163	163	163	162	162
Stone, clay, and glass products	124	124	123	123	123	122	123	124	123	122	122	121	121
Primary metal industries	108	108	108	107	108	107	106	106	106	104	105	105	106
Fabricated metal products	327	327	326	327	325	324	322	321	319	314	316	317	317
Machinery, except electrical	471	472	474	475	475	474	472	473	473	470	470	469	466
Electrical and electronic equipment	859	853	850	847	846	840	835	832	825	824	823	823	821
Transportation equipment	409	410	409	407	410	406	407	408	411	393	408	408	409
Instruments and related products	338	339	338	341	340	340	340	339	338	338	338	339	339
Miscellaneous manufacturing	182	182	183	183	183	183	181	180	182	184	184	182	180
Nondurable goods	3,380	3,384	3,386	3,398	3,389	3,384	3,386	3,386	3,381	3,374	3,362	3,351	3,354
Food and kindred products	537	537	540	551	540	549	548	548	546	548	543	542	543
Tobacco manufactures	18	17	17	18	18	17	17	17	17	17	17	17	16
Textile mill products	353	353	353	353	352	350	352	350	348	347	346	344	344
Apparel and other textile products	875	873	871	870	869	863	860	860	858	852	841	833	833
Paper and allied products	171	171	172	173	174	172	173	172	172	172	174	173	174
Printing and publishing	702	706	708	709	710	708	709	713	715	715	716	717	718
Chemicals and allied products	322	325	325	324	326	326	327	328	331	331	333	333	333
Petroleum and coal products	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Rubber and misc. plastics products	292	292	291	292	292	291	291	290	287	285	285	286	287
Leather and leather products	84	84	83	82	82	82	82	81	80	80	80	79	79
Service-producing	43,354	43,504	43,729	43,847	43,957	44,100	44,070	44,237	44,346	44,543	44,664	44,790	44,877
Transportation and public utilities	1,628	1,635	1,645	1,652	1,585	1,633	1,642	1,651	1,689	1,694	1,703	1,706	1,706
Wholesale trade	1,876	1,888	1,893	1,899	1,905	1,907	1,907	1,919	1,922	1,928	1,924	1,932	1,933
Retail trade	10,337	10,373	10,387	10,407	10,444	10,438	10,428	10,458	10,429	10,473	10,454	10,435	10,459
Finance, insurance, and real estate	4,247	4,257	4,271	4,278	4,292	4,310	4,308	4,319	4,330	4,343	4,350	4,358	4,365
Services	16,169	16,211	16,356	16,382	16,439	16,515	16,530	16,640	16,691	16,774	16,871	16,937	16,941
Government	9,097	9,140	9,177	9,229	9,292	9,297	9,255	9,250	9,285	9,331	9,362	9,422	9,473
Federal	1,064	1,070	1,070	1,071	1,070	1,067	1,064	1,064	1,062	1,074	1,076	1,114	1,143
State	2,023	2,034	2,043	2,048	2,050	2,063	2,045	2,050	2,042	2,055	2,067	2,076	2,076
Local	6,010	6,036	6,064	6,110	6,172	6,167	6,146	6,136	6,181	6,202	6,219	6,232	6,254

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 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 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	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May ^p	June ^p
Total private	73,555	73,670	73,741	73,837	73,897	74,174	74,224	74,472	74,700	74,724	74,611	74,681	74,793
Goods-producing	18,022	18,047	18,071	17,987	17,978	17,975	17,908	17,906	18,041	17,969	17,860	17,828	17,800
Mining	511	503	525	525	527	530	531	537	540	542	547	550	550
Construction	4,111	4,134	4,145	4,143	4,144	4,169	4,115	4,241	4,284	4,236	4,121	4,111	4,097
Manufacturing	13,400	13,410	13,401	13,319	13,307	13,276	13,262	13,128	13,217	13,191	13,192	13,167	13,153
Durable goods	7,706	7,697	7,696	7,632	7,615	7,594	7,579	7,456	7,564	7,559	7,545	7,534	7,532
Lumber and wood products	638	636	633	629	633	633	632	637	632	633	631	628	623
Furniture and fixtures	426	427	421	420	418	417	415	414	414	414	414	413	414
Stone, clay, and glass products	468	468	467	463	466	467	465	467	467	464	459	457	457
Primary metal industries	602	601	600	593	590	586	587	580	584	582	584	582	582
Blast furnaces and basic steel products	211	211	214	212	209	207	209	208	207	204	206	206	204
Fabricated metal products	1,074	1,073	1,069	1,062	1,061	1,056	1,055	1,035	1,046	1,046	1,052	1,049	1,046
Machinery, except electrical	1,303	1,309	1,304	1,299	1,293	1,300	1,299	1,300	1,299	1,292	1,288	1,288	1,285
Electrical and electronic equipment	1,198	1,199	1,195	1,189	1,184	1,181	1,170	1,169	1,170	1,175	1,171	1,169	1,167
Transportation equipment	1,284	1,270	1,291	1,262	1,255	1,243	1,244	1,136	1,236	1,241	1,237	1,237	1,243
Motor vehicles and equipment	667	650	677	648	638	629	631	531	630	630	626	625	630
Instruments and related products	429	431	430	431	431	429	427	429	428	426	427	428	433
Miscellaneous manufacturing	284	283	286	284	284	282	285	289	288	286	282	283	282
Nondurable goods	5,694	5,713	5,705	5,687	5,692	5,682	5,683	5,672	5,653	5,632	5,647	5,633	5,621
Food and kindred products	1,190	1,205	1,197	1,203	1,205	1,200	1,201	1,205	1,200	1,197	1,207	1,203	1,191
Tobacco manufactures	38	39	39	38	38	38	38	39	38	37	36	37	36
Textile mill products	630	631	627	623	625	622	621	618	614	611	612	607	609
Apparel and other textile products	922	922	922	917	914	913	912	903	895	884	885	880	876
Paper and allied products	525	528	528	524	526	526	526	526	527	525	528	527	527
Printing and publishing	892	893	894	892	892	896	900	903	905	905	903	903	907
Chemicals and allied products	616	614	617	614	617	617	619	618	617	614	614	614	612
Petroleum and coal products	107	107	107	107	107	107	106	106	108	108	108	109	108
Rubber and misc. plastics products	656	657	658	653	653	649	647	641	636	638	642	642	646
Leather and leather products	118	117	116	116	115	114	113	113	113	113	112	111	109
Service-producing	55,533	55,623	55,670	55,850	55,919	56,199	56,316	56,566	56,659	56,755	56,751	56,853	56,993
Transportation and public utilities	4,763	4,779	4,665	4,758	4,782	4,800	4,880	4,888	4,900	4,911	4,907	4,929	4,945
Wholesale trade	5,016	5,021	5,038	5,037	5,053	5,066	5,071	5,096	5,091	5,095	5,090	5,092	5,103
Retail trade	17,317	17,338	17,388	17,391	17,383	17,490	17,456	17,544	17,501	17,496	17,528	17,521	17,518
Finance, insurance, and real estate	4,933	4,944	4,954	4,969	4,972	4,985	4,995	5,016	5,032	5,039	5,027	5,041	5,048
Services	23,504	23,541	23,625	23,695	23,729	23,858	23,914	24,022	24,135	24,214	24,199	24,270	24,379

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 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

**ESTABLISHMENT DATA
DIFFUSION INDEXES
SEASONALLY ADJUSTED**

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

(Percent)

Time span	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Private nonagricultural payrolls, 349 industries ¹												
Over 1-month span:												
1988	60.7	63.5	63.0	62.8	61.3	67.2	63.6	58.0	55.4	63.9	68.2	64.6
1989	68.3	60.5	61.0	58.2	55.6	59.7	55.6	57.4	47.9	55.3	60.9	51.9
1990	58.5	57.9	52.3	47.9	^P 54.3	^P 46.8						
Over 3-month span:												
1988	64.8	65.6	69.5	70.2	71.1	71.9	71.2	64.2	65.3	70.1	73.4	74.6
1989	71.6	70.1	64.5	61.9	61.6	60.7	61.6	53.4	54.6	55.7	57.2	60.2
1990	58.2	58.9	51.9	^P 50.3	^P 48.3							
Over 6-month span:												
1988	69.9	70.2	71.5	73.9	73.9	69.1	70.2	74.6	73.5	73.9	74.5	75.8
1989	75.1	69.5	68.2	66.0	63.0	57.9	57.7	60.2	53.4	58.3	58.3	60.2
1990	55.7	^P 52.7	^P 52.6									
Over 12-month span:												
1988	76.2	76.1	74.8	74.6	75.8	74.9	78.1	75.5	75.5	74.8	74.9	74.1
1989	73.2	73.6	69.6	67.6	66.6	62.6	63.6	63.2	60.7	57.2	^P 57.0	^P 52.6
1990												
Manufacturing payrolls, 141 industries ¹												
Over 1-month span:												
1988	58.5	56.0	55.0	59.9	58.5	61.7	59.6	51.1	49.3	62.8	64.9	58.5
1989	62.4	53.5	53.2	49.6	46.8	48.6	49.6	45.4	34.8	52.1	48.2	44.7
1990	45.4	49.3	43.6	46.5	^P 44.3	^P 42.2						
Over 3-month span:												
1988	63.1	61.0	62.4	64.9	67.4	67.0	64.5	58.2	62.1	66.7	71.3	70.9
1989	67.4	63.8	55.7	51.8	49.3	46.6	47.9	34.0	41.8	41.5	46.5	41.1
1990	42.2	41.5	44.0	^P 39.4	^P 39.7							
Over 6-month span:												
1988	66.3	66.3	67.7	69.5	66.7	64.2	66.0	70.9	68.8	69.9	71.6	74.1
1989	69.5	58.5	55.7	52.8	48.9	39.0	40.1	41.8	34.4	37.9	40.8	43.6
1990	38.7	^P 35.5	^P 35.8									
Over 12-month span:												
1988	73.8	70.2	70.9	71.6	72.0	69.9	70.9	69.1	71.6	70.2	69.9	67.0
1989	63.1	63.8	57.1	53.5	49.6	42.9	43.3	42.2	37.6	37.6	^P 35.1	^P 30.9
1990												

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 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1988) and all seasonally adjusted data (beginning January 1985) are subject to revision.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Alabama	1,593.6	1,601.2	1,606.2	11.6	11.8	12.0	76.8	77.1	77.7
Birmingham	409.6	415.1	416.9	5.5	5.5	5.6	22.9	22.8	22.9
Huntsville	131.3	133.8	134.7	(¹)	(¹)	(¹)	5.0	5.0	5.1
Mobile	169.7	172.6	172.7	(¹)	(¹)	(¹)	10.6	10.7	10.5
Montgomery	132.1	134.2	134.4	(¹)	(¹)	(¹)	7.4	6.9	7.0
Tuscaloosa	62.7	65.3	65.5	2.7	2.6	2.6	3.4	4.1	4.3
Alaska	229.3	227.4	233.9	9.9	10.3	10.6	10.0	9.0	10.8
Arizona	1,462.3	1,510.0	1,513.6	11.9	12.7	12.7	85.1	81.9	82.5
Phoenix	994.7	994.0	996.0	.9	1.0	1.0	57.3	54.2	54.4
Tucson	251.6	257.3	257.8	2.0	2.2	2.2	15.2	14.5	14.6
Arkansas	893.7	912.8	918.9	4.2	4.1	4.0	32.6	32.4	34.1
Fayetteville-Springdale	53.4	55.2	55.1	(¹)	(¹)	(¹)	1.7	1.6	1.6
Fort Smith	78.6	78.6	79.0	1.0	1.0	1.0	2.5	2.4	2.5
Little Rock-North Little Rock	244.9	247.9	249.2	.4	.4	.4	9.3	9.6	9.8
Pine Bluff	34.0	33.7	33.6	(¹)	(¹)	(¹)	1.5	1.6	1.5
California	12,507.2	12,754.0	12,815.4	41.7	41.5	41.9	638.1	647.7	655.7
Anaheim-Santa Ana	1,194.1	1,212.7	1,218.9	1.4	1.4	1.4	72.8	70.8	71.1
Bakersfield	167.6	170.5	171.6	13.7	14.1	14.2	10.4	10.8	11.0
Fresno	215.1	228.0	229.7	.6	.7	.7	12.7	14.1	14.2
Los Angeles-Long Beach	4,219.8	4,293.5	4,311.5	9.1	9.6	9.7	152.1	155.2	156.2
Modesto	111.7	116.4	117.0	.1	.1	.1	8.2	8.5	8.9
Oakland	881.8	908.7	913.2	4.1	4.2	4.3	52.0	53.5	54.8
Oxnard-Ventura	224.3	231.5	232.8	2.4	2.4	2.4	16.6	17.5	17.7
Riverside-San Bernardino	678.6	714.0	719.0	1.4	1.4	1.4	63.6	67.5	68.2
Sacramento	596.9	618.7	620.3	.7	.8	.8	35.7	37.2	38.1
San Diego	959.6	994.7	1,001.5	.8	.8	.8	63.4	64.1	65.0
San Francisco	951.9	968.2	971.1	.6	.6	.6	33.6	34.5	34.8
San Jose	826.8	829.3	832.4	.2	.2	.2	33.0	33.1	33.5
Santa Barbara-Santa Maria-Lompoc	149.5	152.1	152.7	1.4	1.4	1.4	6.8	7.1	7.1
Santa Rosa-Petaluma	133.7	141.3	142.4	.7	.7	.7	10.2	10.9	11.1
Stockton	151.9	152.9	153.8	.1	.1	.1	8.8	8.7	8.9
Vallejo-Fairfield-Napa	132.9	138.0	139.6	.6	.7	.7	9.8	10.8	11.2
Colorado	1,473.2	1,492.0	1,494.6	19.4	19.2	19.3	59.2	56.4	58.6
Boulder-Longmont	114.2	116.0	116.1	(¹)	(¹)	(¹)	3.9	4.0	4.0
Denver	820.5	828.3	831.8	11.5	11.4	11.5	31.4	31.7	33.1
Connecticut	1,679.1	1,671.2	1,679.5	1.3	1.2	1.2	77.0	68.0	70.2
Bridgeport-Milford	200.1	195.9	196.9	(²)	(²)	(²)	8.6	8.1	8.2
Hartford	484.9	487.4	488.9	(¹)	(¹)	(¹)	20.2	18.8	19.0
New Britain	66.8	67.3	68.6	(²)	(²)	(²)	5.2	4.2	4.6
New Haven-Meriden	260.3	256.1	256.3	(¹)	(¹)	(¹)	13.0	10.5	10.9
Stamford	124.1	123.2	124.0	(¹)	(¹)	(¹)	5.1	4.7	4.9
Waterbury	88.6	87.4	87.7	(²)	(²)	(²)	4.3	4.2	4.3
Delaware	344.2	347.2	349.7	.1	.1	.1	21.5	19.5	19.8
Wilmington	295.6	299.5	302.4	.2	.2	.2	19.4	17.7	18.2
District of Columbia	678.5	688.2	687.3	.1	.1	.1	14.6	14.1	14.0
Washington MSA	2,225.1	2,248.5	2,258.1	1.1	1.1	1.1	149.5	141.6	142.7
Florida	5,260.6	5,495.0	5,495.1	9.4	9.6	9.5	339.3	336.0	334.6
Daytona Beach	121.4	124.9	124.1	(²)	(²)	(²)	8.0	7.8	7.7
Fort Lauderdale-Hollywood-Pompano Beach	504.3	521.4	519.2	.3	.3	.3	34.8	33.4	33.9
Fort Myers-Cape Coral	123.0	133.4	132.0	(²)	(²)	(²)	13.3	12.4	12.3
Gainesville	99.2	101.3	101.1	(²)	(²)	(²)	4.5	4.3	4.3
Jacksonville	415.5	425.0	426.9	.7	.7	.7	26.8	27.6	27.7
Lakeland-Winter Haven	155.2	158.9	158.5	4.2	4.0	4.0	9.1	8.3	8.4
Melbourne-Titusville-Palm Bay	159.7	164.7	164.8	(²)	(²)	(²)	9.4	9.1	9.0
Miami-Hialeah	869.0	897.2	899.0	1.0	.9	.9	39.7	40.5	40.5
Orlando	539.0	560.4	562.8	(²)	(²)	(²)	36.5	36.7	36.8
Pensacola	127.4	129.5	129.9	.4	.4	.4	8.1	8.2	8.3
Sarasota	112.9	117.5	116.5	(²)	(²)	(²)	10.2	10.3	10.3
Tallahassee	120.7	126.0	126.0	(²)	(²)	(²)	6.0	6.0	6.1
Tampa-St. Petersburg-Clearwater	859.5	891.6	888.9	.6	.7	.7	53.7	54.3	54.2
West Palm Beach-Boca Raton-Delray Beach	353.9	373.7	369.0	(²)	(²)	(²)	28.5	27.5	27.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Alabama	384.8	382.4	381.3	80.0	79.8	80.2	348.0	346.8	348.1
Birmingham	57.7	57.8	57.6	32.2	32.2	32.1	100.6	101.0	101.8
Huntsville	32.7	33.1	33.3	2.9	2.9	2.9	24.9	25.2	25.3
Mobile	25.9	26.9	27.3	9.9	9.7	9.7	45.9	46.7	46.8
Montgomery	18.9	17.9	18.1	5.3	5.1	5.2	30.1	30.4	30.3
Tuscaloosa	10.3	10.7	10.8	2.0	2.2	2.2	12.7	12.8	12.8
Alaska	16.4	15.4	16.7	22.2	18.5	19.5	44.5	43.9	45.6
Arizona	187.3	187.3	188.0	76.4	80.4	80.3	365.0	376.5	377.3
Phoenix	138.7	139.3	139.6	53.2	56.1	56.3	246.5	253.5	253.9
Tucson	28.1	26.7	27.0	9.6	9.5	9.6	58.1	59.8	59.9
Arkansas	230.3	229.6	230.4	54.0	54.9	55.0	204.1	209.3	211.4
Fayetteville-Springdale	13.2	13.7	13.6	5.1	4.9	4.9	12.1	12.3	12.5
Fort Smith	25.5	25.6	25.7	4.3	4.3	4.2	16.8	16.3	16.6
Little Rock-North Little Rock	33.3	33.1	33.3	16.5	16.3	16.2	59.6	60.8	61.1
Pine Bluff	6.6	6.3	6.3	2.7	2.6	2.6	7.4	7.4	7.5
California	2,158.9	2,132.1	2,130.8	600.8	604.1	606.2	2,942.9	2,993.8	3,009.7
Anaheim-Santa Ana	259.2	256.8	257.5	34.5	35.3	35.6	300.6	305.6	307.3
Bakersfield	10.6	10.5	10.5	8.0	8.3	8.4	39.6	39.6	39.8
Fresno	23.1	24.4	24.5	11.8	12.0	12.1	55.0	57.6	58.7
Los Angeles-Long Beach	895.5	883.9	882.9	212.5	215.4	216.3	959.6	971.7	975.1
Modesto	22.0	22.7	22.4	4.3	4.7	4.7	29.2	29.9	30.1
Oakland	113.4	115.6	116.0	58.2	60.7	60.9	213.6	219.7	220.9
Oxnard-Ventura	30.6	30.7	30.8	11.8	11.4	11.5	55.9	57.5	57.9
Riverside-San Bernardino	87.8	89.1	89.2	32.6	33.5	33.7	167.6	174.0	175.0
Sacramento	43.0	44.9	45.2	26.5	26.7	27.0	140.1	143.3	143.7
San Diego	134.6	135.3	134.9	35.6	36.0	36.3	232.7	240.0	242.2
San Francisco	81.2	81.2	80.9	75.9	78.6	79.3	216.1	215.9	216.5
San Jose	268.3	264.1	264.3	21.5	22.2	22.3	169.2	168.5	169.0
Santa Barbara-Santa Maria-Lompoc	22.4	22.8	22.7	5.3	5.4	5.4	34.5	34.3	34.6
Santa Rosa-Petaluma	20.5	21.2	21.3	6.2	6.6	6.6	33.7	36.4	36.5
Stockton	24.3	23.6	23.7	8.7	8.3	8.5	35.3	35.5	35.9
Vallejo-Fairfield-Napa	12.5	12.5	12.5	4.6	5.1	5.1	31.9	33.8	34.1
Colorado	192.3	194.3	194.5	92.3	92.8	93.1	361.5	359.6	362.1
Boulder-Longmont	30.5	30.9	30.6	2.4	2.4	2.4	23.9	23.7	23.8
Denver	95.5	95.9	96.4	66.8	67.9	67.8	200.4	200.0	201.1
Connecticut	361.4	352.9	352.1	73.2	71.6	72.0	379.5	376.8	379.1
Bridgeport-Milford	54.2	51.5	51.3	8.7	8.6	8.8	45.5	44.7	44.7
Hartford	85.9	86.3	86.4	18.5	19.0	19.2	104.4	102.7	102.2
New Britain	19.8	19.5	19.4	3.2	3.5	3.7	13.8	14.2	14.2
New Haven-Meriden	46.6	45.5	45.3	16.8	16.2	16.3	60.2	57.1	57.5
Stamford	21.1	19.6	19.4	5.7	5.9	5.9	29.6	29.6	29.8
Waterbury	23.3	22.3	22.6	3.5	3.4	3.3	17.9	17.3	17.0
Delaware	73.0	71.8	71.7	14.9	14.8	15.0	74.4	73.6	74.4
Wilmington	62.6	61.0	60.9	15.7	16.3	16.7	61.0	62.1	62.9
District of Columbia	15.8	15.9	16.1	24.9	24.9	25.0	63.2	64.0	63.7
Washington MSA	89.3	89.1	88.7	108.8	111.5	112.1	432.8	438.9	442.0
Florida	541.5	541.6	541.5	260.3	278.6	279.7	1,431.5	1,489.8	1,485.8
Daytona Beach	12.1	12.2	12.1	3.9	4.1	4.1	35.9	37.4	36.9
Fort Lauderdale-Hollywood-Pompano Beach	46.2	46.2	46.2	22.6	24.1	24.0	150.2	155.7	154.1
Fort Myers-Cape Coral	6.2	6.3	6.3	5.1	5.8	5.8	36.6	40.8	39.9
Gainesville	5.7	5.4	5.4	1.8	1.8	1.8	21.3	21.9	21.8
Jacksonville	38.0	38.1	38.3	28.6	29.0	29.2	111.2	113.1	112.9
Lakeland-Winter Haven	23.7	23.1	22.8	6.8	7.2	7.2	43.1	44.8	44.4
Melbourne-Titusville-Palm Bay	29.7	30.2	30.4	4.2	4.2	4.3	37.8	39.3	39.1
Miami-Hialeah	92.9	91.3	91.7	65.4	72.2	72.5	236.9	244.1	244.3
Orlando	55.5	54.4	53.9	27.4	28.5	28.7	142.3	146.4	147.8
Pensacola	11.3	11.5	11.3	6.4	6.4	6.4	32.8	33.1	33.4
Sarasota	8.5	8.7	8.6	3.5	3.6	3.5	33.9	35.1	34.5
Tallahassee	4.8	5.0	5.0	3.0	3.1	3.1	25.5	27.2	27.2
Tampa-St. Petersburg-Clearwater	95.7	95.7	95.8	39.7	42.3	42.4	238.8	247.9	246.6
West Palm Beach-Boca Raton-Delray Beach	34.1	34.4	34.2	13.5	14.2	14.3	95.0	102.1	100.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	May 1989	Apr. 1990	May 1990 ^a	May 1989	Apr. 1990	May 1990 ^a	May 1989	Apr. 1990	May 1990 ^a
Alabama	70.8	71.3	71.3	302.7	307.6	307.4	318.9	324.4	328.2
Birmingham	28.7	28.5	28.8	97.7	100.9	101.2	64.3	66.4	66.9
Huntsville	3.8	3.8	3.9	31.3	32.3	32.5	30.7	31.5	31.7
Mobile	7.9	7.5	7.4	40.4	41.5	41.3	29.1	29.6	29.7
Montgomery	7.7	7.8	7.8	29.0	31.3	31.2	33.7	34.8	34.8
Tuscaloosa	2.1	2.1	2.1	9.3	9.8	9.8	20.2	21.0	20.9
Alaska	10.3	10.5	10.6	47.1	47.1	48.4	68.9	72.7	71.7
Arizona	92.3	94.3	94.4	387.2	409.7	408.4	257.1	267.2	270.0
Phoenix	74.0	75.8	75.9	261.8	277.2	275.8	132.3	136.9	139.1
Tucson	11.4	11.4	11.4	71.3	75.2	74.8	55.9	58.0	58.3
Arkansas	38.2	38.4	38.5	174.0	183.6	184.5	156.3	160.5	161.0
Fayetteville-Springdale	1.6	1.6	1.5	8.6	9.4	9.4	11.1	11.7	11.6
Fort Smith	2.9	2.9	2.9	17.3	17.8	17.7	8.3	8.3	8.4
Little Rock-North Little Rock	15.6	15.5	15.6	61.2	63.3	63.7	49.0	48.9	49.1
Pine Bluff	1.3	1.2	1.2	7.0	6.9	7.0	7.5	7.7	7.5
California	831.8	853.2	854.9	3,259.6	3,372.4	3,381.3	2,033.4	2,109.2	2,132.9
Anaheim-Santa Ana	95.1	96.9	97.2	305.9	316.6	317.7	124.6	129.3	131.1
Bakersfield	6.5	6.7	6.7	35.8	35.6	35.7	43.0	44.9	45.3
Fresno	11.9	12.4	12.5	49.9	54.3	54.7	50.1	52.5	52.3
Los Angeles-Long Beach	290.6	298.1	299.1	1,168.7	1,215.5	1,219.8	531.7	544.1	552.4
Modesto	5.0	5.3	5.3	23.5	24.6	24.9	19.4	20.6	20.6
Oakland	57.3	58.0	57.9	215.5	225.3	225.4	167.7	171.7	173.0
Oxnard-Ventura	11.4	11.7	11.7	53.5	56.4	56.0	42.1	43.9	44.8
Riverside-San Bernardino	28.5	29.6	29.8	158.7	168.7	169.0	138.4	150.2	152.7
Sacramento	38.4	39.2	39.3	131.1	139.3	138.2	181.4	187.3	188.0
San Diego	66.6	68.0	68.0	254.9	271.3	272.9	171.0	179.2	181.4
San Francisco	109.5	110.0	109.9	297.4	306.9	307.5	137.6	140.5	141.6
San Jose	32.2	32.5	32.5	214.3	219.2	219.9	88.1	89.5	90.7
Santa Barbara-Santa Maria-Lompoc	8.6	8.7	8.7	41.5	42.0	41.9	29.0	30.4	30.9
Santa Rosa-Petaluma	7.9	8.0	8.0	30.5	32.9	33.4	24.0	24.6	24.8
Stockton	9.5	9.4	9.3	32.6	33.2	33.1	32.6	34.1	34.3
Vallejo-Fairfield-Napa	4.9	5.0	5.0	30.1	31.6	32.2	38.5	38.5	38.8
Colorado	95.6	96.9	96.5	376.2	390.5	388.3	276.7	282.3	282.2
Boulder-Longmont	4.1	4.3	4.3	26.2	27.9	28.1	23.2	22.8	22.9
Denver	63.7	63.3	63.3	220.7	225.1	225.9	130.5	133.0	132.7
Connecticut	151.0	151.3	151.7	423.7	435.1	437.5	212.0	214.3	215.7
Bridgeport-Milford	12.5	12.3	12.2	50.4	50.3	50.9	20.2	20.4	20.8
Hartford	74.1	74.6	75.2	114.6	118.3	118.7	67.2	67.7	68.2
New Britain	3.6	3.3	3.3	14.4	15.7	15.9	6.8	6.9	7.5
New Haven-Meriden	16.3	17.2	17.3	74.9	77.2	76.1	32.5	32.4	32.9
Stamford	13.8	14.1	14.1	38.0	38.3	38.8	10.8	11.0	11.1
Waterbury	4.4	4.2	4.2	22.2	23.3	23.2	13.0	12.7	13.1
Delaware	30.2	30.6	30.6	82.1	86.2	87.7	48.0	50.6	50.4
Wilmington	26.6	27.4	27.5	71.9	74.6	76.1	38.2	40.2	39.9
District of Columbia	33.6	33.4	33.3	251.6	258.8	257.1	274.7	277.0	278.0
Washington MSA	129.5	131.4	131.2	730.4	743.0	743.8	583.7	591.9	596.5
Florida	370.7	375.3	376.5	1,489.3	1,607.4	1,602.7	818.6	856.7	864.8
Daytona Beach	5.9	5.8	5.8	35.1	36.5	36.3	20.5	21.1	21.2
Fort Lauderdale-Hollywood-Pompano Beach	40.5	41.4	41.5	144.2	150.8	149.2	65.5	69.5	70.0
Fort Myers-Cape Coral	8.9	9.6	9.6	34.4	38.3	37.8	18.4	20.1	20.2
Gainesville	4.7	4.5	4.5	24.6	25.8	25.7	36.5	37.6	37.6
Jacksonville	39.4	40.6	41.0	108.6	112.0	113.1	62.2	63.9	64.0
Lakeland-Winter Haven	8.8	9.1	9.1	37.8	40.0	39.7	21.7	22.4	22.9
Melbourne-Titusville-Palm Bay	5.7	5.7	5.5	49.9	52.3	52.4	22.9	23.8	24.0
Miami-Hialeah	72.1	71.9	72.2	243.1	253.0	250.9	117.9	123.3	126.0
Orlando	33.1	33.4	33.6	182.5	196.1	196.7	61.6	64.8	65.2
Pensacola	5.3	5.3	5.3	32.9	33.9	34.1	30.2	30.7	30.7
Sarasota	8.0	8.1	8.0	35.8	37.8	37.7	13.0	13.9	13.9
Tallahassee	5.0	5.2	5.2	25.9	26.6	26.5	50.3	52.6	52.6
Tampa-St. Petersburg-Clearwater	65.5	65.4	65.4	255.4	270.0	268.4	110.1	115.3	115.4
West Palm Beach-Boca Raton-Delray Beach	29.1	30.2	30.1	108.8	116.9	114.8	44.9	48.4	48.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	May 1989	Apr. 1990	May 1990 ^a	May 1989	Apr. 1990	May 1990 ^a	May 1989	Apr. 1990	May 1990 ^a
Georgia	2,930.1	3,003.9	3,016.4	8.7	8.7	8.7	145.3	145.4	145.9
Albany	48.0	48.6	49.0	(^b)	(^b)	(^b)	2.2	1.9	2.0
Athens	68.5	69.9	70.6	.1	.1	.1	2.5	2.8	2.8
Atlanta	1,441.7	1,483.5	1,489.8	1.3	1.2	1.2	67.1	67.2	67.6
Augusta	168.8	172.5	172.8	.5	.5	.5	14.3	15.0	15.5
Columbus	93.7	92.6	93.0	.1	.1	.1	4.6	4.3	4.3
Macon-Warner Robins	123.9	126.4	126.9	.1	.1	.1	5.0	5.2	5.2
Savannah	107.6	110.1	110.5	(^b)	(^b)	(^b)	7.3	7.9	7.6
Hawaii	502.9	520.7	521.0	(^b)	(^b)	(^b)	28.5	29.5	29.4
Honolulu	394.1	408.3	408.9	(^b)	(^b)	(^b)	21.6	22.5	22.4
Idaho	364.5	379.6	383.8	3.7	3.8	3.9	16.2	17.2	17.7
Boise City	99.0	103.8	105.0	(^b)	(^b)	(^b)	5.4	6.1	6.0
Illinois	5,194.9	5,202.6	5,229.0	19.9	19.4	19.8	211.8	200.6	206.3
Aurora-Elgin	142.8	142.1	143.3	(^b)	(^b)	(^b)	7.7	7.2	7.3
Bloomington-Normal	63.9	64.5	65.2	(^b)	(^b)	(^b)	3.0	2.2	2.8
Champaign-Urbana-Rantoul	88.7	90.4	90.4	(^b)	(^b)	(^b)	2.3	2.1	2.2
Chicago	3,164.4	3,180.7	3,204.6	2.0	2.4	2.4	130.0	125.3	131.5
Davenport-Rock Island-Moline	161.0	162.4	163.6	(^b)	(^b)	(^b)	6.0	5.0	5.5
Decatur	54.3	53.4	53.6	(^b)	(^b)	(^b)	3.4	2.9	3.0
Joliet	105.9	104.3	105.0	(^b)	(^b)	(^b)	8.4	8.3	8.5
Kankakee	35.0	35.1	35.4	(^b)	(^b)	(^b)	1.8	1.6	1.7
Lake County	208.8	208.8	210.8	(^b)	(^b)	(^b)	12.9	10.9	11.4
Peoria	145.7	144.9	145.8	(^b)	(^b)	(^b)	6.9	6.3	6.8
Rockford	135.1	136.0	136.2	(^b)	(^b)	(^b)	5.5	6.0	6.4
Springfield	102.4	103.5	104.8	(^b)	(^b)	(^b)	3.9	3.5	3.8
Indiana	2,484.0	2,502.4	2,529.1	8.2	7.8	8.0	113.5	116.6	123.3
Anderson	50.1	50.3	50.7	(^b)	(^b)	(^b)	1.4	1.6	1.7
Bloomington	54.2	56.4	56.3	(^b)	(^b)	(^b)	2.3	2.1	2.2
Elkhart-Goshen	107.0	106.7	108.3	(^b)	(^b)	(^b)	3.3	3.5	3.8
Evansville	134.2	136.3	137.9	1.9	2.1	2.1	8.1	8.1	8.5
Fort Wayne	202.5	203.8	207.7	(^b)	(^b)	(^b)	9.4	9.8	10.7
Gary-Hammond	239.6	240.5	243.6	(^b)	(^b)	(^b)	15.8	15.9	17.7
Indianapolis	656.4	658.8	665.2	.8	.8	.8	35.2	35.1	36.2
Kokomo	46.7	47.0	47.5	(^b)	(^b)	(^b)	1.2	1.2	1.4
Lafayette-West Lafayette	69.2	72.1	72.6	(^b)	(^b)	(^b)	2.6	2.8	2.9
Muncie	53.3	54.3	54.7	(^b)	(^b)	(^b)	1.9	1.9	2.0
South Bend-Mishawaka	118.6	122.6	123.9	(^b)	(^b)	(^b)	6.3	7.0	7.5
Terre Haute	56.0	57.4	56.3	.4	.4	.4	2.5	3.6	3.5
Iowa	1,210.0	1,225.1	1,237.6	2.2	2.2	2.2	42.0	42.8	47.1
Cedar Rapids	94.3	94.3	95.3	(^b)	(^b)	(^b)	3.8	4.1	4.4
Des Moines	224.4	229.9	230.6	(^b)	(^b)	(^b)	8.3	9.0	9.3
Dubuque	44.5	44.5	44.8	(^b)	(^b)	(^b)	1.5	1.6	1.8
Iowa City	55.4	57.2	57.5	(^b)	(^b)	(^b)	1.8	1.8	2.0
Sioux City	54.6	54.8	55.1	(^b)	(^b)	(^b)	2.3	2.1	2.1
Waterloo-Cedar Falls	67.6	69.8	69.5	(^b)	(^b)	(^b)	2.3	2.1	2.3
Kansas	1,075.4	1,091.9	1,096.5	9.4	9.7	9.9	41.1	41.9	43.1
Lawrence	35.9	37.1	37.0	(^b)	(^b)	(^b)	1.6	1.6	1.6
Topeka	91.6	91.9	92.4	(^b)	(^b)	(^b)	3.5	4.0	4.1
Wichita	240.7	238.8	240.0	1.7	1.9	1.9	9.2	8.9	9.4
Kentucky	1,437.3	1,462.5	1,470.4	34.0	33.5	34.1	65.6	67.2	68.7
Lexington-Fayette	197.7	204.1	205.4	.3	.2	.2	10.7	11.6	12.0
Louisville	470.4	479.4	481.8	.6	.5	.5	22.9	22.9	23.0
Owensboro	36.0	36.6	36.9	.5	.5	.4	2.2	2.0	2.0
Louisiana	1,520.5	1,521.6	1,527.5	54.2	54.7	54.4	80.5	81.3	82.1
Alexandria	46.4	45.1	45.0	.1	.1	.1	2.9	2.1	2.1
Baton Rouge	228.0	231.2	231.4	.8	.8	.8	25.1	25.8	26.1
Houma-Thibodaux	55.0	55.6	56.4	5.4	5.4	5.5	1.9	1.9	1.9
Lafayette	88.6	89.4	90.1	11.2	11.3	11.4	3.5	3.3	3.4
Lake Charles	62.4	63.6	64.2	1.0	1.1	1.1	4.7	4.8	5.4
Monroe	55.8	56.8	56.8	.4	.5	.6	2.5	2.7	2.5
New Orleans	527.3	525.6	527.8	14.4	14.5	14.5	22.0	21.9	22.6
Shreveport	131.6	131.7	132.6	3.0	3.0	3.0	5.4	5.8	5.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1989	Apr. 1990	May 1990 ^a	May 1989	Apr. 1990	May 1990 ^a	May 1989	Apr. 1990	May 1990 ^a
Georgia	569.2	564.0	565.0	181.2	188.1	188.6	748.4	765.8	768.7
Albany	7.4	7.6	7.7	2.9	2.8	2.9	11.8	11.8	11.9
Athens	15.6	15.1	15.3	1.9	1.8	1.8	14.9	15.8	15.9
Atlanta	178.5	178.2	178.5	117.6	125.3	126.0	408.3	414.6	416.6
Augusta	37.9	38.4	38.4	4.5	4.6	4.7	36.5	36.8	36.9
Columbus	19.4	18.9	19.0	3.1	3.0	3.0	21.3	21.2	21.2
Macon-Warner Robins	18.6	18.6	18.8	5.1	5.5	5.4	28.3	28.8	28.9
Savannah	17.0	17.4	17.3	9.3	9.7	9.7	26.3	26.5	26.6
Hawaii	21.3	20.7	20.4	39.7	42.1	41.9	131.6	134.0	133.6
Honolulu	16.2	15.4	15.3	32.3	34.1	34.0	101.0	102.7	102.3
Idaho	58.8	60.2	61.6	19.0	19.0	19.2	93.1	98.0	99.4
Boise City	14.2	16.0	16.5	5.5	5.7	5.8	25.8	26.7	26.8
Illinois	981.7	980.1	981.7	305.9	305.7	305.7	1,275.2	1,273.1	1,277.4
Aurora-Elgin	39.5	39.1	39.1	3.5	3.4	3.5	35.7	35.4	35.6
Bloomington-Normal	7.0	7.8	7.9	2.8	2.7	2.6	14.2	14.1	14.1
Champaign-Urbana-Rantoul	8.5	8.3	8.3	2.2	2.2	2.2	19.5	19.1	18.9
Chicago	563.7	553.9	553.6	203.2	203.8	204.7	772.3	773.1	777.7
Davenport-Rock Island-Moline	32.8	33.7	33.8	7.3	7.4	7.4	46.5	46.4	46.7
Decatur	14.0	14.3	14.3	5.1	5.1	5.1	11.7	11.4	11.5
Joliet	19.3	18.7	18.6	8.7	8.7	8.8	23.9	24.1	24.3
Kankakee	5.6	5.5	5.6	2.1	2.0	2.0	9.2	9.1	9.2
Lake County	46.6	46.4	47.1	5.8	6.0	6.0	59.0	59.3	59.4
Peoria	33.6	33.6	33.4	7.1	7.1	7.1	35.2	34.6	34.9
Rockford	48.2	47.7	47.2	4.7	4.7	4.7	30.3	30.9	30.6
Springfield	3.8	4.0	4.0	4.8	4.7	4.7	23.4	22.9	23.4
Indiana	645.6	635.2	635.7	127.5	131.6	133.1	593.3	595.7	603.8
Anderson	17.2	16.7	16.9	1.3	1.3	1.3	12.0	11.7	12.0
Bloomington	9.6	9.3	9.2	1.7	1.7	1.8	11.8	11.8	11.8
Elkhart-Goshen	56.3	53.0	53.7	3.3	3.7	3.8	19.9	19.9	20.3
Evansville	31.6	31.4	31.7	7.0	7.0	7.1	35.0	35.0	35.5
Fort Wayne	54.5	52.8	53.1	13.4	13.1	13.1	49.4	48.8	49.5
Gary-Hammond	56.2	55.4	55.6	15.5	14.8	14.8	57.3	57.5	58.2
Indianapolis	108.3	106.4	105.9	41.1	42.0	42.6	170.7	173.2	174.9
Kokomo	19.1	19.1	18.9	1.4	1.6	1.6	10.6	10.2	10.2
Lafayette-West Lafayette	12.8	12.9	12.9	1.8	1.8	1.8	14.2	15.1	15.1
Muncie	11.4	11.4	11.4	2.7	3.2	3.2	13.2	13.0	13.0
South Bend-Mishawaka	22.8	22.5	22.5	5.0	5.1	5.1	31.3	31.8	32.1
Terre Haute	10.4	10.6	10.5	2.9	2.9	2.8	15.4	15.1	15.0
Iowa	233.8	232.9	233.0	55.5	55.3	55.7	308.1	311.5	315.9
Cedar Rapids	23.9	21.8	21.8	5.8	5.7	5.7	22.3	22.4	22.5
Des Moines	24.9	26.0	25.8	12.3	12.4	12.4	58.2	59.0	59.3
Dubuque	12.6	12.5	12.6	1.7	1.7	1.7	10.5	10.2	10.3
Iowa City	4.4	4.6	4.6	1.4	1.5	1.5	10.4	10.8	10.9
Sioux City	10.6	10.6	10.6	3.3	3.5	3.5	14.4	13.9	14.0
Waterloo-Cedar Falls	15.6	16.0	15.6	1.8	2.0	2.0	16.5	17.1	17.4
Kansas	185.5	186.1	186.5	66.2	66.0	66.3	267.2	269.4	270.8
Lawrence	4.6	4.7	4.6	1.0	1.1	1.1	7.5	8.3	8.2
Topeka	9.7	10.1	10.0	7.0	6.8	6.8	20.6	20.0	20.2
Wichita	63.4	64.5	64.7	11.0	11.2	11.1	56.0	53.6	54.2
Kentucky	283.9	284.5	284.7	76.4	75.8	76.5	345.9	350.4	352.8
Lexington-Fayette	33.4	33.4	33.6	8.9	9.0	9.1	44.3	44.6	44.5
Louisville	88.2	88.2	88.2	30.3	29.9	30.3	118.2	119.8	120.9
Owensboro	6.3	6.5	6.5	2.2	2.2	2.3	9.5	9.7	9.9
Louisiana	173.8	171.3	172.7	106.3	104.4	104.1	366.0	365.2	366.7
Alexandria	3.4	3.5	3.4	2.3	2.3	2.3	10.8	10.1	10.2
Baton Rouge	21.0	21.7	21.7	10.3	10.5	10.5	53.5	54.2	54.3
Houma-Thibodaux	4.8	4.8	5.0	6.1	6.2	6.3	14.3	14.2	14.5
Lafayette	7.6	8.1	8.1	6.2	6.2	6.2	24.2	24.1	24.2
Lake Charles	11.5	11.7	11.6	4.0	4.2	4.0	14.8	15.3	15.3
Monroe	7.4	7.8	7.8	3.1	2.9	3.0	14.3	14.4	14.2
New Orleans	44.2	42.1	42.9	43.0	42.8	42.9	135.4	135.3	135.2
Shreveport	17.7	17.6	17.4	8.4	8.3	8.3	32.3	32.4	32.7

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		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Georgia	162.8	163.1	163.2	601.8	635.1	634.9	512.7	533.8	541.4
Albany	2.1	2.0	2.1	8.5	8.7	8.8	13.0	13.6	13.7
Athens	2.1	2.0	2.0	11.1	11.5	11.7	20.3	20.8	21.1
Atlanta	105.8	105.4	105.6	351.3	371.8	371.9	211.9	219.8	222.4
Augusta	5.7	5.5	5.5	34.3	36.1	35.6	35.1	35.7	35.8
Columbus	6.0	5.8	5.8	18.3	18.4	18.3	20.8	21.0	21.3
Macon-Warner Robins	7.3	7.5	7.5	24.4	25.0	24.9	7.3	35.7	36.0
Savannah	4.9	4.8	4.9	26.0	26.5	26.8	16.7	17.2	17.6
Hawaii	35.0	35.7	35.8	142.8	150.6	150.2	104.0	108.1	109.7
Honolulu	28.5	29.2	29.2	107.2	113.9	113.8	87.3	90.5	91.9
Idaho	19.2	19.5	19.7	75.5	79.0	78.4	79.0	82.9	83.9
Boise City	7.7	7.6	7.7	21.9	21.9	22.4	18.5	19.8	19.8
Illinois	371.8	371.8	372.3	1,282.9	1,289.4	1,298.0	745.7	762.5	767.8
Aurora-Elgin	7.3	7.3	7.3	32.8	32.4	32.8	16.3	17.3	17.7
Bloomington-Normal	10.6	11.1	11.1	12.9	13.0	13.1	13.4	13.6	13.6
Champaign-Urbana-Rantoul	3.0	3.1	3.1	17.5	17.9	18.1	35.7	37.7	37.6
Chicago	268.5	270.1	271.8	854.9	869.9	874.3	369.8	382.2	388.6
Davenport-Rock Island-Moline	7.7	7.6	7.7	34.1	35.1	35.2	26.6	27.2	27.3
Decatur	2.3	2.3	2.3	11.8	11.5	11.5	6.0	5.9	5.9
Joliet	3.5	3.5	3.5	24.4	23.4	23.6	17.7	17.6	17.7
Kankakee	1.3	1.3	1.3	8.4	8.9	8.9	6.6	6.7	6.7
Lake County	10.1	10.1	10.1	43.6	44.4	44.5	30.8	31.7	32.3
Peoria	7.2	7.2	7.2	39.4	39.5	39.6	16.3	16.6	16.8
Rockford	5.3	5.3	5.3	29.0	29.0	29.2	12.1	12.4	12.8
Springfield	8.0	8.2	8.2	25.7	26.2	26.2	32.8	34.0	34.5
Indiana	121.9	122.9	124.0	503.2	519.8	526.0	370.9	372.8	375.1
Anderson	1.6	1.5	1.5	10.5	11.4	11.1	6.2	6.2	6.2
Bloomington	1.9	2.0	1.8	9.5	10.9	11.4	17.5	18.6	17.9
Elkhart-Goshen	2.9	3.1	3.1	15.3	17.1	17.2	6.0	6.4	6.6
Evansville	5.3	5.5	5.4	33.0	35.1	35.3	12.3	12.1	12.4
Fort Wayne	12.5	12.9	13.0	44.7	48.3	49.8	18.7	18.0	18.4
Gary-Hammond	8.3	8.3	8.4	54.3	56.1	56.3	32.1	32.3	32.5
Indianapolis	49.3	49.2	49.4	156.0	155.4	158.0	94.8	96.8	97.5
Kokomo	1.4	1.5	1.5	7.2	7.7	7.9	5.8	5.8	5.9
Lafayette-West Lafayette	3.2	3.1	3.2	13.1	14.5	14.9	21.7	22.0	21.9
Muncie	1.7	1.7	1.7	11.2	11.2	11.9	11.4	11.8	11.6
South Bend-Mishawaka	6.2	6.3	6.3	35.3	37.3	37.7	11.6	12.6	12.7
Terre Haute	2.0	2.1	2.1	12.4	12.1	12.2	10.0	10.7	9.7
Iowa	67.9	70.2	70.5	277.7	285.0	285.4	222.8	225.2	227.8
Cedar Rapids	4.6	4.7	4.8	23.1	24.0	24.1	10.8	11.6	12.0
Des Moines	30.9	32.8	32.9	58.2	58.5	58.5	31.6	32.2	32.3
Dubuque	1.5	1.5	1.5	13.0	13.2	13.1	3.7	3.8	3.8
Iowa City	1.4	1.5	1.5	9.8	10.0	10.1	26.2	27.0	26.9
Sioux City	2.5	2.6	2.7	14.7	15.1	15.1	6.8	7.0	7.1
Waterloo-Cedar Falls	2.8	2.9	2.9	15.3	15.7	15.3	13.3	14.0	14.0
Kansas	58.1	59.3	59.4	231.1	239.2	239.7	216.8	220.3	220.8
Lawrence	1.5	1.5	1.6	7.6	7.5	7.5	12.1	12.4	12.3
Topeka	6.6	6.7	6.6	21.8	21.8	22.2	22.4	22.5	22.5
Wichita	11.0	11.0	11.1	60.1	59.2	59.1	28.3	28.5	28.5
Kentucky	60.2	61.1	61.3	312.7	326.1	327.7	258.6	263.9	264.6
Lexington-Fayette	9.4	9.4	9.4	48.1	51.0	51.7	42.6	44.9	44.9
Louisville	27.3	27.0	27.1	120.1	126.4	127.0	62.8	64.7	64.8
Owensboro	1.4	1.5	1.5	8.4	8.6	8.6	5.5	5.6	5.7
Louisiana	78.7	77.3	77.5	346.6	348.9	351.8	314.4	318.5	318.2
Alexandria	2.5	2.4	2.4	11.6	12.0	11.9	12.8	12.6	12.6
Baton Rouge	13.2	13.1	13.1	49.8	50.3	50.2	54.3	54.8	54.7
Houma-Thibodaux	2.1	2.1	2.1	9.5	10.1	10.2	10.9	10.9	10.9
Lafayette	3.3	3.2	3.3	19.8	20.1	20.3	12.8	13.1	13.2
Lake Charles	3.1	3.1	3.1	12.7	12.7	13.0	10.6	10.7	10.7
Monroe	4.2	4.1	4.2	12.5	13.0	13.0	11.4	11.4	11.5
New Orleans	33.1	33.0	33.0	147.8	148.6	149.3	87.4	87.4	87.4
Shreveport	6.5	6.2	6.2	32.2	32.6	33.3	26.1	25.8	25.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Maine	541.5	530.5	536.8	0.2	0.1	0.2	33.3	28.4	29.6
Lewiston-Auburn	41.2	41.4	41.6	(²)	(²)	(²)	2.2	1.9	2.0
Portland	131.2	131.9	133.0	(²)	(²)	(²)	8.8	7.7	8.0
Maryland	2,148.3	2,163.4	2,174.5	1.7	1.7	1.7	161.7	163.0	163.9
Baltimore MSA	1,142.2	1,150.4	1,155.8	.3	.3	.3	77.3	78.2	78.9
Baltimore City	478.1	481.9	482.8	(¹)	(¹)	(¹)	20.5	20.6	21.2
Suburban Maryland-D.C.	772.6	778.2	782.2	(¹)	(¹)	(¹)	71.9	71.5	72.2
Massachusetts	3,132.9	3,064.4	3,077.1	1.5	1.4	1.5	130.3	108.1	110.5
Boston	1,756.0	1,723.1	1,725.6	.6	.7	.7	65.8	52.9	54.1
Brockton	74.6	73.7	74.1	(²)	(²)	(²)	3.4	3.0	3.1
Fall River	57.1	55.6	56.2	(²)	(²)	(²)	2.6	2.5	2.6
Fitchburg-Leominster	42.0	40.7	40.8	(²)	(²)	(²)	2.1	1.6	1.7
Lawrence-Haverhill	165.7	164.3	164.2	(²)	(²)	(²)	7.1	6.2	6.4
Lowell	108.5	101.8	102.1	(¹)	(¹)	(¹)	5.1	4.4	4.5
New Bedford	68.4	66.6	66.5	(²)	(²)	(²)	2.9	2.7	2.8
Pittsfield	42.4	42.6	42.8	.1	.1	.1	2.2	1.6	1.7
Springfield	244.5	239.6	239.6	.2	.1	.1	9.5	7.3	7.4
Worcester	204.9	202.3	203.2	.2	.3	.3	9.0	7.9	8.1
Michigan	3,940.4	3,894.1	3,936.3	11.1	10.4	10.7	140.9	126.5	137.1
Ann Arbor	173.7	178.7	177.1	(¹)	(¹)	(¹)	5.8	5.1	5.4
Battle Creek	60.2	60.6	60.4	(¹)	(¹)	(¹)	2.4	2.1	2.3
Benton Harbor	67.7	67.3	68.4	(¹)	(¹)	(¹)	1.8	1.7	1.8
Detroit	1,952.1	1,919.4	1,943.2	1.2	1.1	1.2	66.3	55.8	62.0
Flint	168.1	167.7	170.2	(¹)	(¹)	(¹)	5.2	4.9	5.5
Grand Rapids	344.4	349.1	351.9	(¹)	(¹)	(¹)	16.7	16.5	16.9
Jackson	54.6	53.9	54.8	(¹)	(¹)	(¹)	1.9	2.2	2.4
Kalamazoo	110.5	112.8	110.9	(¹)	(¹)	(¹)	4.3	4.0	4.2
Lansing-East Lansing	217.8	213.9	217.3	(¹)	(¹)	(¹)	6.3	5.4	5.6
Muskegon	58.7	57.9	58.7	(¹)	(¹)	(¹)	2.5	2.3	2.5
Saginaw-Bay City-Midland	158.9	161.6	163.9	(¹)	(¹)	(¹)	7.7	7.8	8.4
Minnesota	2,102.2	2,124.6	2,153.1	7.6	7.9	8.2	81.5	75.1	83.2
Duluth	95.9	95.8	96.7	5.2	5.5	5.5	3.3	3.2	3.3
Minneapolis-St. Paul	1,356.8	1,372.7	1,385.2	(²)	(²)	(²)	53.0	49.7	53.2
Rochester	63.0	64.4	65.2	(¹)	(¹)	(¹)	2.2	1.8	2.1
St. Cloud	78.1	81.8	83.0	(¹)	(¹)	(¹)	3.8	3.9	4.4
Mississippi	924.2	934.4	935.6	5.8	6.1	6.3	36.3	35.3	35.0
Jackson	185.2	188.4	188.9	.7	.6	.7	7.8	7.3	7.4
Missouri	2,320.7	2,333.0	2,343.7	5.3	5.1	5.2	97.0	94.4	97.0
Kansas City	771.2	793.3	796.0	(¹)	(¹)	(¹)	32.5	33.5	33.8
St. Louis	1,176.3	1,185.8	1,190.2	(¹)	(¹)	(¹)	58.8	58.5	59.8
Springfield	116.9	119.9	119.8	(¹)	(¹)	(¹)	4.6	4.6	4.6
Montana	292.4	293.0	297.3	6.4	6.0	6.2	10.0	8.5	9.6
Nebraska	710.5	722.8	729.6	1.6	1.6	1.6	24.9	25.3	25.5
Lincoln	119.7	122.7	123.7	(¹)	(¹)	(¹)	4.1	4.4	4.5
Omaha	322.2	329.0	331.2	(¹)	(¹)	(¹)	11.8	12.2	12.5
Nevada	577.9	612.8	617.6	13.4	14.8	15.1	44.6	48.9	50.0
Las Vegas	337.6	366.0	368.9	.3	.3	.3	30.2	34.4	35.0
Reno	140.7	145.0	145.9	1.5	1.5	1.6	7.6	7.6	7.7
New Hampshire	530.3	510.0	516.5	.5	.5	.5	32.9	23.6	25.6
Manchester	87.5	83.4	83.8	(¹)	(¹)	(¹)	5.8	4.2	4.5
Nashua	94.8	89.8	89.8	(¹)	(¹)	(¹)	4.1	2.6	2.6
Portsmouth-Dover-Rochester	113.3	105.1	107.2	(¹)	(¹)	(¹)	5.4	3.7	4.3
New Jersey	3,704.3	3,711.8	3,733.2	2.6	2.5	2.6	169.4	155.1	158.1
Atlantic City	169.9	172.0	177.9	(¹)	(¹)	(¹)	10.1	9.4	9.5
Bergen-Passaic	670.6	672.8	673.3	(¹)	(¹)	(¹)	31.9	30.9	31.4
Camden	452.1	457.6	460.1	(¹)	(¹)	(¹)	26.1	25.2	25.9
Jersey City	251.0	251.1	252.0	(¹)	(¹)	(¹)	7.2	6.7	6.7
Middlesex-Somerset-Hunterdon	540.5	541.4	543.9	.6	.7	.7	23.4	21.9	22.2
Monmouth-Ocean	338.4	335.7	340.2	(¹)	(¹)	(¹)	20.7	18.2	18.1
Newark	969.6	981.1	984.0	.8	.8	.8	38.8	37.2	38.3
Trenton	198.8	199.7	200.5	(¹)	(¹)	(¹)	5.3	4.7	4.8
Vineland-Millville-Bridgeton	58.7	59.3	59.7	.4	.4	.4	2.4	2.5	2.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Maine	104.2	103.5	104.1	22.2	21.9	22.2	136.3	131.5	134.3
Lewiston-Auburn	9.9	9.7	9.8	1.4	1.4	1.4	10.4	10.6	10.6
Portland	16.5	16.5	16.9	5.5	5.2	5.3	39.5	39.4	39.8
Maryland	208.4	204.3	205.2	100.3	101.6	102.0	537.2	538.1	542.7
Baltimore MSA	130.0	127.3	127.6	55.7	56.8	56.7	277.0	276.9	279.1
Baltimore City	44.9	44.5	44.2	28.2	28.4	28.6	96.1	94.1	94.6
Suburban Maryland-D.C.	38.2	38.1	37.7	31.1	31.7	32.0	197.5	199.6	200.5
Massachusetts	568.2	534.0	532.8	131.9	130.9	130.7	739.8	728.1	732.9
Boston	260.5	247.9	247.3	75.8	76.6	76.8	391.7	388.9	386.3
Brockton	10.2	9.5	9.4	4.8	4.5	4.6	24.0	23.8	23.9
Fall River	15.7	14.4	14.8	1.9	1.9	1.9	15.4	14.7	14.8
Fitchburg-Leominster	12.3	12.0	12.1	1.6	1.4	1.3	10.5	9.7	9.8
Lawrence-Haverhill	48.4	45.9	45.8	6.9	6.4	6.5	36.9	36.5	36.6
Lowell	36.1	31.5	31.5	4.9	4.7	4.8	22.7	21.8	22.0
New Bedford	18.4	17.0	16.8	2.9	2.8	2.7	16.9	16.5	16.6
Pittsfield	10.7	10.9	10.7	1.3	1.4	1.5	9.7	9.9	9.8
Springfield	49.1	46.5	46.0	10.0	10.0	10.0	59.4	59.1	59.5
Worcester	44.5	43.5	43.4	9.4	9.2	9.2	49.8	50.2	50.5
Michigan	977.4	942.5	942.4	152.7	150.9	153.2	923.2	911.4	925.5
Ann Arbor	39.9	38.8	38.8	4.8	4.9	5.0	30.2	30.1	30.0
Battle Creek	17.1	16.6	16.1	1.6	1.6	1.6	12.0	11.9	12.0
Benton Harbor	21.9	21.0	21.1	2.5	2.6	2.6	14.8	14.7	15.2
Detroit	463.1	443.7	443.4	87.5	87.6	88.0	469.5	462.1	469.0
Flint	53.2	51.9	52.5	4.3	4.0	4.2	41.3	41.2	41.9
Grand Rapids	102.0	101.6	101.6	11.4	11.3	11.5	90.1	92.3	93.9
Jackson	13.7	12.8	12.7	4.1	3.9	3.9	12.9	12.7	12.8
Kalamazoo	31.1	29.8	30.0	3.2	3.3	3.3	25.7	25.9	25.9
Lansing-East Lansing	33.6	32.4	32.9	5.8	5.7	5.8	46.6	45.0	45.6
Muskegon	17.1	16.4	16.4	2.2	2.2	2.2	13.5	13.4	13.7
Saginaw-Bay City-Midland	44.3	44.0	44.6	6.3	6.1	6.2	38.1	38.7	39.4
Minnesota	395.8	393.8	394.7	105.0	108.4	109.7	518.9	519.1	528.1
Duluth	8.5	8.1	8.4	5.8	5.8	5.9	23.8	23.9	24.2
Minneapolis-St. Paul	263.5	261.3	261.1	73.6	77.2	77.7	331.0	330.8	335.4
Rochester	11.5	11.7	11.9	1.9	1.9	1.9	12.6	12.5	12.7
St. Cloud	14.5	15.0	14.9	3.8	3.9	3.9	23.8	26.3	26.8
Mississippi	244.5	242.2	242.2	45.3	46.5	46.7	196.5	198.9	200.4
Jackson	21.5	21.9	21.9	14.0	14.4	14.6	43.4	43.3	43.5
Missouri	441.2	437.4	436.7	150.9	150.5	150.8	568.9	568.4	572.8
Kansas City	110.4	110.4	110.9	63.3	64.5	64.6	201.5	207.7	208.6
St. Louis	225.7	222.5	223.1	76.9	78.3	78.5	287.3	289.9	291.3
Springfield	21.3	21.0	21.1	7.2	7.6	7.6	33.5	34.0	34.3
Montana	21.7	21.1	22.2	20.1	19.4	19.6	77.6	78.9	79.9
Nebraska	94.2	95.7	95.8	45.6	46.5	46.7	184.7	185.2	186.3
Lincoln	14.2	14.3	14.2	6.5	6.7	6.7	27.3	27.7	27.6
Omaha	35.4	35.9	36.0	24.2	24.7	25.1	83.1	84.5	84.7
Nevada	25.5	26.0	26.2	30.4	32.0	32.2	117.5	125.0	126.8
Las Vegas	10.0	10.5	10.6	17.8	19.3	19.4	70.8	77.7	78.5
Reno	8.5	8.6	8.6	9.5	9.2	9.2	31.8	33.2	33.5
New Hampshire	115.1	108.5	108.7	18.4	18.1	18.2	135.8	128.3	129.3
Manchester	12.0	11.2	11.1	4.8	4.8	4.9	23.4	21.6	21.2
Nashua	34.9	32.6	32.8	3.3	3.0	3.0	23.2	22.0	22.0
Portsmouth-Dover-Rochester	21.1	19.2	19.0	2.8	2.5	2.6	28.4	25.8	26.7
New Jersey	653.3	639.1	640.2	244.2	242.8	243.1	880.9	878.9	886.5
Atlantic City	8.5	8.6	8.5	6.6	6.6	6.7	36.4	34.3	37.1
Bergen-Passaic	150.7	146.7	146.9	29.9	29.6	29.5	191.5	191.6	191.5
Camden	72.4	69.9	69.6	20.0	20.2	20.3	121.7	125.0	125.7
Jersey City	43.8	42.4	43.0	33.3	33.9	33.6	61.8	60.8	60.7
Middlesex-Somerset-Hunterdon	114.5	112.5	113.1	41.6	42.3	42.5	129.8	129.5	129.8
Monmouth-Ocean	27.9	27.4	27.1	17.7	17.2	17.6	90.4	89.4	91.0
Newark	174.8	171.1	171.5	80.9	83.2	83.2	195.5	194.5	195.6
Trenton	28.8	28.5	28.4	6.8	6.6	6.7	31.3	31.6	31.5
Vineland-Millville-Bridgeton	16.7	16.7	16.7	2.1	2.3	2.3	11.4	11.0	11.3

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		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Maine	25.3	24.9	25.2	123.0	120.9	122.1	97.0	99.3	99.1
Lewiston-Auburn	2.3	2.4	2.3	10.7	11.0	11.2	4.3	4.4	4.3
Portland	11.9	11.3	11.3	32.9	35.2	35.3	16.1	16.5	16.5
Maryland	130.2	132.0	132.3	591.4	599.0	602.1	417.4	423.7	424.6
Baltimore MSA	76.5	76.8	76.9	313.4	317.4	319.9	212.0	216.7	216.4
Baltimore City	45.5	45.6	45.4	150.8	152.8	153.7	92.1	95.9	95.1
Suburban Maryland-D.C.	44.9	46.3	46.3	225.8	227.3	228.2	163.2	163.7	165.3
Massachusetts	217.9	218.3	218.5	930.0	935.3	940.9	413.3	408.3	409.3
Boston	148.5	147.7	147.9	603.7	603.7	607.3	209.4	204.7	205.2
Brockton	3.5	3.7	3.7	16.7	16.5	16.6	12.0	12.7	12.8
Fall River	3.4	3.5	3.5	11.0	11.4	11.4	7.1	7.2	7.2
Fitchburg-Leominster	1.6	1.5	1.5	9.1	9.3	9.3	4.8	5.2	5.1
Lawrence-Haverhill	6.5	6.4	6.4	37.2	39.5	39.8	22.7	23.4	22.7
Lowell	3.8	3.5	3.5	22.2	22.5	22.4	13.7	13.4	13.4
New Bedford	2.5	2.4	2.5	14.8	15.2	15.2	10.0	10.0	9.9
Pittsfield	2.0	2.0	2.0	11.5	11.8	12.1	4.9	4.9	4.9
Springfield	15.8	15.1	15.1	61.3	61.7	61.8	39.2	39.8	39.7
Worcester	14.0	13.8	13.9	52.9	52.6	53.1	25.1	24.8	24.7
Michigan	188.4	190.1	190.9	908.3	911.1	921.0	638.5	651.2	655.6
Ann Arbor	4.6	4.7	4.8	36.7	38.3	38.8	51.7	56.7	54.2
Battle Creek	3.2	3.4	3.4	12.1	13.3	13.0	11.7	11.7	12.0
Benton Harbor	2.6	2.7	2.7	15.2	15.7	15.8	8.9	8.9	9.1
Detroit	110.8	112.6	112.7	510.1	512.1	517.9	243.5	244.4	249.1
Flint	6.0	6.1	6.3	33.8	35.6	35.3	24.3	23.9	24.6
Grand Rapids	15.6	15.8	15.9	74.2	76.8	76.6	34.5	34.9	35.5
Jackson	1.7	1.7	1.8	10.0	10.2	10.3	10.4	10.5	10.9
Kalamazoo	5.0	5.2	5.2	25.2	25.4	25.5	16.1	19.2	16.7
Lansing-East Lansing	12.8	12.6	12.6	42.1	42.9	43.0	70.6	69.9	71.7
Muskegon	1.4	1.5	1.5	12.3	12.2	12.5	9.6	9.9	10.0
Saginaw-Bay City-Midland	6.3	5.9	6.0	34.9	37.8	37.8	21.2	21.2	21.4
Minnesota	120.1	122.0	122.9	534.1	553.4	557.9	339.2	344.9	348.4
Duluth	3.1	3.2	3.2	23.9	23.8	24.0	22.3	22.3	22.2
Minneapolis-St. Paul	92.5	93.8	94.3	357.8	370.2	372.5	184.8	189.2	190.5
Rochester	1.6	1.7	1.7	26.6	28.1	28.1	6.6	6.7	6.8
St. Cloud	2.4	2.4	2.5	16.0	16.2	16.3	13.8	14.1	14.2
Mississippi	38.8	38.5	38.4	153.6	158.7	158.8	203.4	208.1	207.6
Jackson	14.6	14.6	14.5	42.0	43.2	43.1	41.3	43.0	43.1
Missouri	134.8	134.6	135.3	555.8	564.4	569.1	366.8	378.2	376.8
Kansas City	58.5	59.1	59.3	187.5	195.3	195.8	117.4	122.8	123.0
St. Louis	74.4	74.1	74.0	307.8	313.8	315.8	145.3	148.7	147.9
Springfield	5.4	5.6	5.6	29.9	31.3	30.8	15.0	15.8	15.8
Montana	13.2	13.4	13.3	71.2	73.7	73.7	72.2	72.0	72.8
Nebraska	48.6	48.3	48.2	168.0	173.5	174.7	142.9	146.7	150.8
Lincoln	8.6	8.4	8.4	27.1	28.8	29.0	31.9	32.4	33.3
Omaha	29.0	29.3	29.3	91.3	94.2	95.1	47.4	48.2	48.5
Nevada	25.5	26.6	26.9	249.1	264.3	265.1	71.9	75.2	75.3
Las Vegas	16.5	16.8	17.1	155.3	168.4	169.4	36.7	38.6	38.6
Reno	6.5	6.9	7.0	57.5	59.9	60.0	17.8	18.1	18.3
New Hampshire	32.7	32.2	32.6	123.3	124.3	126.7	71.6	74.5	74.9
Manchester	8.7	8.8	8.9	24.1	23.8	24.2	8.7	9.0	9.0
Nashua	3.5	3.2	3.3	18.0	18.3	18.0	7.8	8.1	8.1
Portsmouth-Dover-Rochester	7.1	7.1	7.1	22.8	21.5	22.1	25.7	25.3	25.4
New Jersey	242.3	241.9	241.8	948.7	975.9	982.0	562.9	575.6	578.9
Atlantic City	6.9	6.8	6.9	75.1	80.0	82.6	26.3	26.3	26.6
Bergen-Passaic	39.1	39.1	39.2	159.0	164.5	164.3	68.5	70.4	70.5
Camden	25.3	24.9	24.9	111.7	115.5	115.9	74.9	76.9	77.8
Jersey City	16.6	16.2	16.2	48.7	50.5	50.7	39.6	40.6	41.1
Middlesex-Somerset-Hunterdon	39.4	38.3	38.1	116.9	118.6	119.3	74.3	77.6	78.2
Monmouth-Ocean	19.2	19.5	19.4	97.7	98.8	100.4	64.8	65.2	66.6
Newark	79.4	79.9	79.7	259.5	269.9	270.4	139.9	144.5	144.5
Trenton	10.5	10.6	10.6	59.8	60.5	60.9	56.3	57.2	57.6
Vineland-Millville-Bridgeton	3.7	3.9	3.9	10.4	10.4	10.4	11.6	12.1	12.2

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	Total			Mining			Construction		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
New Mexico	561.5	568.1	571.5	14.3	14.6	14.5	31.0	27.8	28.7
Albuquerque	241.1	242.6	243.9	(¹)	(¹)	(¹)	13.7	12.3	12.5
Las Cruces	42.7	44.8	44.9	(¹)	(¹)	(¹)	2.5	2.5	2.6
Santa Fe	55.9	57.6	58.7	(¹)	(¹)	(¹)	2.8	2.5	2.7
New York	8,287.8	8,285.6	8,332.1	5.9	5.8	5.9	338.4	311.5	322.0
Albany-Schenectady-Troy	427.1	434.6	437.1	.6	.6	.7	21.0	20.3	21.6
Binghamton	121.9	119.6	120.0	(¹)	(¹)	(¹)	5.3	5.0	5.2
Buffalo	461.5	462.3	466.1	(¹)	(¹)	(¹)	18.2	15.8	17.6
Elmira	41.5	42.1	42.4	(¹)	(¹)	(¹)	1.8	1.5	1.5
Glens Falls	48.0	47.0	48.1	(¹)	(¹)	(¹)	2.5	2.6	2.8
Nassau-Suffolk	1,149.4	1,143.7	1,153.5	(¹)	(¹)	(¹)	59.1	54.7	55.7
New York PMSA	4,154.3	4,151.4	4,161.0	(¹)	(¹)	(¹)	152.6	145.8	147.2
New York City	3,622.9	3,617.3	3,623.1	.4	.3	.3	120.4	114.6	115.2
Niagara Falls	85.1	84.8	86.7	(¹)	(¹)	(¹)	3.8	3.5	4.0
Orange County	108.0	107.8	109.2	(¹)	(¹)	(¹)	5.2	4.6	4.8
Poughkeepsie	121.2	121.1	121.4	(¹)	(¹)	(¹)	6.6	6.4	6.6
Rochester	492.4	490.7	495.1	.7	.6	.7	18.9	19.0	19.7
Rockland County	102.6	102.5	103.5	(¹)	(¹)	(¹)	5.3	5.0	5.2
Syracuse	311.3	314.7	316.3	(¹)	(¹)	(¹)	15.8	15.3	16.5
Utica-Rome	127.9	128.6	130.1	(¹)	(¹)	(¹)	4.4	3.6	4.1
Westchester County	409.8	412.7	415.2	(¹)	(¹)	(¹)	24.8	24.2	24.7
North Carolina	3,062.0	3,101.5	3,109.2	4.9	5.0	5.0	162.8	160.3	161.7
Asheville	84.7	87.9	89.0	(¹)	(¹)	(¹)	4.6	4.5	4.5
Charlotte-Gastonia-Rock Hill	612.8	630.9	634.6	(¹)	(¹)	(¹)	36.2	36.5	37.0
Greensboro-Winston-Salem-High Point	488.2	486.7	485.0	(¹)	(¹)	(¹)	24.8	24.6	24.8
Raleigh-Durham	417.2	428.5	427.2	(¹)	(¹)	(¹)	21.7	21.4	21.6
North Dakota	263.9	264.0	269.1	3.9	3.8	4.0	10.6	8.3	10.7
Bismarck	39.6	39.7	40.6	(¹)	(¹)	(¹)	2.1	1.6	2.1
Fargo-Moorhead	75.7	76.6	77.8	(¹)	(¹)	(¹)	3.7	3.3	3.9
Grand Forks	31.7	32.0	32.7	(¹)	(¹)	(¹)	1.4	1.1	1.3
Ohio	4,827.0	4,889.3	4,942.4	17.8	17.7	18.0	191.3	188.3	199.9
Akron	284.9	289.2	293.4	.5	.6	.6	10.0	9.9	10.5
Canton	164.7	165.5	167.8	.7	.8	.8	7.1	7.2	7.6
Cincinnati	722.9	744.8	752.4	.4	.4	.4	34.3	34.8	36.2
Cleveland	933.8	947.1	957.0	.8	.9	.9	33.2	32.0	34.5
Columbus	701.6	719.7	726.6	.8	.8	.9	29.3	29.0	30.5
Dayton-Springfield	448.3	456.1	459.0	.4	.4	.4	17.7	17.4	18.2
Toledo	295.8	297.1	299.1	.3	.2	.2	11.9	11.9	12.6
Youngstown-Warren	199.2	200.8	204.3	.4	.5	.5	7.8	7.5	8.1
Oklahoma	1,159.7	1,168.6	1,169.8	43.0	44.5	44.5	35.1	35.0	35.2
Enid	21.3	21.6	21.4	.9	.9	.9	.6	.6	.6
Lawton	34.5	34.8	35.0	.2	.2	.2	1.1	.9	.9
Oklahoma City	423.3	432.4	432.2	10.7	10.6	10.6	11.5	12.2	12.5
Tulsa	303.8	312.9	315.8	12.4	12.2	12.3	10.4	10.9	11.0
Oregon	1,205.4	1,237.1	1,251.5	1.4	1.3	1.4	45.5	48.9	50.1
Eugene-Springfield	114.9	119.3	120.8	.2	.2	.2	3.8	4.0	4.2
Portland	612.5	631.1	636.8	.4	.4	.4	25.4	26.8	27.4
Salem	103.1	104.9	106.5	.1	.1	.1	4.1	4.1	4.4
Pennsylvania	5,126.8	5,135.2	5,151.3	27.7	27.4	27.4	234.5	225.7	233.3
Allentown-Bethlehem	282.2	282.1	282.5	.6	.6	.6	13.8	12.6	12.7
Altoona	52.4	52.7	53.0	(¹)	(¹)	(¹)	2.6	2.4	2.6
Beaver County	49.8	49.3	49.8	(¹)	(¹)	(¹)	2.5	2.3	2.4
Erie	117.2	119.4	119.8	(¹)	(¹)	(¹)	3.7	3.7	4.1
Harrisburg-Lebanon-Carlisle	311.3	315.2	319.3	.4	.4	.4	14.1	14.8	15.1
Johnstown	80.4	80.2	80.7	2.6	2.6	2.6	2.9	2.6	2.9
Lancaster	189.8	190.0	191.8	.4	.4	.5	12.0	12.0	12.4
Philadelphia PMSA	2,199.9	2,195.5	2,205.3	1.1	1.1	1.1	105.3	100.6	104.2
Philadelphia City	762.2	762.3	761.0	(¹)	(¹)	(¹)	17.6	17.0	17.3
Pittsburgh	896.2	909.5	918.3	4.5	4.6	4.6	41.4	39.2	41.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
New Mexico	41.5	42.4	42.7	29.1	28.8	28.5	134.7	133.5	135.4
Albuquerque	21.2	21.0	21.1	12.6	12.5	12.6	60.3	60.5	61.0
Las Cruces	3.5	3.5	3.6	1.5	1.5	1.5	8.9	9.2	9.2
Santa Fe	1.7	1.7	1.7	.9	1.0	1.0	10.9	10.8	11.1
New York	1,194.6	1,161.4	1,161.0	417.9	419.9	423.5	1,729.3	1,710.2	1,727.4
Albany-Schenectady-Troy	47.0	47.1	47.2	17.4	17.4	17.6	91.1	92.4	93.1
Binghamton	36.2	33.9	33.9	4.4	4.5	4.5	25.4	25.2	25.3
Buffalo	77.4	76.3	76.2	22.1	21.9	22.2	117.7	117.5	119.0
Elmira	9.1	8.6	8.6	1.4	1.4	1.4	10.8	10.7	10.9
Glens Falls	10.6	10.0	10.0	1.6	1.6	1.7	11.4	11.5	11.9
Nassau-Suffolk	162.5	156.2	155.5	49.9	50.7	51.3	300.8	296.3	300.6
New York PMSA	438.4	425.0	425.0	244.6	245.2	246.2	753.1	744.7	748.9
New York City	362.8	349.6	349.2	218.8	219.6	220.6	631.8	623.7	627.0
Niagara Falls	23.9	23.8	23.8	4.0	3.9	4.2	20.3	20.4	21.0
Orange County	14.9	13.4	13.4	6.5	6.8	6.9	29.9	29.6	30.1
Poughkeepsie	29.9	29.0	29.1	3.8	3.7	3.7	22.2	22.1	22.2
Rochester	138.7	131.3	131.5	15.3	15.5	15.7	105.3	108.1	109.1
Rockland County	15.0	14.6	14.6	4.9	5.2	5.2	23.4	23.3	23.6
Syracuse	53.7	52.6	52.5	18.7	19.2	19.2	75.1	75.7	76.8
Utica-Rome	24.7	23.9	23.5	4.4	4.4	4.4	27.9	27.9	28.5
Westchester County	58.5	58.8	59.0	20.2	19.7	19.7	93.4	93.3	93.9
North Carolina	865.1	853.8	849.7	151.0	153.6	154.1	709.1	724.5	728.6
Asheville	19.8	20.1	20.1	4.1	4.3	4.3	20.4	22.0	22.1
Charlotte-Gastonia-Rock Hill	154.3	153.3	153.2	49.3	50.3	50.5	153.1	157.2	158.1
Greensboro-Winston-Salem-High Point	151.0	146.3	145.2	26.3	25.9	25.9	111.6	111.6	111.7
Raleigh-Durham	62.1	62.8	63.2	19.9	21.1	21.3	89.7	90.8	91.1
North Dakota	16.2	16.9	17.0	17.1	16.9	17.1	70.5	70.0	71.0
Bismarck	2.2	2.2	2.3	2.8	3.0	3.0	10.4	10.2	10.4
Fargo-Moorhead	5.2	5.6	5.6	4.8	4.7	4.7	21.8	21.4	21.7
Grand Forks	1.7	1.6	1.6	1.7	1.7	1.7	8.9	9.4	9.5
Ohio	1,124.2	1,118.4	1,121.1	215.1	216.5	218.5	1,161.9	1,191.5	1,207.8
Akron	68.1	67.5	67.6	13.1	13.4	13.5	70.3	72.1	73.0
Canton	46.2	44.1	44.7	5.7	5.6	5.7	40.7	41.8	42.4
Cincinnati	144.7	147.8	148.4	38.9	40.6	40.9	187.4	197.6	199.5
Cleveland	207.1	206.7	207.0	42.0	42.6	43.0	223.4	229.0	232.0
Columbus	104.4	104.8	105.2	30.6	31.2	31.3	179.5	185.6	188.3
Dayton-Springfield	104.8	104.0	104.5	17.3	18.2	18.3	100.3	102.6	103.8
Toledo	62.5	59.9	59.5	14.1	14.4	14.6	74.3	75.5	76.4
Youngstown-Warren	50.7	49.3	49.9	7.7	7.8	8.0	52.6	54.6	55.3
Oklahoma	162.2	164.5	164.2	65.0	65.7	65.7	278.4	278.7	281.1
Enid	1.6	1.5	1.5	2.1	2.1	2.1	6.3	6.2	6.3
Lawton	3.4	3.4	3.5	1.9	1.7	1.7	8.4	8.7	8.7
Oklahoma City	49.2	48.5	47.5	20.9	21.0	21.0	104.5	103.8	103.8
Tulsa	51.9	53.7	54.1	24.0	24.7	24.9	73.1	74.6	75.3
Oregon	212.7	213.8	216.6	62.4	64.0	64.1	305.1	316.2	319.8
Eugene-Springfield	21.0	20.4	20.5	4.4	4.5	4.5	28.7	30.3	30.6
Portland	100.9	101.9	102.9	36.8	37.6	37.7	161.6	167.3	169.4
Salem	13.8	14.0	14.3	2.8	2.8	2.8	23.1	23.4	23.6
Pennsylvania	1,051.2	1,028.4	1,028.7	257.1	253.7	253.0	1,174.5	1,170.5	1,172.1
Allentown-Bethlehem	75.7	74.4	74.4	14.3	13.8	13.9	62.0	62.2	62.0
Altoona	10.4	10.3	10.2	4.7	4.5	4.5	14.0	14.2	14.3
Beaver County	9.1	8.9	8.9	5.2	5.1	5.1	11.6	11.5	11.5
Erie	35.6	36.6	36.4	4.4	4.4	4.4	25.5	25.3	25.5
Harrisburg-Lebanon-Carlisle	51.6	50.5	50.9	19.5	19.1	19.3	71.3	71.9	72.3
Johnstown	14.7	14.6	14.6	5.2	5.2	5.2	17.2	17.0	17.3
Lancaster	59.1	57.8	57.8	7.8	7.5	7.7	46.6	46.9	47.4
Philadelphia PMSA	364.7	356.1	357.0	100.7	98.7	98.9	511.4	507.4	510.4
Philadelphia City	86.9	83.3	84.1	42.3	41.2	40.8	147.4	146.7	146.6
Pittsburgh	123.4	122.4	123.1	48.1	49.4	49.7	226.7	224.9	228.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
New Mexico	26.3	26.7	26.7	138.5	141.2	141.5	146.1	153.1	153.5
Albuquerque	14.3	14.3	14.4	70.7	71.6	72.2	48.2	50.3	50.0
Las Cruces	1.7	1.7	1.7	7.3	7.8	7.7	17.2	18.5	18.5
Santa Fe	2.1	2.1	2.1	14.8	15.3	15.5	22.6	24.1	24.5
New York	791.7	785.0	787.4	2,343.8	2,401.0	2,411.6	1,466.3	1,490.7	1,493.2
Albany-Schenectady-Troy	24.5	25.0	25.1	111.4	114.9	114.9	114.1	116.9	117.0
Binghamton	4.2	4.2	4.2	24.5	24.7	24.8	21.8	22.1	22.2
Buffalo	28.4	28.5	28.5	121.8	126.0	126.5	75.9	76.3	76.0
Elmira	1.4	1.4	1.4	10.0	10.9	11.0	7.0	7.6	7.6
Glens Falls	1.7	1.6	1.6	10.8	10.0	10.5	9.4	9.5	9.5
Nassau-Suffolk	82.6	84.0	84.2	306.7	310.7	315.6	187.7	191.1	190.7
New York PMSA	566.0	556.9	558.2	1,309.2	1,334.7	1,335.7	690.4	699.1	699.9
New York City	529.7	520.3	521.7	1,152.1	1,174.6	1,174.3	606.8	614.7	614.8
Niagara Falls	2.0	2.0	2.0	17.9	18.1	18.5	13.2	13.0	13.2
Orange County	4.7	4.8	4.9	23.2	23.9	24.7	23.6	24.8	24.9
Poughkeepsie	4.9	4.9	4.9	29.0	29.2	29.7	24.8	25.8	25.8
Rochester	22.8	23.0	23.2	122.3	124.3	125.9	68.4	68.8	69.5
Rockland County	5.4	5.4	5.4	26.7	27.1	27.3	21.8	21.9	22.1
Syracuse	19.9	19.9	20.1	75.2	78.1	77.3	52.9	53.9	53.8
Utica-Rome	7.3	7.6	7.7	27.9	28.4	28.7	31.3	32.7	33.2
Westchester County	30.2	30.4	30.2	125.0	127.8	128.8	57.7	58.5	58.8
North Carolina	131.6	132.4	132.6	556.1	579.3	581.0	481.4	492.6	496.5
Asheville	2.8	2.9	2.9	20.2	20.6	20.8	12.8	13.5	14.3
Charlotte-Gastonia-Rock Hill	37.5	38.4	38.4	114.5	121.4	121.8	67.9	73.8	75.6
Greensboro-Winston-Salem-High Point	23.5	23.7	23.6	96.6	98.1	98.1	54.4	56.5	55.7
Raleigh-Durham	23.5	23.8	23.8	107.3	111.5	110.9	93.0	97.1	95.3
North Dakota	12.2	12.5	12.5	66.1	67.9	68.4	67.3	67.7	68.4
Bismarck	1.5	1.5	1.5	11.7	12.1	12.1	8.9	9.1	9.2
Fargo-Moorhead	4.5	4.5	4.6	21.0	22.0	22.2	14.7	15.1	15.1
Grand Forks	1.1	1.2	1.2	7.2	7.1	7.3	9.7	9.9	10.1
Ohio	251.2	255.5	257.0	1,142.5	1,167.6	1,180.4	723.0	733.7	739.8
Akron	10.4	10.5	10.6	66.0	68.5	70.6	46.4	46.6	47.0
Canton	6.8	6.8	6.8	38.1	39.4	39.7	19.4	19.9	20.2
Cincinnati	42.7	42.7	42.9	182.5	187.2	190.0	91.9	93.5	94.1
Cleveland	56.5	57.3	57.8	251.9	258.0	260.8	118.7	120.6	121.3
Columbus	59.4	60.4	60.7	170.5	177.8	179.5	127.1	130.1	130.4
Dayton-Springfield	17.7	17.5	17.6	112.6	117.2	116.6	77.4	78.8	79.5
Toledo	12.2	12.0	12.0	75.5	77.6	78.2	45.1	45.5	45.6
Youngstown-Warren	8.6	8.7	8.8	46.3	47.4	48.1	25.0	24.9	25.8
Oklahoma	58.5	55.5	55.5	256.8	264.6	262.7	260.7	260.1	260.9
Enid .....	.9	.9	.9	5.1	5.4	5.1	3.8	4.0	4.0
Lawton	1.6	1.8	1.8	6.1	6.1	6.1	11.8	12.0	12.1
Oklahoma City	24.5	24.1	24.1	102.7	108.0	108.3	99.3	104.2	104.4
Tulsa	16.5	17.6	17.8	78.5	82.0	82.9	37.0	37.2	37.5
Oregon	75.5	75.5	76.5	280.8	290.7	292.5	222.0	226.7	230.5
Eugene-Springfield	5.4	5.8	5.8	27.1	29.1	29.4	24.3	25.0	25.6
Portland	49.3	50.0	50.2	154.9	160.5	161.2	83.2	86.6	87.6
Salem	5.3	5.4	5.4	22.3	22.7	23.0	31.6	32.4	32.9
Pennsylvania	296.1	295.9	296.8	1,378.8	1,409.1	1,412.2	706.9	724.5	727.8
Allentown-Bethlehem	14.3	14.4	14.4	70.2	71.7	71.5	31.3	32.4	33.0
Altoona	1.9	1.9	1.9	11.5	11.9	11.9	7.3	7.5	7.6
Beaver County	1.6	1.6	1.6	11.8	11.8	12.1	8.0	8.1	8.2
Erie	5.6	5.6	5.6	27.9	29.3	29.1	14.5	14.5	14.7
Harrisburg-Lebanon-Carlisle	19.7	21.4	21.6	67.9	69.0	71.2	66.8	68.1	68.5
Johnstown	4.5	4.4	4.4	20.4	20.8	20.7	12.9	13.0	13.0
Lancaster	7.2	7.3	7.4	39.9	41.1	41.1	16.8	17.0	17.5
Philadelphia PMSA	160.0	159.4	159.8	651.6	662.8	662.9	305.1	309.4	311.0
Philadelphia City	70.0	69.2	69.4	257.4	262.0	259.1	140.6	142.9	143.7
Pittsburgh	53.5	55.1	55.4	291.5	302.3	304.6	107.1	111.6	111.6

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		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Pennsylvania-Continued									
Reading	154.4	156.5	157.0	(¹)	(¹)	(¹)	7.3	7.5	7.8
Scranton-Wilkes-Barre	304.1	308.5	310.2	0.6	0.6	0.6	14.9	14.2	15.1
Sharon	43.9	43.3	44.3	(¹)	(¹)	(¹)	1.3	1.4	1.6
State College	59.5	61.8	61.5	.4	.3	.3	3.0	3.4	3.7
Williamsport	52.0	52.5	52.4	(¹)	(¹)	(¹)	2.5	2.6	2.7
York	180.2	181.2	182.2	.5	.4	.4	10.6	11.0	11.3
Rhode Island									
Pawtucket-Woonsocket-Attleboro	464.2	457.6	459.0	.2	.1	.1	20.8	18.7	18.9
Providence	132.0	132.3	132.3	.2	.2	.2	5.4	4.7	5.0
Providence	326.6	329.5	330.4	.1	.1	.1	15.3	14.7	14.9
South Carolina									
Charleston	1,506.4	1,546.4	1,555.0	1.9	1.8	1.8	90.3	100.4	101.1
Columbia	198.8	205.9	208.8	(¹)	(¹)	(¹)	13.2	14.9	15.1
Greenville-Spartanburg	242.9	241.3	243.2	(¹)	(¹)	(¹)	14.9	15.0	15.3
Greenville-Spartanburg	332.6	339.1	339.9	(¹)	(¹)	(¹)	22.5	23.3	23.7
South Dakota									
Rapid City	276.3	278.5	282.3	2.7	2.7	2.8	10.2	9.4	10.4
Sioux Falls	36.7	37.0	37.8	.2	.3	.3	1.8	1.7	1.9
Sioux Falls	70.7	72.2	73.4	(¹)	(¹)	(¹)	3.0	3.1	3.3
Tennessee									
Chattanooga	2,158.3	2,174.9	2,182.0	6.4	6.5	6.4	97.9	97.5	98.3
Johnson City-Kingsport-Bristol	195.0	197.8	197.1	.7	.8	.8	7.6	8.3	8.1
Knoxville	167.7	171.8	170.7	(¹)	(¹)	(¹)	7.5	7.8	8.0
Memphis	266.9	263.1	265.1	1.8	1.9	1.9	15.1	14.4	14.7
Nashville	461.2	466.9	467.9	(¹)	(¹)	(¹)	19.3	19.3	19.6
Nashville	496.2	494.3	495.7	(¹)	(¹)	(¹)	25.1	24.1	24.0
Texas									
Abilene	6,808.7	6,918.2	6,919.6	173.0	175.8	177.0	317.0	315.3	318.5
Amarillo	48.8	48.9	49.2	1.5	1.4	1.5	1.6	1.4	1.6
Austin	77.5	77.2	77.8	1.4	1.1	1.1	3.5	3.2	3.4
Beaumont-Port Arthur	364.0	370.3	369.8	.6	.6	.6	11.2	10.8	10.8
Brazoria	135.1	138.8	139.1	1.4	1.6	1.6	9.5	10.2	10.5
Brownsville-Harlingen	62.9	64.1	64.8	2.1	2.0	2.0	8.6	9.0	9.4
Bryan-College Station	73.3	76.2	75.9	(¹)	(¹)	(¹)	2.0	2.0	2.0
Corpus Christi	52.4	54.4	53.0	.5	.5	.5	1.7	1.5	1.6
Dallas	127.1	129.1	129.1	3.6	3.5	3.5	8.4	9.8	10.0
El Paso	1,345.9	1,357.7	1,359.5	17.6	17.2	17.2	47.6	44.2	44.6
Ft. Worth-Arlington	201.4	207.0	207.4	(¹)	(¹)	(¹)	7.8	8.3	8.2
Galveston-Texas City	562.0	575.6	575.4	4.0	3.9	3.9	21.0	21.0	21.0
Houston	75.7	75.2	75.4	.5	.6	.6	6.8	6.4	6.3
Killeen-Temple	1,495.1	1,537.8	1,541.6	64.5	67.8	67.8	94.2	99.0	100.5
Laredo	73.1	74.6	75.2	(¹)	(¹)	(¹)	3.4	3.2	3.2
Longview-Marshall	41.4	43.8	44.2	1.6	1.7	1.7	1.2	1.2	1.3
Lubbock	66.9	68.8	68.7	3.3	3.4	3.4	2.9	3.6	3.6
McAllen-Edinburg-Mission	94.9	96.5	97.1	.3	.3	.3	3.0	2.9	3.1
Midland	97.3	99.5	100.5	.9	.9	.9	4.2	4.4	4.4
Odessa	44.7	44.7	44.7	8.8	8.6	8.5	1.4	1.3	1.3
San Angelo	42.6	42.3	42.6	5.0	4.9	5.0	1.9	2.0	2.0
San Antonio	37.1	36.0	36.1	.5	.6	.6	1.2	1.1	1.1
Sherman-Denison	517.8	517.4	519.1	2.1	2.1	2.1	21.9	20.1	20.4
Texas	36.9	37.1	37.1	(¹)	(¹)	(¹)	1.5	1.7	1.6
Tyler	46.1	46.9	47.1	.1	.1	.1	1.6	1.5	1.5
Victoria	61.8	62.3	62.2	1.6	1.7	1.7	1.7	1.8	1.8
Waco	27.5	28.3	28.5	1.3	1.3	1.4	1.5	1.9	1.8
Wichita Falls	80.6	82.7	82.3	(¹)	(¹)	(¹)	3.1	2.9	3.0
Wichita Falls	50.8	50.4	50.4	1.5	1.4	1.4	1.6	1.6	1.6

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		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Pennsylvania-Continued									
Reading	47.8	47.1	46.6	6.6	6.7	6.5	34.4	34.7	35.2
Scranton-Wilkes-Barre	71.2	70.9	70.6	16.0	16.4	16.3	71.9	73.1	73.6
Sharon	11.7	10.9	11.4	1.9	1.9	1.9	10.7	10.6	10.8
State College	8.2	8.2	8.1	1.6	1.6	1.5	11.3	11.6	11.6
Williamsport	16.3	15.7	15.6	1.8	1.9	1.9	11.7	11.8	11.9
York	61.1	58.8	58.5	7.6	7.4	7.5	43.2	44.6	44.8
Rhode Island	109.2	105.2	104.9	15.8	15.3	15.6	106.8	106.1	106.7
Pawtucket-Woonsocket-Attleboro	49.4	48.4	48.0	3.8	3.9	3.9	33.0	34.5	34.6
Providence	69.7	68.3	68.0	11.9	11.6	11.3	71.9	72.8	73.0
South Carolina	390.4	389.5	389.9	63.3	64.5	64.6	340.0	346.4	350.6
Charleston	20.8	20.9	21.0	9.9	10.4	10.3	49.6	51.9	53.3
Columbia	29.1	28.5	28.7	10.9	11.1	11.2	54.2	53.6	54.1
Greenville-Spartanburg	104.4	101.7	101.5	13.1	13.3	13.4	76.9	79.3	80.0
South Dakota	32.0	31.8	32.2	13.7	13.4	13.4	73.2	73.8	73.9
Rapid City	3.6	3.8	3.8	2.0	2.0	2.0	10.6	10.7	10.9
Sioux Falls	8.5	8.5	8.6	5.2	5.2	5.2	19.8	20.0	20.5
Tennessee	524.6	522.6	522.8	115.2	115.0	115.4	507.3	506.7	508.8
Chattanooga	47.4	47.1	47.2	8.0	7.9	7.9	47.0	45.6	45.4
Johnson City-Kingsport-Bristol	53.4	54.0	53.2	6.1	6.2	6.2	38.4	38.6	38.2
Knoxville	52.6	49.6	49.1	11.0	10.6	10.7	68.9	67.6	68.2
Memphis	61.1	62.3	62.4	47.0	46.7	46.8	124.6	125.7	126.4
Nashville	90.6	89.8	90.3	27.0	26.8	26.6	120.7	116.4	116.4
Texas	969.5	963.3	959.8	398.2	412.2	414.7	1,683.6	1,689.8	1,693.4
Abilene	4.8	5.0	5.0	2.6	2.7	2.7	13.2	13.1	13.2
Amarillo	9.1	9.0	8.9	5.6	5.6	5.7	22.4	21.7	21.8
Austin	43.5	45.3	45.5	11.2	11.1	11.2	78.1	77.7	78.0
Beaumont-Port Arthur	24.6	25.0	24.8	9.8	9.9	9.9	32.2	32.6	32.6
Brazoria	16.0	16.4	16.4	2.5	2.5	2.6	11.5	11.6	11.7
Brownsville-Harlingen	10.5	10.8	10.8	3.1	3.1	3.1	19.8	20.5	20.3
Bryan-College Station	3.6	3.7	3.7	1.3	1.4	1.4	11.5	11.9	11.6
Corpus Christi	11.7	11.6	11.6	6.7	6.7	6.6	32.0	32.1	32.1
Dallas	223.8	220.9	221.0	76.8	80.1	80.2	345.1	353.9	354.7
El Paso	40.7	39.8	39.5	10.4	10.5	10.6	50.3	52.0	52.5
Ft. Worth-Arlington	119.5	121.3	118.4	51.1	55.2	55.5	143.8	144.6	145.8
Galveston-Texas City	8.9	9.0	9.0	4.7	5.0	5.1	14.3	14.1	14.2
Houston	161.4	163.3	163.6	105.8	106.5	107.0	364.8	366.7	369.3
Killeen-Temple	8.5	8.7	8.8	2.7	2.7	2.7	16.8	16.5	16.8
Laredo	1.7	1.8	1.8	5.6	6.1	6.1	13.1	14.0	14.2
Longview-Marshall	16.0	16.3	16.3	3.3	3.4	3.5	17.1	16.8	16.9
Lubbock	7.3	7.2	7.2	5.1	5.8	5.8	27.6	27.7	27.9
McAllen-Edinburg-Mission	12.9	12.4	12.6	3.1	2.9	2.9	30.0	31.0	31.9
Midland	2.4	2.3	2.3	2.3	2.3	2.3	10.7	10.9	11.0
Odessa	4.0	4.1	4.1	1.9	1.9	1.9	12.6	12.5	12.6
San Angelo	5.5	5.0	5.0	2.8	2.6	2.6	9.1	8.8	8.8
San Antonio	48.6	47.5	46.2	19.5	19.6	19.6	131.1	130.0	131.3
Sherman-Denison	10.8	10.8	10.9	1.7	1.3	1.3	8.0	8.0	8.0
Texarkana	7.1	7.1	7.2	2.3	2.3	2.3	10.7	10.7	10.7
Tyler	10.8	10.8	10.8	2.7	2.8	2.8	16.3	16.3	16.3
Victoria	2.9	3.1	3.1	1.3	1.3	1.3	7.6	7.5	7.6
Waco	15.5	16.2	16.2	3.4	3.5	3.5	18.5	18.7	18.7
Wichita Falls	8.5	8.0	7.9	2.6	2.6	2.6	11.9	11.8	11.8

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		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Pennsylvania-Continued									
Reading	8.8	8.7	9.0	31.8	32.9	32.9	17.7	18.9	18.9
Scranton-Wilkes-Barre	12.9	13.3	13.4	74.7	76.8	76.8	41.9	43.2	43.8
Sharon	1.4	1.4	1.4	11.8	11.9	11.9	5.1	5.2	5.3
State College	1.8	1.9	1.9	10.4	10.9	10.9	22.8	23.9	23.4
Williamsport	2.4	2.4	2.4	10.1	10.8	10.5	7.2	7.3	7.4
York	5.0	5.1	5.1	33.3	34.6	34.7	18.9	19.3	19.9
Rhode Island									
Pawtucket-Woonsocket-Attleboro	3.8	4.0	4.0	26.2	26.5	26.5	10.2	10.1	10.1
Providence	22.0	21.7	22.0	92.0	94.9	95.0	43.7	45.4	45.6
South Carolina									
Charleston	8.7	8.9	9.0	42.5	44.8	45.7	54.1	54.1	54.4
Columbia	18.5	18.4	18.5	48.2	47.3	47.8	67.1	67.4	67.6
Greenville-Spartanburg	12.3	12.3	12.4	61.9	66.2	66.9	41.5	43.0	42.0
South Dakota									
Rapid City	1.6	1.5	1.5	9.5	9.5	9.8	7.3	7.5	7.6
Sioux Falls	7.2	7.7	7.8	19.3	19.4	19.7	7.7	8.3	8.3
Tennessee									
Chattanooga	103.8	103.1	103.6	466.0	476.5	478.2	337.0	347.0	348.5
Johnson City-Kingsport-Bristol	12.5	13.1	13.1	38.6	40.7	41.0	33.2	34.3	33.6
Knoxville	5.4	5.3	5.3	32.2	33.0	33.1	24.5	26.9	26.7
Memphis	10.1	9.9	10.0	56.9	57.5	58.7	50.5	51.6	51.8
Nashville	25.9	26.2	26.4	107.5	110.0	110.5	75.8	76.7	75.8
Nashville	32.6	32.1	32.3	130.4	135.0	135.2	69.8	70.1	70.9
Texas									
Abilene	432.4	433.0	432.7	1,603.1	1,654.4	1,653.3	1,231.9	1,274.4	1,270.2
Amarillo	2.3	2.2	2.2	13.7	14.1	14.0	9.1	9.0	9.0
Austin	4.1	3.9	3.9	17.0	17.3	17.5	14.4	15.4	15.5
Beaumont-Port Arthur	23.5	23.7	23.7	90.4	92.1	92.4	105.5	109.0	107.6
Brazoria	5.3	5.3	5.3	31.2	32.7	32.9	21.1	21.5	21.5
Brownsville-Harlingen	1.8	1.8	1.8	8.9	9.1	9.1	11.5	11.7	11.8
Bryan-College Station	3.7	3.8	3.8	16.9	18.0	18.0	17.3	18.0	17.9
Corpus Christi	1.7	1.7	1.6	9.2	9.1	9.2	22.9	24.6	23.4
Dallas	6.4	6.3	6.2	29.7	30.5	30.5	28.6	28.6	28.6
El Paso	129.6	129.2	128.7	348.0	349.0	350.3	157.4	163.2	162.8
Ft. Worth-Arlington	8.5	8.4	8.4	41.5	42.8	42.9	42.2	45.2	45.3
Galveston-Texas City	27.8	27.7	27.6	123.5	126.9	128.1	71.3	75.0	75.1
Houston	4.6	4.5	4.5	13.7	13.9	13.9	22.2	21.7	21.8
Killeen-Temple	101.5	101.9	101.8	407.8	427.6	427.8	195.1	205.0	203.8
Laredo	3.0	3.2	3.2	16.9	17.5	17.7	21.8	22.8	22.8
Longview-Marshall	1.7	1.9	1.9	6.8	7.3	7.3	9.7	9.8	9.9
Lubbock	2.7	2.7	2.7	12.7	13.7	13.4	8.9	8.9	8.9
McAllen-Edinburg-Mission	5.3	5.4	5.4	24.0	23.8	23.9	22.3	23.4	23.5
Midland	4.1	4.3	4.3	16.2	16.7	16.6	25.9	26.9	26.9
Odessa	2.4	2.4	2.4	9.7	9.6	9.6	7.0	7.3	7.3
San Angelo	1.6	1.5	1.5	7.7	7.5	7.6	7.9	7.9	7.9
San Antonio	1.7	1.6	1.6	9.1	8.6	8.7	7.2	7.7	7.7
Sherman-Denison	40.5	41.2	40.9	133.6	134.4	135.8	120.5	122.5	122.6
Texas	1.9	2.0	2.0	8.6	8.9	8.9	4.4	4.4	4.4
Tyler	1.8	1.8	1.8	10.0	10.7	10.8	12.5	12.7	12.7
Victoria	3.4	3.5	3.5	14.9	15.3	15.2	10.4	10.1	10.1
Waco	1.6	1.5	1.5	6.1	5.8	5.8	5.2	5.9	6.0
Wichita Falls	5.1	5.1	5.1	21.8	22.9	22.4	13.2	13.4	13.4
Wichita Falls	2.3	2.4	2.3	12.5	12.7	12.8	9.9	9.9	10.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Utah	689.0	715.3	723.1	7.9	8.6	8.7	26.7	25.5	27.5
Provo-Orem	84.6	91.2	88.7	(¹)	(¹)	(¹)	2.9	2.6	2.8
Salt Lake City-Ogden	474.2	488.3	494.9	2.6	2.7	2.7	18.5	18.6	19.8
Vermont	260.7	256.1	258.0	.6	.5	.5	18.5	15.5	16.2
Barre-Montpelier	34.7	34.0	34.4	(¹)	(¹)	(¹)	2.5	2.5	2.6
Burlington	81.3	81.5	81.9	(¹)	(¹)	(¹)	5.5	4.7	4.5
Virginia	2,868.2	2,915.8	2,935.5	14.4	16.3	16.5	197.8	194.4	196.2
Bristol	33.5	33.3	33.5	(¹)	(¹)	(¹)	1.1	1.0	1.0
Charlottesville	71.9	78.5	78.6	(¹)	(¹)	(¹)	4.3	4.3	4.4
Danville	42.0	42.4	42.3	(¹)	(¹)	(¹)	2.2	2.1	2.2
Lynchburg	76.9	77.8	78.2	(¹)	(¹)	(¹)	3.7	3.6	3.8
Norfolk-Virginia Beach-Newport News	583.0	590.7	595.8	(¹)	(¹)	(¹)	37.1	36.8	37.1
Northern Virginia	774.6	782.4	788.8	.5	.5	.6	63.6	56.6	57.0
Richmond-Petersburg	468.5	473.7	474.4	.8	.8	.8	30.8	30.1	30.0
Roanoke	125.8	126.6	127.7	(¹)	(¹)	(¹)	7.9	7.5	7.6
Washington	2,042.0	2,119.1	2,141.2	3.7	3.7	3.8	105.6	113.4	117.5
Seattle	1,047.9	1,088.9	1,098.7	.6	.6	.6	55.7	56.6	58.6
West Virginia	617.8	622.2	639.4	34.9	35.7	36.2	24.4	22.7	23.8
Charleston	108.3	111.0	113.7	1.9	2.0	2.0	4.7	4.9	4.9
Huntington-Ashland	108.9	111.0	112.0	1.4	1.5	1.5	4.6	5.6	5.7
Parkersburg-Marietta	60.8	61.7	62.8	.5	.5	.5	3.0	3.4	3.4
Wheeling	60.2	61.2	62.6	2.2	2.5	2.5	2.0	2.0	2.2
Wisconsin	2,234.4	2,255.9	2,277.6	2.5	2.3	2.5	82.5	79.4	85.2
Appleton-Oshkosh-Neenah	155.8	158.6	159.7	(¹)	(¹)	(¹)	7.1	6.9	7.4
Eau Claire	61.1	62.1	62.5	(¹)	(¹)	(¹)	2.0	2.0	2.3
Green Bay	100.3	103.0	103.7	(¹)	(¹)	(¹)	4.2	4.8	5.3
Janesville-Beloit	58.5	59.4	60.0	(¹)	(¹)	(¹)	2.0	2.0	2.1
Kenosha	40.1	39.6	39.9	(¹)	(¹)	(¹)	1.8	1.3	1.5
La Crosse	54.0	54.0	54.4	(¹)	(¹)	(¹)	1.9	1.8	1.9
Madison	212.9	217.1	218.4	(¹)	(¹)	(¹)	8.3	8.1	8.4
Milwaukee	744.4	759.9	764.4	(¹)	(¹)	(¹)	26.8	26.8	27.8
Racine	76.2	77.7	78.6	(¹)	(¹)	(¹)	2.4	2.5	2.5
Sheboygan	51.6	52.1	52.5	(¹)	(¹)	(¹)	1.7	1.5	1.6
Wausau	52.6	54.1	54.4	(¹)	(¹)	(¹)	2.1	1.9	1.9
Wyoming	194.9	190.2	196.1	17.0	16.7	17.0	10.6	9.5	10.5
Casper	27.6	27.9	28.4	2.2	2.3	2.4	1.6	1.6	1.6
Puerto Rico	835.1	837.8	842.1	.9	.9	.9	44.3	43.9	45.0
Caguas	53.2	52.0	52.3	(¹)	(¹)	(¹)	1.5	1.2	1.3
Mayaguez	60.6	59.0	59.2	(¹)	(¹)	(¹)	2.5	2.3	2.3
Ponce	55.3	58.1	58.1	(¹)	(¹)	(¹)	4.0	4.2	4.4
San Juan	513.7	516.0	519.7	.5	.5	.5	32.2	32.2	33.0
Virgin Islands	42.8	41.2	41.4	(¹)	(¹)	(¹)	2.5	2.5	2.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Utah	101.9	104.5	105.4	40.4	42.4	42.5	164.8	171.5	175.4
Provo-Orem	13.2	13.1	13.2	2.7	2.8	2.7	19.6	20.6	20.5
Salt Lake City-Ogden	65.9	67.3	67.5	30.9	31.9	32.2	118.1	121.3	123.2
Vermont	48.6	45.2	45.5	10.8	10.7	10.8	61.4	60.1	60.5
Barre-Montpelier	4.9	4.8	4.9	.8	.9	.9	7.6	7.3	7.3
Burlington	16.5	15.2	15.2	3.4	3.7	3.8	20.1	19.9	20.0
Virginia	428.1	421.6	422.3	148.0	152.7	153.4	653.7	659.1	666.3
Bristol	10.8	10.6	10.6	1.3	1.2	1.2	8.6	8.8	8.9
Charlottesville	9.0	9.1	9.0	2.7	2.8	2.7	14.4	15.0	15.2
Danville	16.7	16.2	16.0	1.0	1.1	1.1	9.0	9.3	9.4
Lynchburg	23.9	23.6	23.6	2.9	2.8	2.7	17.2	17.3	17.8
Norfolk-Virginia Beach-Newport News	68.8	67.2	67.8	26.8	27.3	27.5	143.9	144.3	145.6
Northern Virginia	35.3	35.2	34.8	52.7	54.9	55.2	172.1	175.4	177.8
Richmond-Petersburg	64.6	62.8	63.0	24.2	24.2	24.4	111.3	110.8	111.7
Roanoke	19.9	19.8	19.6	8.1	7.8	7.9	34.1	33.9	34.2
Washington	359.8	363.4	363.7	106.1	110.2	111.4	498.1	516.6	523.7
Seattle	213.3	218.6	217.6	64.4	68.5	69.2	252.0	260.9	263.7
West Virginia	87.7	87.3	87.6	36.8	36.6	37.0	144.6	144.2	145.7
Charleston	10.5	11.0	11.0	8.9	9.1	9.1	28.4	28.8	29.1
Huntington-Ashland	20.3	20.6	20.4	8.2	8.1	8.1	27.2	27.3	27.6
Parkersburg-Marietta	14.1	14.0	14.0	2.5	2.6	2.6	15.1	15.0	15.2
Wheeling	7.4	7.4	7.4	3.3	3.5	3.5	16.4	16.7	16.9
Wisconsin	551.5	551.9	554.2	100.6	99.0	101.0	530.8	534.3	543.7
Appleton-Oshkosh-Neenah	53.7	53.9	54.0	5.3	5.5	5.6	33.6	34.6	35.2
Eau Claire	11.7	10.9	10.8	3.3	3.4	3.3	16.8	17.1	17.4
Green Bay	24.0	23.9	24.1	7.3	7.3	7.4	26.1	26.5	26.6
Janesville-Beloit	18.1	17.6	17.7	2.4	2.3	2.3	14.1	13.6	14.0
Kenosha	10.3	9.6	9.5	1.3	1.7	1.5	10.1	10.3	10.6
La Crosse	10.3	10.2	10.2	2.3	2.4	2.4	14.7	14.2	14.3
Madison	24.9	25.1	25.4	7.0	6.7	6.8	48.4	49.6	50.1
Milwaukee	174.0	174.1	174.0	36.3	36.3	36.9	171.2	175.7	177.4
Racine	26.4	26.4	26.4	2.4	2.2	2.3	17.7	18.2	18.5
Sheboygan	21.6	21.9	22.0	1.6	1.6	1.6	9.6	9.6	9.8
Wausau	14.9	15.0	15.1	2.9	3.0	3.1	13.2	13.8	14.0
Wyoming	8.5	8.4	8.6	14.4	14.2	14.4	44.4	43.3	45.0
Casper	1.6	1.6	1.7	1.6	1.7	1.7	7.8	7.8	7.9
Puerto Rico	158.4	158.3	156.3	18.8	19.3	19.2	153.3	154.2	158.1
Caguas	15.4	14.7	14.6	.4	.4	.4	11.2	11.2	11.4
Mayaguez	21.5	20.4	20.4	.4	.5	.5	8.4	8.4	8.6
Ponce	10.4	10.7	10.5	2.0	2.0	1.8	9.1	8.9	9.0
San Juan	66.1	67.6	67.4	14.3	14.2	14.4	104.9	104.9	107.2
Virgin Islands	2.4	2.3	2.3	2.4	2.1	2.1	10.2	10.2	10.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	May 1989	Apr. 1990	May 1990 ^p	May 1989	Apr. 1990	May 1990 ^p	May 1989	Apr. 1990	May 1990 ^p
Utah	33.0	33.8	33.9	163.7	177.1	176.0	150.6	151.9	153.7
Provo-Orem	2.3	2.2	2.3	29.3	35.2	32.1	14.6	14.7	15.1
Salt Lake City-Ogden	27.2	27.0	27.3	113.3	119.2	120.9	97.7	100.3	101.3
Vermont	12.7	13.1	13.1	64.5	64.6	64.9	43.6	46.4	46.5
Barre-Montpelier	3.1	3.1	3.1	7.8	7.8	7.9	8.0	7.6	7.7
Burlington	4.0	4.1	4.2	19.2	20.7	21.0	12.6	13.2	13.2
Virginia	151.4	155.1	155.4	704.8	728.3	735.6	570.0	588.3	589.8
Bristol	1.2	1.2	1.2	5.0	5.2	5.2	5.5	5.3	5.4
Charlottesville	4.4	4.6	4.6	13.6	14.1	14.1	23.5	28.6	28.6
Danville	1.3	1.3	1.3	6.4	6.8	6.7	5.4	5.6	5.6
Lynchburg	3.7	3.7	3.7	15.9	16.9	16.8	9.6	9.9	9.8
Norfolk-Virginia Beach-Newport News	26.2	27.1	27.4	146.4	151.0	153.1	133.8	137.0	137.3
Northern Virginia	51.1	51.8	51.6	253.3	256.9	258.5	146.0	151.1	153.3
Richmond-Petersburg	38.6	39.8	39.9	103.7	106.6	107.5	94.5	98.6	97.1
Roanoke	8.8	9.0	9.0	31.5	32.6	33.0	15.5	16.0	16.4
Washington	111.4	115.8	116.2	472.9	496.5	499.0	384.4	399.5	405.9
Seattle	70.4	72.6	72.8	250.1	263.7	266.3	141.4	147.4	149.9
West Virginia	24.1	24.3	24.4	138.2	143.6	144.2	127.1	127.8	140.5
Charleston	6.2	6.3	6.3	27.0	28.4	28.5	20.7	20.5	22.8
Huntington-Ashland	3.9	3.9	3.9	24.1	24.5	24.5	19.2	19.5	20.3
Parkersburg-Marietta	2.1	2.2	2.2	13.9	14.4	14.6	9.6	9.6	10.3
Wheeling	2.9	3.0	3.0	16.5	16.8	16.8	9.5	9.3	10.3
Wisconsin	117.5	119.5	120.0	506.6	518.1	521.1	342.4	351.6	349.8
Appleton-Oshkosh-Neenah	7.4	7.5	7.6	31.0	31.8	31.8	17.7	18.2	18.2
Eau Claire	1.9	1.9	1.9	14.1	15.1	15.0	11.3	11.7	11.7
Green Bay	3.7	4.2	4.3	23.8	24.9	24.8	11.2	11.4	11.4
Janesville-Beloit	1.6	1.6	1.6	13.2	14.0	14.1	7.1	8.2	8.2
Kenosha	1.3	1.3	1.3	8.9	9.0	9.1	6.5	6.4	6.3
La Crosse	1.6	1.7	1.7	15.1	15.7	15.9	8.0	7.9	7.9
Madison	18.6	18.9	18.9	47.1	48.3	48.3	58.5	60.3	60.2
Milwaukee	50.2	51.1	51.1	200.1	208.6	209.8	85.4	87.1	87.1
Racine	2.3	2.4	2.4	16.8	17.4	17.8	8.3	8.6	8.6
Sheboygan	2.6	2.6	2.6	9.2	9.6	9.7	5.3	5.3	5.4
Wausau	3.5	3.4	3.4	9.6	10.4	10.4	6.5	6.6	6.6
Wyoming	7.4	7.1	7.2	35.8	34.9	36.6	56.8	56.1	56.8
Casper	1.4	1.4	1.4	6.3	6.4	6.5	5.1	5.1	5.2
Puerto Rico	36.8	36.0	36.0	129.0	134.4	134.9	293.5	290.8	291.7
Caguas	1.4	1.3	1.4	6.9	6.8	6.8	16.5	16.4	16.4
Mayaguez	1.3	1.3	1.3	7.4	7.4	7.4	19.0	18.8	18.7
Ponce	1.9	1.8	1.8	10.8	11.2	11.2	17.1	19.3	19.4
San Juan	29.4	29.2	29.2	92.3	94.6	94.8	174.0	172.8	173.1
Virgin Islands	2.0	1.9	1.9	9.9	8.7	8.7	13.4	13.5	13.5

¹ Combined with construction.

² 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 1989 benchmarks, and industry detail are classified in accordance with the 1987 *Standard Industrial Classification (SIC) Manual*.

**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	12.54	531.70	37.8	12.71	480.44
1988	34.7	9.29	322.36	42.3	12.75	539.33	37.9	13.01	493.08
1989	34.7	9.66	335.20	42.8	13.14	562.39	37.9	13.37	506.72
Monthly data, not seasonally adjusted									
1989:									
June	34.8	\$9.58	\$333.38	42.6	\$13.03	\$555.08	38.0	\$13.24	\$503.12
July	35.1	9.63	338.01	42.5	12.95	550.38	38.9	13.33	518.54
August	34.9	9.61	335.39	43.2	13.11	566.35	39.0	13.33	519.87
September	34.7	9.77	339.02	43.7	13.15	574.66	38.6	13.48	520.33
October	34.8	9.81	341.39	43.9	13.10	575.09	39.2	13.52	529.98
November	34.5	9.81	338.45	43.6	13.13	572.47	38.1	13.51	514.73
December	34.7	9.84	341.45	43.7	13.31	581.65	37.0	13.64	504.68
1990:									
January	34.2	9.88	337.90	43.6	13.31	580.32	37.6	13.42	504.59
February	34.3	9.91	339.91	43.2	13.30	574.56	37.2	13.42	499.22
March	34.4	9.93	341.59	43.0	13.42	577.06	37.9	13.47	510.51
April	34.4	9.96	342.62	43.1	13.53	583.14	37.3	13.39	499.45
May ^a	34.5	9.97	343.97	43.3	13.46	582.82	38.2	13.49	515.32
June ^b	34.8	9.96	346.61	43.8	13.43	588.23	39.0	13.49	526.11

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	9.60	365.76
1988	41.1	10.18	9.72	418.40	39.3	12.32	484.18	38.1	9.94	378.71
1989	41.0	10.47	10.01	429.27	39.4	12.57	495.26	38.1	10.38	395.48
Monthly data, not seasonally adjusted										
1989:										
June	41.1	\$10.44	\$9.98	\$429.08	39.6	\$12.48	\$494.21	38.1	\$10.31	\$392.81
July	40.5	10.47	10.02	424.04	39.8	12.58	500.68	38.3	10.40	398.32
August	40.8	10.44	9.97	425.95	39.4	12.56	494.86	38.1	10.35	394.34
September	41.2	10.55	10.05	434.66	39.4	12.70	500.38	38.1	10.47	398.91
October	40.9	10.52	10.04	430.27	39.4	12.69	499.99	38.3	10.50	402.15
November	41.1	10.58	10.10	434.84	39.1	12.67	495.40	38.1	10.55	401.96
December	41.3	10.67	10.19	440.67	39.3	12.76	501.47	38.2	10.62	405.68
1990:										
January	40.6	10.59	10.15	429.95	38.8	12.80	496.64	37.8	10.61	401.06
February	40.4	10.66	10.24	430.66	39.0	12.85	501.15	37.8	10.66	402.95
March	40.7	10.73	10.28	436.71	39.1	12.82	501.26	37.9	10.65	403.64
April	39.8	10.74	10.36	427.45	39.1	12.89	504.00	38.1	10.77	410.34
May ^p	40.8	10.80	10.34	440.64	39.1	12.82	501.26	38.0	10.72	407.36
June ^p	41.1	10.82	10.35	444.70	39.5	12.81	506.00	38.2	10.74	410.27

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
1965	36.6	1.82	66.61	37.2	2.39	88.91	35.9	2.05	73.60
1966	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
1967	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
1968	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
1969	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
1970	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
1971	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
1972	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
1973	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
1974	32.7	3.14	102.68	36.5	3.77	137.61	33.6	3.75	126.00
1975	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
1976	32.1	3.57	114.60	36.4	4.27	155.43	33.3	4.31	143.52
1977	31.6	3.85	121.66	36.4	4.54	165.26	33.0	4.65	153.45
1978	31.0	4.20	130.20	36.4	4.89	178.00	32.8	4.99	163.67
1979	30.6	4.53	138.62	36.2	5.27	190.77	32.7	5.36	175.27
1980	30.2	4.88	147.38	36.2	5.79	209.60	32.6	5.85	190.71
1981	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
1982	29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
1983	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
1984	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
1985	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
1986	29.2	6.03	176.08	36.4	8.36	304.30	32.5	8.18	265.85
1987	29.2	6.12	178.70	36.3	8.73	316.90	32.5	8.49	275.93
1988	29.1	6.31	183.62	35.9	9.09	326.33	32.6	8.91	290.47
1989	28.9	6.54	189.01	35.9	9.57	343.56	32.6	9.39	306.11
Monthly data, not seasonally adjusted									
1989:									
June	29.2	\$6.49	\$189.51	35.8	\$9.48	\$339.38	32.7	\$9.26	\$302.80
July	29.9	6.49	194.05	36.3	9.59	348.12	33.1	9.33	308.82
August	29.6	6.50	192.40	35.8	9.50	340.10	32.9	9.29	305.64
September	28.9	6.61	191.03	35.7	9.62	343.43	32.6	9.49	309.37
October	28.9	6.62	191.32	36.1	9.71	350.53	32.8	9.59	314.55
November	28.6	6.64	189.90	35.7	9.69	345.93	32.6	9.61	313.29
December	29.2	6.66	194.47	35.7	9.76	348.43	32.5	9.69	314.93
1990:									
January	28.1	6.74	189.39	35.7	9.82	350.57	32.4	9.73	315.25
February	28.3	6.73	190.46	35.8	9.90	354.42	32.5	9.75	316.88
March	28.5	6.76	192.66	35.7	9.87	352.36	32.5	9.75	316.88
April	29.0	6.78	196.62	36.2	9.99	361.64	32.7	9.81	320.79
May ^p	28.9	6.78	195.94	35.6	9.92	353.15	32.4	9.77	316.55
June ^p	29.3	6.77	198.36	35.7	9.88	352.72	32.7	9.73	318.17

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 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P	May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P
Total private		34.5	34.8	34.4	34.5	34.8	-	-	-	-	-
Mining		42.0	42.6	43.1	43.3	43.8	-	-	-	-	-
Metal mining	10	42.2	42.8	43.1	42.0	-	-	-	-	-	-
Iron ores	101	42.6	43.0	42.7	42.4	-	-	-	-	-	-
Copper ores	102	44.3	45.6	47.6	44.5	-	-	-	-	-	-
Coal mining	11,12	42.5	41.4	43.5	43.9	-	-	-	-	-	-
Bituminous coal and lignite mining	12	42.5	41.4	43.6	44.0	-	-	-	-	-	-
Oil and gas extraction	13	40.6	41.8	42.5	42.5	-	-	-	-	-	-
Crude petroleum, natural gas, and natural gas liquids	131,2	41.0	44.2	42.7	41.3	-	-	-	-	-	-
Oil and gas field services	138	40.3	40.4	42.4	43.1	-	-	-	-	-	-
Nonmetallic minerals, except fuels	14	45.7	46.2	44.7	45.8	-	-	-	-	-	-
Crushed and broken stone	142	47.2	47.2	45.3	46.7	-	-	-	-	-	-
Construction		37.7	38.0	37.3	38.2	39.0	-	-	-	-	-
General building contractors	15	37.1	37.3	37.0	37.6	-	-	-	-	-	-
Residential building construction	152	36.2	36.7	36.6	36.9	-	-	-	-	-	-
Operative builders	153	37.9	37.9	37.6	37.7	-	-	-	-	-	-
Nonresidential building construction	154	38.1	38.0	37.4	38.4	-	-	-	-	-	-
Heavy construction contractors	16	41.3	41.5	41.0	42.1	-	-	-	-	-	-
Highway and street construction	161	41.7	42.2	41.4	42.6	-	-	-	-	-	-
Heavy construction, except highway	162	41.1	41.2	40.8	41.8	-	-	-	-	-	-
Special trade contractors	17	36.9	37.2	36.3	37.4	-	-	-	-	-	-
Plumbing, heating, and air conditioning	171	38.7	38.8	37.4	38.7	-	-	-	-	-	-
Painting, paper hanging, and decorating	172	35.7	35.9	34.6	36.2	-	-	-	-	-	-
Electrical work	173	38.8	38.9	37.9	38.8	-	-	-	-	-	-
Masonry, stonework, and plastering	174	34.6	35.1	34.4	35.1	-	-	-	-	-	-
Carpentering and flooring	175	34.7	35.3	34.8	35.3	-	-	-	-	-	-
Roofing and sheet metal work	176	32.7	32.7	33.0	34.1	-	-	-	-	-	-
Manufacturing		40.9	41.1	39.8	40.8	41.1	3.6	3.8	2.9	3.6	3.8
Durable goods		41.5	41.7	40.3	41.5	41.7	3.8	3.9	2.8	3.8	3.9
Lumber and wood products	24	40.1	40.4	40.1	40.6	40.7	3.5	3.6	3.4	3.8	-
Logging camps and logging contractors	241	40.9	41.1	41.5	41.5	-	5.2	4.9	5.5	5.9	-
Sawmills and planing mills	242	41.6	41.5	41.3	41.9	-	4.2	4.4	4.2	4.6	-
Sawmills and planing mills, general	2421	42.0	41.8	42.0	42.4	-	4.5	4.6	4.5	5.0	-
Hardwood dimension and flooring	2426	40.3	40.2	38.6	40.1	-	3.1	3.3	2.6	3.1	-
Millwork, plywood, and structural members	243	39.5	40.0	39.9	40.1	-	3.0	3.2	2.9	3.2	-
Millwork	2431	38.6	38.9	38.8	39.6	-	2.1	1.9	2.0	2.4	-
Wood kitchen cabinets	2434	38.9	39.9	39.4	38.9	-	2.9	3.5	2.8	3.0	-
Hardwood veneer and plywood	2435	40.2	40.6	40.6	41.3	-	3.4	3.7	3.3	3.9	-
Softwood veneer and plywood	2436	42.4	42.2	43.9	42.9	-	4.9	4.8	5.2	4.9	-
Wood containers	244	38.9	39.0	38.6	39.2	-	3.5	3.4	3.0	3.4	-
Wood buildings and mobile homes	245	38.1	39.1	37.6	38.8	-	1.9	2.2	1.4	2.0	-
Mobile homes	2451	38.2	39.1	37.6	38.5	-	1.8	1.8	1.5	1.8	-
Miscellaneous wood products	249	39.6	40.2	39.2	40.0	-	2.7	3.0	2.5	3.0	-
Furniture and fixtures	25	39.0	39.4	38.0	38.8	39.3	2.3	2.6	1.8	2.3	-
Household furniture	251	38.7	39.0	37.6	38.2	-	2.1	2.4	1.7	2.1	-
Wood household furniture	2511	39.5	40.0	38.2	39.3	-	2.6	2.8	2.0	2.4	-
Upholstered household furniture	2512	37.1	37.4	36.3	35.8	-	1.4	1.6	1.2	1.2	-
Metal household furniture	2514	40.2	39.4	38.9	40.9	-	2.5	2.7	2.1	3.5	-
Mattresses and bedsprings	2515	38.7	39.8	39.0	39.3	-	2.5	3.0	2.5	2.8	-
Office furniture	252	39.1	39.0	38.1	39.8	-	2.0	2.1	1.7	2.3	-
Public building and related furniture	253	39.3	39.9	38.6	39.9	-	3.5	3.8	2.0	3.3	-
Partitions and fixtures	254	40.7	40.9	39.4	40.1	-	3.1	3.6	2.0	2.8	-
Miscellaneous furniture and fixtures	259	38.2	40.3	37.8	39.0	-	2.0	3.0	1.5	2.3	-
Stone, clay, and glass products	32	42.4	42.6	41.7	42.4	42.7	5.0	5.1	4.4	5.0	-
Flat glass	321	44.7	44.8	45.1	45.4	-	6.0	5.7	5.4	7.0	-
Glass and glassware, pressed or blown	322	42.1	41.9	42.3	41.8	-	4.6	4.7	5.1	4.3	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a	May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a
Total private		\$9.59	\$9.58	\$9.96	\$9.97	\$9.96	\$330.86	\$333.38	\$342.62	\$343.97	\$346.61
Mining		13.13	13.03	13.53	13.46	13.43	551.46	555.08	583.14	582.82	588.23
Metal mining	10	13.60	13.62	13.91	13.94	-	573.92	582.94	599.52	585.48	-
Iron ores	101	13.78	14.28	14.19	14.10	-	587.03	614.04	605.91	597.84	-
Copper ores	102	11.51	11.77	12.03	12.06	-	509.89	536.71	572.63	536.67	-
Coal mining	11,12	16.16	15.81	16.52	16.44	-	686.80	654.53	718.62	721.72	-
Bituminous coal and lignite mining	12	16.22	15.86	16.59	16.51	-	689.35	656.60	723.32	726.44	-
Oil and gas extraction	13	12.37	12.47	12.80	12.70	-	502.22	521.25	544.00	539.75	-
Crude petroleum, natural gas, and natural gas liquids	131,2	15.09	15.24	16.37	16.20	-	618.69	673.61	699.00	669.06	-
Oil and gas field services	138	10.73	10.68	10.93	10.96	-	432.42	431.47	463.43	472.38	-
Nonmetallic minerals, except fuels	14	11.16	11.28	11.51	11.50	-	510.01	521.14	514.50	526.70	-
Crushed and broken stone	142	10.68	10.83	10.85	11.06	-	504.10	511.18	491.51	516.50	-
Construction		13.28	13.24	13.39	13.49	13.49	500.66	503.12	499.45	515.32	526.11
General building contractors	15	12.51	12.47	12.73	12.79	-	464.12	465.13	471.01	480.90	-
Residential building construction	152	11.90	11.91	12.13	12.13	-	430.78	437.10	443.96	447.60	-
Operative builders	153	11.85	11.79	12.52	12.57	-	449.12	446.84	470.75	473.89	-
Nonresidential building construction	154	13.22	13.14	13.39	13.52	-	503.68	499.32	500.79	519.17	-
Heavy construction contractors	16	12.95	13.01	12.91	13.19	-	534.84	539.92	529.31	555.30	-
Highway and street construction	161	12.52	12.72	12.55	13.02	-	522.08	536.78	519.57	554.65	-
Heavy construction, except highway	162	13.15	13.15	13.06	13.27	-	540.47	541.78	532.85	554.69	-
Special trade contractors	17	13.70	13.62	13.82	13.87	-	505.53	506.66	501.67	518.74	-
Plumbing, heating, and air conditioning	171	14.20	14.06	14.26	14.37	-	549.54	545.53	533.32	556.12	-
Painting, paper hanging, and decorating	172	12.93	12.84	12.90	12.91	-	461.60	460.96	446.34	467.34	-
Electrical work	173	14.66	14.71	14.65	14.85	-	568.81	572.22	555.24	576.18	-
Masonry, stonework, and plastering	174	13.94	13.84	14.27	14.38	-	482.32	485.78	490.89	504.74	-
Carpentering and flooring	175	13.11	12.96	13.28	13.39	-	454.92	457.49	462.14	472.67	-
Roofing and sheet metal work	176	11.98	11.93	12.12	12.09	-	391.75	390.11	399.96	412.27	-
Manufacturing		10.42	10.44	10.74	10.80	10.82	426.18	429.08	427.45	440.64	444.70
Durable goods		10.94	10.98	11.21	11.31	11.35	454.01	457.87	451.76	469.37	473.30
Lumber and wood products	24	8.79	8.85	9.11	9.13	9.11	352.48	357.54	365.31	370.68	370.78
Logging camps and logging contractors	241	11.14	11.24	11.34	11.31	-	455.63	461.96	470.61	469.37	-
Sawmills and planing mills	242	8.95	8.99	9.27	9.26	-	372.32	373.09	382.85	387.99	-
Sawmills and planing mills, general	2421	9.27	9.31	9.62	9.61	-	389.34	388.16	404.04	407.46	-
Hardwood dimension and flooring	2426	7.33	7.38	7.50	7.54	-	295.40	296.68	289.50	302.35	-
Millwork, plywood, and structural members	243	8.72	8.75	9.13	9.11	-	344.44	350.00	364.29	365.31	-
Millwork	2431	8.92	8.92	9.48	9.41	-	344.31	346.99	367.82	372.64	-
Wood kitchen cabinets	2434	8.14	8.17	8.49	8.57	-	316.65	325.98	334.51	333.37	-
Hardwood veneer and plywood	2435	7.28	7.40	7.60	7.64	-	292.66	300.44	308.56	315.53	-
Softwood veneer and plywood	2436	10.13	10.18	10.44	10.32	-	429.51	429.60	458.32	442.73	-
Wood containers	244	6.51	6.43	6.63	6.68	-	253.24	250.77	255.92	261.86	-
Wood buildings and mobile homes	245	8.30	8.28	8.48	8.57	-	316.23	323.75	318.85	332.52	-
Mobile homes	2451	8.31	8.28	8.59	8.67	-	317.44	323.75	322.98	333.80	-
Miscellaneous wood products	249	7.61	7.68	7.93	7.98	-	301.36	308.74	310.86	319.20	-
Furniture and fixtures	25	8.16	8.23	8.39	8.45	8.48	318.24	324.26	318.82	327.86	333.26
Household furniture	251	7.53	7.59	7.79	7.83	-	291.41	296.01	292.90	299.11	-
Wood household furniture	2511	7.08	7.12	7.30	7.36	-	279.66	284.80	278.86	289.25	-
Upholstered household furniture	2512	8.23	8.25	8.51	8.51	-	305.33	308.55	308.91	304.66	-
Metal household furniture	2514	7.57	7.95	7.80	7.93	-	304.31	313.23	303.42	324.34	-
Mattresses and bedsprings	2515	7.87	7.95	8.18	8.20	-	304.57	316.41	319.02	322.26	-
Office furniture	252	9.18	9.35	9.45	9.45	-	358.94	364.65	360.05	376.11	-
Public building and related furniture	253	8.78	8.73	8.86	9.01	-	345.05	348.33	342.00	359.50	-
Partitions and fixtures	254	9.62	9.63	9.71	9.78	-	391.53	393.87	382.57	392.18	-
Miscellaneous furniture and fixtures	259	8.45	8.50	8.62	8.67	-	322.79	342.55	325.84	338.13	-
Stone, clay, and glass products	32	10.69	10.73	11.08	11.08	11.07	453.26	457.10	462.04	469.79	472.69
Flat glass	321	15.06	14.93	15.60	15.33	-	673.18	668.86	703.56	695.98	-
Glass and glassware, pressed or blown	322	12.05	12.06	12.56	12.55	-	507.31	505.31	531.29	524.59	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1989	June 1989	Apr. 1990	May 1990 ^p	June 1990 ^p	May 1989	June 1989	Apr. 1990	May 1990 ^p	June 1990 ^p
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	42.4	42.3	42.7	42.3	-	5.4	5.6	5.9	5.3	-
Pressed and blown glass, nec	3229	41.7	41.4	41.8	41.2	-	3.6	3.7	4.2	3.1	-
Products of purchased glass	323	41.5	41.5	39.8	40.9	-	3.2	3.3	2.4	3.2	-
Cement, hydraulic	324	41.7	41.1	42.8	41.5	-	3.0	2.5	4.8	3.6	-
Structural clay products	325	41.4	42.1	40.6	41.3	-	3.7	3.9	3.4	3.8	-
Pottery and related products	326	40.2	39.9	39.1	40.0	-	2.9	3.0	2.3	2.7	-
Concrete, gypsum, and plaster products	327	43.4	43.8	42.7	43.7	-	6.8	6.9	5.7	6.7	-
Concrete block and brick	3271	44.0	43.4	44.4	45.5	-	6.7	6.9	7.0	7.6	-
Concrete products, nec	3272	43.3	43.6	42.0	42.8	-	6.2	6.3	4.9	5.9	-
Ready-mixed concrete	3273	42.8	43.3	42.1	43.5	-	7.0	7.1	5.8	6.9	-
Misc. nonmetallic mineral products	329	42.2	42.7	41.3	42.3	-	4.5	4.7	3.7	4.5	-
Abrasive products	3291	42.7	44.1	41.1	42.1	-	4.0	4.2	2.4	3.1	-
Asbestos products	3292	42.1	41.3	37.3	41.7	-	5.0	3.6	1.8	5.9	-
Primary metal industries											
Blast furnaces and basic steel products	331	43.6	43.9	43.2	43.7	43.7	5.6	5.8	5.1	5.7	-
Blast furnaces and steel mills	3312	43.9	44.3	43.4	43.7	-	5.8	6.1	5.3	5.7	-
Steel pipe and tubes	3317	41.7	41.9	42.1	45.0	-	4.2	4.7	4.2	6.7	-
Iron and steel foundries	332	42.8	42.8	40.6	43.0	-	5.0	5.2	3.4	5.1	-
Gray iron foundries	3321	43.0	43.3	40.9	43.2	-	5.2	5.6	3.6	5.4	-
Malleable iron foundries	3322	41.3	41.9	40.9	43.6	-	3.4	3.8	3.7	6.0	-
Steel foundries, nec	3325	42.4	42.2	40.0	42.2	-	4.7	4.8	2.9	4.3	-
Primary nonferrous metals	333	42.9	42.7	44.1	43.3	-	4.7	4.7	4.9	4.6	-
Primary aluminum	3334	43.1	42.5	43.9	43.3	-	4.9	4.8	5.4	5.1	-
Nonferrous rolling and drawing	335	43.5	43.8	41.3	42.9	-	5.7	6.2	4.5	5.7	-
Copper rolling and drawing	3351	43.3	43.9	41.8	43.1	-	4.8	5.7	4.6	5.9	-
Aluminum sheet, plate, and foil	3353	45.3	44.8	42.6	43.5	-	7.7	7.6	7.9	7.5	-
Nonferrous wire drawing and insulating	3357	42.7	42.6	40.9	42.7	-	5.1	5.4	3.7	5.0	-
Nonferrous foundries	336	41.5	41.8	38.8	40.9	-	3.7	3.8	1.8	3.5	-
Aluminum foundries	3361	42.0	42.3	39.1	41.2	-	3.7	3.9	1.8	3.4	-
Fabricated metal products											
Metal cans and shipping containers	34	41.5	41.7	40.1	41.7	41.8	3.7	3.8	2.6	3.8	-
Metal cans	341	44.2	44.8	43.2	44.6	-	5.7	5.9	4.8	6.0	-
Metal cans	3411	44.2	45.2	43.4	44.7	-	5.4	5.9	4.9	5.9	-
Cutlery, hand tools, and hardware	342	41.0	41.0	39.8	41.2	-	2.8	2.8	2.0	3.2	-
Hand and edge tools, and hand saws and blades ..	3423,5	40.9	41.4	39.4	40.9	-	2.6	2.7	1.5	2.9	-
Hardware, nec	3429	40.6	40.5	39.4	41.1	-	2.6	2.7	1.9	3.3	-
Plumbing and heating, except electric	343	40.4	40.7	39.5	40.5	-	3.0	3.2	2.4	3.0	-
Plumbing fittings and brass goods	3432	41.1	40.9	39.9	40.0	-	3.4	3.1	2.7	2.5	-
Heating equipment, except electric	3433	39.5	39.7	37.9	39.1	-	2.4	3.0	1.3	1.9	-
Fabricated structural metal products	344	41.1	41.4	39.8	41.2	-	3.4	3.7	2.7	3.5	-
Fabricated structural metal	3441	41.5	42.2	41.0	42.1	-	4.0	4.3	3.1	4.1	-
Metal doors, sash, and trim	3442	40.3	40.5	38.7	40.1	-	2.6	2.9	1.9	2.7	-
Fabricated plate work (boiler shops)	3443	42.3	42.3	40.5	42.2	-	3.8	3.9	3.1	4.3	-
Sheet metal work	3444	40.3	40.4	39.4	40.5	-	3.0	3.3	2.4	2.9	-
Architectural metal work	3446	40.9	41.4	38.3	39.2	-	4.4	4.5	2.7	3.2	-
Screw machine products, bolts, etc	345	42.4	42.7	40.6	42.3	-	4.7	4.9	3.1	4.7	-
Screw machine products	3451	41.0	41.0	39.7	40.7	-	3.7	3.6	2.5	3.6	-
Bolts, nuts, rivets, and washers	3452	44.0	44.5	41.5	44.1	-	5.9	6.3	3.7	6.0	-
Metal forgings and stampings	346	42.4	42.1	39.8	42.8	-	4.4	4.2	2.3	4.3	-
Iron and steel forgings	3462	42.7	43.1	40.9	43.0	-	4.6	5.0	2.8	4.3	-
Automotive stampings	3465	43.4	42.8	39.6	43.9	-	5.0	4.5	2.2	4.6	-
Metal stampings, nec	3469	40.6	40.4	39.9	41.5	-	3.3	3.4	2.4	3.9	-
Metal services, nec	347	41.3	41.3	39.7	40.9	-	3.8	3.6	2.8	3.7	-
Plating and polishing	3471	41.3	41.1	39.3	40.5	-	3.7	3.4	2.3	3.2	-
Metal coating and allied services	3479	41.2	41.8	40.5	41.5	-	3.9	4.1	3.8	4.7	-
Ordnance and accessories, nec	348	41.4	41.7	40.6	41.2	-	2.8	3.1	2.7	3.4	-
Ammunition, except for small arms, nec	3483	40.7	41.6	39.5	40.2	-	2.3	2.8	2.1	2.6	-
Misc. fabricated metal products	349	40.9	41.2	40.0	41.5	-	3.3	3.4	2.4	3.5	-
Valves and pipe fittings	3494	41.6	42.2	41.3	42.5	-	3.3	3.5	2.3	3.4	-
Misc. fabricated wire products	3496	39.3	39.7	39.1	40.1	-	3.2	3.2	2.1	3.3	-
Machinery, except electrical											
Engines and turbines	35	42.3	42.6	40.6	42.0	42.3	4.2	4.3	2.9	3.8	-
Engines and turbines	351	43.0	42.6	41.0	42.3	-	4.0	3.8	2.5	3.4	-
Turbines and turbine generator sets	3511	42.1	43.0	42.5	43.9	-	4.8	5.3	4.6	5.1	-
Internal combustion engines, nec	3519	43.3	42.5	40.5	41.7	-	3.8	3.3	1.7	2.8	-
Farm and garden machinery	352	41.8	41.9	40.5	41.8	-	3.9	4.0	2.8	3.7	-
Farm machinery and equipment	3523	42.3	43.3	40.6	41.6	-	4.5	4.8	2.9	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				
		May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a	May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	\$12.57	\$12.63	\$13.31	\$13.27	-	\$532.97	\$534.25	\$568.34	\$561.32	-
Pressed and blown glass, nec	3229	11.45	11.40	11.71	11.70	-	477.47	471.96	489.48	482.04	-
Products of purchased glass	323	9.29	9.36	9.68	9.82	-	385.54	388.44	385.26	401.64	-
Cement, hydraulic	324	13.50	13.41	14.34	13.68	-	562.95	551.15	613.75	567.72	-
Structural clay products	325	9.15	9.14	9.53	9.52	-	378.81	384.79	386.92	393.18	-
Pottery and related products	326	9.54	9.58	9.63	9.69	-	383.51	382.24	376.53	387.60	-
Concrete, gypsum, and plaster products	327	10.49	10.55	10.74	10.82	-	455.27	462.09	458.60	472.83	-
Concrete block and brick	3271	9.67	9.80	9.69	9.90	-	425.48	425.32	430.24	450.45	-
Concrete products, nec	3272	9.48	9.50	9.57	9.74	-	410.48	414.20	401.94	416.87	-
Ready-mixed concrete	3273	11.29	11.35	11.68	11.67	-	483.21	491.46	491.73	507.65	-
Misc. nonmetallic mineral products	329	10.65	10.72	11.08	11.04	-	449.43	457.74	457.60	466.99	-
Abrasive products	3291	10.24	10.15	10.36	10.38	-	437.25	447.62	425.80	437.00	-
Asbestos products	3292	11.20	11.05	10.76	11.40	-	471.52	456.37	401.35	475.38	-
Primary metal industries	33	12.25	12.32	12.83	12.78	\$12.88	527.98	533.46	535.01	549.54	\$556.42
Blast furnaces and basic steel products	331	14.06	14.18	14.86	14.70	14.76	613.02	622.50	641.95	642.39	645.01
Blast furnaces and steel mills	3312	14.81	14.91	15.71	15.54	-	650.16	660.51	681.81	679.10	-
Steel pipe and tubes	3317	10.85	11.03	11.44	11.53	-	452.45	462.16	481.62	518.85	-
Iron and steel foundries	332	11.10	11.16	11.48	11.56	-	475.08	477.65	466.09	497.08	-
Gray iron foundries	3321	11.64	11.69	12.00	12.06	-	500.52	506.18	490.80	520.99	-
Malleable iron foundries	3322	12.15	12.04	12.58	12.39	-	501.80	504.48	514.52	540.20	-
Steel foundries, nec	3325	10.31	10.43	10.71	10.84	-	437.14	440.15	428.40	457.45	-
Primary nonferrous metals	333	13.57	13.66	14.32	14.15	-	582.15	583.28	631.51	612.70	-
Primary aluminum	3334	13.85	13.96	14.77	14.59	-	596.94	593.30	648.40	631.75	-
Nonferrous rolling and drawing	335	11.78	11.79	12.16	12.19	-	512.43	516.40	502.21	522.95	-
Copper rolling and drawing	3351	11.06	11.08	11.39	11.64	-	478.90	486.41	476.10	501.68	-
Aluminum sheet, plate, and foil	3353	14.24	14.22	15.52	15.22	-	645.07	637.06	661.15	662.07	-
Nonferrous wire drawing and insulating	3357	11.84	11.95	11.87	11.93	-	505.57	509.07	485.48	509.41	-
Nonferrous foundries	336	9.72	9.72	9.98	10.22	-	403.38	406.30	387.22	418.00	-
Aluminum foundries	3361	9.94	9.95	10.22	10.48	-	417.48	420.89	399.60	431.78	-
Fabricated metal products	34	10.49	10.51	10.62	10.75	10.77	435.34	438.27	425.86	448.28	450.19
Metal cans and shipping containers	341	13.75	13.86	14.27	14.28	-	607.75	620.93	616.46	636.89	-
Metal cans	3411	14.69	14.78	15.21	15.15	-	649.30	668.06	660.11	677.21	-
Cutlery, hand tools, and hardware	342	10.43	10.39	10.72	10.86	-	427.63	425.99	426.66	447.43	-
Hand and edge tools, and hand saws and blades	3423.5	9.56	9.66	9.86	9.96	-	391.00	399.92	388.48	407.36	-
Hardware, nec	3429	10.85	10.74	11.07	11.25	-	440.51	434.97	436.16	462.38	-
Plumbing and heating, except electric	343	9.43	9.48	9.58	9.75	-	380.97	385.84	378.41	394.88	-
Plumbing fittings and brass goods	3432	9.07	9.04	9.29	9.44	-	372.78	369.74	370.67	377.60	-
Heating equipment, except electric	3433	9.30	9.39	9.37	9.54	-	367.35	372.78	355.12	373.01	-
Fabricated structural metal products	344	9.84	9.92	9.99	10.08	-	404.42	410.69	397.60	415.30	-
Fabricated structural metal	3441	10.45	10.46	10.21	10.30	-	433.68	441.41	418.61	433.63	-
Metal doors, sash, and trim	3442	8.23	8.26	8.50	8.60	-	331.67	334.53	328.95	344.86	-
Fabricated plate work (boiler shops)	3443	10.46	10.58	10.83	10.90	-	442.46	447.53	438.62	459.88	-
Sheet metal work	3444	10.15	10.35	10.30	10.38	-	409.05	418.14	405.82	420.39	-
Architectural metal work	3446	9.32	9.33	9.67	9.72	-	381.19	386.26	370.36	381.02	-
Screw machine products, bolts, etc	345	10.25	10.29	10.43	10.66	-	434.60	439.38	423.46	450.92	-
Screw machine products	3451	9.63	9.64	9.87	10.03	-	394.83	395.24	391.84	408.22	-
Bolts, nuts, rivets, and washers	3452	10.90	10.96	11.01	11.29	-	479.60	487.72	456.92	497.89	-
Metal forgings and stampings	346	12.57	12.50	12.49	12.59	-	532.97	526.25	497.10	538.85	-
Iron and steel forgings	3462	13.27	13.30	12.82	12.85	-	566.63	573.23	524.34	552.55	-
Automotive stampings	3465	14.24	14.09	14.29	14.25	-	618.02	603.05	565.88	625.58	-
Metal stampings, nec	3469	9.67	9.74	9.98	10.10	-	392.60	393.50	398.20	419.15	-
Metal services, nec	347	8.50	8.50	8.83	8.93	-	351.05	351.05	350.55	365.24	-
Plating and polishing	3471	8.46	8.47	8.75	8.85	-	349.40	348.12	343.88	358.43	-
Metal coating and allied services	3479	8.57	8.56	8.97	9.08	-	353.08	357.81	363.29	376.82	-
Ordnance and accessories, nec	348	11.59	11.57	11.98	11.83	-	479.83	482.47	486.39	487.40	-
Ammunition, except for small arms, nec	3483	11.37	11.23	11.80	11.47	-	462.76	467.17	466.10	461.09	-
Misc. fabricated metal products	349	9.70	9.78	9.72	9.92	-	396.73	402.94	388.80	411.68	-
Valves and pipe fittings	3494	10.51	10.48	10.32	10.62	-	437.22	442.26	426.22	451.35	-
Misc. fabricated wire products	3496	8.64	8.62	8.60	8.75	-	339.55	342.21	336.26	350.88	-
Machinery, except electrical	35	11.29	11.32	11.49	11.60	11.68	477.57	482.23	466.49	487.20	494.06
Engines and turbines	351	13.98	14.01	14.26	14.42	-	601.14	596.83	584.66	609.97	-
Turbines and turbine generator sets	3511	14.19	14.13	14.60	14.45	-	597.40	607.59	620.50	634.36	-
Internal combustion engines, nec	3519	13.91	13.97	14.13	14.41	-	602.30	593.73	572.27	600.90	-
Farm and garden machinery	352	10.47	10.62	10.37	10.51	-	437.65	444.98	419.99	439.32	-
Farm machinery and equipment	3523	11.37	11.39	11.48	11.68	-	480.95	493.19	466.09	485.89	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P	May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	42.3	42.9	41.0	42.7	-	4.0	4.4	3.1	4.0	-
Construction machinery	3531	42.7	43.3	42.0	43.0	-	4.3	4.5	3.5	4.2	-
Mining machinery	3532	42.0	42.5	40.6	41.6	-	4.0	4.3	3.3	4.2	-
Oil field machinery	3533	41.3	42.6	42.2	45.4	-	3.7	4.4	4.2	5.1	-
Conveyors and conveying equipment	3535	43.3	44.0	39.8	42.0	-	5.2	5.6	2.8	4.4	-
Industrial trucks and tractors	3537	40.9	41.1	39.2	40.5	-	3.0	3.5	1.8	2.2	-
Metalworking machinery	354	43.3	43.6	40.9	42.3	-	5.3	5.4	3.5	4.4	-
Machine tools, metal cutting types	3541	44.3	44.3	39.7	41.3	-	5.3	5.4	2.9	3.7	-
Machine tools, metal forming types	3542	43.4	43.9	41.0	42.2	-	5.3	5.9	3.4	4.2	-
Special dies, tools, jigs, and fixtures	3544	43.7	43.9	41.5	43.2	-	5.9	6.0	4.3	5.2	-
Machine tool accessories	3545	42.4	42.6	40.5	41.6	-	4.8	4.7	2.7	3.3	-
Power driven hand tools	3546	42.0	42.8	40.2	41.2	-	3.5	3.6	1.6	3.4	-
Special industry machinery	355	42.0	42.5	40.8	42.4	-	4.4	4.5	2.9	4.2	-
Food products machinery	3551	41.8	42.7	41.2	42.2	-	4.2	4.4	3.2	4.3	-
Textile machinery	3552	42.4	42.6	41.6	42.4	-	3.5	3.5	2.6	3.7	-
Printing trades machinery	3555	38.7	38.9	38.4	39.7	-	4.0	3.7	2.8	3.6	-
General industrial machinery	356	42.3	42.6	39.9	41.9	-	4.2	4.5	2.5	4.0	-
Pumps and pumping equipment	3561	42.5	42.9	39.3	41.1	-	3.9	4.3	2.4	4.0	-
Ball and roller bearings	3562	43.4	43.6	40.3	43.1	-	5.8	6.0	2.7	5.2	-
Air and gas compressors	3563	43.6	43.7	42.4	44.3	-	4.4	4.7	3.3	4.6	-
Blowers and fans	3564	40.9	41.7	38.3	40.0	-	2.6	3.4	1.4	2.8	-
Speed changers, drives, and gears	3566	41.6	42.4	40.4	41.9	-	4.3	4.9	3.2	5.0	-
Power transmission equipment, nec	3568	41.7	42.0	39.4	42.0	-	4.3	4.7	2.8	4.1	-
Office and computing machines	357	41.4	41.7	41.3	41.8	-	2.7	3.0	2.8	2.9	-
Electronic computing equipment	3573	41.4	41.6	41.8	42.2	-	2.7	3.0	3.0	2.9	-
Refrigeration and service machinery	358	42.0	42.3	39.7	41.0	-	3.5	3.8	1.6	2.8	-
Refrigeration and heating equipment	3585	42.7	43.1	40.1	41.4	-	4.1	4.4	1.8	3.1	-
Misc. machinery, except electrical	359	41.7	42.2	40.6	41.7	-	4.4	4.4	3.4	4.3	-
Carburetors, pistons, rings, and valves	3592	42.2	42.2	38.8	41.9	-	4.3	4.3	2.2	4.5	-
Machinery, except electrical, nec	3599	41.7	42.1	40.8	41.7	-	4.4	4.4	3.5	4.2	-
Electrical and electronic equipment	36	40.4	40.8	39.6	40.5	40.8	2.8	3.0	2.2	2.9	-
Electric distributing equipment	361	41.6	41.7	39.8	41.3	-	2.7	3.0	1.9	2.5	-
Transformers	3612	42.1	42.3	40.8	41.6	-	2.8	3.2	2.3	2.9	-
Switchgear and switchboard apparatus	3613	41.1	41.2	38.9	41.0	-	2.6	2.8	1.5	2.1	-
Electrical industrial apparatus	362	41.7	42.1	40.3	41.8	-	3.4	3.7	2.3	3.4	-
Motors and generators	3621	41.9	42.0	39.6	41.4	-	3.9	4.2	2.3	3.4	-
Industrial controls	3622	40.3	41.7	39.5	41.2	-	2.2	2.9	1.3	2.6	-
Household appliances	363	39.3	39.4	38.3	39.3	-	2.6	2.6	1.5	2.3	-
Household refrigerators and freezers	3632	38.2	38.2	37.9	37.5	-	3.2	2.9	2.3	2.9	-
Household laundry equipment	3633	41.0	41.3	39.1	41.3	-	2.6	2.9	1.0	2.2	-
Electric housewares and fans	3634	40.4	40.4	38.3	40.0	-	2.8	2.8	1.4	2.1	-
Electric lighting and wiring equipment	364	39.7	40.0	38.4	40.4	-	2.5	2.8	1.8	3.0	-
Electric lamps	3641	40.4	40.2	39.4	40.5	-	2.5	2.8	2.2	2.9	-
Current-carrying wiring devices	3643	39.6	40.0	38.5	40.6	-	2.4	2.9	2.0	3.3	-
Noncurrent-carrying wiring devices	3644	39.9	40.4	37.8	41.0	-	2.4	2.5	.9	2.1	-
Residential lighting fixtures	3645	37.7	37.9	37.2	38.0	-	1.7	2.4	1.5	1.7	-
Radio and TV receiving equipment	365	39.4	40.4	38.0	40.0	-	2.8	3.3	2.2	2.6	-
Radio and TV receiving sets	3651	38.7	40.0	37.1	40.7	-	2.3	2.9	1.6	2.4	-
Communication equipment	366	40.7	41.0	40.5	40.6	-	2.2	2.4	1.8	2.0	-
Telephone and telegraph apparatus	3661	41.5	42.2	42.7	42.4	-	2.3	2.8	1.5	1.7	-
Radio and TV communication equipment	3662	40.3	40.5	39.6	39.9	-	2.2	2.2	1.9	2.1	-
Electronic components and accessories	367	39.9	40.2	40.1	40.2	-	3.0	3.2	2.9	3.4	-
Electronic tubes	3671-3	41.3	41.0	39.8	38.8	-	3.4	3.2	2.9	3.1	-
Semiconductors and related devices	3674	39.6	40.0	40.9	40.5	-	3.5	3.8	4.1	4.1	-
Electronic components, nec	3679	40.2	40.6	40.4	40.7	-	2.9	3.1	2.7	3.4	-
Misc. electrical equipment and supplies	369	41.6	42.2	39.1	40.8	-	3.2	3.4	1.9	3.3	-
Storage batteries	3691	41.8	42.6	37.5	39.1	-	2.9	3.1	.8	1.9	-
Engine electrical equipment	3694	41.8	42.5	39.3	41.8	-	4.0	4.1	2.3	4.2	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a	May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	\$11.32	\$11.39	\$11.62	\$11.67	-	\$478.84	\$488.63	\$476.42	\$498.31	-
Construction machinery	3531	12.64	12.75	13.01	13.01	-	539.73	552.08	546.42	559.43	-
Mining machinery	3532	11.25	11.23	11.69	11.79	-	472.50	477.28	474.61	490.46	-
Oil field machinery	3533	11.05	11.04	11.07	11.04	-	456.37	470.30	467.15	501.22	-
Conveyors and conveying equipment	3535	10.32	10.37	10.41	10.58	-	446.86	456.28	414.32	444.36	-
Industrial trucks and tractors	3537	10.01	10.24	10.34	10.43	-	409.41	420.86	405.33	422.42	-
Metalworking machinery	354	11.70	11.73	11.94	12.04	-	506.61	511.43	488.35	509.29	-
Machine tools, metal cutting types	3541	11.65	11.58	11.98	12.09	-	516.10	512.99	475.61	499.32	-
Machine tools, metal forming types	3542	12.09	12.16	12.12	12.11	-	524.71	533.82	496.92	511.04	-
Special dies, tools, jigs, and fixtures	3544	12.49	12.57	12.70	12.80	-	545.81	551.82	527.05	552.96	-
Machine tool accessories	3545	10.56	10.58	10.77	10.80	-	447.74	450.71	436.19	449.28	-
Power driven hand tools	3546	9.35	9.37	9.71	9.93	-	392.70	401.04	390.34	409.12	-
Special industry machinery	355	11.47	11.51	11.67	11.81	-	481.74	489.18	476.14	500.74	-
Food products machinery	3551	11.53	11.49	11.81	12.01	-	481.95	490.62	486.57	506.82	-
Textile machinery	3552	9.59	9.61	9.95	10.07	-	406.62	409.39	413.92	426.97	-
Printing trades machinery	3555	12.36	12.39	12.48	12.67	-	478.33	481.97	479.23	503.00	-
General industrial machinery	356	10.86	10.89	11.22	11.48	-	459.38	463.91	447.68	481.01	-
Pumps and pumping equipment	3561	11.37	11.51	11.66	11.95	-	483.23	493.78	458.24	491.15	-
Ball and roller bearings	3562	11.33	11.40	11.61	12.12	-	491.72	497.04	467.88	522.37	-
Air and gas compressors	3563	10.50	10.64	11.53	11.58	-	457.80	464.97	488.87	512.99	-
Blowers and fans	3564	9.64	9.61	9.75	9.98	-	394.28	400.74	373.43	399.20	-
Speed changers, drives, and gears	3566	11.16	11.14	11.41	11.72	-	464.26	472.34	460.96	491.07	-
Power transmission equipment, nec	3568	10.42	10.37	10.77	10.97	-	434.51	435.54	424.34	460.74	-
Office and computing machines	357	11.05	11.13	11.36	11.27	-	457.47	464.12	469.17	471.09	-
Electronic computing equipment	3573	11.04	11.12	11.27	11.13	-	457.06	462.59	471.09	469.69	-
Refrigeration and service machinery	358	10.79	10.77	10.80	10.96	-	453.18	455.57	428.76	449.36	-
Refrigeration and heating equipment	3585	11.03	10.95	10.94	11.18	-	470.98	471.95	438.69	462.85	-
Misc. machinery, except electrical	359	10.98	10.97	11.13	11.26	-	457.87	462.93	451.88	469.54	-
Carburetors, pistons, rings, and valves	3592	13.17	13.25	12.62	12.81	-	555.77	559.15	489.66	536.74	-
Machinery, except electrical, nec	3599	10.69	10.67	10.95	11.06	-	445.77	449.21	446.76	461.20	-
Electrical and electronic equipment	36	10.33	10.37	10.58	10.62	\$10.68	417.33	423.10	418.97	430.11	\$435.74
Electric distributing equipment	361	9.42	9.42	9.97	10.06	-	391.87	392.81	396.81	415.48	-
Transformers	3612	9.14	9.04	9.77	9.83	-	384.79	382.39	398.62	408.93	-
Switchgear and switchboard apparatus	3613	9.72	9.81	10.18	10.29	-	399.49	404.17	396.00	421.89	-
Electrical industrial apparatus	362	10.06	10.05	10.18	10.24	-	419.50	423.11	410.25	428.03	-
Motors and generators	3621	10.01	10.03	9.94	9.96	-	419.42	421.26	393.62	412.34	-
Industrial controls	3622	9.88	9.85	10.24	10.32	-	398.16	410.75	404.48	425.18	-
Household appliances	363	10.14	10.16	10.16	10.22	-	398.50	400.30	389.13	401.65	-
Household refrigerators and freezers	3632	11.88	11.78	11.45	11.49	-	453.82	450.00	433.96	430.88	-
Household laundry equipment	3633	12.13	11.99	11.89	12.33	-	497.33	495.19	464.90	509.23	-
Electric housewares and fans	3634	7.53	7.50	7.57	7.56	-	304.21	303.00	289.93	302.40	-
Electric lighting and wiring equipment	364	9.77	9.85	10.05	10.18	-	387.87	394.00	385.92	411.27	-
Electric lamps	3641	10.95	10.92	11.55	11.53	-	442.38	438.98	455.07	466.97	-
Current-carrying wiring devices	3643	9.57	9.74	9.76	9.94	-	378.97	389.60	375.76	403.56	-
Noncurrent-carrying wiring devices	3644	9.26	9.42	9.37	9.49	-	369.47	380.57	354.19	389.09	-
Residential lighting fixtures	3645	7.37	7.45	7.57	7.60	-	277.85	282.36	281.60	288.80	-
Radio and TV receiving equipment	365	9.59	9.56	9.33	9.50	-	377.85	386.22	354.54	380.00	-
Radio and TV receiving sets	3651	10.08	10.01	9.70	9.82	-	390.10	400.40	359.87	399.67	-
Communication equipment	366	12.37	12.41	12.71	12.74	-	503.46	508.81	514.76	517.24	-
Telephone and telegraph apparatus	3661	11.71	11.65	11.36	11.46	-	485.97	491.63	485.07	485.90	-
Radio and TV communication equipment	3662	12.64	12.73	13.28	13.28	-	509.39	515.57	525.89	529.87	-
Electronic components and accessories	367	9.55	9.63	9.99	9.94	-	381.05	387.13	400.60	399.59	-
Electronic tubes	3671-3	12.01	12.15	12.84	12.95	-	496.01	498.15	511.03	502.46	-
Semiconductors and related devices	3674	11.61	11.73	11.98	11.91	-	459.76	469.20	489.98	482.36	-
Electronic components, nec	3679	8.50	8.55	8.90	8.88	-	341.70	347.13	359.56	361.42	-
Misc. electrical equipment and supplies	369	10.97	11.02	10.99	11.15	-	456.35	465.04	429.71	454.92	-
Storage batteries	3691	11.56	11.66	11.76	11.92	-	483.21	496.72	441.00	466.07	-
Engine electrical equipment	3694	11.76	11.69	11.62	11.82	-	491.57	496.83	456.67	494.08	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P	May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P
Durable goods—Continued											
Transportation equipment	37	42.7	42.6	40.8	42.8	43.0	4.5	4.5	2.9	4.5	-
Motor vehicles and equipment	371	43.3	43.0	40.9	43.8	44.3	4.7	4.7	2.6	5.2	-
Motor vehicles and car bodies	3711	43.4	43.0	41.2	44.0	-	4.7	4.7	2.5	5.2	-
Truck and bus bodies	3713	42.7	43.0	39.9	41.5	-	3.7	4.0	2.1	3.6	-
Motor vehicle parts and accessories	3714	43.8	43.4	41.1	44.4	-	5.2	5.0	2.8	5.6	-
Truck trailers	3715	40.3	40.2	39.1	39.8	-	2.3	2.7	2.0	2.7	-
Aircraft and parts	372	42.7	43.0	41.4	42.4	-	4.9	5.2	3.8	4.5	-
Aircraft	3721	42.7	43.0	41.8	42.1	-	5.0	5.2	4.2	4.4	-
Aircraft engines and engine parts	3724	41.9	42.2	40.9	42.6	-	4.6	4.9	3.3	4.9	-
Aircraft equipment, nec	3728	43.2	43.5	41.3	42.7	-	5.1	5.4	3.6	4.2	-
Ship and boat building and repairing	373	40.6	40.2	39.5	40.5	-	3.0	2.7	2.4	3.1	-
Ship building and repairing	3731	41.3	41.2	39.9	41.1	-	3.1	2.9	2.4	3.1	-
Boat building and repairing	3732	39.7	38.8	38.9	39.4	-	2.8	2.5	2.2	3.0	-
Railroad equipment	374	42.0	43.1	39.8	41.7	-	3.4	4.3	2.0	2.6	-
Guided missiles, space vehicles, and parts	376	42.7	42.7	41.3	42.4	-	4.0	3.9	3.3	3.8	-
Guided missiles and space vehicles	3761	43.1	42.9	41.1	42.4	-	4.1	4.2	3.5	3.9	-
Miscellaneous transportation equipment	379	39.5	39.5	39.2	40.3	-	2.2	2.3	1.7	2.9	-
Travel trailers and campers	3792	38.4	39.0	37.9	38.7	-	1.6	1.7	1.1	2.2	-
Instruments and related products	38	40.8	41.3	40.4	40.9	41.1	2.7	2.7	2.1	2.7	-
Engineering and scientific instruments	381	41.6	41.9	41.6	41.9	-	2.8	2.8	2.3	2.6	-
Measuring and controlling devices	382	40.6	41.2	40.5	41.0	-	2.5	2.6	2.0	2.5	-
Environmental controls	3822	39.8	40.5	39.3	40.6	-	2.0	2.3	1.7	2.4	-
Process control instruments	3823	42.9	43.0	41.4	42.5	-	3.7	3.6	3.0	3.7	-
Instruments to measure electricity	3825	39.8	40.5	40.6	40.2	-	2.1	2.2	1.5	1.9	-
Optical instruments and lenses	383	42.6	43.0	41.0	41.1	-	2.5	2.7	2.4	2.3	-
Medical instruments and supplies	384	40.2	40.4	40.0	40.6	-	2.6	2.6	2.0	2.8	-
Surgical and medical instruments	3841	39.9	40.8	40.5	40.5	-	2.5	2.9	2.3	2.7	-
Surgical appliances and supplies	3842	40.4	39.7	39.5	40.6	-	2.7	2.3	1.7	2.7	-
Ophthalmic goods	385	40.5	40.7	38.7	39.8	-	2.9	2.4	1.7	2.3	-
Photographic equipment and supplies	386	42.6	43.7	41.4	41.4	-	3.6	3.5	2.7	3.6	-
Watches, clocks, and watchcases	387	39.1	39.3	36.3	39.0	-	1.3	1.4	1.1	2.0	-
Miscellaneous manufacturing	39	39.4	39.4	38.2	39.3	39.3	2.3	2.4	1.7	2.4	-
Jewelry, silverware, and plated ware	391	38.2	37.5	37.5	37.7	-	1.7	1.3	1.1	1.5	-
Jewelry, precious metal	3911	38.0	36.9	37.3	37.1	-	1.6	1.1	1.1	1.4	-
Musical instruments	393	39.2	38.6	37.9	39.8	-	1.9	1.7	1.6	2.3	-
Toys and sporting goods	394	39.8	39.9	38.3	39.5	-	2.4	2.6	1.7	2.6	-
Dolls, games, toys, and children's vehicles	3942,4	38.1	38.7	36.8	38.6	-	1.2	1.7	1.1	2.0	-
Sporting and athletic goods, nec	3949	41.0	40.8	39.3	40.2	-	3.2	3.3	2.1	3.0	-
Pens, pencils, office, and art supplies	395	40.0	40.3	39.2	39.7	-	2.4	2.7	1.7	2.2	-
Costume jewelry and notions	396	38.0	38.6	37.9	40.3	-	2.1	2.8	1.9	2.9	-
Costume jewelry	3961	36.6	37.6	37.9	41.9	-	2.0	2.9	2.7	4.1	-
Miscellaneous manufactures	399	40.0	40.0	38.3	39.3	-	2.6	2.6	1.8	2.4	-
Signs and advertising displays	3993	39.9	39.9	39.3	39.8	-	2.8	2.9	2.3	2.9	-
Nondurable goods		40.0	40.3	39.1	39.9	40.2	3.5	3.6	3.0	3.4	3.6
Food and kindred products	20	40.4	40.7	39.7	40.6	40.8	4.0	4.4	3.7	4.2	-
Meat products	201	40.6	40.9	38.9	40.3	-	4.1	4.4	3.1	4.1	-
Meat packing plants	2011	41.4	41.9	40.5	41.7	-	4.9	5.3	3.9	5.2	-
Sausages and other prepared meats	2013	41.6	41.9	40.4	40.8	-	4.8	4.9	4.3	4.7	-
Poultry dressing plants	2016	39.8	40.0	37.2	39.3	-	3.4	3.7	2.1	3.2	-
Dairy products	202	40.9	41.3	41.3	41.1	-	4.2	4.4	4.5	4.8	-
Cheese, natural and processed	2022	39.1	40.2	39.9	39.6	-	3.5	4.1	3.7	4.1	-
Fluid milk	2026	41.6	41.7	42.2	41.6	-	4.5	4.5	5.3	5.0	-
Preserved fruits and vegetables	203	39.1	39.0	38.9	39.7	-	3.2	3.9	3.3	3.4	-
Canned specialties	2032	41.5	42.3	39.5	41.1	-	4.7	5.5	2.6	3.3	-
Canned fruits and vegetables	2033	40.0	37.8	38.6	40.8	-	3.3	4.1	2.8	3.4	-
Frozen fruits and vegetables	2037	37.1	37.7	37.7	38.3	-	2.2	3.5	3.5	3.1	-
Grain mill products	204	43.7	44.3	42.7	43.9	-	5.5	5.9	4.6	5.2	-
Flour and other grain mill products	2041	45.3	46.3	45.8	47.2	-	5.5	6.1	4.6	5.4	-
Prepared feeds, nec	2048	42.4	42.7	42.1	42.8	-	5.6	5.8	5.3	5.8	-
Bakery products	205	39.7	39.7	39.4	39.6	-	4.0	4.2	4.0	4.1	-
Bread, cake, and related products	2051	39.0	39.3	39.8	39.6	-	4.3	4.5	4.5	4.4	-
Cookies and crackers	2052	41.4	40.9	38.3	39.6	-	3.2	3.4	2.8	3.2	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a	May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a
Durable goods—Continued											
Transportation equipment	37	\$13.58	\$13.65	\$13.91	\$14.15	\$14.21	\$579.87	\$581.49	\$567.53	\$605.62	\$611.03
Motor vehicles and equipment	371	14.17	14.22	14.43	14.75	14.82	613.56	611.46	590.19	646.05	656.53
Motor vehicles and car bodies	3711	16.30	16.45	16.82	17.12	-	707.42	707.35	692.98	753.28	-
Truck and bus bodies	3713	11.61	11.79	12.35	12.57	-	495.75	506.97	492.77	521.66	-
Motor vehicle parts and accessories	3714	13.19	13.20	13.26	13.63	-	577.72	572.88	544.99	605.17	-
Truck trailers	3715	9.40	9.56	9.42	9.48	-	378.82	384.31	368.32	377.30	-
Aircraft and parts	372	14.06	14.12	14.63	14.73	-	600.36	607.16	605.68	624.55	-
Aircraft	3721	(^b)	(^b)	(^b)	(^b)	-	-	-	-	-	-
Aircraft engines and engine parts	3724	\$14.20	\$14.30	\$14.51	\$14.63	-	\$594.98	\$603.46	\$593.46	\$623.24	-
Aircraft equipment, nec	3728	12.91	12.98	13.27	13.38	-	557.71	564.63	548.05	571.33	-
Ship and boat building and repairing	373	10.48	10.57	10.58	10.81	-	425.49	424.91	417.91	437.81	-
Ship building and repairing	3731	11.66	11.68	11.67	11.89	-	481.56	481.22	465.63	488.68	-
Boat building and repairing	3732	8.71	8.82	8.69	8.83	-	345.79	342.22	338.04	347.90	-
Railroad equipment	374	12.57	12.67	13.17	13.36	-	527.94	546.08	524.17	557.11	-
Guided missiles, space vehicles, and parts	376	13.60	13.65	14.16	14.28	-	580.72	582.86	584.81	605.47	-
Guided missiles and space vehicles	3761	(^b)	(^b)	(^b)	(^b)	-	-	-	-	-	-
Miscellaneous transportation equipment	379	\$10.24	\$10.30	\$10.54	\$10.69	-	\$404.48	\$406.85	\$413.17	\$430.81	-
Travel trailers and campers	3792	8.98	8.96	9.52	9.54	-	344.83	349.44	360.81	369.20	-
Instruments and related products	38	10.17	10.25	10.57	10.60	10.62	414.94	423.33	427.03	433.54	436.48
Engineering and scientific instruments	381	11.37	11.44	11.88	11.94	-	472.99	479.34	494.21	500.29	-
Measuring and controlling devices	382	9.93	10.02	10.36	10.37	-	403.16	412.82	419.58	425.17	-
Environmental controls	3822	9.28	9.35	9.24	9.26	-	369.34	378.68	363.13	375.96	-
Process control instruments	3823	9.50	9.62	10.19	10.22	-	407.55	413.66	421.87	434.35	-
Instruments to measure electricity	3825	10.17	10.30	10.77	10.73	-	404.77	417.15	437.26	431.35	-
Optical instruments and lenses	383	11.14	11.31	11.93	11.82	-	474.56	486.33	489.13	485.80	-
Medical instruments and supplies	384	9.26	9.28	9.47	9.59	-	372.25	374.91	378.80	389.35	-
Surgical and medical instruments	3841	9.38	9.46	9.62	9.70	-	374.26	385.97	389.61	392.85	-
Surgical appliances and supplies	3842	9.11	9.08	9.30	9.45	-	368.04	360.48	367.35	383.67	-
Ophthalmic goods	385	7.71	7.66	8.04	8.09	-	312.26	311.76	311.15	321.98	-
Photographic equipment and supplies	386	13.35	13.53	14.26	14.13	-	568.71	591.26	590.36	584.98	-
Watches, clocks, and watchcases	387	7.46	7.46	7.67	7.74	-	291.69	293.18	278.42	301.86	-
Miscellaneous manufacturing	39	8.24	8.24	8.57	8.59	8.61	324.66	324.66	327.37	337.59	338.37
Jewelry, silverware, and plated ware	391	8.81	8.84	9.26	9.24	-	336.54	331.50	347.25	348.35	-
Jewelry, precious metal	3911	8.80	8.82	9.22	9.19	-	334.40	325.46	343.91	340.95	-
Musical instruments	393	8.20	8.34	8.49	8.50	-	321.44	321.92	321.77	338.30	-
Toys and sporting goods	394	7.53	7.53	7.83	7.84	-	299.69	300.45	299.89	309.68	-
Dolls, games, toys, and children's vehicles	3942,4	7.41	7.40	7.77	7.82	-	282.32	286.38	285.94	301.85	-
Sporting and athletic goods, nec	3949	7.61	7.62	7.88	7.86	-	312.01	310.90	309.68	315.97	-
Pens, pencils, office, and art supplies	395	8.09	8.04	8.80	8.81	-	323.60	324.01	344.96	349.76	-
Costume jewelry and notions	396	7.03	7.08	7.29	7.31	-	267.14	273.29	276.29	294.59	-
Costume jewelry	3961	6.56	6.66	6.66	6.75	-	240.10	250.42	252.41	282.83	-
Miscellaneous manufactures	399	9.00	8.98	9.28	9.36	-	360.00	359.20	355.42	367.85	-
Signs and advertising displays	3993	9.35	9.32	9.72	9.74	-	373.07	371.87	382.00	387.65	-
Nondurable goods		9.68	9.70	10.09	10.08	10.09	387.20	390.91	394.52	402.19	405.62
Food and kindred products	20	9.34	9.37	9.57	9.59	9.62	377.34	381.36	379.93	389.35	392.50
Meat products	201	7.72	7.74	7.90	7.95	-	313.43	316.57	307.31	320.39	-
Meat packing plants	2011	8.64	8.63	8.63	8.79	-	357.70	361.60	349.52	366.54	-
Sausages and other prepared meats	2013	9.14	9.18	9.36	9.39	-	380.22	384.64	378.14	383.11	-
Poultry dressing plants	2016	6.50	6.57	6.83	6.84	-	258.70	262.80	254.08	268.81	-
Dairy products	202	10.14	10.13	10.37	10.49	-	414.73	418.37	428.28	431.14	-
Cheese, natural and processed	2022	9.46	9.48	9.58	9.74	-	369.89	381.10	382.24	385.70	-
Fluid milk	2026	10.58	10.60	10.89	10.92	-	440.13	442.02	459.56	454.27	-
Preserved fruits and vegetables	203	8.78	8.73	8.93	8.99	-	343.30	340.47	347.38	356.90	-
Canned specialties	2032	10.80	10.67	10.72	11.06	-	448.20	451.34	423.44	454.57	-
Canned fruits and vegetables	2033	8.81	8.94	9.15	9.11	-	352.40	337.93	353.19	371.69	-
Frozen fruits and vegetables	2037	7.91	7.75	8.13	8.17	-	293.46	292.18	306.50	312.91	-
Grain mill products	204	11.31	11.44	11.12	11.21	-	494.25	506.79	474.82	492.12	-
Flour and other grain mill products	2041	10.84	10.97	10.32	10.19	-	491.05	507.91	472.66	480.97	-
Prepared feeds, nec	2048	8.75	8.79	9.08	9.09	-	371.00	375.33	382.27	389.05	-
Bakery products	205	10.45	10.53	10.78	10.87	-	414.87	418.04	424.73	430.45	-
Bread, cake, and related products	2051	10.42	10.45	10.81	10.94	-	406.38	410.69	430.24	433.22	-
Cookies and crackers	2052	10.53	10.73	10.68	10.69	-	435.94	438.86	409.04	423.32	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a	May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	40.1	40.9	39.4	40.3	-	3.1	3.5	2.5	2.9	-
Cane and beet sugar	2061-3	43.0	43.6	41.6	41.2	-	4.0	5.0	4.7	4.1	-
Confectionery products	2065	38.7	39.5	38.6	39.5	-	2.7	2.9	1.9	2.3	-
Fats and oils	207	43.1	43.6	43.4	43.7	-	5.0	5.3	5.2	5.4	-
Beverages	208	41.8	42.2	41.2	41.6	-	4.2	4.6	4.8	4.9	-
Malt beverages	2082	43.6	44.4	43.4	42.8	-	6.2	6.8	8.3	7.0	-
Bottled and canned soft drinks	2086	41.2	41.6	40.3	41.7	-	4.0	4.3	3.5	4.8	-
Misc. food and kindred products	209	38.5	38.8	38.6	39.7	-	4.0	4.2	3.9	4.5	-
Tobacco manufactures	21	39.5	40.1	38.1	39.1	39.3	2.3	2.4	1.7	1.7	-
Cigarettes	211	39.9	40.3	38.3	39.3	-	2.6	2.5	1.8	1.8	-
Textile mill products	22	41.2	41.6	39.0	40.3	41.0	4.0	4.3	2.7	3.6	-
Weaving mills, cotton	221	41.6	41.9	39.1	40.1	-	4.4	4.8	3.5	3.9	-
Weaving mills, synthetics	222	41.5	41.6	39.9	41.0	-	4.2	4.3	2.8	3.9	-
Weaving and finishing mills, wool	223	41.3	41.3	37.6	41.1	-	3.1	3.4	.8	3.7	-
Narrow fabric mills	224	41.8	42.5	40.0	40.5	-	3.6	4.0	2.2	2.8	-
Knitting mills	225	40.2	41.0	37.4	39.1	-	3.5	4.0	2.2	2.9	-
Women's hosiery, except socks	2251	38.1	39.3	37.0	38.2	-	2.2	2.8	1.9	2.6	-
Hosiery, nec	2252	39.0	40.8	35.1	37.8	-	3.0	4.0	1.1	2.1	-
Knit outerwear mills	2253	40.4	40.6	37.5	39.2	-	4.0	4.0	2.6	3.4	-
Knit underwear mills	2254	40.0	40.4	37.0	38.7	-	2.2	2.5	.9	1.5	-
Circular knit fabric mills	2257	41.6	42.5	39.2	40.4	-	4.5	5.3	3.1	3.8	-
Textile finishing, except wool	226	42.7	43.1	40.4	41.6	-	5.0	5.4	3.2	4.6	-
Finishing plants, cotton	2261	42.7	43.3	40.4	41.1	-	4.8	5.3	3.1	3.8	-
Finishing plants, synthetics	2262	42.7	42.4	40.4	42.1	-	5.1	5.3	3.2	5.0	-
Floor covering mills	227	41.7	42.1	41.4	41.3	-	4.4	4.5	3.0	4.1	-
Yarn and thread mills	228	41.0	41.0	38.5	40.1	-	4.1	4.2	2.8	3.8	-
Yarn mills, except wool	2281	41.3	41.2	38.9	40.6	-	4.4	4.5	3.0	4.1	-
Throwing and winding mills	2282	39.6	39.3	37.6	37.1	-	2.6	2.7	2.4	2.2	-
Miscellaneous textile goods	229	41.8	42.3	40.5	41.2	-	3.8	4.1	3.2	4.1	-
Apparel and other textile products	23	37.0	37.4	35.2	36.5	36.9	1.8	1.9	1.0	1.5	-
Men's and boys' suits and coats	231	36.2	36.4	34.2	35.4	-	.9	1.1	.6	.7	-
Men's and boys' furnishings	232	37.0	37.8	34.9	36.3	-	1.5	1.8	.8	1.2	-
Men's and boys' shirts and nightwear	2321	37.3	38.8	35.3	36.4	-	1.3	1.6	.6	1.0	-
Men's and boys' separate trousers	2327	36.1	36.6	33.6	35.0	-	1.3	1.5	.9	1.1	-
Men's and boys' work clothing	2328	36.6	37.1	34.1	36.1	-	1.8	2.0	.8	1.4	-
Women's and misses' outerwear	233	35.6	35.7	33.7	34.9	-	1.6	1.6	1.1	1.3	-
Women's and misses' blouses and waists	2331	35.8	36.1	33.9	35.7	-	1.0	1.4	.7	1.0	-
Women's and misses' dresses	2335	34.8	34.8	32.1	33.7	-	1.6	1.6	1.0	1.2	-
Women's and misses' suits and coats	2337	36.7	36.4	33.8	35.5	-	2.2	2.2	.7	1.4	-
Women's and misses' outerwear, nec	2339	35.6	35.8	34.3	35.0	-	1.6	1.6	1.2	1.3	-
Women's and children's undergarments	234	37.6	37.7	36.4	37.7	-	1.6	1.6	.8	1.1	-
Women's and children's underwear	2341	37.9	38.3	36.8	38.2	-	1.5	1.7	.8	1.1	-
Brassieres and allied garments	2342	36.0	34.8	34.3	35.4	-	1.9	1.1	.9	.9	-
Children's outerwear	236	36.8	37.3	34.9	36.2	-	1.8	1.9	.8	1.4	-
Children's dresses and blouses	2361	35.8	36.0	34.7	36.0	-	1.6	1.6	.9	1.5	-
Misc. apparel and accessories	238	38.2	38.1	36.4	37.3	-	2.2	2.2	.9	1.6	-
Misc. fabricated textile products	239	39.1	39.4	37.3	38.8	-	2.8	2.9	1.5	2.6	-
Curtains and draperies	2391	38.4	38.0	36.2	37.0	-	2.4	1.9	1.3	1.6	-
House furnishings, nec	2392	38.7	39.3	36.8	37.9	-	2.5	2.7	1.0	2.2	-
Automotive and apparel trimmings	2396	41.1	41.3	39.1	40.5	-	4.6	4.7	2.2	3.6	-
Paper and allied products	26	43.1	43.2	42.5	43.2	43.4	4.9	5.0	4.6	4.9	-
Paper and pulp mills	261,2,6	45.4	44.7	46.1	45.4	-	6.7	6.1	7.3	6.3	-
Paper mills, except building paper	262	45.6	45.0	46.3	45.6	-	6.8	6.3	7.5	6.5	-
Paperboard mills	263	44.4	44.7	45.3	45.6	-	6.7	7.0	7.9	7.7	-
Misc. converted paper products	264	41.6	41.8	40.5	41.3	-	3.6	3.8	3.0	3.6	-
Paper coating and glazing	2641	43.2	43.7	41.9	43.3	-	3.8	4.0	3.2	4.0	-
Envelopes	2642	41.2	41.0	40.8	41.1	-	2.9	2.5	2.9	3.0	-
Bags, except textile bags	2643	41.0	41.2	40.3	41.5	-	4.0	4.0	3.4	4.0	-
Paperboard containers and boxes	265	42.3	43.0	40.6	42.6	-	4.3	4.7	3.0	4.4	-
Folding paperboard boxes	2651	42.1	42.3	39.8	41.2	-	4.2	4.4	2.7	4.1	-
Corrugated and solid fiber boxes	2653	42.8	43.7	41.1	43.4	-	4.6	5.1	3.5	5.0	-
Sanitary food containers	2654	42.4	43.4	41.0	44.3	-	4.8	5.2	2.6	4.9	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a	May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	\$9.98	\$9.93	\$10.31	\$10.41	-	\$400.20	\$406.14	\$406.21	\$419.52	-
Cane and beet sugar	2061-3	11.52	11.58	11.99	11.98	-	495.36	504.89	498.78	493.58	-
Confectionery products	2065	8.87	8.82	9.23	9.30	-	343.27	348.39	356.28	367.35	-
Fats and oils	207	9.72	9.80	10.04	10.11	-	418.93	427.28	435.74	441.81	-
Beverages	208	12.74	12.91	13.54	13.37	-	532.53	544.80	557.85	556.19	-
Malt beverages	2082	17.76	18.05	19.04	18.71	-	774.34	801.42	826.34	800.79	-
Bottled and canned soft drinks	2086	10.24	10.35	10.57	10.68	-	421.89	430.56	425.97	445.36	-
Misc. food and kindred products	209	8.74	8.73	8.99	8.90	-	336.49	338.72	347.01	353.33	-
Tobacco manufactures	21	16.13	16.48	17.10	17.17	\$17.16	637.14	660.85	651.51	671.35	\$674.39
Cigarettes	211	18.27	18.64	19.14	19.30	-	728.97	751.19	733.06	758.49	-
Textile mill products	22	7.62	7.65	7.93	7.99	8.03	313.94	318.24	309.27	322.00	329.23
Weaving mills, cotton	221	7.94	8.00	8.16	8.23	-	330.30	335.20	319.06	330.02	-
Weaving mills, synthetics	222	8.26	8.24	8.56	8.61	-	342.79	342.78	341.54	353.01	-
Weaving and finishing mills, wool	223	8.42	8.56	8.42	8.67	-	347.75	353.53	316.59	356.34	-
Narrow fabric mills	224	7.11	7.18	7.33	7.32	-	297.20	305.15	293.20	296.46	-
Knitting mills	225	6.86	6.90	7.29	7.35	-	275.77	282.90	272.65	287.39	-
Women's hosiery, except socks	2251	6.75	6.78	6.74	6.85	-	257.18	266.45	249.38	261.67	-
Hosiery, nec	2252	6.69	6.76	6.99	7.00	-	260.91	275.81	245.35	264.60	-
Knit outerwear mills	2253	6.44	6.49	7.18	7.26	-	260.18	263.49	269.25	284.59	-
Knit underwear mills	2254	6.79	6.86	7.36	7.38	-	271.60	277.14	272.32	285.61	-
Circular knit fabric mills	2257	7.70	7.75	8.05	8.04	-	320.32	329.38	315.56	324.82	-
Textile finishing, except wool	226	8.07	8.13	8.25	8.35	-	344.59	350.40	333.30	347.36	-
Finishing plants, cotton	2261	8.03	8.16	8.18	8.31	-	342.88	353.33	330.47	341.54	-
Finishing plants, synthetics	2262	8.44	8.43	8.62	8.70	-	360.39	357.43	348.25	366.27	-
Floor covering mills	227	7.91	7.94	8.20	8.16	-	329.85	334.27	339.48	337.01	-
Yarn and thread mills	228	7.34	7.37	7.62	7.71	-	300.94	302.17	293.37	309.17	-
Yarn mills, except wool	2281	7.34	7.38	7.61	7.71	-	303.14	304.06	296.03	313.03	-
Throwing and winding mills	2282	7.37	7.35	7.88	7.89	-	291.85	288.86	296.29	292.72	-
Miscellaneous textile goods	229	8.59	8.57	8.85	9.04	-	359.06	362.51	358.43	372.45	-
Apparel and other textile products	23	6.32	6.33	6.57	6.60	6.62	233.84	236.74	231.26	240.90	244.28
Men's and boys' suits and coats	231	7.05	7.07	7.35	7.41	-	255.21	257.35	251.37	262.31	-
Men's and boys' furnishings	232	5.79	5.77	6.16	6.12	-	214.23	218.11	214.98	222.16	-
Men's and boys' shirts and nightwear	2321	5.70	5.61	6.13	6.04	-	212.61	217.67	216.39	219.86	-
Men's and boys' separate trousers	2327	5.60	5.61	5.95	5.91	-	202.16	205.33	199.92	206.85	-
Men's and boys' work clothing	2328	5.74	5.73	6.07	6.05	-	210.08	212.58	206.99	218.41	-
Women's and misses' outerwear	233	6.05	6.10	6.22	6.23	-	215.38	217.77	209.61	217.43	-
Women's and misses' blouses and waists	2331	5.27	5.29	5.52	5.51	-	188.67	190.97	187.13	196.71	-
Women's and misses' dresses	2335	6.56	6.65	6.60	6.64	-	228.29	231.42	211.86	223.77	-
Women's and misses' suits and coats	2337	6.34	6.45	6.67	6.75	-	232.68	234.78	225.45	239.63	-
Women's and misses' outerwear, nec	2339	5.96	5.98	6.14	6.13	-	212.18	214.08	210.60	214.55	-
Women's and children's undergarments	234	5.95	5.90	6.20	6.21	-	223.72	222.43	225.68	234.12	-
Women's and children's underwear	2341	5.78	5.75	6.06	6.07	-	219.06	220.23	223.01	231.87	-
Brassieres and allied garments	2342	6.81	6.74	7.01	6.97	-	245.16	234.55	240.44	246.74	-
Children's outerwear	236	5.60	5.65	5.80	5.86	-	206.08	210.75	202.42	212.13	-
Children's dresses and blouses	2361	5.62	5.60	5.72	5.72	-	201.20	201.60	198.48	205.92	-
Misc. apparel and accessories	238	6.14	6.12	6.36	6.39	-	234.55	233.17	231.50	238.35	-
Misc. fabricated textile products	239	7.60	7.62	7.75	7.88	-	297.16	300.23	289.08	305.74	-
Curtains and draperies	2391	6.30	6.38	6.47	6.61	-	241.92	242.44	234.21	244.57	-
House furnishings, nec	2392	6.39	6.40	6.55	6.62	-	247.29	251.52	241.04	250.90	-
Automotive and apparel trimmings	2396	11.72	11.80	11.34	11.62	-	481.69	487.34	443.39	470.61	-
Paper and allied products	26	11.89	11.91	12.27	12.27	12.19	512.46	514.51	521.48	530.06	529.05
Paper and pulp mills	261,2,6	14.62	14.66	15.25	15.15	-	663.75	655.30	703.03	687.81	-
Paper mills, except building paper	262	14.63	14.69	15.21	15.11	-	667.13	661.05	704.22	689.02	-
Paperboard mills	263	14.67	14.60	15.18	15.31	-	651.35	652.62	687.65	698.14	-
Misc. converted paper products	264	10.31	10.39	10.59	10.69	-	428.90	434.30	428.90	441.50	-
Paper coating and glazing	2641	11.43	11.39	11.97	12.03	-	493.78	497.74	501.54	520.90	-
Envelopes	2642	9.65	9.72	9.92	10.05	-	397.58	398.52	404.74	413.06	-
Bags, except textile bags	2643	9.50	9.60	9.94	9.90	-	389.50	395.52	400.58	410.85	-
Paperboard containers and boxes	265	10.16	10.16	10.21	10.33	-	429.77	436.88	414.53	440.06	-
Folding paperboard boxes	2651	10.56	10.58	10.78	10.95	-	444.58	447.53	429.04	451.14	-
Corrugated and solid fiber boxes	2653	10.33	10.35	10.31	10.46	-	442.12	452.30	423.74	453.96	-
Sanitary food containers	2654	10.01	9.87	9.87	10.00	-	424.42	428.36	404.67	443.00	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P	May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P
Nondurable goods—Continued											
Printing and publishing	27	37.4	37.4	37.2	37.6	37.5	2.7	2.5	2.5	2.7	-
Newspapers	271	33.0	33.0	32.7	33.1	-	1.3	1.2	1.2	1.3	-
Periodicals	272	37.7	37.0	37.6	37.6	-	2.6	2.2	2.9	2.9	-
Books	273	39.3	38.0	37.9	38.8	-	3.4	2.3	2.5	3.0	-
Book publishing	2731	38.9	37.6	38.4	39.6	-	3.0	1.9	2.4	2.7	-
Book printing	2732	40.0	38.6	37.1	37.6	-	4.1	2.9	2.8	3.4	-
Miscellaneous publishing	274	36.0	36.2	36.2	36.8	-	1.9	1.7	1.8	1.7	-
Commercial printing	275	38.6	38.8	38.6	38.8	-	3.1	3.0	3.0	3.2	-
Commercial printing, letterpress	2751	38.6	38.5	38.2	38.6	-	2.8	2.7	2.5	2.7	-
Commercial printing, lithographic	2752	38.4	38.8	38.6	38.8	-	3.0	3.0	3.2	3.3	-
Manifold business forms	276	40.8	41.9	40.5	40.6	-	3.3	4.0	2.2	2.6	-
Blankbooks and bookbinding	278	38.3	38.3	36.4	37.2	-	2.8	2.7	2.0	2.3	-
Printing trade services	279	38.0	38.2	38.7	38.9	-	3.4	3.6	3.6	4.0	-
Chemicals and allied products	28	42.1	42.5	42.5	42.2	42.6	4.0	4.3	4.1	4.1	-
Industrial inorganic chemicals	281	42.7	43.1	43.7	43.0	-	4.3	4.4	5.0	4.6	-
Industrial inorganic chemicals, nec	2819	42.5	42.7	43.8	42.8	-	4.0	4.3	5.1	4.5	-
Plastics materials and synthetics	282	43.0	43.2	43.2	42.3	-	4.9	5.1	5.2	4.9	-
Plastics materials and resins	2821	43.4	43.8	44.5	43.4	-	5.1	5.3	5.7	5.4	-
Organic fibers, noncellulosic	2824	43.0	43.5	41.9	41.2	-	4.6	4.8	4.3	4.4	-
Drugs	283	41.2	42.1	41.4	41.2	-	3.5	3.7	3.4	3.3	-
Pharmaceutical preparations	2834	40.8	41.8	41.4	41.1	-	3.5	3.6	3.2	3.0	-
Soap, cleaners, and toilet goods	284	39.5	40.2	39.8	40.7	-	2.4	2.9	2.2	2.8	-
Soap and other detergents	2841	41.6	42.9	40.9	42.0	-	4.4	5.3	2.6	4.3	-
Polishing, sanitation, and finishing preparations	2842,3	40.3	41.3	40.4	41.7	-	2.5	2.8	2.3	2.9	-
Toilet preparations	2844	38.0	38.2	38.7	39.4	-	1.3	1.7	1.8	1.9	-
Paints and allied products	285	41.9	42.4	41.1	42.5	-	3.6	4.0	3.1	4.1	-
Industrial organic chemicals	286	44.4	44.4	44.8	43.9	-	5.5	5.7	5.4	4.8	-
Cyclic crudes and intermediates	2865	44.2	44.8	44.5	43.7	-	5.4	6.3	5.5	4.7	-
Gum, wood, and industrial organic chemicals, nec	2861,9	44.4	44.3	44.9	43.9	-	5.5	5.5	5.3	4.8	-
Agricultural chemicals	287	43.1	43.1	45.1	44.4	-	4.9	4.5	6.0	5.7	-
Miscellaneous chemical products	289	42.0	41.8	42.5	42.0	-	3.5	3.9	3.2	3.7	-
Petroleum and coal products	29	43.9	44.6	44.3	43.9	45.0	5.7	5.4	5.8	5.9	-
Petroleum refining	291	44.1	44.9	44.9	43.6	-	5.7	5.0	5.8	5.5	-
Paving and roofing materials	295	44.2	44.7	44.0	46.1	-	6.8	7.7	7.1	8.4	-
Rubber and misc. plastics products	30	41.5	41.6	40.0	41.4	41.3	3.8	3.9	2.8	3.8	-
Tires and inner tubes	301	46.0	44.1	41.3	43.6	-	6.0	5.2	3.5	5.2	-
Rubber and plastics footwear	302	40.4	40.8	38.8	41.0	-	1.8	2.0	1.5	2.2	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	42.8	43.0	41.6	43.2	-	4.2	3.9	3.6	4.8	-
Fabricated rubber products, nec	306	40.5	40.7	39.7	41.8	-	2.9	3.0	2.1	3.5	-
Miscellaneous plastics products	307	41.0	41.3	39.9	41.0	-	3.7	3.9	2.8	3.6	-
Leather and leather products	31	37.6	38.7	36.3	37.5	38.0	1.8	2.1	1.3	1.7	-
Leather tanning and finishing	311	42.0	42.6	40.7	41.4	-	4.6	5.3	3.1	3.6	-
Footwear, except rubber	314	37.1	38.6	35.8	36.8	-	1.3	1.7	.8	1.2	-
Men's footwear, except athletic	3143	37.7	38.5	35.5	36.6	-	1.1	1.3	.5	.9	-
Women's footwear, except athletic	3144	36.0	38.1	35.8	36.9	-	1.5	2.1	.9	1.3	-
Luggage	316	39.5	39.8	37.3	39.6	-	2.5	3.3	1.4	2.1	-
Handbags and personal leather goods	317	35.8	35.9	34.6	36.6	-	1.6	1.7	1.8	2.1	-
Transportation and public utilities		39.3	39.6	39.1	39.1	39.5	-	-	-	-	-
Railroad transportation:											
Class I railroads ³	4011	45.3	45.0	45.9	46.0	-	-	-	-	-	-
Local and interurban passenger transit	41	34.3	34.7	32.9	34.0	-	-	-	-	-	-
Local and suburban transportation	411	38.1	38.7	38.7	38.1	-	-	-	-	-	-
Intercity highway transportation	413	39.8	39.5	38.2	38.5	-	-	-	-	-	-
Trucking and warehousing	42	38.3	38.7	38.1	38.6	-	-	-	-	-	-
Trucking and trucking terminals	421,3	38.3	38.7	38.0	38.6	-	-	-	-	-	-
Public warehousing	422	38.9	38.9	39.1	38.9	-	-	-	-	-	-
Pipe lines, except natural gas	46	41.0	42.0	41.2	40.5	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P	May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P
Nondurable goods—Continued											
Printing and publishing	27	\$10.76	\$10.75	\$11.09	\$11.14	\$11.12	\$402.42	\$402.05	\$412.55	\$418.86	\$417.00
Newspapers	271	10.73	10.76	11.16	11.20	-	354.09	355.08	364.93	370.72	-
Periodicals	272	11.37	11.36	11.99	11.98	-	428.65	420.32	450.82	450.45	-
Books	273	9.41	9.51	9.80	9.91	-	369.81	361.38	371.42	384.51	-
Book publishing	2731	9.00	9.08	9.56	9.65	-	350.10	341.41	367.10	382.14	-
Book printing	2732	10.04	10.15	10.18	10.33	-	401.60	391.79	377.68	388.41	-
Miscellaneous publishing	274	10.14	10.19	10.07	10.06	-	365.04	368.88	364.53	370.21	-
Commercial printing	275	11.03	10.98	11.33	11.41	-	425.76	426.02	437.34	442.71	-
Commercial printing, letterpress	2751	10.73	10.58	10.98	11.05	-	414.18	407.33	419.44	426.53	-
Commercial printing, lithographic	2752	11.14	11.12	11.46	11.54	-	427.78	431.46	442.36	447.75	-
Manifold business forms	276	11.23	11.28	11.49	11.46	-	458.18	472.63	465.35	465.28	-
Blankbooks and bookbinding	278	8.67	8.68	8.86	8.82	-	332.06	332.44	322.50	328.10	-
Printing trade services	279	13.44	13.34	13.71	13.61	-	510.72	509.59	530.58	529.43	-
Chemicals and allied products	28	12.98	12.98	13.49	13.42	13.46	546.46	551.65	573.33	566.32	573.40
Industrial inorganic chemicals	281	14.18	14.13	14.70	14.75	-	605.49	609.00	642.39	634.25	-
Industrial inorganic chemicals, nec	2819	14.24	14.21	14.83	14.89	-	605.20	606.77	649.55	637.29	-
Plastics materials and synthetics	282	13.32	13.30	14.12	13.88	-	572.76	574.56	609.98	587.12	-
Plastics materials and resins	2821	14.24	14.17	14.82	14.72	-	618.02	620.65	659.49	638.85	-
Organic fibers, noncellulosic	2824	12.61	12.61	13.65	13.26	-	542.23	548.54	571.94	546.31	-
Drugs	283	12.44	12.38	12.71	12.82	-	512.53	521.20	526.19	528.18	-
Pharmaceutical preparations	2834	12.39	12.30	12.68	12.83	-	505.51	514.14	524.95	527.31	-
Soap, cleaners, and toilet goods	284	11.13	11.18	11.54	11.65	-	439.64	449.44	459.29	474.16	-
Soap and other detergents	2841	14.88	15.02	15.14	15.46	-	619.01	644.36	619.23	649.32	-
Polishing, sanitation, and finishing preparations	2842,3	10.22	10.28	10.28	10.29	-	411.87	424.56	415.31	429.09	-
Toilet preparations	2844	9.39	9.34	9.95	9.95	-	356.82	356.79	385.07	392.03	-
Paints and allied products	285	11.64	11.63	11.92	12.01	-	487.72	493.11	489.91	510.43	-
Industrial organic chemicals	286	15.57	15.62	15.98	15.70	-	691.31	693.53	715.90	689.23	-
Cyclic crudes and intermediates	2865	15.41	15.61	16.02	15.95	-	681.12	699.33	712.89	697.02	-
Gum, wood, and industrial organic chemicals, nec	2861,9	15.61	15.62	15.97	15.63	-	693.08	691.97	717.05	686.16	-
Agricultural chemicals	287	12.43	12.44	13.29	13.28	-	535.73	536.16	599.38	589.63	-
Miscellaneous chemical products	289	11.84	11.90	12.22	12.26	-	497.28	497.42	519.35	514.92	-
Petroleum and coal products	29	15.34	15.23	16.39	16.17	16.39	673.43	679.26	726.08	709.86	737.55
Petroleum refining	291	16.61	16.43	17.79	17.60	-	732.50	737.71	798.77	767.36	-
Paving and roofing materials	295	12.08	12.17	12.34	12.71	-	533.94	544.00	542.96	585.93	-
Rubber and misc. plastics products	30	9.40	9.41	9.60	9.70	9.67	390.10	391.46	384.00	401.58	399.37
Tires and inner tubes	301	15.01	14.93	15.07	15.31	-	690.46	658.41	622.39	667.52	-
Rubber and plastics footwear	302	6.60	6.58	6.64	6.59	-	266.64	268.46	257.63	270.19	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	9.38	9.52	9.81	9.87	-	401.46	409.36	408.10	426.38	-
Fabricated rubber products, nec	306	8.81	8.87	9.17	9.27	-	356.81	361.01	364.05	387.49	-
Miscellaneous plastics products	307	8.72	8.76	8.96	9.05	-	357.52	361.79	357.50	371.05	-
Leather and leather products	31	6.58	6.59	6.93	6.90	6.88	247.41	255.03	251.56	258.75	261.44
Leather tanning and finishing	311	8.68	8.79	9.00	8.96	-	364.56	374.45	366.30	370.94	-
Footwear, except rubber	314	6.27	6.26	6.63	6.60	-	232.62	241.64	237.35	242.88	-
Men's footwear, except athletic	3143	6.69	6.70	7.13	7.09	-	252.21	257.95	253.12	259.49	-
Women's footwear, except athletic	3144	5.92	5.91	6.14	6.13	-	213.12	225.17	219.81	226.20	-
Luggage	316	6.65	6.68	7.05	7.02	-	262.68	265.86	262.97	277.99	-
Handbags and personal leather goods	317	5.93	6.00	6.12	6.20	-	212.29	215.40	211.75	226.92	-
Transportation and public utilities		12.49	12.48	12.89	12.82	12.81	490.86	494.21	504.00	501.26	506.00
Railroad transportation:											
Class I railroads ³	4011	15.29	15.35	16.22	16.33	-	692.64	690.75	744.50	751.18	-
Local and interurban passenger transit	41	8.69	8.83	8.99	8.93	-	298.07	306.40	295.77	303.62	-
Local and suburban transportation	411	9.50	9.56	9.95	9.89	-	361.95	369.97	385.07	376.81	-
Intercity highway transportation	413	11.39	11.52	11.18	11.18	-	453.32	455.04	427.08	430.43	-
Trucking and warehousing	42	11.33	11.29	11.71	11.72	-	433.94	436.92	446.15	452.39	-
Trucking and trucking terminals	421,3	11.48	11.44	11.88	11.88	-	439.68	442.73	451.44	458.57	-
Public warehousing	422	9.29	9.24	9.52	9.50	-	361.38	359.44	372.23	369.55	-
Pipe lines, except natural gas	46	15.94	15.91	17.16	16.92	-	653.54	668.22	706.99	685.26	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a	May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a
Transportation and public utilities—Continued											
Communication	48	39.2	39.8	39.4	39.1	-	-	-	-	-	-
Telephone communication	481	40.8	41.6	40.9	40.7	-	-	-	-	-	-
Radio and television broadcasting	483	34.8	35.1	35.1	34.5	-	-	-	-	-	-
Electric, gas, and sanitary services	49	41.8	41.9	41.9	41.8	-	-	-	-	-	-
Electric services	491	42.1	42.2	42.0	41.8	-	-	-	-	-	-
Gas production and distribution	492	41.2	41.4	41.8	41.6	-	-	-	-	-	-
Combination utility services	493	42.0	42.4	42.2	41.9	-	-	-	-	-	-
Sanitary services	495	41.9	41.8	41.6	42.4	-	-	-	-	-	-
Wholesale trade		37.9	38.1	38.1	38.0	38.2	-	-	-	-	-
Durable goods	50	38.4	38.6	38.5	38.5	-	-	-	-	-	-
Motor vehicles and automotive equipment	501	37.2	37.6	37.9	38.0	-	-	-	-	-	-
Furniture and home furnishings	502	37.1	37.5	36.9	37.0	-	-	-	-	-	-
Lumber and construction materials	503	39.4	39.6	39.7	39.9	-	-	-	-	-	-
Sporting goods, toys, and hobby goods	504	34.9	35.0	35.7	35.2	-	-	-	-	-	-
Metals and minerals, except petroleum	505	40.3	40.2	39.6	40.0	-	-	-	-	-	-
Electrical goods	506	37.9	38.2	38.5	38.2	-	-	-	-	-	-
Hardware, plumbing, and heating equipment	507	38.4	38.9	38.6	38.5	-	-	-	-	-	-
Machinery, equipment, and supplies	508	39.0	39.1	38.9	38.8	-	-	-	-	-	-
Miscellaneous durable goods	509	38.3	38.3	37.4	37.6	-	-	-	-	-	-
Nondurable goods	51	37.2	37.4	37.5	37.4	-	-	-	-	-	-
Paper and paper products	511	36.6	37.2	37.6	37.8	-	-	-	-	-	-
Drugs, proprietaries, and sundries	512	37.1	37.1	37.2	37.2	-	-	-	-	-	-
Apparel, piece goods, and notions	513	35.7	36.2	36.2	36.0	-	-	-	-	-	-
Groceries and related products	514	37.6	37.8	37.9	37.9	-	-	-	-	-	-
Chemicals and allied products	516	39.7	40.3	39.5	39.7	-	-	-	-	-	-
Petroleum and petroleum products	517	38.1	38.2	38.6	37.9	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	36.1	36.4	36.4	36.2	-	-	-	-	-	-
Miscellaneous nondurable goods	519	37.0	36.8	37.0	37.0	-	-	-	-	-	-
Retail trade		28.8	29.2	29.0	28.9	29.3	-	-	-	-	-
Building materials and garden supplies	52	36.2	36.9	36.0	36.1	-	-	-	-	-	-
Lumber and other building materials	521	38.0	38.6	37.7	37.9	-	-	-	-	-	-
Hardware stores	525	32.1	33.2	32.1	32.0	-	-	-	-	-	-
General merchandise stores	53	27.3	27.9	27.9	28.0	-	-	-	-	-	-
Department stores	531	27.2	27.8	27.7	27.9	-	-	-	-	-	-
Variety stores	533	27.7	27.6	29.2	28.4	-	-	-	-	-	-
Misc. general merchandise stores	539	28.4	29.2	28.6	28.6	-	-	-	-	-	-
Food stores	54	29.9	30.5	30.1	29.7	-	-	-	-	-	-
Grocery stores	541	30.0	30.7	30.2	29.9	-	-	-	-	-	-
Retail bakeries	546	29.4	29.8	30.1	29.0	-	-	-	-	-	-
Automotive dealers and service stations	55	35.8	36.4	36.3	36.1	-	-	-	-	-	-
New and used car dealers	551,2	36.7	37.1	37.1	37.0	-	-	-	-	-	-
Auto and home supply stores	553	37.9	38.7	38.4	38.0	-	-	-	-	-	-
Gasoline service stations	554	33.3	34.1	33.8	33.6	-	-	-	-	-	-
Apparel and accessory stores	56	26.6	27.2	27.4	26.9	-	-	-	-	-	-
Men's and boys' clothing and furnishings	561	28.2	29.1	28.6	28.0	-	-	-	-	-	-
Women's ready-to-wear stores	562	24.7	25.0	24.4	24.1	-	-	-	-	-	-
Family clothing stores	565	26.4	27.1	27.9	27.2	-	-	-	-	-	-
Shoe stores	566	28.6	29.1	31.0	30.1	-	-	-	-	-	-
Furniture and home furnishings stores	57	32.6	33.1	32.7	32.6	-	-	-	-	-	-
Furniture and home furnishings stores	571	33.3	33.6	33.4	33.3	-	-	-	-	-	-
Household appliance stores	572	33.1	33.9	33.2	33.2	-	-	-	-	-	-
Radio, television, and music stores	573	31.3	31.9	31.3	31.2	-	-	-	-	-	-
Eating and drinking places ⁴	58	25.4	25.7	25.4	25.3	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a	May 1989	June 1989	Apr. 1990	May 1990 ^a	June 1990 ^a
Transportation and public utilities—Continued											
Communication	48	\$13.04	\$13.04	\$13.26	\$13.28	-	\$511.17	\$518.99	\$522.44	\$519.25	-
Telephone communication	481	13.69	13.70	13.90	13.91	-	558.55	569.92	568.51	566.14	-
Radio and television broadcasting	483	12.12	12.03	12.41	12.52	-	421.78	422.25	435.59	431.94	-
Electric, gas, and sanitary services	49	14.65	14.59	15.19	15.05	-	612.37	611.32	636.46	629.09	-
Electric services	491	14.98	14.88	15.89	15.75	-	630.66	627.94	667.38	658.35	-
Gas production and distribution	492	13.52	13.43	14.25	14.10	-	557.02	556.00	595.65	586.56	-
Combination utility services	493	17.10	17.13	16.99	16.90	-	718.20	726.31	716.98	708.11	-
Sanitary services	495	11.16	11.17	11.44	11.35	-	467.60	466.91	475.90	481.24	-
Wholesale trade		10.28	10.31	10.77	10.72	\$10.74	389.61	392.81	410.34	407.36	\$410.27
Durable goods	50	10.54	10.54	11.09	11.03	-	404.74	406.84	426.97	424.66	-
Motor vehicles and automotive equipment	501	9.53	9.61	10.18	10.10	-	354.52	361.34	385.82	383.80	-
Furniture and home furnishings	502	9.66	9.74	10.14	10.06	-	358.39	365.25	374.17	372.22	-
Lumber and construction materials	503	9.99	10.02	10.44	10.35	-	393.61	396.79	414.47	412.97	-
Sporting goods, toys, and hobby goods	504	9.65	9.68	10.69	10.77	-	336.79	338.80	381.63	379.10	-
Metals and minerals, except petroleum	505	10.88	10.95	11.26	11.16	-	438.46	440.19	445.90	446.40	-
Electrical goods	506	10.93	11.02	11.32	11.15	-	414.25	420.96	435.82	425.93	-
Hardware, plumbing, and heating equipment	507	9.89	9.85	10.50	10.47	-	379.78	383.17	405.30	403.10	-
Machinery, equipment, and supplies	508	11.33	11.28	11.90	11.87	-	441.87	441.05	462.91	460.56	-
Miscellaneous durable goods	509	8.29	8.36	8.73	8.74	-	317.51	320.19	326.50	328.62	-
Nondurable goods	51	9.91	9.95	10.30	10.26	-	368.65	372.13	386.25	383.72	-
Paper and paper products	511	10.80	10.84	11.40	11.25	-	395.28	403.25	428.64	425.25	-
Drugs, proprietaries, and sundries	512	11.20	11.32	11.80	11.68	-	415.52	419.97	438.96	434.50	-
Apparel, piece goods, and notions	513	9.92	9.86	10.30	10.26	-	354.14	356.93	372.86	369.36	-
Groceries and related products	514	10.06	10.10	10.41	10.40	-	378.26	381.78	394.54	394.16	-
Chemicals and allied products	516	12.39	12.36	12.57	12.43	-	491.88	498.11	496.52	493.47	-
Petroleum and petroleum products	517	9.87	9.87	10.20	10.12	-	376.05	377.03	393.72	383.55	-
Beer, wine, and distilled beverages	518	11.51	11.66	11.95	11.96	-	415.51	424.42	434.98	432.95	-
Miscellaneous nondurable goods	519	8.15	8.14	8.52	8.52	-	301.55	299.55	315.24	315.24	-
Retail trade		6.49	6.49	6.78	6.78	6.77	186.91	189.51	196.62	195.94	198.36
Building materials and garden supplies	52	7.61	7.62	7.94	7.91	-	275.48	281.18	285.84	285.55	-
Lumber and other building materials	521	8.01	7.99	8.32	8.29	-	304.38	308.41	313.66	314.19	-
Hardware stores	525	6.36	6.33	6.70	6.71	-	204.16	210.16	215.07	214.72	-
General merchandise stores	53	6.73	6.70	7.02	7.06	-	183.73	186.93	195.86	197.68	-
Department stores	531	7.00	6.97	7.28	7.32	-	190.40	193.77	201.66	204.23	-
Variety stores	533	5.28	5.24	5.56	5.56	-	146.26	144.62	162.35	157.90	-
Misc. general merchandise stores	539	5.65	5.56	5.94	5.94	-	160.46	162.35	169.88	169.88	-
Food stores	54	7.13	7.07	7.36	7.37	-	213.19	215.64	221.54	218.89	-
Grocery stores	541	7.24	7.17	7.45	7.46	-	217.20	220.12	224.99	223.05	-
Retail bakeries	546	6.04	6.09	6.37	6.38	-	177.58	181.48	191.74	185.02	-
Automotive dealers and service stations	55	8.52	8.55	8.95	8.89	-	305.02	311.22	324.89	320.93	-
New and used car dealers	551,2	10.34	10.47	10.95	10.84	-	379.48	388.44	406.25	401.08	-
Auto and home supply stores	553	7.48	7.42	7.77	7.77	-	283.49	287.15	298.37	295.26	-
Gasoline service stations	554	5.94	5.95	6.19	6.21	-	197.80	202.90	209.22	208.66	-
Apparel and accessory stores	56	5.96	5.97	6.23	6.25	-	158.54	162.38	170.70	168.13	-
Men's and boys' clothing and furnishings	561	7.44	7.44	7.62	7.72	-	209.81	216.50	217.93	216.16	-
Women's ready-to-wear stores	562	5.61	5.57	5.96	5.94	-	138.57	139.25	145.42	143.15	-
Family clothing stores	565	5.84	5.88	6.16	6.17	-	154.18	159.35	171.86	167.82	-
Shoe stores	566	6.02	6.07	6.14	6.17	-	172.17	176.64	190.34	185.72	-
Furniture and home furnishings stores	57	8.16	8.19	8.42	8.40	-	266.02	271.09	275.33	273.84	-
Furniture and home furnishings stores	571	8.15	8.14	8.44	8.41	-	271.40	273.50	281.90	280.05	-
Household appliance stores	572	8.26	8.39	8.53	8.62	-	273.41	284.42	283.20	286.18	-
Radio, television, and music stores	573	8.16	8.22	8.35	8.32	-	255.41	262.22	261.36	259.58	-
Eating and drinking places ¹	58	4.71	4.73	4.93	4.96	-	119.63	121.56	125.22	125.49	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P	May 1989	June 1989	Apr. 1990	May 1990 ^P	June 1990 ^P
Retail trade—Continued											
Miscellaneous retail	59	29.9	29.9	29.7	29.9	-	-	-	-	-	-
Drug stores and proprietary stores	591	26.9	27.6	27.2	27.0	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	28.1	28.7	28.3	28.1	-	-	-	-	-	-
Nonstore retailers	596	32.8	32.9	32.5	33.2	-	-	-	-	-	-
Fuel and ice dealers	598	37.5	37.4	37.6	37.1	-	-	-	-	-	-
Retail stores, nec	599	33.5	31.6	32.1	33.3	-	-	-	-	-	-
Finance, insurance, and real estate⁵		35.6	35.8	36.2	35.6	35.7	-	-	-	-	-
Banking	60	35.4	35.7	36.2	35.2	-	-	-	-	-	-
Commercial and stock savings banks	602	35.4	35.7	36.2	35.1	-	-	-	-	-	-
Credit agencies other than banks	61	36.1	36.4	37.1	36.2	-	-	-	-	-	-
Savings and loan associations	612	35.8	36.1	36.3	35.6	-	-	-	-	-	-
Personal credit institutions	614	36.0	36.3	36.6	36.1	-	-	-	-	-	-
Insurance carriers	63	37.1	37.2	37.5	37.1	-	-	-	-	-	-
Life insurance	631	37.0	37.0	37.4	37.0	-	-	-	-	-	-
Medical service and health insurance	632	37.7	37.9	37.8	37.8	-	-	-	-	-	-
Fire, marine, and casualty insurance	633	36.9	37.0	37.3	37.0	-	-	-	-	-	-
Services		32.4	32.7	32.7	32.4	32.7	-	-	-	-	-
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	31.0	31.2	31.1	30.6	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services	721	34.5	34.5	34.3	34.5	-	-	-	-	-	-
Beauty shops ⁴	723	30.0	30.0	29.8	29.4	-	-	-	-	-	-
Business services	73	33.6	33.8	33.5	33.5	-	-	-	-	-	-
Advertising	731	36.7	36.8	37.4	36.8	-	-	-	-	-	-
Services to buildings	734	29.7	29.9	29.4	29.6	-	-	-	-	-	-
Computer and data processing services	737	37.6	37.7	38.3	37.9	-	-	-	-	-	-
Auto repair, services, and garages	75	36.2	36.9	36.6	36.8	-	-	-	-	-	-
Automotive repair shops	753	37.7	38.4	38.0	38.2	-	-	-	-	-	-
Miscellaneous repair services	76	37.9	38.1	37.2	37.7	-	-	-	-	-	-
Motion pictures	78	28.2	30.0	30.0	28.1	-	-	-	-	-	-
Motion picture production and services	781	35.4	37.6	36.2	34.3	-	-	-	-	-	-
Amusement and recreation services	79	27.5	28.9	28.5	27.6	-	-	-	-	-	-
Health services	80	32.2	32.4	32.6	32.4	-	-	-	-	-	-
Offices of physicians	801	31.2	31.4	31.9	31.5	-	-	-	-	-	-
Offices of dentists	802	28.6	28.7	28.8	28.4	-	-	-	-	-	-
Nursing and personal care facilities	805	31.5	31.7	32.2	31.5	-	-	-	-	-	-
Hospitals	806	33.8	34.0	34.1	34.0	-	-	-	-	-	-
Legal services	81	34.5	35.0	35.4	34.7	-	-	-	-	-	-
Miscellaneous services	89	37.7	37.8	39.2	37.7	-	-	-	-	-	-
Engineering and architectural services	891	38.8	39.1	39.0	39.0	-	-	-	-	-	-
Accounting, auditing, and bookkeeping	893	36.3	36.3	40.4	36.3	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1989	June 1989	Apr. 1990	May 1990 ^p	June 1990 ^p	May 1989	June 1989	Apr. 1990	May 1990 ^p	June 1990 ^p
Retail trade—Continued											
Miscellaneous retail	59	\$6.76	\$6.76	\$7.06	\$7.05	-	\$202.12	\$202.12	\$209.68	\$210.80	-
Drug stores and proprietary stores	591	6.41	6.39	6.67	6.69	-	172.43	176.36	181.42	180.63	-
Miscellaneous shopping goods stores	594	6.37	6.35	6.65	6.68	-	179.00	182.25	188.20	187.71	-
Nonstore retailers	596	7.77	7.76	7.92	7.92	-	254.86	255.30	257.40	262.94	-
Fuel and ice dealers	598	9.29	9.24	9.86	9.75	-	348.38	345.58	370.74	361.73	-
Retail stores, nec	599	6.82	6.95	7.22	7.14	-	228.47	219.62	231.76	237.76	-
Finance, insurance, and real estate⁵		9.48	9.48	9.99	9.92	\$9.88	337.49	339.38	361.64	353.15	\$352.72
Banking	60	8.23	8.21	8.58	8.55	-	291.34	293.10	310.60	300.96	-
Commercial and stock savings banks	602	7.84	7.80	8.10	8.08	-	277.54	278.46	293.22	283.61	-
Credit agencies other than banks	61	8.55	8.61	9.13	9.06	-	308.66	313.40	338.72	327.97	-
Savings and loan associations	612	8.01	8.05	8.49	8.43	-	286.76	290.61	308.19	300.11	-
Personal credit institutions	614	8.12	8.14	8.47	8.36	-	292.32	295.48	310.00	301.80	-
Insurance carriers	63	10.58	10.67	11.13	11.06	-	392.52	396.92	417.38	410.33	-
Life insurance	631	9.95	9.99	10.32	10.31	-	368.15	369.63	385.97	381.47	-
Medical service and health insurance	632	10.25	10.25	10.75	10.60	-	386.43	388.48	406.35	400.68	-
Fire, marine, and casualty insurance	633	11.31	11.39	11.93	11.91	-	417.34	421.43	444.99	440.67	-
Services		9.30	9.26	9.81	9.77	9.73	301.32	302.80	320.79	316.55	318.17
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	6.65	6.58	6.93	6.95	-	206.15	205.30	215.52	212.67	-
Personal services:											
Laundry, cleaning, and garment services	721	6.55	6.57	6.80	6.79	-	225.98	226.67	233.24	234.26	-
Beauty shops ⁴	723	6.88	6.88	7.13	7.18	-	206.40	206.40	212.47	211.09	-
Business services	73	9.53	9.53	10.09	10.00	-	320.21	322.11	338.02	335.00	-
Advertising	731	12.97	12.79	13.68	13.40	-	476.00	470.67	511.63	493.12	-
Services to buildings	734	7.13	7.19	7.28	7.26	-	211.76	214.98	214.03	214.90	-
Computer and data processing services	737	13.93	13.97	14.87	14.81	-	523.77	526.67	569.52	561.30	-
Auto repair, services, and garages	75	8.37	8.38	8.67	8.68	-	302.99	309.22	317.32	319.42	-
Automotive repair shops	753	9.22	9.25	9.57	9.58	-	347.59	355.20	363.66	365.96	-
Miscellaneous repair services	76	9.88	9.86	10.22	10.17	-	374.45	375.67	380.18	383.41	-
Motion pictures	78	12.52	11.88	12.62	12.64	-	353.06	356.40	378.60	355.18	-
Motion picture production and services	781	15.99	15.70	16.16	15.91	-	566.05	590.32	584.99	545.71	-
Amusement and recreation services	79	7.86	7.25	8.17	8.12	-	216.15	209.53	232.85	224.11	-
Health services	80	9.69	9.73	10.27	10.29	-	312.02	315.25	334.80	333.40	-
Offices of physicians	801	9.20	9.23	9.76	9.74	-	287.04	289.82	311.34	306.81	-
Offices of dentists	802	9.35	9.40	10.09	10.10	-	267.41	269.78	290.59	286.84	-
Nursing and personal care facilities	805	6.72	6.73	7.16	7.19	-	211.68	213.34	230.55	226.49	-
Hospitals	806	11.04	11.07	11.64	11.67	-	373.15	376.38	396.92	396.78	-
Legal services	81	13.21	13.39	14.01	13.83	-	455.75	468.65	495.95	479.90	-
Miscellaneous services	89	13.09	13.10	13.69	13.83	-	493.49	495.18	536.65	521.39	-
Engineering and architectural services	891	13.94	13.81	14.67	14.51	-	540.87	539.97	572.13	565.89	-
Accounting, auditing, and bookkeeping	893	11.27	11.41	11.94	12.31	-	409.10	414.18	482.38	446.85	-

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 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.

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

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

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

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

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

C-2a. Average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	Apr. 1989	May 1989	Apr. 1990	May 1990 ^p	Apr. 1989	May 1989	Apr. 1990	May 1990 ^p
Average hourly earnings, excluding lump-sum payments	\$14.74	\$14.69	\$15.49	\$15.61	\$14.09	\$14.09	\$14.53	\$14.66
Average hourly earnings, including lump-sum payments	15.17	15.14	16.22	16.34	14.51	14.53	15.03	15.13

^p = preliminary.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	May 1989	June 1989	Apr. 1990	May 1990 ^p	June 1990 ^p
Manufacturing	\$9.98	\$9.98	\$10.36	\$10.34	\$10.35
Durable goods	10.47	10.49	10.83	10.82	10.84
Lumber and wood products	8.42	8.47	8.74	8.72	(9)
Furniture and fixtures	7.92	7.96	8.20	8.20	(9)
Stone, clay, and glass products	10.10	10.12	10.52	10.46	(9)
Primary metal industries	11.56	11.60	12.22	12.06	(9)
Fabricated metal products	10.05	10.05	10.29	10.28	(9)
Machinery, except electrical	10.76	10.77	11.10	11.10	(9)
Electrical and electronic equipment	9.99	10.00	10.29	10.26	(9)
Transportation equipment	12.91	12.97	13.43	13.43	(9)
Instruments and related products	9.85	9.93	10.31	10.26	(9)
Miscellaneous manufacturing	8.01	7.99	8.39	8.34	(9)
Nondurable goods	9.28	9.28	9.72	9.67	\$9.66
Food and kindred products	8.90	8.89	9.15	9.12	(9)
Tobacco manufactures	15.67	16.00	16.73	16.80	(9)
Textile mill products	7.26	7.27	7.66	7.65	(9)
Apparel and other textile products	6.17	6.17	6.47	6.47	(9)
Paper and allied products	11.24	11.26	11.64	11.61	(9)
Printing and publishing	10.39	10.40	10.73	10.75	(9)
Chemicals and allied products	12.39	12.35	12.86	12.79	(9)
Petroleum and coal products	14.40	14.36	15.38	15.15	(9)
Rubber and misc. plastics products	8.99	8.98	9.28	9.27	(9)
Leather and leather products	6.43	6.41	6.81	6.76	(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 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	Average hourly earnings					Average weekly earnings				
	May 1989	June 1989	Apr. 1990	May 1990 ^p	June 1990 ^p	May 1989	June 1989	Apr. 1990	May 1990 ^p	June 1990 ^p
Total private:										
Current dollars	\$9.59	\$9.58	\$9.96	\$9.97	\$9.96	\$330.86	\$333.38	\$342.62	\$343.97	\$346.61
Constant (1977) dollars	4.77	4.75	4.77	4.76	(²)	164.53	165.37	163.93	164.26	(²)
Mining:										
Current dollars	13.13	13.03	13.53	13.46	\$13.43	551.46	555.08	583.14	582.82	\$588.23
Constant (1977) dollars	6.53	6.46	6.47	6.43	(²)	274.22	275.34	279.01	278.33	(²)
Construction:										
Current dollars	13.28	13.24	13.39	13.49	\$13.49	500.66	503.12	499.45	515.32	\$526.11
Constant (1977) dollars	6.60	6.57	6.41	6.44	(²)	248.96	249.56	233.97	246.09	(²)
Manufacturing:										
Current dollars	10.42	10.44	10.74	10.80	\$10.82	426.18	429.08	427.45	440.64	\$444.70
Constant (1977) dollars	5.18	5.18	5.14	5.16	(²)	211.92	212.84	204.52	210.43	(²)
Transportation and public utilities:										
Current dollars	12.49	12.48	12.89	12.82	\$12.81	490.86	494.21	504.00	501.26	\$506.00
Constant (1977) dollars	6.21	6.19	6.17	6.12	(²)	244.09	245.14	241.15	239.38	(²)
Wholesale trade:										
Current dollars	10.28	10.31	10.77	10.72	\$10.74	389.61	392.81	410.34	407.36	\$410.27
Constant (1977) dollars	5.11	5.11	5.15	5.12	(²)	193.74	194.85	196.33	194.54	(²)
Retail trade:										
Current dollars	6.49	6.49	6.78	6.78	\$6.77	186.91	189.51	196.62	195.94	\$198.36
Constant (1977) dollars	3.23	3.22	3.24	3.24	(²)	92.94	94.00	94.08	93.57	(²)
Finance, insurance, and real estate:										
Current dollars	9.48	9.48	9.99	9.92	\$9.88	337.49	339.38	361.64	353.15	\$352.72
Constant (1977) dollars	4.71	4.70	4.78	4.74	(²)	167.82	168.34	173.03	168.65	(²)
Services:										
Current dollars	9.30	9.26	9.81	9.77	\$9.73	301.32	302.80	320.79	316.55	\$318.17
Constant (1977) dollars	4.62	4.59	4.69	4.67	(²)	149.84	150.20	153.49	151.17	(²)

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

² Not available.
^p = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 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	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May ^p	June ^p
Total private	34.6	34.8	34.6	34.7	34.7	34.6	34.5	34.5	34.6	34.6	34.6	34.6	34.7
Mining	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Construction	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Manufacturing	41.0	41.0	41.0	41.0	40.8	40.7	40.6	40.7	40.7	40.8	40.6	41.0	41.0
<i>Overtime hours</i>	3.8	3.9	3.8	3.8	3.7	3.7	3.6	3.7	3.6	3.6	3.5	3.8	3.8
Durable goods	41.5	41.5	41.6	41.6	41.2	41.2	41.2	41.3	41.3	41.4	41.2	41.6	41.6
<i>Overtime hours</i>	3.9	4.0	3.9	3.9	3.8	3.7	3.6	3.7	3.6	3.7	3.5	4.0	3.9
Lumber and wood products	39.8	39.6	40.2	40.2	40.4	40.3	40.1	40.5	39.8	40.3	40.2	40.4	40.2
Furniture and fixtures	39.4	39.5	39.6	39.6	39.2	39.4	39.2	39.8	39.5	39.2	38.9	39.3	39.4
Stone, clay, and glass products	42.2	42.3	42.5	42.2	42.3	42.4	41.5	42.2	42.1	41.9	41.7	42.1	42.4
Primary metal industries	43.3	43.0	42.9	42.8	42.5	42.6	42.5	42.5	42.3	42.6	41.8	43.1	43.1
Blast furnaces and basic steel products ..	43.7	43.2	43.4	42.9	42.8	43.0	42.8	43.2	42.8	42.9	43.2	43.7	43.3
Fabricated metal products	41.5	41.5	41.5	41.6	41.5	41.4	41.2	41.1	41.3	41.7	41.3	41.8	41.6
Machinery, except electrical	42.5	42.4	42.2	42.3	42.0	42.1	42.0	42.1	42.2	42.0	41.7	42.2	42.2
Electrical and electronic equipment	40.7	40.6	40.9	41.1	40.9	40.8	40.5	40.8	41.1	41.1	40.8	40.8	40.8
Transportation equipment	42.5	42.6	42.7	42.8	41.2	40.9	41.9	41.4	41.5	42.0	42.2	42.6	42.9
Motor vehicles and equipment	42.7	42.6	43.0	43.4	42.9	42.3	42.2	40.8	41.2	42.2	41.5	43.5	44.2
Instruments and related products	41.3	41.4	41.1	41.0	41.1	41.0	40.9	41.0	41.0	41.1	41.3	41.2	41.1
Miscellaneous manufacturing	39.4	39.3	39.4	39.2	39.3	39.7	39.3	39.4	39.5	39.4	39.2	39.4	39.3
Nondurable goods	40.3	40.2	40.2	40.2	40.2	40.1	39.9	40.0	39.9	40.0	39.9	40.1	40.2
<i>Overtime hours</i>	3.6	3.8	3.6	3.7	3.7	3.6	3.6	3.6	3.5	3.5	3.5	3.6	3.7
Food and kindred products	40.7	41.0	40.8	41.0	40.8	40.8	40.6	40.5	40.5	40.6	40.6	40.8	40.8
Tobacco manufactures	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Textile mill products	41.4	41.2	41.0	40.6	40.7	40.5	40.2	40.5	40.2	40.1	40.1	40.5	40.8
Apparel and other textile products	37.1	37.0	37.0	37.0	36.9	36.8	36.3	36.7	36.6	36.2	36.4	36.6	36.6
Paper and allied products	43.3	43.2	43.5	43.2	43.4	43.4	43.1	43.3	43.0	43.2	43.3	43.4	43.5
Printing and publishing	37.8	37.6	37.7	37.9	37.8	37.9	37.6	37.8	37.8	37.9	37.6	37.9	37.9
Chemicals and allied products	42.5	42.5	42.4	42.5	42.4	42.3	42.7	42.7	42.3	42.5	42.5	42.4	42.6
Petroleum and coal products	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Rubber and misc. plastics products	41.5	41.4	41.5	41.5	41.4	41.2	40.8	40.9	41.1	41.3	40.9	41.5	41.2
Leather and leather products	37.9	37.7	38.1	38.1	37.7	37.5	37.2	37.4	38.0	37.8	37.3	37.3	37.3
Transportation and public utilities	39.4	39.4	39.0	39.3	39.3	39.1	39.3	39.1	39.3	39.3	39.3	39.2	39.3
Wholesale trade	38.0	38.1	38.0	38.1	38.1	38.1	38.0	38.0	38.1	38.1	38.2	38.1	38.1
Retail trade	28.9	29.2	28.8	28.8	29.0	28.8	28.7	28.8	28.9	28.9	29.0	29.0	29.0
Finance, insurance, and real estate	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Services	32.5	32.8	32.6	32.7	32.8	32.6	32.6	32.5	32.6	32.7	32.7	32.6	32.6

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 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

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

(1977 = 100)

Industry	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May ^p	June ^p
Total private	128.1	129.2	128.5	128.9	129.2	129.1	128.8	129.5	130.2	130.3	130.0	130.2	130.5
Goods-producing	102.5	103.0	103.3	102.8	102.4	102.5	101.1	102.2	102.9	102.3	100.9	101.7	101.9
Mining	81.2	80.3	84.4	85.3	85.5	86.2	85.3	87.1	87.8	87.7	88.5	89.4	89.8
Construction	139.3	142.7	143.5	143.1	143.8	145.8	139.5	149.5	150.6	146.7	139.3	141.2	143.0
Manufacturing	96.4	96.3	96.4	95.8	95.2	94.8	94.5	93.7	94.3	94.4	94.0	94.6	94.5
Durable goods	94.0	93.8	94.0	93.3	92.2	91.9	91.6	90.3	91.7	91.9	91.3	92.0	92.0
Lumber and wood products	103.4	102.6	103.6	103.0	104.2	103.9	103.2	105.1	102.5	103.9	103.3	103.3	102.0
Furniture and fixtures	112.6	113.2	111.9	111.6	109.9	110.2	109.1	110.5	109.7	108.9	108.1	108.9	109.4
Stone, clay, and glass products	89.8	90.0	90.2	88.8	89.6	90.0	87.7	89.6	89.4	88.4	87.0	87.5	88.1
Primary metal industries	68.5	67.9	67.6	66.7	65.9	65.6	65.6	64.8	64.9	65.2	64.1	65.9	65.9
Blast furnaces and basic steel products	52.6	52.0	53.0	51.9	51.1	50.8	51.1	51.3	50.6	50.0	50.8	51.4	50.4
Fabricated metal products	90.8	90.7	90.4	90.0	89.7	89.1	88.5	86.7	88.0	88.9	88.5	89.3	88.6
Machinery, except electrical	93.8	94.0	93.2	93.1	92.0	92.7	92.4	92.7	92.9	91.9	91.0	92.1	91.9
Electrical and electronic equipment	97.8	97.6	98.0	98.0	97.1	96.6	95.0	95.7	96.4	96.9	95.8	95.7	95.5
Transportation equipment	99.5	98.6	100.5	98.5	94.3	92.7	95.0	85.7	93.5	95.0	95.2	96.1	97.2
Motor vehicles and equipment	88.1	85.7	90.1	87.0	84.7	82.3	82.4	67.0	80.3	82.3	80.4	84.1	86.2
Instruments and related products	116.1	116.9	115.8	115.8	116.1	115.2	114.4	115.2	115.0	114.7	115.5	115.5	116.6
Miscellaneous manufacturing	86.2	85.7	86.8	85.8	86.0	86.2	86.3	87.7	87.6	86.8	85.1	85.9	85.4
Nondurable goods	99.9	100.1	99.9	99.7	99.6	99.2	98.7	98.8	98.3	98.0	98.1	98.4	98.3
Food and kindred products	104.3	106.4	105.2	106.2	105.9	105.5	105.0	105.1	104.7	104.7	105.6	105.7	104.7
Tobacco manufactures	69.0	70.5	68.7	69.0	67.6	66.9	66.2	69.0	68.9	67.1	66.5	66.9	63.4
Textile mill products	81.5	81.3	80.4	79.1	79.5	78.8	78.1	78.3	77.2	76.6	76.7	76.9	77.7
Apparel and other textile products	85.2	84.9	84.9	84.5	84.0	83.6	82.4	82.5	81.5	79.7	80.2	80.2	79.8
Paper and allied products	102.3	102.7	103.4	101.9	102.8	102.8	102.1	102.5	102.0	102.1	102.9	103.0	103.2
Printing and publishing	138.3	137.7	138.3	138.7	138.3	139.3	138.8	140.0	140.3	140.7	139.3	140.4	141.0
Chemicals and allied products	101.8	101.5	101.8	101.5	101.8	101.5	102.8	102.6	101.5	101.5	101.5	101.3	101.4
Petroleum and coal products	84.3	83.2	83.4	84.1	85.6	85.3	85.6	83.9	85.5	86.4	84.9	85.7	85.7
Rubber and misc. plastics products	118.9	118.8	119.3	118.4	118.1	116.8	115.3	114.5	114.2	115.1	114.7	116.4	116.2
Leather and leather products	55.5	54.7	54.8	54.8	53.8	53.0	52.1	52.4	53.3	53.0	51.8	51.3	50.4
Service-producing	142.2	143.7	142.4	143.3	144.0	143.9	144.1	144.6	145.3	145.8	146.1	145.9	146.3
Transportation and public utilities	117.3	117.7	113.7	116.8	117.4	117.3	119.8	119.4	120.3	120.6	120.5	120.7	121.4
Wholesale trade	126.7	127.2	127.3	127.6	128.0	128.3	128.1	128.7	128.9	129.0	129.2	129.0	129.2
Retail trade	127.4	128.9	127.5	127.5	128.4	128.3	127.6	128.6	128.8	128.7	129.4	129.4	129.4
Finance, insurance, and real estate	142.7	145.0	143.3	143.8	145.0	143.8	144.1	144.3	145.2	145.8	146.7	145.4	145.6
Services	169.0	170.8	170.4	171.4	172.2	172.0	172.4	172.7	174.0	175.1	175.0	175.0	175.8

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 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 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	1989							1990					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May ^p	June ^p
Average hourly earnings													
Total private (in current dollars)	\$9.62	\$9.69	\$9.69	\$9.74	\$9.78	\$9.78	\$9.83	\$9.83	\$9.88	\$9.92	\$9.95	\$9.98	\$10.01
Mining	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Construction	\$13.32	\$13.42	\$13.37	\$13.39	\$13.44	\$13.52	\$13.60	\$13.34	\$13.43	\$13.47	\$13.40	\$13.53	\$13.59
Manufacturing	10.45	10.48	10.52	10.55	10.55	10.57	10.61	10.55	10.65	10.71	10.73	10.81	10.83
Excluding overtime²	9.99	10.01	10.05	10.08	10.08	10.11	10.15	10.10	10.21	10.26	10.34	10.33	10.36
Transportation and public utilities	12.54	12.61	12.57	12.67	12.68	12.61	12.71	12.79	12.82	12.86	12.89	12.87	12.87
Wholesale trade	10.33	10.44	10.39	10.47	10.54	10.54	10.59	10.57	10.62	10.65	10.76	10.72	10.77
Retail trade	6.52	6.54	6.57	6.58	6.61	6.61	6.65	6.69	6.71	6.75	6.76	6.79	6.80
Finance, insurance, and real estate	9.53	9.68	9.57	9.66	9.77	9.67	9.79	9.75	9.78	9.82	9.91	9.90	9.95
Services	9.34	9.46	9.43	9.49	9.58	9.54	9.62	9.62	9.65	9.70	9.78	9.79	9.83
Total private (in constant dollars) ⁴	4.77	4.79	4.80	4.81	4.81	4.79	4.80	4.74	4.74	4.75	4.76	4.77	(^q)
Average weekly earnings													
Total private:													
In current dollars	332.85	337.21	335.27	337.98	339.37	338.39	339.14	339.14	341.85	343.23	344.27	345.31	347.35
In constant (1977) dollars ⁴	165.10	166.85	165.98	166.74	166.85	165.80	165.51	163.68	164.11	164.22	164.57	164.90	(^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.

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 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Alabama	41.2	40.4	41.0	\$9.08	\$9.38	\$9.38	\$374.10	\$378.95	\$384.58
Birmingham	40.5	40.1	41.4	9.47	9.54	9.49	383.54	382.55	392.89
Mobile	41.6	41.1	42.2	10.77	11.28	11.04	448.03	463.61	465.89
Alaska	43.9	47.0	44.5	12.45	12.86	13.84	546.56	604.42	615.88
Arizona	40.8	40.3	41.0	9.91	10.09	10.00	404.33	406.63	410.00
Arkansas	40.8	39.5	40.4	8.20	8.49	8.53	334.56	335.36	344.61
Fayetteville-Springdale	42.3	38.9	41.5	7.26	7.62	7.63	307.10	296.42	316.65
Fort Smith	38.8	38.1	37.6	8.66	8.84	8.69	336.01	336.80	326.74
Little Rock-North Little Rock	40.8	40.3	41.2	8.80	9.03	9.10	359.04	363.91	374.92
Pine Bluff	43.2	42.3	44.9	10.33	10.98	10.92	446.26	464.45	490.31
California	40.5	39.6	40.5	11.13	11.35	11.43	450.77	449.46	462.92
Anaheim-Santa Ana	41.6	40.2	41.2	11.30	11.47	11.56	470.08	461.09	476.27
Bakersfield	39.9	39.9	39.7	12.12	12.21	12.27	483.59	487.18	487.12
Fresno	38.8	39.3	39.8	9.33	9.45	9.57	362.00	371.39	380.89
Los Angeles-Long Beach	40.9	39.4	40.6	10.55	10.77	10.83	431.50	424.34	439.70
Modesto	40.2	39.1	39.5	10.53	10.37	10.80	423.31	405.47	426.60
Oakland	41.0	40.2	40.7	13.39	13.44	13.54	548.99	540.29	551.08
Oxnard-Ventura	40.5	39.8	40.9	10.51	10.93	11.04	425.66	435.01	451.54
Riverside-San Bernardino	40.3	39.1	40.1	9.89	10.40	10.47	398.57	406.64	419.85
Sacramento	39.9	39.8	40.5	11.40	11.70	11.79	454.86	465.66	477.50
San Diego	41.3	39.7	40.5	11.18	11.44	11.52	461.73	454.17	466.56
San Francisco	37.9	40.3	40.1	13.09	12.91	13.00	496.11	520.27	521.30
San Jose	39.9	40.3	40.2	13.19	13.45	13.49	526.28	542.04	542.30
Santa Barbara-Santa Maria-Lompoc	39.6	40.3	40.4	11.34	11.81	11.89	449.06	475.94	480.36
Santa Rosa-Petaluma	37.1	38.1	37.8	10.60	11.30	11.27	393.26	430.53	426.01
Stockton	41.0	40.2	41.0	10.97	10.88	11.01	449.77	437.38	451.41
Vallejo-Fairfield-Napa	39.3	39.1	37.7	13.07	13.23	13.11	513.65	517.29	494.25
Colorado	39.8	41.1	41.5	10.51	10.73	10.68	418.30	441.00	443.22
Denver	40.3	40.6	41.3	11.82	12.21	12.19	476.35	495.73	503.45
Connecticut	42.0	41.3	42.6	11.16	11.37	11.45	468.72	469.58	487.77
Bridgeport-Milford	42.3	39.6	41.6	11.52	12.14	12.12	487.30	480.74	504.19
Hartford	42.5	41.4	41.3	11.73	12.34	12.24	498.53	510.88	505.51
New Britain	41.8	39.7	41.4	11.73	12.09	12.00	490.31	479.97	496.80
New Haven-Meriden	40.5	39.4	39.8	10.72	10.80	10.85	434.16	425.52	431.83
Stamford	43.2	40.5	40.9	11.91	11.81	12.19	514.51	478.31	498.57
Waterbury	42.3	40.2	41.7	9.94	10.23	10.36	420.46	411.25	432.01
Delaware	41.2	40.5	42.4	12.17	13.34	12.69	501.40	540.27	538.06
Wilmington	42.6	41.7	43.6	14.94	15.81	15.28	636.44	659.28	666.21
District of Columbia:									
Washington MSA	39.3	38.2	38.8	11.76	12.48	12.46	462.17	476.74	483.45
Florida	40.5	40.0	40.7	8.61	8.91	8.91	348.71	356.40	362.64
Fort Lauderdale-Hollywood-Pompano Beach	40.8	39.6	41.1	8.51	8.99	8.89	347.21	356.00	365.38
Jacksonville	40.1	39.0	39.8	9.13	9.50	9.46	366.11	370.50	376.51
Miami-Hialeah	39.4	39.1	40.3	7.19	7.35	7.52	283.29	287.39	303.06
Orlando	41.3	40.7	41.5	9.64	10.17	10.25	398.13	413.92	425.38
Pensacola	44.4	45.4	43.8	11.17	11.58	11.48	495.95	525.73	502.82
Tampa-St. Petersburg-Clearwater	40.7	39.6	40.9	8.67	9.35	9.37	352.87	370.26	383.23
West Palm Beach-Boca Raton-DeLray Beach	40.4	39.2	39.6	9.36	9.51	9.57	378.14	372.79	378.97
Georgia	40.5	39.7	40.7	8.76	9.19	9.12	354.78	364.84	371.18
Atlanta	41.1	39.9	41.3	10.01	10.40	10.34	411.41	414.96	427.04
Savannah	43.3	47.4	47.3	11.55	11.24	11.12	500.12	532.78	525.98
Hawaii	39.3	39.0	39.8	10.38	10.88	10.86	407.93	424.32	432.23
Honolulu	39.3	39.1	40.9	10.44	11.13	11.02	410.29	435.18	450.72
Idaho	37.9	38.7	39.0	9.96	10.32	10.46	377.48	399.38	407.94

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	May 1989	Apr. 1990	May 1990 ^a	May 1989	Apr. 1990	May 1990 ^a	May 1989	Apr. 1990	May 1990 ^a
Illinois	41.7	40.9	41.2	\$11.18	\$11.38	\$11.45	\$466.21	\$465.44	\$471.74
Aurora-Elgin	41.4	41.2	41.2	10.56	10.69	10.83	437.18	440.43	446.20
Bloomington-Normal	40.4	40.5	41.0	11.62	12.26	12.85	469.45	496.53	526.85
Champaign-Urbana-Rantoul	38.9	41.2	41.8	9.43	9.67	9.58	366.83	398.40	400.44
Chicago	41.9	40.5	41.7	10.85	11.10	11.15	454.62	449.55	464.96
Davenport-Rock Island-Moline	40.5	40.2	40.7	12.58	13.39	13.48	509.49	538.28	548.64
Decatur	43.7	45.7	44.7	14.35	14.68	14.67	627.10	670.88	655.75
Joliet	42.0	40.4	43.1	12.10	12.95	12.96	508.20	523.18	558.58
Kankakee	40.3	41.7	42.4	11.60	11.76	11.90	467.48	490.39	504.56
Lake County	40.9	40.6	40.7	11.27	11.55	11.70	460.94	468.93	476.19
Peoria	42.8	41.7	43.5	13.19	13.73	13.80	564.53	572.54	600.30
Rockford	43.2	40.7	43.6	12.03	12.47	12.83	519.70	507.53	559.39
Springfield	39.8	37.4	37.5	10.31	10.19	10.26	410.34	381.11	384.75
Indiana	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Iowa	40.4	39.4	40.8	10.76	11.12	11.15	434.70	438.13	454.92
Cedar Rapids	39.4	37.3	38.7	12.35	13.15	13.61	486.59	490.50	526.71
Des Moines	41.4	39.1	39.6	12.00	12.20	12.42	496.80	477.02	491.83
Dubuque	39.3	38.3	39.5	11.42	12.07	12.10	448.81	462.28	477.95
Sioux City	38.9	39.6	39.9	8.47	8.79	8.85	329.48	348.08	353.12
Kansas	40.9	39.8	40.6	10.62	10.84	10.87	434.36	431.43	441.32
Topeka	43.4	40.6	40.1	12.04	12.20	12.51	522.54	495.32	501.65
Wichita	41.4	40.5	40.9	11.43	11.96	11.90	473.20	484.38	486.71
Kentucky	40.4	39.4	40.8	10.39	10.69	10.80	419.76	421.19	440.64
Lexington-Fayette	40.7	40.6	41.7	10.55	11.03	11.12	429.39	447.82	463.70
Louisville	41.2	41.0	42.2	11.79	12.23	12.38	485.75	501.43	522.44
Louisiana	42.7	42.3	43.2	11.06	11.90	11.67	472.26	503.37	504.14
Baton Rouge	43.6	42.9	43.4	12.99	13.65	13.26	566.36	585.59	575.48
New Orleans	40.8	42.3	42.2	10.68	11.39	11.28	435.74	481.80	476.02
Shreveport	40.9	39.0	39.8	10.84	11.93	11.80	443.36	465.27	469.64
Maine	40.2	39.6	40.1	9.76	10.62	10.49	392.35	420.55	420.65
Lewiston-Auburn	39.1	36.3	38.6	8.17	9.16	9.16	319.45	332.51	353.58
Portland	40.0	38.7	38.8	10.28	10.50	10.49	411.20	406.35	407.01
Maryland	40.7	39.5	40.3	11.12	11.61	11.58	452.58	458.60	466.67
Baltimore MSA	40.8	39.7	40.4	11.44	12.10	12.02	466.75	480.37	485.61
Massachusetts	40.7	40.4	40.5	10.77	11.27	11.25	438.34	455.31	455.63
Boston	40.4	40.4	40.3	11.58	11.94	11.93	467.83	482.38	480.78
Springfield	41.8	40.7	41.0	10.28	10.78	10.74	429.70	438.75	440.34
Worcester	41.0	40.6	41.3	10.67	10.91	11.07	437.47	442.95	457.19
Michigan	42.9	40.5	42.3	13.45	13.63	13.82	577.00	552.01	584.59
Ann Arbor	43.9	42.2	44.8	14.76	14.50	14.94	647.96	611.90	669.31
Battle Creek	44.7	41.7	42.3	14.62	14.65	14.30	653.51	610.90	604.89
Detroit	43.9	41.0	43.4	14.42	14.74	14.76	633.04	604.34	640.58
Flint	42.6	41.1	43.1	16.86	16.93	17.37	718.24	695.82	748.65
Grand Rapids	41.1	39.6	41.2	11.50	11.65	11.66	472.65	461.34	480.39
Jackson	42.6	39.4	42.7	10.67	10.37	10.64	454.54	408.58	454.33
Kalamazoo	41.8	40.5	41.6	13.11	13.76	13.57	548.00	557.28	564.51
Lansing-East Lansing	41.5	37.3	38.2	14.53	14.91	14.87	602.99	556.14	568.03
Muskegon	40.4	39.5	41.2	12.22	12.18	12.52	493.69	481.11	515.82
Saginaw-Bay City-Midland	44.1	42.8	44.3	15.26	15.55	15.97	672.97	665.54	707.47
Minnesota	39.9	39.4	39.9	10.90	11.24	11.24	434.91	442.86	448.48
Duluth	40.5	40.1	42.3	11.41	11.83	11.74	462.11	474.38	496.60
Minneapolis-St. Paul	40.0	39.5	40.2	11.41	11.78	11.80	456.40	465.31	474.36
St. Cloud	40.1	39.9	40.0	10.04	9.94	9.93	402.60	396.61	397.20
Mississippi	39.7	38.1	39.9	8.01	8.30	8.43	318.00	316.23	336.36
Jackson	40.3	39.9	41.2	8.97	9.04	9.51	361.49	360.70	391.81

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	May 1989	Apr. 1990	May 1990 ^a	May 1989	Apr. 1990	May 1990 ^a	May 1989	Apr. 1990	May 1990 ^a
Missouri	40.5	39.8	40.9	\$10.48	\$10.73	\$10.83	\$424.44	\$427.05	\$442.95
Kansas City	41.7	39.8	40.9	11.73	11.59	11.67	489.14	461.28	477.30
St. Louis	41.7	41.3	42.3	12.37	12.81	13.00	515.83	529.05	549.90
Springfield	39.5	38.7	41.1	9.05	9.20	9.21	357.48	356.04	378.53
Montana	38.5	39.0	39.4	11.02	11.52	11.39	424.27	449.28	448.77
Nebraska	40.5	39.5	42.0	9.44	9.57	9.59	382.32	378.02	402.78
Lincoln	39.1	39.4	39.8	10.37	10.90	11.04	405.47	429.46	439.39
Omaha	41.7	40.0	42.9	10.31	10.12	9.92	429.93	404.80	425.57
Nevada	41.9	40.3	40.5	10.23	11.06	10.85	428.64	445.72	439.43
Las Vegas	43.5	42.4	41.4	12.42	13.01	12.62	540.27	551.62	522.47
New Hampshire	40.6	40.2	40.9	10.24	10.83	10.75	415.74	435.37	439.68
Manchester	40.4	41.5	41.0	10.35	10.46	10.69	418.14	434.09	438.29
Nashua	40.3	40.2	40.6	12.24	13.75	13.53	493.27	552.75	549.32
Portsmouth-Dover-Rochester	41.6	40.4	41.5	9.65	10.08	10.05	401.44	407.23	417.08
New Jersey	40.8	40.7	41.1	11.07	11.56	11.59	451.66	470.49	476.35
New Mexico	40.2	39.0	40.2	8.58	8.99	8.75	344.92	350.61	351.75
Albuquerque	40.0	39.4	40.3	8.63	9.08	9.09	345.20	357.75	366.33
New York	39.9	38.8	39.8	10.60	11.06	11.09	422.94	429.13	441.38
Albany-Schenectady-Troy	40.6	40.1	41.1	11.19	11.81	11.74	454.31	473.58	482.51
Binghamton	41.0	39.7	40.5	9.26	9.57	9.55	379.66	379.93	386.78
Buffalo	42.1	40.8	41.4	12.78	13.58	13.28	538.04	554.06	549.79
Elmira	41.6	39.0	40.1	9.42	9.60	9.71	391.87	374.40	389.37
Glens Falls	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Nassau-Suffolk	39.6	38.9	40.0	11.40	11.83	11.65	451.44	460.19	466.00
New York PMSA	37.2	36.4	37.3	9.77	10.27	10.34	363.44	373.83	385.68
New York City	36.8	36.1	37.0	9.70	10.09	10.17	356.96	364.25	376.29
Niagara Falls	41.3	39.9	41.2	14.02	14.29	14.51	579.03	570.17	597.81
Orange County	38.1	38.9	39.3	9.01	9.15	9.47	343.28	355.94	372.17
Poughkeepsie	40.1	39.8	40.8	10.55	10.94	10.76	423.06	435.41	439.01
Rochester	42.8	41.0	41.9	12.09	12.81	12.85	517.45	525.21	538.42
Rockland County	39.4	37.3	39.9	8.31	8.97	9.01	327.41	334.58	359.50
Syracuse	41.2	40.1	41.4	12.12	12.03	12.30	439.34	482.40	509.22
Utica-Rome	40.2	39.7	40.7	9.90	10.31	10.41	397.98	409.31	423.69
Westchester County	40.8	38.8	38.9	10.96	12.11	12.14	447.17	469.87	472.25
North Carolina	40.4	38.9	39.9	8.39	8.67	8.75	338.96	337.26	349.13
Asheville	41.4	40.5	41.6	8.42	8.62	8.72	348.59	349.11	362.75
Charlotte-Gastonia-Rock Hill	40.7	38.7	40.5	8.87	9.26	9.33	361.01	358.36	377.87
Greensboro-Winston-Salem-High Point	39.2	37.3	38.7	9.11	9.24	9.28	357.11	344.65	359.14
Raleigh-Durham	41.5	41.0	41.5	9.51	9.83	9.96	394.67	403.03	413.34
North Dakota	40.0	39.4	40.5	8.88	8.90	9.05	355.20	350.66	366.53
Fargo-Moorhead	37.7	36.9	38.0	9.15	8.92	8.99	344.96	329.15	341.62
Ohio	42.7	41.5	42.8	12.23	12.46	12.64	522.22	517.09	540.99
Akron	42.7	41.3	42.3	11.60	11.61	11.80	495.32	479.49	499.14
Canton	42.0	41.9	42.2	11.21	11.32	11.38	470.82	474.31	480.24
Cincinnati	42.5	41.8	43.4	11.48	11.74	12.00	487.90	490.73	520.80
Cleveland	43.2	41.6	43.2	11.84	11.99	12.21	511.49	498.78	527.47
Columbus	41.4	40.9	41.8	11.93	12.26	12.35	493.90	501.43	516.23
Dayton-Springfield	43.0	41.1	43.0	12.92	13.12	13.55	555.56	539.23	582.65
Toledo	44.0	43.0	43.6	13.29	13.53	13.58	584.76	581.79	592.09
Youngstown-Warren	43.3	42.1	43.6	13.94	14.31	14.55	603.60	602.45	634.38
Oklahoma	41.4	40.1	40.6	10.44	10.98	10.08	432.22	440.30	409.25
Oklahoma City	41.8	40.4	41.4	11.45	13.35	13.89	478.61	539.34	575.05
Tulsa	41.8	41.2	41.9	10.31	11.32	11.10	430.96	466.38	465.09
Oregon	39.5	40.1	39.8	10.81	11.10	11.11	427.00	445.11	442.18
Eugene-Springfield	40.0	40.3	40.0	10.72	11.02	10.92	428.80	444.11	436.80
Portland	39.6	40.0	39.7	10.85	11.23	11.29	429.66	449.20	448.21
Salem	38.0	37.6	37.9	9.77	9.87	9.82	371.26	371.11	372.18

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	May 1989	Apr. 1990	May 1990 ^a	May 1989	Apr. 1990	May 1990 ^a	May 1989	Apr. 1990	May 1990 ^a
Pennsylvania	40.7	39.5	40.7	\$10.59	\$10.91	\$11.02	\$431.01	\$430.95	\$448.51
Allentown-Bethlehem	39.5	38.4	39.9	10.48	10.86	11.01	413.96	417.02	439.30
Altoona	39.9	37.4	37.9	9.25	9.53	9.52	369.08	356.42	360.81
Beaver County	43.6	42.3	41.6	10.59	10.89	10.98	461.72	460.65	456.77
Erie	42.6	41.3	43.4	11.27	11.37	11.58	480.10	469.58	502.57
Harrisburg-Lebanon-Carlisle	40.0	40.2	40.9	10.60	11.03	11.16	424.00	443.41	456.44
Johnstown	39.3	37.4	39.1	8.04	8.48	8.35	315.97	317.15	326.49
Lancaster	40.4	39.3	39.9	10.58	10.86	11.03	427.43	426.80	440.10
Philadelphia PMSA	40.7	39.4	40.5	11.66	11.94	12.00	474.56	470.44	486.00
Pittsburgh	41.3	41.3	41.4	11.13	11.36	11.40	459.67	469.17	471.96
Reading	40.8	39.5	41.0	11.04	11.31	11.56	450.43	446.75	473.96
Scranton-Wilkes-Barre	38.7	38.1	39.0	9.17	9.48	9.54	354.88	361.19	372.06
Sharon	40.9	40.8	41.9	11.67	11.68	11.68	477.30	476.54	489.39
State College	41.0	40.6	40.0	9.07	9.55	9.70	371.87	387.73	388.00
Williamsport	40.7	37.6	38.8	9.42	9.48	9.59	383.39	356.45	372.09
York	41.6	40.4	41.1	10.08	10.37	10.55	419.33	418.95	433.61
Rhode Island	39.6	39.2	39.5	9.00	9.37	9.39	356.40	367.30	370.91
Pawtucket-Woonsocket-Attleboro	40.3	39.0	39.2	8.43	8.84	8.87	339.73	344.76	347.70
Providence	39.0	39.0	39.2	8.56	8.87	8.89	333.84	345.93	348.49
South Carolina	41.3	40.4	40.5	8.47	8.74	8.78	349.81	353.10	355.59
Charleston	39.7	40.2	40.3	9.16	9.56	9.57	363.65	384.31	385.67
Columbia	41.0	42.1	42.2	8.62	8.99	9.00	353.42	378.48	379.80
Greenville-Spartanburg	40.8	41.2	41.4	8.29	8.67	8.70	338.23	357.20	360.18
South Dakota	41.6	39.0	39.9	8.26	8.40	8.43	343.62	327.60	336.36
Sioux Falls	43.6	44.5	44.7	8.16	8.53	8.56	355.78	379.59	382.63
Tennessee	40.8	37.3	38.9	9.27	9.52	9.48	378.22	355.10	368.77
Chattanooga	41.5	38.0	39.3	8.28	8.81	8.63	343.62	334.78	339.16
Johnson City-Kingsport-Bristol	41.9	38.9	39.3	9.85	9.26	9.18	412.72	360.21	360.77
Knoxville	39.2	36.2	37.1	9.26	8.82	8.86	362.99	319.28	328.71
Memphis	42.1	38.6	39.5	9.40	9.76	9.69	395.74	376.74	382.76
Nashville	41.8	41.2	42.0	10.89	11.50	11.50	455.20	473.80	483.00
Texas	41.9	40.6	41.4	10.19	10.46	10.40	426.96	424.68	430.56
Dallas	42.7	40.8	41.9	10.34	10.45	10.42	441.52	426.36	436.60
Ft. Worth-Arlington	40.9	40.3	41.6	10.91	11.19	11.24	446.22	450.96	467.58
Houston	43.6	42.4	43.5	11.67	12.07	11.92	508.81	511.77	518.52
San Antonio	41.3	40.1	41.2	7.56	7.68	7.78	312.23	307.97	320.54
Utah	39.3	39.2	39.6	10.11	10.30	10.25	397.32	403.76	405.90
Salt Lake City-Ogden	39.7	39.7	39.9	9.88	10.19	10.25	392.24	404.54	408.98
Vermont	40.4	39.7	40.7	10.05	10.43	10.40	406.02	414.07	423.28
Burlington	39.8	39.4	41.8	10.66	11.07	10.76	424.27	436.16	449.77
Virginia	41.1	39.6	40.3	9.60	9.94	9.95	394.56	393.62	400.99
Bristol	40.8	38.0	38.6	7.94	8.13	8.21	323.95	308.94	316.91
Charlottesville	41.3	42.4	42.0	8.16	8.79	8.82	337.01	372.70	370.44
Danville	42.5	39.6	39.6	9.47	9.53	9.32	402.48	377.39	369.07
Lynchburg	41.1	39.8	40.3	9.32	9.61	9.76	383.05	382.48	393.33
Northern Virginia	40.2	38.8	40.1	10.65	11.06	10.97	428.13	429.13	439.90
Richmond-Petersburg	41.8	41.7	41.0	12.62	12.93	13.36	527.52	539.18	547.76
Roanoke	41.1	39.0	39.3	11.19	11.51	11.63	459.91	448.89	457.06
Washington	41.0	40.2	40.6	12.06	12.63	12.56	494.46	507.73	509.94
West Virginia	40.8	40.3	40.7	11.15	11.67	11.50	454.92	470.30	468.05
Charleston	42.4	43.7	44.6	13.96	13.99	13.47	591.90	611.36	600.76
Huntington-Ashland	41.0	39.4	40.9	12.82	13.40	13.33	525.62	527.96	545.20
Parkersburg-Marietta	42.7	41.1	41.0	13.37	13.34	13.26	570.90	548.27	543.66
Wheeling	42.1	41.6	44.2	13.33	13.67	14.04	561.19	568.67	620.57

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	May 1989	Apr. 1990	May 1990 ^p	May 1989	Apr. 1990	May 1990 ^p	May 1989	Apr. 1990	May 1990 ^p
Wisconsin	41.1	40.0	41.2	\$10.78	\$10.99	\$11.10	\$443.06	\$439.60	\$457.32
Appleton-Oshkosh	43.3	42.2	42.6	11.79	11.87	12.09	510.51	500.91	515.03
Eau Claire	41.2	43.6	44.3	10.74	11.49	11.47	442.49	500.96	508.12
Green Bay	41.5	40.9	40.1	11.53	12.21	12.34	478.50	499.39	494.83
Janesville-Beloit	42.6	32.0	37.1	13.30	11.90	11.95	566.58	380.80	443.35
Kenosha	40.0	39.4	41.5	12.51	11.54	11.81	500.40	454.68	490.12
La Crosse	40.5	38.4	40.9	9.62	9.68	9.77	389.61	371.71	399.59
Madison	40.4	40.5	40.7	10.15	10.44	10.47	410.06	422.82	426.13
Milwaukee	40.8	39.9	40.5	11.62	11.61	11.81	474.10	463.24	478.31
Racine	38.7	37.9	39.8	10.90	11.15	11.48	421.83	422.59	456.90
Sheboygan	42.1	41.6	43.4	10.41	10.89	11.04	438.26	453.02	479.14
Wausau	42.0	43.6	42.2	10.23	11.10	11.00	429.66	483.96	464.20
Wyoming	39.1	41.0	39.3	10.71	11.50	11.04	418.76	471.50	433.87
Puerto Rico	38.8	37.2	38.6	5.64	5.79	5.92	218.83	215.39	228.51
Virgin Islands	41.5	42.1	40.8	10.42	11.84	11.69	432.43	498.46	476.95

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 1989 benchmarks, and industry detail are classified in accordance with the 1987 *Standard Industrial Classification (SIC) Manual*.

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

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

Industry	Millions of hours (annual rate) ¹			Percent change		
	Apr. 1990 ^r	May 1990 ^r	June 1990 ^p	June 1989 to June 1990 ^p	Apr. 1990 to May 1990 ^r	May 1990 to June 1990 ^p
Total	203,475	205,242	206,224	2.4	0.9	0.5
Private sector	168,145	168,472	168,963	1.8	.2	.3
Mining	1,688	1,710	1,722	10.5	1.3	.7
Construction	10,329	10,435	10,610	2.7	1.0	1.7
Manufacturing	40,609	41,271	41,258	-1.6	1.6	.0
Durable goods	23,969	24,447	24,425	-2.0	2.0	-.1
Nondurable goods	16,640	16,824	16,832	-.9	1.1	.1
Transportation and public utilities	12,044	12,043	12,136	3.2	.0	.8
Wholesale trade	12,586	12,527	12,587	2.3	-.5	.5
Retail trade	30,012	29,916	29,886	1.7	-.3	-.1
Finance, insurance, and real estate	13,060	12,853	12,887	1.4	-1.6	.3
Services	47,817	47,718	47,877	4.0	-.2	.3
Government	35,330	36,770	37,261	5.0	4.1	1.3

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).

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

(1977=100)

Item	Annual average		Quarterly index										
	1988	1989	1987		1988				1989				1990
			III	IV	I	II	III	IV	I	II	III	IV	I
Business sector													
Output per hour of all persons	113.0	114.2	111.7	112.5	113.2	112.6	113.4	113.5	113.8	114.2	114.7	114.8	114.1
Output	140.0	144.8	134.4	136.7	138.2	139.3	140.7	141.9	143.6	144.4	145.6	145.7	146.1
Hours	123.9	126.8	120.3	121.5	122.1	123.8	124.0	125.0	126.2	126.4	127.0	127.0	128.0
Compensation per hour	200.2	211.2	191.8	195.1	196.4	199.1	201.9	204.5	206.9	210.4	212.8	215.7	218.2
Real compensation per hour	102.5	103.2	101.6	102.5	102.3	102.6	102.8	103.0	102.8	103.0	103.5	103.9	103.0
Unit labor costs	177.1	184.9	171.6	173.5	173.5	176.9	178.0	180.2	181.9	184.1	185.6	187.9	191.1
Unit nonlabor payments	170.9	175.8	168.9	167.2	168.9	168.8	171.8	173.7	174.7	176.3	176.5	175.8	176.8
Implicit price deflator	174.9	181.7	170.7	171.3	171.9	174.1	175.8	177.9	179.4	181.4	182.4	183.7	186.1
Nonfarm business sector													
Output per hour of all persons	111.1	112.1	109.5	110.2	111.0	110.5	111.5	112.0	111.6	111.9	112.6	112.7	112.0
Output	140.3	145.0	134.1	136.4	138.0	139.5	141.1	142.8	143.6	144.6	145.9	146.0	146.4
Hours	126.3	129.4	122.4	123.7	124.3	126.2	126.6	127.5	128.6	129.2	129.6	129.5	130.8
Compensation per hour	198.7	209.5	190.5	193.8	195.0	197.5	200.2	203.0	205.5	208.3	211.0	214.1	216.3
Real compensation per hour	101.8	102.4	101.0	101.8	101.5	101.8	101.9	102.3	102.1	102.0	102.6	103.1	102.2
Unit labor costs	178.8	186.9	173.9	175.8	175.7	178.7	179.6	181.3	184.1	186.1	187.4	189.9	193.2
Unit nonlabor payments	172.2	176.5	170.3	168.7	170.3	169.8	172.1	176.3	174.6	176.5	177.6	177.3	177.3
Implicit price deflator	176.5	183.3	172.6	173.4	173.8	175.6	177.0	179.6	180.8	182.8	184.0	185.6	187.7
Manufacturing													
Output per hour of all persons	136.0	138.7	134.2	134.5	135.1	136.0	137.3	137.8	138.6	139.5	139.0	140.1	141.8
Output	137.6	141.6	131.1	133.3	134.7	136.7	138.8	140.3	141.4	142.2	141.7	141.2	141.8
Hours	101.2	102.1	97.7	99.1	99.7	100.5	101.1	101.8	102.0	101.9	102.0	100.8	100.1
Compensation per hour	196.0	204.3	190.4	191.7	194.3	195.3	197.4	200.2	201.9	203.2	206.1	209.6	211.4
Real compensation per hour	100.4	99.9	100.9	100.6	101.2	100.6	100.5	100.8	100.3	99.5	100.3	101.0	99.9
Unit labor costs	144.1	147.3	141.8	142.5	143.8	143.6	143.7	145.2	145.6	145.6	148.3	149.7	149.2
Durable goods													
Output per hour of all persons	143.4	146.9	141.0	141.8	142.7	143.8	145.0	145.8	146.4	148.4	148.3	148.4	150.1
Output	145.6	150.0	136.4	139.8	141.6	144.5	147.0	149.1	150.0	151.0	150.4	148.8	149.2
Hours	101.5	102.1	96.7	98.6	99.2	100.5	101.4	102.3	102.4	101.7	101.4	100.2	99.4
Compensation per hour	192.6	200.4	188.9	189.8	192.6	192.4	193.9	196.9	198.8	199.6	202.7	206.3	207.5
Real compensation per hour	98.7	97.9	100.1	99.7	100.3	99.1	98.7	99.2	98.8	97.8	98.6	99.4	98.0
Unit labor costs	134.4	136.5	134.0	133.9	134.9	133.8	133.8	135.1	135.7	134.5	136.7	139.0	138.2
Nondurable goods													
Output per hour of all persons	125.0	126.6	124.4	123.7	124.0	124.4	125.8	125.8	126.9	126.4	125.4	127.8	129.5
Output	125.8	129.1	123.1	123.5	124.4	124.9	126.6	127.1	128.6	129.1	128.8	130.0	130.8
Hours	100.6	102.0	99.0	99.8	100.4	100.4	100.6	101.0	101.3	102.2	102.8	101.7	101.0
Compensation per hour	201.8	211.2	193.3	195.2	197.5	200.5	203.4	205.7	207.2	209.7	212.4	215.7	218.7
Real compensation per hour	103.4	103.2	102.5	102.5	102.9	103.3	103.5	103.6	103.0	102.7	103.3	103.9	103.3
Unit labor costs	161.4	166.8	155.4	157.8	159.3	161.2	161.6	163.4	163.3	165.9	169.4	168.8	168.9
Nonfinancial corporations													
Output per all-employee hour	114.7	114.8	113.0	113.5	114.6	114.7	115.1	114.9	114.5	114.5	115.3	115.2	114.6
Output	143.5	147.1	136.9	138.9	141.2	142.8	144.3	145.4	145.8	146.5	148.1	148.1	148.2
Hours	125.1	128.2	121.1	122.4	123.2	124.5	125.4	126.5	127.4	128.0	128.4	128.6	129.4
Compensation per hour	194.1	204.0	186.9	189.5	190.9	193.1	195.5	197.8	200.2	202.8	205.5	208.5	210.4
Real compensation per hour	99.4	99.7	99.1	99.5	99.4	99.5	99.5	99.6	99.5	99.3	99.9	100.4	99.4
Total unit costs	174.6	183.8	170.8	172.1	171.9	173.6	175.2	177.5	180.4	182.9	184.6	187.3	189.6
Unit labor costs	169.3	177.8	165.3	167.0	166.6	168.4	169.9	172.1	174.9	177.1	178.1	181.0	183.7
Unit nonlabor costs	190.3	201.7	186.9	187.2	187.8	188.9	191.0	193.3	196.9	200.1	203.9	205.7	207.0
Unit profits	128.8	113.9	129.3	122.0	127.0	129.1	127.5	131.6	119.6	116.6	113.5	106.1	105.7
Implicit price deflator	169.1	175.5	165.8	166.1	166.5	168.2	169.5	172.0	173.1	175.0	176.1	177.5	179.5

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

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

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

Item	Percent change from											
	Previous quarter						Same quarter, previous year					
	IV 1988	I 1989	II 1989	III 1989	IV 1989	I 1990	IV 1988	I 1989	II 1989	III 1989	IV 1989	I 1990
Business sector												
Output per hour of all persons	0.2	1.1	1.6	1.5	0.4	-2.1	0.9	0.5	1.5	1.1	1.1	0.3
Output	3.4	4.8	2.3	3.5	.3	1.1	3.8	3.9	3.6	3.5	2.7	1.8
Hours	3.2	3.7	.6	1.9	.0	3.4	2.9	3.3	2.1	2.4	1.6	1.5
Compensation per hour	5.2	4.8	6.8	4.7	5.6	4.7	4.8	5.4	5.6	5.4	5.5	5.4
Real compensation per hour .....	.8	-.6	.8	1.9	1.5	-3.2	.5	.6	.4	.7	.9	.2
Unit labor costs	5.0	3.7	5.1	3.2	5.2	7.0	3.9	4.8	4.1	4.2	4.3	5.1
Unit nonlabor payments	4.6	2.4	3.5	.4	-1.5	2.4	3.9	3.4	4.4	2.7	1.2	1.2
Implicit price deflator	4.8	3.3	4.6	2.2	2.9	5.4	3.9	4.3	4.2	3.7	3.2	3.8
Nonfarm business sector												
Output per hour of all persons	1.9	-1.3	1.1	2.4	.5	-2.7	1.6	.6	1.3	1.0	.7	.3
Output	4.8	2.4	2.8	3.7	.3	1.0	4.7	4.1	3.7	3.4	2.3	1.9
Hours	2.8	3.7	1.7	1.3	-.2	3.9	3.0	3.5	2.4	2.4	1.6	1.7
Compensation per hour	5.9	4.9	5.6	5.3	6.0	4.1	4.8	5.4	5.5	5.4	5.5	5.3
Real compensation per hour	1.5	-.5	-.4	2.4	1.9	-3.7	.5	.6	.3	.7	.8	.0
Unit labor costs	3.8	6.2	4.5	2.8	5.5	7.0	3.1	4.8	4.1	4.4	4.8	5.0
Unit nonlabor payments	10.1	-3.7	4.2	2.5	-.6	-1	4.5	2.6	3.9	3.2	.6	1.5
Implicit price deflator	5.9	2.8	4.4	2.7	3.4	4.6	3.6	4.0	4.1	4.0	3.3	3.8
Manufacturing												
Output per hour of all persons	1.5	2.4	2.6	-1.6	3.1	4.9	2.5	2.6	2.6	1.2	1.6	2.2
Output	4.4	3.1	2.4	-1.4	-1.3	1.7	5.3	4.9	4.1	2.1	.7	.3
Hours	2.9	.7	-.2	.1	-4.3	-3.0	2.7	2.3	1.4	.9	-.9	-1.9
Compensation per hour	5.7	3.5	2.7	5.9	7.0	3.5	4.4	3.9	4.0	4.4	4.7	4.7
Real compensation per hour	1.4	-1.9	-3.2	3.0	2.8	-4.2	.2	-.8	-1.1	-.2	.1	-.5
Unit labor costs	4.2	1.1	.0	7.6	3.7	-1.3	1.9	1.3	1.4	3.2	3.1	2.4
Durable goods												
Output per hour of all persons	2.2	1.9	5.4	-.4	.5	4.6	2.8	2.6	3.2	2.3	1.8	2.5
Output	6.0	2.2	2.8	-1.7	-4.1	1.2	6.6	5.9	4.5	2.3	-.2	-.5
Hours	3.8	.3	-2.5	-1.3	-4.6	-3.2	3.7	3.2	1.2	.0	-2.0	-2.9
Compensation per hour	6.3	3.8	1.7	6.4	7.3	2.2	3.8	3.2	3.8	4.5	4.8	4.4
Real compensation per hour	1.9	-1.5	-4.1	3.4	3.2	-5.4	-.5	-1.5	-1.4	-.1	.2	-.8
Unit labor costs	4.1	1.9	-3.6	6.8	6.8	-2.2	.9	.6	.5	2.2	2.9	1.8
Nondurable goods												
Output per hour of all persons .....	.1	3.3	-1.5	-3.2	8.0	5.5	1.7	2.3	1.6	-.4	1.5	2.1
Output	1.7	4.7	1.8	-1.0	3.7	2.5	2.9	3.4	3.4	1.8	2.3	1.7
Hours	1.6	1.4	3.3	2.3	-4.0	-2.8	1.2	1.0	1.8	2.1	.7	-.3
Compensation per hour	4.6	2.9	4.9	5.4	6.4	5.6	5.4	4.9	4.6	4.5	4.9	5.6
Real compensation per hour .....	.3	-2.4	-1.1	2.5	2.3	-2.2	1.0	.1	-.6	-.2	.3	.3
Unit labor costs	4.5	-.3	6.5	8.9	-1.5	.2	3.6	2.5	2.9	4.8	3.3	3.4
Nonfinancial corporations												
Output per all-employee hour	-.4	-1.7	.1	3.0	-.6	-2.1	1.3	-.1	-.2	.2	.2	.1
Output	3.2	1.0	2.0	4.3	.2	.3	4.7	3.2	2.6	2.6	1.8	1.7
Hours	3.6	2.7	1.8	1.2	.9	2.4	3.4	3.4	2.8	2.3	1.6	1.6
Compensation per hour	4.8	4.9	5.4	5.4	6.0	3.8	4.4	4.9	5.0	5.1	5.4	5.1
Real compensation per hour .....	.5	-.5	-.6	2.5	1.9	-4.0	.1	.1	-.2	.4	.8	-.1
Total unit costs	5.2	6.9	5.7	3.8	5.8	5.0	3.1	5.0	5.4	5.4	5.5	5.1
Unit labor costs	5.3	6.6	5.3	2.3	6.6	6.0	3.1	5.0	5.2	4.9	5.2	5.0
Unit nonlabor costs	4.9	7.5	6.7	7.7	3.7	2.5	3.3	4.9	5.9	6.7	6.4	5.1
Unit profits	13.3	-31.7	-9.7	-10.3	-23.6	-1.5	7.9	-5.8	-9.7	-11.0	-19.4	-11.6
Implicit price deflator	5.9	2.8	4.3	2.6	3.3	4.5	3.5	4.0	4.0	3.9	3.2	3.7

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

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Alabama	1,901.1	1,905.4	1,916.7	121.6	119.1	113.7	6.4	6.3	5.9
Birmingham	442.6	442.8	445.1	23.5	22.7	21.1	5.3	5.1	4.7
Huntsville	133.5	134.0	135.0	5.8	6.0	5.4	4.3	4.5	4.0
Mobile	211.5	210.6	210.8	16.8	14.4	12.8	8.0	6.8	6.1
Montgomery	139.0	139.7	141.0	8.5	8.2	8.4	6.1	5.9	5.9
Tuscaloosa	71.9	73.2	74.3	3.9	3.1	3.6	5.5	4.3	4.9
Alaska	253.6	252.0	256.2	15.8	19.9	18.6	6.2	7.9	7.3
Arizona	1,751.5	1,714.4	1,726.1	83.6	86.2	93.3	4.8	5.0	5.4
Phoenix	1,091.9	1,062.0	1,066.8	42.1	43.8	46.2	3.9	4.1	4.3
Tucson	325.5	313.4	315.6	13.2	12.3	13.1	4.1	3.9	4.2
Arkansas	1,137.6	1,140.6	1,129.9	80.9	72.5	80.2	7.1	6.4	7.1
Fayetteville-Springdale	63.4	64.9	64.0	2.3	2.0	2.3	3.7	3.1	3.6
Fort Smith	93.6	92.0	91.3	6.9	5.5	6.2	7.4	6.0	6.8
Little Rock-North Little Rock	269.0	270.3	266.8	17.2	14.7	16.9	6.4	5.4	6.3
Pine Bluff	37.8	37.6	37.1	2.9	2.9	3.2	7.7	7.7	8.6
California ¹	14,447.4	14,600.1	14,750.0	739.5	768.9	786.1	5.1	5.3	5.3
Anaheim-Santa Ana	1,417.7	1,388.9	1,392.2	42.3	40.9	44.1	3.0	2.9	3.2
Bakersfield	234.7	232.9	238.0	22.5	23.9	23.4	9.6	10.3	9.8
Fresno	311.2	311.4	315.8	30.6	33.6	30.9	9.8	10.8	9.8
Los Angeles-Long Beach ¹	4,175.2	4,403.0	4,498.0	192.8	239.0	245.0	4.6	5.4	5.4
Modesto	162.6	157.9	160.8	21.7	19.0	20.3	13.4	12.1	12.6
Oakland	1,112.5	1,112.1	1,115.3	49.9	42.7	44.9	4.5	3.8	4.0
Oxnard-Ventura	368.4	369.7	370.8	17.2	16.0	17.8	4.7	4.3	4.8
Riverside-San Bernardino	1,013.9	1,040.8	1,046.8	58.1	60.0	65.8	5.7	5.8	6.3
Sacramento	730.4	729.9	732.2	37.6	32.6	33.8	5.2	4.5	4.6
San Diego	1,169.4	1,187.0	1,191.2	47.5	46.4	51.7	4.1	3.9	4.3
San Francisco	883.8	877.2	877.3	30.7	27.5	29.3	3.5	3.1	3.3
San Jose	844.2	813.6	815.3	33.9	30.4	31.8	4.0	3.7	3.9
Santa Barbara-Santa Maria-Lompoc	183.3	180.9	181.6	7.6	7.6	7.1	4.2	4.2	3.9
Santa Rosa-Petaluma	200.1	207.0	207.4	8.9	8.6	8.8	4.5	4.1	4.3
Stockton	207.2	194.4	199.1	19.9	18.9	18.9	9.6	9.7	9.5
Vallejo-Fairfield-Napa	195.3	197.3	198.9	10.4	9.9	9.9	5.3	5.0	5.0
Colorado	1,687.9	1,725.0	1,729.8	98.2	91.1	83.7	5.8	5.3	4.8
Boulder-Longmont	134.1	136.3	136.7	5.9	5.0	4.9	4.4	3.7	3.6
Denver	868.1	873.5	876.9	47.0	40.1	38.5	5.4	4.6	4.4
Connecticut	1,768.2	1,784.5	1,797.3	56.1	93.2	93.9	3.2	5.2	5.2
Bridgeport-Milford	231.6	230.6	232.0	9.6	14.9	14.9	4.1	6.5	6.4
Hartford	428.8	434.3	436.8	12.2	19.8	20.3	2.9	4.6	4.6
New Britain	73.9	76.3	79.2	2.6	4.7	4.8	3.5	6.1	6.1
New Haven-Meriden	279.3	280.8	280.9	8.5	14.2	14.4	3.1	5.1	5.1
Stamford	114.6	114.4	115.3	2.6	4.1	4.1	2.2	3.6	3.6
Waterbury	102.8	105.2	105.5	4.2	8.3	7.9	4.0	7.9	7.5
Delaware	361.9	360.0	362.8	13.2	14.3	14.5	3.6	4.0	4.0
Wilmington	312.5	313.7	315.0	11.2	12.6	12.5	3.6	4.0	4.0
District of Columbia	312.4	299.2	301.2	16.4	17.4	18.6	5.3	5.8	6.2
Washington	2,205.3	2,204.2	2,221.3	60.4	55.9	60.9	2.7	2.5	2.7
Florida ¹	6,211.4	6,297.4	6,301.8	381.2	347.2	342.2	6.1	5.5	5.4
Daytona Beach	155.7	155.9	154.4	9.3	8.4	7.8	6.0	5.4	5.0
Fort Lauderdale-Hollywood-Pompano Beach	651.6	657.7	655.9	37.5	33.8	33.3	5.8	5.1	5.1
Fort Myers-Cape Coral	145.6	154.1	153.1	6.0	6.1	6.7	4.1	4.0	4.3
Gainesville	106.8	106.6	106.8	4.1	3.9	3.6	3.8	3.6	3.4
Jacksonville	454.7	450.6	454.4	28.7	23.2	23.4	6.3	5.1	5.1
Lakeland-Winter Haven	179.7	183.3	183.6	14.5	18.1	17.9	8.1	9.9	9.8
Melbourne-Titusville-Palm Bay	188.4	191.9	191.9	10.9	10.5	10.0	5.8	5.5	5.2
Miami-Hialeah	945.3	947.1	947.7	68.0	58.7	57.9	7.2	6.2	6.1
Orlando	609.3	620.2	622.1	35.2	30.9	29.2	5.8	5.0	4.7
Pensacola	148.5	145.2	146.0	10.7	7.8	7.9	7.2	5.4	5.4
Sarasota	123.0	124.9	125.0	5.0	5.2	4.9	4.1	4.1	3.9
Tallahassee	132.0	134.6	135.2	6.2	5.1	5.4	4.7	3.8	4.0
Tampa-St. Petersburg-Clearwater	1,002.1	1,006.2	1,007.0	56.0	47.7	47.9	5.6	4.7	4.8
West Palm Beach-Boca Raton-Delray Beach	417.0	432.2	427.7	27.1	24.6	24.0	6.5	5.7	5.6

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Georgia	3,146.2	3,187.1	3,215.4	165.2	149.5	155.3	5.3	4.7	4.8
Albany	52.5	52.2	52.8	4.0	3.2	3.2	7.7	6.1	6.0
Athens	76.6	78.1	79.1	3.2	3.0	2.9	4.2	3.8	3.7
Atlanta	1,492.4	1,513.0	1,525.0	73.2	67.2	69.5	4.9	4.4	4.6
Augusta	186.5	187.2	188.9	9.7	7.3	8.0	5.2	3.9	4.2
Columbus	97.9	96.5	97.1	5.2	5.3	5.2	5.3	5.5	5.4
Macon-Warner Robins	131.0	131.8	133.0	6.7	5.4	5.7	5.1	4.1	4.3
Savannah	112.1	113.2	114.7	5.5	4.9	5.8	4.9	4.3	5.0
Hawaii	526.5	537.7	540.0	14.1	13.9	13.5	2.7	2.6	2.5
Honolulu	386.3	395.3	397.4	9.3	8.8	8.8	2.4	2.2	2.2
Idaho	490.5	501.0	500.8	24.1	32.7	28.9	4.9	6.5	5.8
Boise City	113.9	117.1	116.4	3.8	4.5	4.4	3.3	3.8	3.8
Illinois¹	5,970.7	6,038.8	5,964.5	355.4	376.4	324.3	6.0	6.2	5.4
Aurora-Elgin	181.8	183.9	182.7	9.2	10.8	9.1	5.1	5.9	5.0
Bloomington-Normal	74.7	74.8	74.7	3.5	3.1	2.5	4.7	4.2	3.3
Champaign-Urbana-Rantoul	91.8	92.2	91.9	3.6	3.3	3.3	4.0	3.6	3.6
Chicago	3,266.5	3,318.4	3,276.6	185.3	198.7	174.7	5.7	6.0	5.3
Davenport-Rock Island-Moline	183.2	182.2	180.6	11.0	10.8	9.2	6.0	5.9	5.1
Decatur	61.3	60.3	59.1	4.3	4.3	3.5	7.1	7.1	5.9
Joliet	209.8	208.7	206.1	13.6	14.0	12.4	6.5	6.7	6.0
Kankakee	47.0	47.0	46.3	3.6	3.6	2.9	7.7	7.6	6.2
Lake County	293.8	297.7	294.8	10.8	11.6	9.6	3.7	3.9	3.2
Peoria	163.4	163.0	161.5	9.4	9.9	8.2	5.8	6.1	5.1
Rockford	153.8	155.7	153.1	8.6	9.6	7.9	5.6	6.1	5.2
Springfield	113.0	113.8	113.8	5.1	5.0	4.5	4.5	4.4	4.0
Indiana	2,924.4	2,854.9	2,888.5	122.1	156.8	149.9	4.2	5.5	5.2
Anderson	60.7	59.0	59.9	2.9	3.5	3.9	4.8	5.9	6.4
Bloomington	61.9	62.0	62.1	2.1	2.7	2.6	3.4	4.4	4.2
Elkhart-Goshen	101.5	96.9	98.4	4.2	4.4	4.2	4.1	4.6	4.3
Evansville	147.5	146.2	147.5	6.6	8.5	8.1	4.5	5.8	5.5
Fort Wayne	208.2	204.4	208.4	7.1	10.8	10.4	3.4	5.3	5.0
Gary-Hammond	264.4	259.3	262.7	12.6	16.9	16.7	4.8	6.5	6.4
Indianapolis	702.7	679.5	687.4	24.7	27.5	27.3	3.5	4.0	4.0
Kokomo	49.3	47.7	48.5	2.6	2.8	3.0	5.3	5.8	6.2
Lafayette-West Lafayette	70.9	70.9	71.6	2.2	2.2	2.2	3.1	3.1	3.0
Muncie	61.5	60.8	61.2	2.7	3.4	3.0	4.3	5.6	5.0
South Bend-Mishawaka	133.8	135.0	136.3	5.2	7.7	7.3	3.9	5.7	5.3
Terre Haute	61.3	60.6	59.5	2.7	3.2	2.9	4.4	5.2	4.9
Iowa	1,515.1	1,508.4	1,509.3	57.2	64.7	58.0	3.8	4.3	3.8
Cedar Rapids	97.5	98.1	97.5	3.3	5.8	5.2	3.4	6.0	5.3
Des Moines	233.8	234.3	232.5	8.3	7.7	7.3	3.6	3.3	3.2
Dubuque	45.0	44.7	44.3	2.3	2.9	2.3	5.1	6.4	5.2
Iowa City	62.8	63.4	63.3	.8	1.0	1.0	1.2	1.5	1.6
Sioux City	60.8	60.3	60.0	2.2	2.6	2.4	3.7	4.2	4.1
Waterloo-Cedar Falls	72.0	72.9	72.1	3.4	3.6	3.3	4.8	4.9	4.6
Kansas	1,285.5	1,297.1	1,303.8	49.3	48.4	44.9	3.8	3.7	3.4
Lawrence	42.8	44.1	44.5	1.4	1.2	1.5	3.4	2.8	3.3
Topeka	92.6	92.6	93.6	3.8	3.4	3.5	4.1	3.7	3.8
Wichita	254.6	254.0	253.9	10.1	10.0	8.5	4.0	3.9	3.3
Kentucky	1,747.5	1,775.2	1,768.3	110.3	109.1	101.6	6.3	6.1	5.7
Lexington-Fayette	199.8	204.9	203.2	7.3	8.0	7.5	3.7	3.9	3.7
Louisville	520.5	522.3	518.4	27.2	26.5	24.9	5.2	5.1	4.8
Owensboro	45.6	45.8	45.5	3.1	2.8	2.9	6.7	6.2	6.3
Louisiana	1,889.8	1,862.1	1,884.4	147.9	109.6	114.4	7.8	5.9	6.1
Alexandria	59.7	56.9	57.4	4.6	3.4	3.5	7.7	5.9	6.2
Baton Rouge	269.7	268.8	270.0	17.6	13.7	14.1	6.5	5.1	5.2
Houma-Thibodaux	68.9	68.7	69.6	5.3	3.9	3.7	7.7	5.7	5.3
Lafayette	99.5	98.9	100.2	6.8	4.5	4.7	6.8	4.5	4.7
Lake Charles	75.6	75.1	76.9	6.0	4.3	4.8	7.9	5.8	6.2
Monroe	67.7	67.6	67.9	4.9	3.5	3.6	7.3	5.2	5.3
New Orleans	589.7	578.8	584.8	41.8	31.4	33.6	7.1	5.4	5.7
Shreveport	158.7	154.0	156.8	12.5	9.3	10.2	7.9	6.1	6.5
Maine	609.0	616.9	622.3	25.0	28.2	24.3	4.1	4.6	3.9
Lewiston-Auburn	41.9	42.6	42.4	2.1	2.4	2.1	5.1	5.5	5.1
Portland	127.6	130.4	130.9	2.7	3.7	3.5	2.1	2.9	2.7

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		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
Maryland	2,504.7	2,519.9	2,540.4	92.8	83.4	82.7	3.7	3.3	3.3
Baltimore	1,198.0	1,204.3	1,211.3	48.5	43.5	43.1	4.1	3.6	3.6
Massachusetts¹	3,186.5	3,160.4	3,190.4	105.7	173.1	163.0	3.3	5.5	5.1
Boston	1,576.9	1,559.7	1,571.5	45.3	71.9	68.9	2.9	4.6	4.4
Brockton	100.5	100.9	101.9	3.9	6.6	6.3	3.9	6.6	6.2
Fall River	77.1	79.1	79.6	3.6	7.4	6.4	4.7	9.4	8.1
Fitchburg-Leominster	48.9	48.9	49.4	2.3	3.5	3.5	4.6	7.3	7.1
Lawrence-Haverhill	189.0	193.4	193.8	8.9	12.6	12.8	4.7	6.5	6.6
Lowell	154.4	152.1	153.2	6.0	9.7	9.4	3.9	6.4	6.1
New Bedford	86.6	87.0	87.3	4.3	7.5	6.8	4.9	8.7	7.8
Pittsfield	40.2	41.1	41.5	1.6	2.5	2.2	4.1	6.0	5.4
Springfield	256.8	254.6	256.2	8.6	13.4	12.9	3.4	5.3	5.1
Worcester	221.6	222.5	224.8	7.1	12.5	12.1	3.2	5.6	5.4
Michigan¹	4,505.3	4,447.4	4,549.5	288.2	311.0	321.7	6.4	7.0	7.1
Ann Arbor	158.1	160.1	161.0	5.3	6.1	6.4	3.4	3.8	4.0
Battle Creek	63.9	64.1	64.5	4.2	4.9	5.0	6.5	7.6	7.8
Benton Harbor	78.5	76.4	78.5	5.3	5.2	5.5	6.8	6.8	7.0
Detroit	2,159.2	2,102.8	2,149.3	140.2	143.9	150.3	6.5	6.8	7.0
Flint	180.9	176.0	180.3	16.4	14.4	14.7	9.1	8.2	8.2
Grand Rapids	360.4	364.3	371.2	16.5	20.3	21.7	4.6	5.6	5.8
Jackson	64.3	63.6	65.1	4.0	4.9	5.1	6.3	7.7	7.8
Kalamazoo	115.4	116.6	116.3	5.2	6.0	6.2	4.5	5.1	5.3
Lansing-East Lansing	240.1	233.4	239.0	11.3	11.9	12.2	4.7	5.1	5.1
Muskegon	66.9	66.3	67.8	5.7	6.2	6.4	8.5	9.4	9.4
Saginaw-Bay City-Midland	179.1	180.5	185.3	11.3	12.5	13.1	6.3	6.9	7.1
Minnesota	2,306.6	2,330.2	2,360.0	104.2	125.7	102.6	4.5	5.4	4.3
Duluth	107.6	109.9	109.8	6.6	7.9	6.2	6.1	7.2	5.7
Minneapolis-St.Paul	1,368.6	1,388.4	1,400.4	55.1	62.5	54.5	4.0	4.5	3.9
Rochester	60.8	61.9	62.8	1.8	2.2	1.8	3.0	3.6	2.8
St. Cloud	98.3	102.6	103.7	5.0	6.6	5.1	5.1	6.4	4.9
Mississippi	1,166.4	1,178.6	1,179.2	91.0	78.7	69.9	7.8	6.7	5.9
Jackson	201.4	207.4	208.0	10.9	9.5	8.8	5.4	4.6	4.2
Missouri	2,619.9	2,653.9	2,668.1	132.6	124.5	121.0	5.1	4.7	4.5
Kansas City	840.8	863.1	865.4	39.2	35.0	34.2	4.7	4.1	4.0
St. Louis LMA	1,267.9	1,281.0	1,276.2	67.6	65.6	61.0	5.3	5.1	4.8
Springfield	126.0	129.0	128.4	5.4	4.5	4.9	4.3	3.5	3.8
Montana	405.6	410.2	407.4	22.2	22.7	22.8	5.5	5.5	5.6
Nebraska	809.2	837.8	846.1	22.8	20.3	16.8	2.8	2.4	2.0
Lincoln	125.6	129.8	130.7	3.2	2.6	2.0	2.6	2.0	1.6
Omaha	328.9	335.1	336.0	10.5	9.4	8.2	3.2	2.8	2.5
Nevada	599.7	617.5	612.7	28.0	29.5	30.4	4.7	4.8	5.0
Las Vegas	357.6	373.5	371.0	17.0	17.9	19.1	4.7	4.8	5.1
Reno	137.1	136.0	134.6	6.0	6.3	6.3	4.4	4.6	4.7
New Hampshire	603.9	620.0	625.8	20.0	30.5	33.6	3.3	4.9	5.4
Manchester	85.8	87.7	87.9	2.7	4.1	4.5	3.2	4.6	5.1
Nashua	98.4	98.9	99.6	3.5	5.1	6.2	3.6	5.1	6.3
Portsmouth-Dover-Rochester	133.9	128.2	130.6	3.0	4.5	4.9	2.2	3.5	3.8
New Jersey¹	3,955.1	3,976.4	4,019.0	122.6	176.7	184.8	3.1	4.4	4.6
Atlantic City	173.6	177.2	183.4	6.8	9.6	9.6	3.9	5.4	5.2
Bergen-Passaic	703.8	706.8	710.3	20.3	29.1	29.8	2.9	4.1	4.2
Jersey City	269.4	271.8	274.9	13.9	19.0	20.3	5.1	7.0	7.4
Middlesex-Somerset-Hunterdon	565.0	566.3	571.0	12.3	18.9	19.5	2.2	3.3	3.4
Monmouth-Ocean	481.1	478.8	486.3	13.0	20.3	20.8	2.7	4.2	4.3
Newark	949.3	962.9	970.5	30.7	45.4	47.9	3.2	4.7	4.9
Trenton	170.5	171.3	172.6	4.0	6.0	6.1	2.4	3.5	3.6
Vineland-Millville-Bridgeton	57.8	59.0	59.8	3.2	4.3	4.4	5.5	7.3	7.3
New Mexico	695.4	702.0	704.3	45.8	46.7	45.7	6.6	6.6	6.5
Albuquerque	265.0	263.4	264.6	13.3	14.4	13.9	5.0	5.5	5.3
Las Cruces	57.7	59.5	60.5	3.8	4.4	4.1	6.6	7.4	6.7
Santa Fe	66.4	67.8	68.6	2.7	2.4	2.4	4.1	3.5	3.4

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		
	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P	May 1989	Apr. 1990	May 1990 ^P
New York¹	8,588.6	8,581.3	8,635.3	445.4	410.9	440.8	5.2	4.8	5.1
Albany-Schenectady-Troy	430.7	435.5	434.0	17.7	15.3	14.8	4.1	3.5	3.4
Binghamton	126.2	122.3	121.7	6.4	5.4	4.9	5.1	4.4	4.0
Buffalo	462.2	458.2	457.1	27.6	22.0	20.7	3.0	4.8	4.5
Elmira	43.3	43.8	44.3	2.0	1.9	1.9	4.5	4.3	4.4
Glens Falls	54.3	52.3	53.1	3.2	3.1	3.0	5.0	6.0	5.7
Nassau-Suffolk	1,429.0	1,409.9	1,412.3	60.6	49.7	53.2	4.2	3.5	3.8
New York	3,913.6	3,945.2	3,985.3	215.3	214.9	250.8	5.5	5.4	6.3
New York City ¹	3,237.3	3,272.0	3,311.0	189.3	194.0	229.0	5.8	5.9	6.9
Orange County	136.8	135.9	136.6	6.7	6.0	6.0	4.9	4.4	4.4
Poughkeepsie	128.8	127.2	127.4	4.6	3.6	3.8	3.6	2.8	3.0
Rochester	510.6	505.1	507.2	21.5	18.8	18.0	4.2	3.7	3.6
Syracuse	320.1	319.4	318.7	16.1	12.8	12.5	5.0	4.0	3.9
Utica-Rome	137.9	136.3	137.8	7.4	6.3	6.1	5.4	4.6	4.4
North Carolina¹	3,399.3	3,366.7	3,439.1	119.7	120.1	131.5	3.5	3.6	3.8
Asheville	90.8	92.0	94.5	2.4	2.7	2.8	2.6	2.9	3.0
Charlotte-Gastonia-Rock Hill	643.7	647.1	662.6	20.9	19.3	21.7	3.3	3.0	3.3
Greensboro-Winston-Salem-High Point	525.6	509.0	515.5	18.3	16.9	18.5	3.5	3.3	3.6
Raleigh-Durham	417.5	416.8	422.4	11.6	9.0	10.3	2.8	2.2	2.4
North Dakota	334.4	325.6	327.2	11.7	13.1	12.2	3.5	4.0	3.7
Bismarck	48.3	47.2	47.3	1.6	1.7	1.6	3.3	3.7	3.4
Fargo-Moorhead	88.0	87.7	87.8	2.2	2.8	2.3	2.5	3.2	2.6
Grand Forks	37.2	36.4	36.5	1.3	1.3	1.3	3.4	3.6	3.7
Ohio¹	5,392.7	5,373.0	5,409.0	276.3	301.7	304.8	5.1	5.6	5.6
Akron	332.8	331.9	335.2	16.6	17.4	17.0	5.0	5.2	5.1
Canton	193.3	192.6	193.4	11.2	12.6	12.6	5.8	6.5	6.5
Cincinnati	774.2	780.3	784.8	33.8	31.5	34.3	4.4	4.0	4.4
Cleveland	942.6	939.2	946.3	41.8	44.9	45.5	4.4	4.8	4.8
Columbus	725.7	726.7	733.0	32.1	31.2	32.6	4.4	4.3	4.5
Dayton-Springfield	474.3	474.2	476.3	22.1	24.3	25.0	4.7	5.1	5.2
Toledo	317.4	315.5	317.8	17.2	20.4	21.3	5.4	6.5	6.7
Youngstown-Warren	222.9	221.7	224.1	13.5	15.2	14.7	6.1	6.9	6.5
Oklahoma	1,512.4	1,522.0	1,547.2	89.7	76.5	84.1	5.9	5.0	5.4
Enid	27.5	27.6	27.8	1.3	1.1	1.2	4.7	4.0	4.2
Lawton	47.9	48.2	49.2	2.4	2.7	2.8	5.1	5.7	5.7
Oklahoma City	497.9	502.4	510.7	24.5	20.8	25.3	4.9	4.1	5.0
Tulsa	334.8	343.2	349.6	21.5	18.0	19.1	6.4	5.2	5.5
Oregon	1,472.0	1,450.9	1,484.8	80.9	71.6	71.0	5.5	4.9	4.8
Eugene-Springfield	147.3	147.5	151.0	7.4	7.4	7.6	5.0	5.0	5.0
Portland	673.0	666.9	680.9	28.4	24.4	25.7	4.2	3.7	3.8
Salem	136.2	132.5	137.0	8.1	6.9	6.9	5.9	5.2	5.0
Pennsylvania¹	5,825.5	5,877.9	5,888.6	258.5	315.5	285.0	4.4	5.4	4.8
Allentown-Bethlehem	327.4	330.1	329.5	14.0	18.4	17.2	4.3	5.6	5.2
Alltoona	59.7	61.1	61.2	3.5	4.6	3.6	5.8	7.5	5.9
Beaver County	59.3	59.2	59.1	4.1	4.8	4.2	7.0	8.1	7.1
Erie	131.3	133.5	133.4	6.4	7.3	6.7	4.9	5.4	5.0
Harrisburg-Lebanon-Carlisle	331.1	332.7	336.2	13.0	13.1	12.4	3.9	3.9	3.7
Johnstown	94.7	95.0	94.6	6.2	7.5	6.5	6.6	7.9	6.9
Lancaster	224.2	223.9	226.7	6.9	8.4	8.2	3.1	3.7	3.6
Philadelphia	2,414.9	2,413.7	2,422.2	86.6	108.0	103.3	3.6	4.5	4.3
Pittsburgh	973.7	988.6	992.2	43.2	48.8	43.4	4.4	4.9	4.4
Reading	176.6	179.2	179.0	8.1	9.5	8.5	4.6	5.3	4.7
Scranton-Wilkes-Barre	358.4	366.9	367.2	18.9	24.6	22.7	5.3	6.7	6.2
Sharon	51.2	52.0	52.7	2.2	3.2	2.9	4.2	6.2	5.5
State College	65.9	68.3	68.6	3.1	3.2	3.3	4.7	4.7	4.8
Williamsport	59.9	61.6	61.1	3.5	4.4	4.0	5.8	7.1	6.5
York	222.2	223.8	224.2	9.0	10.8	10.0	4.1	4.8	4.5
Rhode Island	522.4	524.9	521.2	20.3	37.4	36.0	3.9	7.1	6.9
Pawtucket-Woonsocket-Attleboro	165.9	167.5	165.9	7.1	12.7	11.4	4.3	7.6	6.9
Providence	342.4	344.7	342.2	12.9	23.5	23.2	3.8	6.8	6.8
South Carolina	1,691.2	1,703.3	1,728.5	69.2	68.6	72.7	4.1	4.0	4.2
Charleston	229.7	230.3	236.8	8.6	6.7	7.5	3.8	2.9	3.2
Columbia	239.1	235.4	238.5	7.4	7.3	8.1	3.1	3.1	3.4
Greenville-Spartanburg	336.8	341.6	345.2	10.7	11.6	12.5	3.2	3.4	3.6
South Dakota	364.8	361.8	362.9	14.3	13.2	12.8	3.9	3.7	3.5
Rapid City	40.3	40.1	39.7	1.6	1.6	1.4	4.0	4.0	3.5
Sioux Falls	74.6	74.7	74.1	2.4	2.2	1.9	3.2	2.9	2.6

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		
	May 1989	Apr. 1990	May 1990 ^p	May 1989	Apr. 1990	May 1990 ^p	May 1989	Apr. 1990	May 1990 ^p
Tennessee	2,353.1	2,372.0	2,390.1	127.7	116.6	128.4	5.4	4.9	5.4
Chattanooga	208.0	207.9	208.0	11.9	9.1	9.4	5.7	4.4	4.5
Johnson City-Kingsport-Bristol	216.5	218.6	218.6	11.2	9.0	10.7	5.2	4.1	4.9
Knoxville	289.3	284.7	287.1	16.1	14.9	14.5	5.6	5.2	5.1
Memphis	462.6	467.3	469.3	24.5	20.4	22.5	5.3	4.4	4.8
Nashville	527.5	524.9	527.9	21.1	19.8	21.8	4.0	3.8	4.1
Texas¹	8,382.7	8,386.2	8,409.7	495.5	499.2	522.9	5.9	6.0	6.2
Abilene	52.5	51.7	52.2	3.1	2.8	3.2	6.0	5.4	6.2
Amarillo	97.7	96.3	97.3	4.7	4.7	5.2	4.9	4.9	5.3
Austin	433.9	431.4	431.2	21.5	18.9	20.8	4.9	4.4	4.8
Beaumont-Port Arthur	162.5	163.2	164.1	13.7	12.0	12.7	8.5	7.3	7.8
Brazoria	85.6	85.6	86.4	5.4	4.4	4.8	6.3	5.1	5.5
Brownsville-Harlingen	102.3	107.0	107.8	10.5	11.5	12.1	10.3	10.8	11.3
Bryan-College Station	62.0	62.7	61.5	2.5	2.0	2.3	4.1	3.3	3.7
Corpus Christi	159.1	157.6	157.2	12.2	10.0	10.1	7.7	6.3	6.4
Dallas	1,440.9	1,429.6	1,432.1	69.0	69.6	74.4	4.8	4.9	5.2
El Paso	245.5	251.1	252.5	21.8	25.6	26.9	8.9	10.2	10.6
Fort Worth-Arlington	719.5	723.4	727.5	34.5	34.5	41.4	4.8	4.8	5.7
Galveston-Texas City	111.6	109.1	109.7	7.5	7.6	7.8	6.7	7.0	7.1
Houston	1,658.3	1,677.4	1,683.9	87.2	82.3	88.8	5.3	4.9	5.3
Killeen-Temple	96.4	98.5	99.3	6.3	6.6	6.7	6.6	6.7	6.8
Laredo	50.3	53.6	52.9	5.0	6.0	5.3	9.9	11.1	10.0
Longview-Marshall	79.3	79.8	79.8	6.1	5.2	5.5	7.7	6.5	7.0
Lubbock	113.8	113.3	114.2	4.9	4.8	5.3	4.3	4.2	4.6
McAllen-Edinburg-Mission	154.5	165.5	163.1	20.6	32.4	27.5	13.3	19.6	16.9
Midland	49.6	48.8	48.9	2.8	2.5	2.7	5.7	5.1	5.6
Odessa	52.2	50.4	50.5	3.9	3.2	3.1	7.5	6.3	6.2
San Angelo	45.8	44.3	44.2	2.4	2.6	2.7	5.2	5.8	6.1
San Antonio	617.7	609.8	610.5	39.9	42.6	42.9	6.5	7.0	7.0
Sherman-Denison	47.2	46.9	46.8	2.4	2.4	2.5	5.1	5.1	5.4
Texarkana	57.8	57.5	57.3	3.9	3.4	3.6	6.7	5.9	6.4
Tyler	75.3	74.7	74.6	4.8	4.2	4.6	6.3	5.6	6.1
Victoria	35.4	35.9	36.5	2.0	1.6	1.8	5.6	4.6	4.9
Waco	92.8	93.8	94.1	4.6	4.8	5.6	5.0	5.1	5.9
Wichita Falls	57.0	55.5	56.1	3.3	3.0	3.7	5.7	5.4	6.6
Utah	781.7	787.2	788.3	43.6	41.3	37.9	5.6	5.2	4.8
Provo-Orem	106.8	114.0	111.4	4.8	4.6	4.4	4.5	4.0	4.0
Salt Lake City-Ogden	510.7	505.0	508.2	27.2	24.7	23.8	5.3	4.9	4.7
Vermont	306.8	310.9	315.4	10.6	14.1	13.6	3.5	4.5	4.3
Burlington	79.0	80.8	82.8	2.1	2.2	2.3	2.7	2.7	2.8
Virginia	3,152.9	3,144.8	3,169.3	115.7	106.1	118.8	3.7	3.4	3.7
Charlottesville	71.1	75.3	75.3	2.1	1.5	1.6	3.0	2.0	2.1
Danville	52.4	51.6	52.0	3.3	3.0	3.6	6.3	5.8	7.0
Lynchburg	73.7	73.8	74.1	3.0	3.1	3.2	4.1	4.2	4.3
Norfolk-Virginia Beach-Newport News	618.0	617.1	622.7	26.9	24.4	26.4	4.3	4.0	4.2
Richmond-Petersburg	452.5	450.9	452.7	15.9	14.0	16.3	3.5	3.1	3.6
Roanoke	122.4	120.1	122.3	4.2	2.7	4.2	3.4	2.3	3.4
Washington	2,481.1	2,537.9	2,525.2	145.1	132.8	133.4	5.8	5.2	5.3
Seattle	1,112.7	1,146.3	1,137.9	52.3	43.1	43.8	4.7	3.8	3.9
West Virginia	770.0	753.8	769.9	65.3	50.8	56.8	8.5	6.7	7.4
Charleston	118.8	117.5	120.3	8.7	6.2	7.0	7.3	5.2	5.8
Huntington-Ashland	130.7	130.6	130.9	8.8	8.1	8.9	6.7	6.2	6.8
Parkersburg-Marietta	72.6	71.6	72.2	4.8	4.1	4.1	6.6	5.7	5.7
Wheeling	72.6	72.4	73.6	4.7	4.3	4.5	6.4	6.0	6.1
Wisconsin	2,609.9	2,550.5	2,556.4	116.3	120.0	99.5	4.5	4.7	3.9
Appleton-Oshkosh-Neenah	173.5	170.2	171.4	7.4	7.6	7.6	4.2	4.5	4.4
Eau Claire	76.1	75.1	75.0	3.0	3.7	2.9	4.0	4.9	3.9
Green Bay	109.2	108.4	108.6	4.7	4.5	4.0	4.3	4.1	3.7
Janesville-Beloit	75.1	73.6	72.7	4.6	3.7	3.1	6.2	5.0	4.2
Kenosha	54.9	51.5	51.2	5.0	3.7	3.1	9.1	7.2	6.1
La Crosse	55.4	53.3	53.5	2.2	2.0	1.7	4.0	3.8	3.2
Madison	225.4	222.3	222.7	5.7	6.1	4.9	2.5	2.7	2.2
Milwaukee	773.5	763.5	764.1	31.0	30.2	28.1	4.0	4.0	3.7
Racine	92.2	91.6	91.0	4.7	5.3	3.8	5.1	5.8	4.2
Sheboygan	59.6	58.0	58.2	2.8	2.6	2.3	4.7	4.5	3.9
Wausau	65.4	64.6	64.4	2.9	3.2	2.5	4.5	4.9	3.8
Wyoming	237.1	243.3	244.0	14.8	14.4	12.5	6.2	5.9	5.1
Casper	30.7	31.9	31.4	2.1	2.1	1.9	6.9	6.5	5.9

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

^p = preliminary.

NOTE: Data refer to place of residence. Estimates for 1989 have been benchmarked to 1989 Current Population Survey annual averages. Except in the

11 States and 2 areas designated by footnote 1, estimates for 1990 are provisional and will be revised when new benchmark information becomes available. Area definitions are published annually in the May issue of this publication.

Explanatory Notes

Introduction

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

Data based on household interviews are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 60,000 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 receive 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 THE HOUSEHOLD DATA WITH OTHER SERIES

Unemployment insurance data. The unemployed total from the household survey includes all persons who did not have a job at all during the survey week and were looking for work or were waiting to be called back to a job from which they had been laid off, whether or not they were eligible for unemployment insurance. Figures on unemployment insurance claims, prepared by the Employment and Training Administration of the Department of Labor, exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (some workers in agriculture, domestic services, and religious organizations, and self-employed and unpaid family workers). Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total 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 THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

Statistics on manufactures and business, Bureau of the Census. BLS establishment statistics on employment differ from employment counts derived by the Bureau of Census from its censuses or 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*, BLS Bulletin 2307.

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 60,000 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 60,000 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 origin

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 non-institutional population; i.e., veterans in institutions and women are excluded. Nonveterans are men who never served in the Armed Forces.

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

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

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

Single, never married; married, spouse present; and other marital status are terms used to define the marital status of individuals at the time of interview. Married, spouse present, applies to husband and wife if both were reported as members of the same household even though one may be temporarily absent on business, vacation, on a visit, in a hospital, etc. Other marital status applies to persons who are married, spouse absent; widowed; or divorced. Married, spouse absent, includes persons who are separated because of marital discord, as well as persons who are living apart because either the husband or the wife was employed and living away from home, serving in the Armed Forces, or had a different place of residence for any reason.

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

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

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

count of families used in this publication excludes unrelated subfamilies such as lodgers, guests, or resident employees living in a household but not related to the householder. Families are classified either as married-couple families or as families maintained by women or men without spouses. A family maintained by a woman or a man is one in which the householder is either single, widowed, divorced, or married, spouse absent. Data on the earnings of families exclude all those in which there is no wage or salary earner or in which the husband, wife, or other persons maintaining the family is either self-employed or in the Armed Forces.

Poverty areas are defined as those census tracts in tracted areas, and Minor Civil Division's (MCD's) in untraced areas, in which 20 percent or more of the noninstitutional residents were poor according to the 1980 decennial census. Persons were classified as poor or nonpoor by comparing money income to a series of poverty income thresholds which vary by family size and number of children. While poverty areas have a substantial concentration of low-income residents, many poor persons live outside these areas, and conversely, the areas include many people who are not poor.

The *metropolitan areas* classification consists of the total of all Metropolitan Statistical Areas (MSA's) as defined by the Office of Management and Budget (OMB) as of June 30, 1983. These definitions differ from those used in the 1980 decennial census. A detailed discussion of the MSA definitions as well as changes in terminology can be found in "The New Metropolitan Area Definitions" section of the *1980 Census of Population Supplementary Report on Metropolitan Statistical Areas*, PC-S1-18. Nonmetropolitan areas consist of the total territory outside MSA's.

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

HISTORICAL COMPARABILITY

Change in lower age limit

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

Report on the Labor Force, February 1967.

Noncomparability of labor force levels

In addition to the changes introduced in 1967, there are several other periods of noncomparability in the labor force data: (1) Beginning in 1953, as a result of introducing data from the 1950 census into the estimating procedures, population levels were raised by about 600,000; labor force, total employment, and agricultural employment were increased by about 350,000, primarily affecting the figures for totals and men; other categories were relatively unaffected. (2) Beginning in 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force. Four-fifths of this increase was in nonagricultural employment; other labor force categories were not appreciably affected. (3) Beginning in 1962, the introduction of data from the 1960 census reduced the population by about 50,000 and labor force and employment by about 200,000; unemployment totals were virtually unchanged. (4) Beginning in 1972, information from the 1970 census was introduced into the estimation procedures, increasing the population by about 800,000; labor force and employment totals were raised by a little more than 300,000; and unemployment levels and rates were essentially unchanged. (5) A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment, which affected the white and black-and-other groups but had little effect on totals, resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black-and-other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black-and-other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

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

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

Beginning in January 1978, the introduction of an expansion in the sample and revisions in the estimation procedures resulted in an increase of about 250,000 in the civilian labor

force and employment totals; unemployment levels and rates were essentially unchanged. An explanation of the procedural changes and an indication of the differences appear in "Revisions in the Current Population Survey in January 1978" in the February 1978 issue of *Employment and Earnings*.

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

Beginning in January 1979, the first-stage ratio estimation method was changed in the CPS estimation procedure. Differences between the old and new procedures existed only for metropolitan and nonmetropolitan area estimates, not for the total United States. The reasoning behind the change and an indication of the differences appear in "Revisions in the Current Population Survey in January 1979" in the February 1979 issue of *Employment and Earnings*.

Beginning in January 1982, the second-stage ratio adjustment methodology was changed in the CPS estimation procedure. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in "Revisions in the Current Population Survey Beginning in January 1982" in the February 1982 issue of *Employment and Earnings*. In addition, current population estimates used in the second-stage estimation procedure were derived from information obtained from the 1980 census, rather than the 1970 census. This change caused substantial increases in total population and estimates of persons in all labor force categories. Rates for labor force characteristics, however, remained virtually unchanged. Some 30,000 labor force series were adjusted back to 1970 to avoid major breaks in series. The adjustment procedure used is also described in the February 1982 article cited above. The revisions did not, however, smooth out the breaks in series occurring between 1972 and 1979 that are described above, and data users should make allowances for them in making certain data comparisons.

Beginning in January 1983, the first-stage ratio adjustment methodology was updated to account for results obtained from the 1980 census. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in "Revisions in the Current Population Survey Beginning in January 1983" in the February 1983 issue of *Employment and Earnings*. There were only slight differences between the old and new procedures in estimates of levels for the various labor force characteristics and virtually no differences in estimates of participation rates.

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

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

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

Changes in the occupational and industrial classification system

Beginning in 1971, the comparability of occupational employment data was affected as a result of changes in the occupational classification system for the 1970 census that were introduced into the CPS. Comparability was further affected in December 1971, when a question relating to major activity or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. As a result of these changes, meaningful comparisons of occupational employment levels could not be made between 1971-72 and prior years nor between those 2 years. Unemployment rates were not significantly affected. For a further explanation of the changes in the occupational classification system, see "Revisions in Occupational Classifications for 1971" and "Revisions in the Current Population Survey" in the February 1971 and February 1972 issues, respectively, of *Employment and Earnings*.

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

The 1980 census occupational classification system evolved

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

The industrial classification system used in the 1980 census is based on the 1972 Standard Industrial Classification system (SIC), as modified in 1977. The adoption of the new system had a much less adverse effect on historical comparability than did the new occupational system. The most notable changes from the 1970 system were the transfer of farm equipment stores from "retail" to "wholesale" trade, postal service from "public administration" to "transportation", and some interchange between "professional and related services" and "public administration."

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

Changes in the sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, the number of sample areas and the number of sample persons are increased occasionally. In 1953, the current rotation plan was introduced, in which a sample unit is interviewed for 4 months, leaves the sample for 8 months, and then returns to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a noncontiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated into the design. In October 1978, a coverage improvement sample, composed of approximately 450 sample household units which represented 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates in order to provide coverage of mo-

mobile homes and new construction units that previously had no chance for selection in the CPS sample selected from the 1970 census frame. In January 1980, another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added to the existing sample. A sample reduction of about 6,000 units was implemented in May 1981. Beginning in January 1982, the sample was expanded by 100 households to provide additional coverage in counties added to SMSA's, which were redefined in 1973.

Beginning in 1985, a new State-based CPS sample was selected based on 1980 census information rather than 1970 census information. The selection of new sample areas provided an opportunity to improve the efficiency of the sample design. Sample areas chosen to replace incoming sample areas account for only 10 percent of the national estimate. The new CPS sample has resulted in increased reliability for State estimates with a slightly reduced sample size. Sample households are chosen from 729 sample areas, which represent 1,973 geographic areas in the United States. This current number of sample areas is not completely comparable to the old number of sample areas since many of the sample areas have been redefined. (See pp. 7-10 of the May 1984 issue of *Employment and Earnings*, for an overview of these new definitions and the introduction of the new sample.) A sample reduction of about 4,000 households was implemented in April 1988; they were reinstated during the 8-month period, April-November 1989.

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 Mar. 1989	729	53,200	2,600	11,500
Nov. 1989 to present ³	729	57,400	2,600	11,800

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.

³ The sample was increased incrementally during the 8-month period, April-November 1989.

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

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 $0.11 \times 1.40 = 0.15$ percentage point.

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

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 or teenagers (16 to 19 years)	1.30	.82	.88	.57	.70
Part time	1.40	.74	.88	.46	.60
Unemployment:					
Total	1.40	.76	.88	.50	.65
Part time	1.40	.69	.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 141 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 1988 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 1988 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 in small establishments, the sample design calls for inclu-

Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1988

(In thousands)

Industry	Benchmark	Estimate	Percent difference
Total	103,835	104,161	-0.3
Mining	711	723	-1.7
Construction	4,686	4,787	-2.2
Manufacturing	19,171	19,302	-.7
Transportation and public utilities	5,437	5,473	-.7
Wholesale trade	5,926	6,016	-1.5
Retail trade	18,551	18,612	-.3
Finance, insurance, and real estate	6,594	6,599	-.1
Services	25,103	24,978	.5
Government	17,656	17,671	-.1

sion 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 latest benchmarks and 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. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1988

Industry	Bench- marks (thou- sands)	Sample coverage ¹		
		Number of estab- lish- ments	Employees (thou- sands)	Percent of benchmarks
Total	103,835	262,856	38,922	37
Mining	711	3,361	276	39
Construction	4,686	24,924	917	20
Manufacturing	19,171	49,889	9,483	49
Transportation and public utilities	5,437	214,091	22,482	46
Wholesale trade	5,926	22,810	1,062	18
Retail trade	18,551	49,015	3,704	20
Finance, insurance, and real estate	6,594	19,711	2,126	32
Services	25,103	58,713	5,795	23
Government:				
Federal	2,964	(³)	2,964	100
State	4,151	4,883	3,406	82
Local	10,541	15,459	6,707	64

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 The Interstate Commerce Commission provides a complete count of employment for Class I railroads.

³ 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 5,000 reports covering about 56 percent of employment in Federal establishments.

Reliability

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a link relative technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may accumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table O presents the average percent revisions of the five most recent benchmarks for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for basic estimating cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors, which may be expressed as

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

(In percent)

Industry	Average benchmark revision in estimates of employment ¹	Relative error ²	
		Average weekly hours	Average hourly earnings
Total	0.2	—	—
Total private .....	.3	0.1	0.2
Mining	2.2	1.0	1.3
Construction	1.8	.2	.5
Manufacturing .....	.7	.1	.2
Durable goods .....	.7	.1	.3
Nondurable goods .....	.9	.1	.2
Transportation and public utilities .....	.4	.7	.6
Wholesale trade	1.0	.2	.4
Retail trade .....	.7	.2	.4
Finance, insurance, and real estate .....	.3	.2	.4
Services .....	.3	.4	.6
Government ³ .....	.3	—	—

¹ The average percent revision in employment for the 1984-88 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	88,900	89,500	Nondurable goods—Continued		
Total private	61,300	58,900	Chemicals and allied products ..	2,600	2,800
Goods-producing industries	21,200	19,800	Petroleum and coal products ...	1,200	1,200
Mining	4,400	4,200	Rubber and misc. plastics products	1,600	1,600
Oil and gas extraction	3,800	3,300	Leather and leather products ..	1,700	1,600
Construction	14,400	15,100	Service-producing industries	85,400	85,700
General building contractors	4,900	5,100	Transportation and public utilities ..	14,600	13,000
Manufacturing	18,200	18,300	Transportation	16,600	16,000
Durable goods	13,700	12,300	Communication and public utilities	6,500	6,100
Lumber and wood products	2,200	2,000	Wholesale trade	8,700	7,700
Furniture and fixtures	1,700	1,600	Durable goods	5,800	5,300
Stone, clay, and glass products ..	1,600	1,500	Nondurable goods	5,000	4,400
Primary metal industries	4,300	4,300	Retail trade	38,600	34,400
Blast furnaces and basic steel products	3,300	3,100	General merchandise stores	22,800	20,400
Fabricated metal products	2,400	2,200	Food stores	6,800	6,000
Machinery, except electrical	5,700	6,800	Automotive dealers and service stations	4,200	5,100
Electrical and electronic equipment	4,900	4,900	Eating and drinking places	10,100	9,500
Transportation equipment	7,700	7,000	Finance, insurance, and real estate	8,700	7,600
Motor vehicles and equipment	6,500	6,600	Finance	4,100	3,900
Instruments and related products	2,100	2,200	Insurance	3,700	3,100
Miscellaneous manufacturing	1,800	1,800	Real estate	5,000	4,000
Nondurable goods	8,500	8,400	Services	36,600	34,900
Food and kindred products	5,600	5,600	Business services	11,700	10,700
Tobacco manufactures	1,500	1,400	Health services	10,200	10,000
Textile mill products	1,800	1,700	Government	59,700	53,500
Apparel and other textile products	4,500	4,000	Federal	15,900	11,300
Paper and allied products	1,600	1,400	State	22,000	20,000
Printing and publishing	2,100	2,000	Local	34,600	34,500

NOTE: Data are based on differences from December 1983 through December 1988.

Productivity Data (Tables C-9 through C-11)

COLLECTION

Productivity data are compiled by the Bureau of Labor Statistics from establishment and household survey labor input data and from measures of compensation and output supplied by the U.S. Department of Commerce and the Federal Reserve Board.

CONCEPTS

Hours of wage and salary workers in nonagricultural establishments (table C-9) refer to hours paid for all employees—production workers, nonsupervisory workers, and salaried workers. For productivity and cost measures (tables C-10, 11), hours of all persons include hours of employees, proprietors, and unpaid family workers. Labor input is measured by hours at the work site.

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 (productivity) measure changes in the volume of goods and services produced per hour at work.

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 by 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, capital consump-

tion allowances, interest, rental income of persons, and indirect taxes per unit of output. They are computed by subtracting compensation of all persons from the current-dollar gross product originating in the sector 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 and capital consumption 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 general government, 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. All measures are seasonally adjusted.

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 for determining eligibility of an area for benefits under Federal programs such as the Job Training and Partnership Act, the Economic Dislocation and Worker Adjustment Assistance Act, and the Urban Development Action Grant program.

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 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, DC 20402. The report "Unemployment in States and Local Areas" is published monthly through GPO and is available in microfiche form only, on a subscription basis.

ESTIMATING METHODS

Monthly labor force, employment, and unemployment estimates are prepared for the 50 States, the District of Columbia, and over 2,600 labor market areas. The estimation methods are described below for States (and the District of Columbia) and for sub-State areas. A more detailed description of the estimation procedure is contained in the BLS document, "Manual for Developing Local Area Unemployment Statistics."

Estimates for States

Current monthly estimates. The civilian labor force and unemployment estimates for the 11 largest States—California, Florida, Illinois, Massachusetts, Michigan, New Jersey, New York, North Carolina, Ohio, Pennsylvania, and Texas—are sufficiently reliable to be taken directly from the Current Population Survey (CPS) on a monthly basis. These are termed "direct-use States." For a description of the CPS concepts, see "Household Data," above.

For the 39 smaller States and the District of Columbia, which do not use the CPS directly each month, regression models (sets of equations) are used to develop employment and unemployment estimates. These, then, are the "non-direct-use" States. The regression techniques are based on historical and current relationships found within each State's economy as reflected in the different sources of data that are available for each State—the CPS, the Current Employment Statistics (CES) survey, and the unemployment insurance (UI) system. When the estimation procedures were introduced in 1989, over 10 years of data were used to develop the equations for each State. While all the State models have important variables in common, they differ somewhat from one another so as to better reflect individual State characteristics.

Two models—one for employment and one for the unemployment rate—are used for each State. The unemployment rate, rather than the unemployment level, is modeled, primarily because the rate is usually more meaningful for economic analysis.

The employment models use the CES estimates of nonfarm wage and salary jobs and also include data for employed persons not covered or only partially covered by the CES survey. Typically, these are agricultural workers, the self-employed, unpaid family workers, and private household workers.

The unemployment rate models also include different types of data. Data for UI claimants (without earnings due to employment) are used to represent most of the experienced unemployed. The models also include an employment-to-population ratio which reflects both the business cycle and the experienced unemployed not covered by the UI claims data. New entrants and reentrants into the labor force are also reflected in the models. For some States, the models include variables which reflect seasonal factors not reflected in the other data used, such as the large increase in the labor force at the end of the school year.

In both the employment and unemployment rate models,

an important feature is the use of a technique that allows the equations to adjust automatically to structural changes that occur. The models are termed "variable coefficient models" because they include a built-in tuning mechanism, known as the Kalman Filter, which revises a model's coefficients when the new data that become available each month indicate that changes in the data relationships have taken place. Once the estimates are developed from the models, the unemployment level and labor force estimates are calculated.

Benchmark correction procedures. Once each year, monthly estimates for the 39 non-direct-use States and the District of Columbia are adjusted, or benchmarked, by BLS to the annual average CPS estimates. The benchmarking technique employs a procedure (called the Denton method) which adjusts the annual average of the models to equal the CPS annual average, while preserving, as much as possible, the original monthly seasonal pattern of the model estimates.

In the 11 direct-use States, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal the CPS annual averages.

Estimates for sub-State areas

Monthly labor force and employment estimates for two large sub-state areas—New York City and the Los Angeles-Long Beach metropolitan area—are obtained directly from the CPS. Estimates for all other sub-state areas, more than 2,600 labor market areas (LMA's), are prepared through indirect estimation techniques, described below.

Preliminary estimate—employment. The total civilian employment estimates are based on CES data. These "place-of-work" estimates 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 several categories of employment on the basis of employment relationships at the time of the 1980 decennial census. These factors are applied to the CES estimates for the current period to obtain adjusted employment estimates, to which are added estimates for employment not represented in the CES—agriculture, nonagricultural self-employed and unpaid family workers, and private household workers.

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.

Sub-State adjustment for additivity. Estimates of employment and unemployment are prepared for the State and LMA's within the State. The LMA estimates geographically exhaust the entire State. Thus, a proportional adjustment must be applied to all sub-State LMA estimates to ensure that they add to the independently estimated State totals for employment and unemployment.

Benchmark correction. At the end of each year, sub-State estimates are revised. The revisions incorporate any changes in the inputs, such as revisions in the CES-based employment figures, corrections in claims counts, and updated historical

relationships. The corrected estimates are then readjusted to add to the revised (benchmarked) State estimates of employment and unemployment.

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 monthly in *Employment and Earnings*.

Since January 1980, national labor force data have been seasonally adjusted with a procedure called *X-11 ARIMA* (Auto-Regressive Integrated Moving Average), which was developed at Statistics Canada as an extension of the 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.

At the beginning of each calendar year, projected seasonal adjustment factors are calculated for use during the January–June period. In July of each year, BLS calculates and publishes in *Employment and Earnings* projected 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 only 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 a 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 procedure 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.

Since the early 1980's, the BLS has also used the X-11 ARIMA procedure to seasonally adjust establishment-based employment, hours, and earnings data. The X-11 ARIMA program has been run once each year after benchmarking and seasonal adjustment factors have been projected and published for 12 months ahead (April–March). Beginning in June 1989, with the introduction of the March 1988 benchmarks, the Bureau introduced a modification to this procedure to parallel that used in seasonally adjusting household survey data. Projected seasonal adjustment factors are calculated and published twice a year. Revisions of historical data will continue to be made once a year, coincident with benchmark revisions.

All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. 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, and major industry divisions, 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, however, are used in the aggregation to broader level seasonally adjusted series.

Seasonal adjustment factors for Federal Government

employment are derived from unadjusted data which include Christmas temporary workers employed by the Postal Service. The number of temporary census takers for the 1980 decennial census, however, are removed prior to the calculation of seasonal adjustment factors.

BLS has developed an extension of X-11 ARIMA to allow it to adjust more adequately for the effects of the presence or absence of religious holidays in the April survey reference period and of Labor Day in the September reference period. This extension was applied for the first time at the end of 1989 to three persons-at-work labor force series which tested as having significant and well-defined effects in their April data associated with the timing of Easter. This extension was also used for the seasonal adjustment of many of the establishment-based series on average weekly hours and manufacturing overtime hours, starting with the computation of the projected factors for the period beginning in April 1990.

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