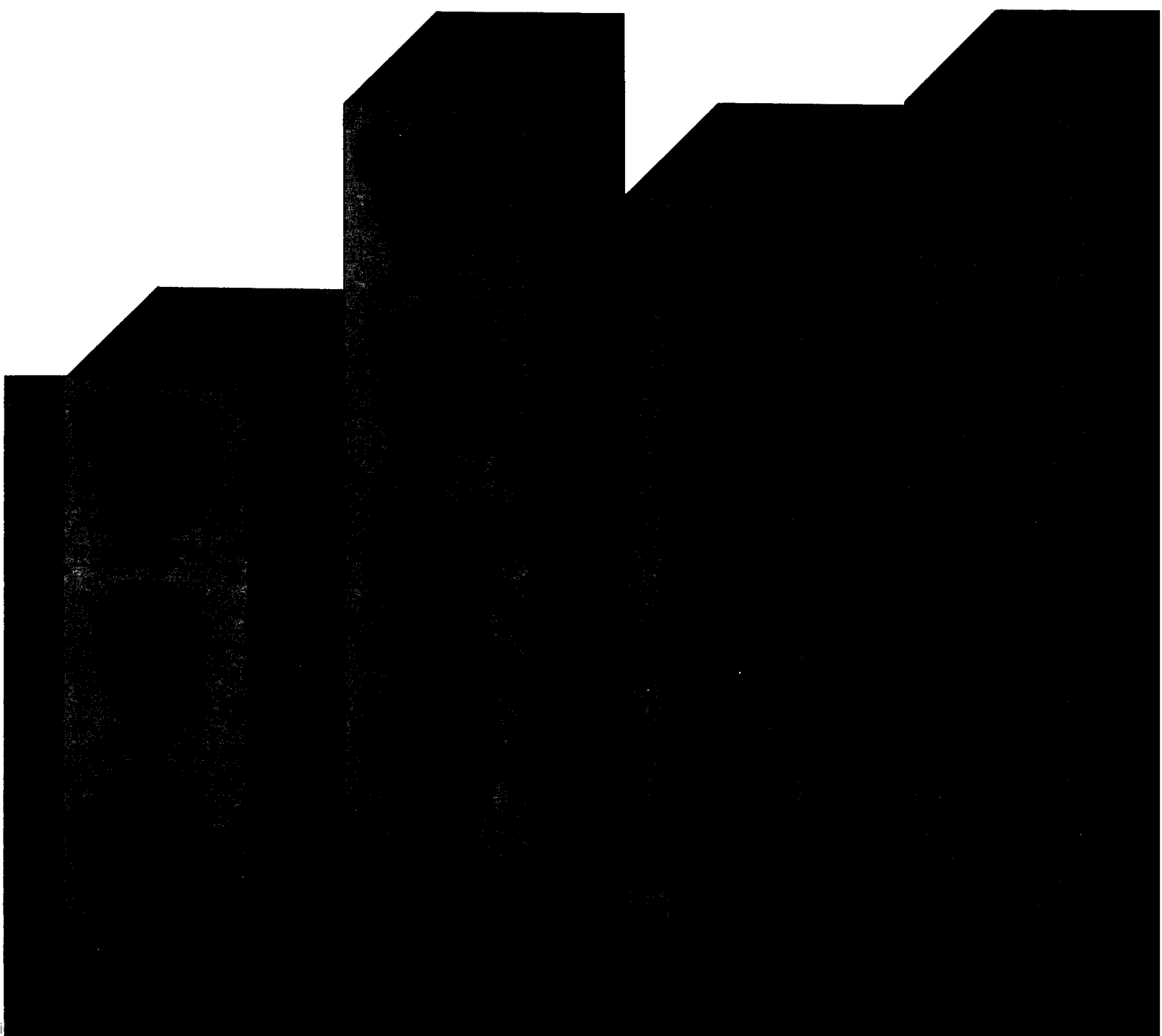


## EMPLOYMENT AND EARNINGS

June 1987

U.S. Department of Labor  
Bureau of Labor Statistics

In this issue:  
Establishment data  
adjusted to new  
benchmarks





## U.S. DEPARTMENT OF LABOR

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## Calendar of Features

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

### Household data

Annual averages	Jan.
Union affiliation	Jan.
Revised seasonally adjusted series	Jan., Feb.

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

Jan., Apr., July, Oct.

### Establishment data

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

### State and area labor force data

Annual averages	May
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<sup>1</sup> The latest supplement was published in June 1986.

# Employment and Earnings

Vol. 34 No. 6 June 1987

Editors: Gloria Peterson Green, Rosalie K. Epstein

## Editors' Note

With this issue, national estimates of employment, hours, and earnings from the monthly survey of establishments have been revised to reflect March 1986 benchmarks (comprehensive counts of employment) and updated seasonal adjustment factors based on the experience through March 1987. As a result, unadjusted series beginning April 1985 and seasonally adjusted series beginning January 1982 are not comparable to those previously published.

The article beginning on page 6 discusses the effects of the revisions, the seasonal adjustment methodology, and new seasonal adjustment factors to be used in the ensuing 12-month period. Revised current data appear in tables B-1 through B-7 and C-1 through C-7. Revised historical data will be published in a July 1987 supplement to *Employment and Earnings*.

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# Employment and Unemployment Developments, May 1987

Employment rose in May and the unemployment rate was unchanged. Following a marked decline in April, the overall unemployment rate remained at 6.2 percent and the civilian worker rate at 6.3 percent. Both were nearly a percentage point lower than a year earlier.

Total civilian employment—as estimated through the monthly survey of households—showed an increase of about 600,000, seasonally adjusted, whereas nonagricultural payroll employment—as measured by the monthly survey of establishments—rose by 125,000.

## Unemployment

The civilian unemployment rate was unchanged at 6.3 percent in May, and the number of persons unemployed remained at 7.5 million, about 800,000 less than a year earlier. The unemployment rates for adult men (5.5 percent) and women (5.4 percent), while unchanged over the month, have dropped substantially during the last year. The unemployment rates for teenagers (17.7 percent), whites (5.3 percent), and Hispanics (8.7 percent) were little changed, although the Hispanic rate has fallen 2 percentage points so far this year. The jobless rate for blacks (13.8 percent) returned to its March level after falling in April. (See tables A-33 and A-34.)

Among the unemployed, there was a small increase in May in the number seeking their first jobs. In terms of duration, there was also a small increase in the number of persons unemployed for less than 5 weeks. The median duration of unemployment declined to 6.5 weeks. (See tables A-40 and A-41.)

## Civilian employment and the labor force

Civilian employment rose to 112.4 million, a seasonally adjusted gain of about 600,000. Most of the increase was among adults, particularly women. The employment-population ratio—the proportion of the working age population who held jobs—increased by three-tenths of a percentage point. (See table A-33.)

The civilian labor force also showed a sharp increase (660,000), following 2 months of little change. The labor force participation rate was up three-tenths of a percentage point to 65.7 percent.

## Industry payroll employment

The data from the establishment survey showed a relatively small job gain for May, bringing nonagricultural payroll employment to a level of 101.7 million, after seasonal adjustment. This level reflects the results of the annual benchmark adjustment of these data, which has produced a downward revision.

Gains in May were essentially limited to the services industry and in finance, insurance, and real estate. Continuing the strong growth in evidence during the current expansion, employment in the services industry rose by 95,000 in May. About half of the increase was in business and health services. Finance, insurance, and real estate also continued to expand, with an over-the-month employment gain of 15,000. Employment in both wholesale and retail trade was unchanged after seasonal adjustment. (See table B-4.)

In the goods-producing sector, construction employment rose a little less than expected for this time of the year and, after seasonal adjustment, was down slightly from the April level. Mining and its oil and gas extraction component have shown small increases over the last few months. Manufacturing employment remained unchanged in May, as movements among individual industries were small and generally offsetting.

## Weekly hours

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls edged up 0.1 hour to 34.8 hours, seasonally adjusted, returning to the March level. In manufacturing, the workweek rose by 0.4 hour to 41.0, rebounding from the previous month's dip, which had stemmed from religious observances in the reference week. Factory overtime rose by 0.3 hour to 3.8, the highest level since April 1978. (See table C-5.)

Largely as a result of the increase in hours of work, the index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls rose by 0.4 percent to 120.1 (1977=100), seasonally adjusted. This was 2.5 percent higher than the May 1986 index. (See table C-6.)

## Hourly and weekly earnings

Average hourly earnings rose by 0.4 percent in May, while average weekly earnings rose 0.7 percent, seasonally adjusted.

Prior to seasonal adjustment, hourly earnings increased by 2 cents to \$8.92, and weekly earnings were up \$2.48 to \$310.42. (See tables C-1 and C-7.)

### The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 172.6 (1977=100) in May, seasonally adjusted, essentially unchanged from

April. For the 12 months ended in May, the increase was 2.2 percent. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements—fluctuations in manufacturing overtime and interindustry employment shifts. In dollars of constant purchasing power, the HEI decreased 1.3 percent during the 12-month period ended in April. (See table C-7.)

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
June	July 2	September	October 2
July	August 7	October	November 6
August	September 4	November	December 4

# BLS Establishment Estimates Revised to March 1986 Benchmarks

\*Fred R. Cronkhite

With the release of data for May 1987, the Bureau of Labor Statistics introduced its annual revision of national estimates of employment, hours, and earnings from the monthly sample survey of nonagricultural establishments. Each year, the sample estimates are adjusted to new benchmarks—comprehensive figures of employment based primarily on unemployment insurance reports filed by employers with the State employment security agencies.

The current revisions are based on March 1986 benchmarks and affect unadjusted series from April 1985 forward. As is the usual practice with the introduction of new benchmarks, the Bureau has also revised the seasonally adjusted series for the previous 5-year period and has introduced new seasonal adjustment factors to be used for the coming year.

## Effect of the current benchmark adjustment

The March 1986 benchmark level for total nonagricultural employment—98 million—was 467,000, or 0.5 percent, below the corresponding sample-based estimate, resulting in the largest benchmark revision since 1979. Downward revisions were registered in all major industry divisions, except services, with the largest absolute changes occurring in manufacturing and wholesale and retail trade. Table 1 provides a summary of the March 1986 revisions by major division, and table 2 provides a comparison of the 1986 revisions on a percentage basis with those of recent years.

The extent of the monthly revision grew to over 700,000 by February 1987, reflecting, in addition to the benchmark adjustment, a modification to the procedure for deriving revised monthly estimates subsequent to the benchmark. The nature of these improvements in postbenchmark estimation is described in the section on benchmark adjustment procedure. Table 3 shows this increased downward revision between 1986 and 1987 through a comparison of seasonally adjusted monthly data as previously published and as revised.

Monthly estimates of employment, hours, and earnings are published in considerable industry detail. Based upon the Standard Industrial Classification (SIC) system, estimates are prepared either at the industry level (4-digit SIC) or at the industry group level (3-digit SIC) for most industries. Within the 248 3-digit industry groups for which employment es-

timates are published, 70 were revised by 4 percent or more, and nearly one-half by 3 percent or more. Of the 68 published major private industry groups (2-digit SIC), 19 were revised by 2 percent or more, and 37 by 1.5 percent or more. As has generally been the case in the past, the smallest industries in terms of employment tended to have the largest percentage revisions (table 4).

The March 1986 benchmark levels compared with the sample-based estimates for major industry and manufacturing groups appear in table 5. Manufacturing industries were revised downward by an average of 1.1 percent, about the same as last year. Seventeen of the twenty major groups in manufacturing were revised downward, a slight increase from last year. Wholesale trade industries were revised downward by an average of 1.9 percent; durable goods industries in wholesale trade were revised downward by 2.8 percent.

## Effect of revisions on other series

There are no benchmark employment levels for the series on women workers, or production or nonsupervisory workers. These series are revised by applying the ratios derived from the sample to the revised all-employees figures. Revisions at the basic cell level are then added to become the summary level revisions.

Average weekly hours and average hourly earnings are estimated directly from reported figures at the estimating cell level and are not benchmarked. However, broader industry groups of hours and earnings series require a weighting mechanism to yield meaningful averages. The production or nonsupervisory worker employment estimates for the basic cells are used as weights for the hours and earnings estimates for broader industry groupings. Adjustments of the all-employee estimates to new benchmarks may alter the weights, which, in turn, may change the estimates for hours and earnings of production and nonsupervisory workers at higher levels of aggregation.

Generally, new employment benchmarks have little impact on hours and earnings estimates for major groupings. (See table 6.) To influence the hours and earnings estimates of a broader group, employment changes have to be relatively large and must affect industries which have substantially different hours or earnings averages than the other

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industries in their group. Occasionally, corrections of errors in the reported payroll data for individual establishments may also change the averages of selected industries.

### Benchmark adjustment procedure

The annual benchmark adjustment procedure serves as a quality control process by providing a more accurate measure of current employment levels and, as a consequence, a more accurate perspective on short-term trends. The benchmark levels are derived primarily from summations of the mandatory unemployment insurance (UI) contribution reports filed with the State employment security agencies by all employers covered by the UI laws. The figures compiled from these reports are adjusted when necessary to reflect discrepancies in industry coding between the establishments in the survey and the corresponding establishments in the population. The final benchmark levels are determined by adding to the adjusted UI-based figures estimates of employment in those industries that are not fully covered by UI laws. For the private sector, these are primarily in the transportation and service industries.

Normally, new benchmarks are determined for March of

each year for the most detailed industrial classification levels at which estimates are made. The time required to complete the benchmark process—from collection of the data to publication of the results—is usually about 15 months. Revised employment estimates for the “interbenchmark” period are usually derived by adding to each of the monthly estimates a fraction of the difference between the actual March benchmark level and the previously published estimate for that month. In the present instance, working backwards in time, approximately 11/12 of the March 1986 difference was added to the February 1986 estimates, 10/12 to the January 1986 estimate, and so forth, so that the March difference was “wedged over the 12-month interbenchmark period.

Occasionally, in some industries, the monthly sample-based estimates deviate significantly from the expected seasonal patterns of the underlying population and hence produce erroneous links. Since application of the normal linear wedge technique will not correct for this error, the monthly sample-based estimates for these industries are replaced with monthly figures derived from the population of establishments for all months in the interbenchmark period.

**Table 1. Differences between nonagricultural employment benchmarks and estimates by industry, March 1986**

(Number in thousands)

Industry	Benchmark	Estimate	Difference	
			Amount	Percent
Total . . . . .	98,150	98,617	-467	-0.5
Total private . . . . .	81,204	81,604	-400	-.5
Mining . . . . .	832	842	-10	-1.2
Construction . . . . .	4,415	4,441	-26	-.6
Manufacturing . . . . .	18,945	19,148	-203	-1.1
Transportation and public utilities . . . . .	5,200	5,215	-15	-.3
Wholesale trade . . . . .	5,695	5,803	-108	-1.9
Retail trade . . . . .	17,327	17,418	-91	-.5
Finance, insurance, and real estate . . . . .	6,140	6,144	-4	-.1
Services . . . . .	22,650	22,593	57	.3
Government . . . . .	16,946	17,013	-67	-.4

**Table 2. Percent differences between nonagricultural employment benchmarks and estimates by industry, March 1979-86**

Industry	1979	1980	1981	1982	1983	1984	1985	1986
Total . . . . .	0.5	-0.1	-0.4	-0.1	( <sup>1</sup> )	0.4	( <sup>1</sup> )	-0.5
Mining . . . . .	.2	-.6	2.1	2.2	-5.4	-1.6	-3.1	-1.2
Construction . . . . .	-3.2	-1.5	-2.9	.2	.5	3.1	1.4	-.6
Manufacturing . . . . .	.4	-.3	-.4	( <sup>1</sup> )	-1.2	-.9	-.5	-1.1
Transportation and public utilities . . . . .	-.8	-.3	.1	.4	.2	.2	-1.0	-.3
Trade . . . . .	.6	-.8	-1.0	-1.2	.9	1.3	-.3	-.9
Finance, insurance, and real estate . . . . .	.1	.1	-.5	-.2	( <sup>1</sup> )	.4	.5	-.1
Services . . . . .	.5	.9	.3	.3	-.1	.4	.1	.3
Government . . . . .	1.9	.5	-.2	.1	.7	.1	.8	-.4

<sup>1</sup> Less than 0.05 percent

**Table 3. Differences in seasonally adjusted levels and over-the-month changes, total nonagricultural employment, January 1986-February 1987**

(In thousands)

Month	Levels			Over-the-month changes	
	As revised	As previously published	Difference	As revised	As previously published
1986:					
January . . . . .	98,776	99,296	-520	118	386
February . . . . .	98,914	99,429	-515	138	133
<b>March . . . . .</b>	<b>99,013</b>	<b>99,484</b>	<b>-471</b>	<b>99</b>	<b>55</b>
April . . . . .	99,252	99,783	-531	239	299
May . . . . .	99,389	99,918	-529	137	135
June . . . . .	99,323	99,843	-520	-66	-75
July . . . . .	99,601	100,105	-504	278	262
August . . . . .	99,772	100,283	-511	171	178
September . . . . .	100,039	100,560	-521	267	277
October . . . . .	100,209	100,826	-617	170	266
November . . . . .	100,415	101,068	-653	206	242
December . . . . .	100,567	101,322	-755	152	254
1987:					
January . . . . .	100,919	101,626	-707	352	304
<b>February . . . . .</b>	<b>101,150</b>	<b>101,854</b>	<b>-704</b>	<b>231</b>	<b>228</b>

**Table 4. Distribution of published 3-digit SIC industries by size of industry and percent difference between employment benchmarks and estimates, March 1986**

Percent difference	Total number of industries	Size of industry (number of employees)			
		Under 50,000	50,000 to 99,999	100,000 to 199,999	200,000 and over
Total . . . . .	248	36	52	66	94
0-0.9 . . . . .	63	4	10	16	33
1.0-2.9 . . . . .	102	12	21	28	41
3.0-4.9 . . . . .	56	11	13	16	16
5.0 and over . . . . .	27	9	8	6	4

This year, revised estimates for the "postbenchmark" period were derived using a different procedure than in past years. Formerly, the sample-based monthly employment change ratios, or links, that were used to extrapolate the old benchmark levels were also used to extrapolate the new benchmark levels. For the current postbenchmark period, April 1986 to March 1987, the sample reporters were re-assigned, where necessary, into size groups based on their March 1986 employment levels. New links were derived using the resized sample, including late reports. Such resizing of the sample maintains correspondence in establishment size between the benchmark employment levels being extrapolated and the sample used to derive the new monthly extrapolation links. The bias adjustment factors originally used during this period were also applied to the revised monthly estimates.

## Why estimates differ from benchmarks

Differences between benchmarks and estimates result from both sampling and nonsampling error. Sampling error occurs any time a sample is used to make inferences about a population. As with any sample-based estimates, a certain amount of error is to be expected in the estimation of employment, hours, and earnings from the establishment survey. A complete monthly count of all establishments would provide the most accurate levels of employment by detailed industry. However, given the more than 5 million employers in the population, such monthly figures would be prohibitively expensive and too time consuming to compile. The current sample of approximately 290,000 establishments provides estimates at a moderate cost within a month following the reference period. Additionally, sources of nonsampling error can be more easily controlled in a sample.

Both the benchmark levels and the sample-based estimates are subject to several sources of nonsampling error. These errors, along with the sampling error in the sample-based estimates, cause the estimates to differ from the benchmark. Major sources of these nonsampling errors are: (1) an inability to measure employment in new firms from the time of their inception, due to the time lag between the creation of new firms and their inclusion in the sample; (2) procedures for handling changes in industrial classification; (3) the quality of the various source data used to derive the benchmark; (4) an inability to completely cover all firms in the target population; and (5) other errors in coverage, response, processing, and collection.

*Bias adjustment factors.* In order to compensate for the inability of the survey to capture the entry of new firms, and for other biases, the Bureau calculates monthly bias adjustment factors. First, both 3-year and 5-year averages of the relative differences between the benchmark levels and sample-based estimates for March are computed for most 3-digit industries. These "average bias adjustment factors" are based on the latest benchmark levels. Second, the average factors are updated during the year to reflect current rates of employment change for the same industries. The updated factors are then applied to the sample-based estimates to produce the monthly published estimates.

A single-equation, cross-section statistical model is specified for estimating industry-specific parameters that are used to update the average factors. The model relates average relative bias to average employment change, over either a 3-year or 5-year period, and percent of total employment in the sample for the same group of 3-digit industries. The updated factor for each of the industries is applied to all estimating cells—usually size groups—within that industry. New industry-specific parameters are estimated each year when the new benchmark levels become available.

*Changes in industrial classification.* Establishments are classified by industry according to major product or activity.

**Table 5. Differences between nonagricultural employment benchmarks and estimates by major industry and manufacturing group, March 1986**

(In thousands)

Industry	Benchmark	Estimate	Difference	
			Amount	Percent
Total . . . . .	98,150	98,617	-467	-0.5
Total private . . . . .	81,204	81,604	-400	-0.5
Goods-producing . . . . .	24,192	24,431	-239	-1.0
Mining . . . . .	832	842	-10	-1.2
Oil and gas extraction . . . . .	507	514	-7	-1.4
Construction . . . . .	4,415	4,441	-26	-6
General building contractors . . . . .	1,196	1,201	-5	-4
Manufacturing . . . . .	18,945	19,148	-203	-1.1
Durable goods . . . . .	11,277	11,384	-107	-9
Lumber and wood products . . . . .	682	696	-14	-2.1
Furniture and fixtures . . . . .	496	495	1	.2
Stone, clay, and glass products . . . . .	571	579	-8	-1.4
Primary metal industries . . . . .	776	791	-15	-1.9
Blast furnaces and basic steel products . . . . .	288	295	-7	-2.5
Fabricated metal products . . . . .	1,437	1,444	-7	-5
Machinery, except electrical . . . . .	2,099	2,122	-24	-1.1
Electrical and electronic equipment . . . . .	2,124	2,175	-51	-2.4
Transportation equipment . . . . .	2,019	1,991	27	1.4
Motor vehicles and equipment . . . . .	880	858	23	2.6
Instruments and related products . . . . .	714	724	-11	-1.5
Miscellaneous manufacturing . . . . .	361	366	-5	-1.4
Nondurable goods . . . . .	7,668	7,764	-96	-1.3
Food and kindred products . . . . .	1,551	1,573	-22	-1.4
Tobacco manufactures . . . . .	59	61	-2	-3.7
Textile mill products . . . . .	699	703	-4	-6
Apparel and other textile products . . . . .	1,107	1,120	-13	-1.2
Paper and allied products . . . . .	669	685	-16	-2.3
Printing and publishing . . . . .	1,447	1,471	-24	-1.7
Chemicals and allied products . . . . .	1,025	1,030	-5	-5
Petroleum and coal products . . . . .	170	164	6	3.4
Rubber and miscellaneous plastics products . . . . .	788	801	-13	-1.6
Leather and leather products . . . . .	155	157	-2	-1.6
Service-producing . . . . .	73,958	74,186	-228	-3
Transportation and public utilities . . . . .	5,200	5,215	-15	-3
Transportation . . . . .	2,988	3,001	-13	-4
Communication and public utilities . . . . .	2,212	2,214	-2	-1
Wholesale trade . . . . .	5,695	5,803	-108	-1.9
Durable goods . . . . .	3,370	3,466	-96	-2.8
Nondurable goods . . . . .	2,325	2,337	-12	-5
Retail trade . . . . .	17,327	17,418	-91	-5
General merchandise stores . . . . .	2,258	2,246	12	.5
Food stores . . . . .	2,814	2,806	8	.3
Automotive dealers and service stations . . . . .	1,908	1,918	-10	-5
Eating and drinking places . . . . .	5,673	5,692	-19	-3
Finance, insurance, and real estate . . . . .	6,140	6,144	-4	-1
Finance . . . . .	3,082	3,089	-7	-2
Insurance . . . . .	1,908	1,898	10	.5
Real estate . . . . .	1,150	1,157	-7	-6
Services <sup>1</sup> . . . . .	22,650	22,593	57	.3
Business services . . . . .	4,645	4,651	-6	-1
Health services . . . . .	6,450	6,484	-34	-5
Government . . . . .	16,946	17,013	-67	-4
Federal . . . . .	2,908	2,908	0	.0
State . . . . .	3,976	4,029	-53	-1.3
Local . . . . .	10,062	10,076	-14	-1

<sup>1</sup> Includes other industries not shown separately.

**Table 6. Hours and earnings estimates based on revised (March 1986) benchmarks and previous (March 1985) benchmarks, selected industries, March 1986**

Industry	Average weekly hours			Average hourly earnings		
	Revised estimate	Previous estimate	Difference	Revised estimate	Previous estimate	Difference
Total private . . . . .	34.7	34.7	0	\$8.74	\$8.73	\$0.01
Mining . . . . .	42.3	42.3	0	12.33	12.35	-.02
Construction . . . . .	36.5	36.4	0.1	12.26	12.22	.04
Manufacturing . . . . .	40.7	40.7	0	9.73	9.72	.01
Durable goods . . . . .	41.4	41.4	0	10.31	10.30	.01
Lumber and wood products . . . . .	40.0	40.0	0	8.32	8.33	-.01
Furniture and fixtures . . . . .	39.2	39.2	0	7.36	7.35	.01
Stone, clay, and glass products . . . . .	41.5	41.5	0	9.93	9.93	0
Primary metal industries . . . . .	42.1	42.1	0	11.95	11.99	-.04
Fabricated metal products . . . . .	41.4	41.4	0	9.90	9.88	.02
Machinery, except electrical . . . . .	41.8	41.8	0	10.60	10.58	.02
Electrical and electronic equipment . . . . .	41.0	41.1	-.1	9.60	9.62	-.02
Transportation equipment . . . . .	42.8	42.8	0	12.85	12.90	-.05
Instruments and related products . . . . .	41.4	41.4	0	9.42	9.41	.01
Miscellaneous manufacturing . . . . .	39.9	39.9	0	7.50	7.51	-.01
Nondurable goods . . . . .	39.7	39.7	0	8.89	8.88	.01
Food and kindred products . . . . .	39.4	39.4	0	8.74	8.74	0
Tobacco manufactures . . . . .	37.5	37.5	0	12.83	12.76	.07
Textile mill products . . . . .	40.6	40.6	0	6.85	6.86	-.01
Apparel and other textile products . . . . .	36.6	36.5	.1	5.82	5.80	.02
Paper and allied products . . . . .	43.4	43.3	.1	11.06	11.03	.03
Printing and publishing . . . . .	38.1	38.1	0	9.90	9.90	0
Chemicals and allied products . . . . .	42.0	42.0	0	11.80	11.78	.02
Petroleum and coal products . . . . .	43.7	43.7	0	14.21	14.22	-.01
Rubber and miscellaneous plastics products . . . . .	41.4	41.3	.1	8.72	8.72	0
Leather and leather products . . . . .	36.3	36.3	0	5.87	5.86	.01
Transportation and public utilities . . . . .	39.4	39.4	0	11.62	11.62	0
Wholesale trade . . . . .	38.2	38.3	-.1	9.33	9.33	0
Retail trade . . . . .	28.9	28.9	0	6.03	6.03	0
Finance, insurance, and real estate . . . . .	36.7	36.7	0	8.33	8.30	.03
Services . . . . .	32.5	32.4	.1	8.18	8.18	0

Differences in the classification of establishments between the population and the sample can be an important source of nonsampling error. As part of a continuing quality maintenance program, approximately one-third of all employers are requested to refile industry classification information each year. This information can result in changes in industry classification. In addition, industry codes of establishments in the sample are reviewed each year and are reconciled to the corresponding codes of the establishment in the population file. Since these changes are introduced once a year, at the time of the revision to new benchmarks, they contribute to benchmark adjustment. At the more detailed industry levels, particularly within manufacturing, changes in classification can be an important cause of benchmark adjustments. As the estimates are aggregated to higher level industry groupings, these classification changes cancel out so that the net difference is zero for total nonagricultural employment.

**Benchmark source material.** The principal source of benchmark data for private industries is the ES-202 report, which contains employment data reported to State employment security agencies by employers covered by State UI laws. UI coverage is now extended to approximately 98 percent of

employees in the total nonagricultural sector and 99 percent of those in the private nonagricultural sector. Employment counts for the executive, legislative, and judicial branches of the Federal Government are derived from official summaries prepared by the U.S. Office of Personnel Management (OPM). These summaries are complete counts of Federal workers and are not usually subject to revision.<sup>1</sup> The official OPM summaries do not provide detail on Federal employment by industry, such as hospitals, on a current monthly basis. These are estimated by BLS from a sample of Federal establishments.

BLS uses several sources to obtain employment counts for the remaining industries partially covered or exempt from mandatory UI coverage. Data on employees covered under Social Security laws, published by the Bureau of the Census in *County Business Patterns*, are used to augment UI data for nonoffice insurance sales workers, or to derive benchmark figures for religious organizations, private schools, and hospitals. Benchmarks for State and local government hospi-

<sup>1</sup> Employees of the Central Intelligence Agency, the National Security Agency, and those of the Department of Defense paid from nonappropriated funds are not included in the OPM summaries or these series and thus are not counted.

tals and educational institutions are based on the Annual Survey of Governments conducted by the Bureau of the Census. Benchmark data for employees of church sponsored schools are obtained through State agency surveys. Data for interstate railroads are obtained from the Interstate Commerce Commission.

The Bureau's reporting sample is an important source of information for correcting errors in summary benchmark data derived from employers' UI records. Since sample reports are current and are reviewed monthly, reporting errors that are detected and corrected in the sample reports can also be used to correct the corresponding summary UI-based reports.

### Revisions of seasonally adjusted data

Most economic time series display a regular seasonal movement, which can be estimated on the basis of past experience. By eliminating that part of the change which can be ascribed to usual seasonal variation, it is possible to observe the underlying cyclical and other systematic movements in the series.

Each year, employment, hours, and earnings data reflecting the new benchmark are used to calculate updated seasonal adjustment factors. The Bureau uses the X-11 ARIMA (Auto-Regressive Integrated Moving Average) seasonal adjustment methodology, developed by Statistics Canada.<sup>2</sup> X-11 ARIMA is an adaptation of the standard ratio-to-moving average method, which provides for "moving" adjustment factors to take account of changing seasonal patterns.

The ARIMA option is used to project the unadjusted data forward for 1 year prior to seasonally adjusting the series. The use of ARIMA projections lessens the need for revisions of historical data in future seasonal adjustments. ARIMA projections are not used in series where the projections do not meet test requirements.<sup>3</sup>

Seasonal adjustment factors are derived from a decomposition of historical unadjusted time series into seasonal, cyclical, and irregular components. Unusual events reflected in these historical data will distort normal seasonal pat-

<sup>2</sup> A detailed description of the procedure appears in *The X-11 ARIMA Seasonal Adjustment Method* by Estella Bee Dagum, Statistics Canada Catalogue No. 12-564E, January 1983.

<sup>3</sup> The series so affected are identified in tables 8 through 13.

terns and thus produce less reliable seasonal factors. The X-11 ARIMA methodology allows for the removal of these unusual variations prior to the calculation of the seasonal adjustment factors. Since major strikes tend to distort normal seasonal patterns, the effects of strikes are eliminated from employment series prior to seasonal adjustment. The Federal Government series have also been adjusted to remove the effect of the temporary hiring of census takers during the 1980 census. The hours series in the textile and apparel industries were also adjusted to eliminate the effects of weather-related plant shutdowns in January 1982. The seasonal factors calculated in this way are then applied to the modified unadjusted series to produce a seasonally adjusted time series.

The seasonal adjustment factors that will be used for the period April 1987 through March 1988 for all published series are shown in tables 8 through 14. Seasonally adjusted data are not published for a small number of series characterized by small seasonal components relative to their trend-cycle and/or irregular components. These series are identified in tables 11, 13, and 14; they are used, however, in aggregating to broader seasonally adjusted levels.

### Publication of revised data

Data for detailed industry categories of employment, hours, and earnings will be presented in a supplement to *Employment and Earnings*. It will contain all of the historical data revised as a result of this benchmark and updated seasonal adjustment factors, that is, unadjusted data for April 1985 through February 1987 and seasonally adjusted data for January 1982 through February 1987. In addition, seasonally adjusted data from 1980, and unadjusted data from 1983, which were published in last year's supplement, will be republished in the 1987 supplement. Data for earlier time periods can be found in *Employment, Hours, and Earnings, United States, 1909-84* (BLS Bulletin 1312-12), issued in 1985.

Employment estimates are published monthly in this publication for most of the significant nonagricultural industries. Those industries for which monthly data are not published are either too small or are not represented by a sufficient sample. Table 7 contains the March 1986 benchmark figures for many of these industries.

**Table 7. Employment benchmarks for industries not published monthly, March 1979-86**

(In thousands)

Industry	1972 SIC Code	1979	1980	1981	1982	1983	1984	1985	1986
<b>Total</b> .....		88,654	90,253	90,371	89,566	88,232	92,587	96,042	98,150
<b>Total private</b> .....		72,552	73,720	73,903	73,370	72,043	76,371	79,446	81,204
<b>Goods-producing</b> .....		25,993	25,799	25,126	24,056	22,370	24,017	24,469	24,192
<b>Mining</b> .....		928	990	1,107	1,205	945	952	933	832
Lead and zinc ores .....	103	6.2	6.9	7.2	5.9	4.0	4.0	3.3	2.9
Gold and silver ores .....	104	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.9	8.6	10.5	9.8	10.4
Other metal ores and mining services .....	105,6,8,9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	25.5	14.0	13.3	11.4	9.1
Anthracite mining .....	11	3.1	3.3	3.5	3.5	2.9	2.9	2.7	2.6
Crude petroleum and natural gas .....	131	185.3	205.7	242.7	265.7	257.0	254.5	248.4	232.3
Natural gas liquids .....	132	4.7	5.5	6.8	8.4	6.7	6.6	6.6	6.1
Clay and related minerals .....	145	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.4	8.1	8.4	8.6	8.4
Other nonmetallic minerals and services .....	141,8,9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.8	9.2	9.9	9.5	10.0
<b>Construction</b> .....		4,093	4,087	3,934	3,638	3,469	3,914	4,241	4,415
Concrete work .....	177	105.3	100.2	98.2	84.5	90.5	113.6	132.6	138.9
Waterwell drilling .....	178	19.5	18.7	19.1	16.9	14.6	15.7	16.1	16.2
Miscellaneous special trade contractors .....	179	342.4	351.1	359.4	336.8	314.2	353.1	393.0	416.4
<b>Manufacturing</b> .....		20,972	20,722	20,085	19,213	17,956	19,151	19,295	18,945
<b>Durable goods</b> .....		12,745	12,609	12,105	11,446	10,417	11,346	11,561	11,277
Lumber and wood products:									
Special product sawmills, nec .....	2429	6.6	6.0	4.8	3.5	3.6	4.1	3.1	2.7
Structural wood members, nec .....	2439	17.0	15.9	15.0	11.6	14.0	19.0	19.1	22.6
Nailed wood boxes and shooks .....	2441	8.9	8.0	6.9	5.9	5.3	5.6	5.5	5.4
Wood pallets and skids .....	2448	27.8	26.6	24.6	23.0	21.6	25.8	26.9	26.3
Wood containers, nec .....	2449	10.8	10.3	10.3	9.2	8.8	8.7	8.3	8.2
Prefabricated wood buildings .....	2452	25.0	20.4	18.9	16.0	15.8	19.0	18.6	19.7
Wood preserving .....	2491	13.5	13.8	13.2	11.8	11.8	12.3	13.0	12.5
Particleboard .....	2492	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.1	6.0	7.4	8.3	9.4
Wood products, nec .....	2499	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	56.9	55.3	58.1	55.5	56.2
Furniture and fixtures:									
Wood TV and radio cabinets and household furniture .....	2517,9	15.9	14.0	13.8	12.1	11.1	13.4	13.9	14.0
Wood office furniture .....	2521	17.1	18.8	21.7	24.6	23.9	28.4	32.0	31.4
Metal office furniture .....	2522	32.2	32.1	31.2	29.9	27.7	32.7	33.1	33.6
Wood partitions and fixtures .....	2541	33.3	33.3	31.4	29.8	28.3	33.9	36.7	38.8
Metal partitions and fixtures .....	2542	30.1	31.5	27.8	27.8	25.8	29.3	31.4	31.5
Drapery hardware and blinds and shades .....	2591	16.5	16.8	16.5	16.4	16.9	20.4	20.5	22.3
Furniture and fixtures, nec .....	2599	11.8	11.2	12.3	12.5	13.0	13.4	15.4	16.4
Stone, clay, and glass products:									
Brick and structural clay tile .....	3251	22.0	20.1	16.4	13.0	13.9	16.7	16.5	17.1
Clay refractories .....	3255	14.1	14.1	11.3	9.7	7.0	8.1	7.4	7.0
Other structural clay products .....	3253,9	15.8	14.5	12.9	11.0	11.3	12.4	12.4	12.3
Vitreous plumbing fixtures .....	3261	11.2	12.7	9.9	8.5	8.8	10.0	9.5	10.3
Vitreous china and fine earthenware food utensils .....	3262,3	9.4	10.5	9.7	9.1	7.7	7.4	6.7	7.1
Porcelain electrical supplies .....	3264	10.7	13.0	11.4	10.8	9.6	9.7	10.4	9.0
Pottery products, nec .....	3269	15.3	13.0	12.3	11.3	10.5	11.8	10.7	10.3
Lime .....	3274	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.4	5.3	5.7	5.4	5.3
Gypsum products .....	3275	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	11.4	11.2	13.5	14.3	14.2
Cut stone and stone products .....	328	12.1	11.7	11.0	10.3	10.7	11.2	12.0	12.4
Gaskets, packing and sealing devices .....	3293	29.3	27.9	27.4	26.8	23.5	26.7	27.7	28.6
Minerals, ground or treated .....	3295	16.3	16.2	15.6	14.6	12.8	13.4	13.5	12.5
Nonclay refractories .....	3297	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.9	7.3	8.0	8.2	8.1
Nonmetallic mineral products, nec .....	3299	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.5	6.3	7.2	7.1	7.1
Primary metal industries:									
Electrometallurgical products .....	3313	14.7	14.6	13.1	11.2	8.2	10.2	9.6	9.0
Steel wire and related products .....	3315	25.9	22.7	22.5	19.3	16.7	18.6	18.6	18.7
Cold finishing of steel shapes .....	3316	20.5	19.0	17.2	15.5	13.5	15.4	15.8	15.6
Steel investment foundries .....	3324	11.6	12.3	14.0	12.3	10.9	11.6	13.3	13.1
Primary copper .....	3331	15.5	15.6	14.1	12.7	10.6	9.2	7.0	5.4
Primary lead and zinc .....	3332,3	9.6	8.1	7.9	6.1	5.0	4.7	4.4	3.6
Primary nonferrous metals, nec .....	3339	10.3	11.8	11.7	10.1	8.8	10.3	10.8	9.5
Secondary nonferrous metals .....	334	24.4	25.4	24.0	21.3	18.0	19.6	19.7	18.1
Aluminum extruded products .....	3354	33.3	33.6	31.5	29.2	28.2	30.8	33.0	32.6
Aluminum and nonferrous rolling and drawing, nec .....	3355,6	24.8	26.0	23.8	24.5	19.7	20.4	19.8	19.5
Brass, bronze, and copper foundries .....	3362	20.4	20.6	18.1	17.2	13.8	14.7	14.7	14.4
Nonferrous foundries, nec .....	3369	22.0	21.1	19.4	17.7	17.0	18.3	18.2	19.3
Miscellaneous primary metal products .....	339	25.1	26.8	25.6	24.9	21.6	24.5	25.4	24.9
Metal heat treating .....	3398	13.7	14.2	13.7	14.1	11.3	12.7	14.1	13.8
Primary metal products, nec .....	3399	11.4	12.6	11.9	10.8	10.3	11.8	11.3	11.1

See footnotes at end of table.

**Table 7. Employment benchmarks for industries not published monthly, March 1979-86—Continued**

(In thousands)

Industry	1972 SIC Code	1979	1980	1981	1982	1983	1984	1985	1986
<b>Durable goods-Continued</b>									
Fabricated metal products:									
Metal barrels, drums, and pails .....	3412	13.9	13.2	13.3	12.1	11.9	11.4	11.8	11.1
Cutlery .....	3421	15.9	16.3	15.7	13.4	13.2	13.0	12.7	12.1
Metal sanitary ware .....	3431	11.5	10.8	10.9	9.6	8.7	9.8	10.6	11.2
Prefabricated metal buildings .....	3448	27.6	28.8	28.3	25.0	20.6	22.7	24.9	24.8
Miscellaneous metal work .....	3449	10.7	10.2	9.1	8.0	7.5	7.7	7.2	7.0
Nonferrous forgings and crowns and closures .....	3463,6	11.2	13.0	12.8	11.7	10.6	10.5	10.9	11.1
Steel springs, except wire .....	3493	9.0	7.6	6.1	5.8	4.9	5.6	6.6	5.9
Wire springs .....	3495	16.6	15.4	14.9	13.1	11.9	13.7	14.7	13.5
Fabricated pipe and fittings .....	3498	27.1	27.2	27.9	31.0	21.7	22.9	22.5	21.2
Metal foil and leaf, and fabricated metal products, nec .....	3497,9	49.6	49.7	44.5	43.2	39.5	44.6	45.5	45.2
Machinery, except electrical:									
Lawn and garden equipment .....	3524	23.9	25.7	22.7	19.5	21.7	24.0	25.1	25.9
Elevators and moving stairways .....	3534	12.8	13.4	12.9	12.4	11.6	11.7	11.5	11.1
Hoists, cranes, and monorails .....	3536	19.7	23.3	16.7	15.5	11.2	12.2	13.6	12.7
Rolling mill machinery .....	3547	11.5	11.4	9.2	8.5	5.9	5.5	5.6	5.1
Metalworking machinery, nec .....	3549	14.4	14.9	13.7	13.3	11.0	11.7	12.2	12.9
Woodworking machinery .....	3553	13.3	14.3	12.0	10.3	8.8	9.8	10.2	9.2
Paper industries machinery .....	3554	19.3	18.9	20.0	19.0	15.4	15.7	16.9	16.5
Special industry machinery, nec .....	3559	60.8	63.8	59.6	55.0	45.0	50.5	56.6	52.5
Industrial patterns .....	3565	10.7	10.4	10.0	9.7	8.0	8.3	8.0	9.1
Industrial furnaces and ovens .....	3567	19.9	21.6	20.5	19.2	15.1	16.3	17.3	16.8
General industrial machinery, nec .....	3569	48.2	48.3	49.6	48.9	46.2	50.0	54.1	52.5
Scales and balances, except laboratory .....	3576	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.6	6.9	7.3	7.0	6.3
Automatic merchandising machines .....	3581	10.5	10.4	10.9	9.5	8.7	9.1	9.0	8.5
Commercial laundry equipment .....	3582	5.9	5.6	5.3	4.7	4.4	4.8	4.8	5.6
Measuring and dispensing pumps and service industry machinery, nec .....	3586,9	42.2	41.6	38.4	37.7	35.0	35.1	36.3	36.1
Electrical and electronic equipment:									
Welding apparatus, electric .....	3623	19.6	18.9	18.1	18.3	15.2	15.1	15.5	14.5
Carbon and graphite products .....	3624	13.9	14.1	14.0	13.6	10.6	11.3	11.5	10.2
Electrical industrial apparatus, nec .....	3629	14.3	13.9	12.2	11.9	10.5	11.5	11.1	11.1
Household cooking equipment .....	3631	25.0	27.6	24.0	22.9	23.9	28.7	22.9	21.6
Other household appliances .....	3635,6,9	37.0	34.6	32.3	26.6	26.1	28.9	28.6	27.4
Commercial lighting fixtures .....	3646	17.3	17.1	17.2	17.2	15.4	17.4	19.2	19.9
Vehicular lighting equipment .....	3647	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.4	13.4	15.6	15.6	17.1
Lighting equipment, nec .....	3648	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.6	9.1	9.4	8.4	9.3
Phonograph records .....	3652	27.9	24.2	24.6	21.7	19.2	18.5	17.7	17.4
Electronic capacitors .....	3675	25.6	28.4	25.8	27.2	25.2	33.4	30.1	25.2
Electronic resistors .....	3676	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.2	11.5	12.2	12.3	11.8
Electronic coils and transformers .....	3677	25.6	27.7	24.7	24.5	21.6	26.5	24.1	21.4
Electronic connectors .....	3678	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.8	8.9	10.8	12.0	11.9
Primary batteries, dry and wet .....	3692	16.0	15.5	16.5	15.2	13.7	13.8	14.3	13.4
X-ray apparatus and tubes .....	3693	25.6	25.2	26.5	30.0	32.7	34.6	33.9	32.3
Electrical equipment and supplies, nec .....	3699	14.9	14.4	13.7	13.4	13.7	15.3	15.0	13.3
Transportation equipment:									
Self-contained motor homes .....	3716	5.2	5.6	4.9	6.5	9.8	15.0	15.7	16.3
Motorcycles, bicycles, and parts .....	375	18.6	21.8	17.4	17.1	14.5	16.4	13.5	12.4
Space propulsion units and other space vehicle equipment .....	3764,9	20.0	22.1	26.1	26.4	30.1	33.9	37.4	47.8
Tanks and tank components .....	3795	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.3	18.5	18.4	20.0	20.0
Transportation equipment, nec .....	3799	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.2	8.8	10.8	12.2	11.2
Instruments and related products:									
Fluid meters and counting devices .....	3824	17.5	18.1	18.5	17.1	14.3	14.5	15.0	14.2
Measuring and controlling devices, nec .....	3829	22.2	22.4	25.4	25.9	25.4	25.3	28.5	29.0
Dental equipment and supplies .....	3843	17.7	17.4	17.1	15.7	14.2	14.0	14.1	14.3
Miscellaneous manufacturing:									
Silverware and plated ware .....	3914	11.8	11.3	11.5	11.1	9.8	10.1	9.0	8.2
Jewelers' materials and lapidary work .....	3915	9.2	8.0	7.6	7.8	7.6	8.3	8.4	8.2
Pens and mechanical pencils .....	3951	12.3	12.1	11.6	9.9	9.1	9.3	9.0	8.9
Lead pencils and art goods .....	3952	9.5	9.5	9.4	8.2	7.4	7.0	7.2	7.0
Marking devices and carbon paper and inked ribbons .....	3953,5	16.4	16.9	15.5	15.7	15.1	15.8	16.2	17.0
Artificial flowers and buttons .....	3962,3	8.6	8.4	8.3	7.1	6.4	7.4	7.6	8.1
Needles, pins, and fasteners .....	3964	19.0	19.0	14.5	12.1	9.9	10.1	10.0	8.9
Brooms and brushes .....	3991	17.2	18.0	15.2	15.2	13.6	14.2	13.5	13.2
Burial caskets .....	3995	12.2	12.0	11.3	11.0	10.2	9.9	9.8	9.5
Manufacturing industries, nec .....	3996,9	64.7	61.8	56.3	54.9	51.0	53.6	53.5	50.0

See footnotes at end of table.

**Table 7. Employment benchmarks for industries not published monthly, March 1979-86—Continued**

(In thousands)

Industry	1972 SIC Code	1979	1980	1981	1982	1983	1984	1985	1986
<b>Nondurable goods</b> .....		8,227	8,113	7,980	7,767	7,539	7,805	7,734	7,668
<b>Food and kindred products:</b>									
Poultry and egg processing .....	2017	15.2	15.2	14.7	15.1	16.3	18.8	19.6	17.5
Creamery butter .....	2021	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.3	2.0	2.0	2.0
Condensed and evaporated milk .....	2023	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.6	15.4	16.0	15.0	15.1
Ice cream and frozen desserts .....	2024	19.4	19.1	18.8	18.1	17.8	18.2	18.6	20.5
Dehydrated fruits, vegetables, and soups .....	2034	17.9	16.7	15.7	16.0	16.6	16.1	16.5	16.8
Pickles, sauces, and salad dressings .....	2035	23.3	24.1	23.3	22.0	18.8	18.7	18.7	19.4
Frozen specialties .....	2038	34.2	34.7	34.2	34.2	33.1	35.4	38.4	40.8
Cereal breakfast foods .....	2043	16.0	16.6	16.3	17.2	17.7	17.8	17.9	17.8
Rice milling .....	2044	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.2	5.8	5.5	5.1	4.9
Blended and prepared flour .....	2045	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.3	7.3	6.9	7.1	7.7
Wet corn milling .....	2046	12.9	12.7	13.5	11.7	10.3	10.3	10.1	9.0
Dog, cat, and other pet food .....	2047	17.5	16.7	17.0	16.7	16.5	17.0	16.2	16.3
Cane sugar, except refining only .....	2061	( <sup>1</sup> )	( <sup>1</sup> )	8.5	8.4	8.9	7.7	7.8	7.1
Cane sugar, refining .....	2062	( <sup>1</sup> )	( <sup>1</sup> )	10.2	9.3	8.0	7.6	6.0	6.0
Beet sugar .....	2063	( <sup>1</sup> )	( <sup>1</sup> )	10.2	10.6	7.2	7.5	6.6	6.5
Chocolate and cocoa products and chewing gum .....	2066,7	19.8	19.5	19.4	18.7	18.5	19.8	18.8	18.4
Oil mills .....	2074,5,6	19.4	20.3	19.4	18.1	19.0	15.4	15.9	15.6
Animal and marine fats and oils .....	2077	11.0	10.8	10.3	9.9	9.3	9.2	8.7	8.2
Shortening and cooking oils .....	2079	14.3	13.4	12.5	12.3	11.9	11.7	11.3	11.0
Malt and flavoring extracts and syrups, nec .....	2083,7	14.2	14.4	14.9	15.6	15.5	16.2	16.6	16.1
Wines, brandy, and brandy spirits .....	2084	12.4	12.6	14.0	13.4	14.9	13.8	14.4	15.0
Distilled liquor, except brandy .....	2085	18.5	18.4	17.0	15.6	14.6	14.3	13.4	12.3
Canned and cured seafoods .....	2091	17.6	15.9	16.5	18.0	14.5	13.4	9.4	10.2
Fresh or frozen packaged fish .....	2092	33.2	33.5	32.9	32.1	34.6	33.8	33.1	35.6
Roasted coffee .....	2095	13.3	13.0	12.9	12.4	12.4	12.1	12.3	12.3
Manufactured ice .....	2097	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.9	4.8	5.0	5.0	5.7
Macaroni and spaghetti .....	2098	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.3	8.2	8.0	8.2	8.3
Food preparation, nec .....	2099	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	81.1	82.3	90.5	86.2	89.7
<b>Tobacco manufactures:</b>									
Cigars .....	212	8.3	7.5	7.1	6.7	5.5	5.7	5.4	4.6
Other tobacco manufactures .....	213,4	14.2	12.1	12.7	11.8	13.6	11.4	12.9	12.0
<b>Textile mill products:</b>									
Warpknit fabric and knitting mills, nec .....	2258,9	26.3	24.5	21.4	20.7	18.2	18.0	18.0	17.7
Finishing plants, nec .....	2269	16.4	17.1	14.5	14.0	14.1	18.7	14.2	14.2
Wool yarn mills .....	2283	9.9	10.2	8.6	8.3	8.3	7.5	6.1	6.2
Thread mills .....	2284	10.1	11.6	10.2	9.5	9.2	9.2	7.5	6.8
Other textile goods .....	2291-3,7,9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	27.1	26.5	23.9	24.9	25.7
Processed textile waste .....	2294	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.4	6.5	6.5	6.2	6.0
Coated fabrics, not rubberized .....	2295	11.7	12.4	11.6	10.9	9.7	10.8	11.0	10.1
Tire cord and fabric .....	2296	11.5	10.8	9.5	8.3	7.1	6.9	6.5	5.6
Cordage and twine .....	2298	10.5	9.7	9.1	8.8	8.1	8.2	8.1	7.5
<b>Apparel and other textile products:</b>									
Men's and boys' underwear .....	2322	17.3	16.1	14.8	13.5	13.7	15.7	15.9	16.8
Men's and boys' neckwear .....	2323	6.8	6.7	6.7	6.4	6.8	7.2	6.9	7.3
Men's and boys' clothing, nec .....	2329	58.5	62.1	57.6	55.3	48.7	53.7	52.3	49.6
Hats, caps, and millinery .....	235	16.4	18.3	18.6	15.9	14.7	16.2	16.4	15.6
Children's coats and suits .....	2363	7.5	7.0	6.3	5.3	3.6	4.2	3.0	2.2
Children's outerwear, nec .....	2369	31.8	31.0	30.4	31.1	29.4	32.1	31.9	32.2
Fur goods .....	237	4.3	3.8	3.9	3.7	3.2	2.3	2.9	2.7
Fabric dress and work gloves .....	2381	15.2	13.2	11.4	9.9	8.7	8.7	9.4	8.6
Robes and dressing gowns .....	2384	11.1	10.6	9.9	9.0	8.5	8.4	8.0	7.7
Waterproof outer garments .....	2385	12.6	12.3	12.2	10.2	9.5	8.0	8.0	6.8
Leather and sheep lined clothing .....	2386	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	3.8	3.8	3.1	2.3
Apparel belts .....	2387	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.7	10.3	10.7	9.5	8.8
Apparel and accessories, nec .....	2389	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.5	5.8	6.3	6.7	6.7
Textile bags .....	2393	9.4	9.8	8.7	8.3	7.9	8.1	8.0	7.6
Canvas and related products .....	2394	14.8	15.0	15.2	14.9	15.0	16.5	16.9	16.4
Pleating and stitching .....	2395	16.1	16.2	17.4	15.6	14.4	14.8	13.5	14.3
Other fabricated textile products .....	2397,9	33.2	30.8	28.8	26.0	26.8	29.3	30.0	31.3
<b>Paper and allied products:</b>									
Pulp mills .....	261	15.8	16.5	16.9	15.7	14.4	13.7	13.4	14.2
Die-cut paper and board .....	2645	17.6	17.5	16.5	16.1	15.5	17.9	18.4	15.7
Sanitary paper products .....	2647	25.5	26.6	26.4	27.1	27.7	28.5	30.1	31.4
Other converted paper products .....	2646,8,9	44.1	45.6	44.9	41.8	41.3	44.4	44.2	45.7
Set-up paperboard boxes .....	2652	12.6	11.9	11.9	10.7	10.3	10.5	10.4	10.1
Fiber cans, drums, and similar products .....	2655	19.4	18.9	18.0	16.9	17.2	17.3	16.6	15.8
Building paper and board mills .....	266	12.8	12.4	11.0	9.7	10.4	11.1	9.9	9.7

See footnotes at end of table.



**Table 7. Employment benchmarks for industries not published monthly, March 1979-86—Continued**

(In thousands)

Industry	1972 SIC Code	1979	1980	1981	1982	1983	1984	1985	1986
<b>Nondurable goods—Continued</b>									
Printing and publishing:									
Engraving and plate printing .....	2753	11.5	11.2	11.3	10.9	11.3	11.4	11.5	11.8
Commercial printing, gravure .....	2754	10.9	11.3	11.8	12.8	12.8	13.5	15.0	14.9
Greeting card publishing .....	277	23.0	24.0	23.8	24.4	23.4	23.3	24.0	22.3
Blankbooks and looseleaf binders .....	2782	38.3	38.5	39.0	38.5	39.4	40.8	43.1	44.3
Bookbinding and related work .....	2789	23.9	24.0	23.8	23.1	23.9	26.4	27.9	27.4
Typesetting .....	2791	26.7	27.5	28.1	28.8	28.2	30.6	32.8	33.1
Other publishing and printing .....	2793-5	16.4	16.9	16.8	17.1	16.2	17.2	17.6	17.6
Chemicals and allied products:									
Alkalies and chlorine .....	2812	21.3	23.0	20.8	20.5	17.6	15.6	15.3	12.4
Industrial gases .....	2813	21.7	21.0	22.0	24.3	23.6	23.1	23.2	23.5
Inorganic pigments .....	2816	12.5	11.6	11.2	10.8	9.7	9.8	10.3	10.6
Synthetic rubber .....	2822	14.2	13.9	15.3	14.5	13.4	13.2	13.4	13.3
Cellulosic man-made fibers .....	2823	13.1	14.6	19.8	18.5	15.7	19.1	18.0	16.3
Biological products .....	2831	21.8	22.9	22.6	23.8	23.3	22.3	22.3	23.2
Medicinals and botanicals .....	2833	16.7	18.1	18.2	18.6	18.3	18.4	17.8	18.2
Nitrogenous fertilizers .....	2873	14.0	14.8	15.4	14.9	13.0	12.8	12.7	11.7
Phosphatic fertilizers .....	2874	15.0	17.7	16.8	16.5	13.6	13.2	13.6	11.9
Fertilizers, mixing only .....	2875	15.4	15.0	14.3	12.7	13.1	13.0	12.9	11.8
Agricultural chemicals, nec .....	2879	26.0	26.2	25.3	24.8	23.1	22.7	22.5	21.2
Adhesives and sealants .....	2891	19.8	20.5	20.9	20.4	19.7	21.3	22.2	22.3
Explosives .....	2892	13.4	13.1	15.7	15.3	15.6	15.2	16.3	16.9
Printing ink .....	2893	12.4	12.8	12.3	11.8	11.6	11.9	12.0	11.7
Other chemical preparations .....	2895,9	46.9	47.0	45.1	44.6	41.5	41.5	44.0	42.2
Petroleum and coal products:									
Paving mixtures and blocks .....	2951	10.3	10.0	10.0	9.4	9.2	9.4	9.9	10.4
Asphalt felts and coatings .....	2952	20.8	20.4	17.4	12.7	14.1	15.3	14.1	14.0
Miscellaneous petroleum and coal products .....	299	12.0	12.3	12.3	11.9	11.1	11.1	11.4	11.6
Rubber and miscellaneous plastics products:									
Fabricated rubber products .....	303,4,6	145.7	135.4	127.5	123.4	115.5	131.1	130.7	125.8
Leather and leather products:									
Boot and shoe cut stock and findings .....	313	11.6	11.0	10.7	10.4	9.4	9.4	6.9	6.3
House slippers .....	3142	8.5	8.7	9.1	9.3	7.6	7.0	5.9	5.1
Footwear, except rubber, nec .....	3149	24.0	23.5	23.5	20.6	20.3	18.7	15.1	14.0
Leather gloves and mittens .....	315	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.2	3.4	3.4	3.3	3.2
Women's handbags and purses .....	3171	18.6	17.2	17.5	17.2	14.6	14.2	11.7	10.4
Personal leather goods, nec .....	3172	13.8	14.1	12.1	11.6	10.8	11.0	9.6	9.2
Leather goods, nec .....	319	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.1	8.3	8.2	8.1	7.9
<b>Service-producing</b> .....		<b>62,661</b>	<b>64,454</b>	<b>65,245</b>	<b>65,510</b>	<b>65,862</b>	<b>68,570</b>	<b>71,573</b>	<b>73,958</b>
<b>Transportation and public utilities</b> .....									
Transportation:									
Other railroads and switching and terminal companies .....	4012	50.5	54.1	40.0	32.9	27.9	27.4	36.3	36.1
Other passenger transit services .....	414,7	13.6	15.3	16.6	18.0	18.6	20.7	22.0	21.0
Trucking, local and long distance .....	421	1,224.8	1,186.7	1,140.1	1,109.1	1,067.9	1,177.3	1,227.9	1,247.0
Trucking terminal facilities .....	423	7.1	7.6	7.2	6.9	5.8	5.9	5.6	5.2
Deep sea transportation .....	441,2	42.0	42.6	46.3	45.8	46.0	41.4	40.0	38.3
Transportation on great lakes, rivers, and canals .....	443,4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.1	16.8	18.3	16.7	15.3
Certified air transportation .....	451	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	365.1	365.0	389.3	398.7	445.3
Noncertified air transportation .....	452	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	27.6	24.1	28.6	30.5	35.4
Arrangement of transportation .....	472	113.8	125.7	128.2	139.5	149.1	167.7	189.5	200.2
Rental of railroad cars .....	474	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.7	7.4	6.9	7.0	6.4
Miscellaneous transportation services .....	478	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.0	11.7	13.0	15.0	13.6
Communication and public utilities:									
Telegraph communication .....	482	18.4	19.2	19.3	19.6	18.9	18.0	16.1	15.0
Communication services, nec .....	489	50.8	62.2	78.1	102.4	120.0	133.0	143.3	143.5
Water supply .....	494	20.0	20.4	20.6	20.7	20.8	21.1	21.8	22.3
Steam supply and irrigation systems .....	496,7	2.5	2.5	2.7	3.3	2.7	3.3	3.4	3.4
<b>Wholesale trade</b> .....									
Tires and tubes .....	5014	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	31.9	31.4	32.5	31.1	30.1
Warm air heating, air conditioning, and refrigeration .....	5075,8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	57.1	56.8	61.4	62.8	61.6
Service establishment equipment .....	5087	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	61.5	63.4	67.1	71.0	73.2
Transportation equipment and supplies .....	5088	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	34.6	30.1	31.2	32.6	32.7
Jewelry, watches, and precious stones .....	5094	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	36.2	35.9	38.0	40.4	42.9
Durable goods, nec .....	5099	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	63.3	59.0	60.5	62.0	60.0
Frozen foods .....	5142	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	23.1	24.3	25.8	27.0	27.6
Dairy products .....	5143	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	39.9	40.7	41.4	43.7	44.1
Poultry and poultry products .....	5144	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	26.9	27.8	24.8	24.0	23.3
Confectionery .....	5145	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	34.2	37.0	40.1	40.5	41.8

See footnotes at end of table.

**Table 7. Employment benchmarks for industries not published monthly, March 1979-86—Continued**

(In thousands)

Industry	1972 SIC Code	1979	1980	1981	1982	1983	1984	1985	1986
<b>Wholesale trade—Continued</b>									
Fish and seafoods .....	5146	( )	( )	( )	23.4	24.3	25.7	27.1	27.9
Groceries and related products, nec .....	5149	( )	( )	( )	150.9	153.7	163.8	174.1	184.4
Farm-product raw materials .....	515	145.6	147.0	145.4	145.9	139.0	137.0	133.8	127.5
Tobacco and tobacco products .....	5194	( )	( )	( )	38.6	38.3	40.1	39.1	40.5
Paints, varnishes, and supplies .....	5198	( )	( )	( )	25.6	25.4	26.9	27.8	28.0
Nondurable goods, nec .....	5199	( )	( )	( )	173.5	175.5	192.2	207.8	216.4
<b>Retail trade .....</b>									
Paint, glass, and wallpaper stores .....	523	14,674	14,800	14,788	14,766	14,971	15,891	16,782	17,327
Retail nurseries and garden stores .....	526	61.1	61.7	61.6	60.4	58.8	63.2	66.1	67.2
Mobile home dealers .....	527	52.5	53.7	54.1	54.0	53.3	56.6	64.2	68.5
Fruit stores and vegetable markets .....	543	29.6	28.3	25.3	24.1	24.0	28.3	29.1	27.5
Candy, nut, and confectionery stores .....	544	( )	( )	( )	18.2	20.0	21.0	21.2	21.6
Miscellaneous food stores .....	549	( )	( )	( )	24.2	25.3	27.6	29.6	31.5
New and used car dealers .....	551	( )	( )	( )	33.6	34.5	37.8	39.5	38.9
Used car dealers .....	552	855.3	778.8	710.0	687.7	699.0	774.3	839.1	885.0
Boat dealers .....	555	48.5	43.0	40.4	40.3	41.8	47.5	51.1	52.5
Motorcycle dealers .....	557	( )	( )	( )	22.4	23.0	25.2	27.2	30.2
Trailer and automotive dealers, nec .....	556,9	( )	( )	( )	27.8	26.1	27.7	29.8	29.0
Women's accessory and specialty stores .....	563	( )	( )	( )	23.9	23.7	27.1	27.5	28.0
Children's and infant's wear stores .....	564	24.0	23.2	23.0	21.4	21.7	23.3	26.2	29.1
Furriers and fur shops .....	568	26.2	28.2	29.8	31.4	32.3	32.6	33.8	35.0
Miscellaneous apparel and accessories .....	569	( )	( )	( )	5.8	6.0	6.2	6.5	7.1
Floor covering stores .....	5713	( )	( )	( )	45.8	45.6	49.3	51.5	54.5
Drapery, upholstery, and miscellaneous home furnishings stores .....	5714,9	( )	( )	( )	52.4	52.3	59.6	64.3	68.3
Used merchandise stores .....	593	( )	( )	( )	67.7	68.7	77.2	82.3	86.8
Hobby, toy, and game shops .....	5945	56.2	58.7	59.7	61.3	64.1	70.4	74.3	78.1
Camera, luggage, and leather goods stores .....	5946,8	( )	( )	( )	43.0	44.1	52.2	56.5	63.8
Direct selling organizations .....	5963	( )	( )	( )	40.1	39.7	39.7	39.9	40.4
<b>Finance, insurance, and real estate .....</b>									
Federal Reserve banks .....	601	4,876	5,090	5,239	5,294	5,361	5,588	5,825	6,140
National banks and nonincorporated private banks .....	6025,6,7,8	( )	( )	( )	23.8	23.5	23.5	23.2	24.1
Trust companies and other banking .....	604,5	( )	( )	( )	800.0	794.7	803.2	827.8	850.5
Credit agencies other than banks, nec .....	611,3	( )	( )	( )	49.3	54.7	54.5	57.2	61.3
State associations, noninsured .....	6124,5	17.3	18.4	20.4	21.8	22.7	23.4	24.5	24.3
Other security, commodity brokers, and services .....	622,3,8	( )	( )	( )	8.0	8.4	8.3	9.9	7.6
Holding offices .....	671	38.5	41.5	46.6	49.6	55.9	64.6	69.7	77.5
Investment offices and miscellaneous investing .....	672,9	51.4	50.9	53.6	63.2	67.6	74.8	80.8	91.1
Trusts .....	673	( )	( )	( )	27.1	27.5	31.5	36.3	39.1
Insurance and insurance carriers, nec .....	635,9	( )	( )	( )	40.7	38.7	34.4	40.4	55.2
Pension, health , and welfare funds .....	637	( )	( )	( )	7.6	8.3	8.4	9.4	9.8
Title abstract offices .....	654	22.8	22.2	20.6	23.2	25.2	24.6	26.8	27.8
<b>Services .....</b>									
Hotels and other lodging places:		16,829	17,636	18,340	18,888	19,262	20,365	21,561	22,650
Camps and trailing parks .....	703	14.3	14.4	15.0	14.3	15.2	16.8	18.3	18.0
Other lodging places .....	702,4	16.9	16.1	15.5	15.2	14.6	15.3	15.3	15.5
Personal services:									
Barber shops .....	724	27.8	27.6	25.7	23.9	23.8	23.4	21.2	20.1
Shoe repair and miscellaneous personal services .....	725,9	141.5	139.9	168.4	183.2	190.4	206.6	222.6	242.0
Business services:									
Outdoor, radio, TV, advertising, nec .....	7312,3,9	( )	( )	( )	40.3	41.8	46.2	48.1	51.9
News syndicates .....	735	( )	( )	( )	7.2	7.7	8.2	8.3	8.5
Personnel supply services, nec .....	7369	( )	( )	( )	30.2	30.0	35.7	46.5	53.9
Computer related services, nec .....	7379	( )	( )	( )	51.2	58.6	76.6	85.0	96.2
Trading stamp services .....	7396	( )	( )	( )	7.2	7.5	6.4	6.1	4.1
Commercial testing laboratories .....	7397	( )	( )	( )	39.0	36.7	40.5	44.9	46.5
Business services, nec .....	7399	( )	( )	( )	325.2	341.7	387.6	428.3	453.2
Auto repair, services, and garages:									
Automobile parking .....	752	37.5	37.2	37.5	38.8	39.9	41.9	43.8	46.9
Top and body repair shops .....	7531	( )	( )	( )	104.9	108.2	117.9	126.2	131.2
Tire retreading, painting, and automotive repair shops, nec .....	7534,5,9	( )	( )	( )	110.6	113.5	123.7	131.0	133.9
General automotive repair shops .....	7538	( )	( )	( )	143.4	149.3	166.7	179.2	183.9
Automotive services, except repairs .....	754	71.1	68.7	64.1	62.8	65.2	76.4	88.0	97.6

See footnotes at end of table.

**Table 7. Employment benchmarks for industries not published monthly, March 1979-86—Continued**

(In thousands)

Industry	1972 SIC Code	1979	1980	1981	1982	1983	1984	1985	1986
<b>Services-Continued</b>									
Miscellaneous repair services:									
Reupholstery and furniture repair .....	764	23.1	22.5	22.1	21.1	21.9	23.2	23.3	22.9
Miscellaneous repair services, nec .....	763,9	173.0	181.0	183.3	181.6	167.9	184.5	191.8	192.5
Motion pictures:									
Motion picture distribution and services .....	782	10.7	10.6	11.1	10.9	10.7	11.8	11.2	12.1
Amusement and recreation services:									
Producers, orchestras, entertainers .....	792	83.2	86.2	86.7	86.3	91.3	92.4	98.4	102.1
Bowling and billiard establishments .....	793	116.4	117.2	114.8	111.3	107.4	107.6	106.7	104.8
Commercial sports .....	794	60.0	64.2	62.1	64.0	65.2	69.3	68.6	74.0
Amusement and recreation services, nec .....	791,9	405.1	432.6	443.5	472.5	479.4	480.7	484.0	501.4
Health services:									
Offices of osteopathic physicians .....	803	22.0	23.9	25.1	26.3	27.5	28.7	29.4	30.7
Offices of other health practitioners .....	804	85.3	95.2	104.5	116.2	129.9	145.6	162.4	176.6
Health and allied services, nec .....	809	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	94.9	122.0	145.9	177.4	213.3
Educational services:									
Educational services, nec .....	823,9	69.9	70.9	69.9	69.0	65.4	71.3	72.6	77.9
Social services:									
Child day care services .....	835	316.9	303.2	294.6	298.2	302.7	314.7	338.7	360.7
Social services, nec .....	839	227.5	241.5	247.9	218.2	216.0	226.0	237.4	240.2
Membership organizations:									
Professional organizations .....	862	33.9	35.5	35.6	35.9	36.6	37.7	39.6	41.8
Religious organizations .....	866	890.4	892.3	885.2	898.5	880.6	855.6	843.9	823.9
Political and membership organizations, nec .....	865,9	65.0	68.2	66.0	64.4	64.5	67.3	71.7	87.9
Miscellaneous services:									
Services, nec .....	899	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21.0	21.1	22.7	24.5	25.8
Agricultural services:									
Veterinary services .....	074	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	72.9	77.2	81.9	87.0	94.1
Animal services, except veterinary .....	075	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	34.1	35.4	38.2	39.7	41.4
Landscape and horticultural services .....	078	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	122.4	131.4	154.2	181.0	199.2
<b>Government</b>									
Federal .....		16,102	16,533	16,468	16,196	16,189	16,216	16,596	16,946
Small arms ammunition and ordnance .....		2,740	2,869	2,769	2,725	2,755	2,779	2,839	2,908
Other manufacturing .....		19.3	19.8	20.4	21.2	22.1	22.2	19.1	19.1
Trade .....		33.0	31.8	31.2	30.2	30.3	31.5	31.7	31.9
Finance .....		77.4	79.1	78.8	80.6	79.3	78.2	79.7	77.3
Other services .....		22.9	21.9	22.8	21.5	20.7	20.6	20.6	22.2
State .....		126.9	172.1	157.7	153.6	164.3	159.6	158.9	159.2
State government, excluding education .....		3,607	3,688	3,731	3,744	3,746	3,793	3,914	3,976
Construction .....		2,134.7	2,193.8	2,219.1	2,198.8	2,197.7	2,217.4	2,263.2	2,300.9
Transportation and public utilities .....		280.6	293.6	290.0	259.8	248.1	237.4	228.3	207.6
Services .....		34.1	34.3	34.4	41.3	44.0	46.2	45.4	45.6
Social services .....		( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2,415.0
Services, except hospitals, education, and social services .....		179.7	182.2	179.9	191.2	178.0	180.8	183.6	175.3
All other State government .....		106.9	124.3	144.3	124.4	123.7	122.9	124.2	125.8
Local .....		990.2	1,028.2	1,048.4	1,083.6	1,122.0	1,168.7	1,229.3	1,308.4
Local government, excluding education .....		9,755	9,976	9,968	9,728	9,688	9,644	9,843	10,062
Services .....		4,430.5	4,481.8	4,424.9	4,215.1	4,218.3	4,189.6	4,231.4	4,295.8
Social services .....		( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6,668.0
Services, except hospitals, education, and social services .....		227.2	200.7	200.5	136.4	125.8	114.1	117.9	114.7
Nonclassifiable establishments .....		146.6	174.4	164.7	158.7	166.2	166.9	177.9	187.9

<sup>1</sup> Not available.  
N.e.c. is an abbreviation for "not elsewhere classified" and designates broad categories of industries which cannot be more specifically identified.

NOTE: This table includes data for totals and some industry divisions which are published regularly.

**Table 8. Seasonal adjustment factors for employees on nonagricultural payrolls by industry**

Industry	1987									1988		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>Total<sup>1</sup></b>												
<b>Mining</b> .....	99.0	99.4	100.4	100.7	100.5	100.1	100.3	100.8	100.6	99.7	99.2	99.4
Oil and gas extraction .....	98.4	98.1	98.9	99.6	99.7	99.2	100.0	101.1	102.2	101.9	100.9	100.2
<b>Construction</b> .....	96.5	100.9	104.0	106.1	107.2	106.3	105.3	102.6	98.5	91.8	89.5	91.4
General building contractors .....	96.2	100.1	103.6	106.0	106.6	104.9	104.4	102.6	99.6	93.2	90.5	92.4
<b>Manufacturing<sup>1</sup></b>												
<b>Durable goods<sup>1</sup></b>												
Lumber and wood products .....	98.2	99.9	102.5	102.6	103.5	102.9	101.8	100.0	98.4	96.5	96.6	97.2
Furniture and fixtures .....	100.1	99.5	99.8	97.4	99.6	100.3	100.7	101.1	101.0	100.2	100.2	100.2
Stone, clay, and glass products <sup>2</sup> .....	99.2	100.8	102.3	101.9	102.5	102.5	101.9	100.7	98.8	96.5	95.8	97.3
Primary metal industries .....	100.6	100.8	101.0	99.0	99.9	99.9	99.2	99.3	99.6	100.1	100.2	100.5
Blast furnaces and basic steel products .....	100.6	100.9	101.2	100.5	100.3	99.6	98.4	98.6	99.6	100.1	99.9	100.4
Fabricated metal products .....	99.7	100.0	100.5	98.9	99.9	100.8	100.6	100.5	100.3	99.6	99.5	99.7
Machinery, except electrical <sup>2</sup> .....	100.1	100.1	100.4	99.6	99.4	99.9	99.8	99.9	100.2	100.0	100.2	100.5
Electrical and electronic equipment .....	99.7	99.8	100.4	99.6	100.0	100.4	100.2	100.2	100.2	99.9	99.8	99.7
Transportation equipment .....	100.1	100.2	100.4	99.0	98.2	100.4	100.1	100.6	100.8	99.9	100.3	100.2
Motor vehicles and equipment .....	100.0	100.4	101.0	98.7	96.6	100.9	100.3	100.8	101.6	99.3	100.1	100.4
Instruments and related products .....	99.9	99.9	100.5	100.0	100.2	100.0	99.9	100.0	100.1	99.8	99.8	100.0
Miscellaneous manufacturing .....	99.9	100.1	100.8	97.6	100.8	101.7	102.4	102.1	99.6	97.4	98.1	99.4
<b>Nondurable goods<sup>1</sup></b>												
Food and kindred products .....	96.2	97.6	100.3	102.3	105.5	105.3	102.7	100.9	99.5	96.8	96.5	96.4
Tobacco manufactures .....	94.4	93.5	94.4	93.2	101.0	108.0	108.0	102.7	104.5	103.7	100.0	96.7
Textile mill products <sup>2</sup> .....	100.1	100.0	100.5	98.2	100.5	100.8	100.5	100.4	100.1	99.6	99.5	99.6
Apparel and other textile products .....	100.3	100.3	101.1	96.6	100.1	100.7	100.9	100.5	99.9	99.2	100.2	100.2
Paper and allied products .....	99.5	99.7	101.1	100.2	100.6	100.2	100.2	100.1	100.1	99.5	99.3	99.5
Printing and publishing .....	100.1	99.9	100.1	99.7	99.7	99.7	100.0	100.4	100.5	99.9	100.0	100.1
Chemicals and allied products .....	99.8	99.8	100.8	100.6	100.5	100.2	99.9	99.8	99.7	99.4	99.6	99.9
Petroleum and coal products .....	99.7	100.9	102.0	102.2	101.9	100.7	100.0	99.6	98.4	97.9	97.9	98.7
Rubber and miscellaneous plastics products .....	100.2	100.2	100.8	98.9	99.9	100.3	100.2	100.0	99.9	99.6	99.9	100.1
Leather and leather products .....	99.6	100.3	101.6	94.8	101.5	101.2	101.6	101.9	100.7	98.7	99.0	99.2
<b>Transportation and public utilities<sup>1</sup></b>												
Transportation .....	99.2	100.3	100.9	99.6	99.7	101.5	101.6	101.0	101.2	98.5	98.3	98.5
Communication and public utilities .....	99.6	99.8	100.6	100.9	100.8	100.1	99.9	99.9	99.9	99.5	99.5	99.5
<b>Wholesale trade<sup>1</sup></b>												
Durable goods .....	99.8	100.0	100.5	100.5	100.5	100.1	100.2	100.1	100.0	99.5	99.4	99.5
Nondurable goods .....	99.3	99.7	100.5	100.5	100.6	100.8	101.0	100.6	100.3	99.0	98.8	99.0
<b>Retail trade</b> .....	98.9	100.0	100.8	100.4	100.7	100.5	100.3	101.5	103.4	98.5	97.3	97.8
General merchandise stores .....	96.3	97.0	97.8	97.7	98.0	98.5	100.8	106.7	112.4	102.2	96.5	96.2
Food stores .....	98.9	99.5	100.1	100.2	100.0	100.1	100.4	101.2	102.1	99.6	99.1	98.8
Automotive dealers and service stations .....	99.6	100.3	101.1	101.2	101.2	100.6	100.1	99.8	99.5	99.0	98.6	99.0
Eating and drinking places .....	99.9	101.9	103.3	102.8	103.1	102.8	100.1	99.1	99.1	95.3	95.5	97.2
<b>Finance, insurance, and real estate<sup>1</sup></b>												
Finance .....	99.6	99.8	100.7	101.0	100.8	99.9	99.7	99.7	99.9	99.6	99.5	99.7
Insurance .....	99.8	99.9	100.3	100.6	100.4	99.9	99.8	99.9	99.9	99.8	99.9	99.9
Real estate .....	99.1	100.6	102.7	103.6	103.6	101.6	100.0	99.1	99.3	96.8	96.5	97.1
<b>Services</b> .....	100.1	100.4	100.9	100.9	100.7	100.5	100.4	100.0	99.6	98.3	98.8	99.5
Business services .....	99.1	99.7	100.4	100.7	101.1	100.9	101.0	100.8	100.5	98.6	98.2	98.9
Health services .....	99.8	99.9	100.4	100.5	100.4	100.1	100.0	99.9	99.8	99.8	99.7	99.9
<b>Government<sup>1</sup></b>												
Federal <sup>2</sup> .....	99.9	100.4	101.4	101.6	100.9	99.3	99.3	99.3	99.7	99.2	99.3	99.8
State .....	102.6	101.4	97.2	94.6	94.3	98.2	102.4	103.0	102.0	99.2	102.4	102.6
Local .....	102.1	102.6	101.3	93.5	92.1	98.2	101.3	102.4	101.9	100.4	101.9	102.3

<sup>1</sup> Seasonally adjusted data are derived by aggregation of the component series.

<sup>2</sup> No ARIMA models were identified to extend the unadjusted

series for one year. Factors shown are projected using X-11 without the ARIMA option.

**Table 9. Seasonal adjustment factors for women employees on nonagricultural payrolls by industry**

Industry	1987									1988		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>Total<sup>1</sup></b>												
<b>Mining</b> .....	100.0	99.6	100.3	100.9	100.1	99.1	99.2	99.8	99.8	100.1	100.3	100.9
<b>Construction</b> .....	99.0	99.9	101.3	102.1	102.3	101.6	101.2	100.4	99.3	97.6	97.3	97.9
<b>Manufacturing<sup>1</sup></b>												
<b>Durable goods<sup>1</sup></b>												
Lumber and wood products .....	99.0	100.5	102.3	101.3	102.5	102.0	101.0	99.6	98.7	97.3	97.4	98.4
Furniture and fixtures .....	100.7	99.9	99.7	96.8	98.9	99.6	100.3	101.0	101.1	100.4	100.7	100.7
Stone, clay, and glass products .....	99.1	99.8	101.1	100.1	101.0	101.8	101.3	100.5	99.6	98.6	98.4	98.8
Primary metal industries .....	100.6	100.7	101.1	99.0	99.8	99.8	99.4	100.0	99.5	99.5	100.1	100.6
Fabricated metal products .....	100.0	100.3	100.6	98.4	99.7	100.5	100.5	100.5	100.3	99.6	99.6	99.9
Machinery, except electrical .....	100.3	100.4	100.6	99.6	99.1	99.2	99.5	99.8	100.1	100.1	100.5	100.8
Electrical and electronic equipment .....	99.8	100.0	100.4	99.2	99.9	100.3	100.3	100.4	100.4	99.9	99.7	99.7
Transportation equipment .....	99.8	99.9	100.4	99.8	99.1	100.6	100.3	100.5	100.3	99.7	100.0	99.8
Instruments and related products .....	100.2	100.0	100.6	99.4	100.0	99.9	99.9	100.2	100.1	99.8	99.8	100.2
Miscellaneous manufacturing .....	99.8	99.9	100.6	96.6	101.4	102.3	103.6	103.0	99.9	96.3	97.4	99.1
<b>Nondurable goods<sup>1</sup></b>												
Food and kindred products <sup>2</sup> .....	94.3	95.8	99.4	102.8	109.0	109.0	104.7	101.6	99.4	95.1	94.5	94.4
Tobacco manufactures .....	92.1	90.6	92.1	89.6	101.0	112.8	112.4	105.2	105.0	103.6	100.0	95.6
Textile mill products <sup>2</sup> .....	99.9	100.1	100.6	98.2	100.5	101.0	100.8	100.5	100.2	99.5	99.3	99.4
Apparel and other textile products .....	100.6	100.5	101.1	96.1	99.9	100.6	100.9	100.4	99.8	99.2	100.4	100.5
Paper and allied products .....	99.3	99.9	101.6	100.8	101.4	100.9	100.7	100.2	99.7	98.3	98.2	99.0
Printing and publishing .....	100.2	100.0	100.1	99.7	99.7	99.8	100.0	100.4	100.5	99.7	99.9	100.1
Chemicals and allied products .....	99.6	99.7	101.0	100.8	100.7	100.6	99.9	99.6	99.6	99.1	99.6	99.8
Petroleum and coal products .....	99.7	100.4	101.7	102.3	101.2	99.9	98.7	98.9	99.3	99.1	99.7	99.1
Rubber and miscellaneous plastics products .....	100.0	100.1	101.0	98.1	99.5	100.5	100.7	100.4	100.0	99.4	100.1	100.4
Leather and leather products .....	99.6	100.3	101.5	94.3	101.8	101.7	101.7	102.2	100.3	98.6	98.9	99.1
<b>Transportation and public utilities</b> .....	100.0	100.4	100.4	99.1	98.8	100.6	100.6	100.4	100.6	99.8	99.7	99.6
<b>Wholesale trade</b> .....	99.6	99.7	100.1	99.7	99.9	100.3	101.0	100.9	100.6	99.4	99.4	99.4
<b>Retail trade</b> .....	98.4	99.7	100.6	100.1	100.2	100.5	100.6	102.5	104.9	98.5	96.8	97.3
<b>Finance, insurance, and real estate</b> .....	99.8	100.0	100.7	100.9	100.8	99.9	99.7	99.7	99.9	99.5	99.4	99.7
<b>Services<sup>2</sup></b> .....	100.3	100.4	100.3	99.9	99.7	100.2	100.4	100.2	99.9	99.0	99.5	100.1
<b>Government<sup>1</sup></b>												
Federal .....	100.0	100.5	101.6	101.9	101.0	99.3	99.2	99.2	99.4	99.1	99.2	99.7
State .....	103.1	101.5	96.7	93.4	93.4	98.0	102.4	103.1	102.3	99.8	102.9	103.3
Local .....	103.5	103.8	100.8	88.6	87.6	97.6	102.1	103.8	103.1	101.7	103.4	103.8

<sup>1</sup> Seasonally adjusted data are derived by aggregation of the component series.

<sup>2</sup> No ARIMA models were identified to extend the unadjusted

series for one year. Factors shown are projected using X-11 without the ARIMA option.

**Table 10. Seasonal adjustment factors for production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry**

Industry	1987									1988		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>Total private<sup>2</sup></b>												
<b>Mining</b> .....	98.6	99.1	100.4	100.4	100.7	100.6	100.6	101.3	101.0	99.4	99.0	99.1
<b>Construction</b> .....	95.7	101.2	104.9	107.4	108.7	107.7	106.6	103.3	98.1	90.2	87.0	89.2
<b>Manufacturing<sup>2</sup></b>												
<b>Durable goods<sup>2</sup></b>												
Lumber and wood products .....	97.8	99.8	102.6	103.0	104.0	103.3	102.0	99.9	98.2	96.3	96.2	96.8
Furniture and fixtures .....	100.2	99.3	99.7	96.8	99.5	100.4	100.8	101.2	101.1	100.4	100.3	100.3
Stone, clay, and glass products .....	99.2	101.2	102.7	102.2	102.9	102.9	102.0	100.8	98.4	95.7	95.2	96.9
Primary metal industries .....	100.7	100.9	101.0	98.5	99.9	100.1	99.2	99.2	99.5	100.2	100.1	100.7
Blast furnaces and basic steel products .....	100.6	101.0	101.2	100.4	100.4	100.0	98.3	98.4	99.6	100.1	99.7	100.3
Fabricated metal products .....	99.7	100.1	100.7	98.6	99.8	101.0	100.8	100.6	100.3	99.4	99.3	99.7
Machinery, except electrical .....	100.4	100.2	100.4	99.0	98.8	99.8	99.7	99.8	100.3	100.2	100.5	100.9
Electrical and electronic equipment .....	99.8	99.8	100.2	98.7	99.6	100.5	100.4	100.5	100.3	100.2	100.0	99.9
Transportation equipment .....	100.4	100.6	100.5	98.0	96.5	100.4	100.1	100.8	101.4	100.1	100.6	100.7
Motor vehicles and equipment .....	100.3	100.9	101.3	97.9	95.0	100.8	100.3	101.2	102.1	99.3	100.2	100.8
Instruments and related products .....	100.1	100.1	100.8	99.5	100.0	99.9	99.6	100.1	100.2	99.8	99.8	100.3
Miscellaneous manufacturing .....	99.7	100.0	100.9	97.0	101.5	102.5	103.5	102.8	99.4	96.4	97.4	99.0
<b>Nondurable goods<sup>2</sup></b>												
Food and kindred products .....	95.0	96.6	100.2	102.9	107.5	107.3	103.7	101.3	99.3	95.8	95.3	95.2
Tobacco manufactures .....	92.5	91.2	92.3	91.0	101.2	110.9	110.9	104.0	106.2	104.6	99.8	95.4
Textile mill products <sup>3</sup> .....	100.1	100.1	100.6	98.0	100.6	100.9	100.6	100.4	100.2	99.6	99.4	99.6
Apparel and other textile products .....	100.3	100.5	101.2	96.2	100.1	100.8	101.1	100.6	99.8	98.9	100.2	100.3
Paper and allied products .....	99.5	99.8	101.3	100.1	100.6	100.3	100.1	100.2	100.0	99.4	99.2	99.5
Printing and publishing .....	100.5	100.2	100.1	99.4	99.5	99.6	99.9	100.4	100.8	99.7	99.8	100.0
Chemicals and allied products .....	100.0	99.9	101.0	100.4	100.4	100.3	99.7	99.6	99.7	99.2	99.8	100.1
Petroleum and coal products .....	99.6	100.9	102.1	102.6	102.5	101.5	100.8	100.1	97.4	97.2	97.1	98.2
Rubber and miscellaneous plastics products .....	100.3	100.3	100.8	98.5	99.6	100.3	100.3	100.2	100.0	99.6	100.0	100.4
Leather and leather products .....	99.5	100.3	101.8	94.4	101.9	101.4	101.8	102.1	100.4	98.5	98.9	99.1
<b>Transportation and public utilities</b> .....	99.3	100.1	100.8	100.0	100.0	101.0	100.9	100.6	100.9	98.8	98.7	98.9
<b>Wholesale trade</b> .....	99.4	99.8	100.5	100.6	100.7	100.5	100.7	100.4	100.2	99.1	99.0	99.1
<b>Retail trade</b> .....	98.8	100.0	100.9	100.4	100.6	100.5	100.3	101.7	103.7	98.4	97.1	97.6
<b>Finance, insurance, and real estate</b> .....	99.4	100.0	101.2	101.8	101.6	100.3	99.8	99.7	99.7	98.9	98.7	99.0
<b>Services</b> .....	100.1	100.5	100.9	100.9	100.7	100.5	100.5	100.1	99.5	98.1	98.7	99.4

<sup>1</sup> 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.

<sup>2</sup> Seasonally adjusted data are derived by aggregation of the

component series.

<sup>3</sup> No ARIMA models were identified to extend the unadjusted series for one year. Factors shown are projected using X-11 without the ARIMA option.

**Table 11. Seasonal adjustment factors for average weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry**

Industry	1987									1988		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>Total private<sup>2</sup></b>												
<b>Mining</b> .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
<b>Construction</b> .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
<b>Manufacturing<sup>2</sup></b>												
<b>Durable goods<sup>2</sup></b>												
Lumber and wood products .....	99.9	100.8	101.7	99.6	100.8	101.2	100.4	99.0	100.1	98.5	98.4	99.5
Furniture and fixtures .....	99.2	98.9	100.1	98.1	100.4	101.3	101.5	100.9	102.9	99.0	98.3	99.4
Stone, clay, and glass products .....	100.5	101.1	101.3	100.7	101.2	101.5	100.9	99.8	99.4	97.4	97.5	98.9
Primary metal industries .....	100.4	99.8	100.3	99.0	98.9	100.1	99.3	100.2	101.3	100.0	100.3	100.5
Blast furnaces and basic steel products .....	101.2	100.2	100.7	99.8	98.8	99.7	98.6	99.8	100.7	99.6	100.5	100.4
Fabricated metal products .....	99.3	99.6	100.4	98.5	99.4	100.3	100.1	100.4	102.5	99.8	99.5	100.1
Machinery, except electrical .....	99.5	99.6	100.2	98.4	99.0	100.1	99.6	100.5	102.6	100.1	99.8	100.5
Electrical and electronic equipment .....	99.2	99.4	100.0	98.4	99.5	100.3	99.9	101.0	102.7	100.2	99.5	99.9
Transportation equipment .....	100.1	99.9	100.0	98.3	98.1	99.7	99.6	100.4	103.1	100.5	99.7	100.7
Motor vehicles and equipment .....	100.5	100.3	100.3	98.2	97.4	99.6	99.4	99.8	103.6	100.6	99.6	100.8
Instruments and related products .....	99.4	99.3	100.1	98.4	99.1	100.1	99.4	100.8	102.6	100.1	100.0	100.7
Miscellaneous manufacturing .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
<b>Nondurable goods<sup>2</sup></b>												
Food and kindred products .....	98.8	100.0	100.1	100.0	101.0	101.5	100.4	100.6	101.2	99.5	98.3	98.7
Tobacco manufactures <sup>4</sup> .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Textile mill products .....	98.8	99.7	100.7	98.0	100.5	101.0	100.6	101.0	101.5	99.6	99.0	99.6
Apparel and other textile products .....	99.3	99.9	100.9	99.1	100.1	100.0	100.3	100.7	101.1	99.5	99.2	99.9
Paper and allied products .....	99.6	99.5	99.9	99.3	99.5	100.6	100.0	100.5	102.1	100.1	99.3	99.7
Printing and publishing .....	99.7	99.4	99.0	99.2	100.4	100.8	100.2	100.8	102.0	99.2	99.1	100.2
Chemicals and allied products .....	100.0	100.0	100.3	99.4	99.4	100.0	99.4	100.3	101.2	100.0	99.8	100.3
Petroleum and coal products .....	99.8	99.2	100.1	100.5	100.4	101.4	100.6	100.4	100.0	99.3	98.7	99.7
Rubber and miscellaneous plastics products .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Leather and leather products .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
<b>Transportation and public utilities</b> .....	99.4	99.5	100.7	100.6	100.7	100.3	100.0	100.3	100.4	98.7	99.6	99.9
<b>Wholesale trade</b> .....	99.7	100.1	100.4	100.4	100.3	100.2	100.1	100.1	100.6	99.6	99.1	99.5
<b>Retail trade</b> .....	99.1	99.8	101.3	102.4	102.4	100.0	99.5	99.3	101.8	97.8	97.8	98.9
<b>Finance, insurance, and real estate<sup>4</sup></b> .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
<b>Services</b> .....	99.8	99.8	100.4	101.0	101.1	99.8	99.9	99.7	99.9	99.3	99.5	99.7

<sup>1</sup> 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.

<sup>2</sup> Seasonally adjusted data are derived by aggregation of the component series.

<sup>3</sup> Seasonal adjustment factors are not computed because the

seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

<sup>4</sup> No ARIMA models were identified to extend the unadjusted series for one year. Factors shown are projected using X-11 without the ARIMA option.

**Table 12. Seasonal adjustment factors for average weekly overtime hours of production workers on manufacturing payrolls**

Industry	1987										1988		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
<b>Manufacturing<sup>1</sup></b>													
<b>Durable goods</b> .....	94.9	94.8	99.6	93.9	98.5	106.1	101.6	104.5	111.0	98.2	97.4	99.6	
<b>Nondurable goods</b> .....	94.1	94.8	99.5	98.3	106.5	110.6	103.2	102.9	104.1	95.5	94.4	96.3	

<sup>1</sup> Seasonally adjusted data are derived by aggregation of the component series.

**Table 13. Seasonal adjustment factors for average hourly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry**

Industry	1987										1988		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
<b>Total private<sup>2</sup></b>													
<b>Mining</b> .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	
<b>Construction</b> .....	99.5	99.6	99.1	99.2	99.7	100.8	100.9	99.7	101.0	100.5	100.2	99.8	
<b>Manufacturing</b> .....	100.1	99.9	99.9	100.0	99.3	99.8	99.5	100.0	100.6	100.5	100.3	100.3	
<b>Transportation and public utilities</b> .....	99.8	99.2	99.5	99.7	99.7	100.4	100.0	100.7	100.6	100.3	100.4	99.9	
<b>Wholesale trade<sup>4</sup></b> .....	100.1	99.8	99.9	99.8	99.4	100.2	99.5	99.9	100.5	100.2	100.5	100.0	
<b>Retail trade</b> .....	100.2	100.0	99.7	99.3	98.9	100.1	100.0	100.3	99.7	100.7	100.8	100.5	
<b>Finance, insurance, and real estate<sup>4</sup></b> .....	100.2	99.8	100.0	99.4	99.2	100.0	99.5	99.7	100.3	100.1	101.0	100.7	
<b>Services<sup>4</sup></b> .....	100.1	99.6	99.4	98.7	98.4	100.2	100.1	100.5	100.9	100.8	101.0	100.4	

<sup>1</sup> 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.

<sup>2</sup> Seasonally adjusted data are derived by aggregation of the component series.

<sup>3</sup> Seasonal adjustment factors are not computed because the

seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

<sup>4</sup> No ARIMA models were identified to extend the unadjusted series for one year. Factors shown are projected using X-11 without the ARIMA option.



**Table 14. Seasonal adjustment factors for the Hourly Earnings Index for production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry**

Industry	1987									1988		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>Total private<sup>2</sup></b>												
<b>Mining</b> .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
<b>Construction</b> .....	99.5	99.9	99.4	99.5	100.0	101.2	101.0	99.7	100.7	99.9	99.6	99.5
<b>Manufacturing<sup>2</sup></b>												
Durable goods .....	100.1	100.0	100.0	100.1	99.5	99.8	99.7	99.9	100.2	100.3	100.2	100.2
Nondurable goods .....	100.3	100.1	99.9	100.1	99.6	99.7	99.6	99.9	100.2	100.4	100.1	100.1
<b>Transportation and public utilities</b> .....	99.8	99.4	99.5	99.4	99.5	100.4	100.2	100.7	100.7	100.2	100.4	99.9
<b>Wholesale trade</b> .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
<b>Retail trade</b> .....	100.2	100.2	100.0	99.6	99.3	100.3	99.8	100.0	99.9	100.0	100.3	100.3
<b>Finance, insurance, and real estate</b> .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
<b>Services</b> .....	100.0	99.8	99.6	99.2	98.9	100.4	100.0	100.3	100.6	100.5	100.7	100.2

<sup>1</sup> 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.

<sup>2</sup> Seasonally adjusted data are derived by aggregation of the component series.

<sup>3</sup> Seasonal adjustment factors are not computed because the

seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

NOTE: The Hourly Earnings Index excludes the effects of two types of changes that are unrelated to underlying wage rate movements—fluctuations in overtime in manufacturing and interindustry employment shifts.

**HOUSEHOLD DATA  
HISTORICAL**

**A-1. Employment status of the noninstitutional population 16 years and over, 1953 to date**

(Numbers in thousands)

Year and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
Annual averages												
1953 <sup>1</sup> .....	109,287	65,246	59.7	63,410	2,231	61,179	6,260	54,919	1,834	2.8	44,041	
1954 .....	110,463	65,785	59.6	62,251	2,142	60,109	6,205	53,904	3,532	5.4	44,678	
1955 .....	111,747	67,087	60.0	64,234	2,064	62,170	6,450	55,722	2,852	4.3	44,660	
1956 .....	112,919	68,517	60.7	65,764	1,965	63,799	6,283	57,514	2,750	4.0	44,402	
1957 .....	114,213	68,877	60.3	66,019	1,948	64,071	5,947	58,123	2,859	4.2	45,336	
1958 .....	115,574	69,486	60.1	64,883	1,847	63,036	5,586	57,450	4,602	6.6	46,088	
1959 .....	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960	
1960 <sup>1</sup> .....	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 <sup>1</sup> .....	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 <sup>1</sup> .....	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091	
1973 <sup>1</sup> .....	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 <sup>1</sup> .....	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 <sup>1</sup> .....	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752	
Monthly data, seasonally adjusted <sup>2</sup>												
<b>1986:</b>												
May .....	181,998	119,274	65.5	110,852	1,687	109,165	3,151	106,014	8,422	7.1	62,724	
June .....	182,183	119,685	65.7	111,293	1,680	109,613	3,164	106,449	8,392	7.0	62,498	
July .....	182,354	119,789	65.7	111,559	1,672	109,887	3,124	106,763	8,230	6.9	62,565	
August .....	182,525	119,821	65.6	111,764	1,697	110,067	3,057	107,010	8,057	6.7	62,704	
September .....	182,713	119,988	65.7	111,703	1,716	109,987	3,142	106,845	8,285	6.9	62,725	
October .....	182,935	120,163	65.7	111,941	1,749	110,192	3,162	107,030	8,222	6.8	62,772	
November .....	183,114	120,426	65.8	112,183	1,751	110,432	3,215	107,217	8,243	6.8	62,688	
December .....	183,297	120,336	65.7	112,387	1,750	110,637	3,161	107,476	7,949	6.6	62,961	
<b>1987:</b>												
January .....	183,575	120,782	65.8	112,759	1,748	111,011	3,145	107,866	8,023	6.6	62,793	
February .....	183,738	121,089	65.9	113,122	1,740	111,382	3,236	108,146	7,967	6.6	62,649	
March .....	183,915	120,958	65.8	113,104	1,736	111,368	3,284	108,084	7,854	6.5	62,957	
April .....	184,079	121,070	65.8	113,570	1,735	111,835	3,290	108,545	7,500	6.2	63,009	
May .....	184,259	121,719	66.1	114,173	1,726	112,447	3,335	109,112	7,546	6.2	62,540	

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

<sup>2</sup> The population and Armed Forces figures are not adjusted for

seasonal variation.

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

**A-2. Employment status of the noninstitutional population 16 years and over by sex, 1976 to date**

(Numbers in thousands)

Sex, year, and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
<b>Annual averages</b>												
<b>MEN</b>												
1976 .....	75,341	58,756	78.0	54,720	1,582	53,138	2,744	50,394	4,036	6.9	16,585	
1977 .....	76,756	59,959	78.1	56,291	1,563	54,728	2,671	52,057	3,667	6.1	16,797	
1978 <sup>1</sup> .....	78,107	61,151	78.3	58,010	1,531	56,479	2,718	53,761	3,142	5.1	16,956	
1979 .....	79,509	62,215	78.2	59,096	1,489	57,607	2,686	54,921	3,120	5.0	17,293	
1980 .....	80,877	62,932	77.8	58,665	1,479	57,186	2,709	54,477	4,267	6.8	17,945	
1981 .....	82,023	63,486	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537	
1982 .....	83,052	63,979	77.0	57,800	1,529	56,271	2,736	53,534	6,179	9.7	19,073	
1983 .....	84,064	64,580	76.8	58,320	1,533	56,787	2,704	54,083	6,260	9.7	19,484	
1984 .....	85,156	65,386	76.8	60,642	1,551	59,091	2,668	56,423	4,744	7.3	19,771	
1985 .....	86,025	65,967	76.7	61,447	1,556	59,891	2,535	57,356	4,521	6.9	20,058	
1986 <sup>1</sup> .....	87,349	66,973	76.7	62,443	1,551	60,892	2,511	58,381	4,530	6.8	20,376	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1986:</b>												
May .....	87,195	66,854	76.7	62,201	1,533	60,668	2,510	58,158	4,653	7.0	20,341	
June .....	87,288	66,937	76.7	62,318	1,525	60,793	2,541	58,252	4,619	6.9	20,351	
July .....	87,373	66,968	76.6	62,402	1,518	60,884	2,486	58,398	4,566	6.8	20,405	
August .....	87,460	66,911	76.5	62,483	1,541	60,942	2,397	58,545	4,428	6.6	20,549	
September .....	87,556	67,128	76.7	62,528	1,560	60,968	2,495	58,473	4,600	6.9	20,428	
October .....	87,662	67,130	76.6	62,565	1,590	60,975	2,513	58,462	4,565	6.8	20,552	
November .....	87,773	67,407	76.8	62,833	1,592	61,241	2,506	58,735	4,574	6.8	20,366	
December .....	87,868	67,425	76.7	62,986	1,593	61,393	2,469	58,904	4,439	6.6	20,443	
<b>1987:</b>												
January .....	88,020	67,672	76.9	63,187	1,591	61,596	2,474	59,123	4,484	6.6	20,348	
February .....	88,099	67,764	76.9	63,335	1,584	61,751	2,544	59,207	4,429	6.5	20,335	
March .....	88,186	67,644	76.7	63,282	1,575	61,707	2,639	59,068	4,362	6.4	20,542	
April .....	88,271	67,603	76.6	63,417	1,575	61,842	2,664	59,178	4,186	6.2	20,668	
May .....	88,361	67,616	76.7	63,562	1,566	61,996	2,653	59,343	4,254	6.3	20,545	
<b>Annual averages</b>												
<b>WOMEN</b>												
1976 .....	82,476	39,069	47.4	35,701	86	35,615	588	35,027	3,369	8.6	43,406	
1977 .....	83,932	40,705	48.5	37,381	92	37,289	612	36,677	3,324	8.2	43,227	
1978 <sup>1</sup> .....	85,434	42,731	50.0	39,669	100	39,569	669	38,900	3,061	7.2	42,703	
1979 .....	86,951	44,343	51.0	41,325	108	41,217	661	40,556	3,018	6.8	42,608	
1980 .....	88,472	45,611	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,861	
1981 .....	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922	
1982 .....	90,887	47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993	
1983 .....	91,827	48,646	53.0	44,190	143	44,047	680	43,367	4,457	9.2	43,181	
1984 .....	92,924	49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,068	
1985 .....	93,886	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,686	
1986 <sup>1</sup> .....	94,944	52,568	55.4	48,861	155	48,706	652	48,054	3,707	7.1	42,376	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1986:</b>												
May .....	94,803	52,420	55.3	48,651	154	48,497	641	47,856	3,769	7.2	42,383	
June .....	94,895	52,748	55.6	48,975	155	48,820	623	48,197	3,773	7.2	42,147	
July .....	94,981	52,821	55.6	49,157	154	49,003	638	48,365	3,664	6.9	42,160	
August .....	95,065	52,910	55.7	49,281	156	49,125	660	48,465	3,629	6.9	42,155	
September .....	95,156	52,860	55.6	49,175	156	49,019	647	48,372	3,685	7.0	42,296	
October .....	95,253	53,033	55.7	49,376	159	49,217	649	48,568	3,657	6.9	42,220	
November .....	95,341	53,019	55.6	49,350	159	49,191	709	48,482	3,669	6.9	42,322	
December .....	95,429	52,911	55.4	49,401	157	49,244	672	48,572	3,510	6.6	42,518	
<b>1987:</b>												
January .....	95,556	53,110	55.6	49,572	157	49,415	671	48,744	3,538	6.7	42,446	
February .....	95,639	53,325	55.8	49,787	156	49,631	692	48,939	3,538	6.6	42,314	
March .....	95,729	53,314	55.7	49,822	161	49,661	645	49,016	3,492	6.6	42,415	
April .....	95,808	53,467	55.8	50,153	160	49,993	626	49,367	3,314	6.2	42,341	
May .....	95,898	53,903	56.2	50,611	160	50,451	681	49,769	3,292	6.1	41,995	

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

<sup>2</sup> The population and Armed Forces figures are not adjusted for seasonal variation.

**HOUSEHOLD DATA  
HISTORICAL**

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

(Numbers in thousands)

Year and month	Civilian noninstitutional population	Civilian labor force				Unemployment rates		
		Total	Percent of population	Employed	Unemployed	Total	Men	Women
<b>Annual averages</b>								
1953 <sup>1</sup> .....	107,056	63,015	58.9	61,179	1,834	2.9	2.8	3.3
1954 .....	108,321	63,643	58.8	60,109	3,532	5.5	5.3	6.0
1955 .....	109,683	65,023	59.3	62,170	2,852	4.4	4.2	4.9
1956 .....	110,954	66,552	60.0	63,799	2,750	4.1	3.8	4.8
1957 .....	112,265	66,929	59.6	64,071	2,859	4.3	4.1	4.7
1958 .....	113,727	67,639	59.5	63,036	4,602	6.8	6.8	6.8
1959 .....	115,329	68,369	59.3	64,630	3,740	5.5	5.2	5.9
1960 <sup>1</sup> .....	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 <sup>1</sup> .....	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 <sup>1</sup> .....	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 <sup>1</sup> .....	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 <sup>1</sup> .....	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 <sup>1</sup> .....	180,587	117,834	65.3	109,597	8,237	7.0	6.9	7.1
<b>Monthly data, seasonally adjusted<sup>2</sup></b>								
<b>1986:</b>								
May .....	180,311	117,587	65.2	109,165	8,422	7.2	7.1	7.2
June .....	180,503	118,005	65.4	109,613	8,392	7.1	7.1	7.2
July .....	180,682	118,117	65.4	109,887	8,230	7.0	7.0	7.0
August .....	180,828	118,124	65.3	110,067	8,057	6.8	6.8	6.9
September .....	180,997	118,272	65.3	109,987	8,285	7.0	7.0	7.0
October .....	181,186	118,414	65.4	110,192	8,222	6.9	7.0	6.9
November .....	181,363	118,675	65.4	110,432	8,243	6.9	6.9	6.9
December .....	181,547	118,586	65.3	110,637	7,949	6.7	6.7	6.7
<b>1987:</b>								
January .....	181,827	119,034	65.5	111,011	8,023	6.7	6.8	6.7
February .....	181,998	119,349	65.6	111,382	7,967	6.7	6.7	6.7
March .....	182,179	119,222	65.4	111,368	7,854	6.6	6.6	6.6
April .....	182,344	119,335	65.4	111,835	7,500	6.3	6.3	6.2
May .....	182,533	119,993	65.7	112,447	7,546	6.3	6.4	6.1

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

**Explanatory Notes.**

<sup>2</sup> The population figures are not adjusted for seasonal variation.

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

(Numbers in thousands)

Age, sex, and race	May 1987										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>TOTAL</b>											
16 years and over .....	182,533	119,695	65.6	112,377	7,318	6.1	62,838	28,310	8,564	3,104	22,860
16 to 19 years .....	14,595	7,823	53.6	6,445	1,376	17.6	6,772	411	5,856	28	477
16 to 17 years .....	7,521	3,315	44.1	2,610	705	21.3	4,207	96	3,956	7	148
18 to 19 years .....	7,074	4,508	63.7	3,835	673	14.9	2,565	316	1,899	21	330
20 to 24 years .....	19,048	14,948	78.5	13,427	1,520	10.2	4,100	1,581	1,666	105	749
25 to 54 years .....	98,991	81,865	82.7	77,950	3,915	4.8	17,127	12,094	1,015	1,118	2,901
25 to 34 years .....	42,265	35,215	83.3	33,160	2,056	5.8	7,050	5,102	709	282	957
25 to 29 years .....	21,447	17,879	83.4	16,722	1,157	6.5	3,569	2,487	454	142	486
30 to 34 years .....	20,818	17,337	83.3	16,438	898	5.2	3,481	2,615	255	141	470
35 to 44 years .....	33,638	28,377	84.4	27,190	1,186	4.2	5,261	3,785	244	380	852
35 to 39 years .....	18,439	15,567	84.4	14,875	693	4.5	2,872	2,114	158	188	418
40 to 44 years .....	15,200	12,809	84.3	12,315	494	3.9	2,390	1,677	85	192	434
45 to 54 years .....	23,088	18,273	79.1	17,600	673	3.7	4,815	3,206	62	458	1,091
45 to 49 years .....	12,207	10,004	82.0	9,627	377	3.8	2,204	1,553	43	192	414
50 to 54 years .....	10,881	8,269	76.0	7,974	295	3.6	2,612	1,652	19	264	678
55 to 64 years .....	21,855	11,975	54.8	11,532	443	3.7	9,880	5,090	14	722	4,053
55 to 59 years .....	11,067	7,249	65.5	6,987	262	3.6	3,818	2,270	10	363	1,175
60 to 64 years .....	10,788	4,726	43.8	4,545	181	3.8	6,062	2,820	4	359	2,878
65 years and over .....	28,043	3,084	11.0	3,023	62	2.0	24,958	9,134	13	1,131	14,680
65 to 69 years .....	9,709	1,863	19.2	1,828	35	1.9	7,847	2,956	5	250	4,638
70 to 74 years .....	7,571	762	10.1	744	18	2.4	6,808	2,560	6	232	4,007
75 years and over .....	10,763	459	4.3	451	8	1.7	10,304	3,618	3	649	6,035
<b>Men</b>											
16 years and over .....	86,795	66,172	76.2	62,094	4,078	6.2	20,623	518	4,347	1,679	14,079
16 to 19 years .....	7,321	4,025	55.0	3,266	759	18.9	3,296	12	2,998	17	269
16 to 17 years .....	3,824	1,748	45.7	1,365	383	21.9	2,076	2	1,989	1	84
18 to 19 years .....	3,497	2,277	65.1	1,901	376	16.5	1,220	10	1,009	16	185
20 to 24 years .....	9,238	7,871	85.2	7,063	807	10.3	1,367	33	877	66	391
25 to 54 years .....	48,358	45,344	93.8	43,160	2,185	4.8	3,015	206	465	761	1,583
25 to 34 years .....	20,784	19,672	94.7	18,550	1,123	5.7	1,112	85	344	191	492
25 to 29 years .....	10,533	9,899	94.0	9,278	621	6.3	635	45	246	90	254
30 to 34 years .....	10,251	9,774	95.3	9,272	501	5.1	477	40	98	101	238
35 to 44 years .....	16,406	15,460	94.2	14,805	655	4.2	946	58	95	281	512
35 to 39 years .....	9,016	8,533	94.6	8,155	378	4.4	484	33	67	147	236
40 to 44 years .....	7,390	6,927	93.7	6,650	277	4.0	463	25	27	134	276
45 to 54 years .....	11,168	10,212	91.4	9,804	407	4.0	957	62	26	290	579
45 to 49 years .....	5,903	5,517	93.5	5,289	228	4.1	387	24	14	123	225
50 to 54 years .....	5,265	4,695	89.2	4,516	179	3.8	570	38	12	167	354
55 to 64 years .....	10,267	7,009	68.3	6,720	289	4.1	3,258	78	3	413	2,765
55 to 59 years .....	5,247	4,220	80.4	4,049	171	4.0	1,027	29	2	219	777
60 to 64 years .....	5,020	2,789	55.6	2,671	118	4.2	2,231	49	1	194	1,988
65 years and over .....	11,610	1,923	16.6	1,885	38	2.0	9,687	190	5	422	9,070
65 to 69 years .....	4,393	1,121	25.5	1,100	21	1.9	3,272	66	2	121	3,084
70 to 74 years .....	3,248	504	15.5	492	12	2.4	2,744	41	3	101	2,598
75 years and over .....	3,969	298	7.5	293	5	1.7	3,671	83		200	3,388
<b>Women</b>											
16 years and over .....	95,738	53,523	55.9	50,283	3,240	6.1	42,215	27,792	4,217	1,425	8,781
16 to 19 years .....	7,275	3,798	52.2	3,179	619	16.3	3,476	400	2,858	11	208
16 to 17 years .....	3,697	1,567	42.4	1,245	322	20.5	2,131	94	1,968	6	63
18 to 19 years .....	3,577	2,232	62.4	1,934	297	13.3	1,346	306	890	5	145
20 to 24 years .....	9,810	7,077	72.1	6,364	713	10.1	2,733	1,548	789	38	357
25 to 54 years .....	50,633	36,521	72.1	34,791	1,731	4.7	14,112	11,888	550	357	1,318
25 to 34 years .....	21,481	15,543	72.4	14,610	933	6.0	5,938	5,018	365	91	465
25 to 29 years .....	10,914	7,980	73.1	7,444	536	6.7	2,934	2,442	208	52	232
30 to 34 years .....	10,567	7,563	71.6	7,166	397	5.3	3,004	2,575	157	40	232
35 to 44 years .....	17,232	12,917	75.0	12,385	532	4.1	4,315	3,726	149	99	341
35 to 39 years .....	9,423	7,034	74.7	6,720	315	4.5	2,388	2,074	91	41	182
40 to 44 years .....	7,810	5,882	75.3	5,665	217	3.7	1,927	1,652	58	58	158
45 to 54 years .....	11,920	8,061	67.6	7,796	265	3.3	3,859	3,144	36	167	513
45 to 49 years .....	6,304	4,487	71.2	4,338	149	3.3	1,817	1,529	29	89	189
50 to 54 years .....	5,616	3,574	63.6	3,458	116	3.2	2,042	1,614	7	97	324
55 to 64 years .....	11,587	4,966	42.9	4,812	154	3.1	6,622	5,012	12	310	1,288
55 to 59 years .....	5,620	3,029	52.0	2,937	91	3.0	2,791	2,240	8	145	397
60 to 64 years .....	5,768	1,937	33.6	1,874	63	3.2	3,831	2,772	3	165	891
65 years and over .....	16,433	1,161	7.1	1,138	24	2.0	15,272	8,944	9	709	5,610
65 to 69 years .....	5,316	742	14.0	728	14	1.9	4,575	2,890	3	129	1,554
70 to 74 years .....	4,323	258	6.0	252	6	2.3	4,064	2,519	3	131	1,409
75 years and over .....	6,794	161	2.4	158	3	1.7	6,633	3,535	3	449	2,647

**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	May 1987										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>WHITE</b>											
16 years and over .....	156,811	103,271	85.9	97,908	5,363	5.2	53,539	24,664	6,517	2,398	19,961
16 to 19 years .....	11,951	6,838	57.2	5,798	1,041	15.2	5,113	298	4,445	20	350
16 to 17 years .....	6,134	2,932	47.8	2,369	562	19.2	3,203	73	3,007	7	116
18 to 19 years .....	5,817	3,907	67.2	3,428	479	12.2	1,910	225	1,438	13	234
20 to 24 years .....	15,885	12,784	80.5	11,714	1,070	8.4	3,100	1,189	1,300	70	542
25 to 54 years .....	84,455	70,289	83.2	67,436	2,852	4.1	14,166	10,336	748	819	2,264
25 to 34 years .....	35,636	29,920	84.0	28,444	1,477	4.9	5,716	4,299	516	198	704
25 to 29 years .....	18,019	15,185	84.3	14,356	830	5.5	2,833	2,064	341	90	338
30 to 34 years .....	17,618	14,735	83.6	14,088	648	4.4	2,883	2,235	175	108	365
35 to 44 years .....	28,941	24,532	84.8	23,655	877	3.6	4,409	3,282	185	300	643
35 to 39 years .....	15,758	13,347	84.7	12,866	481	5.8	2,412	1,840	123	157	301
40 to 44 years .....	13,182	11,185	84.9	10,789	396	3.5	1,997	1,451	63	142	342
45 to 54 years .....	19,877	15,837	79.7	15,338	500	3.2	4,040	2,754	47	322	917
45 to 49 years .....	10,498	8,847	82.4	8,370	278	3.2	1,851	1,359	32	132	338
50 to 54 years .....	9,379	7,190	76.7	6,969	221	3.9	2,189	1,443	15	190	579
55 to 64 years .....	19,273	10,585	54.9	10,244	341	3.2	8,687	4,541	14	565	3,568
55 to 59 years .....	9,695	6,379	65.8	6,174	205	3.2	3,316	2,008	10	277	1,021
60 to 64 years .....	9,578	4,207	43.9	4,070	137	3.2	5,371	2,532	4	289	2,546
65 years and over .....	25,248	2,774	11.0	2,716	58	2.1	22,473	8,301	11	923	13,238
65 to 69 years .....	8,676	1,672	19.3	1,639	33	2.0	7,004	2,644	3	197	4,160
70 to 74 years .....	6,802	679	10.0	662	17	2.5	6,124	2,336	6	180	3,602
75 years and over .....	9,770	423	4.3	415	8	1.9	9,346	3,320	3	546	5,477
<b>Men</b>											
16 years and over .....	75,117	57,799	76.9	54,753	3,046	5.3	17,318	374	3,321	1,332	12,292
16 to 19 years .....	6,022	3,517	58.4	2,945	572	16.3	2,505	4	2,299	11	191
16 to 17 years .....	3,137	1,534	48.9	1,238	297	19.3	1,603	1	1,538	1	63
18 to 19 years .....	2,885	1,983	68.7	1,708	276	13.9	901	3	761	10	128
20 to 24 years .....	7,771	6,762	87.0	6,173	590	8.7	1,008	18	686	42	262
25 to 54 years .....	41,753	39,509	94.6	37,883	1,625	4.1	2,245	141	330	574	1,200
25 to 34 years .....	17,738	16,961	95.6	16,137	824	4.9	777	50	244	137	347
25 to 29 years .....	8,949	8,510	95.1	8,072	439	5.2	438	29	188	60	161
30 to 34 years .....	8,789	8,450	96.1	8,065	386	4.6	339	21	56	77	185
35 to 44 years .....	14,289	13,587	95.1	13,092	495	3.6	702	49	67	224	362
35 to 39 years .....	7,804	7,455	95.5	7,190	265	3.6	349	29	51	123	147
40 to 44 years .....	6,485	6,132	94.6	5,903	230	3.7	352	20	16	101	215
45 to 54 years .....	9,726	8,961	92.1	8,654	307	3.4	765	42	19	213	492
45 to 49 years .....	5,153	4,855	94.2	4,687	168	3.5	298	21	10	89	180
50 to 54 years .....	4,573	4,106	89.8	3,988	138	3.4	467	21	9	124	312
55 to 64 years .....	9,114	6,253	68.6	6,031	222	3.6	2,861	57	3	349	2,452
55 to 59 years .....	4,645	3,774	81.2	3,639	135	3.6	871	22	2	175	672
60 to 64 years .....	4,469	2,480	55.5	2,393	87	3.5	1,989	35	1	174	1,780
65 years and over .....	10,457	1,757	16.8	1,720	37	2.1	8,700	155	3	356	8,187
65 to 69 years .....	3,954	1,034	26.2	1,014	20	1.9	2,920	54	.	101	2,764
70 to 74 years .....	2,922	447	15.3	435	12	2.7	2,475	33	3	85	2,354
75 years and over .....	3,582	276	7.7	271	5	1.8	3,306	67		170	3,069
<b>Women</b>											
16 years and over .....	81,693	45,472	55.7	43,156	2,317	5.1	36,221	24,290	3,196	1,066	7,669
16 to 19 years .....	5,929	3,321	56.0	2,852	469	14.1	2,608	294	2,146	9	159
16 to 17 years .....	2,997	1,397	46.6	1,132	266	19.0	1,599	72	1,469	6	53
18 to 19 years .....	2,932	1,924	65.6	1,721	203	10.6	1,009	222	677	3	107
20 to 24 years .....	8,114	6,022	74.2	5,542	481	8.0	2,092	1,171	613	27	280
25 to 54 years .....	42,702	30,780	72.1	29,553	1,227	4.0	11,921	10,195	418	245	1,064
25 to 34 years .....	17,899	12,960	72.4	12,307	653	5.0	4,939	4,249	272	61	357
25 to 29 years .....	9,070	8,675	73.6	6,284	391	5.9	2,395	2,035	153	30	177
30 to 34 years .....	8,829	6,285	71.2	6,023	262	4.2	2,544	2,214	119	31	180
35 to 44 years .....	14,652	10,944	74.7	10,562	382	3.5	3,708	3,233	118	75	281
35 to 39 years .....	7,954	5,892	74.1	5,676	216	3.7	2,063	1,803	72	34	154
40 to 44 years .....	6,697	5,053	75.4	4,886	166	3.3	1,645	1,431	47	41	127
45 to 54 years .....	10,151	6,876	67.7	6,683	193	2.8	3,275	2,713	28	109	425
45 to 49 years .....	5,345	3,792	71.0	3,683	110	2.9	1,553	1,330	22	43	158
50 to 54 years .....	4,806	3,084	64.2	3,001	83	2.7	1,722	1,383	6	66	267
55 to 64 years .....	10,159	4,332	42.6	4,213	119	2.8	5,827	4,484	11	217	1,115
55 to 59 years .....	5,050	2,605	51.6	2,535	70	2.7	2,445	1,966	8	102	349
60 to 64 years .....	5,109	1,727	33.8	1,677	49	2.9	3,382	2,497	3	115	766
65 years and over .....	14,780	1,017	6.9	996	21	2.1	13,773	8,146	6	567	5,051
65 to 69 years .....	4,722	636	13.5	625	13	2.0	4,084	2,590	3	96	1,396
70 to 74 years .....	3,880	232	6.0	227	5	2.2	3,649	2,303	3	95	1,248
75 years and over .....	6,188	147	2.4	144	3	2.0	6,040	3,253	3	376	2,408

**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	May 1987										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>BLACK</b>											
16 years and over .....	20,312	12,861	63.3	11,119	1,742	13.5	7,451	2,881	1,502	644	2,425
16 to 19 years .....	2,161	819	37.9	514	305	37.3	1,342	99	1,115	6	122
16 to 17 years .....	1,122	311	27.7	163	128	41.1	811	18	764		29
18 to 19 years .....	1,039	508	48.9	331	178	34.9	531	82	351	6	92
20 to 24 years .....	2,587	1,795	69.4	1,380	415	23.1	792	338	242	31	182
25 to 54 years .....	11,123	8,889	79.9	7,957	932	10.5	2,234	1,296	144	264	529
25 to 34 years .....	5,127	4,135	80.6	3,617	517	12.5	992	597	102	80	213
25 to 29 years .....	2,653	2,113	79.6	1,822	291	13.8	540	320	50	50	120
30 to 34 years .....	2,473	2,022	81.8	1,796	226	11.2	451	278	52	30	93
35 to 44 years .....	3,543	2,909	82.1	2,637	272	9.3	635	358	31	70	176
35 to 39 years .....	2,039	1,704	83.6	1,518	187	11.0	334	197	16	27	96
40 to 44 years .....	1,504	1,205	80.1	1,120	84	7.0	300	161	16	43	80
45 to 54 years .....	2,453	1,846	75.3	1,702	144	7.8	607	341	11	114	140
45 to 49 years .....	1,299	1,021	78.6	942	79	7.7	278	157	8	50	63
50 to 54 years .....	1,154	825	71.5	760	65	7.9	329	184	3	64	78
55 to 64 years .....	2,095	1,108	52.9	1,021	87	7.9	987	448		142	398
55 to 59 years .....	1,099	687	62.5	640	47	6.8	412	213		77	122
60 to 64 years .....	997	421	42.3	381	40	9.6	575	235		65	276
65 years and over .....	2,346	250	10.6	247	3	1.1	2,096	700	1	201	1,194
65 to 69 years .....	856	152	17.8	150	2	1.3	703	243		49	411
70 years and over .....	1,491	98	6.6	98	1	1.0	1,392	457	1	151	782
<b>Men</b>											
16 years and over .....	9,111	6,483	71.2	5,580	904	13.9	2,628	115	720	315	1,477
16 to 19 years .....	1,064	432	40.6	268	164	38.0	632	7	543	4	77
16 to 17 years .....	566	178	31.6	103	75	42.2	387	1	365		21
18 to 19 years .....	498	254	50.9	165	89	35.0	245	7	178	4	55
20 to 24 years .....	1,179	914	77.5	717	197	21.6	265	10	121	22	113
25 to 54 years .....	4,981	4,397	88.3	3,919	478	10.9	584	52	56	170	305
25 to 34 years .....	2,315	2,077	89.7	1,813	264	12.7	238	29	45	51	113
25 to 29 years .....	1,198	1,064	88.8	905	159	15.0	134	14	23	29	68
30 to 34 years .....	1,116	1,013	90.7	908	105	10.4	103	16	22	21	45
35 to 44 years .....	1,577	1,390	88.1	1,247	143	10.3	188	4	6	51	126
35 to 39 years .....	908	807	88.9	705	102	12.7	101	4	2	23	73
40 to 44 years .....	669	583	87.0	542	40	6.9	87	1	5	28	53
45 to 54 years .....	1,089	931	85.5	859	72	7.7	158	19	5	68	66
45 to 49 years .....	577	497	86.2	457	40	8.0	79	4	3	33	40
50 to 54 years .....	512	433	84.6	401	32	7.4	79	15	2	35	27
55 to 64 years .....	943	611	64.8	548	63	10.3	332	16		57	260
55 to 59 years .....	497	362	72.9	327	35	9.6	135	6		39	90
60 to 64 years .....	447	249	55.8	220	28	11.4	197	10		17	171
65 years and over .....	945	130	13.7	129	1	.8	815	30		62	722
65 to 69 years .....	372	67	17.9	65	2	( <sup>1</sup> )	305	10		18	277
70 years and over .....	573	63	11.0	64	-	( <sup>1</sup> )	510	20		44	445
<b>Women</b>											
16 years and over .....	11,201	6,378	56.9	5,539	838	13.1	4,823	2,766	781	329	947
16 to 19 years .....	1,097	387	35.3	246	141	36.5	710	92	572	2	45
16 to 17 years .....	556	132	23.8	80	52	39.6	424	17	399		8
18 to 19 years .....	541	255	47.1	166	89	34.8	286	75	173	2	37
20 to 24 years .....	1,408	881	62.6	663	218	24.7	527	328	121	9	69
25 to 54 years .....	6,142	4,492	73.1	4,038	454	10.1	1,650	1,244	88	94	224
25 to 34 years .....	2,812	2,058	73.2	1,804	253	12.3	754	568	57	29	100
25 to 29 years .....	1,455	1,049	72.1	917	132	12.6	406	306	27	21	52
30 to 34 years .....	1,357	1,009	74.3	888	121	12.0	348	262	30	9	48
35 to 44 years .....	1,966	1,519	77.3	1,390	129	8.5	447	354	25	19	50
35 to 39 years .....	1,131	897	79.4	813	85	9.4	233	193	14	4	23
40 to 44 years .....	835	622	74.5	578	44	7.1	213	160	11	15	27
45 to 54 years .....	1,364	915	67.1	844	72	7.8	448	322	6	46	74
45 to 49 years .....	722	524	72.5	485	39	7.4	199	153	5	17	23
50 to 54 years .....	642	392	61.1	359	33	8.4	250	169	1	29	51
55 to 64 years .....	1,152	497	43.1	473	24	4.8	655	432		85	138
55 to 59 years .....	602	325	53.9	313	12	3.7	277	207		37	33
60 to 64 years .....	550	172	31.3	160	12	7.1	378	225		48	105
65 years and over .....	1,401	120	8.6	118	2	1.4	1,281	670	1	139	472
65 to 69 years .....	484	85	17.6	85	-	.4	398	233		31	134
70 years and over .....	918	35	3.8	34	1	( <sup>1</sup> )	882	437	1	107	337

<sup>1</sup> 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	May 1987								Not in labor force
	Civilian noninstitutional population	Civilian labor force							
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>TOTAL</b>									
16 years and over .....	25,723	16,424	63.9	14,469	242	14,226	1,955	11.9	9,298
16 to 19 years .....	2,644	985	37.2	647	9	638	337	34.3	1,860
16 to 17 years .....	1,387	383	27.6	240	2	238	143	37.3	1,004
18 to 19 years .....	1,257	602	47.9	407	7	400	195	32.3	655
20 to 24 years .....	3,164	2,163	68.4	1,713	34	1,679	450	20.8	1,000
25 to 54 years .....	14,538	11,578	79.6	10,513	136	10,378	1,061	9.2	2,961
25 to 34 years .....	6,629	5,295	79.9	4,716	62	4,654	579	10.9	1,334
25 to 29 years .....	3,430	2,693	78.5	2,366	26	2,340	328	12.2	735
30 to 34 years .....	3,200	1,397	43.6	2,350	37	2,313	251	18.0	598
35 to 44 years .....	4,697	3,845	81.9	3,535	38	3,498	310	8.1	852
35 to 39 years .....	2,680	2,221	82.9	2,009	19	1,990	212	9.5	459
40 to 44 years .....	2,017	1,625	80.8	1,527	19	1,508	98	6.0	392
45 to 54 years .....	3,211	2,436	75.9	2,263	36	2,227	173	7.1	775
45 to 49 years .....	1,709	1,357	79.4	1,258	13	1,244	100	7.4	352
50 to 54 years .....	1,502	1,079	71.8	1,005	23	983	74	6.9	423
55 to 64 years .....	2,562	1,390	53.8	1,288	41	1,247	102	7.3	1,192
55 to 59 years .....	1,371	870	63.4	812	20	792	57	6.6	502
60 to 64 years .....	1,210	520	42.9	475	21	455	44	8.5	691
65 years and over .....	2,795	310	11.1	306	22	284	4	1.2	2,485
65 to 69 years .....	1,033	191	18.5	188	7	180	2	1.0	843
70 to 74 years .....	768	83	10.6	82	9	74	1	1.2	684
75 years and over .....	994	36	3.6	36	8	30		( <sup>1</sup> )	958
<b>Men</b>									
16 years and over .....	11,678	8,373	71.7	7,341	214	7,127	1,032	12.3	3,304
16 to 19 years .....	1,299	507	39.1	321	9	312	187	36.8	791
16 to 17 years .....	687	214	31.1	127	2	125	86	40.5	473
18 to 19 years .....	612	294	48.0	194	7	186	100	34.1	318
20 to 24 years .....	1,468	1,109	75.5	891	32	859	218	19.7	359
25 to 54 years .....	6,606	5,836	88.3	5,275	115	5,160	559	9.6	770
25 to 34 years .....	3,047	2,712	89.0	2,413	51	2,362	298	11.0	335
25 to 29 years .....	1,585	1,388	87.6	1,206	19	1,187	183	13.1	196
30 to 34 years .....	1,462	1,323	90.5	1,207	33	1,175	116	8.8	138
35 to 44 years .....	2,117	1,873	88.4	1,713	30	1,682	160	8.5	245
35 to 39 years .....	1,212	1,078	88.9	965	14	951	113	10.5	134
40 to 44 years .....	905	795	87.8	748	16	732	47	5.9	110
45 to 54 years .....	1,442	1,251	86.7	1,150	34	1,116	101	8.1	191
45 to 49 years .....	750	662	88.2	602	13	589	60	9.0	88
50 to 54 years .....	692	589	85.1	548	21	527	41	7.0	103
55 to 64 years .....	1,153	756	65.6	689	35	654	67	8.9	397
55 to 59 years .....	602	446	74.1	411	17	394	36	8.1	156
60 to 64 years .....	551	310	56.2	278	19	260	31	10.1	242
65 years and over .....	1,152	166	14.4	165	22	143	1	.6	986
65 to 69 years .....	439	87	19.8	86	7	78	1	1.7	352
70 to 74 years .....	326	57	17.5	57	9	49		( <sup>1</sup> )	269
75 years and over .....	387	22	5.7	22	6	16		( <sup>1</sup> )	365
<b>Women</b>									
16 years and over .....	14,045	8,051	57.3	7,127	28	7,099	924	11.5	5,994
16 to 19 years .....	1,345	477	35.5	327	-	327	151	31.6	868
16 to 17 years .....	700	169	24.2	113	-	113	56	33.3	531
18 to 19 years .....	645	308	47.8	214	-	214	94	30.7	337
20 to 24 years .....	1,696	1,055	62.2	822	2	820	232	22.0	641
25 to 54 years .....	7,932	5,742	72.4	5,238	21	5,218	502	8.7	2,191
25 to 34 years .....	3,583	2,583	72.1	2,303	11	2,292	281	10.9	999
25 to 29 years .....	1,845	1,305	70.8	1,160	7	1,153	145	11.1	539
30 to 34 years .....	1,738	1,278	73.5	1,143	4	1,138	135	10.6	460
35 to 44 years .....	2,580	1,973	76.4	1,823	8	1,815	150	7.6	608
35 to 39 years .....	1,468	1,143	77.8	1,044	5	1,039	99	8.7	325
40 to 44 years .....	1,112	830	74.6	779	3	776	51	6.1	262
45 to 54 years .....	1,769	1,185	67.0	1,113	2	1,111	72	6.1	584
45 to 49 years .....	959	695	72.5	656	-	655	40	5.7	264
50 to 54 years .....	810	490	60.5	457	2	456	33	6.7	320
55 to 64 years .....	1,428	634	44.4	599	5	593	35	5.5	795
55 to 59 years .....	769	423	55.0	402	4	398	22	5.1	348
60 to 64 years .....	659	210	31.9	197	2	195	13	6.3	449
65 years and over .....	1,643	144	8.8	141	-	141	3	1.9	1,499
65 to 69 years .....	594	104	17.5	102	-	102	1	1.4	491
70 to 74 years .....	442	26	5.9	25	-	25	1	( <sup>1</sup> )	415
75 years and over .....	607	14	2.3	14	-	14		( <sup>1</sup> )	593

<sup>1</sup> Data not shown where base is less than 75,000.



A-6. Employment status of the civilian noninstitutional population by race, sex, and age

(Numbers in thousands)

Employment status and race	Total		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years	
	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987
<b>TOTAL</b>								
Civilian noninstitutional population .....	180,311	182,533	78,387	79,474	87,444	88,464	14,480	14,595
Civilian labor force .....	117,199	119,695	61,102	62,147	48,353	49,725	7,744	7,823
Percent of population .....	65.0	65.6	77.9	78.2	55.3	56.2	53.5	53.6
Employed .....	109,041	112,377	57,412	58,828	45,331	47,104	6,298	6,445
Agriculture .....	3,347	3,541	2,378	2,548	656	690	313	303
Nonagricultural industries .....	105,695	108,836	55,034	56,280	44,675	46,414	5,985	6,142
Unemployed .....	8,158	7,318	3,690	3,319	3,022	2,621	1,446	1,378
Unemployment rate .....	7.0	6.1	6.0	5.3	6.2	5.3	18.7	17.6
Not in labor force .....	63,112	62,838	17,285	17,327	39,090	38,739	6,737	6,772
<b>White</b>								
Civilian noninstitutional population .....	155,236	156,811	68,315	69,095	75,046	75,764	11,876	11,951
Civilian labor force .....	101,202	103,271	53,497	54,282	41,004	42,151	6,700	6,838
Percent of population .....	65.2	65.9	78.3	78.6	54.6	55.6	56.4	57.2
Employed .....	95,142	97,908	50,689	51,807	38,814	40,303	5,639	5,798
Agriculture .....	3,117	3,299	2,198	2,343	616	662	304	294
Nonagricultural industries .....	92,025	94,610	48,491	49,464	38,198	39,642	5,335	5,504
Unemployed .....	6,060	5,363	2,809	2,474	2,190	1,848	1,061	1,041
Unemployment rate .....	6.0	5.2	5.2	4.6	5.3	4.4	15.8	15.2
Not in labor force .....	54,034	53,539	14,817	14,814	34,042	33,613	5,176	5,113
<b>Black</b>								
Civilian noninstitutional population .....	19,943	20,312	7,887	8,047	9,922	10,104	2,134	2,161
Civilian labor force .....	12,713	12,861	5,938	6,051	5,896	5,991	879	819
Percent of population .....	63.7	63.3	75.3	75.2	59.4	59.3	41.2	37.9
Employed .....	10,872	11,119	5,189	5,311	5,146	5,294	537	514
Agriculture .....	180	177	144	153	28	18	8	6
Nonagricultural industries .....	10,692	10,942	5,045	5,158	5,118	5,276	529	508
Unemployed .....	1,840	1,742	749	740	750	697	342	305
Unemployment rate .....	14.5	13.5	12.6	12.2	12.7	11.6	38.9	37.3
Not in labor force .....	7,231	7,451	1,949	1,996	4,026	4,113	1,255	1,342

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	May 1987									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL ENROLLED</b>										
Total, 16 to 24 years .....	14,935	7,438	49.8	6,367	1,087	5,271	1,071	379	692	14.4
16 to 19 years .....	10,882	5,061	46.5	4,243	399	3,844	817	231	586	16.1
20 to 24 years .....	4,053	2,377	58.6	2,124	688	1,426	253	148	105	10.7
High school .....	9,292	4,178	45.0	3,435	240	3,195	744	183	561	17.8
College .....	5,643	3,259	57.8	2,932	857	2,076	327	196	131	10.0
Full-time students .....	4,811	2,546	52.9	2,259	411	1,848	286	175	111	11.2
Part-time students .....	832	714	85.8	673	445	228	41	21	20	5.7
Men, 16 to 24 years .....	7,561	3,697	48.9	3,133	586	2,547	565	191	374	15.3
16 to 19 years .....	5,541	2,553	46.1	2,124	233	1,892	429	108	321	16.8
20 to 24 years .....	2,021	1,144	56.6	1,009	353	655	136	82	53	11.9
High school .....	4,856	2,186	45.0	1,794	155	1,639	393	83	310	18.0
College .....	2,705	1,511	55.9	1,339	431	908	172	108	64	11.4
Full-time students .....	2,329	1,178	50.6	1,032	225	807	146	101	45	12.4
Part-time students .....	376	333	88.5	307	206	101	26	7	19	7.8
Women, 16 to 24 years .....	7,374	3,741	50.7	3,235	511	2,724	506	188	318	13.5
16 to 19 years .....	5,341	2,508	46.9	2,119	166	1,953	388	123	266	15.5
20 to 24 years .....	2,033	1,233	60.7	1,115	345	771	118	66	52	9.5
High school .....	4,436	1,992	44.9	1,641	85	1,556	351	101	251	17.6
College .....	2,938	1,749	59.5	1,594	426	1,168	155	88	87	8.9
Full-time students .....	2,482	1,368	55.1	1,227	187	1,041	140	74	66	10.3
Part-time students .....	456	381	83.6	366	239	127	15	14	1	3.9
<b>White</b>										
Total, 16 to 24 years .....	12,325	6,566	53.3	5,722	965	4,757	844	297	548	12.9
16 to 19 years .....	8,938	4,505	50.4	3,857	355	3,501	648	184	465	14.4
20 to 24 years .....	3,387	2,062	60.9	1,866	609	1,256	196	113	83	9.5
Men .....	6,279	3,285	52.3	2,834	512	2,322	452	154	298	13.7
Women .....	6,047	3,281	54.3	2,888	453	2,435	393	143	250	12.0
High school .....	7,520	3,704	49.3	3,120	206	2,914	564	143	442	15.8
College .....	4,805	2,863	59.6	2,603	759	1,844	260	154	106	9.1
Full-time students .....	4,077	2,226	54.6	1,998	365	1,633	228	140	88	10.3
Part-time students .....	728	636	87.4	605	394	211	32	13	18	5.0
<b>Black</b>										
Total, 16 to 24 years .....	1,992	676	33.9	473	87	386	203	76	127	30.0
16 to 19 years .....	1,542	449	29.1	298	31	267	151	44	107	33.6
20 to 24 years .....	449	227	50.5	175	56	119	52	32	20	22.8
Men .....	958	315	32.9	219	48	172	96	31	65	30.4
Women .....	1,034	361	34.9	254	39	214	107	45	62	29.6
High school .....	1,429	392	27.4	250	25	225	141	36	105	36.1
College .....	562	284	50.5	223	62	161	61	40	22	21.6
Full-time students .....	488	234	48.0	181	33	148	53	33	21	22.8
Part-time students .....	75	50	66.5	42	29	13	8	7	1	( <sup>2</sup> )
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	1,165	469	40.3	383	89	294	86	16	70	18.4
16 to 19 years .....	867	289	33.4	228	43	185	61	4	57	21.1
20 to 24 years .....	298	180	60.4	154	46	109	25	12	13	14.1
Men .....	604	245	40.6	192	52	140	53	9	44	21.8
Women .....	560	224	39.9	191	36	154	33	7	26	14.7
High school .....	785	255	32.5	196	33	162	60	4	56	23.4
College .....	380	214	56.3	187	55	132	27	13	14	12.5
Full-time students .....	285	135	47.3	113	12	101	22	11	11	16.4
Part-time students .....	94	79	83.7	74	44	30	5	2	3	5.9

See footnotes at end of table.

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	May 1987									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL NOT ENROLLED</b>										
Total, 16 to 24 years .....	18,709	15,333	82.0	13,505	11,563	1,942	1,828	1,666	162	11.9
16 to 19 years .....	3,714	2,762	74.4	2,202	1,639	563	561	511	50	20.3
20 to 24 years .....	14,995	12,570	83.8	11,303	9,924	1,380	1,267	1,155	112	10.1
Less than 4 years of high school .....	4,399	2,861	65.0	2,198	1,791	406	663	614	49	23.2
4 years of high school .....	9,203	7,872	85.5	7,119	6,087	1,032	753	684	69	9.6
1 to 3 years of college .....	3,508	3,091	88.1	2,759	2,350	408	332	290	42	10.7
4 years of college or more .....	1,598	1,509	94.4	1,430	1,334	95	80	78	1	5.3
<b>Men, 16 to 24 years .....</b>	<b>8,998</b>	<b>8,198</b>	<b>91.1</b>	<b>7,197</b>	<b>6,479</b>	<b>718</b>	<b>1,002</b>	<b>944</b>	<b>58</b>	<b>12.2</b>
16 to 19 years .....	1,780	1,472	82.7	1,142	893	249	330	298	32	22.4
20 to 24 years .....	7,218	6,727	93.2	6,055	5,586	469	672	646	26	10.0
Less than 4 years of high school .....	2,356	1,939	82.3	1,510	1,309	201	429	409	20	22.1
4 years of high school .....	4,365	4,124	94.5	3,740	3,404	336	383	363	20	9.3
1 to 3 years of college .....	1,545	1,429	92.5	1,278	1,139	139	151	135	16	10.5
4 years of college or more .....	731	707	96.7	668	626	42	38	36	2	5.4
<b>Women, 16 to 24 years .....</b>	<b>9,711</b>	<b>7,134</b>	<b>73.5</b>	<b>6,308</b>	<b>5,084</b>	<b>1,224</b>	<b>826</b>	<b>722</b>	<b>104</b>	<b>11.6</b>
16 to 19 years .....	1,934	1,291	66.8	1,060	746	313	231	213	18	17.9
20 to 24 years .....	7,777	5,844	75.1	5,249	4,338	911	595	509	86	10.2
Less than 4 years of high school .....	2,043	922	45.2	688	482	206	234	205	30	25.4
4 years of high school .....	4,837	3,748	77.5	3,378	2,682	696	369	321	49	9.9
1 to 3 years of college .....	1,963	1,662	84.6	1,481	1,211	270	181	155	26	10.9
4 years of college or more .....	868	803	92.5	761	708	53	41	42	-	5.2
<b>White</b>										
Total, 16 to 24 years .....	15,510	13,056	84.2	11,790	10,156	1,634	1,266	1,160	106	9.7
16 to 19 years .....	3,013	2,334	77.5	1,941	1,466	475	393	357	35	16.8
20 to 24 years .....	12,498	10,723	85.8	9,849	8,690	1,159	874	803	71	8.1
Men .....	7,514	6,994	93.1	6,284	5,678	606	710	671	39	10.2
Women .....	7,997	6,062	75.8	5,506	4,478	1,028	556	490	67	9.2
Less than 4 years of high school .....	3,429	2,344	68.4	1,906	1,581	326	438	407	31	18.7
4 years of high school .....	7,677	6,729	87.6	6,197	5,317	880	532	486	46	7.9
1 to 3 years of college .....	2,955	2,612	88.4	2,380	2,039	341	232	204	28	8.9
4 years of college or more .....	1,450	1,371	94.6	1,307	1,219	87	65	63	1	4.7
<b>Black</b>										
Total, 16 to 24 years .....	2,756	1,938	70.3	1,421	1,165	256	518	469	49	26.7
16 to 19 years .....	619	370	59.8	216	149	67	154	140	14	41.7
20 to 24 years .....	2,138	1,568	73.4	1,205	1,016	189	363	329	35	23.2
Men .....	1,284	1,031	80.3	765	671	94	266	250	16	25.8
Women .....	1,472	908	61.6	656	494	162	252	219	33	27.8
Less than 4 years of high school .....	842	433	51.4	223	166	57	209	192	18	48.4
4 years of high school .....	1,335	995	74.5	791	656	134	204	184	20	20.5
1 to 3 years of college .....	468	406	86.8	315	259	57	91	80	10	22.4
4 years of college or more .....	112	105	93.6	92	84	8	13	13	-	12.3
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,081	1,568	75.3	1,384	1,209	175	184	173	11	11.7
16 to 19 years .....	461	317	68.7	262	202	60	54	48	7	17.2
20 to 24 years .....	1,620	1,251	77.2	1,122	1,006	115	130	125	4	10.4
Men .....	1,072	987	92.1	878	803	74	109	105	4	11.0
Women .....	1,009	581	57.6	506	405	101	75	68	7	12.9
Less than 4 years of high school .....	1,044	701	67.1	586	522	63	115	106	9	16.4
4 years of high school .....	738	606	82.0	556	470	86	49	49	-	8.2
1 to 3 years of college .....	235	204	87.0	188	163	24	17	15	2	8.3
4 years of college or more .....	64	57	( <sup>2</sup> )	55	53	1	3	3	-	( <sup>2</sup> )

<sup>1</sup> 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.

<sup>2</sup> Data not shown where base is less than 75,000.

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	May 1986	May 1987	Total		Employed		Unemployed			
			May 1986	May 1987	May 1986	May 1987	Number		Percent of labor force	
							May 1986	May 1987	May 1986	May 1987
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over .....	7,733	7,836	7,164	7,250	6,831	6,937	333	313	4.6	4.3
30 to 44 years .....	6,403	6,260	6,094	5,974	5,795	5,723	299	251	4.9	4.2
30 to 34 years .....	1,173	956	1,094	912	1,008	841	86	71	7.9	7.8
35 to 39 years .....	3,125	2,663	2,978	2,538	2,837	2,433	141	105	4.7	4.1
40 to 44 years .....	2,105	2,641	2,022	2,524	1,950	2,449	72	75	3.6	3.0
45 years and over .....	1,330	1,576	1,070	1,276	1,036	1,214	34	62	3.2	4.9
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	18,264	19,321	17,255	18,244	16,357	17,405	898	839	5.2	4.6
30 to 34 years .....	8,464	8,812	8,062	8,403	7,621	8,009	441	394	5.5	4.7
35 to 39 years .....	5,610	6,137	5,305	5,787	5,052	5,526	253	261	4.8	4.5
40 to 44 years .....	4,190	4,372	3,888	4,054	3,684	3,870	204	184	5.2	4.5

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

are limited to those 30 to 44 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

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

(In thousands)

Sex, age, and race	May 1987							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules <sup>1</sup>	Part time for economic reasons, usually work full time	Total	Voluntary <sup>1</sup>	Part time for economic reasons, usually work part time		
<b>TOTAL</b>								
Total, 16 years and over .....	92,505	90,872	1,633	19,871	16,365	3,506	5,980	1,339
16 to 19 years .....	2,037	1,890	147	4,407	4,027	380	741	637
16 to 17 years .....	242	225	17	2,368	2,288	80	210	495
18 to 19 years .....	1,796	1,666	130	2,039	1,739	300	531	142
20 years and over .....	90,468	88,982	1,486	15,464	12,338	3,126	5,238	702
20 to 24 years .....	10,621	10,339	282	2,805	2,126	679	1,303	217
25 years and over .....	79,846	78,643	1,203	12,659	10,212	2,447	3,935	486
25 to 54 years .....	68,808	67,764	1,044	9,143	7,059	2,084	3,544	372
55 years and over .....	11,039	10,880	159	3,516	3,153	363	391	114
<b>Men, 16 years and over .....</b>	<b>55,648</b>	<b>54,642</b>	<b>1,006</b>	<b>6,445</b>	<b>5,067</b>	<b>1,378</b>	<b>3,524</b>	<b>554</b>
16 to 19 years .....	1,125	1,032	93	2,141	1,950	191	406	353
20 years and over .....	54,523	53,610	913	4,304	3,117	1,187	3,118	202
20 to 24 years .....	5,939	5,753	186	1,124	838	286	728	79
25 years and over .....	48,583	47,856	727	3,180	2,279	901	2,389	122
25 to 54 years .....	41,451	40,818	633	1,708	957	751	2,121	63
55 years and over .....	7,132	7,038	94	1,472	1,322	150	268	59
<b>Women, 16 years and over .....</b>	<b>36,857</b>	<b>36,230</b>	<b>627</b>	<b>13,426</b>	<b>11,298</b>	<b>2,128</b>	<b>2,456</b>	<b>784</b>
16 to 19 years .....	913	858	55	2,266	2,077	189	335	284
20 years and over .....	35,945	35,372	573	11,160	9,221	1,939	2,120	500
20 to 24 years .....	4,682	4,586	96	1,681	1,288	393	575	138
25 years and over .....	31,263	30,786	477	9,478	7,932	1,546	1,545	363
25 to 54 years .....	27,356	26,945	411	7,434	6,101	1,333	1,422	308
55 years and over .....	3,907	3,841	66	2,044	1,831	213	123	55
<b>White</b>								
<b>Men, 16 years and over .....</b>	<b>49,116</b>	<b>48,266</b>	<b>850</b>	<b>5,637</b>	<b>4,536</b>	<b>1,101</b>	<b>2,607</b>	<b>439</b>
16 to 19 years .....	1,001	922	79	1,944	1,789	155	302	271
20 years and over .....	48,115	47,344	771	3,693	2,747	946	2,305	169
20 to 24 years .....	5,188	5,025	163	984	750	234	523	66
25 years and over .....	42,925	42,318	607	2,708	1,996	712	1,782	102
25 to 54 years .....	36,488	35,958	530	1,395	800	595	1,574	51
55 years and over .....	6,437	6,360	77	1,314	1,197	117	208	51
<b>Women, 16 years and over .....</b>	<b>31,140</b>	<b>30,627</b>	<b>513</b>	<b>12,016</b>	<b>10,290</b>	<b>1,726</b>	<b>1,686</b>	<b>631</b>
16 to 19 years .....	821	772	49	2,032	1,878	154	239	229
20 years and over .....	30,320	29,855	465	9,984	8,412	1,572	1,447	401
20 to 24 years .....	4,111	4,030	81	1,432	1,132	300	393	87
25 years and over .....	26,210	25,826	384	8,553	7,281	1,272	1,054	314
25 to 54 years .....	22,823	22,498	325	6,730	5,623	1,107	963	265
55 years and over .....	3,388	3,328	60	1,822	1,657	165	91	49
<b>Black</b>								
<b>Men, 16 years and over .....</b>	<b>4,958</b>	<b>4,848</b>	<b>110</b>	<b>621</b>	<b>392</b>	<b>229</b>	<b>805</b>	<b>100</b>
16 to 19 years .....	103	91	12	164	133	31	94	70
20 years and over .....	4,855	4,757	98	457	259	198	710	30
20 to 24 years .....	615	603	12	102	58	44	186	11
25 years and over .....	4,240	4,154	86	354	200	154	525	18
25 to 54 years .....	3,687	3,615	72	232	96	136	468	11
55 years and over .....	553	539	14	123	104	19	57	7
<b>Women, 16 years and over .....</b>	<b>4,461</b>	<b>4,365</b>	<b>96</b>	<b>1,079</b>	<b>751</b>	<b>328</b>	<b>699</b>	<b>139</b>
16 to 19 years .....	76	72	4	171	144	27	90	51
20 years and over .....	4,386	4,293	93	908	607	301	609	88
20 to 24 years .....	458	444	14	206	121	85	174	44
25 years and over .....	3,928	3,850	78	703	487	216	435	43
25 to 54 years .....	3,527	3,454	73	512	337	175	415	38
55 years and over .....	402	396	6	191	150	41	20	5

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Family relationship	May 1987									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over <sup>1</sup> .....	97,922	66.1	91,763	6,159	6.3	50,214	23,230	7,915	2,268	16,801
Husbands .....	39,904	78.7	38,463	1,441	3.6	10,816	199	194	900	9,523
With employed wife .....	25,259	91.9	24,446	814	3.2	2,222	79	106	356	1,681
With unemployed wife .....	1,006	93.6	878	128	12.7	69	6	3	14	46
With wife not in labor force .....	13,639	61.5	13,139	500	3.7	8,524	114	85	530	7,796
Wives .....	28,557	56.3	27,482	1,075	3.8	22,163	18,231	348	356	3,228
With employed husband .....	25,324	65.8	24,446	878	3.5	13,139	11,756	277	102	1,004
With unemployed husband .....	941	65.3	814	128	13.6	500	446	10	9	35
With husband not in labor force .....	2,291	21.2	2,222	69	3.0	8,524	6,029	61	245	2,189
Relatives in married-couple families .....	13,806	64.1	12,112	1,694	12.3	7,744	725	5,247	360	1,411
16 to 19 years .....	5,322	54.6	4,527	795	14.9	4,434	101	4,075	15	243
20 to 24 years .....	5,131	77.0	4,549	582	11.3	1,536	135	1,054	51	296
25 years and over .....	3,353	65.4	3,036	317	9.5	1,774	489	118	294	872
Women who maintain families .....	6,562	62.1	5,944	617	9.4	4,003	2,850	154	209	790
Relatives in families maintained by women .....	5,277	58.2	4,332	945	17.9	3,785	807	1,629	305	1,044
16 to 19 years .....	1,341	46.0	974	367	27.3	1,577	85	1,337	8	147
20 to 24 years .....	1,642	73.6	1,341	301	18.3	588	142	216	32	197
25 years and over .....	2,294	58.6	2,017	277	12.1	1,620	580	76	265	700
Men who maintain families .....	2,092	76.0	1,936	157	7.5	660	44	28	67	520
Relatives in families maintained by men .....	1,724	62.3	1,494	230	13.3	1,044	374	315	71	285
16 to 19 years .....	312	52.0	234	78	25.1	288	13	252	1	23
20 to 24 years .....	492	80.2	425	66	13.5	121	34	47	2	39
25 years and over .....	921	59.2	835	86	9.3	635	327	16	68	223

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

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

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

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

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987
Total, 16 years and over .....	4,460	4,078	6.8	6.2	3,698	3,240	7.1	6.1
Married, spouse present .....	1,758	1,559	4.2	3.7	1,439	1,161	5.1	3.9
Widowed, divorced, or separated .....	548	507	8.6	7.5	765	714	7.5	7.0
Single (never married) .....	2,154	2,013	12.4	11.4	1,494	1,365	11.1	9.9
White, 16 years and over .....	3,364	3,046	5.9	5.3	2,696	2,317	6.1	5.1
Married, spouse present .....	1,429	1,286	3.8	3.4	1,167	952	4.6	3.6
Widowed, divorced, or separated .....	396	357	7.5	6.4	544	484	6.6	6.0
Single (never married) .....	1,539	1,403	10.6	9.5	984	881	9.0	7.9
Black, 16 years and over .....	939	904	14.6	13.9	901	838	14.3	13.1
Married, spouse present .....	259	217	8.4	6.9	220	174	9.4	7.3
Widowed, divorced, or separated .....	139	141	14.2	14.4	204	212	11.7	11.8
Single (never married) .....	541	546	22.7	23.1	477	452	21.8	20.5
Total, 25 years and over .....	2,725	2,512	5.1	4.6	2,213	1,908	5.4	4.5
Married, spouse present .....	1,620	1,437	4.1	3.6	1,176	941	4.5	3.5
Widowed, divorced, or separated .....	503	474	8.3	7.3	692	635	7.1	6.5
Single (never married) .....	601	601	8.1	7.7	346	331	6.3	5.8
White, 25 years and over .....	2,093	1,885	4.5	4.0	1,607	1,367	4.6	3.8
Married, spouse present .....	1,314	1,177	3.7	3.3	942	780	4.1	3.2
Widowed, divorced, or separated .....	356	333	7.1	6.3	483	425	6.2	5.5
Single (never married) .....	423	374	7.0	5.9	182	162	4.3	3.7
Black, 25 years and over .....	532	543	10.7	10.6	545	479	11.0	9.4
Married, spouse present .....	244	205	8.3	6.8	193	130	8.9	5.9
Widowed, divorced, or separated .....	135	133	14.3	13.8	194	195	11.4	11.1
Single (never married) .....	153	205	14.2	17.5	159	155	14.4	13.5

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-12. Unemployed persons by occupation and sex**

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987
Total, 16 years and over .....	8,158	7,318	7.0	6.1	6.8	6.2	7.1	6.1
Managerial and professional specialty .....	603	627	2.2	2.2	2.1	2.3	2.4	2.1
Executive, administrative, and managerial .....	317	362	2.5	2.7	2.2	2.6	3.0	2.9
Professional specialty .....	286	265	2.0	1.8	1.9	2.1	2.1	1.6
Technical, sales, and administrative support .....	1,699	1,539	4.8	4.2	4.1	3.8	5.2	4.4
Technicians and related support .....	81	109	2.5	3.3	2.4	3.7	2.6	2.8
Sales occupations .....	706	729	5.1	5.1	4.0	3.6	6.3	6.8
Administrative support, including clerical .....	912	700	5.0	3.7	5.2	4.3	4.9	3.6
Service occupations .....	1,378	1,197	8.7	7.3	8.0	7.5	9.1	7.2
Private household .....	59	52	5.7	5.5	( <sup>1</sup> )	( <sup>1</sup> )	5.9	5.4
Protective service .....	90	104	4.8	5.2	4.3	4.9	8.4	7.6
Service, except private household and protective .....	1,228	1,041	9.5	7.8	9.4	8.5	9.5	7.4
Precision production, craft, and repair .....	1,038	881	7.3	6.1	7.0	6.1	9.6	6.3
Mechanics and repairers .....	214	198	4.7	4.4	4.6	4.3	5.6	5.8
Construction trades .....	494	453	9.2	8.3	9.1	8.2	12.6	15.0
Other precision production, craft, and repair .....	330	230	7.6	5.3	6.9	5.3	9.9	5.4
Operators, fabricators, and laborers .....	2,024	1,806	10.4	9.4	10.1	9.0	11.5	10.7
Machine operators, assemblers, and inspectors .....	899	820	10.1	9.4	8.8	8.0	12.0	11.3
Transportation and material moving occupations .....	402	315	7.9	6.3	8.1	6.5	6.2	3.4
Handlers, equipment cleaners, helpers, and laborers .....	723	671	13.4	12.4	13.6	12.6	12.1	11.8
Construction laborers .....	187	178	19.2	18.0	18.5	17.5	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	537	493	12.1	11.2	12.4	11.2	11.1	11.2
Farming, forestry, and fishing .....	290	185	7.3	4.4	6.7	4.0	10.5	6.6
No previous work experience .....	1,063	1,033						
16 to 19 years .....	683	674						
20 to 24 years .....	241	230						
25 years and over .....	140	129						

<sup>1</sup> Data not shown where base is less than 75,000.



A-13. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987
Total, 16 years and over .....	8,158	7,318	7.0	6.1	6.8	6.2	7.1	6.1
Nonagricultural private wage and salary workers .....	6,102	5,436	7.0	6.1	6.9	6.3	7.1	5.9
Mining .....	139	104	13.8	13.1	14.3	14.3	11.1	5.6
Construction .....	743	696	12.0	11.2	12.4	11.6	7.9	6.8
Manufacturing .....	1,559	1,341	7.1	6.2	6.0	5.3	9.2	7.9
Durable goods .....	906	771	6.9	6.0	6.4	5.8	8.4	6.5
Lumber and wood products .....	67	30	10.1	4.3	10.3	3.1	9.2	11.0
Furniture and fixtures .....	55	39	8.5	6.2	7.2	6.6	11.4	5.1
Stone, clay, and glass products .....	44	34	7.2	5.9	8.2	5.9	3.7	5.7
Primary metal industries .....	73	71	8.7	8.1	9.0	7.5	7.3	11.4
Fabricated metal products .....	124	105	8.5	7.6	8.3	7.4	9.0	8.1
Machinery, except electrical .....	181	133	6.9	5.4	7.0	5.6	6.6	4.9
Electrical machinery, equipment, and supplies .....	134	121	5.8	5.4	3.7	5.3	8.8	5.5
Transportation equipment .....	140	165	5.2	6.1	4.1	5.6	9.3	8.0
Automobiles .....	95	117	7.3	9.0	5.5	8.1	13.6	12.7
Other transportation equipment .....	45	48	3.3	3.4	2.7	3.1	5.6	4.3
Professional and photographic equipment .....	43	39	5.8	5.6	4.8	5.5	7.1	5.7
Other durable goods industries .....	44	34	9.0	6.7	7.6	6.8	10.9	6.6
Nondurable goods .....	653	570	7.3	6.4	5.4	4.3	10.0	9.2
Food and kindred products .....	179	179	9.7	9.7	5.9	6.9	17.3	14.7
Textile mill products .....	52	33	6.8	4.2	5.6	2.5	8.1	6.1
Apparel and other textile products .....	146	150	10.6	11.2	9.8	6.3	10.8	12.7
Paper and allied products .....	37	27	5.1	3.4	3.8	3.2	9.8	3.7
Printing and publishing .....	71	82	3.9	4.4	4.4	3.4	3.2	5.8
Chemicals and allied products .....	71	46	5.8	3.9	4.9	3.2	7.6	5.6
Rubber and miscellaneous plastics products .....	66	23	9.1	3.3	6.5	2.1	14.3	5.2
Other nondurable goods industries .....	32	31	7.9	7.5	4.4	6.6	14.9	9.8
Transportation and public utilities .....	304	262	5.1	4.2	5.2	4.4	4.8	3.8
Transportation .....	225	204	6.7	5.7	7.2	5.9	5.3	4.9
Communications and other public utilities .....	79	59	3.0	2.3	2.2	1.9	4.4	2.9
Wholesale and retail trade .....	1,753	1,561	7.8	6.8	7.1	6.3	8.5	7.4
Wholesale trade .....	243	182	5.6	4.1	5.4	3.7	6.2	5.1
Retail trade .....	1,510	1,379	8.3	7.5	7.7	7.2	8.9	7.7
Finance, insurance, and real estate .....	230	210	3.4	3.0	3.8	3.1	3.2	2.9
Service industries .....	1,372	1,260	6.0	5.2	5.7	5.9	6.2	4.8
Professional services .....	515	426	4.1	3.2	3.0	3.4	4.6	3.1
Other service industries .....	857	834	8.4	7.8	7.8	7.9	9.0	7.8
Agricultural wage and salary workers .....	214	128	11.7	6.5	11.2	5.8	13.3	9.2
Government, self-employed, and unpaid family workers .....	781	722	2.9	2.6	3.1	2.8	2.7	2.4
No previous work experience .....	1,063	1,033	-	-	-	-	-	-

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Reason for unemployment	Total unemployed		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	8,158	7,318	3,690	3,319	3,022	2,621	1,446	1,378	6,060	5,363	1,840	1,742
Job losers .....	3,983	3,412	2,509	2,155	1,271	1,069	203	187	3,053	2,490	828	820
On layoff .....	1,007	815	637	505	328	277	42	32	845	649	132	152
Other job losers .....	2,976	2,597	1,872	1,650	943	792	161	155	2,208	1,841	696	669
Job leavers .....	898	830	423	399	354	332	121	99	686	699	179	114
Reentrants .....	2,219	2,044	611	616	1,165	1,009	443	418	1,598	1,464	537	515
New entrants .....	1,058	1,033	148	148	232	210	678	674	722	710	296	294
<b>PERCENT DISTRIBUTION</b>												
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 .....	48.8	46.6	68.0	64.9	42.0	40.8	14.1	13.5	50.3	46.4	45.0	47.1
On layoff .....	12.3	11.1	17.3	15.2	10.8	10.6	2.9	2.3	13.9	12.1	7.2	8.7
Other job losers .....	36.5	35.5	50.7	49.7	31.2	30.2	11.2	11.2	36.4	34.3	37.8	38.4
Job leavers .....	11.0	11.3	11.5	12.0	11.7	12.7	8.4	7.2	11.3	13.0	9.7	6.5
Reentrants .....	27.2	27.9	16.5	18.6	38.6	38.5	30.7	30.4	26.4	27.3	29.2	29.5
New entrants .....	13.0	14.1	4.0	4.5	7.7	8.0	46.9	48.9	11.9	13.2	16.1	16.8
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	3.4	2.9	4.1	3.5	2.7	2.2	2.6	2.4	3.0	2.4	6.5	6.4
Job leavers .....	.8	.7	.7	.6	.7	.7	1.6	1.3	.7	.7	1.4	.9
Reentrants .....	1.9	1.7	1.0	1.0	2.4	2.0	5.7	5.3	1.6	1.4	4.2	4.0
New entrants .....	.9	.9	.2	.2	.5	.4	8.8	8.6	.7	.7	2.3	2.3

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

(Percent distribution)

Reason, sex, and age	May 1987						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over .....	7,318	100.0	44.5	24.6	31.0	15.1	15.9
Job losers .....	3,412	100.0	32.5	26.0	41.5	20.1	21.4
On layoff .....	815	100.0	50.1	21.5	28.5	18.1	10.4
Other job losers .....	2,597	100.0	27.0	27.4	45.6	20.7	24.9
Job leavers .....	830	100.0	49.0	25.6	25.3	11.9	13.4
Reentrants .....	2,044	100.0	55.0	23.8	21.2	11.1	10.1
New entrants .....	1,033	100.0	59.6	20.6	19.9	9.1	10.8
Men, 20 years and over .....	3,319	100.0	34.4	24.8	40.8	18.3	22.4
Job losers .....	2,155	100.0	29.3	24.6	46.2	20.7	25.5
On layoff .....	505	100.0	45.7	20.7	33.6	19.7	13.9
Other job losers .....	1,650	100.0	24.2	25.8	50.0	20.9	29.0
Job leavers .....	399	100.0	44.4	25.8	29.8	12.6	17.2
Reentrants .....	616	100.0	43.2	27.0	29.8	14.5	15.2
New entrants .....	148	100.0	46.5	16.2	37.3	15.8	21.6
Women, 20 years and over .....	2,621	100.0	47.3	26.1	26.7	14.7	11.9
Job losers .....	1,069	100.0	36.2	28.6	35.2	19.6	15.6
On layoff .....	277	100.0	56.0	23.0	21.0	15.9	5.1
Other job losers .....	792	100.0	29.3	30.5	40.1	20.9	19.2
Job leavers .....	332	100.0	51.8	26.6	21.6	12.6	9.0
Reentrants .....	1,009	100.0	55.3	24.1	20.6	11.4	9.2
New entrants .....	210	100.0	58.0	21.5	20.5	9.0	11.4
Both sexes, 16 to 19 years .....	1,378	100.0	63.3	21.1	15.5	8.1	7.5
Job losers .....	187	100.0	48.9	27.3	23.8	16.5	7.3
On layoff .....	32	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other job losers .....	155	100.0	45.0	28.8	26.2	17.4	8.8
Job leavers .....	99	100.0	58.4	21.7	19.9	7.0	12.8
Reentrants .....	418	100.0	71.7	18.1	10.2	5.3	5.0
New entrants .....	674	100.0	62.9	21.2	15.9	7.6	8.2

<sup>1</sup> 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	
	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987
Total, 16 years and over .....	8,158	7,318	100.0	100.0	6,830	5,980	100.0	100.0
Less than 5 weeks .....	3,494	3,255	42.8	44.5	2,708	2,380	39.6	39.8
5 to 14 weeks .....	2,255	1,798	27.6	24.6	1,906	1,541	27.9	25.8
5 to 10 weeks .....	1,646	1,320	20.2	18.0	1,358	1,114	19.9	18.6
11 to 14 weeks .....	608	478	7.5	6.5	547	427	8.0	7.1
15 weeks and over .....	2,410	2,265	29.5	31.0	2,217	2,059	32.5	34.4
15 to 26 weeks .....	1,172	1,105	14.4	15.1	1,055	982	15.4	16.4
27 weeks and over .....	1,237	1,160	15.2	15.9	1,161	1,077	17.0	18.0
27 to 51 weeks .....	500	502	6.1	6.9	476	463	7.0	7.7
52 weeks and over .....	737	658	9.0	9.0	686	614	10.0	10.3
Average (mean) duration, in weeks .....	15.4	15.5			16.8	17.2		
Median duration, in weeks .....	6.9	6.6			8.0	8.2		

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								May 1986	May 1987	May 1986	May 1987
May 1987											
Total, 16 years and over .....	7,318	3,255	1,798	1,105	1,160	15.5	6.6	42.8	44.5	29.5	31.0
16 to 19 years .....	1,378	873	291	111	103	8.7	3.9	63.1	63.3	12.7	15.5
20 to 24 years .....	1,520	768	395	184	173	12.2	4.9	49.6	50.5	22.3	23.5
25 to 34 years .....	2,056	833	538	355	330	16.1	7.9	37.4	40.5	33.1	33.3
35 to 44 years .....	1,186	405	295	224	261	20.8	10.5	36.1	34.1	36.3	41.0
45 to 54 years .....	673	223	162	123	164	21.3	10.8	27.9	33.1	45.5	42.7
55 to 64 years .....	443	130	104	86	123	22.3	13.0	26.2	29.4	47.3	47.0
65 years and over .....	62	23	11	22	6	( <sup>1</sup> )	( <sup>1</sup> )	32.5	( <sup>1</sup> )	25.8	( <sup>1</sup> )
Men, 16 years and over .....	4,078	1,608	992	662	815	18.2	8.7	38.9	39.4	34.4	36.2
16 to 19 years .....	759	465	169	54	71	9.7	4.1	58.8	61.3	15.2	16.5
20 to 24 years .....	807	366	202	111	128	14.8	6.6	45.3	45.3	27.1	29.7
25 to 34 years .....	1,123	389	304	208	220	18.9	9.7	33.5	34.7	38.0	38.2
35 to 44 years .....	655	198	144	131	182	24.3	14.0	31.2	30.2	42.6	47.8
45 to 54 years .....	407	103	101	82	121	24.5	14.9	27.6	25.3	47.9	49.8
55 to 64 years .....	289	75	63	59	92	24.9	16.3	23.3	26.0	55.3	52.2
65 years and over .....	38	12	9	16	2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	3,240	1,647	806	443	345	12.1	4.9	47.6	50.8	23.7	24.3
16 to 19 years .....	619	408	123	57	32	7.5	3.8	68.0	65.9	9.9	14.3
20 to 24 years .....	713	403	193	73	45	9.3	4.4	54.7	56.5	16.5	16.5
25 to 34 years .....	933	443	234	146	110	12.7	5.7	42.0	47.5	27.2	27.4
35 to 44 years .....	532	207	152	93	80	16.6	8.3	41.7	38.9	29.2	32.5
45 to 54 years .....	265	120	61	41	44	16.3	6.4	28.3	45.1	42.3	31.9
55 to 64 years .....	154	55	41	26	31	17.4	7.7	30.4	36.0	35.5	37.4
65 years and over .....	24	11	2	6	4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	5,363	2,464	1,357	791	750	14.2	6.1	44.0	46.0	28.3	28.7
Men .....	3,046	1,250	751	498	547	16.9	7.9	40.5	41.0	32.3	34.3
Women .....	2,317	1,214	606	293	204	10.8	4.8	48.4	52.4	23.3	21.4
Black, 16 years and over .....	1,742	697	391	275	380	19.4	8.5	38.8	40.0	33.6	37.6
Men .....	904	301	210	146	246	22.9	10.9	33.2	33.3	41.5	43.4
Women .....	838	396	180	129	133	15.7	5.8	44.6	47.2	25.4	31.3
Men, 16 years and over:											
Married, spouse present .....	1,559	488	362	329	380	21.6	12.9	33.5	31.3	40.5	45.5
Widowed, divorced, or separated .....	507	142	156	81	127	21.5	10.9	26.5	28.1	45.1	41.0
Single (never married) .....	2,013	978	474	252	309	14.6	5.4	46.4	48.6	26.6	27.9
Women, 16 years and over:											
Married, spouse present .....	1,161	570	290	169	132	12.7	5.3	45.3	49.1	26.5	25.9
Widowed, divorced, or separated .....	714	280	214	116	105	15.4	7.5	34.6	39.2	31.7	30.8
Single (never married) .....	1,365	797	302	158	108	10.0	4.3	56.4	58.4	17.0	19.5

<sup>1</sup> 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	
	May 1987							May 1986	May 1987	May 1986	May 1987
<b>OCCUPATION</b>											
Managerial and professional specialty .....	627	254	187	87	99	15.7	7.5	42.2	40.5	31.7	29.7
Technical, sales, and administrative support .....	1,539	706	373	250	211	13.9	6.4	43.6	45.8	28.0	29.9
Service occupations .....	1,197	561	315	149	172	14.5	5.8	45.4	46.8	25.6	26.8
Precision production, craft, and repair .....	881	318	226	156	180	18.3	9.8	36.6	36.1	36.6	38.2
Operators, fabricators, and laborers .....	1,806	695	449	331	332	17.8	8.6	36.6	38.5	36.9	36.7
Farming, forestry, and fishing .....	185	93	22	30	41	18.8	5.0	41.5	49.9	24.6	38.3
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	128	71	20	17	21	14.1	4.5	38.8	55.3	22.7	29.1
Construction .....	736	278	173	146	140	16.9	10.0	34.4	37.7	39.6	38.8
Manufacturing .....	1,345	494	367	218	266	18.6	8.8	34.6	36.7	37.3	36.0
Durable goods .....	775	240	231	123	181	21.4	10.2	32.6	30.9	40.3	39.3
Nondurable goods .....	570	255	137	95	85	14.9	6.3	37.3	44.6	33.2	31.4
Transportation and public utilities .....	306	101	81	51	72	20.7	11.3	34.3	32.9	41.7	40.4
Wholesale and retail trade .....	1,574	692	451	231	201	13.3	6.5	45.7	43.9	26.4	27.4
Finance and service industries .....	1,710	814	391	255	248	14.9	5.8	43.9	47.6	28.7	29.5
Public administration .....	194	74	45	33	42	18.6	10.3	36.8	38.1	26.6	38.5
No previous work experience .....	1,033	615	212	94	111	11.7	4.2	57.8	59.6	16.4	19.9

<sup>1</sup> Includes wage and salary workers only.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Sex, age, and race	May 1987								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over .....	7,318	6,297	21.9	6.1	75.4	33.5	17.6	5.6	1.60
16 to 19 years .....	1,378	1,307	14.5	3.0	83.6	22.7	12.4	4.5	1.41
20 to 24 years .....	1,520	1,328	19.8	5.4	76.3	34.9	16.6	4.5	1.57
25 to 34 years .....	2,056	1,739	24.7	6.4	72.9	36.0	19.1	5.2	1.64
35 to 44 years .....	1,186	974	29.7	10.0	71.6	40.3	18.8	7.5	1.79
45 to 54 years .....	673	533	24.2	7.1	72.4	38.3	21.4	4.5	1.68
55 to 64 years .....	443	363	22.0	6.6	69.4	30.9	22.3	9.9	1.61
65 years and over .....	62	54	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Men, 16 years and over .....	4,078	3,430	23.7	6.6	78.0	33.7	19.3	6.3	1.68
16 to 19 years .....	759	728	16.1	2.6	85.6	24.0	12.5	4.0	1.45
20 to 24 years .....	807	682	22.1	5.3	79.8	33.7	19.1	4.3	1.64
25 to 34 years .....	1,123	941	26.6	7.0	76.0	35.1	22.3	6.1	1.73
35 to 44 years .....	655	506	36.4	12.1	72.9	45.1	20.9	9.5	1.97
45 to 54 years .....	407	313	21.7	9.9	77.6	37.7	22.0	5.8	1.75
55 to 64 years .....	289	227	19.4	6.2	67.8	28.6	23.8	13.7	1.59
65 years and over .....	38	33	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	3,240	2,867	19.8	5.4	72.3	33.4	15.6	4.7	1.51
16 to 19 years .....	619	578	12.5	3.5	81.0	21.1	12.3	5.0	1.35
20 to 24 years .....	713	645	17.4	5.6	72.7	36.1	14.0	4.8	1.51
25 to 34 years .....	933	798	22.4	5.6	69.3	37.1	15.3	4.3	1.54
35 to 44 years .....	532	468	22.4	7.7	70.1	35.3	18.6	5.3	1.59
45 to 54 years .....	265	221	27.6	3.2	64.7	38.9	20.4	2.7	1.57
55 to 64 years .....	154	135	26.7	7.4	72.6	34.8	20.0	3.7	1.65
65 years and over .....	24	21	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	5,363	4,534	19.6	6.3	75.8	34.9	17.6	5.8	1.60
Men .....	3,046	2,518	21.3	6.9	78.8	34.0	18.7	7.0	1.67
Women .....	2,317	2,016	17.5	5.5	72.2	36.1	16.2	4.2	1.52
Black, 16 years and over .....	1,742	1,574	28.4	5.6	75.2	29.9	16.8	4.3	1.60
Men .....	904	797	31.2	6.1	77.0	32.0	20.5	4.5	1.71
Women .....	838	777	25.5	5.1	73.4	27.7	13.3	4.1	1.49

<sup>1</sup> 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	May 1987								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over .....	7,318	6,297	21.9	6.1	75.4	33.5	17.6	5.6	1.60
Job losers <sup>1</sup> .....	3,412	2,589	28.1	7.1	76.2	36.6	20.4	5.3	1.74
Job leavers .....	830	794	22.9	8.8	70.9	42.1	21.0	3.5	1.69
Reentrants .....	2,044	1,906	17.7	5.2	74.9	31.5	14.2	6.5	1.50
New entrants .....	1,033	1,007	13.2	2.8	77.8	23.0	14.1	6.2	1.37
Men, 16 years and over .....	4,078	3,430	23.7	6.6	78.0	33.7	19.3	6.3	1.68
Job losers <sup>1</sup> .....	2,281	1,738	27.4	6.3	78.6	36.4	22.0	6.1	1.77
Job leavers .....	453	432	27.3	11.6	74.5	40.3	22.7	3.7	1.80
Reentrants .....	863	790	18.9	6.3	77.1	31.5	14.3	8.1	1.56
New entrants .....	480	470	14.9	3.8	80.4	21.3	14.5	6.2	1.41
Women, 16 years and over .....	3,240	2,867	19.8	5.4	72.3	33.4	15.6	4.7	1.51
Job losers <sup>1</sup> .....	1,130	851	29.6	8.9	71.4	37.0	17.2	3.6	1.68
Job leavers .....	377	362	17.7	5.5	66.9	44.2	19.1	3.0	1.56
Reentrants .....	1,180	1,118	17.0	4.4	73.2	31.4	14.0	5.2	1.45
New entrants .....	552	537	11.5	1.9	75.4	24.6	13.8	6.1	1.33

<sup>1</sup> Data on the number of jobseekers and the jobsearch methods used exclude persons on layoff.

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

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

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

(In thousands)

Industry and age	Total		Men		Women	
	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987
All industries .....	109,041	112,377	60,729	62,094	48,312	50,283
16 to 19 years .....	6,298	6,445	3,317	3,266	2,981	3,179
16 to 17 years .....	2,529	2,610	1,378	1,365	1,151	1,245
18 to 19 years .....	3,769	3,835	1,939	1,901	1,830	1,934
20 to 24 years .....	13,560	13,427	7,132	7,063	6,428	6,364
25 to 54 years .....	74,729	77,950	41,777	43,160	32,953	34,791
25 to 34 years .....	32,113	33,160	17,993	18,550	14,120	14,610
35 to 44 years .....	25,693	27,190	14,197	14,805	11,496	12,385
45 to 54 years .....	16,924	17,600	9,587	9,804	7,336	7,796
55 to 64 years .....	11,508	11,532	6,718	6,720	4,790	4,812
55 to 59 years .....	6,904	6,987	4,015	4,049	2,888	2,937
60 to 64 years .....	4,604	4,545	2,703	2,671	1,901	1,874
65 years and over .....	2,946	3,023	1,785	1,885	1,161	1,138
Agriculture .....	3,347	3,541	2,657	2,807	690	734
16 to 19 years .....	313	303	279	259	34	44
16 to 17 years .....	165	131	150	109	15	22
18 to 19 years .....	147	172	129	150	19	22
20 to 24 years .....	404	453	343	389	62	64
25 to 54 years .....	1,860	1,972	1,403	1,508	457	464
25 to 34 years .....	763	896	610	720	153	177
35 to 44 years .....	568	585	398	434	170	152
45 to 54 years .....	530	490	395	355	135	135
55 to 64 years .....	440	483	341	368	99	115
55 to 59 years .....	238	260	182	190	56	70
60 to 64 years .....	203	223	159	178	44	45
65 years and over .....	328	330	291	283	38	47
Nonagricultural industries .....	105,695	108,836	58,072	59,287	47,623	49,549
16 to 19 years .....	5,985	6,142	3,038	3,007	2,947	3,135
16 to 17 years .....	2,363	2,478	1,228	1,256	1,136	1,223
18 to 19 years .....	3,622	3,664	1,810	1,752	1,812	1,912
20 to 24 years .....	13,156	12,974	6,789	6,674	6,367	6,300
25 to 54 years .....	72,868	75,979	40,374	41,652	32,495	34,327
25 to 34 years .....	31,350	32,263	17,382	17,830	13,967	14,433
35 to 44 years .....	25,125	26,605	13,799	14,372	11,326	12,233
45 to 54 years .....	16,394	17,110	9,192	9,450	7,202	7,660
55 to 64 years .....	11,068	11,049	6,377	6,352	4,690	4,697
55 to 59 years .....	6,666	6,726	3,833	3,859	2,833	2,867
60 to 64 years .....	4,402	4,322	2,544	2,493	1,858	1,830
65 years and over .....	2,618	2,693	1,495	1,602	1,123	1,091

**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	
	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987
Total .....	109,041	112,377	60,729	62,094	57,412	58,828	48,312	50,283	45,331	47,104
Managerial and professional specialty .....	26,478	27,536	15,040	15,255	14,976	15,172	11,437	12,281	11,342	12,169
Executive, administrative, and managerial .....	12,556	13,117	7,986	8,129	7,953	8,090	4,570	4,988	4,531	4,946
Officials and administrators, public administration .....	519	519	311	303	311	303	207	216	207	216
Other executive, administrative, and managerial .....	8,619	9,099	5,820	5,995	5,789	5,959	2,798	3,104	2,782	3,070
Management-related occupations .....	3,418	3,499	1,854	1,831	1,853	1,828	1,564	1,668	1,541	1,659
Professional specialty .....	13,922	14,418	7,055	7,126	7,023	7,082	6,868	7,292	6,812	7,223
Engineers .....	1,671	1,658	1,584	1,529	1,584	1,530	88	128	86	128
Mathematical and computer scientists .....	630	673	418	461	417	461	213	213	211	213
Natural scientists .....	418	365	318	278	318	278	100	87	100	87
Health diagnosing occupations .....	724	739	611	628	611	628	114	111	114	109
Health assessment and treating occupations .....	2,046	2,134	322	286	319	285	1,725	1,849	1,723	1,845
Teachers, college and university .....	634	680	419	450	419	447	215	230	216	226
Teachers, except college and university .....	3,832	3,827	1,098	1,066	1,093	1,056	2,734	2,761	2,711	2,735
Lawyers and judges .....	624	723	499	571	500	571	124	152	124	153
Other professional specialty occupations .....	3,342	3,620	1,787	1,857	1,764	1,826	1,555	1,762	1,527	1,728
Technical, sales, and administrative support .....	33,735	34,868	11,870	12,316	11,309	11,720	21,865	22,552	20,241	20,884
Technicians and related support .....	3,164	3,234	1,712	1,646	1,681	1,626	1,452	1,588	1,430	1,568
Health technologists and technicians .....	1,017	1,112	154	171	148	170	862	941	859	935
Engineering and science technicians .....	1,125	1,094	930	871	919	861	196	223	187	220
Technicians, except health, engineering, and science .....	1,022	1,028	628	604	613	595	394	424	384	414
Sales occupations .....	13,134	13,463	6,762	7,085	6,396	6,707	6,372	6,378	5,444	5,432
Supervisors and proprietors .....	3,372	3,501	2,332	2,441	2,322	2,422	1,040	1,060	1,022	1,038
Sales representatives, finance and business services .....	2,259	2,341	1,291	1,349	1,278	1,340	968	992	936	954
Sales representatives, commodities, except retail .....	1,525	1,583	1,251	1,316	1,243	1,304	274	268	263	259
Sales workers, retail and personal services .....	5,913	5,981	1,864	1,955	1,529	1,617	4,050	4,026	3,189	3,149
Sales-related occupations .....	64	57	24	25	24	24	40	32	34	32
Administrative support, including clerical .....	17,437	18,171	3,396	3,585	3,232	3,388	14,041	14,587	13,367	13,884
Supervisors .....	681	659	266	275	266	273	414	384	414	383
Computer equipment operators .....	892	930	264	304	253	288	628	626	587	594
Secretaries, stenographers, and typists .....	4,907	5,033	104	90	90	88	4,804	4,942	4,558	4,725
Financial records processing .....	2,396	2,506	174	225	171	223	2,222	2,281	2,179	2,227
Mail and message distributing .....	854	937	573	621	560	593	281	315	270	302
Other administrative support, including clerical .....	7,707	8,107	2,015	2,069	1,892	1,922	5,692	6,038	5,357	5,653
Service occupations .....	14,512	15,125	5,679	5,909	4,782	4,983	8,834	9,216	7,803	8,066
Private household .....	974	899	40	29	31	20	934	870	761	694
Protective service .....	1,780	1,887	1,560	1,638	1,523	1,609	219	248	211	228
Service, except private household and protective .....	11,758	12,339	4,078	4,242	3,228	3,354	7,680	8,097	6,831	7,143
Food service .....	5,173	5,404	1,885	1,991	1,240	1,345	3,287	3,413	2,684	2,714
Health service .....	1,801	1,859	195	198	184	178	1,606	1,660	1,517	1,595
Cleaning and building service .....	2,744	2,849	1,611	1,639	1,463	1,464	1,133	1,209	1,071	1,137
Personal service .....	2,040	2,228	386	414	342	367	1,654	1,815	1,560	1,698
Precision production, craft, and repair .....	13,259	13,456	12,088	12,305	11,791	12,066	1,171	1,151	1,141	1,125
Mechanics and repairers .....	4,366	4,341	4,205	4,190	4,103	4,113	161	151	160	151
Construction trades .....	4,860	4,990	4,744	4,898	4,598	4,770	117	92	109	90
Other precision production, craft, and repair .....	4,033	4,125	3,140	3,217	3,090	3,183	893	907	872	884
Operators, fabricators, and laborers .....	17,361	17,381	12,931	12,938	11,837	11,907	4,430	4,443	4,261	4,262
Machine operators, assemblers, and inspectors .....	8,025	7,943	4,806	4,692	4,636	4,523	3,220	3,251	3,139	3,163
Manufacturing industries .....	6,702	6,646	3,959	3,870	3,834	3,745	2,743	2,776	2,686	2,708
Durable goods .....	3,667	3,628	2,536	2,469	2,466	2,412	1,131	1,159	1,104	1,134
Nondurable goods .....	3,035	3,018	1,423	1,401	1,368	1,333	1,612	1,617	1,582	1,574
Nonmanufacturing industries .....	1,323	1,297	847	822	802	778	476	475	453	455
Transportation and material moving occupations .....	4,656	4,714	4,219	4,310	4,043	4,180	437	404	429	399
Motor vehicle operators .....	3,410	3,508	3,003	3,155	2,868	3,039	406	353	399	348
Other transportation and material moving occupations .....	1,246	1,206	1,216	1,155	1,176	1,140	30	51	30	51
Handlers, equipment cleaners, helpers, and laborers .....	4,679	4,724	3,906	3,936	3,158	3,204	773	788	693	701
Construction laborers .....	786	810	761	799	672	732	25	11	24	11
Other handlers, equipment cleaners, helpers, and laborers .....	3,893	3,914	3,145	3,137	2,485	2,473	748	777	670	689
Farming, forestry, and fishing .....	3,695	4,012	3,120	3,371	2,717	2,980	575	641	543	598
Farm operators and managers .....	1,351	1,399	1,169	1,193	1,154	1,185	182	206	179	206
Other farming, forestry, and fishing occupations .....	2,344	2,612	1,950	2,178	1,564	1,796	394	435	365	392



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

(Percent distribution)

Occupation and race	Total		Men		Women	
	May 1986	May 1987	May 1986	May 1987	May 1986	May 1987
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	109,041	112,377	60,729	62,094	48,312	50,283
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	24.3	24.5	24.8	24.6	23.7	24.4
Executive, administrative, and managerial .....	11.5	11.7	13.2	13.1	9.5	9.9
Professional specialty .....	12.8	12.8	11.6	11.5	14.2	14.5
Technical, sales, and administrative support .....	30.9	31.0	19.5	19.8	45.3	44.8
Technicians and related support .....	2.9	2.9	2.8	2.7	3.0	3.2
Sales occupations .....	12.0	12.0	11.1	11.4	13.2	12.7
Administrative support, including clerical .....	16.0	16.2	5.6	5.8	29.1	29.0
Service occupations .....	13.3	13.5	9.4	9.5	18.3	18.3
Private household .....	.9	.8	.1	( <sup>1</sup> )	1.9	1.7
Protective service .....	1.6	1.7	2.6	2.6	.5	.5
Service, except private household and protective .....	10.8	11.0	6.7	6.8	15.9	16.1
Precision production, craft, and repair .....	12.2	12.0	19.9	19.8	2.4	2.3
Operators, fabricators, and laborers .....	15.9	15.5	21.3	20.8	9.2	8.8
Machine operators, assemblers, and inspectors .....	7.4	7.1	7.9	7.6	6.7	6.5
Transportation and material moving occupations .....	4.3	4.2	6.9	6.9	.9	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.3	4.2	6.4	6.3	1.6	1.6
Farming, forestry, and fishing .....	3.4	3.6	5.1	5.4	1.2	1.3
<b>White</b>						
Total, 16 years and over (thousands) .....	95,142	97,908	53,632	54,753	41,510	43,156
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	25.2	25.5	25.8	25.6	24.5	25.4
Executive, administrative, and managerial .....	12.1	12.3	13.9	13.8	9.9	10.5
Professional specialty .....	13.1	13.2	12.0	11.8	14.6	14.9
Technical, sales, and administrative support .....	31.5	31.5	20.0	20.2	46.4	45.9
Technicians and related support .....	2.9	2.9	2.8	2.7	3.0	3.2
Sales occupations .....	12.7	12.6	11.8	12.1	13.8	13.3
Administrative support, including clerical .....	15.9	16.0	5.3	5.4	29.5	29.5
Service occupations .....	12.2	12.2	8.3	8.4	17.2	17.0
Private household .....	.8	.7	.1	( <sup>1</sup> )	1.7	1.5
Protective service .....	1.6	1.5	2.4	2.4	.4	.4
Service, except private household and protective .....	9.9	10.0	5.8	6.0	15.1	15.0
Precision production, craft, and repair .....	12.6	12.4	20.5	20.5	2.3	2.2
Operators, fabricators, and laborers .....	15.0	14.6	20.1	19.8	8.4	8.1
Machine operators, assemblers, and inspectors .....	6.8	6.6	7.5	7.2	5.9	5.8
Transportation and material moving occupations .....	4.2	4.1	6.7	6.7	.9	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.0	3.9	5.9	5.9	1.6	1.5
Farming, forestry, and fishing .....	3.6	3.8	5.3	5.6	1.3	1.4
<b>Black</b>						
Total, 16 years and over (thousands) .....	10,872	11,119	5,493	5,580	5,379	5,539
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	14.9	15.1	12.9	13.3	17.0	16.9
Executive, administrative, and managerial .....	6.0	6.4	6.4	6.9	5.7	5.8
Professional specialty .....	8.9	8.7	6.5	6.4	11.4	11.0
Technical, sales, and administrative support .....	26.8	26.9	15.3	15.5	38.6	38.3
Technicians and related support .....	2.5	2.2	1.8	1.6	3.2	2.8
Sales occupations .....	7.0	6.6	5.3	4.6	8.7	8.6
Administrative support, including clerical .....	17.4	18.0	8.2	9.3	26.7	26.8
Service occupations .....	22.4	23.6	18.2	19.2	26.7	28.1
Private household .....	2.1	1.8	.2	.2	4.1	3.4
Protective service .....	2.4	3.2	4.1	5.5	.7	1.0
Service, except private household and protective .....	17.9	18.6	14.0	13.5	21.9	23.7
Precision production, craft, and repair .....	9.4	8.8	15.7	15.2	2.9	2.4
Operators, fabricators, and laborers .....	24.2	23.3	33.9	32.4	14.3	14.1
Machine operators, assemblers, and inspectors .....	11.5	10.5	11.6	10.7	11.4	10.3
Transportation and material moving occupations .....	5.7	5.8	10.3	10.4	1.1	1.2
Handlers, equipment cleaners, helpers, and laborers .....	7.0	6.9	12.0	11.3	1.9	2.5
Farming, forestry, and fishing .....	2.2	2.4	4.0	4.4	.4	.4

<sup>1</sup> Less than 0.05 percent.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Age and sex	May 1987								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self-employed workers	Unpaid family workers	Wage and salary workers	Self-employed workers	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over .....	100,475	1,265	16,910	82,301	8,093	268	1,846	1,501	194
16 to 19 years .....	6,073	290	307	5,477	62	7	228	26	48
16 to 17 years .....	2,452	205	81	2,167	23	3	95	12	25
18 to 19 years .....	3,621	85	226	3,310	38	5	134	14	24
20 to 24 years .....	12,680	121	1,150	11,410	274	20	383	55	16
25 to 34 years .....	30,332	210	4,445	25,678	1,874	57	574	287	35
35 to 44 years .....	24,053	189	5,167	18,697	2,480	72	267	295	24
45 to 54 years .....	15,395	156	3,463	11,776	1,657	58	200	265	25
55 to 64 years .....	9,759	179	2,002	7,578	1,253	37	125	329	30
55 to 59 years .....	5,959	101	1,260	4,598	744	23	72	171	17
60 to 64 years .....	3,799	77	742	2,980	509	14	52	157	13
65 years and over .....	2,184	122	376	1,686	493	16	70	244	16
Men, 16 years and over .....	53,842	238	8,015	45,589	5,403	42	1,464	1,265	78
16 to 19 years .....	2,965	102	135	2,728	39	3	194	26	39
16 to 17 years .....	1,238	85	50	1,103	17	-	80	12	18
18 to 19 years .....	1,727	17	85	1,625	21	3	115	14	21
20 to 24 years .....	6,486	25	519	5,942	177	11	323	53	13
25 to 34 years .....	16,618	38	2,077	14,503	1,207	5	449	257	14
35 to 44 years .....	12,774	20	2,401	10,353	1,593	4	197	232	5
45 to 54 years .....	8,281	11	1,672	6,597	1,162	7	140	213	2
55 to 64 years .....	5,474	21	1,015	4,439	873	4	102	267	-
55 to 59 years .....	3,357	10	656	2,691	502	1	55	135	-
60 to 64 years .....	2,118	11	359	1,748	372	3	46	132	-
65 years and over .....	1,244	21	195	1,028	353	6	59	218	6
Women, 16 years and over .....	46,634	1,027	8,895	36,712	2,690	226	382	236	116
16 to 19 years .....	3,108	188	172	2,749	23	4	34	1	10
16 to 17 years .....	1,214	120	31	1,064	6	2	15	-	7
18 to 19 years .....	1,894	68	141	1,685	17	2	19	-	3
20 to 24 years .....	6,194	96	631	5,468	98	8	60	1	3
25 to 34 years .....	13,714	172	2,368	11,175	667	52	125	31	21
35 to 44 years .....	11,279	169	2,766	8,344	887	68	70	63	19
45 to 54 years .....	7,114	145	1,791	5,179	496	50	60	52	23
55 to 64 years .....	4,284	158	987	3,139	380	33	23	62	30
55 to 59 years .....	2,603	92	603	1,908	242	22	17	37	17
60 to 64 years .....	1,681	66	384	1,231	137	11	6	26	13
65 years and over .....	940	101	181	658	140	11	10	26	10

**A-25. Employed civilians by industry and occupation**

(In thousands)

Industry	May 1987												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service <sup>1</sup>		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture .....	3,541	79	48	18	30	91	18	34	8	55	29	3,131	
Mining .....	718	101	51	23	13	98	4	233	22	133	40	1	
Construction .....	7,426	974	108	41	80	442	32	4,197	94	531	903	24	
Manufacturing .....	20,862	2,210	1,679	709	752	2,407	352	4,010	6,646	829	1,176	92	
Durable goods .....	12,331	1,362	1,163	511	330	1,356	187	2,771	3,628	419	529	74	
Nondurable goods .....	8,531	848	516	198	422	1,051	166	1,239	3,018	410	647	18	
Transportation and public utilities .....	7,811	888	469	231	328	2,124	269	1,231	106	1,705	449	10	
Wholesale and retail trade .....	23,334	1,916	384	110	9,660	2,410	4,423	1,549	278	915	1,651	37	
Wholesale trade .....	4,577	466	73	51	1,745	861	44	345	129	484	366	14	
Retail trade .....	18,757	1,450	311	59	7,915	1,549	4,380	1,204	149	431	1,286	23	
Finance, insurance, and real estate .....	7,644	1,868	201	139	1,805	3,065	-	276	145	17	26	84	
Services .....	35,792	4,020	10,785	1,781	776	6,033	899	7,537	1,784	718	485	586	
Private households .....	1,273	3	5	11	2	15	899	119	10	2	7	186	
Other service industries .....	34,519	4,017	10,780	1,769	774	6,018	-	7,418	1,774	717	478	399	
Professional services .....	23,159	2,295	9,662	1,462	107	4,351	-	4,223	422	141	294	111	
Public administration .....	5,250	1,062	694	182	20	1,500	-	1,315	274	54	43	60	

<sup>1</sup> 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					
	May 1986	May 1987	Total		Wage and salary workers <sup>1</sup>			
			May 1986	May 1987	Paid absences		Unpaid absences	
					May 1986	May 1987	May 1986	May 1987
Total, 16 years and over .....	4,097	4,403	4,029	4,334	1,978	2,082	1,624	1,789
Vacation .....	1,821	1,981	1,797	1,945	1,248	1,345	409	449
Illness .....	1,233	1,296	1,217	1,276	513	515	612	665
Bad weather .....	41	28	30	24	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	18	32	18	32	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons .....	985	1,067	967	1,057	218	222	603	675
Men, 16 years and over .....	2,072	2,239	2,016	2,200	1,086	1,133	687	789
Vacation .....	966	1,054	953	1,032	713	777	170	162
Illness .....	675	671	659	665	298	268	305	342
All other reasons <sup>3</sup> .....	430	513	405	503	75	88	212	285
Women, 16 years and over .....	2,025	2,165	2,013	2,134	892	948	937	1,002
Vacation .....	855	927	844	913	534	566	238	287
Illness .....	557	625	558	611	215	247	309	323
All other reasons <sup>3</sup> .....	612	613	610	610	143	134	391	391

<sup>1</sup> Excludes private household workers.

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Hours of work	May 1987					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	107,974	3,471	104,502	100.0	100.0	100.0
1 to 34 hours .....	24,929	949	23,981	23.1	27.3	22.9
1 to 4 hours .....	815	55	760	.8	1.6	.7
5 to 14 hours .....	4,679	227	4,452	4.3	6.5	4.3
15 to 29 hours .....	12,456	458	11,998	11.5	13.2	11.5
30 to 34 hours .....	6,979	209	6,771	6.5	6.0	6.5
35 hours and over .....	83,044	2,523	80,522	76.9	72.7	77.1
35 to 39 hours .....	7,429	164	7,266	6.9	4.7	7.0
40 hours .....	44,136	616	43,520	40.9	17.7	41.6
41 hours and over .....	31,479	1,743	29,736	29.2	50.2	28.5
41 to 48 hours .....	11,374	275	11,099	10.5	7.9	10.6
49 to 59 hours .....	11,437	437	11,001	10.6	12.6	10.5
60 hours and over .....	8,668	1,031	7,636	8.0	29.7	7.3
Average hours, total at work .....	39.4	45.8	39.1			
Average hours, workers on full-time schedules .....	43.9	54.4	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	May 1987					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over .....	24,929	6,180	18,749	23,981	5,961	18,020
Economic reasons .....	5,139	1,633	3,506	4,898	1,538	3,360
Slack work .....	2,156	1,211	945	2,013	1,128	885
Material shortages or repairs to plant and equipment .....	73	73	-	69	69	-
New job started during week .....	281	281	-	273	273	-
Job terminated during week .....	67	67	-	66	66	-
Could find only part-time work .....	2,561	-	2,561	2,475	-	2,475
Other reasons .....	19,791	4,548	15,243	19,083	4,423	14,660
Does not want, or unavailable for, full-time work .....	12,874	-	12,874	12,423	-	12,423
Vacation .....	1,382	1,382	-	1,374	1,374	-
Illness .....	1,453	1,298	155	1,413	1,276	137
Bad weather .....	224	224	-	180	180	-
Industrial dispute .....	2	2	-	2	2	-
Legal or religious holiday .....	10	10	-	9	9	-
Full time for this job .....	1,634	-	1,634	1,590	-	1,590
All other reasons .....	2,210	1,630	580	2,092	1,582	510
Average hours:						
Economic reasons .....	22.0	24.3	21.0	22.2	24.3	21.2
Other reasons .....	20.8	26.4	19.1	20.8	26.5	19.1
Worked 30 to 34 hours:						
Economic reasons .....	1,622	718	904	1,550	676	874
Other reasons .....	5,357	2,514	2,843	5,221	2,453	2,768

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

(Numbers in thousands)

Industry	May 1987								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over .....	104,502	4,898	14,660	84,944	55,208	11,099	18,637	39.1	43.6
Wage and salary workers .....	96,576	4,396	13,242	78,938	52,601	10,513	15,824	38.9	43.2
Mining .....	642	23	19	600	337	87	176	44.6	46.1
Construction .....	5,814	438	267	5,109	3,376	652	1,081	40.8	43.5
Manufacturing .....	19,734	534	616	18,584	12,010	3,146	3,428	41.9	43.1
Durable goods .....	11,702	210	269	11,223	7,287	1,825	2,111	42.3	43.1
Nondurable goods .....	8,032	323	347	7,362	4,722	1,322	1,318	41.3	43.1
Transportation and public utilities .....	7,081	247	377	6,457	4,303	810	1,344	41.8	43.8
Wholesale and retail trade .....	20,647	1,423	4,962	14,262	8,630	2,153	3,479	36.6	43.9
Finance, insurance, and real estate .....	6,766	134	662	5,970	4,189	689	1,092	39.6	42.2
Service industries .....	30,874	1,531	6,075	23,268	16,231	2,526	4,511	37.0	42.9
Private households .....	1,246	212	603	431	267	40	124	24.8	47.4
All other industries .....	29,628	1,319	5,472	22,837	15,964	2,486	4,387	37.5	42.8
Public administration .....	5,018	66	265	4,687	3,524	450	713	40.8	42.3
Self-employed workers .....	7,658	493	1,311	5,854	2,527	572	2,755	41.7	49.0
Unpaid family workers .....	268	9	107	152	81	14	57	35.5	46.3

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Sex, age, race, and marital status	May 1987							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
<b>TOTAL</b>								
Total, 16 years and over .....	104,502	4,898	14,660	84,944	55,208	29,736	39.1	43.6
16 to 19 years .....	5,932	513	3,716	1,703	1,332	371	23.6	40.3
16 to 17 years .....	2,396	93	2,116	187	147	40	17.0	38.2
18 to 19 years .....	3,536	419	1,600	1,517	1,186	331	28.1	40.5
20 years and over .....	98,570	4,385	10,943	83,242	53,877	29,365	40.1	43.6
20 to 24 years .....	12,558	915	1,928	9,715	6,842	2,873	37.5	42.4
25 years and over .....	86,013	3,468	9,016	73,529	47,036	26,493	40.4	43.8
25 to 44 years .....	56,639	2,338	4,969	49,332	30,951	18,381	41.0	43.9
45 to 64 years .....	26,871	1,038	2,866	22,967	15,231	7,736	40.2	43.6
65 years and over .....	2,503	93	1,180	1,230	857	373	29.6	42.6
<b>Men, 16 years and over</b> .....	57,087	2,195	4,357	50,535	29,081	21,454	42.2	45.1
16 to 19 years .....	2,896	272	1,748	876	658	218	24.4	41.2
16 to 17 years .....	1,214	56	1,033	125	96	29	18.0	39.5
18 to 19 years .....	1,683	216	714	753	564	189	29.1	41.4
20 years and over .....	54,190	1,923	2,609	49,658	28,422	21,236	43.1	45.2
20 to 24 years .....	6,513	433	758	5,322	3,407	1,915	39.4	43.6
25 years and over .....	47,677	1,490	1,851	44,336	25,014	19,322	43.6	45.4
25 to 44 years .....	31,095	1,018	655	29,422	16,066	13,356	44.3	45.6
45 to 64 years .....	15,102	429	572	14,101	8,417	5,684	43.4	44.9
65 years and over .....	1,480	43	624	813	531	282	31.7	43.3
<b>Women, 16 years and over</b> .....	47,415	2,702	10,303	34,410	26,129	8,281	35.5	41.3
16 to 19 years .....	3,035	241	1,969	825	673	152	22.8	39.3
16 to 17 years .....	1,182	37	1,083	62	51	11	16.0	( <sup>1</sup> )
18 to 19 years .....	1,853	203	886	764	623	141	27.1	39.6
20 years and over .....	44,380	2,462	8,334	33,584	25,455	8,129	36.3	41.4
20 to 24 years .....	6,045	483	1,170	4,392	3,433	959	35.4	40.9
25 years and over .....	38,335	1,979	7,165	29,191	22,022	7,169	36.5	41.5
25 to 44 years .....	25,543	1,320	4,314	19,909	14,882	5,027	36.9	41.5
45 to 64 years .....	11,770	608	2,295	8,867	6,816	2,051	36.3	41.4
65 years and over .....	1,022	51	556	415	324	91	26.6	41.3
<b>RACE</b>								
White, 16 years and over .....	90,857	3,992	13,265	73,600	46,535	27,065	39.3	43.8
Men .....	50,257	1,799	3,895	44,563	24,858	19,705	42.5	45.4
Women .....	40,600	2,193	9,369	29,038	21,678	7,360	35.3	41.5
Black, 16 years and over .....	10,468	732	1,031	8,705	6,813	1,892	38.0	41.5
Men .....	5,178	308	341	4,529	3,299	1,230	39.9	42.7
Women .....	5,289	423	690	4,176	3,514	662	36.1	40.2
<b>MARITAL STATUS</b>								
Men, 16 years and over:								
Married, spouse present .....	37,078	945	1,265	34,868	19,257	15,611	44.1	45.5
Widowed, divorced, or separated .....	5,713	278	264	5,171	2,971	2,200	43.1	45.5
Single (never married) .....	14,296	971	2,827	10,498	6,855	3,643	37.0	43.5
Women, 16 years and over:								
Married, spouse present .....	26,580	1,321	5,981	19,278	14,829	4,449	35.5	41.2
Widowed, divorced, or separated .....	8,984	603	1,115	7,266	5,408	1,858	37.6	41.6
Single (never married) .....	11,851	779	3,207	7,865	5,891	1,974	33.7	41.4

<sup>1</sup> Data not shown where base is less than 75,000.

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

(Numbers in thousands)

Occupation and sex	May 1987								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over <sup>1</sup> .....	104,028	4,810	14,500	84,718	54,957	11,084	18,677	39.2	43.6
Managerial and professional specialty .....	26,498	461	2,344	23,693	13,494	2,999	7,200	42.3	45.0
Executive, administrative, and managerial .....	12,631	141	641	11,850	6,183	1,586	4,081	44.4	45.9
Professional specialty .....	13,867	320	1,704	11,843	7,311	1,412	3,119	40.4	44.1
Technical, sales, and administrative support .....	33,516	1,221	5,965	26,330	18,307	3,156	4,867	37.8	42.6
Technicians and related support .....	3,124	53	364	2,707	1,892	348	467	40.0	42.7
Sales occupations .....	12,950	637	2,664	9,649	5,117	1,222	3,310	39.1	45.6
Administrative support, including clerical .....	17,443	531	2,937	13,975	11,298	1,587	1,090	36.4	40.5
Service occupations .....	14,505	1,409	4,320	8,776	6,467	876	1,433	33.4	42.7
Private household .....	885	137	420	328	194	37	97	26.3	47.2
Protective service .....	1,772	49	150	1,573	981	246	346	42.4	45.1
Service, except private household and protective .....	11,849	1,223	3,751	6,875	5,292	593	991	32.6	42.0
Precision production, craft, and repair .....	12,922	637	447	11,837	7,457	1,804	2,576	42.0	43.8
Operators, fabricators, and laborers .....	16,587	1,081	1,424	14,082	9,232	2,249	2,601	40.1	43.4
Machine operators, assemblers, and inspectors .....	7,610	388	337	6,885	4,882	1,121	882	40.3	42.1
Transportation and material moving occupations .....	4,457	237	358	3,863	1,988	640	1,234	43.1	46.6
Handlers, equipment cleaners, helpers, and laborers .....	4,520	456	729	3,334	2,362	488	485	36.7	42.4
Men, 16 years and over <sup>1</sup> .....	56,527	2,112	4,168	50,247	28,803	7,171	14,273	42.4	45.1
Managerial and professional specialty .....	14,749	183	611	13,955	6,881	1,811	5,264	45.3	46.8
Executive, administrative, and managerial .....	7,837	78	215	7,544	3,383	1,012	3,149	46.4	47.5
Professional specialty .....	6,913	105	396	6,412	3,498	800	2,114	44.0	45.9
Technical, sales, and administrative support .....	11,891	233	1,117	10,542	5,717	1,435	3,390	42.5	45.5
Technicians and related support .....	1,606	14	91	1,501	964	191	347	42.3	43.8
Sales occupations .....	6,858	131	661	6,066	2,635	784	2,646	44.4	47.7
Administrative support, including clerical .....	3,427	87	365	2,975	2,118	460	396	38.9	41.9
Service occupations .....	5,691	394	1,166	4,130	2,816	517	798	37.2	44.0
Private household .....	30	1	15	14	7	1	7	( <sup>2</sup> )	( <sup>2</sup> )
Protective service .....	1,542	36	87	1,418	856	232	331	43.7	45.5
Service, except private household and protective .....	4,120	358	1,064	2,698	1,953	284	461	34.9	43.1
Precision production, craft, and repair .....	11,834	558	312	10,964	6,788	1,696	2,479	42.4	44.0
Operators, fabricators, and laborers .....	12,361	744	963	10,655	6,602	1,711	2,342	41.1	44.3
Machine operators, assemblers, and inspectors .....	4,512	162	134	4,216	2,823	689	704	41.7	43.1
Transportation and material moving occupations .....	4,070	201	229	3,640	1,840	605	1,196	44.1	46.8
Handlers, equipment cleaners, helpers, and laborers .....	3,779	381	600	2,798	1,939	417	443	37.0	42.7
Women, 16 years and over <sup>1</sup> .....	47,501	2,698	10,332	34,471	26,155	3,913	4,403	35.5	41.3
Managerial and professional specialty .....	11,749	277	1,734	9,738	6,613	1,188	1,937	38.6	42.5
Executive, administrative, and managerial .....	4,794	63	426	4,306	2,800	575	931	41.0	43.2
Professional specialty .....	6,954	215	1,308	5,431	3,813	613	1,005	36.9	41.9
Technical, sales, and administrative support .....	21,625	989	4,848	15,788	12,590	1,721	1,477	35.2	40.7
Technicians and related support .....	1,518	39	273	1,205	928	157	120	37.5	41.3
Sales occupations .....	6,092	505	2,004	3,583	2,482	437	663	33.1	42.2
Administrative support, including clerical .....	14,016	444	2,571	11,000	9,180	1,126	694	35.8	40.1
Service occupations .....	8,814	1,015	3,153	4,646	3,652	359	635	31.0	41.6
Private household .....	855	136	405	314	188	36	90	26.1	46.9
Protective service .....	230	13	62	154	125	14	15	33.7	41.5
Service, except private household and protective .....	7,729	865	2,686	4,177	3,339	309	530	31.4	41.2
Precision production, craft, and repair .....	1,088	79	135	873	669	108	96	37.5	41.3
Operators, fabricators, and laborers .....	4,226	337	461	3,427	2,630	538	259	37.1	40.6
Machine operators, assemblers, and inspectors .....	3,098	226	203	2,669	2,059	432	178	38.1	40.5
Transportation and material moving occupations .....	387	36	129	223	149	35	38	32.2	42.1
Handlers, equipment cleaners, helpers, and laborers .....	741	76	129	536	423	71	42	35.5	40.8

<sup>1</sup> Excludes farming, forestry, and fishing occupations.

<sup>2</sup> Data not shown where base is less than 75,000.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-32. Employment status of the noninstitutional population, including Armed forces stationed in the United States, by sex, seasonally adjusted**

(Numbers in thousands)

Employment status and sex	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	181,998	182,183	182,354	182,525	182,713	182,935	183,114	183,297	183,575	183,738	183,915	184,079	184,259
Labor force <sup>1</sup> .....	119,274	119,685	119,789	119,821	119,988	120,163	120,426	120,336	120,782	121,089	120,958	121,070	121,719
Percent of population <sup>2</sup> .....	65.5	65.7	65.7	65.6	65.7	65.7	65.8	65.7	65.8	65.9	65.8	65.8	66.1
Total employed <sup>1</sup> .....	110,852	111,293	111,559	111,764	111,703	111,941	112,183	112,387	112,759	113,122	113,104	113,570	114,173
Employment-population ratio <sup>3</sup> .....	60.9	61.1	61.2	61.2	61.1	61.2	61.3	61.3	61.4	61.6	61.5	61.7	62.0
Resident Armed Forces .....	1,687	1,680	1,672	1,697	1,716	1,749	1,751	1,750	1,748	1,740	1,736	1,735	1,726
Civilian employed .....	109,165	109,613	109,887	110,067	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447
Agriculture .....	3,151	3,164	3,124	3,057	3,142	3,162	3,215	3,161	3,145	3,236	3,284	3,290	3,335
Nonagricultural industries .....	106,014	106,449	106,763	107,010	106,845	107,030	107,217	107,476	107,866	108,146	108,084	108,545	109,112
Unemployed .....	8,422	8,392	8,230	8,057	8,285	8,222	8,243	7,949	8,023	7,967	7,854	7,500	7,546
Unemployment rate <sup>4</sup> .....	7.1	7.0	6.9	6.7	6.9	6.8	6.8	6.6	6.6	6.6	6.5	6.2	6.2
Not in labor force .....	62,724	62,498	62,565	62,704	62,725	62,772	62,688	62,961	62,793	62,649	62,957	63,009	62,540
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	87,195	87,288	87,373	87,460	87,556	87,682	87,773	87,868	88,020	88,099	88,186	88,271	88,361
Labor force <sup>1</sup> .....	66,854	66,937	66,968	66,911	67,128	67,130	67,407	67,425	67,672	67,764	67,644	67,603	67,816
Percent of population <sup>2</sup> .....	76.7	76.7	76.6	76.5	76.7	76.6	76.8	76.7	76.9	76.9	76.7	76.6	76.7
Total employed <sup>1</sup> .....	62,201	62,318	62,402	62,483	62,528	62,565	62,833	62,986	63,187	63,335	63,282	63,417	63,562
Employment-population ratio <sup>3</sup> .....	71.3	71.4	71.4	71.4	71.4	71.4	71.6	71.7	71.8	71.9	71.8	71.8	71.9
Resident Armed Forces .....	1,533	1,525	1,518	1,541	1,560	1,590	1,592	1,593	1,591	1,584	1,575	1,575	1,566
Civilian employed .....	60,668	60,793	60,884	60,942	60,968	60,975	61,241	61,393	61,596	61,751	61,707	61,842	61,996
Unemployed .....	4,653	4,619	4,566	4,428	4,600	4,565	4,574	4,439	4,484	4,429	4,362	4,186	4,254
Unemployment rate <sup>4</sup> .....	7.0	6.9	6.8	6.6	6.9	6.8	6.8	6.6	6.6	6.5	6.4	6.2	6.3
Not in labor force .....	20,341	20,351	20,405	20,549	20,428	20,552	20,366	20,443	20,348	20,335	20,542	20,668	20,545
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	94,803	94,895	94,981	95,065	95,156	95,253	95,341	95,429	95,556	95,639	95,729	95,808	95,898
Labor force <sup>1</sup> .....	52,420	52,748	52,821	52,910	52,860	53,033	53,019	52,911	53,110	53,325	53,314	53,467	53,903
Percent of population <sup>2</sup> .....	55.3	55.6	55.6	55.7	55.6	55.7	55.6	55.4	55.6	55.8	55.7	55.8	56.2
Total employed <sup>1</sup> .....	48,651	48,975	49,157	49,281	49,175	49,376	49,350	49,401	49,572	49,787	49,822	50,153	50,611
Employment-population ratio <sup>3</sup> .....	51.3	51.6	51.8	51.8	51.7	51.8	51.8	51.8	51.9	52.1	52.0	52.3	52.8
Resident Armed Forces .....	154	155	154	156	156	159	159	157	157	156	161	160	160
Civilian employed .....	48,497	48,820	49,003	49,125	49,019	49,217	49,191	49,244	49,415	49,631	49,661	49,993	50,451
Unemployed .....	3,769	3,773	3,664	3,629	3,685	3,657	3,669	3,510	3,538	3,538	3,492	3,314	3,292
Unemployment rate <sup>4</sup> .....	7.2	7.2	6.9	6.9	7.0	6.9	6.9	6.6	6.7	6.6	6.6	6.2	6.1
Not in labor force .....	42,383	42,147	42,160	42,155	42,296	42,220	42,322	42,518	42,446	42,314	42,415	42,341	41,995

<sup>1</sup> Includes members of the Armed Forces stationed in the United States.

<sup>2</sup> Labor force as a percent of the noninstitutional population.

<sup>3</sup> Total employment as a percent of the noninstitutional population.

<sup>4</sup> 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	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	180,311	180,503	180,682	180,828	180,997	181,186	181,363	181,547	181,827	181,998	182,179	182,344	182,533
Civilian labor force .....	117,587	118,005	118,117	118,124	118,272	118,414	118,675	118,586	119,034	119,349	119,222	119,335	119,993
Percent of population .....	65.2	65.4	65.4	65.3	65.3	65.4	65.4	65.3	65.5	65.6	65.4	65.4	65.7
Employed .....	109,165	109,613	109,887	110,067	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447
Employment-population ratio <sup>2</sup> .....	60.5	60.7	60.8	60.9	60.8	60.8	60.9	60.9	61.1	61.2	61.1	61.3	61.6
Unemployed .....	8,422	8,392	8,230	8,057	8,285	8,222	8,243	7,949	8,023	7,967	7,854	7,500	7,546
Unemployment rate .....	7.2	7.1	7.0	6.8	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.3	6.3
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	78,387	78,484	78,586	78,634	78,722	78,802	78,874	78,973	79,132	79,216	79,303	79,387	79,474
Civilian labor force .....	61,158	61,330	61,355	61,219	61,412	61,409	61,703	61,826	61,948	61,973	61,983	61,976	62,156
Percent of population .....	78.0	78.1	78.1	77.9	78.0	77.9	78.2	78.3	78.2	78.2	78.2	78.1	78.2
Employed .....	57,338	57,522	57,544	57,585	57,607	57,595	57,883	58,101	58,227	58,325	58,410	58,567	58,721
Employment-population ratio <sup>2</sup> .....	73.1	73.3	73.2	73.2	73.2	73.1	73.4	73.6	73.6	73.6	73.7	73.8	73.9
Agriculture .....	2,279	2,309	2,275	2,185	2,286	2,297	2,303	2,289	2,254	2,300	2,411	2,411	2,441
Nonagricultural industries .....	55,059	55,213	55,269	55,400	55,321	55,298	55,580	55,812	55,974	56,024	55,999	56,155	56,280
Unemployed .....	3,820	3,808	3,811	3,634	3,805	3,814	3,820	3,725	3,720	3,648	3,573	3,409	3,436
Unemployment rate .....	6.2	6.2	6.2	5.9	6.2	6.2	6.2	6.0	6.0	5.9	5.8	5.5	5.5
Not in labor force .....	17,229	17,154	17,231	17,415	17,310	17,393	17,171	17,147	17,184	17,243	17,320	17,411	17,318
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	87,444	87,547	87,629	87,689	87,779	87,856	87,933	88,016	88,150	88,237	88,321	88,395	88,464
Civilian labor force .....	48,433	48,739	48,879	48,950	48,920	49,014	49,043	48,923	49,161	49,348	49,355	49,466	49,774
Percent of population .....	55.4	55.7	55.8	55.8	55.7	55.8	55.8	55.6	55.8	55.9	55.9	56.0	56.3
Employed .....	45,335	45,657	45,869	45,956	45,905	46,020	46,067	46,058	46,261	46,475	46,498	46,751	47,094
Employment-population ratio <sup>2</sup> .....	51.8	52.2	52.3	52.4	52.3	52.4	52.4	52.3	52.5	52.7	52.6	52.9	53.2
Agriculture .....	604	583	607	622	614	612	675	621	628	641	589	587	634
Nonagricultural industries .....	44,731	45,074	45,262	45,334	45,291	45,408	45,392	45,437	45,633	45,835	45,909	46,164	46,460
Unemployed .....	3,098	3,082	3,010	2,994	3,015	2,994	2,976	2,865	2,900	2,873	2,857	2,715	2,680
Unemployment rate .....	6.4	6.3	6.2	6.1	6.2	6.1	6.1	5.9	5.9	5.8	5.8	5.5	5.4
Not in labor force .....	39,011	38,808	38,750	38,739	38,859	38,842	38,890	39,093	38,989	38,889	38,966	38,929	38,690
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,480	14,472	14,467	14,505	14,496	14,527	14,557	14,558	14,545	14,546	14,555	14,562	14,595
Civilian labor force .....	7,996	7,936	7,883	7,955	7,940	7,991	7,929	7,837	7,926	8,028	7,884	7,894	8,063
Percent of population .....	55.2	54.8	54.5	54.8	54.8	55.0	54.5	53.8	54.5	55.2	54.2	54.2	55.2
Employed .....	6,492	6,434	6,474	6,526	6,475	6,577	6,482	6,478	6,524	6,582	6,460	6,518	6,633
Employment-population ratio <sup>2</sup> .....	44.8	44.5	44.8	45.0	44.7	45.3	44.5	44.5	44.9	45.2	44.4	44.8	45.4
Agriculture .....	268	272	242	250	242	253	237	251	264	295	284	292	261
Nonagricultural industries .....	6,224	6,162	6,232	6,276	6,233	6,324	6,245	6,227	6,260	6,287	6,176	6,226	6,372
Unemployed .....	1,504	1,502	1,409	1,429	1,465	1,414	1,447	1,359	1,402	1,446	1,424	1,376	1,430
Unemployment rate .....	18.8	18.9	17.9	18.0	18.5	17.7	18.2	17.3	17.7	18.0	18.1	17.4	17.7
Not in labor force .....	6,484	6,536	6,584	6,550	6,556	6,536	6,628	6,721	6,619	6,518	6,671	6,668	6,532

<sup>1</sup> The population figures are not adjusted for seasonal variation.

population.

<sup>2</sup> Civilian employment as a percent of the civilian noninstitutional

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-34. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted**

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	155,236	155,376	155,502	155,604	155,723	155,856	155,979	156,111	156,313	156,431	156,561	156,676	156,811
Civilian labor force .....	101,531	101,946	102,015	102,122	102,158	102,297	102,455	102,503	102,746	102,893	102,797	102,894	103,573
Percent of population .....	65.4	65.6	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.8	65.7	65.7	66.1
Employed .....	95,283	95,720	95,861	96,177	96,000	96,147	96,281	96,533	96,717	96,995	96,998	97,340	98,050
Employment-population ratio <sup>2</sup> .....	61.4	61.6	61.6	61.8	61.6	61.7	61.7	61.8	61.9	62.0	62.0	62.1	62.5
Unemployed .....	6,248	6,226	6,154	5,945	6,158	6,150	6,174	5,970	6,029	5,898	5,799	5,554	5,524
Unemployment rate .....	6.2	6.1	6.0	5.8	6.0	6.0	6.0	5.8	5.9	5.7	5.6	5.4	5.3
<b>Men, 20 years and over</b>													
Civilian labor force .....	53,532	53,651	53,639	53,583	53,727	53,757	54,015	54,172	54,182	54,175	54,107	54,051	54,314
Percent of population .....	78.4	78.5	78.4	78.2	78.4	78.3	78.7	78.8	78.7	78.6	78.4	78.3	78.6
Employed .....	50,628	50,762	50,731	50,877	50,845	50,845	51,089	51,286	51,297	51,362	51,364	51,462	51,755
Employment-population ratio <sup>2</sup> .....	74.1	74.2	74.1	74.3	74.2	74.1	74.4	74.6	74.5	74.5	74.5	74.6	74.9
Unemployed .....	2,904	2,889	2,908	2,706	2,882	2,912	2,926	2,886	2,885	2,813	2,743	2,589	2,558
Unemployment rate .....	5.4	5.4	5.4	5.1	5.4	5.4	5.4	5.3	5.3	5.2	5.1	4.8	4.7
<b>Women, 20 years and over</b>													
Civilian labor force .....	41,103	41,424	41,584	41,640	41,547	41,598	41,540	41,514	41,680	41,762	41,828	41,982	42,239
Percent of population .....	54.8	55.1	55.3	55.4	55.2	55.2	55.1	55.0	55.2	55.2	55.3	55.5	55.8
Employed .....	38,854	39,179	39,368	39,466	39,365	39,431	39,399	39,456	39,568	39,735	39,839	40,041	40,343
Employment-population ratio <sup>2</sup> .....	51.8	52.2	52.4	52.5	52.3	52.3	52.3	52.3	52.4	52.6	52.7	52.9	53.2
Unemployed .....	2,249	2,245	2,216	2,174	2,182	2,167	2,141	2,058	2,111	2,028	1,989	1,941	1,895
Unemployment rate .....	5.5	5.4	5.3	5.2	5.3	5.2	5.2	5.0	5.1	4.9	4.8	4.6	4.5
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,896	6,871	6,792	6,899	6,884	6,942	6,900	6,817	6,885	6,955	6,862	6,861	7,021
Percent of population .....	58.1	57.9	57.2	58.1	57.9	58.4	58.0	57.3	57.8	58.4	57.5	57.4	58.7
Employed .....	5,801	5,779	5,762	5,834	5,790	5,871	5,793	5,791	5,852	5,898	5,795	5,837	5,951
Employment-population ratio <sup>2</sup> .....	48.8	48.7	48.5	49.1	48.7	49.4	48.7	49.2	49.5	49.5	48.5	48.9	49.8
Unemployed .....	1,095	1,092	1,030	1,065	1,094	1,071	1,107	1,026	1,033	1,057	1,067	1,024	1,070
Unemployment rate .....	15.9	15.9	15.2	15.4	15.9	15.4	16.0	15.1	15.0	15.2	15.5	14.9	15.2
Men .....	17.0	17.1	15.6	16.6	16.6	15.7	16.3	15.5	16.1	16.0	17.1	16.7	17.3
Women .....	14.7	14.6	14.7	14.2	15.1	15.2	15.7	14.6	13.8	14.3	13.9	13.1	13.1
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	19,943	19,974	20,002	20,028	20,056	20,089	20,120	20,152	20,187	20,218	20,249	20,279	20,312
Civilian labor force .....	12,721	12,712	12,611	12,553	12,652	12,720	12,719	12,707	12,831	12,957	12,844	12,743	12,860
Percent of population .....	63.8	63.6	63.0	62.7	63.1	63.3	63.2	63.1	63.6	64.1	63.4	62.8	63.3
Employed .....	10,839	10,818	10,822	10,716	10,799	10,895	10,910	10,968	10,997	11,101	11,053	11,090	11,080
Employment-population ratio <sup>2</sup> .....	54.3	54.2	54.1	53.5	53.8	54.2	54.2	54.4	54.5	54.9	54.6	54.7	54.6
Unemployed .....	1,882	1,894	1,789	1,837	1,853	1,825	1,809	1,739	1,833	1,855	1,791	1,653	1,779
Unemployment rate .....	14.8	14.9	14.2	14.6	14.6	14.3	14.2	13.7	14.3	14.3	13.9	13.0	13.8
<b>Men, 20 years and over</b>													
Civilian labor force .....	5,924	5,948	5,939	5,885	5,906	5,932	5,934	5,947	5,986	6,012	5,997	5,980	6,033
Percent of population .....	75.1	75.3	75.0	74.2	74.4	74.6	74.5	74.5	74.9	75.1	74.8	74.4	75.0
Employed .....	5,161	5,157	5,170	5,110	5,116	5,153	5,171	5,244	5,256	5,288	5,305	5,328	5,279
Employment-population ratio <sup>2</sup> .....	65.4	65.3	65.3	64.5	64.5	64.8	65.0	65.7	65.7	66.0	66.1	66.3	65.6
Unemployed .....	763	791	769	775	790	779	763	703	730	724	692	652	754
Unemployment rate .....	12.9	13.3	12.9	13.2	13.4	13.1	12.9	11.8	12.2	12.0	11.5	10.9	12.5
<b>Women, 20 years and over</b>													
Civilian labor force .....	5,876	5,848	5,848	5,841	5,872	5,909	5,943	5,907	5,984	6,030	5,987	5,918	5,970
Percent of population .....	59.2	58.8	58.8	58.6	58.8	59.1	59.3	58.9	59.6	59.9	59.4	58.7	59.1
Employed .....	5,130	5,107	5,141	5,112	5,145	5,178	5,200	5,182	5,221	5,255	5,211	5,238	5,278
Employment-population ratio <sup>2</sup> .....	51.7	51.4	51.6	51.3	51.5	51.8	51.9	51.7	52.0	52.2	51.7	51.9	52.2
Unemployed .....	746	741	707	729	727	731	743	725	763	775	776	680	691
Unemployment rate .....	12.7	12.7	12.1	12.5	12.4	12.4	12.5	12.3	12.8	12.9	13.0	11.5	11.6

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	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	921	916	824	827	874	879	842	853	860	915	861	845	857
Percent of population .....	43.2	42.9	38.7	38.8	40.9	41.1	39.3	39.8	40.1	42.6	40.0	39.2	39.7
Employed .....	548	554	511	494	538	564	539	542	520	559	537	524	523
Employment-population ratio <sup>2</sup> .....	25.7	26.0	24.0	23.1	25.2	26.3	25.1	25.3	24.2	26.0	24.9	24.3	24.2
Unemployed .....	373	362	313	333	336	315	303	311	340	356	324	321	334
Unemployment rate .....	40.5	39.5	38.0	40.3	38.4	35.8	36.0	36.5	39.5	38.9	37.6	38.0	39.0
Men .....	40.5	39.7	40.5	38.8	38.6	37.8	35.0	36.1	36.5	38.3	36.5	39.3	40.3
Women .....	40.5	39.4	35.0	41.9	38.3	33.8	37.0	36.9	43.2	39.5	38.8	36.5	37.6
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	12,290	12,326	12,362	12,397	12,432	12,469	12,505	12,540	12,653	12,692	12,732	12,770	12,809
Civilian labor force .....	8,006	8,085	8,121	8,130	8,179	8,200	8,226	8,320	8,431	8,457	8,392	8,484	8,586
Percent of population .....	65.1	65.6	65.7	65.6	65.8	65.8	65.8	66.3	66.6	66.6	65.9	66.4	67.0
Employed .....	7,136	7,224	7,269	7,248	7,286	7,345	7,437	7,446	7,538	7,644	7,639	7,701	7,838
Employment-population ratio <sup>2</sup> .....	58.1	58.6	58.8	58.5	58.6	58.9	59.5	59.4	59.6	60.2	60.0	60.3	61.2
Unemployed .....	870	861	852	882	893	855	789	874	893	813	753	783	748
Unemployment rate .....	10.9	10.6	10.5	10.8	10.9	10.4	9.6	10.5	10.6	9.6	9.0	9.2	8.7

<sup>1</sup> The population figures are not adjusted for seasonal variation.

<sup>2</sup> Civilian employment as a percent of the civilian noninstitutional population.

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

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

(In thousands)

Category	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>CHARACTERISTIC</b>													
Total .....	109,165	109,613	109,887	110,067	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447
Married men, spouse present .....	39,582	39,613	39,634	39,735	39,691	39,780	39,952	40,093	40,102	39,913	40,100	39,967	40,029
Married women, spouse present .....	27,016	27,354	27,474	27,388	27,249	27,323	27,333	27,400	27,525	27,817	27,965	28,213	28,495
Women who maintain families .....	5,734	5,719	5,812	5,832	5,926	6,016	6,041	6,005	5,985	5,906	5,933	5,972	5,921
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,489	1,508	1,504	1,509	1,521	1,562	1,582	1,621	1,650	1,647	1,739	1,589	1,695
Self-employed workers .....	1,472	1,492	1,434	1,387	1,460	1,451	1,425	1,400	1,370	1,454	1,418	1,505	1,442
Unpaid family workers .....	177	163	171	174	159	164	198	152	136	126	150	175	170
Nonagricultural industries:													
Wage and salary workers .....	98,047	98,314	98,312	98,586	98,692	98,846	98,869	99,164	99,550	99,748	99,834	100,112	100,834
Government .....	16,333	16,377	16,582	16,446	16,333	16,264	16,457	16,443	16,412	16,532	16,568	16,484	16,710
Private industries .....	81,714	81,937	81,730	82,140	82,359	82,582	82,412	82,721	83,138	83,216	83,265	83,628	84,124
Private households .....	1,261	1,267	1,241	1,247	1,229	1,216	1,183	1,189	1,269	1,204	1,227	1,266	1,266
Other industries .....	80,453	80,670	80,489	80,893	81,130	81,366	81,229	81,532	81,869	82,012	82,038	82,362	82,858
Self-employed workers .....	7,793	7,832	8,019	7,956	7,939	7,993	8,179	8,056	8,192	8,187	8,050	8,117	8,142
Unpaid family workers .....	235	236	258	271	275	265	252	239	246	255	273	268	275
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	5,825	5,538	5,442	5,471	5,544	5,740	5,563	5,596	5,505	5,780	5,456	5,391	5,282
Slack work .....	2,605	2,437	2,473	2,417	2,472	2,481	2,510	2,444	2,473	2,535	2,440	2,322	2,223
Could only find part-time work .....	2,843	2,813	2,661	2,741	2,772	2,826	2,714	2,867	2,695	2,828	2,698	2,746	2,665
Voluntary part time .....	13,853	14,142	13,967	13,981	13,922	14,178	14,021	13,877	14,170	14,061	14,167	13,862	14,573
Nonagricultural industries:													
Part time for economic reasons .....	5,569	5,322	5,222	5,269	5,303	5,450	5,319	5,342	5,201	5,459	5,164	5,110	5,029
Slack work .....	2,485	2,307	2,317	2,283	2,314	2,314	2,366	2,286	2,281	2,340	2,218	2,137	2,071
Could only find part-time work .....	2,749	2,727	2,609	2,678	2,710	2,739	2,626	2,765	2,599	2,742	2,595	2,662	2,594
Voluntary part time .....	13,412	13,613	13,578	13,606	13,520	13,736	13,567	13,455	13,750	13,597	13,682	13,399	14,069

<sup>1</sup> Excludes persons "with a job but not at work" during the survey

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Sex and age	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total, 16 years and over .....	109,165	109,613	109,887	110,067	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447
16 to 24 years .....	20,211	20,250	20,268	20,281	20,163	20,263	20,201	20,093	20,237	20,293	20,113	20,111	20,215
16 to 19 years .....	6,492	6,434	6,474	6,526	6,475	6,577	6,482	6,478	6,524	6,582	6,460	6,518	6,633
16 to 17 years .....	2,612	2,611	2,605	2,593	2,670	2,714	2,648	2,717	2,713	2,727	2,688	2,619	2,689
18 to 19 years .....	3,873	3,821	3,830	3,903	3,804	3,877	3,843	3,771	3,816	3,844	3,809	3,876	3,932
20 to 24 years .....	13,719	13,816	13,794	13,755	13,688	13,686	13,719	13,615	13,713	13,711	13,652	13,593	13,582
25 years and over .....	88,916	89,387	89,730	89,792	89,796	89,899	90,221	90,524	90,725	91,104	91,290	91,660	92,257
25 to 54 years .....	74,464	74,894	75,207	75,405	75,582	75,714	75,889	76,247	76,281	76,680	76,844	77,338	77,663
55 years and over .....	14,352	14,501	14,447	14,445	14,269	14,223	14,341	14,349	14,450	14,363	14,426	14,345	14,450
Men, 16 years and over .....	60,668	60,793	60,884	60,942	60,968	60,975	61,241	61,393	61,596	61,751	61,707	61,842	61,996
16 to 24 years .....	10,496	10,509	10,590	10,567	10,528	10,587	10,546	10,449	10,526	10,608	10,452	10,427	10,369
16 to 19 years .....	3,330	3,271	3,340	3,357	3,361	3,380	3,358	3,292	3,369	3,426	3,297	3,275	3,276
16 to 17 years .....	1,367	1,350	1,357	1,325	1,399	1,391	1,353	1,373	1,395	1,425	1,355	1,336	1,350
18 to 19 years .....	1,960	1,923	1,970	2,005	1,965	2,003	2,009	1,933	1,974	2,000	1,945	1,936	1,919
20 to 24 years .....	7,166	7,238	7,250	7,210	7,167	7,207	7,188	7,157	7,156	7,182	7,155	7,152	7,094
25 years and over .....	50,152	50,267	50,321	50,393	50,419	50,348	50,705	50,943	51,053	51,207	51,278	51,396	51,648
25 to 54 years .....	41,637	41,853	41,884	42,050	42,124	42,049	42,278	42,485	42,569	42,702	42,729	42,925	42,997
55 years and over .....	8,462	8,441	8,402	8,357	8,323	8,329	8,428	8,507	8,458	8,470	8,546	8,476	8,561
Women, 16 years and over .....	48,497	48,820	49,003	49,125	49,019	49,217	49,191	49,244	49,415	49,631	49,661	49,993	50,451
16 to 24 years .....	9,715	9,741	9,678	9,714	9,635	9,676	9,655	9,644	9,711	9,685	9,661	9,683	9,845
16 to 19 years .....	3,162	3,163	3,134	3,169	3,114	3,197	3,124	3,186	3,154	3,155	3,163	3,242	3,357
16 to 17 years .....	1,245	1,261	1,248	1,268	1,271	1,323	1,295	1,344	1,318	1,302	1,333	1,283	1,339
18 to 19 years .....	1,913	1,898	1,860	1,898	1,839	1,874	1,834	1,838	1,842	1,844	1,864	1,940	2,013
20 to 24 years .....	6,553	6,578	6,544	6,545	6,521	6,479	6,531	6,458	6,557	6,529	6,498	6,441	6,489
25 years and over .....	38,764	39,120	39,409	39,399	39,377	39,551	39,516	39,581	39,672	39,897	40,012	40,264	40,609
25 to 54 years .....	32,827	33,041	33,323	33,355	33,458	33,665	33,611	33,762	33,712	33,978	34,116	34,412	34,666
55 years and over .....	5,890	6,060	6,045	6,088	5,946	5,894	5,913	5,842	5,992	5,893	5,879	5,869	5,888

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

(In thousands)

Sex and age	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total, 16 years and over .....	8,422	8,392	8,230	8,057	8,285	8,222	8,243	7,949	8,023	7,967	7,854	7,500	7,546
16 to 24 years .....	3,242	3,157	3,071	3,001	3,173	3,022	3,005	2,986	3,045	3,049	2,969	2,901	2,912
16 to 19 years .....	1,504	1,502	1,409	1,429	1,465	1,414	1,447	1,359	1,402	1,446	1,424	1,376	1,430
16 to 17 years .....	686	681	642	641	668	647	686	629	683	693	670	623	734
18 to 19 years .....	816	813	740	787	790	766	768	737	735	765	753	756	696
20 to 24 years .....	1,738	1,655	1,662	1,572	1,708	1,608	1,558	1,627	1,643	1,603	1,545	1,525	1,482
25 years and over .....	5,161	5,212	5,148	5,087	5,130	5,197	5,230	4,961	5,024	4,912	4,872	4,588	4,621
25 to 54 years .....	4,634	4,677	4,584	4,525	4,523	4,597	4,630	4,422	4,552	4,459	4,363	4,079	4,102
55 years and over .....	556	569	574	561	587	603	571	527	477	452	509	512	548
Men, 16 years and over .....	4,653	4,619	4,566	4,428	4,600	4,565	4,574	4,439	4,484	4,429	4,362	4,186	4,254
16 to 24 years .....	1,778	1,699	1,660	1,625	1,761	1,615	1,635	1,623	1,626	1,673	1,589	1,583	1,604
16 to 19 years .....	833	811	755	794	795	751	754	714	764	781	789	777	818
16 to 17 years .....	369	337	345	350	373	344	366	325	380	383	344	366	407
18 to 19 years .....	464	463	395	441	416	409	388	395	401	410	444	411	412
20 to 24 years .....	945	888	905	831	966	864	881	909	862	892	800	806	786
25 years and over .....	2,855	2,885	2,896	2,835	2,857	2,945	2,931	2,809	2,901	2,760	2,758	2,597	2,636
25 to 54 years .....	2,536	2,551	2,548	2,471	2,472	2,558	2,568	2,462	2,578	2,461	2,435	2,276	2,299
55 years and over .....	344	363	350	356	364	385	361	351	310	293	316	330	363
Women, 16 years and over .....	3,769	3,773	3,664	3,629	3,685	3,657	3,669	3,510	3,538	3,538	3,492	3,314	3,292
16 to 24 years .....	1,464	1,458	1,411	1,376	1,412	1,407	1,370	1,363	1,419	1,375	1,380	1,319	1,308
16 to 19 years .....	671	691	654	635	670	663	693	645	638	665	635	599	612
16 to 17 years .....	317	344	297	291	295	303	320	304	303	310	326	257	327
18 to 19 years .....	352	350	345	346	374	357	380	342	334	355	309	345	284
20 to 24 years .....	793	767	757	741	742	744	677	718	781	710	745	720	696
25 years and over .....	2,306	2,327	2,252	2,252	2,273	2,252	2,299	2,152	2,124	2,152	2,113	1,991	1,985
25 to 54 years .....	2,098	2,126	2,036	2,054	2,051	2,039	2,062	1,960	1,974	1,998	1,928	1,803	1,803
55 years and over .....	212	206	224	205	223	218	210	176	167	158	193	183	185

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

(Civilian workers)

Sex and age	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total, 16 years and over .....	7.2	7.1	7.0	6.8	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.3	6.3
16 to 24 years .....	13.8	13.5	13.2	12.9	13.6	13.0	12.9	12.9	13.1	13.1	12.9	12.6	12.6
16 to 19 years .....	18.8	18.9	17.9	18.0	18.5	17.7	18.2	17.3	17.7	18.0	18.1	17.4	17.7
16 to 17 years .....	20.8	20.7	19.8	19.8	20.0	19.3	20.6	18.8	20.1	20.3	20.0	19.2	21.4
18 to 19 years .....	17.4	17.5	16.2	16.8	17.2	16.5	16.7	16.3	16.2	16.6	16.5	16.3	15.0
20 to 24 years .....	11.2	10.7	10.8	10.3	11.1	10.5	10.2	10.7	10.7	10.5	10.2	10.1	9.8
25 years and over .....	5.5	5.5	5.4	5.4	5.4	5.5	5.5	5.2	5.2	5.1	5.1	4.8	4.8
25 to 54 years .....	5.9	5.9	5.7	5.7	5.6	5.7	5.8	5.5	5.6	5.5	5.4	5.0	5.0
55 years and over .....	3.7	3.8	3.8	3.7	4.0	4.1	3.8	3.5	3.2	3.0	3.4	3.4	3.7
Men, 16 years and over .....	7.1	7.1	7.0	6.8	7.0	7.0	6.9	6.7	6.8	6.7	6.6	6.3	6.4
16 to 24 years .....	14.5	13.9	13.6	13.3	14.3	13.2	13.4	13.4	13.4	13.6	13.2	13.2	13.4
16 to 19 years .....	20.0	19.9	18.4	19.1	19.1	18.2	18.3	17.8	18.5	18.6	19.3	19.2	20.0
16 to 17 years .....	21.3	20.0	20.3	20.9	21.0	19.8	21.3	19.1	21.4	21.2	20.2	21.5	23.2
18 to 19 years .....	19.1	19.4	16.7	18.0	17.5	17.0	16.2	17.0	16.9	17.0	18.6	17.5	17.7
20 to 24 years .....	11.7	10.9	11.1	10.3	11.9	10.7	10.9	11.3	10.7	11.1	10.1	10.1	10.0
25 years and over .....	5.4	5.4	5.4	5.3	5.4	5.5	5.5	5.2	5.4	5.1	5.1	4.8	4.9
25 to 54 years .....	5.7	5.7	5.7	5.6	5.5	5.7	5.7	5.5	5.7	5.4	5.4	5.0	5.1
55 years and over .....	3.9	4.1	4.0	4.1	4.2	4.4	4.1	4.0	3.5	3.3	3.6	3.7	4.1
Women, 16 years and over .....	7.2	7.2	7.0	6.9	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.2	6.1
16 to 24 years .....	13.1	13.0	12.7	12.4	12.8	12.7	12.4	12.4	12.7	12.4	12.5	12.0	11.7
16 to 19 years .....	17.5	17.9	17.3	16.7	17.7	17.2	18.2	16.8	16.8	17.4	16.7	15.6	15.4
16 to 17 years .....	20.3	21.4	19.2	18.7	18.8	18.6	19.8	18.4	18.7	19.2	19.7	16.7	19.6
18 to 19 years .....	15.5	15.6	15.6	15.4	16.9	16.0	17.2	15.7	15.3	16.1	14.2	15.1	12.4
20 to 24 years .....	10.8	10.4	10.4	10.2	10.2	10.3	9.4	10.0	10.6	9.8	10.3	10.1	9.7
25 years and over .....	5.6	5.6	5.4	5.4	5.5	5.4	5.5	5.2	5.1	5.1	5.0	4.7	4.7
25 to 54 years .....	6.0	6.0	5.8	5.8	5.8	5.7	5.8	5.5	5.5	5.6	5.4	5.0	4.9
55 years and over .....	3.5	3.3	3.6	3.3	3.6	3.6	3.4	2.9	2.7	2.6	3.2	3.0	3.0

**A-39. Selected unemployment indicators, seasonally adjusted**

(Unemployment rates)

Category	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	7.2	7.1	7.0	6.8	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.3	6.3
Men, 20 years and over .....	6.2	6.2	6.2	5.9	6.2	6.2	6.0	6.0	6.0	5.9	5.8	5.5	5.5
Women, 20 years and over .....	6.4	6.3	6.2	6.1	6.2	6.1	6.1	5.9	5.9	5.8	5.8	5.5	5.4
Both sexes, 16 to 19 years .....	18.8	18.9	17.9	18.0	18.5	17.7	18.2	17.3	17.7	18.0	18.1	17.4	17.7
White .....	6.2	6.1	6.0	5.8	6.0	6.0	6.0	5.8	5.9	5.7	5.6	5.4	5.3
Black and other .....	13.5	13.5	12.7	13.1	13.1	12.7	12.3	12.6	12.8	12.5	11.7	11.7	12.2
Black .....	14.8	14.9	14.2	14.6	14.6	14.3	14.2	13.7	14.3	14.3	13.9	13.0	13.8
Hispanic origin .....	10.9	10.6	10.5	10.8	10.9	10.4	9.6	10.5	10.6	9.6	9.0	9.2	8.7
Married men, spouse present .....	4.4	4.5	4.4	4.2	4.3	4.6	4.5	4.3	4.2	4.2	4.1	4.1	3.9
Married women, spouse present .....	5.3	5.2	5.2	5.1	5.1	5.0	5.0	4.8	4.8	4.8	4.5	4.4	4.1
Women who maintain families .....	10.1	10.0	9.5	10.1	9.8	8.9	9.7	9.8	9.8	9.5	9.7	9.3	9.6
Full-time workers .....	6.9	6.7	6.6	6.4	6.6	6.6	6.6	6.3	6.4	6.3	6.2	5.9	5.9
Part-time workers .....	9.1	9.1	9.2	9.3	9.3	9.2	9.1	8.8	9.0	8.7	9.2	8.6	8.7
Unemployed 15 weeks and over <sup>1</sup> .....	1.9	1.9	1.9	1.9	2.0	1.8	1.9	1.8	1.8	1.8	1.7	1.7	1.8
Labor force time lost <sup>2</sup> .....	8.2	8.1	7.8	7.7	7.9	7.8	7.7	7.6	7.6	7.6	7.4	7.3	7.2
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	7.2	7.1	7.1	6.9	7.0	7.0	7.0	6.8	6.7	6.6	6.5	6.2	6.3
Mining .....	13.6	17.3	16.6	16.6	13.9	14.5	14.5	14.1	14.0	12.4	9.3	11.1	12.9
Construction .....	13.0	12.4	13.0	12.4	12.9	13.8	15.1	13.7	12.2	11.6	12.5	11.9	12.1
Manufacturing .....	7.4	7.2	6.9	6.9	7.0	7.3	7.1	6.9	6.8	6.8	6.9	6.2	6.4
Durable goods .....	7.3	7.0	6.7	6.8	6.5	7.2	6.6	6.4	6.8	6.8	6.7	6.2	6.3
Nondurable goods .....	7.5	7.5	7.2	6.9	7.7	7.3	7.9	7.7	6.8	6.9	7.3	6.2	6.6
Transportation and public utilities .....	5.3	5.4	5.5	4.8	4.7	5.2	4.4	4.6	4.8	4.0	4.6	4.8	4.4
Wholesale and retail trade .....	7.9	7.7	7.8	7.5	7.6	7.4	7.2	7.2	7.5	7.2	7.3	7.0	6.9
Finance and service industries .....	5.5	5.5	5.7	5.6	5.6	5.4	5.4	5.1	5.2	5.4	4.9	4.7	4.8
Agricultural wage and salary workers .....	15.3	13.2	11.4	13.3	12.9	11.9	10.1	11.5	11.6	11.2	10.7	9.0	8.7

<sup>1</sup> Unemployment as a percent of the civilian labor force.

<sup>2</sup> Aggregate hours lost by the unemployed and persons on part time

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Weeks of unemployment	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>DURATION</b>													
Less than 5 weeks .....	3,610	3,415	3,399	3,436	3,415	3,418	3,382	3,355	3,416	3,361	3,383	3,143	3,349
5 to 14 weeks .....	2,671	2,650	2,521	2,407	2,524	2,563	2,613	2,389	2,530	2,477	2,447	2,232	2,118
15 weeks and over .....	2,232	2,299	2,250	2,272	2,373	2,168	2,217	2,171	2,200	2,131	2,050	2,075	2,101
15 to 26 weeks .....	1,065	1,038	1,058	1,068	1,110	950	1,045	1,023	1,022	1,008	945	1,025	1,003
27 weeks and over .....	1,167	1,261	1,192	1,204	1,263	1,218	1,172	1,148	1,178	1,123	1,105	1,049	1,098
Average (mean) duration, in weeks .....	14.8	15.2	15.1	15.6	15.5	15.2	14.8	15.0	15.0	14.6	14.9	14.9	14.9
Median duration, in weeks .....	6.8	7.2	7.1	7.1	7.1	7.0	7.0	7.1	7.0	6.6	6.6	7.0	6.5
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	42.4	40.8	41.6	42.3	41.1	41.9	41.2	42.4	41.9	42.2	42.9	42.2	44.3
5 to 14 weeks .....	31.4	31.7	30.9	29.7	30.4	31.5	31.8	30.2	31.1	31.1	31.1	30.0	28.0
15 weeks and over .....	26.2	27.5	27.5	28.0	28.5	26.6	27.0	27.4	27.0	26.7	26.0	27.9	27.8
15 to 26 weeks .....	12.5	12.4	12.9	13.2	13.4	11.7	12.7	12.9	12.5	12.7	12.0	13.8	13.2
27 weeks and over .....	13.7	15.1	14.6	14.8	15.2	14.9	14.3	14.5	14.5	14.1	14.0	14.1	14.5

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

(Numbers in thousands)

Reasons for unemployment	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	4,214	4,272	4,063	3,824	4,044	3,984	3,947	3,890	3,971	3,839	3,822	3,732	3,611
On layoff .....	1,118	1,074	1,078	1,017	1,029	1,072	1,073	1,078	1,118	998	1,011	958	906
Other job losers .....	3,096	3,198	2,985	2,807	3,015	2,912	2,874	2,812	2,854	2,842	2,811	2,774	2,705
Job leavers .....	979	1,009	1,025	990	1,041	1,027	1,056	1,036	891	1,046	1,000	923	906
Reentrants .....	2,200	2,107	2,205	2,199	2,145	2,190	2,119	2,019	2,054	2,042	2,111	1,940	2,018
New entrants .....	1,046	1,050	989	1,014	1,038	972	1,076	1,015	1,084	1,040	956	911	1,018
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	49.9	50.6	49.1	47.6	48.9	48.7	48.1	48.9	49.6	48.2	48.4	49.7	47.8
On layoff .....	13.2	12.7	13.0	12.7	12.4	13.1	13.1	13.5	14.0	12.5	12.8	12.8	12.0
Other job losers .....	36.7	37.9	36.0	35.0	36.5	35.6	35.1	35.3	35.7	35.7	35.6	37.0	35.8
Job leavers .....	11.6	12.0	12.4	12.3	12.6	12.6	12.9	13.0	11.1	13.1	12.7	12.3	12.0
Reentrants .....	26.1	25.0	26.6	27.4	25.9	26.8	25.8	25.4	25.7	25.6	26.8	25.8	26.7
New entrants .....	12.4	12.4	11.9	12.6	12.6	11.9	13.1	12.8	13.6	13.1	12.1	12.1	13.5
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	3.6	3.6	3.4	3.2	3.4	3.4	3.3	3.3	3.3	3.2	3.2	3.1	3.0
Job leavers .....	.8	.9	.9	.8	.9	.9	.9	.9	.7	.9	.8	.8	.8
Reentrants .....	1.9	1.8	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.6	1.7
New entrants .....	.9	.9	.8	.9	.9	.8	.9	.9	.9	.9	.8	.8	.8

**ESTABLISHMENT DATA  
HISTORICAL EMPLOYMENT**

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

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing						Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Government		
													Federal	State	Local
Annual averages															
1935	27,039	23,558	10,893	897	927	9,069	16,146	2,786	( <sup>1</sup> )	( <sup>1</sup> )	1,320	3,128	753	( <sup>1</sup> )	( <sup>1</sup> )
1936	29,068	25,400	11,933	946	1,160	9,827	17,135	2,973	( <sup>1</sup> )	( <sup>1</sup> )	1,373	3,312	826	( <sup>1</sup> )	( <sup>1</sup> )
1937	31,011	27,255	12,936	1,015	1,127	10,794	18,075	3,134	( <sup>1</sup> )	( <sup>1</sup> )	1,417	3,503	833	( <sup>1</sup> )	( <sup>1</sup> )
1938	29,194	25,311	11,401	891	1,070	9,440	17,793	2,863	( <sup>1</sup> )	( <sup>1</sup> )	1,410	3,458	829	( <sup>1</sup> )	( <sup>1</sup> )
1939	30,603	26,608	12,297	854	1,165	10,278	18,306	2,936	( <sup>1</sup> )	( <sup>1</sup> )	1,447	3,502	905	( <sup>1</sup> )	( <sup>1</sup> )
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,038	( <sup>1</sup> )	( <sup>1</sup> )	1,485	3,665	996	( <sup>1</sup> )	( <sup>1</sup> )
1941	36,539	31,877	15,963	957	1,814	13,192	20,574	3,274	1,960	5,251	1,525	3,905	1,340	( <sup>1</sup> )	( <sup>1</sup> )
1942	40,106	34,624	18,470	992	2,198	15,280	21,636	3,460	1,906	5,212	1,509	4,066	2,213	( <sup>1</sup> )	( <sup>1</sup> )
1943	42,434	36,356	20,114	925	1,587	17,602	22,320	3,647	1,822	5,160	1,481	4,130	2,905	( <sup>1</sup> )	( <sup>1</sup> )
1944	41,864	35,822	19,328	892	1,108	17,328	22,536	3,829	1,845	5,214	1,461	4,145	2,928	( <sup>1</sup> )	( <sup>1</sup> )
1945	40,374	34,431	17,507	836	1,147	15,524	22,867	3,906	1,949	5,365	1,481	4,222	2,808	( <sup>1</sup> )	( <sup>1</sup> )
1946	41,652	36,056	17,248	862	1,683	14,703	24,404	4,061	2,291	6,084	1,675	4,697	2,254	( <sup>1</sup> )	( <sup>1</sup> )
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,471	6,485	1,728	5,025	1,892	( <sup>1</sup> )	( <sup>1</sup> )
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,605	6,687	1,800	5,181	1,863	( <sup>1</sup> )	( <sup>1</sup> )
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,602	6,662	1,828	5,240	1,908	( <sup>1</sup> )	( <sup>1</sup> )
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,835	6,751	1,888	5,357	1,928	( <sup>1</sup> )	( <sup>1</sup> )
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,727	7,015	1,956	5,547	2,302	( <sup>1</sup> )	( <sup>1</sup> )
1952	48,793	42,185	20,198	896	2,668	16,632	28,595	4,248	2,812	7,192	2,035	5,699	2,420	( <sup>1</sup> )	( <sup>1</sup> )
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,854	7,393	2,111	5,835	2,305	( <sup>1</sup> )	( <sup>1</sup> )
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,867	7,368	2,200	5,969	2,188	( <sup>1</sup> )	( <sup>1</sup> )
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,926	7,610	2,298	6,240	2,187	( <sup>1</sup> )	( <sup>1</sup> )
1956	52,369	45,091	21,104	822	3,039	17,243	31,266	4,244	3,018	7,840	2,389	6,497	2,209	( <sup>1</sup> )	( <sup>1</sup> )
1957	52,853	45,239	20,964	828	2,962	17,174	31,889	4,241	3,028	7,858	2,438	6,708	2,217	1,328	4,071
1958	51,324	43,483	19,513	751	2,817	15,945	31,811	3,976	2,980	7,770	2,481	6,765	2,191	1,415	4,232
1959 <sup>2</sup>	53,268	45,186	20,411	732	3,004	16,675	32,857	4,011	3,082	8,045	2,549	7,087	2,233	1,484	4,366
1960	54,189	45,836	20,434	712	2,926	16,796	33,755	4,004	3,143	8,248	2,629	7,378	2,270	1,536	4,547
1961	53,999	45,404	19,857	672	2,859	16,326	34,142	3,903	3,133	8,204	2,688	7,620	2,279	1,607	4,708
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,198	8,368	2,754	7,982	2,340	1,668	4,881
1963	56,653	47,429	20,640	635	3,010	16,995	36,013	3,903	3,248	8,530	2,830	8,277	2,358	1,747	5,121
1964	58,283	48,686	21,005	634	3,097	17,274	37,278	3,951	3,337	8,823	2,911	8,660	2,348	1,856	5,392
1965	60,765	50,689	21,926	632	3,232	18,062	38,839	4,036	3,468	9,250	2,977	9,036	2,378	1,996	5,700
1966	63,901	53,116	23,158	627	3,317	19,214	40,743	4,158	3,597	9,648	3,058	9,498	2,564	2,141	6,080
1967	65,803	54,413	23,308	613	3,248	19,447	42,495	4,268	3,689	9,917	3,185	10,045	2,719	2,302	6,371
1968	67,897	56,058	23,737	606	3,350	19,781	44,160	4,318	3,779	10,320	3,337	10,567	2,737	2,442	6,660
1969	70,384	58,189	24,361	619	3,575	20,167	46,023	4,442	3,907	10,798	3,512	11,169	2,758	2,533	6,904
1970	70,880	58,325	23,578	623	3,588	19,367	47,302	4,515	3,993	11,047	3,645	11,548	2,731	2,664	7,158
1971	71,214	58,331	22,935	609	3,704	18,623	48,278	4,476	4,001	11,351	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,668	628	3,889	19,151	50,007	4,541	4,113	11,836	3,908	12,276	2,684	2,859	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,277	12,329	4,046	12,857	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,433	12,554	4,148	13,441	2,724	3,039	8,407
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,415	12,645	4,185	13,892	2,748	3,179	8,758
1976	79,382	64,511	23,352	779	3,576	18,997	56,030	4,582	4,546	13,209	4,271	14,551	2,733	3,273	8,865
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,708	13,606	4,467	15,303	2,727	3,377	9,023
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,969	14,573	4,724	16,252	2,753	3,474	9,446
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,204	14,989	4,975	17,112	2,773	3,541	9,633
1980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,275	15,035	5,160	17,890	2,866	3,610	9,785
1981	91,156	75,126	25,497	1,139	4,188	20,170	65,659	5,165	5,358	15,189	5,298	18,619	2,772	3,640	9,619
1982	89,586	73,729	23,613	1,128	3,905	18,781	65,753	5,082	5,278	15,179	5,341	19,036	2,739	3,640	9,458
1983	90,200	74,330	23,334	952	3,948	18,434	66,866	4,954	5,268	15,613	5,468	19,694	2,774	3,662	9,434
1984	94,496	78,472	24,727	966	4,383	19,378	69,769	5,159	5,555	16,545	5,689	20,797	2,807	3,734	9,482
1985	97,519	81,125	24,859	927	4,673	19,260	72,660	5,238	5,717	17,356	5,955	22,000	2,875	3,832	9,687
1986	99,610	82,900	24,681	783	4,904	18,994	74,930	5,244	5,735	17,845	6,297	23,099	2,899	3,888	9,923
Monthly data, seasonally adjusted															
1986:															
May	99,389	82,730	24,708	786	4,910	19,012	74,681	5,247	5,749	17,798	6,257	22,971	2,899	3,883	9,877
June	99,323	82,670	24,628	769	4,900	18,959	74,695	5,142	5,712	17,821	6,287	23,080	2,878	3,882	9,893
July	99,601	82,991	24,628	764	4,924	18,940	74,973	5,237	5,735	17,866	6,323	23,202	2,872	3,881	9,857
August	99,772	83,125	24,639	748	4,946	18,945	75,133	5,202	5,736	17,913	6,351	23,284	2,882	3,881	9,884
September	100,039	83,241	24,620	739	4,948	18,933	75,419	5,255	5,738	17,939	6,374	23,317	2,902	3,890	10,006
October	100,209	83,337	24,611	735	4,942	18,934	75,598	5,251	5,731	17,980	6,395	23,369	2,897	3,907	10,068
November	100,415	83,515	24,630	730	4,946	18,954	75,785	5,278	5,728	18,009	6,418	23,452	2,900	3,915	10,085
December	100,567	83,643	24,630	724	4,936	18,970	75,937	5,286	5,725	18,007	6,451	23,544	2,904	3,927	10,093
1987:															
January	100,919	83,983	24,708	718	5,034	18,956	76,211	5,304	5,741	18,080	6,480	23,670	2,912	3,929	10,095
February	101,150	84,215	24,743	719	5,038	18,986	76,407	5,315	5,757	18,140	6,501	23,759	2,916	3,927	10,092
March	101,329	84,352	24,749	722	5,032	18,995	76,580	5,333	5,766	18,136	6,526	23,842	2,922	3,930	10,125
April <sup>p</sup>	101,609	84,570	24,757	730	5,016	19,011	76,852	5,345	5,773	18,209	6,560	23,926	2,929	3,944	10,166
May <sup>p</sup>	101,732	84,696	24,747	735	4,996	19,016	76,985	5,344	5,783	18,223	6,577	24,022	2,921	3,959	10,156

<sup>1</sup> Not available.

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

<sup>p</sup> = preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect new benchmarks and updated seasonal adjustment factors. Because of these revisions, unadjusted data (beginning April 1985) and seasonally adjusted data (beginning January 1982) differ from those previously published. See the article in this issue for additional information.

**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 <sup>1</sup>				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Total</b> .....		99,036	99,815	100,462	101,390	102,164					
<b>Total private</b> .....		82,092	82,834	83,152	84,038	84,797	66,329	67,012	67,102	67,928	68,612
<b>Mining</b> .....		804	781	718	723	731	561	542	506	511	517
Metal mining .....	10	42.5	42.0	42.3	42.2		31.6	31.2	32.0	31.6	
Iron ores .....	101	9.2	9.2	8.9	8.9		7.1	7.1	6.8	6.7	
Copper ores .....	102	10.9	10.9	12.4	12.4		8.3	8.4	9.9	9.8	
Coal mining .....	11,12	179.8	177.8	163.0	162.1		147.3	145.4	133.0	132.3	
Bituminous coal and lignite mining .....	12	177.2	175.2	160.6	159.7		145.2	143.3	131.0	130.2	
Oil and gas extraction .....	13	473.1	448.4	408.5	409.2	411.7	299.4	279.0	262.0	262.9	
Crude petroleum, natural gas, and natural gas liquids ...	131,2	232.2	226.7	204.2	203.8		109.7	106.0	100.1	100.2	
Oil and gas field services .....	138	240.9	221.7	204.3	205.4		189.7	173.0	161.9	162.7	
Nonmetallic minerals, except fuels .....	14	108.9	112.3	104.0	109.4		83.0	86.2	78.8	84.4	
Crushed and broken stone .....	142	38.2	40.1	36.9	39.8		30.8	32.5	29.2	32.0	
Sand and gravel .....	144	33.5	34.7	30.5	32.9		-	-	-	-	
Chemical and fertilizer minerals .....	147	18.2	18.3	17.7	17.8						
<b>Construction</b> .....		4,743	4,950	4,599	4,840	5,041	3,696	3,897	3,522	3,747	3,932
General building contractors .....	15	1,254.3	1,302.4	1,196.4	1,223.0	1,259.6	921.1	966.4	858.5	881.2	
Residential building construction .....	152	636.7	666.0	614.9	636.4	-	455.6	483.9	427.1	445.2	
Operative builders .....	153	55.9	58.1	53.9	53.8		29.9	31.2	27.3	27.2	
Nonresidential building construction .....	154	561.7	578.3	527.6	532.8		435.6	451.3	404.1	408.8	
Heavy construction contractors .....	16	770.8	813.7	676.1	751.3		637.3	681.3	552.0	625.6	
Highway and street construction .....	161	257.3	292.8	223.2	272.5		214.2	248.3	177.8	225.4	
Heavy construction, except highway .....	162	513.5	520.9	452.9	478.8		423.1	433.0	374.2	400.2	
Special trade contractors .....	17	2,717.7	2,833.4	2,726.2	2,865.2		2,138.0	2,249.3	2,111.0	2,240.1	
Plumbing, heating, and air conditioning .....	171	601.3	611.1	624.9	629.7		440.8	449.3	456.1	460.2	
Painting, paper hanging, and decorating .....	172	156.3	163.1	151.5	162.9		128.4	136.0	124.5	135.6	
Electrical work .....	173	499.5	509.7	518.8	522.9		384.5	394.6	396.9	400.3	
Masonry, stonework, and plastering .....	174	435.7	456.1	446.6	470.4		373.3	391.9	376.2	398.5	
Carpentering and flooring .....	175	165.2	174.2	169.1	177.6		125.4	133.8	129.1	136.2	
Roofing and sheet metal work .....	176	196.5	205.9	191.3	203.8		157.7	166.7	149.4	161.6	
<b>Manufacturing</b> .....		18,956	18,981	18,897	18,924	18,983	12,864	12,885	12,846	12,876	12,937
<b>Durable goods</b> .....		11,285	11,286	11,145	11,152	11,182	7,471	7,472	7,382	7,394	7,428
Lumber and wood products .....	24	691.1	705.5	713.5	722.4	739.5	579.1	593.2	595.3	603.3	618.9
Logging camps and logging contractors .....	241	73.7	77.3	74.5	73.1	-	61.0	65.0	61.4	60.3	-
Sawmills and planing mills .....	242	191.3	193.6	196.5	198.0		169.3	171.6	173.4	174.3	
Sawmills and planing mills, general .....	2421	156.9	158.6	159.3	160.5		139.1	140.9	140.7	141.3	
Hardwood dimension and flooring .....	2426	31.7	32.2	34.3	34.5		27.8	28.3	30.1	30.3	
Millwork, plywood, and structural members .....	243	237.2	243.8	253.8	259.2		196.0	202.2	209.2	214.4	
Millwork .....	2431	89.9	92.6	97.8	100.0		72.2	74.9	79.1	81.2	
Wood kitchen cabinets .....	2434	63.4	64.8	69.4	70.8		51.4	52.6	55.6	57.0	
Hardwood veneer and plywood .....	2435	22.9	23.5	23.9	24.3		20.1	20.6	21.0	21.4	
Softwood veneer and plywood .....	2436	36.7	37.1	38.2	38.5		33.6	34.0	34.8	35.0	
Wood containers .....	244	40.7	41.5	40.2	40.7		34.5	35.2	34.0	34.6	
Wood buildings and mobile homes .....	245	70.0	71.3	68.5	71.1		53.5	54.4	51.2	53.8	
Mobile homes .....	2451	48.8	49.3	46.4	48.1		39.1	39.4	36.9	38.7	
Miscellaneous wood products .....	249	78.2	78.0	80.0	80.3		64.8	64.8	66.1	65.9	

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>
<b>Durable goods—Continued</b>											
Furniture and fixtures .....	25	495.4	493.6	503.2	504.7	506.3	396.2	394.0	403.4	404.4	404.8
Household furniture .....	251	295.1	293.4	302.5	303.9	-	248.2	246.5	255.7	256.8	-
Wood household furniture .....	2511	131.4	130.9	134.6	135.3	-	114.4	114.1	117.8	118.4	-
Upholstered household furniture .....	2512	91.9	91.4	96.4	96.9	-	76.1	75.6	80.5	80.9	-
Metal household furniture .....	2514	27.8	27.6	28.4	28.4	-	22.9	22.5	23.5	23.4	-
Mattresses and bedsprings .....	2515	29.9	29.7	30.1	30.2	-	22.9	22.7	22.9	23.0	-
Office furniture .....	252	64.8	64.9	65.5	65.6	-	50.1	49.8	50.0	50.0	-
Public building and related furniture .....	253	26.4	26.4	27.9	28.1	-	20.0	20.0	21.5	21.5	-
Partitions and fixtures .....	254	70.5	71.1	71.3	71.3	-	51.4	51.8	51.0	51.1	-
Miscellaneous furniture and fixtures .....	259	38.6	37.8	36.0	35.8	-	26.5	25.9	25.2	25.0	-
Stone, clay, and glass products .....	32	585.2	593.7	569.9	582.0	590.6	450.0	457.9	438.1	449.8	458.1
Flat glass .....	321	15.6	15.3	15.1	15.2	-	12.2	12.0	11.9	11.9	-
Glass and glassware, pressed or blown .....	322	88.5	89.9	87.9	87.6	-	75.3	76.6	74.8	74.8	-
Glass containers .....	3221	45.2	45.8	43.9	44.0	-	40.6	41.1	39.3	39.5	-
Pressed and blown glass, nec .....	3229	43.3	44.1	44.0	43.6	-	34.7	35.5	35.5	35.3	-
Products of purchased glass .....	323	49.8	49.9	50.5	50.8	-	34.9	34.9	35.4	35.6	-
Cement, hydraulic .....	324	22.7	22.8	21.5	21.7	-	17.7	17.7	16.7	16.8	-
Structural clay products .....	325	37.6	37.7	37.4	37.9	-	29.1	29.3	29.3	29.8	-
Pottery and related products .....	326	36.6	36.8	36.2	36.2	-	28.8	29.0	28.9	28.9	-
Concrete, gypsum, and plaster products .....	327	207.9	214.5	199.2	209.4	-	161.7	167.7	152.6	162.5	-
Concrete block and brick .....	3271	19.0	19.3	19.4	20.1	-	12.7	13.0	12.8	13.5	-
Concrete products, nec .....	3272	69.8	71.4	67.0	68.7	-	53.5	55.0	50.5	52.3	-
Ready-mixed concrete .....	3273	99.6	104.0	93.4	101.2	-	80.3	84.4	74.4	81.8	-
Misc. nonmetallic mineral products .....	329	114.0	114.2	109.1	109.8	-	80.5	80.9	78.0	79.1	-
Abrasive products .....	3291	20.7	20.7	20.5	20.5	-	13.8	13.7	13.7	13.8	-
Asbestos products .....	3292	9.2	9.3	9.2	9.1	-	7.0	7.0	7.1	7.1	-
Mineral wool .....	3296	27.2	27.6	24.4	24.7	-	-	-	-	-	-
Primary metal industries .....	33	773.5	770.8	742.2	748.3	745.0	587.1	584.5	556.4	563.1	559.4
Blast furnaces and basic steel products .....	331	285.9	284.5	267.0	273.8	272.8	220.2	219.5	199.8	206.8	204.8
Blast furnaces and steel mills .....	3312	218.1	216.8	201.0	207.8	-	170.5	169.6	151.2	158.1	-
Steel pipe and tubes .....	3317	24.1	23.8	22.7	22.7	-	17.4	17.3	16.4	16.5	-
Iron and steel foundries .....	332	133.9	133.6	129.9	130.3	-	105.8	105.0	102.2	102.9	-
Gray iron foundries .....	3321	84.2	83.8	80.9	81.7	-	69.0	68.5	65.6	66.4	-
Malleable iron foundries .....	3322	9.3	9.2	8.7	8.5	-	6.6	6.5	6.3	6.2	-
Steel foundries, nec .....	3325	27.4	27.6	26.4	26.2	-	20.3	20.3	19.7	19.6	-
Primary nonferrous metals .....	333	41.4	41.1	39.6	39.6	-	29.4	29.1	27.5	27.8	-
Primary aluminum .....	3334	22.8	22.6	22.1	22.1	-	16.7	16.5	15.2	15.4	-
Nonferrous rolling and drawing .....	335	182.5	182.4	178.0	177.0	-	130.0	129.8	127.4	126.3	-
Copper rolling and drawing .....	3351	23.0	23.0	22.7	22.9	-	17.7	17.7	17.8	17.9	-
Aluminum sheet, plate, and foil .....	3353	29.5	29.6	27.6	27.6	-	21.6	21.7	20.2	20.3	-
Nonferrous wire drawing and insulating .....	3357	77.9	77.5	75.8	74.8	-	55.3	54.9	53.4	52.4	-
Nonferrous foundries .....	336	87.1	86.9	86.2	86.2	-	70.0	69.7	69.2	69.1	-
Aluminum foundries .....	3361	53.5	53.4	53.2	53.1	-	43.6	43.5	43.4	43.2	-
Fabricated metal products .....	34	1,436.3	1,437.8	1,414.5	1,417.7	1,422.8	1,062.5	1,063.2	1,047.4	1,049.9	1,054.3
Metal cans and shipping containers .....	341	58.4	58.3	56.2	56.5	-	50.0	50.0	48.2	48.4	-
Metal cans .....	3411	47.1	47.0	45.4	45.5	-	41.2	41.2	39.7	39.8	-
Cutlery, hand tools, and hardware .....	342	136.8	137.2	133.6	133.3	-	100.7	101.0	98.7	98.2	-
Hand and edge tools, and hand saws and blades .....	3423.5	45.6	45.7	46.6	46.8	-	33.3	33.4	34.1	34.2	-
Hardware, nec .....	3429	79.0	79.2	75.9	75.5	-	59.1	59.3	57.2	56.7	-
Plumbing and heating, except electric .....	343	60.6	60.7	60.6	60.5	-	43.0	43.1	43.4	43.2	-
Plumbing fittings and brass goods .....	3432	24.5	24.4	24.5	24.5	-	18.0	17.8	18.0	17.9	-
Heating equipment, except electric .....	3433	25.5	25.5	25.4	25.4	-	17.0	17.1	17.2	17.2	-
Fabricated structural metal products .....	344	433.3	438.1	427.5	429.6	-	303.6	308.2	299.5	302.0	-
Fabricated structural metal .....	3441	79.5	79.5	76.1	76.0	-	56.5	56.3	53.7	53.8	-
Metal doors, sash, and trim .....	3442	88.9	92.4	89.7	92.1	-	65.7	69.0	65.8	67.8	-
Fabricated plate work (boiler shops) .....	3443	96.7	95.9	92.6	91.8	-	60.8	60.0	57.4	57.4	-
Sheet metal work .....	3444	107.3	108.4	108.5	108.7	-	78.8	80.1	80.9	80.8	-
Architectural metal work .....	3446	28.8	29.0	28.8	28.8	-	20.9	21.3	21.0	21.0	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>
<b>Durable goods—Continued</b>											
<b>Fabricated metal products—Continued</b>											
Screw machine products, bolts, etc .....	345	93.6	93.2	93.9	94.4		71.4	71.2	72.0	72.1	
Screw machine products .....	3451	44.4	44.2	44.7	44.9		35.9	35.8	36.7	36.6	
Bolts, nuts, rivets, and washers .....	3452	49.2	49.0	49.2	49.5		35.5	35.4	35.3	35.5	
Metal forgings and stampings .....	346	249.2	246.0	240.6	239.7		200.6	197.3	192.5	191.6	
Iron and steel forgings .....	3462	33.2	32.4	31.1	30.9		25.6	24.9	24.0	23.8	
Automotive stampings .....	3465	107.1	105.9	102.8	101.9		91.9	90.4	87.6	87.0	
Metal stampings, nec .....	3469	97.8	96.7	96.3	96.3		74.9	73.9	73.3	73.1	
Metal services, nec .....	347	109.4	109.7	113.8	113.8		87.9	87.9	91.1	90.9	
Plating and polishing .....	3471	71.9	72.1	73.4	73.6		58.3	58.2	59.3	59.3	
Metal coating and allied services .....	3479	37.5	37.6	40.4	40.2		29.6	29.7	31.8	31.6	
Ordnance and accessories, nec .....	348	76.2	76.7	79.3	79.7		47.6	47.9	50.4	50.9	
Ammunition, except for small arms, nec .....	3483	43.5	43.7	46.5	46.6		26.6	26.7	28.7	28.7	
Misc. fabricated metal products .....	349	218.8	217.9	209.0	210.2		157.7	156.6	151.6	152.6	
Valves and pipe fittings .....	3494	81.9	81.2	75.9	76.2		54.3	53.7	50.7	51.0	
Misc. fabricated wire products .....	3496	52.0	52.2	51.1	51.3		39.4	39.3	38.7	38.8	
Machinery, except electrical .....	35	2,087.8	2,076.0	2,025.1	2,025.6	2,026.7	1,249.1	1,238.8	1,200.8	1,203.2	1,208.8
Engines and turbines .....	351	104.7	102.7	99.2	98.7	-	66.4	64.0	62.1	62.0	-
Turbines and turbine generator sets .....	3511	33.3	33.3	30.6	30.0		17.9	17.9	16.2	15.8	
Internal combustion engines, nec .....	3519	71.4	69.4	68.6	68.7		48.5	46.1	45.9	46.2	
Farm and garden machinery .....	352	97.0	95.1	99.9	101.3		66.4	64.9	65.9	67.4	
Farm machinery and equipment .....	3523	71.1	70.0	71.3	73.1		46.0	45.1	43.6	45.5	
Construction and related machinery .....	353	233.6	229.5	215.7	215.4		142.8	140.0	126.5	126.3	
Construction machinery .....	3531	82.5	82.3	78.8	78.4		50.5	50.4	46.0	46.1	
Mining machinery .....	3532	20.1	20.0	19.5	19.5		12.5	12.5	11.6	11.6	
Oil field machinery .....	3533	52.4	48.5	40.3	40.4		31.7	29.0	23.0	23.0	
Conveyors and conveying equipment .....	3535	29.6	29.7	29.3	29.3		15.7	15.8	15.0	14.8	
Industrial trucks and tractors .....	3537	25.4	25.7	25.3	25.3		17.9	18.1	17.8	17.6	
Metalworking machinery .....	354	306.0	306.1	299.0	298.9		218.0	218.2	213.5	213.3	
Machine tools, metal cutting types .....	3541	50.7	50.5	46.4	45.9		32.0	31.7	29.1	28.7	
Machine tools, metal forming types .....	3542	19.5	19.6	19.2	19.1		11.8	11.9	11.9	11.9	
Special dies, tools, jigs, and fixtures .....	3544	141.7	142.0	142.5	142.4		109.9	110.2	109.2	109.1	
Machine tool accessories .....	3545	54.7	54.9	52.9	53.6		38.0	38.0	37.2	37.7	
Power driven hand tools .....	3546	21.7	21.2	21.2	21.2		15.6	15.4	15.6	15.5	
Special industry machinery .....	355	161.5	160.6	157.5	157.6		95.1	94.6	93.6	93.6	
Food products machinery .....	3551	37.4	37.7	37.6	37.4		22.5	22.6	22.8	22.7	
Textile machinery .....	3552	18.3	18.5	19.7	19.9		12.3	12.3	13.2	13.3	
Printing trades machinery .....	3555	28.1	27.7	26.8	26.7		16.3	16.1	15.7	15.6	
General industrial machinery .....	356	256.3	255.3	251.8	251.7		162.7	162.0	160.5	160.7	
Pumps and pumping equipment .....	3561	45.3	45.1	43.6	43.5		27.0	26.6	25.0	24.9	
Ball and roller bearings .....	3562	44.0	44.0	43.1	43.0		32.5	32.8	32.7	32.8	
Air and gas compressors .....	3563	22.8	22.2	21.6	21.7		13.0	12.7	12.2	12.1	
Blowers and fans .....	3564	30.3	30.5	30.2	30.5		19.1	19.2	19.3	19.6	
Speed changers, drives, and gears .....	3566	19.7	19.5	19.5	20.0		13.5	13.3	13.4	13.7	
Power transmission equipment, nec .....	3568	16.3	16.3	16.2	16.3		10.9	11.0	10.6	10.8	
Office and computing machines .....	357	477.0	476.4	455.7	454.8		163.9	162.8	147.7	148.7	
Electronic computing equipment .....	3573	419.7	419.5	399.7	398.8		139.8	139.0	123.8	124.9	
Refrigeration and service machinery .....	358	172.7	173.6	173.9	174.4		121.6	122.4	124.1	124.5	
Refrigeration and heating equipment .....	3585	122.7	123.8	124.6	124.8		88.5	89.5	90.8	91.1	
Misc. machinery, except electrical .....	359	279.0	276.7	272.4	272.8		212.2	209.9	206.9	206.7	
Carburetors, pistons, rings, and valves .....	3592	37.4	37.0	35.3	34.9		30.6	30.2	29.1	28.9	
Machinery, except electrical, nec .....	3599	241.6	239.7	237.1	237.9		181.6	179.7	177.8	177.8	
Electrical and electronic equipment .....	36	2,121.8	2,122.0	2,092.6	2,086.5	2,080.9	1,228.4	1,226.7	1,217.1	1,214.7	1,215.5
Electric distributing equipment .....	361	107.8	107.6	105.3	105.4	-	77.7	77.7	76.8	76.8	-
Transformers .....	3612	50.6	50.6	50.1	50.0		37.2	37.3	37.4	37.0	
Switchgear and switchboard apparatus .....	3613	57.2	57.0	55.2	55.4		40.5	40.4	39.4	39.8	
Electrical industrial apparatus .....	362	187.1	188.1	185.8	184.6		130.6	131.1	127.6	126.6	
Motors and generators .....	3621	90.1	91.0	90.8	89.7		69.7	70.5	69.2	68.4	
Industrial controls .....	3622	61.4	61.5	59.2	59.2		36.6	36.4	34.1	34.0	
Household appliances .....	363	132.6	132.6	135.4	135.0		103.8	103.4	107.1	106.9	
Household refrigerators and freezers .....	3632	28.0	28.3	28.6	28.5		22.2	22.4	23.3	23.4	
Household laundry equipment .....	3633	22.4	22.2	23.4	22.8		17.9	17.6	18.3	17.8	
Electric housewares and fans .....	3634	33.7	33.5	33.1	34.3		25.1	24.8	25.1	25.9	

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Durable goods—Continued</b>											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment .....	364	197.1	196.5	192.5	192.0		142.3	141.9	139.1	138.8	
Electric lamps .....	3641	27.0	27.3	27.2	27.2		23.2	23.5	23.2	23.2	
Current-carrying wiring devices .....	3643	78.6	78.6	74.1	74.5		51.6	51.6	48.3	48.8	
Noncurrent-carrying wiring devices .....	3644	17.9	17.6	16.7	16.5		12.6	12.4	11.8	11.8	
Residential lighting fixtures .....	3645	27.5	26.8	27.9	26.9		20.7	20.1	21.3	20.4	
Radio and TV receiving equipment .....	365	79.6	79.7	79.4	78.3		54.6	54.6	53.4	52.5	
Radio and TV receiving sets .....	3651	62.5	62.4	60.7	60.6		42.9	42.6	40.0	39.9	
Communication equipment .....	366	635.6	635.4	617.4	614.6		267.2	266.5	258.5	258.2	
Telephone and telegraph apparatus .....	3661	130.4	129.7	118.4	116.7		76.2	75.8	68.3	67.7	
Radio and TV communication equipment .....	3662	505.2	505.7	499.0	497.9		191.0	190.7	190.2	190.5	
Electronic components and accessories .....	367	629.6	629.5	625.1	626.2		347.9	346.8	349.7	350.5	
Electronic tubes .....	3671-3	40.1	39.9	38.7	38.6		24.0	23.8	24.1	24.5	
Semiconductors and related devices .....	3674	266.4	267.7	263.5	263.4		99.3	100.0	102.3	101.7	
Electronic components, nec .....	3679	252.2	250.9	252.4	253.1		171.6	169.8	170.4	171.0	
Misc. electrical equipment and supplies .....	369	152.4	152.6	151.7	150.4		104.3	104.7	104.9	104.4	
Storage batteries .....	3691	27.7	27.6	29.1	28.9		21.4	21.4	22.4	22.2	
Engine electrical equipment .....	3694	65.8	65.9	65.7	65.3		48.6	49.0	50.0	49.6	
Transportation equipment .....	37	2,019.7	2,013.4	2,025.8	2,008.2	2,011.6	1,271.5	1,266.0	1,281.9	1,263.6	1,265.6
Motor vehicles and equipment .....	371	875.5	868.4	857.2	841.1	842.0	676.0	669.6	668.4	651.6	651.8
Motor vehicles and car bodies .....	3711	402.5	396.7	385.7	369.0	-	300.6	294.8	291.7	274.3	-
Truck and bus bodies .....	3713	38.7	38.9	42.0	42.8		30.3	30.4	33.1	33.8	
Motor vehicle parts and accessories .....	3714	390.3	388.7	384.4	383.7		311.2	310.0	308.7	308.2	
Truck trailers .....	3715	27.8	28.7	28.8	29.1		21.2	22.4	22.1	22.3	
Aircraft and parts .....	372	667.3	669.6	689.3	687.5		325.6	328.5	345.9	343.9	
Aircraft .....	3721	332.3	334.7	349.9	349.5		141.4	144.2	157.4	156.6	
Aircraft engines and engine parts .....	3724	152.2	152.3	156.2	155.9		77.3	77.4	80.2	80.1	
Aircraft equipment, nec .....	3728	182.8	182.6	183.2	182.1		106.9	106.9	108.3	107.2	
Ship and boat building and repairing .....	373	187.4	187.0	186.2	185.4		140.9	140.7	139.2	138.4	
Ship building and repairing .....	3731	132.1	131.9	128.2	125.5		96.2	96.1	92.2	89.5	
Boat building and repairing .....	3732	55.3	55.1	58.0	59.9		44.7	44.6	47.0	48.9	
Railroad equipment .....	374	29.3	26.9	23.3	22.9		20.4	18.2	15.5	15.3	
Guided missiles, space vehicles, and parts .....	376	198.0	199.8	206.4	207.1		66.4	67.0	69.9	70.2	
Guided missiles and space vehicles .....	3761	150.0	151.1	156.1	156.4		48.8	49.0	50.2	50.9	
Miscellaneous transportation equipment .....	379	49.8	49.4	51.3	51.9		33.5	33.2	34.7	35.7	
Travel trailers and campers .....	3792	18.9	18.8	20.5	21.1		14.9	14.6	16.0	16.7	
Instruments and related products .....	38	711.4	709.2	694.3	693.1	693.1	385.6	384.0	377.2	376.5	377.1
Engineering and scientific instruments .....	381	84.2	83.9	83.1	82.9	-	36.5	36.8	37.3	37.3	-
Measuring and controlling devices .....	382	247.5	247.0	239.5	238.3		136.7	136.1	134.1	133.0	
Environmental controls .....	3822	42.5	42.2	41.2	40.9		27.0	26.7	26.0	26.0	
Process control instruments .....	3823	55.3	55.3	52.0	51.6		28.2	28.2	26.9	26.6	
Instruments to measure electricity .....	3825	106.5	106.2	101.3	100.9		54.1	53.5	51.1	50.5	
Optical instruments and lenses .....	383	33.3	33.1	32.3	32.3		16.6	16.4	15.7	15.8	
Medical instruments and supplies .....	384	179.6	180.4	179.1	179.5		108.7	108.9	107.4	107.7	
Surgical and medical instruments .....	3841	87.1	87.5	85.6	86.1		49.7	49.8	49.3	49.3	
Surgical appliances and supplies .....	3842	78.1	78.5	79.4	79.4		51.0	51.1	50.2	50.5	
Ophthalmic goods .....	385	38.1	38.4	40.9	41.2		25.5	25.7	27.5	27.9	
Photographic equipment and supplies .....	386	117.8	115.8	108.0	107.7		54.0	52.8	47.1	46.8	
Watches, clocks, and watchcases .....	387	10.9	10.6	11.4	11.2		7.6	7.3	8.1	8.0	
Miscellaneous manufacturing .....	39	362.4	363.9	363.8	363.3	365.0	261.5	263.2	264.6	265.4	265.3
Jewelry, silverware, and plated ware .....	391	53.8	54.1	53.0	53.3	-	36.7	37.2	36.7	37.1	-
Jewelry, precious metal .....	3911	37.7	38.0	36.9	37.0		25.5	25.8	25.3	25.5	
Musical instruments .....	393	12.2	12.5	12.5	12.5		9.7	10.0	10.2	10.3	
Toys and sporting goods .....	394	93.8	95.4	96.7	96.5		69.2	70.6	72.0	72.3	
Dolls, games, toys, and children's vehicles .....	3942,4	43.3	44.9	44.2	43.9		30.0	31.6	31.6	31.5	
Sporting and athletic goods, nec .....	3949	50.5	50.5	52.5	52.6		39.2	39.0	40.4	40.8	
Pens, pencils, office, and art supplies .....	395	33.1	33.1	33.1	33.0		22.3	22.5	22.6	22.8	
Costume jewelry and notions .....	396	40.4	40.5	42.1	42.3		30.9	31.1	33.0	33.1	
Costume jewelry .....	3961	22.7	22.6	25.5	25.3		17.2	17.3	20.1	19.9	
Miscellaneous manufactures .....	399	129.1	128.3	126.4	125.7		92.7	91.8	90.1	89.8	
Signs and advertising displays .....	3993	56.6	56.0	55.0	54.7		39.8	39.2	38.4	38.2	

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 <sup>1</sup>				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Nondurable goods</b> .....		7,671	7,695	7,752	7,772	7,801	5,393	5,413	5,464	5,482	5,509
Food and kindred products .....	20	1,549.9	1,575.3	1,576.2	1,579.0	1,596.1	1,073.1	1,094.7	1,098.7	1,101.3	1,116.9
Meat products .....	201	359.7	367.2	373.5	374.2	-	304.9	311.8	315.9	316.3	-
Meat packing plants .....	2011	135.8	137.2	136.0	135.9	-	113.8	115.0	113.3	113.5	-
Sausages and other prepared meats .....	2013	73.9	75.5	74.7	74.9	-	54.2	55.8	54.9	54.6	-
Poultry dressing plants .....	2016	132.5	137.0	144.2	144.9	-	121.1	125.2	130.6	131.2	-
Dairy products .....	202	161.0	164.2	162.2	163.7	-	95.5	98.3	98.2	99.5	-
Cheese, natural and processed .....	2022	39.0	39.9	38.2	38.5	-	29.7	30.5	29.8	30.2	-
Fluid milk .....	2026	83.9	84.7	85.1	85.3	-	40.9	41.6	42.8	42.8	-
Preserved fruits and vegetables .....	203	208.2	213.8	214.8	213.3	-	166.9	172.0	172.1	170.6	-
Canned specialties .....	2032	23.4	23.8	24.8	24.1	-	16.6	17.0	17.5	16.7	-
Canned fruits and vegetables .....	2033	65.0	68.0	66.5	66.5	-	51.1	54.1	52.7	52.8	-
Frozen fruits and vegetables .....	2037	43.9	45.7	42.3	41.4	-	37.7	39.0	36.6	35.8	-
Grain mill products .....	204	120.1	120.4	118.6	118.8	-	81.4	81.8	81.0	80.7	-
Flour and other grain mill products .....	2041	21.9	21.5	21.7	22.2	-	14.9	14.5	14.4	14.6	-
Prepared feeds, nec .....	2048	42.8	43.2	41.8	41.9	-	26.6	26.9	26.6	26.4	-
Bakery products .....	205	206.8	207.5	208.5	209.0	-	123.8	124.3	125.3	125.8	-
Bread, cake, and related products .....	2051	163.7	165.6	164.0	164.6	-	89.3	91.0	89.1	89.8	-
Cookies and crackers .....	2052	43.1	41.9	44.5	44.4	-	34.5	33.3	36.2	36.0	-
Sugar and confectionery products .....	206	86.9	89.4	92.5	91.9	-	66.1	68.2	71.2	70.4	-
Cane and beet sugar .....	2061-3	19.6	20.3	22.1	22.7	-	14.9	15.5	16.6	17.0	-
Confectionery products .....	2065	49.3	50.7	51.5	50.2	-	39.4	40.6	42.0	40.8	-
Fats and oils .....	207	34.2	34.0	32.9	32.3	-	25.2	25.0	24.1	23.6	-
Beverages .....	208	209.5	213.5	208.3	208.3	-	88.0	90.6	89.0	89.5	-
Malt beverages .....	2082	41.2	41.6	40.0	40.1	-	25.9	26.4	25.0	25.3	-
Bottled and canned soft drinks .....	2086	124.6	127.1	123.4	123.9	-	40.4	41.3	40.0	40.3	-
Misc. food and kindred products .....	209	163.5	165.3	164.9	167.5	-	121.3	122.7	121.9	124.9	-
Tobacco manufactures .....	21	56.7	55.7	55.5	53.2	53.5	41.8	40.9	41.6	39.4	39.3
Cigarettes .....	211	41.9	42.0	40.5	40.0	-	31.0	31.0	30.2	29.8	-
Textile mill products .....	22	700.0	702.1	722.1	724.4	726.4	604.2	607.0	627.2	629.4	631.6
Weaving mills, cotton .....	221	102.2	101.1	105.2	105.8	-	92.1	90.8	94.9	95.5	-
Weaving mills, synthetics .....	222	82.7	83.2	86.1	86.5	-	73.5	74.1	76.7	76.9	-
Weaving and finishing mills, wool .....	223	17.9	17.9	17.9	17.9	-	15.0	15.0	14.8	14.7	-
Narrow fabric mills .....	224	22.2	22.2	22.7	22.8	-	19.1	19.1	19.7	19.8	-
Knitting mills .....	225	203.7	206.3	208.9	209.7	-	176.8	179.4	183.1	184.2	-
Women's hosiery, except socks .....	2251	35.2	35.1	35.3	35.1	-	31.3	31.2	31.5	31.4	-
Hosiery, nec .....	2252	35.9	36.3	36.4	36.4	-	32.0	32.5	32.7	32.7	-
Knit outerwear mills .....	2253	67.5	69.1	71.8	72.1	-	59.0	60.5	63.7	64.1	-
Knit underwear mills .....	2254	24.0	24.1	23.2	23.2	-	19.7	19.8	19.6	19.6	-
Circular knit fabric mills .....	2257	23.4	23.8	24.7	25.1	-	20.2	20.7	21.5	22.0	-
Textile finishing, except wool .....	226	59.5	59.4	60.3	60.3	-	49.7	50.0	50.7	50.6	-
Finishing plants, cotton .....	2261	23.3	23.1	23.6	23.5	-	19.8	19.7	20.1	19.9	-
Finishing plants, synthetics .....	2262	22.4	22.1	22.5	22.5	-	18.1	18.0	18.3	18.3	-
Floor covering mills .....	227	54.7	54.6	57.9	58.2	-	45.0	44.9	47.1	47.3	-
Yarn and thread mills .....	228	102.2	102.8	108.1	108.2	-	90.5	91.3	97.2	97.1	-
Yarn mills, except wool .....	2281	73.9	74.4	78.7	78.8	-	66.6	67.1	71.4	71.4	-
Throwing and winding mills .....	2282	15.2	15.5	16.2	16.1	-	13.1	13.4	14.5	14.3	-
Miscellaneous textile goods .....	229	54.9	54.6	55.0	55.0	-	42.5	42.4	43.0	43.3	-
Apparel and other textile products .....	23	1,109.7	1,109.0	1,105.2	1,109.7	1,112.5	933.4	933.7	928.3	933.6	934.7
Men's and boys' suits and coats .....	231	58.8	59.7	57.4	56.9	-	50.6	51.3	49.2	48.7	-
Men's and boys' furnishings .....	232	311.4	312.4	307.6	311.2	-	269.6	270.9	266.0	269.2	-
Men's and boys' shirts and nightwear .....	2321	86.3	86.9	85.3	86.4	-	74.8	75.3	73.1	74.1	-
Men's and boys' separate trousers .....	2327	56.3	56.3	54.2	54.2	-	49.2	49.6	47.5	47.6	-
Men's and boys' work clothing .....	2328	94.3	94.6	92.0	94.4	-	82.6	82.9	80.8	82.9	-
Women's and misses' outerwear .....	233	361.9	358.6	361.4	360.6	-	301.4	298.3	301.1	301.2	-
Women's and misses' blouses and waists .....	2331	49.9	49.0	51.0	50.2	-	41.5	40.5	42.4	41.9	-
Women's and misses' dresses .....	2335	90.5	87.3	88.4	87.9	-	77.2	73.8	74.1	73.9	-
Women's and misses' suits and coats .....	2337	42.4	44.9	40.7	41.0	-	34.7	37.0	32.8	33.1	-
Women's and misses' outerwear, nec .....	2339	179.1	177.4	181.3	181.5	-	148.0	147.0	151.8	152.3	-

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 <sup>1</sup>				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Apparel and other textile products—Continued											
Women's and children's undergarments .....	234	77.3	76.5	71.6	73.7		64.8	63.7	59.0	60.7	
Women's and children's underwear .....	2341	62.2	61.8	57.7	59.8		53.6	52.9	48.9	50.7	
Brassieres and allied garments .....	2342	15.1	14.7	13.9	13.9		11.2	10.8	10.1	10.0	
Children's outerwear .....	236	59.5	60.6	56.8	55.7		50.0	51.1	47.6	46.5	
Children's dresses and blouses .....	2361	25.0	25.2	23.6	23.2		21.9	22.1	20.6	20.3	
Misc. apparel and accessories .....	238	41.0	41.6	41.7	42.1		34.0	34.8	34.9	35.4	
Misc. fabricated textile products .....	239	181.2	180.7	190.4	190.7		148.4	148.6	156.1	157.1	
Curtains and draperies .....	2391	25.4	25.2	26.6	26.7		20.3	20.3	21.4	21.8	
House furnishings, nec .....	2392	48.2	48.5	50.9	51.6		40.8	41.2	43.0	43.6	
Automotive and apparel trimmings .....	2396	38.5	38.4	40.2	39.8		32.3	32.3	33.8	33.5	
Paper and allied products .....	26	669.3	671.2	675.0	673.3	674.2	507.4	509.3	512.6	511.1	512.3
Paper and pulp mills .....	261,2,6	193.8	194.9	193.4	192.6	-	148.7	149.6	147.1	146.3	-
Paper mills, except building paper .....	262	169.9	170.7	169.3	168.3		129.5	130.2	128.2	127.4	
Paperboard mills .....	263	53.0	53.1	52.9	52.6		40.6	40.5	39.7	39.4	
Misc. converted paper products .....	264	227.2	228.1	231.3	231.4		167.0	167.8	172.4	172.5	
Paper coating and glazing .....	2641	57.4	57.5	58.0	57.8		35.8	35.9	37.2	37.1	
Envelopes .....	2642	26.5	26.6	27.0	26.9		20.4	20.5	21.2	21.0	
Bags, except textile bags .....	2643	50.5	50.3	52.3	52.3		39.5	39.2	41.4	41.4	
Paperboard containers and boxes .....	265	195.3	195.1	197.4	196.7		151.1	151.4	153.4	152.9	
Folding paperboard boxes .....	2651	42.5	42.4	42.6	42.6		33.6	33.7	33.7	33.7	
Corrugated and solid fiber boxes .....	2653	104.2	103.8	104.8	103.5		78.7	78.5	79.6	78.3	
Sanitary food containers .....	2654	22.1	22.4	23.0	23.4		18.5	18.9	19.7	20.2	
Printing and publishing .....	27	1,450.0	1,450.1	1,486.5	1,493.2	1,493.5	819.2	817.2	832.3	837.0	838.4
Newspapers .....	271	454.5	455.3	457.0	456.5	-	169.3	170.2	168.3	168.4	-
Periodicals .....	272	113.9	114.1	120.0	119.4		41.9	42.0	42.9	43.4	
Books .....	273	110.6	109.9	114.2	115.8		61.6	60.7	62.5	62.5	
Book publishing .....	2731	81.6	81.2	84.8	86.1		38.4	37.8	39.3	39.3	
Book printing .....	2732	29.0	28.7	29.4	29.7		23.2	22.9	23.2	23.2	
Miscellaneous publishing .....	274	70.8	70.9	75.9	77.2		38.7	38.3	41.1	41.6	
Commercial printing .....	275	506.3	505.4	522.9	528.2		369.2	367.8	377.5	381.4	
Commercial printing, letterpress .....	2751	161.2	160.9	165.5	167.3		118.2	117.8	119.7	121.0	
Commercial printing, lithographic .....	2752	318.7	318.5	329.3	332.5		230.1	229.5	235.3	237.8	
Manifold business forms .....	276	49.5	49.7	49.0	48.6		34.6	34.7	34.3	33.9	
Blankbooks and bookbinding .....	278	71.5	71.8	73.1	73.6		57.8	57.5	58.8	59.2	
Printing trade services .....	279	50.8	50.8	52.6	52.7		38.1	38.0	39.3	39.2	
Chemicals and allied products .....	28	1,022.1	1,018.9	1,015.5	1,016.0	1,019.5	568.4	565.6	569.6	568.5	572.3
Industrial inorganic chemicals .....	281	136.9	136.6	132.6	132.6	-	69.9	69.7	68.2	67.9	-
Industrial inorganic chemicals, nec .....	2819	90.9	90.8	88.2	87.7		48.9	49.2	49.4	48.8	
Plastics materials and synthetics .....	282	167.6	167.2	164.7	165.0		112.7	112.6	110.1	109.9	
Plastics materials and resins .....	2821	74.4	74.5	75.1	75.1		44.9	45.0	44.7	44.5	
Organic fibers, noncellulosic .....	2824	63.8	63.2	60.9	61.0		45.8	45.5	44.0	43.9	
Drugs .....	283	205.1	206.1	208.7	209.6		95.7	96.1	96.8	96.2	
Pharmaceutical preparations .....	2834	163.6	164.1	166.8	167.5		75.3	75.4	76.3	75.8	
Soap, cleaners, and toilet goods .....	284	144.3	144.8	148.9	147.1		91.4	91.3	94.1	92.6	
Soap and other detergents .....	2841	41.5	41.7	41.8	41.1		26.4	26.5	26.3	26.0	
Polishing, sanitation, and finishing preparations .....	2842,3	39.0	39.4	39.8	40.1		21.4	21.5	21.3	21.7	
Toilet preparations .....	2844	63.8	63.7	67.3	65.9		43.6	43.3	46.5	44.9	
Paints and allied products .....	285	63.0	63.3	62.5	62.7		30.3	30.7	30.5	30.6	
Industrial organic chemicals .....	286	154.8	154.5	151.4	151.4		80.7	80.9	83.4	83.9	
Cyclic crudes and intermediates .....	2865	30.2	30.2	28.9	29.1		20.0	20.0	19.2	19.3	
Gum, wood, and industrial organic chemicals, nec .....	2861,9	124.6	124.3	122.5	122.3		60.7	60.9	64.2	64.6	
Agricultural chemicals .....	287	57.6	53.8	54.9	55.4		36.0	32.6	34.9	35.4	
Miscellaneous chemical products .....	289	92.8	92.6	91.8	92.2		51.7	51.7	51.6	52.0	
Petroleum and coal products .....	29	170.8	172.0	162.0	163.4	165.8	106.1	107.5	104.0	106.2	108.2
Petroleum refining .....	291	133.0	132.6	124.7	124.6	-	79.5	79.4	78.2	78.7	-
Paving and roofing materials .....	295	26.2	27.7	25.9	27.5		19.9	21.3	19.3	21.0	

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Rubber and misc. plastics products .....	30	788.9	788.2	807.6	811.5	810.4	612.7	612.0	628.0	631.6	631.0
Tires and inner tubes .....	301	89.5	87.5	86.5	86.6	-	64.5	63.4	63.0	63.3	-
Rubber and plastics footwear .....	302	10.9	10.6	10.3	10.4	-	9.3	9.0	8.4	8.5	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	21.8	21.8	21.8	21.9	-	14.9	14.7	15.8	15.8	-
Fabricated rubber products, nec .....	306	103.8	102.9	103.9	104.0	-	79.8	79.0	80.0	79.9	-
Miscellaneous plastics products .....	307	562.9	565.4	585.1	588.6	-	444.2	445.9	460.8	464.1	-
Leather and leather products .....	31	153.1	152.3	146.4	148.2	149.0	126.5	125.3	121.7	123.8	124.5
Leather tanning and finishing .....	311	14.2	14.3	13.8	14.1	-	11.8	11.8	11.4	11.6	-
Footwear, except rubber .....	314	91.7	91.2	84.8	86.1	-	77.4	76.8	72.6	74.0	-
Men's footwear, except athletic .....	3143	40.4	40.3	37.5	37.9	-	32.5	32.2	30.1	30.7	-
Women's footwear, except athletic .....	3144	32.4	32.1	31.0	31.4	-	28.4	28.2	27.2	27.6	-
Luggage .....	316	11.0	11.0	10.6	11.1	-	7.9	8.0	7.6	7.9	-
Handbags and personal leather goods .....	317	19.1	18.4	18.9	18.3	-	15.3	14.6	15.2	15.0	-
<b>Transportation and public utilities .....</b>		<b>5,210</b>	<b>5,252</b>	<b>5,275</b>	<b>5,311</b>	<b>5,349</b>	<b>4,296</b>	<b>4,339</b>	<b>4,366</b>	<b>4,396</b>	<b>4,431</b>
Transportation .....		2,997	3,033	3,065	3,098	3,131	-	-	-	-	-
Railroad transportation .....	40	334.6	337.5	300.5	308.5	-	-	-	-	-	-
Class I railroads <sup>e</sup> .....	4011	297.9	300.4	265.7	273.0	-	-	-	-	-	-
Local and interurban passenger transit .....	41	294.6	301.0	291.0	289.8	-	273.2	278.8	269.7	268.5	-
Local and suburban transportation .....	411	97.3	97.8	99.8	99.6	-	89.7	90.1	91.2	91.1	-
Taxicabs .....	412	36.2	35.9	35.9	35.5	-	-	-	-	-	-
Intercity highway transportation .....	413	32.9	34.2	30.9	31.1	-	29.7	31.0	27.9	28.2	-
School buses .....	415	106.9	110.2	100.8	99.8	-	-	-	-	-	-
Trucking and warehousing .....	42	1,344.2	1,357.2	1,399.3	1,415.2	-	1,167.6	1,179.0	1,213.5	1,227.5	-
Trucking and trucking terminals .....	421,3	1,250.1	1,263.3	1,298.4	1,314.3	-	1,088.6	1,100.5	1,129.0	1,143.3	-
Public warehousing .....	422	94.1	93.9	100.9	100.9	-	79.0	78.5	84.5	84.2	-
Water transportation .....	44	170.7	176.7	164.7	171.5	-	-	-	-	-	-
Local water transportation .....	445	25.3	27.0	24.7	26.1	-	-	-	-	-	-
Water transportation services .....	446	91.7	95.6	90.1	94.0	-	-	-	-	-	-
Transportation by air .....	45	551.1	559.7	595.9	597.2	-	-	-	-	-	-
Air transportation .....	451,2	485.9	494.0	527.7	529.1	-	-	-	-	-	-
Air transportation services .....	458	65.2	65.7	68.2	68.1	-	-	-	-	-	-
Pipe lines, except natural gas .....	46	18.0	17.9	17.6	17.5	-	13.1	13.1	12.7	12.7	-
Transportation services .....	47	283.4	282.9	295.8	298.6	-	-	-	-	-	-
Freight forwarding .....	471	61.6	61.9	69.4	70.0	-	-	-	-	-	-
Communication and public utilities .....		2,213	2,219	2,210	2,213	2,218	-	-	-	-	-
Communication .....	48	1,296.5	1,296.8	1,285.3	1,285.9	-	993.3	993.9	977.8	978.3	-
Telephone communication .....	481	900.7	899.9	885.5	885.2	-	675.0	674.9	655.6	656.1	-
Radio and television broadcasting .....	483	237.2	238.3	236.4	236.2	-	194.3	195.1	193.9	193.8	-
Radio broadcasting .....	4832	112.7	113.2	112.8	113.4	-	-	-	-	-	-
Television broadcasting .....	4833	124.5	125.1	123.6	122.8	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	916.2	922.4	924.7	927.4	-	728.4	734.6	732.7	734.3	-
Electric services .....	491	449.4	452.0	453.6	454.3	-	347.6	349.5	347.2	347.4	-
Gas production and distribution .....	492	166.2	167.0	165.1	165.2	-	130.4	131.1	130.8	131.0	-
Combination utility services .....	493	205.2	206.4	203.9	204.3	-	169.2	171.1	168.0	167.6	-
Sanitary services .....	495	69.2	70.3	74.8	75.9	-	59.8	61.0	64.8	66.0	-
<b>Wholesale trade .....</b>		<b>5,721</b>	<b>5,742</b>	<b>5,725</b>	<b>5,749</b>	<b>5,776</b>	<b>4,591</b>	<b>4,606</b>	<b>4,575</b>	<b>4,597</b>	<b>4,619</b>
Durable goods .....	50	3,382	3,389	3,380	3,390	3,407	2,693	2,696	2,672	2,682	-
Motor vehicles and automotive equipment .....	501	429.6	430.5	431.1	432.2	-	343.8	344.1	345.8	346.1	-
Automobiles and other motor vehicles .....	5012	110.5	110.1	111.0	111.4	-	-	-	-	-	-
Automotive parts and supplies .....	5013	288.2	288.9	289.3	289.5	-	-	-	-	-	-

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 <sup>1</sup>				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>
<b>Wholesale trade—Continued</b>											
Durable goods—Continued											
Furniture and home furnishings .....	502	130.6	130.4	135.7	136.5		104.9	105.2	109.1	109.1	
Furniture .....	5021	57.6	57.5	60.0	59.9		-	-	-	-	
Home furnishings .....	5023	73.0	72.9	75.7	76.6		-	-	-	-	
Lumber and construction materials .....	503	221.3	224.6	224.3	225.2		181.9	184.5	184.0	185.5	
Lumber, plywood, and millwork .....	5031	98.8	100.5	102.3	102.2		-	-	-	-	
Construction materials, nec .....	5039	122.5	124.1	122.0	123.0		-	-	-	-	
Sporting goods, toys, and hobby goods .....	504	80.7	81.2	79.2	79.3		66.4	67.1	65.2	65.5	
Metals and minerals, except petroleum .....	505	134.4	133.4	131.4	131.5		106.0	105.0	102.8	102.8	
Electrical goods .....	506	493.0	491.8	488.3	489.4		378.9	376.9	371.7	373.8	
Electrical apparatus and equipment .....	5063	272.6	272.1	268.7	268.6		-	-	-	-	
Electrical appliances, TV and radios .....	5064	70.7	70.4	72.8	73.5		-	-	-	-	
Electronic parts and equipment .....	5065	149.7	149.3	146.8	147.3		-	-	-	-	
Hardware, plumbing, and heating equipment .....	507	254.1	256.3	259.9	261.0		203.4	205.1	208.6	209.8	
Hardware .....	5072	86.5	87.0	90.1	90.3		-	-	-	-	
Plumbing and hydronic heating supplies .....	5074	105.6	106.2	108.2	108.8		-	-	-	-	
Machinery, equipment, and supplies .....	508	1,447.1	1,448.8	1,438.7	1,443.1		1,154.2	1,153.7	1,132.7	1,135.7	
Commercial machines and equipment .....	5081	527.3	528.8	532.5	532.7		-	-	-	-	
Construction and mining machinery .....	5082	80.3	80.9	80.1	80.9		-	-	-	-	
Farm machinery and equipment .....	5083	118.8	119.9	116.7	119.6		-	-	-	-	
Industrial machinery and equipment .....	5084	310.7	307.9	294.1	294.5		-	-	-	-	
Industrial supplies .....	5085	128.9	129.5	128.9	128.8		-	-	-	-	
Professional equipment and supplies .....	5086	174.7	174.6	174.2	173.8		-	-	-	-	
Miscellaneous durable goods .....	509	191.3	191.7	191.7	191.9		153.5	154.4	152.3	153.2	
Scrap and waste materials .....	5093	87.9	87.9	87.5	87.4		-	-	-	-	
Nondurable goods .....	51	2,339	2,353	2,345	2,359	2,369	1,898	1,910	1,903	1,915	
Paper and paper products .....	511	190.1	189.7	191.4	192.0	-	154.6	154.2	155.8	156.3	
Drugs, proprietaries, and sundries .....	512	167.2	168.0	172.9	173.3		139.0	139.3	143.1	143.9	
Apparel, piece goods, and notions .....	513	188.6	188.7	191.9	191.8		140.2	139.8	143.8	143.6	
Groceries and related products .....	514	750.1	759.4	753.3	755.0		635.3	645.1	636.6	637.2	
Groceries, general line .....	5141	241.3	241.7	246.9	247.1		-	-	-	-	
Meats and meat products .....	5147	63.3	63.8	63.6	64.0		-	-	-	-	
Fresh fruits and vegetables .....	5148	94.6	100.3	86.4	87.8		-	-	-	-	
Chemicals and allied products .....	516	129.2	129.5	130.9	131.8		93.5	93.5	95.4	96.2	
Petroleum and petroleum products .....	517	199.6	200.6	192.8	193.5		154.4	155.0	149.8	150.7	
Petroleum bulk stations and terminals .....	5171	82.4	82.9	77.9	78.1		-	-	-	-	
Petroleum products, nec .....	5172	117.2	117.7	114.9	115.4		-	-	-	-	
Beer, wine, and distilled beverages .....	518	148.3	149.7	150.4	151.9		122.2	123.4	123.6	125.1	
Beer and ale .....	5181	92.4	93.8	94.4	95.5		-	-	-	-	
Wines and distilled beverages .....	5182	55.9	55.9	56.0	56.4		-	-	-	-	
Miscellaneous nondurable goods .....	519	437.6	440.5	434.9	442.9		354.3	356.8	352.0	359.0	
Farm supplies .....	5191	152.7	153.8	143.6	150.6		-	-	-	-	
<b>Retail trade .....</b>		<b>17,556</b>	<b>17,799</b>	<b>17,737</b>	<b>18,009</b>	<b>18,223</b>	<b>15,611</b>	<b>15,848</b>	<b>15,745</b>	<b>16,000</b>	<b>16,192</b>
Building materials and garden supplies .....	52	704.1	722.7	695.2	722.1		593.4	610.3	574.6	599.9	
Lumber and other building materials .....	521	370.2	380.2	375.4	383.6		314.6	323.8	316.2	324.3	
Hardware stores .....	525	156.6	159.9	155.8	158.3		132.0	134.9	129.4	131.4	
General merchandise stores .....	53	2,267.6	2,286.7	2,278.5	2,296.4	2,315.2	2,131.1	2,151.6	2,139.0	2,156.5	
Department stores .....	531	1,895.4	1,908.4	1,902.9	1,915.7	-	1,800.9	1,815.3	1,804.7	1,816.7	
Variety stores .....	533	233.9	238.1	237.1	240.6		211.4	215.5	214.9	218.6	
Misc. general merchandise stores .....	539	138.3	140.2	138.5	140.1		118.8	120.8	119.4	121.2	
Food stores .....	54	2,824.1	2,846.4	2,906.0	2,921.5	2,941.5	2,607.8	2,630.1	2,678.9	2,690.6	
Grocery stores .....	541	2,484.3	2,502.1	2,554.9	2,560.9	-	2,306.9	2,324.5	2,365.2	2,368.9	
Meat markets and freezer provisioners .....	542	58.0	58.7	58.7	59.6		-	-	-	-	
Dairy products stores .....	545	32.7	32.1	34.5	35.0		-	-	-	-	
Retail bakeries .....	546	158.1	159.4	161.3	164.2		142.5	144.4	147.1	149.3	
Automotive dealers and service stations .....	55	1,922.3	1,939.7	1,958.8	1,972.8	1,988.2	1,607.2	1,624.0	1,641.5	1,653.6	
New and used car dealers .....	551,2	938.4	940.8	959.2	961.9	-	780.8	782.3	797.5	799.5	
Auto and home supply stores .....	553	303.8	308.3	305.4	310.3		243.9	248.3	245.6	250.3	
Gasoline service stations .....	554	587.9	594.2	601.1	603.3		508.0	515.1	524.0	525.6	

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Retail trade—Continued</b>											
Apparel and accessory stores .....	56	1,047.4	1,047.6	1,081.1	1,093.2		882.9	883.0	912.3	922.2	
Men's and boys' clothing and furnishings .....	561	106.8	106.7	106.4	106.6		88.7	88.6	87.0	86.5	
Women's ready-to-wear stores .....	562	381.7	383.2	386.8	389.4		324.7	326.2	329.3	330.6	
Family clothing stores .....	565	227.5	229.6	238.6	239.5		196.6	198.6	205.1	206.7	
Shoe stores .....	566	204.6	201.0	204.5	214.0		165.0	161.4	165.1	173.9	
Furniture and home furnishings stores .....	57	758.6	762.7	785.0	787.9		630.1	633.6	650.5	653.3	
Furniture and home furnishings stores .....	571	420.8	424.3	441.8	443.8		346.2	349.2	362.9	364.9	
Furniture stores .....	5712	264.9	266.6	279.8	280.0		-	-	-	-	
Household appliance stores .....	572	87.4	87.0	87.5	87.0		74.4	74.5	74.7	74.4	
Radio, television, and music stores .....	573	250.4	251.4	255.7	257.1		209.5	209.9	212.9	214.0	
Radio and television stores .....	5732	184.6	185.7	190.2	189.8		-	-	-	-	
Music stores .....	5733	65.8	65.7	65.5	67.3		-	-	-	-	
Eating and drinking places .....	58	5,836.1	5,971.2	5,789.3	5,959.7	6,088.7	5,300.3	5,432.0	5,263.0	5,429.7	
Miscellaneous retail .....	59	2,196.0	2,221.9	2,243.1	2,255.3		1,858.6	1,883.7	1,885.1	1,894.0	
Drug stores and proprietary stores .....	591	555.6	557.8	582.5	580.1		474.5	476.4	493.7	492.1	
Liquor stores .....	592	124.3	124.6	124.3	125.6		-	-	-	-	
Miscellaneous shopping goods stores .....	594	716.2	718.9	729.6	732.9		598.1	601.1	609.7	613.7	
Sporting goods and bicycle shops .....	5941	121.8	121.7	127.4	124.7		-	-	-	-	
Book stores .....	5942	74.1	72.0	78.5	78.2		-	-	-	-	
Stationery stores .....	5943	74.6	74.0	76.3	76.0		-	-	-	-	
Jewelry stores .....	5944	141.6	142.4	141.0	142.8		-	-	-	-	
Gift, novelty, and souvenir shops .....	5947	136.0	138.9	134.1	138.3		-	-	-	-	
Sewing, needlework, and piece goods .....	5949	63.8	63.6	63.5	63.7		-	-	-	-	
Nonstore retailers .....	596	257.5	257.9	254.9	255.5		232.2	232.6	229.5	229.7	
Mail order houses .....	5961	119.4	118.3	118.6	118.7		-	-	-	-	
Merchandising machine operators .....	5962	78.7	78.9	80.3	81.3		-	-	-	-	
Fuel and ice dealers .....	598	105.8	104.8	115.1	113.0		88.6	87.7	95.8	93.6	
Retail stores, nec .....	599	357.8	378.8	355.4	365.6		295.7	315.7	289.1	297.2	
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		<b>6,201</b>	<b>6,257</b>	<b>6,478</b>	<b>6,532</b>	<b>6,576</b>	<b>4,574</b>	<b>4,622</b>	<b>4,775</b>	<b>4,810</b>	<b>4,847</b>
Finance .....		3,104	3,125	3,246	3,262	3,272					
Banking .....	60	1,724.3	1,731.5	1,731.3	1,734.0		1,255.2	1,260.5	1,248.4	1,249.3	
Commercial and stock savings banks .....	602	1,556.9	1,562.4	1,555.3	1,557.1		1,128.4	1,132.5	1,116.6	1,117.0	
State banks, Federal Reserve .....	6022	334.4	336.7	341.7	342.9		-	-	-	-	
State banks, not Federal Reserve .....	6023,4	371.5	373.1	373.1	373.5		-	-	-	-	
Mutual savings banks .....	603	81.3	82.0	86.2	86.4		-	-	-	-	
Credit agencies other than banks .....	61	811.9	820.3	683.5	890.3		612.5	619.2	662.6	667.5	
Savings and loan associations .....	612	369.3	372.9	395.5	397.8		281.2	284.3	301.4	303.5	
Federal savings and loan associations .....	6122	204.9	207.1	219.2	220.8		-	-	-	-	
State associations, insured .....	6123	156.8	158.2	168.1	168.6		-	-	-	-	
Personal credit institutions .....	614	224.4	224.6	232.3	233.1		173.5	173.7	178.8	179.5	
Business credit institutions .....	615	50.7	51.0	52.6	53.5		-	-	-	-	
Mortgage bankers and brokers .....	616	142.8	147.2	177.7	180.7		-	-	-	-	
Security, commodity brokers, and services .....	62	381.0	384.9	425.3	430.2						
Security brokers and dealers .....	621	302.5	305.3	339.4	343.4						
Holding and other investment offices .....	67	186.6	187.8	206.2	207.6						
Insurance .....		1,917	1,928	2,020	2,028	2,034					
Insurance carriers .....	63	1,349.4	1,355.7	1,401.6	1,404.3		916.7	922.5	952.8	951.4	
Life insurance .....	631	577.4	577.4	581.2	581.5		353.2	354.5	363.0	359.7	
Medical service and health insurance .....	632	184.6	185.0	193.2	193.4		149.7	149.9	156.0	155.7	
Fire, marine, and casualty insurance .....	633	493.5	497.4	524.1	526.4		341.5	344.3	353.9	356.4	
Title insurance .....	636	55.9	57.4	61.5	61.3		-	-	-	-	
Insurance agents, brokers, and service .....	64	567.8	572.4	618.8	623.3						

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 <sup>1</sup>				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>
<b>Finance, insurance, and real estate—Continued</b>											
Real estate, and combined real estate, insurance, etc ....		1,180	1,204	1,212	1,242	1,270					
Real estate .....	65	1,166.7	1,190.6	1,199.4	1,229.7						
Real estate operators and lessors .....	651	514.9	519.4	509.4	519.1						
Real estate agents and managers .....	653	471.8	479.9	504.9	512.4						
Subdividers and developers .....	655	151.9	162.1	150.7	162.7						
Combined real estate, insurance, etc .....	66	12.9	12.9	12.2	12.6						
<b>Services .....</b>		<b>22,901</b>	<b>23,072</b>	<b>23,723</b>	<b>23,950</b>	<b>24,118</b>	<b>20,136</b>	<b>20,273</b>	<b>20,767</b>	<b>20,991</b>	<b>21,137</b>
Hotels and other lodging places .....	70	1,354.0	1,408.1	1,372.3	1,406.6						
Hotels, motels, and tourist courts .....	701	1,318.3	1,365.3	1,339.9	1,372.3		1,180.3	1,225.7	1,191.3	1,223.1	
Personal services .....	72	1,120.9	1,105.1	1,160.0	1,167.7						
Laundry, cleaning, and garment services .....	721	381.1	387.2	395.3	401.0		340.0	344.9	352.3	356.5	
Photographic studios, portrait .....	722	54.3	55.0	58.8	57.8						
Beauty shops .....	723	345.0	347.4	350.9	351.5		312.2	314.7	316.1	316.9	
Funeral service and crematories .....	726	76.6	77.1	78.4	79.3						
Business services .....	73	4,690.3	4,729.7	4,963.9	4,998.9	5,054.4	4,041.0	4,067.6	4,247.5	4,284.2	
Advertising .....	731	202.0	201.6	200.6	199.2		149.7	149.4	148.5	147.6	
Advertising agencies .....	7311	150.1	149.5	148.5	146.5						
Credit reporting and collection .....	732	95.3	97.4	103.5	105.0						
Mailing, reproduction, and stenographic .....	733	193.0	192.5	202.2	204.5						
Services to buildings .....	734	675.6	683.9	680.6	685.7		606.9	615.6	614.4	621.7	
Personnel supply services .....	736	977.1	992.6	1,110.4	1,131.3						
Employment agencies .....	7361	147.9	149.4	176.5	178.8						
Temporary help supply services .....	7362	774.8	789.2	879.6	897.1						
Computer and data processing services .....	737	581.0	583.3	622.2	627.3		470.8	470.5	489.6	493.4	
Computer programming and software .....	7372	210.9	213.2	228.6	231.8						
Data processing services .....	7374	273.3	273.1	295.2	295.4						
Miscellaneous business services .....	739	1,957.7	1,969.9	2,035.4	2,036.9						
Research development laboratories, nec .....	7391	187.1	188.4	196.2	196.6						
Management and public relations .....	7392	547.2	547.2	568.1	566.1						
Detective and protective services .....	7393	432.2	434.7	449.7	451.6						
Equipment rental and leasing .....	7394	204.9	208.6	210.1	211.5						
Photofinishing laboratories .....	7395	77.2	78.6	76.6	77.1						
Auto repair, services, and garages .....	75	752.8	758.7	783.6	779.1		628.9	635.2	653.1	648.9	
Automotive rentals, without drivers .....	751	154.2	159.8	171.7	169.8						
Automotive repair shops .....	753	453.7	454.2	460.7	459.8		376.3	377.8	379.3	378.6	
Miscellaneous repair services .....	76	319.0	320.2	319.4	316.4		265.7	267.2	265.3	263.7	
Electrical repair shops .....	762	102.2	103.6	106.9	104.4						
Motion pictures .....	78	224.9	220.7	229.2	231.5		190.5	184.8	192.4	195.0	
Motion picture production and services .....	781	105.1	98.9	116.5	115.6		86.6	79.2	93.7	92.9	
Motion picture theaters .....	783	107.6	109.7	100.3	103.0						
Amusement and recreation services .....	79	861.0	941.1	883.4	960.3		762.9	833.7	759.8	835.5	
Health services .....	80	6,468.0	6,500.2	6,762.1	6,786.2	6,814.4	5,745.6	5,775.2	6,009.4	6,031.9	
Offices of physicians .....	801	979.5	985.4	1,045.1	1,049.9		809.6	815.5	860.0	864.1	
Offices of dentists .....	802	453.8	456.8	473.8	475.2		399.5	402.5	418.3	418.5	
Nursing and personal care facilities .....	805	1,228.8	1,238.8	1,284.2	1,285.7		1,109.4	1,118.3	1,159.8	1,160.8	
Skilled nursing care facilities .....	8051	822.2	828.5	857.2	857.2						
Nursing and personal care, nec .....	8059	406.6	410.3	427.0	428.5						
Hospitals .....	806	3,015.1	3,018.3	3,101.1	3,109.4		2,747.2	2,749.1	2,828.2	2,837.7	
General medical and surgical hospitals .....	8062	2,823.2	2,825.5	2,903.4	2,911.3						
Psychiatric hospitals .....	8063	64.8	65.1	66.4	66.5						
Specialty hospitals, excluding psychiatric .....	8069	127.1	127.7	131.3	131.6						
Medical and dental laboratories .....	807	124.9	126.3	136.8	138.1						
Outpatient care facilities .....	808	242.1	245.2	263.3	265.9						

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Services—Continued</b>											
Legal services .....	81	727.7	733.6	778.7	779.6		615.8	619.9	654.6	655.4	
Educational services .....	82	1,513.4	1,457.1	1,531.3	1,527.6						
Elementary and secondary schools .....	821	374.0	374.3	375.1	374.2						
Colleges and universities .....	822	989.0	931.3	1,001.4	999.5						
Correspondence and vocational schools .....	824	71.8	71.6	73.6	72.5						
Social services .....	83	1,455.8	1,461.7	1,526.8	1,536.1						
Individual and family services .....	832	280.4	280.9	306.1	307.7						
Job training and related services .....	833	254.6	256.0	260.7	261.9						
Residential care .....	836	314.8	317.3	330.2	332.4						
Museums, botanical and zoological gardens .....	84	45.2	46.9	47.7	49.3						
Membership organizations .....	86	1,532.2	1,539.4	1,530.4	1,529.7						
Business associations .....	861	90.5	91.6	91.4	91.6						
Labor organizations .....	863	134.8	135.4	133.1	131.3						
Civic and social associations .....	864	344.9	347.5	347.0	347.5						
Miscellaneous services .....	89	1,266.9	1,252.9	1,299.6	1,304.9		1,039.5	1,023.9	1,061.0	1,064.2	
Engineering and architectural services .....	891	667.7	675.5	679.1	685.1		564.1	570.4	572.3	576.8	
Noncommercial research organizations .....	892	125.1	125.5	129.0	129.3		-	-	-	-	
Accounting, auditing, and bookkeeping .....	893	448.2	425.9	465.1	464.1		356.2	334.1	366.0	364.9	
<b>Government</b> .....		16,944	16,981	17,310	17,352	17,367					
Federal Government <sup>4</sup> .....		2,908	2,911	2,916	2,926	2,933					
Executive, by agency <sup>4</sup> .....		2,851.9	2,855.7	2,859.9							
Department of Defense .....		986.4	986.9	973.3							
Postal Service <sup>5</sup> .....		785.6	788.4	811.8							
Other executive agencies .....		1,079.9	1,080.4	1,074.8							
Legislative .....		37.3	37.3	37.1							
Judicial .....		18.3	18.4	19.2							
Federal government, by industry:											
Manufacturing activities .....		127.0	126.0	123.3	124.7						
Shipbuilding and repairing .....	3731	76.4	75.8	74.5	75.9						
Transportation and public utilities, except Postal Service .....		39.1	39.1	39.9	40.2						
Services .....		407.3	409.7	405.2	408.8						
Hospitals .....	806	247.8	247.4	247.2	249.2						
State government .....		3,980	3,938	4,036	4,047	4,014					
Hospitals .....	806	440.2	439.4	446.7	448.0	-					
Education .....	82	1,669.8	1,615.7	1,702.2	1,702.7						
General administration, including executive, legislative, and judicial functions .....		1,314.7	1,321.3	1,326.4	1,332.7						
Local government .....		10,056	10,132	10,358	10,379	10,420					
Transportation and public utilities .....		488.6	489.9	488.2	489.8	-					
Hospitals .....	806	599.7	601.0	616.0	615.5						
Education .....	82	5,738.7	5,768.3	5,955.5	5,948.5						
General administration, including executive, legislative, and judicial functions .....		2,922.2	2,957.8	2,980.3	3,001.0						

<sup>1</sup> 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.

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

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

<sup>4</sup> Prepared by the Office of Personnel Management. Data relate to

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

<sup>5</sup> Includes rural mail carriers.

- Data not available.

<sup>p</sup> = preliminary.

NOTE: Data in this table have been revised to reflect March 1986 benchmarks and differ from data previously published. See the article in this issue for additional information.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	Feb. 1986	Mar. 1986	Jan. 1987	Feb. 1987	Mar. 1987
<b>Total</b> .....	44,704	45,000	46,216	46,415	46,716
<b>Total private</b> .....	36,138	36,396	37,523	37,578	37,807
<b>Goods-producing</b> .....	6,742	6,755	6,769	6,784	6,803
<b>Mining</b> .....	116	115	97	97	97
<b>Construction</b> .....	471	482	510	510	515
<b>Manufacturing</b> .....	6,155	6,158	6,162	6,177	6,191
<b>Durable goods</b> .....	2,975	2,979	2,966	2,971	2,975
Lumber and wood products .....	105	107	112	113	115
Furniture and fixtures .....	154	155	157	157	158
Stone, clay, and glass products .....	111	111	112	112	112
Primary metal industries .....	101	101	99	100	100
Fabricated metal products .....	318	318	319	319	320
Machinery, except electrical .....	457	458	441	443	444
Electrical and electronic equipment .....	885	883	878	873	869
Transportation equipment .....	375	375	387	392	391
Instruments and related products .....	306	307	300	299	299
Miscellaneous manufacturing .....	163	165	161	164	167
<b>Nondurable goods</b> .....	3,180	3,179	3,196	3,206	3,216
Food and kindred products .....	477	476	489	486	488
Tobacco manufactures .....	21	20	20	19	18
Textile mill products .....	338	339	347	348	349
Apparel and other textile products .....	895	892	876	882	882
Paper and allied products .....	160	161	162	162	164
Printing and publishing .....	611	612	631	634	636
Chemicals and allied products .....	284	285	287	289	290
Petroleum and coal products .....	27	27	24	24	24
Rubber and misc. plastics products .....	275	275	276	278	279
Leather and leather products .....	92	91	86	86	86
<b>Service-producing</b> .....	37,962	38,245	39,447	39,631	39,913
<b>Transportation and public utilities</b> .....	1,472	1,474	1,504	1,505	1,511
<b>Wholesale trade</b> .....	1,646	1,650	1,672	1,680	1,685
<b>Retail trade</b> .....	8,945	9,037	9,406	9,299	9,334
<b>Finance, insurance, and real estate</b> .....	3,771	3,800	4,016	4,029	4,052
<b>Services</b> .....	13,562	13,680	14,156	14,281	14,422
<b>Government</b> .....	8,566	8,604	8,693	8,837	8,909
<b>Federal</b> .....	1,026	1,031	1,027	1,030	1,038
<b>State</b> .....	1,877	1,885	1,874	1,925	1,945
<b>Local</b> .....	5,663	5,688	5,792	5,882	5,926

NOTE: Data in this table have been revised to reflect March 1986 benchmarks and differ from data previously published. See the article in this issue for additional information.

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>P</sup>	May <sup>P</sup>
<b>Total</b> .....	99,389	99,323	99,601	99,772	100,039	100,209	100,415	100,567	100,919	101,150	101,329	101,609	101,732
<b>Total private</b> .....	82,730	82,670	82,991	83,125	83,241	83,337	83,515	83,643	83,983	84,215	84,352	84,570	84,696
<b>Goods-producing</b> .....	24,708	24,628	24,628	24,639	24,620	24,611	24,630	24,630	24,708	24,743	24,749	24,757	24,747
<b>Mining</b> .....	786	769	764	748	739	735	730	724	718	719	722	730	735
Oil and gas extraction .....	457	444	439	428	419	416	412	406	405	406	408	416	420
<b>Construction</b> .....	4,910	4,900	4,924	4,946	4,948	4,942	4,946	4,936	5,034	5,038	5,032	5,016	4,996
General building contractors .....	1,302	1,293	1,290	1,295	1,291	1,289	1,289	1,277	1,311	1,309	1,291	1,271	1,258
<b>Manufacturing</b> .....	19,012	18,959	18,940	18,945	18,933	18,934	18,954	18,970	18,956	18,986	18,995	19,011	19,016
<b>Durable goods</b> .....	11,277	11,218	11,199	11,206	11,181	11,169	11,174	11,175	11,157	11,179	11,176	11,174	11,174
Lumber and wood products .....	706	707	704	712	716	718	723	728	731	733	734	736	740
Furniture and fixtures .....	496	497	497	499	499	499	499	499	500	501	502	504	509
Stone, clay, and glass products .....	589	587	584	584	584	581	582	584	586	588	586	587	586
Primary metal industries .....	765	747	745	735	732	733	733	733	726	733	739	744	739
Blast furnaces and basic steel products .....	282	280	278	265	260	262	260	259	254	261	266	272	270
Fabricated metal products .....	1,438	1,432	1,423	1,423	1,424	1,421	1,419	1,422	1,422	1,419	1,419	1,422	1,423
Machinery, except electrical .....	2,074	2,066	2,056	2,051	2,031	2,022	2,015	2,011	2,007	2,018	2,015	2,024	2,025
Electrical and electronic equipment .....	2,126	2,099	2,124	2,123	2,118	2,120	2,119	2,118	2,111	2,106	2,099	2,093	2,085
Transportation equipment .....	2,009	2,013	2,004	2,016	2,015	2,013	2,023	2,018	2,014	2,022	2,022	2,006	2,008
Motor vehicles and equipment .....	863	865	848	861	857	850	858	853	851	859	854	841	839
Instruments and related products .....	710	707	703	703	703	702	700	698	697	695	694	694	694
Miscellaneous manufacturing .....	364	363	359	360	359	360	361	364	363	364	366	364	365
<b>Nondurable goods</b> .....	7,735	7,741	7,741	7,739	7,752	7,765	7,780	7,795	7,799	7,807	7,819	7,837	7,842
Food and kindred products .....	1,615	1,820	1,619	1,616	1,619	1,621	1,627	1,631	1,628	1,630	1,635	1,641	1,635
Tobacco manufactures .....	60	59	59	58	58	58	59	58	58	58	57	56	57
Textile mill products .....	702	704	706	707	707	709	714	715	718	722	725	724	726
Apparel and other textile products .....	1,105	1,101	1,103	1,102	1,102	1,104	1,101	1,110	1,106	1,101	1,103	1,106	1,109
Paper and allied products .....	673	674	673	671	675	677	678	679	678	679	678	677	676
Printing and publishing .....	1,451	1,455	1,459	1,462	1,465	1,469	1,472	1,474	1,479	1,483	1,485	1,492	1,495
Chemicals and allied products .....	1,020	1,023	1,022	1,021	1,021	1,020	1,020	1,017	1,018	1,018	1,017	1,018	1,022
Petroleum and coal products .....	171	169	168	168	167	186	165	163	164	164	164	164	164
Rubber and misc. plastics products .....	786	787	783	786	791	794	797	800	803	805	807	810	809
Leather and leather products .....	152	149	149	148	147	147	147	148	147	147	148	149	149
<b>Service-producing</b> .....	74,681	74,695	74,973	75,133	75,419	75,598	75,785	75,937	76,211	76,407	76,580	76,852	76,985
<b>Transportation and public utilities</b> .....	5,247	5,142	5,237	5,202	5,255	5,251	5,278	5,286	5,304	5,315	5,333	5,345	5,344
Transportation .....	3,024	3,024	3,029	3,035	3,050	3,053	3,071	3,078	3,089	3,097	3,112	3,123	3,122
Communication and public utilities .....	2,223	2,118	2,208	2,167	2,205	2,198	2,207	2,208	2,215	2,218	2,221	2,222	2,222
<b>Wholesale trade</b> .....	5,749	5,712	5,735	5,736	5,736	5,731	5,728	5,725	5,741	5,757	5,766	5,773	5,783
Durable goods .....	3,369	3,357	3,385	3,382	3,383	3,379	3,380	3,383	3,386	3,391	3,397	3,397	3,407
Nondurable goods .....	2,360	2,355	2,350	2,354	2,353	2,352	2,348	2,342	2,355	2,366	2,369	2,376	2,378
<b>Retail trade</b> .....	17,798	17,821	17,866	17,913	17,939	17,980	18,009	18,007	18,080	18,140	18,136	18,209	18,223
General merchandise stores .....	2,359	2,361	2,367	2,371	2,374	2,385	2,379	2,383	2,358	2,373	2,380	2,385	2,387
Food stores .....	2,862	2,875	2,882	2,889	2,892	2,901	2,906	2,918	2,929	2,940	2,944	2,954	2,956
Automotive dealers and service stations .....	1,935	1,937	1,943	1,949	1,958	1,960	1,963	1,970	1,978	1,979	1,979	1,981	1,982
Eating and drinking places .....	5,859	5,870	5,887	5,904	5,911	5,919	5,927	5,938	5,946	5,956	5,964	5,966	5,975
<b>Finance, insurance, and real estate</b> .....	6,257	6,287	6,323	6,351	6,374	6,395	6,418	6,451	6,480	6,501	6,526	6,580	6,577
Finance .....	3,131	3,149	3,167	3,183	3,193	3,204	3,212	3,227	3,235	3,243	3,256	3,275	3,279
Insurance .....	1,929	1,939	1,952	1,981	1,971	1,980	1,990	1,999	2,012	2,016	2,022	2,032	2,036
Real estate .....	1,197	1,199	1,204	1,207	1,210	1,211	1,216	1,225	1,233	1,242	1,248	1,253	1,262
<b>Services</b> .....	22,971	23,080	23,202	23,284	23,317	23,369	23,452	23,544	23,670	23,759	23,842	23,926	24,022
Business services .....	4,744	4,770	4,798	4,815	4,835	4,861	4,877	4,912	4,950	4,984	5,020	5,044	5,070
Health services .....	6,510	6,533	6,563	6,594	6,615	6,644	6,661	6,691	6,721	6,748	6,773	6,800	6,821
<b>Government</b> .....	16,659	16,653	16,610	16,647	16,798	16,872	16,900	16,924	16,936	16,935	16,977	17,039	17,036
Federal .....	2,899	2,878	2,872	2,882	2,902	2,897	2,900	2,904	2,912	2,918	2,922	2,929	2,921
State .....	3,883	3,882	3,881	3,881	3,890	3,907	3,915	3,927	3,929	3,927	3,930	3,944	3,959
Local .....	9,877	9,893	9,857	9,884	10,006	10,068	10,085	10,093	10,095	10,092	10,125	10,166	10,156

<sup>P</sup> = preliminary.

NOTE: Data in this table have been revised to reflect March 1986 benchmarks and

updated seasonal adjustment factors and differ from data previously published. See the article in this issue for additional information.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1986										1987		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>Total</b> .....	45,060	45,220	45,392	45,453	45,661	45,801	45,960	46,111	46,229	46,358	46,517	46,654	46,766
<b>Total private</b> .....	36,722	36,863	37,006	37,055	37,258	37,382	37,436	37,547	37,653	37,767	37,909	38,057	38,133
<b>Goods-producing</b> .....	6,799	6,797	6,796	6,783	6,797	6,796	6,800	6,813	6,826	6,842	6,838	6,843	6,846
<b>Mining</b> .....	114	111	108	107	105	103	101	100	99	98	97	97	96
<b>Construction</b> .....	492	497	501	502	507	508	511	513	516	519	522	524	526
<b>Manufacturing</b> .....	6,193	6,189	6,187	6,174	6,185	6,185	6,188	6,200	6,211	6,225	6,219	6,222	6,224
<b>Durable goods</b> .....	2,983	2,982	2,981	2,968	2,975	2,979	2,979	2,981	2,983	2,985	2,979	2,983	2,978
Lumber and wood products .....	108	109	109	110	111	112	112	113	113	115	115	117	117
Furniture and fixtures .....	154	154	155	155	155	155	155	155	155	155	156	156	157
Stone, clay, and glass products .....	112	113	113	114	113	113	113	112	112	113	114	113	113
Primary metal industries .....	101	100	100	99	99	99	100	100	100	99	99	100	100
Fabricated metal products .....	319	319	319	320	319	320	320	320	321	321	320	320	320
Machinery, except electrical .....	455	453	451	449	448	445	443	443	442	441	440	441	441
Electrical and electronic equipment .....	885	884	885	872	885	886	885	886	885	884	880	876	870
Transportation equipment .....	376	377	377	378	378	381	382	384	387	389	388	392	392
Instruments and related products .....	306	306	305	304	303	303	303	302	301	301	300	300	299
Miscellaneous manufacturing .....	167	167	167	167	164	165	166	166	167	167	167	168	169
<b>Nondurable goods</b> .....	3,210	3,207	3,206	3,206	3,210	3,206	3,209	3,219	3,228	3,240	3,240	3,239	3,246
Food and kindred products .....	505	504	505	507	506	504	505	508	513	514	514	514	517
Tobacco manufactures .....	21	21	20	20	20	19	20	19	20	19	19	19	19
Textile mill products .....	341	340	342	342	345	345	344	345	347	349	349	350	352
Apparel and other textile products .....	888	890	888	884	887	883	882	883	881	889	883	878	878
Paper and allied products .....	163	163	163	163	163	163	164	164	165	165	165	165	165
Printing and publishing .....	612	613	614	617	620	621	623	626	628	629	632	634	636
Chemicals and allied products .....	286	286	286	287	287	287	287	288	288	287	289	290	290
Petroleum and coal products .....	27	27	26	26	26	26	25	25	25	25	24	24	24
Rubber and misc. plastics products .....	275	272	272	272	269	271	272	275	275	276	278	278	278
Leather and leather products .....	92	91	90	88	87	87	87	86	86	87	87	87	87
<b>Service-producing</b> .....	38,261	38,423	38,596	38,670	38,864	39,005	39,160	39,298	39,403	39,516	39,679	39,811	39,920
<b>Transportation and public utilities</b> .....	1,481	1,480	1,488	1,441	1,481	1,465	1,486	1,487	1,496	1,501	1,507	1,510	1,517
<b>Wholesale trade</b> .....	1,660	1,668	1,676	1,665	1,672	1,675	1,675	1,673	1,673	1,675	1,682	1,691	1,695
<b>Retail trade</b> .....	9,296	9,316	9,350	9,373	9,403	9,452	9,456	9,484	9,501	9,504	9,547	9,607	9,603
<b>Finance, insurance, and real estate</b> .....	3,812	3,846	3,873	3,898	3,922	3,944	3,961	3,978	3,996	4,016	4,036	4,053	4,064
<b>Services</b> .....	13,674	13,756	13,823	13,895	13,983	14,050	14,058	14,112	14,161	14,229	14,299	14,353	14,408
<b>Government</b> .....	8,338	8,357	8,386	8,398	8,403	8,419	8,524	8,564	8,576	8,591	8,608	8,597	8,633
Federal .....	1,035	1,037	1,032	1,023	1,019	1,024	1,033	1,032	1,033	1,035	1,037	1,038	1,041
State .....	1,826	1,834	1,840	1,845	1,849	1,850	1,852	1,861	1,865	1,869	1,878	1,871	1,883
Local .....	5,477	5,486	5,514	5,530	5,535	5,545	5,639	5,671	5,678	5,687	5,693	5,688	5,709

NOTE: Data in this table have been revised to reflect March 1986 benchmarks and updated seasonal adjustment factors and differ from data previously published. See the article in this issue for additional information.

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

**B-6. Production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted**

(In thousands)

Industry	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>P</sup>	May <sup>P</sup>
<b>Total private</b> .....	66,900	66,845	67,123	67,254	67,348	67,411	67,570	67,665	67,939	68,149	68,263	68,429	68,488
<b>Goods-producing</b> .....	17,305	17,234	17,238	17,265	17,252	17,238	17,270	17,283	17,331	17,379	17,380	17,374	17,362
<b>Mining</b> .....	547	534	534	524	518	516	514	510	504	508	511	518	522
<b>Construction</b> .....	3,855	3,842	3,861	3,884	3,883	3,873	3,877	3,867	3,943	3,955	3,944	3,915	3,885
<b>Manufacturing</b> .....	12,903	12,858	12,843	12,857	12,851	12,849	12,879	12,906	12,884	12,916	12,925	12,941	12,955
<b>Durable goods</b> .....	7,454	7,403	7,386	7,399	7,382	7,369	7,385	7,393	7,370	7,398	7,399	7,402	7,412
Lumber and wood products .....	594	595	590	598	601	603	607	611	611	614	615	617	620
Furniture and fixtures .....	397	397	397	398	399	399	398	398	400	400	402	404	408
Stone, clay, and glass products .....	453	452	450	449	450	448	449	451	452	454	453	453	453
Primary metal industries .....	579	562	559	549	546	546	547	547	540	547	553	559	554
Blast furnaces and basic steel products .....	217	215	214	201	195	197	194	193	188	194	199	206	203
Fabricated metal products .....	1,062	1,057	1,048	1,051	1,052	1,050	1,049	1,052	1,051	1,051	1,051	1,053	1,053
Machinery, except electrical .....	1,236	1,231	1,224	1,221	1,203	1,195	1,190	1,187	1,183	1,190	1,190	1,198	1,206
Electrical and electronic equipment .....	1,229	1,204	1,228	1,229	1,226	1,226	1,230	1,234	1,226	1,223	1,218	1,217	1,218
Transportation equipment .....	1,257	1,260	1,248	1,261	1,261	1,261	1,273	1,267	1,265	1,276	1,273	1,259	1,258
Motor vehicles and equipment .....	663	664	649	660	659	652	663	658	659	668	663	650	646
Instruments and related products .....	384	382	380	381	382	380	379	379	377	377	376	376	377
Miscellaneous manufacturing .....	263	263	262	262	262	261	263	267	265	266	268	266	265
<b>Nondurable goods</b> .....	5,449	5,455	5,457	5,458	5,469	5,480	5,494	5,513	5,514	5,518	5,526	5,539	5,543
Food and kindred products .....	1,133	1,138	1,137	1,135	1,138	1,139	1,146	1,149	1,147	1,150	1,154	1,159	1,156
Tobacco manufactures .....	45	45	45	43	44	44	45	44	44	44	44	43	43
Textile mill products .....	607	608	610	612	612	615	619	621	624	627	630	629	631
Apparel and other textile products .....	929	926	929	928	928	929	927	937	931	925	926	931	930
Paper and allied products .....	511	511	510	508	512	514	515	517	515	516	515	514	513
Printing and publishing .....	816	818	821	822	824	827	828	830	833	833	832	833	837
Chemicals and allied products .....	566	568	569	570	569	568	568	566	568	569	570	569	573
Petroleum and coal products .....	107	106	106	106	105	105	105	105	106	106	106	107	107
Rubber and misc. plastics products .....	610	612	608	612	616	618	620	622	623	625	626	630	629
Leather and leather products .....	125	123	122	122	121	121	121	122	123	123	123	124	124
<b>Service-producing</b> .....	49,595	49,611	49,885	49,989	50,096	50,173	50,300	50,382	50,608	50,770	50,883	51,055	51,126
<b>Transportation and public utilities</b> .....	4,334	4,236	4,318	4,290	4,344	4,342	4,368	4,380	4,389	4,401	4,419	4,427	4,427
<b>Wholesale trade</b> .....	4,613	4,579	4,601	4,602	4,598	4,590	4,586	4,583	4,600	4,611	4,617	4,625	4,628
<b>Retail trade</b> .....	15,849	15,869	15,911	15,953	15,977	16,013	16,035	16,030	16,097	16,141	16,132	16,194	16,192
<b>Finance, insurance, and real estate</b> .....	4,624	4,647	4,679	4,699	4,712	4,726	4,743	4,767	4,786	4,806	4,823	4,839	4,847
<b>Services</b> .....	20,175	20,280	20,376	20,445	20,465	20,502	20,568	20,622	20,736	20,811	20,892	20,970	21,032

<sup>1</sup> 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.

<sup>P</sup> = preliminary.

NOTE: Data in this table have been revised to reflect March 1986 benchmarks and updated seasonal adjustment factors and differ from data previously published. See the article in this issue for additional information.

**ESTABLISHMENT DATA  
INDEXES OF DIFFUSION  
SEASONALLY ADJUSTED**

**B-7. Indexes of diffusion: Percent of industries in which employment<sup>1</sup> increased, seasonally adjusted**

Time span	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span	1985.....	55.9	47.0	52.4	47.3	53.2	46.8	53.8	53.8	47.8	53.2	54.3	57.3
	1986.....	53.2	48.1	48.1	53.5	52.4	46.8	52.4	56.2	55.1	53.2	59.7	59.7
	1987.....	53.5	56.8	58.6	<sup>P</sup> 59.7	<sup>P</sup> 55.9							
Over 3-month span	1985.....	51.1	48.4	42.4	46.5	44.3	49.7	47.0	48.6	45.9	47.6	55.1	56.5
	1986.....	49.7	44.9	45.7	48.4	47.6	45.4	48.4	55.1	55.9	58.1	58.6	60.3
	1987.....	58.6	59.5	<sup>P</sup> 61.9	<sup>P</sup> 65.7								
Over 6-month span	1985.....	46.5	46.5	43.2	44.3	44.3	45.1	43.0	44.3	49.2	49.2	47.3	45.9
	1986.....	47.6	47.6	43.0	43.2	45.4	48.4	47.3	53.0	59.2	58.9	57.8	58.9
	1987.....	<sup>P</sup> 61.6	<sup>P</sup> 63.8										
Over 12-month span	1985.....	44.6	44.1	43.8	40.8	41.6	41.6	42.2	42.4	43.8	44.3	44.1	42.4
	1986.....	43.2	44.1	46.2	45.7	47.8	49.5	49.5	51.6	54.9	<sup>P</sup> 51.9	<sup>P</sup> 57.8	
	1987.....												

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

<sup>P</sup> = preliminary.

NOTE: Figures are the percent of industries with employment

rising. (Half of the unchanged components are counted as rising). Data are centered within the spans. Data in this table have been revised to reflect March 1986 benchmarks and updated seasonal adjustment factors and differ from data previously published. See the article in this issue for additional information.

**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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Alabama</b> .....	1,462.6	1,465.8	1,480.3	12.8	11.7	11.6	75.4	75.6	76.4
Birmingham .....	381.3	386.1	389.9	6.4	6.1	5.9	22.9	23.8	24.7
Huntsville .....	116.0	118.9	119.9	.1	.1	.1	4.7	5.0	5.1
Mobile .....	158.2	158.9	158.5	.6	.4	.4	10.6	9.3	8.9
Montgomery .....	120.9	122.7	122.2	.1	.1	.1	9.0	9.5	9.4
Tuscaloosa .....	56.2	57.7	58.6	2.8	2.7	2.7	2.7	2.8	3.0
<b>Alaska</b> .....	218.1	206.1	210.2	8.7	8.4	8.4	11.2	9.2	10.2
<b>Arizona</b> .....	1,339.8	1,378.0	1,376.9	10.7	11.0	10.3	113.7	105.2	105.0
Phoenix .....	880.4	906.5	906.1	.5	.6	.6	79.5	71.0	70.7
Tucson .....	242.9	244.8	244.9	1.6	1.6	1.6	21.7	21.0	21.0
<b>Arkansas</b> .....	811.8	823.7	832.3	4.3	4.0	4.0	35.1	33.1	34.2
Fayetteville-Springdale .....	44.4	46.4	46.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	1.8	1.9
Fort Smith .....	71.4	74.1	74.1	1.0	1.0	1.0	2.9	2.9	2.9
Little Rock-North Little Rock .....	224.0	225.6	226.8	.4	.4	.4	11.2	11.4	11.7
Pine Bluff .....	33.0	31.6	31.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.1	1.6	1.7
<b>California</b> .....	11,189.7	11,498.6	11,541.6	43.5	38.8	38.9	502.0	530.8	542.7
Anaheim-Santa Ana .....	1,029.2	1,072.0	1,078.5	2.4	2.0	2.0	51.8	55.0	56.1
Bakersfield .....	155.4	155.6	156.3	13.9	11.9	12.0	9.8	9.3	9.4
Fresno .....	192.6	201.1	202.2	.7	.7	.7	10.8	11.8	12.1
Los Angeles-Long Beach .....	3,897.8	3,989.4	3,988.2	11.2	10.3	10.3	125.5	130.3	131.9
Modesto .....	95.3	99.2	100.3	.1	.1	.1	6.1	6.4	6.4
Oakland .....	780.8	810.8	814.1	2.5	2.4	2.4	42.6	45.4	46.7
Oxnard-Ventura .....	190.4	198.6	199.9	3.0	2.6	2.5	9.5	11.2	11.4
Riverside-San Bernardino .....	557.6	589.8	591.1	1.3	1.3	1.3	41.6	46.7	46.9
Sacramento .....	511.5	531.9	536.2	.8	.7	.7	28.3	30.0	31.3
Salinas-Seaside-Monterey .....	101.1	103.6	105.1	.5	.5	.5	3.9	4.2	4.3
San Diego .....	814.1	844.5	848.1	.8	.8	.8	49.4	55.4	56.5
San Francisco .....	917.8	929.4	931.5	1.1	1.1	1.1	32.0	32.1	32.8
San Jose .....	766.9	766.8	768.8	.1	.1	.1	30.3	29.1	29.8
Santa Barbara-Santa Maria-Lompoc .....	143.6	145.4	145.9	1.4	1.3	1.4	6.3	6.1	6.2
Santa Rosa-Petaluma .....	116.2	119.1	120.5	.6	.6	.6	7.4	7.3	7.8
Stockton .....	132.5	135.8	137.5	.1	.1	.1	7.5	7.9	8.4
Vallejo-Fairfield-Napa .....	118.6	123.1	125.1	.3	.3	.3	7.4	7.6	8.2
<b>Colorado</b> .....	1,404.6	1,396.7	1,399.3	28.6	24.1	23.6	74.6	69.0	71.1
Boulder-Longmont .....	103.1	104.3	104.0	.3	.3	.3	4.1	3.6	3.7
Denver .....	805.8	799.5	802.1	18.4	16.0	15.8	42.2	38.3	39.1
<b>Connecticut</b> .....	1,594.5	1,625.1	1,642.0	1.6	1.6	1.7	67.6	66.7	70.7
Bridgeport-Milford .....	192.5	194.9	196.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.4	7.7	8.3
Hartford .....	456.5	470.1	473.4	.2	.3	.3	17.4	18.0	19.2
New Britain .....	65.1	65.2	65.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.5	3.6	4.0
New Haven-Meriden .....	242.2	247.4	249.9	.3	.2	.3	11.4	12.1	12.7
Stamford .....	120.6	124.3	125.4	.6	.6	.6	5.0	5.1	5.2
Waterbury .....	84.7	85.6	86.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	3.8	4.1
<b>Delaware</b> .....	297.7	309.2	311.9	.1	.1	.1	18.5	18.0	18.5
Wilmington .....	257.6	269.3	271.7	.2	.2	.2	16.8	16.7	17.3
<b>District of Columbia</b> .....	635.8	644.2	648.1	.1	.1	.1	13.9	13.8	13.8
Washington MSA .....	1,961.1	2,019.9	2,030.1	1.0	.9	.9	118.7	118.3	121.1
<b>Florida</b> .....	4,577.1	4,798.1	4,797.3	9.7	10.0	9.9	334.4	339.0	338.0
Daytona Beach .....	106.5	111.8	110.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.6	8.0	7.9
Fort Lauderdale-Hollywood-Pompano Beach .....	441.9	459.2	454.7	.4	.4	.4	36.2	36.4	36.2
Fort Myers-Cape Coral .....	99.4	111.8	110.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	11.2	12.8	12.6
Gainesville .....	89.3	92.2	92.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.6	4.1	4.2
Jacksonville .....	370.8	385.4	386.9	.5	.5	.5	27.9	27.8	27.8
Lakeland-Winter Haven .....	134.6	142.0	142.3	4.3	4.8	4.7	8.1	8.4	9.1
Melbourne-Titusville-Palm Bay .....	139.3	138.1	138.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.2	8.0	7.9
Miami-Hialeah .....	798.0	810.3	808.7	.9	.9	.9	39.6	38.8	38.2
Orlando .....	439.8	470.4	472.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	33.6	33.8	33.5
Pensacola .....	120.8	122.0	122.7	.4	.3	.3	10.3	10.0	10.4
Sarasota .....	96.6	101.7	102.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.8	9.9	10.2
Tallahassee .....	101.9	106.9	107.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.9	5.9	5.8
Tampa-St. Petersburg-Clearwater .....	756.2	785.7	783.1	.7	.7	.7	59.9	63.1	62.8
West Palm Beach-Boca Raton-Delray Beach .....	299.8	323.7	321.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	25.9	30.0	29.8

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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Alabama</b> .....	358.7	349.0	355.0	71.5	70.9	71.4	315.7	323.8	326.7
Birmingham .....	55.6	52.2	52.8	27.4	27.6	27.8	94.5	97.6	98.5
Huntsville .....	30.9	30.3	30.5	2.6	2.7	2.7	21.9	22.5	22.7
Mobile .....	26.2	26.5	26.1	9.5	9.2	9.1	42.3	44.0	44.3
Montgomery .....	17.6	17.7	17.6	4.7	4.7	4.7	26.7	27.9	27.8
Tuscaloosa .....	8.8	9.2	9.5	2.0	2.1	2.1	11.3	11.7	11.9
<b>Alaska</b> .....	10.8	9.7	11.3	17.6	17.1	17.5	43.2	40.1	40.6
<b>Arizona</b> .....	182.7	184.6	184.4	64.5	69.8	69.8	323.9	334.5	333.3
Phoenix .....	131.1	133.4	133.4	42.7	46.2	46.4	221.0	229.4	227.9
Tucson .....	31.9	30.7	30.6	8.9	9.8	9.8	54.2	54.4	54.5
<b>Arkansas</b> .....	211.2	213.4	214.8	47.2	49.1	49.3	183.2	185.7	188.9
Fayetteville-Springdale .....	9.9	10.7	10.9	3.9	4.1	4.1	10.5	10.8	10.9
Fort Smith .....	24.5	25.6	25.6	3.5	3.7	3.8	15.4	15.3	15.1
Little Rock-North Little Rock .....	33.0	31.3	31.4	14.7	14.6	14.7	54.3	54.5	55.0
Pine Bluff .....	5.9	6.2	6.3	2.9	2.7	2.7	6.4	6.2	6.2
<b>California</b> .....	2,053.6	2,064.3	2,063.1	568.9	580.1	583.6	2,659.8	2,756.0	2,761.6
Anaheim-Santa Ana .....	240.2	243.4	243.5	33.5	34.7	34.7	254.4	271.1	271.9
Bakersfield .....	10.0	10.3	10.3	8.0	8.1	8.2	39.0	39.7	39.8
Fresno .....	19.5	20.8	20.5	9.9	10.3	10.4	49.3	51.4	51.8
Los Angeles-Long Beach .....	886.6	895.9	891.7	202.2	203.3	204.2	908.9	936.7	935.9
Modesto .....	19.9	20.3	20.7	4.2	4.2	4.2	23.7	25.4	25.7
Oakland .....	101.1	102.8	103.2	52.7	55.3	55.5	195.8	203.0	203.7
Oxnard-Ventura .....	28.4	29.3	29.2	9.3	10.2	10.4	47.8	50.1	50.4
Riverside-San Bernardino .....	73.3	77.6	77.7	30.3	31.1	31.4	139.1	145.2	145.7
Sacramento .....	37.1	38.2	38.8	23.2	23.9	24.2	123.7	128.8	129.2
Salinas-Seaside-Monterey .....	9.3	9.6	10.0	4.8	4.8	4.9	26.7	27.0	27.3
San Diego .....	122.8	120.5	120.0	31.8	32.7	32.8	193.7	200.5	201.6
San Francisco .....	78.3	77.3	76.0	79.6	79.2	79.2	210.0	217.3	216.8
San Jose .....	266.4	258.7	258.0	21.4	21.0	21.1	147.8	151.5	152.0
Santa Barbara-Santa Maria-Lompoc .....	24.2	22.8	22.8	5.3	5.2	5.3	33.8	34.5	34.8
Santa Rosa-Petaluma .....	17.7	18.0	18.1	5.4	5.6	5.7	30.1	31.2	31.6
Stockton .....	20.8	21.2	21.8	8.1	8.4	8.3	30.8	31.2	31.5
Vallejo-Fairfield-Napa .....	11.6	11.9	12.0	4.4	4.4	4.5	28.1	29.9	30.6
<b>Colorado</b> .....	185.0	182.0	182.0	87.9	88.5	89.0	347.4	343.6	344.4
Boulder-Longmont .....	28.1	28.5	28.3	2.3	2.3	2.2	22.6	22.6	22.6
Denver .....	97.1	94.4	94.2	62.8	64.1	64.4	201.5	199.9	200.1
<b>Connecticut</b> .....	398.8	393.7	393.8	69.3	71.4	72.0	353.3	362.5	367.9
Bridgeport-Milford .....	60.8	60.5	60.5	7.3	7.6	7.5	44.0	44.5	44.9
Hartford .....	93.0	94.3	94.4	16.9	17.4	17.4	96.8	98.9	99.3
New Britain .....	22.8	20.9	20.7	3.2	3.3	3.3	12.8	13.3	13.5
New Haven-Meriden .....	47.3	47.6	47.5	17.9	18.1	18.2	55.7	56.6	57.7
Stamford .....	25.9	24.9	24.7	4.9	4.9	4.9	28.3	29.7	30.0
Waterbury .....	25.9	24.6	24.6	3.1	3.1	3.2	16.1	17.0	17.0
<b>Delaware</b> .....	66.9	68.7	68.7	12.5	12.7	12.7	65.7	68.3	69.5
Wilmington .....	57.4	58.8	58.8	13.4	13.9	13.8	54.3	56.7	57.7
<b>District of Columbia</b> .....	15.3	15.6	15.6	24.3	24.4	24.6	62.7	62.6	64.2
Washington MSA .....	85.1	85.7	84.6	92.4	96.2	97.2	390.9	407.5	408.4
<b>Florida</b> .....	516.1	525.3	525.3	244.2	247.4	247.9	1,227.4	1,314.2	1,310.3
Daytona Beach .....	12.3	12.8	12.8	3.4	3.3	3.3	31.1	32.9	32.6
Fort Lauderdale-Hollywood-Pompano Beach .....	42.8	44.2	44.1	21.5	22.2	22.0	130.6	136.0	134.5
Fort Myers-Cape Coral .....	5.0	5.6	5.6	4.6	5.1	5.1	29.8	34.4	33.9
Gainesville .....	5.3	5.5	5.5	1.7	1.7	1.7	19.5	20.6	20.8
Jacksonville .....	37.4	38.0	37.9	26.6	27.6	27.7	97.6	103.1	103.7
Lakeland-Winter Haven .....	21.3	22.0	21.5	5.9	6.1	6.1	37.3	39.8	40.4
Melbourne-Titusville-Palm Bay .....	27.9	27.0	26.9	5.6	5.4	5.5	31.9	32.5	32.5
Miami-Hialeah .....	94.2	92.5	92.6	66.6	66.3	66.2	210.7	218.9	217.5
Orlando .....	50.1	53.3	53.2	23.1	24.6	24.8	113.7	120.8	121.2
Pensacola .....	11.2	11.1	11.2	6.2	6.6	6.4	31.4	31.3	31.7
Sarasota .....	7.7	8.3	8.3	3.5	3.5	3.6	28.9	29.9	29.9
Tallahassee .....	4.4	4.6	4.7	2.9	2.9	2.9	20.9	22.7	22.5
Tampa-St. Petersburg-Clearwater .....	89.3	89.3	88.7	37.3	37.0	37.0	208.9	216.9	215.8
West Palm Beach-Boca Raton-Delray Beach .....	37.0	36.3	35.7	10.8	11.6	11.5	78.5	86.6	85.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Alabama</b> .....	68.5	70.2	70.7	258.7	265.1	266.9	301.3	299.5	301.6
Birmingham .....	28.1	28.5	28.7	86.9	90.4	91.4	59.5	59.9	60.1
Huntsville .....	3.4	3.4	3.4	24.2	26.0	26.4	28.2	28.9	29.0
Mobile .....	7.8	7.5	7.5	33.5	34.0	34.2	27.7	28.0	28.0
Montgomery .....	7.2	7.3	7.3	24.1	24.3	24.2	31.5	31.2	31.1
Tuscaloosa .....	2.0	2.0	2.0	7.6	8.0	8.0	19.0	19.2	19.4
<b>Alaska</b> .....	12.6	12.1	12.2	43.5	41.7	42.0	70.5	67.8	68.0
<b>Arizona</b> .....	87.9	91.6	91.7	325.2	340.3	341.8	231.2	241.0	240.6
Phoenix .....	69.3	72.1	72.2	218.7	229.8	230.9	117.6	124.0	124.0
Tucson .....	12.2	12.8	12.9	61.1	63.3	63.3	51.3	51.2	51.2
<b>Arkansas</b> .....	37.0	37.7	37.9	146.0	151.1	153.5	147.8	149.6	149.7
Fayetteville-Springdale ..	1.5	1.4	1.4	6.2	6.7	6.7	10.5	10.9	10.8
Fort Smith .....	2.7	2.7	2.7	14.0	15.5	15.6	7.4	7.4	7.4
Little Rock-North Little Rock	15.0	15.4	15.5	49.7	51.8	52.1	45.7	46.2	46.0
Pine Bluff .....	1.6	1.7	1.7	5.7	5.8	5.9	7.4	7.4	7.4
<b>California</b> .....	758.4	781.9	784.1	2,740.6	2,848.4	2,862.6	1,862.9	1,898.3	1,905.0
Anaheim-Santa Ana .....	82.7	84.3	84.5	249.9	264.3	268.1	114.3	117.2	117.7
Bakersfield .....	6.3	6.3	6.3	30.0	31.1	31.3	38.4	38.9	39.0
Fresno .....	13.5	14.0	14.0	43.2	45.9	46.5	45.7	46.2	46.2
Los Angeles-Long Beach .....	272.2	280.5	280.1	998.3	1,033.8	1,033.0	492.9	498.6	501.1
Modesto .....	4.5	4.6	4.6	20.4	21.2	21.4	16.4	17.0	17.2
Oakland .....	49.9	54.3	54.7	178.0	185.0	185.4	158.2	162.6	162.5
Oxnard-Ventura .....	10.2	10.4	10.6	42.3	44.1	44.5	39.9	40.7	40.9
Riverside-San Bernardino ..	23.6	24.7	25.0	131.2	139.0	139.0	117.2	124.2	124.1
Sacramento .....	30.1	31.5	31.9	107.1	112.3	113.1	161.2	166.5	167.0
Salinas-Seaside-Monterey ..	4.9	5.1	5.1	24.4	25.3	25.8	26.6	27.1	27.2
San Diego .....	55.2	58.1	58.0	208.5	219.7	221.4	151.9	156.8	157.0
San Francisco .....	114.0	112.4	112.5	266.4	272.1	273.9	136.4	137.9	139.2
San Jose .....	33.2	33.1	33.3	183.3	188.5	189.8	84.4	84.8	84.7
Santa Barbara-Santa Maria-Lompoc	7.9	8.1	8.1	37.7	39.5	39.4	27.0	27.9	27.9
Santa Rosa-Petaluma .....	7.9	8.2	8.2	25.7	26.2	26.6	21.4	22.0	21.9
Stockton .....	8.0	8.2	8.3	28.2	28.3	28.4	29.0	30.5	30.7
Vallejo-Fairfield-Napa .....	4.6	4.7	4.8	25.6	27.3	27.7	36.6	37.0	37.0
<b>Colorado</b> .....	97.5	97.2	97.5	326.2	328.9	327.8	257.4	263.4	263.9
Boulder-Longmont .....	3.8	3.9	3.9	20.5	21.5	21.4	21.4	21.6	21.6
Denver .....	65.6	65.1	65.2	196.5	195.8	197.5	121.7	125.9	125.8
<b>Connecticut</b> .....	137.0	143.8	145.0	368.0	381.9	387.7	198.9	203.5	203.2
Bridgeport-Milford .....	10.3	11.2	11.3	43.7	45.2	45.8	19.0	18.2	18.4
Hartford .....	72.7	77.6	77.9	101.2	104.5	105.8	58.3	59.1	59.1
New Britain .....	3.5	4.0	4.0	12.6	13.3	13.4	6.7	6.8	6.9
New Haven-Meriden .....	14.4	14.7	14.9	64.7	66.9	67.6	30.5	31.2	31.0
Stamford .....	10.9	11.6	11.7	35.2	37.3	38.1	9.8	10.2	10.2
Waterbury .....	3.9	4.1	4.1	20.0	20.6	20.9	12.0	12.4	12.3
<b>Delaware</b> .....	22.4	24.5	24.7	65.5	70.0	70.5	46.2	46.9	47.2
Wilmington .....	20.2	22.6	22.8	58.6	62.5	63.1	36.7	37.9	38.0
<b>District of Columbia</b> .....	35.9	36.9	37.2	218.9	227.7	229.3	264.7	263.1	263.2
Washington MSA .....	111.9	118.4	119.0	606.9	631.6	636.5	554.0	561.3	562.5
<b>Florida</b> .....	335.7	351.5	353.0	1,202.8	1,278.5	1,279.6	706.8	732.2	733.3
Daytona Beach .....	6.4	6.6	6.6	28.5	30.0	29.4	17.2	18.2	18.1
Fort Lauderdale-Hollywood-Pompano Beach	36.3	38.1	37.9	119.4	125.0	122.6	54.7	56.9	57.0
Fort Myers-Cape Coral .....	7.4	8.5	8.4	26.7	29.9	29.5	14.5	15.4	15.4
Gainesville .....	4.0	3.9	3.9	19.8	21.0	21.1	34.3	35.3	35.3
Jacksonville .....	34.9	36.4	36.5	89.6	93.9	94.2	56.3	58.1	58.6
Lakeland-Winter Haven .....	7.9	8.0	8.0	31.2	33.9	33.5	18.6	19.0	19.0
Melbourne-Titusville-Palm Bay	5.1	5.2	5.3	39.8	39.7	39.9	19.7	20.2	20.3
Miami-Hialeah .....	66.9	69.2	69.2	214.8	216.1	216.5	104.3	107.6	107.6
Orlando .....	29.3	31.6	32.0	139.3	151.9	153.0	50.6	54.3	54.6
Pensacola .....	5.4	5.6	5.6	28.5	29.2	29.4	27.4	27.9	27.7
Sarasota .....	7.9	8.1	8.0	27.2	29.8	29.9	11.7	12.1	12.2
Tallahassee .....	4.4	4.5	4.5	20.4	20.6	20.8	43.8	45.4	45.6
Tampa-St. Petersburg-Clearwater	60.5	63.4	63.2	203.5	214.3	214.0	96.1	101.0	100.9
West Palm Beach-Boca Raton-Delray Beach	25.1	27.2	27.2	85.9	93.1	92.6	36.6	38.9	39.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Georgia</b> .....	2,652.1	2,735.6	2,751.0	8.1	8.9	8.8	152.2	156.8	157.8
Albany .....	49.5	48.8	48.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.2	2.1
Athens .....	61.2	63.2	63.2	.1	.2	.2	2.5	2.5	2.6
Atlanta .....	1,313.6	1,372.7	1,382.6	1.2	1.7	1.8	74.7	80.6	80.0
Augusta .....	150.6	152.2	153.1	.5	.5	.5	9.0	8.3	8.5
Columbus .....	89.5	90.6	90.6	.1	.1	.1	5.3	5.2	5.2
Macon-Warner Robins .....	115.8	117.2	117.0	.1	.1	.1	5.1	5.1	5.1
Savannah .....	98.7	101.2	101.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.7	7.3	7.0
<b>Hawaii</b> .....	433.8	450.5	450.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.9	21.6	21.5
Honolulu .....	348.4	361.3	361.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.9	17.7	17.8
<b>Idaho</b> .....	330.7	333.6	336.4	3.1	2.4	2.5	13.6	12.9	13.7
Boise City .....	86.0	86.1	87.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.8	4.5	4.6
<b>Illinois</b> .....	4,754.4	4,797.2	4,827.2	25.1	23.6	23.8	167.1	158.7	165.6
Aurora-Elgin .....	127.8	131.6	134.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.7	4.8	5.2
Bloomington-Normal .....	53.2	54.4	54.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.1	1.2
Champaign-Urbana-Rantoul .....	82.8	83.6	83.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	2.0	2.0
Chicago .....	2,921.1	2,955.5	2,969.8	3.1	3.2	3.4	105.0	107.4	113.5
Davenport-Rock Island-Moline .....	153.8	152.8	154.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	4.4	4.7
Decatur .....	50.0	49.2	49.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.5	1.6
Joliet .....	93.8	92.8	93.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.9	3.8	3.9
Kankakee .....	32.0	32.7	32.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.1	1.2	1.2
Lake County .....	173.2	172.8	176.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.8	5.2	5.8
Peoria .....	131.2	130.6	131.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.1	5.0	5.3
Rockford .....	122.7	121.0	121.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	3.2	3.4
Springfield .....	93.2	92.2	92.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.0	2.0
<b>Indiana</b> .....	2,211.0	2,257.2	2,293.5	8.9	7.9	8.0	89.4	95.0	104.9
Anderson .....	48.3	47.4	47.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.2	1.2	1.3
Bloomington .....	49.1	50.5	51.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.7	1.7	1.9
Elkhart-Goshen .....	90.5	94.3	95.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.3	2.5	2.6
Evansville .....	123.5	123.6	124.5	2.4	2.2	2.2	8.0	8.1	8.5
Fort Wayne .....	173.5	178.1	180.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8.0	8.3	8.5
Gary-Hammond .....	212.4	209.2	214.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	10.6	10.8	11.9
Indianapolis .....	570.9	585.6	594.3	.8	.7	.8	27.0	28.3	30.6
Kokomo .....	44.2	43.9	44.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.2	1.0	1.1
Lafayette .....	61.8	62.1	63.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.7	1.9	2.3
Muncie .....	49.4	49.6	50.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.7	1.7	1.9
South Bend-Mishawaka .....	105.0	108.2	109.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.2	4.7	4.9
Terre Haute .....	52.7	52.2	52.6	.5	.4	.4	1.7	1.6	1.7
<b>Iowa</b> .....	1,076.2	1,091.3	1,100.9	1.9	1.7	2.0	33.0	32.2	35.8
Cedar Rapids .....	81.7	82.0	82.5	.2	.1	.1	2.8	3.2	3.4
Des Moines .....	194.3	200.2	201.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.1	6.1	6.6
Dubuque .....	40.9	41.3	42.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.1	1.1	1.2
Iowa City .....	49.8	50.0	50.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.3	1.5
Sioux City .....	48.6	46.1	46.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.7	1.8
Waterloo-Cedar Falls .....	59.5	60.1	60.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.4	1.6
<b>Kansas</b> .....	981.6	988.6	997.0	12.5	11.5	11.6	43.3	39.4	40.9
Lawrence .....	31.0	31.4	31.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.0	1.0	1.1
Topeka .....	84.1	85.1	85.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	3.5	3.6
Wichita .....	206.0	209.3	211.2	2.3	2.2	2.3	9.9	9.7	10.5
<b>Kentucky</b> .....	1,275.1	1,288.3	1,300.2	40.7	38.9	39.0	56.0	57.7	58.8
Lexington-Fayette .....	169.2	169.5	172.9	.9	1.0	1.0	9.3	9.9	11.0
Louisville .....	418.2	423.7	429.3	.7	.7	.7	20.4	20.8	22.3
Owensboro .....	32.6	32.4	32.2	.9	1.0	1.0	1.9	1.8	1.8
<b>Louisiana</b> .....	1,533.8	1,487.7	1,489.6	65.0	58.2	58.1	92.0	83.5	83.6
Alexandria .....	45.3	45.6	45.6	.2	.2	.2	2.6	2.6	2.6
Baton Rouge .....	213.9	213.0	213.1	1.1	1.0	1.0	19.7	20.2	19.8
Houma-Thibodaux .....	56.2	51.4	51.7	6.8	5.8	5.9	2.0	1.4	1.4
Lafayette .....	90.6	82.3	82.6	12.5	11.0	11.1	3.8	3.0	3.0
Lake Charles .....	58.1	57.1	57.5	1.4	1.3	1.3	5.6	4.8	5.1
Monroe .....	55.5	54.2	54.8	.5	.6	.6	3.3	2.8	3.0
New Orleans .....	524.3	509.3	509.0	17.4	16.5	16.8	26.2	22.9	22.7
Shreveport .....	135.6	130.1	130.0	3.9	3.1	3.1	7.7	7.2	7.2
<b>Maine</b> .....	464.4	477.4	486.4	.1	.1	.1	24.4	25.1	28.7
Lewiston-Auburn .....	37.6	38.0	38.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.6	1.7
Portland .....	114.0	115.7	117.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.0	6.6	7.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Georgia</b> .....	565.5	566.3	567.5	165.1	166.9	168.1	657.8	688.8	693.9
Albany .....	10.0	8.6	8.5	2.2	2.1	2.1	12.3	12.5	12.5
Athens .....	15.1	15.6	15.5	1.7	1.7	1.7	12.4	12.7	12.6
Atlanta .....	192.4	191.8	192.0	107.4	109.2	110.7	361.4	382.0	386.5
Augusta .....	36.4	36.3	36.1	5.0	5.1	5.1	32.1	32.8	33.3
Columbus .....	20.1	19.7	19.7	3.4	3.4	3.4	18.7	20.3	20.3
Macon-Warner Robins .....	19.2	19.1	19.2	4.9	5.1	5.1	24.9	25.3	24.9
Savannah .....	16.6	16.9	16.9	9.4	9.7	9.7	23.8	23.7	23.8
<b>Hawaii</b> .....	21.9	21.8	21.8	33.9	34.3	34.5	115.2	119.5	118.6
Honolulu .....	16.2	16.0	16.0	27.6	27.8	28.0	90.8	93.9	93.3
<b>Idaho</b> .....	50.7	52.6	52.4	18.4	18.1	18.3	82.3	82.2	83.0
Boise City .....	10.2	10.4	10.4	5.5	5.6	5.6	21.7	21.5	21.7
<b>Illinois</b> .....	927.8	925.9	927.1	279.3	279.0	279.8	1,166.3	1,197.9	1,210.7
Aurora-Elgin .....	35.3	35.8	36.4	4.6	5.0	5.0	35.2	35.9	36.6
Bloomington-Normal .....	4.4	4.9	4.9	3.2	2.9	2.9	12.4	12.5	12.5
Champaign-Urbana-Rantoul .....	7.7	7.5	7.8	2.3	2.1	2.1	19.1	19.2	19.3
Chicago .....	551.5	539.1	538.5	184.8	188.9	189.4	721.6	732.1	737.9
Davenport-Rock Island-Moline .....	33.7	33.2	33.8	8.3	8.2	8.2	42.2	42.0	42.3
Decatur .....	14.7	13.6	13.6	4.5	4.6	4.5	10.7	10.9	10.9
Joliet .....	19.5	19.2	19.2	8.8	8.3	8.4	22.2	22.3	22.4
Kankakee .....	5.2	5.3	5.3	1.5	1.4	1.4	8.0	8.1	8.0
Lake County .....	40.9	39.3	39.4	6.3	6.5	6.5	43.9	44.8	45.0
Peoria .....	31.9	30.5	30.6	6.6	6.5	6.6	32.6	32.9	33.0
Rockford .....	45.4	43.3	42.9	4.5	4.4	4.5	28.1	28.3	28.3
Springfield .....	3.9	3.8	3.8	4.6	4.7	4.7	19.3	19.2	19.3
<b>Indiana</b> .....	603.4	600.2	603.6	111.6	112.7	114.2	514.2	538.2	550.6
Anderson .....	18.5	17.4	17.3	1.3	1.4	1.4	10.4	10.5	10.9
Bloomington .....	7.7	8.4	8.4	1.6	1.7	1.7	11.0	11.5	12.0
Elkhart-Goshen .....	48.5	50.7	51.6	2.8	2.7	2.7	16.9	17.7	18.1
Evansville .....	31.6	30.7	30.5	6.4	6.4	6.4	30.2	30.9	31.3
Fort Wayne .....	47.6	48.9	49.1	11.4	11.5	11.6	42.5	43.6	44.3
Gary-Hammond .....	56.8	52.2	53.7	13.7	13.2	13.7	49.5	49.7	50.7
Indianapolis .....	106.7	106.3	106.5	33.8	35.3	35.9	144.9	148.8	150.9
Kokomo .....	19.8	19.2	18.9	1.4	1.3	1.4	9.2	9.4	9.7
Lafayette .....	11.5	11.3	11.3	1.6	1.6	1.6	12.4	12.6	12.7
Muncie .....	10.9	10.8	10.7	2.2	2.2	2.2	12.0	11.9	12.2
South Bend-Mishawaka .....	23.5	23.9	23.8	4.6	4.8	4.8	26.8	27.7	28.1
Terre Haute .....	10.6	10.1	10.1	2.6	2.6	2.6	13.8	13.8	13.9
<b>Iowa</b> .....	202.6	207.8	209.2	50.8	52.5	52.7	272.2	276.4	278.5
Cedar Rapids .....	22.0	22.1	22.1	4.1	4.1	4.1	19.9	20.0	20.1
Des Moines .....	21.6	22.8	22.9	11.6	11.9	11.9	50.7	51.1	51.4
Dubuque .....	11.9	11.9	11.9	1.6	1.5	1.6	9.2	9.5	9.8
Iowa City .....	3.6	3.9	3.9	1.1	1.2	1.3	9.1	9.0	9.1
Sioux City .....	10.0	6.2	6.2	3.2	3.5	3.5	12.0	12.1	12.2
Waterloo-Cedar Falls .....	12.7	12.8	12.9	1.8	1.8	1.7	14.0	14.1	14.2
<b>Kansas</b> .....	176.6	177.7	179.4	62.4	61.9	62.5	242.2	245.5	246.9
Lawrence .....	4.5	4.4	4.4	1.3	1.3	1.3	6.6	6.7	6.8
Topeka .....	9.8	9.4	9.5	6.8	6.6	6.6	18.4	18.9	19.0
Wichita .....	55.3	57.3	57.9	9.9	9.8	9.8	49.2	49.4	49.7
<b>Kentucky</b> .....	252.7	256.3	254.7	66.5	69.1	69.5	297.7	298.4	301.8
Lexington-Fayette .....	28.4	27.8	27.7	7.7	7.6	7.6	39.1	39.7	40.6
Louisville .....	86.2	86.2	85.8	25.8	26.0	26.2	102.3	101.5	103.7
Owensboro .....	5.7	5.4	5.2	2.2	2.3	2.3	8.3	7.9	7.9
<b>Louisiana</b> .....	166.0	164.4	165.5	108.1	104.9	105.4	370.8	354.4	355.1
Alexandria .....	3.3	3.4	3.4	2.3	2.3	2.3	10.5	10.7	10.7
Baton Rouge .....	19.1	18.7	18.7	10.3	10.5	10.5	51.8	51.9	52.2
Houma-Thibodaux .....	4.8	4.2	4.2	6.2	5.7	5.8	14.0	13.2	13.2
Lafayette .....	6.0	5.7	5.7	7.1	6.4	6.5	24.3	21.7	21.7
Lake Charles .....	8.7	9.8	10.0	3.8	3.6	3.5	13.8	13.7	13.7
Monroe .....	7.3	7.2	7.3	2.9	2.6	2.7	15.1	14.6	14.6
New Orleans .....	43.4	42.7	42.8	43.8	41.8	41.7	138.0	132.5	132.3
Shreveport .....	19.2	18.6	18.7	8.5	8.3	8.2	32.2	29.5	29.5
<b>Maine</b> .....	101.8	102.2	100.7	18.6	19.3	19.4	110.0	113.9	117.5
Lewiston-Auburn .....	10.3	9.8	9.9	1.3	1.4	1.4	8.7	9.1	9.2
Portland .....	16.7	16.0	15.9	5.8	5.9	6.1	32.5	33.7	34.1

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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Georgia</b> .....	143.1	148.8	149.6	498.3	531.0	536.2	462.1	468.1	469.1
Albany .....	2.4	2.4	2.5	7.9	8.1	8.1	12.5	12.7	12.7
Athens .....	1.9	2.0	2.0	8.8	9.3	9.5	18.7	19.2	19.2
Atlanta .....	93.0	96.6	97.2	299.1	321.8	324.7	184.4	189.0	189.7
Augusta .....	5.6	6.0	6.0	29.4	29.6	29.9	32.6	33.7	33.7
Columbus .....	6.0	6.2	6.1	15.4	15.7	15.6	20.4	20.1	20.2
Macon-Warner Robins .....	7.3	7.4	7.5	20.5	20.8	20.8	33.9	34.2	34.2
Savannah .....	4.4	4.4	4.3	22.3	22.9	23.0	15.5	16.3	16.4
<b>Hawaii</b> .....	32.6	33.3	33.4	118.0	122.7	122.8	95.3	97.3	97.8
Honolulu .....	27.5	28.1	28.2	91.7	95.5	95.7	80.7	82.3	82.7
<b>Idaho</b> .....	23.8	23.9	24.0	66.8	68.2	68.7	72.0	73.3	73.8
Boise City .....	8.5	8.5	8.6	18.5	18.5	18.9	16.8	17.1	17.3
<b>Illinois</b> .....	343.5	348.0	348.9	1,115.5	1,132.6	1,139.7	729.8	731.5	731.6
Aurora-Elgin .....	6.9	6.9	6.9	26.7	28.3	29.0	14.3	14.8	15.1
Bloomington-Normal .....	9.2	9.3	9.3	11.0	11.3	11.3	11.8	12.4	12.3
Champaign-Urbana-Rantoul .....	3.2	3.3	3.3	14.4	14.5	14.6	34.1	35.0	34.8
Chicago .....	247.7	252.1	252.7	748.9	767.6	770.3	358.5	365.1	364.1
Davenport-Rock Island-Moline .....	7.8	8.0	8.0	29.9	29.7	29.7	27.4	27.3	27.3
Decatur .....	2.8	2.7	2.7	10.1	10.3	10.3	5.6	5.6	5.6
Joliet .....	3.8	3.8	3.8	19.0	19.0	18.9	16.4	16.2	16.2
Kankakee .....	1.6	1.6	1.6	8.2	8.3	8.3	6.4	6.8	6.7
Lake County .....	6.7	6.4	6.4	39.4	40.3	43.3	29.5	29.6	29.3
Peoria .....	6.9	7.0	7.0	32.0	32.3	32.2	16.1	16.4	16.3
Rockford .....	5.4	5.4	5.4	23.7	24.1	24.1	12.3	12.3	12.4
Springfield .....	7.8	7.9	7.9	23.7	22.7	22.6	31.6	31.8	31.8
<b>Indiana</b> .....	108.8	112.4	113.5	425.8	434.7	442.2	348.9	356.2	356.5
Anderson .....	1.6	1.6	1.6	9.4	9.5	9.5	5.8	5.9	5.8
Bloomington .....	1.6	1.6	1.7	7.7	7.8	7.9	17.8	17.9	18.2
Elkhart-Goshen .....	2.3	2.4	2.4	12.3	12.7	12.8	5.4	5.6	5.6
Evansville .....	4.9	4.9	5.0	28.0	28.5	28.8	12.0	12.0	12.0
Fort Wayne .....	11.4	11.7	11.8	35.2	36.3	36.9	17.4	17.9	17.9
Gary-Hammond .....	7.9	8.1	8.2	43.5	44.5	45.5	30.4	30.6	30.4
Indianapolis .....	42.6	43.5	44.2	126.4	132.4	135.1	88.7	90.2	90.3
Kokomo .....	1.3	1.4	1.4	6.0	6.0	6.2	5.3	5.6	5.6
Lafayette .....	2.8	3.0	3.0	10.9	11.1	11.3	20.9	20.7	21.2
Muncie .....	1.6	1.6	1.6	9.8	9.9	10.0	11.2	11.6	11.5
South Bend-Mishawaka .....	5.3	5.6	5.7	29.3	29.9	30.3	11.3	11.6	11.6
Terre Haute .....	1.9	1.9	1.9	10.8	10.9	11.1	10.8	10.8	10.9
<b>Iowa</b> .....	62.5	63.7	63.8	239.7	240.9	242.8	213.5	216.1	216.1
Cedar Rapids .....	4.7	4.5	4.5	17.8	18.1	18.4	10.2	9.9	9.8
Des Moines .....	25.0	26.5	26.5	48.7	51.1	51.7	29.5	30.6	30.4
Dubuque .....	1.4	1.4	1.5	12.1	12.4	12.6	3.6	3.5	3.5
Iowa City .....	1.4	1.6	1.6	7.8	7.8	7.9	25.5	25.1	24.9
Sioux City .....	2.5	2.6	2.6	12.8	13.5	13.9	6.4	6.5	6.6
Waterloo-Cedar Falls .....	3.2	3.2	3.3	13.9	14.1	14.3	12.3	12.7	12.7
<b>Kansas</b> .....	53.8	54.6	55.0	191.6	196.5	196.9	199.2	201.5	203.8
Lawrence .....	1.0	1.0	1.0	5.3	5.4	5.5	11.3	11.6	11.8
Topeka .....	5.9	6.1	6.2	18.7	19.3	19.5	21.1	21.2	20.7
Wichita .....	10.7	11.0	11.0	42.8	44.2	44.2	25.9	25.7	25.8
<b>Kentucky</b> .....	58.9	61.1	61.6	260.5	263.5	269.7	242.1	243.3	245.1
Lexington-Fayette .....	8.6	9.0	9.0	40.3	39.0	40.4	34.9	35.5	35.6
Louisville .....	27.3	28.9	28.9	95.9	99.1	101.0	59.7	60.6	60.6
Owensboro .....	1.3	1.4	1.4	7.4	7.4	7.4	4.9	5.2	5.2
<b>Louisiana</b> .....	85.6	85.3	85.0	319.6	317.1	317.1	326.7	319.9	319.8
Alexandria .....	2.6	2.6	2.6	10.9	11.1	11.1	12.9	12.7	12.7
Baton Rouge .....	13.7	13.3	13.3	41.4	41.7	42.0	56.8	55.7	55.6
Houma-Thibodaux .....	2.6	2.4	2.4	8.6	8.1	8.2	11.2	10.6	10.6
Lafayette .....	4.2	4.0	4.0	19.1	17.5	17.6	13.6	13.0	13.0
Lake Charles .....	2.7	2.7	2.7	11.2	10.7	10.7	10.9	10.5	10.5
Monroe .....	4.4	4.5	4.5	11.2	11.2	11.4	10.8	10.7	10.7
New Orleans .....	33.7	34.1	34.0	133.9	133.8	133.7	87.9	85.0	85.0
Shreveport .....	7.9	7.7	7.7	30.7	30.3	30.2	25.5	25.4	25.4
<b>Maine</b> .....	22.2	23.3	23.5	97.9	102.4	104.5	89.4	91.1	92.0
Lewiston-Auburn .....	2.0	2.1	2.1	9.6	10.0	10.1	4.0	4.0	4.0
Portland .....	10.6	11.4	11.5	26.1	26.8	27.4	15.3	15.3	15.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Maryland</b> .....	1,931.9	1,971.6	1,989.8	1.6	1.6	1.7	135.6	137.4	141.2
Baltimore MSA .....	1,044.6	1,059.3	1,067.5	.2	.3	.3	64.3	66.4	68.7
Baltimore City .....	454.8	454.8	456.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.8	17.1	17.6
Suburban Maryland-D.C. ....	680.9	707.7	711.6	.5	.3	.4	58.3	60.2	62.1
<b>Massachusetts</b> .....	2,968.8	3,008.0	3,038.6	1.7	2.1	2.3	117.1	115.9	124.5
Boston .....	1,672.5	1,705.3	1,718.9	.7	.8	.9	61.0	59.4	64.8
Brockton .....	70.1	71.8	72.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	4.1	4.7
Fall River .....	54.9	55.1	55.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.0	2.6
Fitchburg-Leominster .....	40.0	39.6	39.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	1.9	2.0
Lawrence-Haverhill .....	160.5	159.3	161.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.9	8.4	8.6
Lowell .....	104.8	104.2	105.1	.2	.1	.1	4.5	4.4	5.0
New Bedford .....	65.4	65.3	65.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	2.8	3.4
Pittsfield .....	41.6	42.3	43.2	.1	.1	.1	1.9	1.7	2.1
Springfield .....	229.3	235.8	238.2	.2	.2	.2	7.8	7.6	8.6
Worcester .....	190.4	194.5	197.0	.1	.2	.2	8.0	7.6	8.6
<b>Michigan</b> .....	3,621.5	3,644.6	3,687.1	10.2	10.0	10.8	109.4	106.9	122.4
Ann Arbor .....	158.6	164.0	163.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.8	4.0	4.0
Battle Creek .....	54.4	55.5	55.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.4	1.5
Benton Harbor .....	62.2	62.0	62.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.3	1.4
Detroit .....	1,819.9	1,850.2	1,876.0	.9	.8	.9	54.5	58.7	64.2
Flint .....	178.5	176.1	176.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.8	4.6	5.0
Grand Rapids .....	297.6	300.4	301.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.0	13.1	14.8
Jackson .....	48.5	49.5	49.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.0	1.2	1.3
Kalamazoo .....	101.2	103.3	104.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.0	2.9	3.1
Lansing-East Lansing .....	197.1	202.0	203.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.4	4.5	4.9
Muskegon .....	55.7	55.2	55.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.6	1.7
Saginaw-Bay City-Midland .....	149.8	149.5	151.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.9	5.3	5.6
<b>Minnesota</b> .....	1,870.3	1,890.6	1,918.5	7.6	4.7	5.2	65.7	63.9	72.5
Duluth .....	82.9	80.1	81.4	4.9	2.9	3.0	2.8	2.8	3.1
Minneapolis-St. Paul .....	1,217.6	1,237.3	1,249.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	44.8	44.9	49.2
Rochester .....	54.3	55.2	55.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.6	1.4	1.6
St. Cloud .....	66.2	67.6	68.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.0	3.4	3.7
<b>Mississippi</b> .....	846.9	855.0	860.9	7.3	6.1	6.2	35.3	34.1	34.7
Jackson .....	169.9	172.5	173.9	1.2	1.1	1.1	8.5	8.0	8.3
<b>Missouri</b> .....	2,129.5	2,125.5	2,146.0	6.0	5.4	5.3	97.1	92.9	97.9
Kansas City .....	714.1	714.3	718.2	.5	.5	.6	34.3	34.4	35.2
St. Joseph .....	35.8	35.3	35.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.3	1.5
St. Louis .....	1,093.3	1,088.2	1,093.3	3.6	3.4	3.4	56.4	51.7	53.9
Springfield .....	102.8	103.4	104.8	.1	.1	.1	4.3	4.1	4.5
<b>Montana</b> .....	273.2	272.2	274.3	5.7	5.8	6.2	10.2	7.8	8.7
<b>Nebraska</b> .....	649.4	654.2	660.0	1.8	1.9	2.0	23.3	22.0	22.8
Lincoln .....	107.1	108.3	108.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	3.5	3.6
Omaha .....	289.8	292.0	293.3	.2	.2	.2	11.7	11.5	12.2
<b>Nevada</b> .....	460.7	485.0	492.1	6.1	6.7	6.7	26.4	27.8	28.9
Las Vegas .....	259.1	276.0	280.6	.3	.3	.3	16.3	17.1	17.6
Reno .....	124.0	127.7	129.6	.7	.7	.7	6.5	6.8	7.3
<b>New Hampshire</b> .....	478.9	492.4	495.4	.5	.4	.5	34.0	32.5	34.4
Nashua .....	85.9	88.6	89.1	.1	.1	.1	4.4	5.0	5.1
Portsmouth-Dover-Rochester,NH-ME .....	102.0	103.6	105.6	.1	.1	.1	4.9	4.5	5.0
<b>New Jersey</b> .....	3,460.5	3,506.9	3,550.1	2.2	2.1	2.2	147.2	149.5	163.6
Atlantic City .....	150.7	153.5	160.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.9	10.2	10.8
Bergen-Passaic .....	645.1	649.9	654.9	.1	.1	.1	27.5	28.8	31.0
Camden .....	404.9	412.2	416.4	.1	.1	.1	19.3	20.4	22.1
Jersey City .....	234.8	240.4	242.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.2	6.1	6.4
Middlesex-Somerset-Hunterdon .....	488.4	497.1	501.8	.6	.5	.5	21.2	20.4	21.4
Monmouth-Ocean .....	300.9	306.6	313.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18.4	18.4	20.1
Newark .....	936.9	949.7	956.0	.7	.7	.7	34.6	35.4	38.9
Trenton .....	186.2	192.3	193.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	4.3	4.7
Vineland-Millville-Bridgeton .....	53.6	55.1	55.4	.3	.4	.4	2.1	2.5	2.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Maryland</b> .....	210.1	207.6	206.4	90.3	91.8	92.4	485.4	501.9	507.5
Baltimore MSA ..	133.9	131.5	130.7	54.9	54.6	54.7	253.1	259.1	261.7
Baltimore City ..	48.5	45.5	45.3	27.6	27.2	27.2	95.3	95.9	95.8
Suburban Maryland-D.C. ....	35.6	35.7	35.1	23.5	24.4	24.7	179.0	189.5	188.9
<b>Massachusetts</b> ..	625.9	609.0	608.0	122.9	126.4	126.8	691.1	702.1	710.8
Boston .....	295.6	290.7	290.6	72.3	74.2	74.5	371.0	382.3	385.1
Brockton .....	11.8	11.0	10.9	5.1	5.2	5.0	20.2	21.5	21.5
Fall River .....	17.7	16.8	16.6	1.8	1.9	1.9	14.0	14.3	14.8
Fitchburg-Leominster .....	13.3	13.2	13.2	1.5	1.4	1.4	9.9	10.0	10.1
Lawrence-Haverhill .....	52.9	51.3	50.8	6.5	6.7	6.7	34.1	35.7	37.0
Lowell .....	38.7	37.0	36.9	3.4	3.3	3.2	21.9	21.8	21.9
New Bedford .....	21.2	21.1	20.9	2.9	3.1	3.1	14.8	14.5	14.7
Pittsfield .....	12.0	12.0	11.8	.9	1.0	1.1	10.7	11.2	11.2
Springfield .....	52.3	52.2	52.3	8.9	9.2	9.1	53.4	55.1	56.0
Worcester .....	45.9	45.2	45.0	8.2	8.0	8.2	46.4	48.6	49.3
<b>Michigan</b> .....	1,005.1	978.9	982.1	146.6	148.2	149.2	794.5	811.8	826.6
Ann Arbor .....	38.7	38.8	38.7	4.6	4.9	5.0	24.3	26.6	26.7
Battle Creek .....	14.8	15.5	15.2	1.8	1.8	1.8	10.2	10.1	10.4
Benton Harbor .....	21.6	21.0	21.2	2.5	2.5	2.6	11.7	11.7	12.0
Detroit .....	494.5	480.1	484.9	82.1	84.4	84.5	414.0	424.9	431.7
Flint .....	67.2	61.5	61.3	4.8	4.5	4.6	41.3	42.5	42.7
Grand Rapids ..	95.3	93.4	93.6	10.9	10.8	11.0	73.3	74.4	74.9
Jackson .....	12.7	12.9	12.8	4.1	4.1	4.2	10.6	10.8	11.0
Kalamazoo .....	29.4	29.2	29.3	3.3	3.4	3.4	21.9	22.7	23.3
Lansing-East Lansing ..	38.2	37.9	38.0	5.6	5.2	5.2	37.9	38.8	38.9
Muskegon .....	18.5	17.7	17.7	2.6	2.6	2.6	11.8	11.7	11.9
Saginaw-Bay City-Midland ..	45.6	44.0	44.5	7.1	7.2	7.3	34.0	33.8	34.2
<b>Minnesota</b> .....	364.6	364.4	365.6	96.9	96.6	96.9	462.6	464.8	473.9
Duluth .....	7.0	7.1	7.2	5.8	5.0	5.3	21.1	21.0	21.4
Minneapolis-St. Paul ..	249.8	249.2	249.1	66.8	66.4	65.7	297.1	303.7	306.3
Rochester .....	10.8	10.2	10.2	1.7	1.5	1.6	11.0	11.5	11.5
St. Cloud .....	11.3	12.2	12.1	3.7	3.7	3.7	19.4	20.5	20.9
<b>Mississippi</b> .....	221.2	220.6	222.8	38.9	39.6	39.6	180.7	183.6	185.7
Jackson .....	19.7	20.0	20.2	11.1	11.2	11.3	41.2	41.9	42.2
<b>Missouri</b> .....	425.6	412.1	408.0	139.6	140.9	141.7	504.6	494.3	502.7
Kansas City .....	119.2	114.5	114.1	55.2	54.4	54.7	179.3	179.1	180.3
St. Joseph .....	9.0	9.1	9.0	2.1	2.0	2.0	8.7	8.5	8.5
St. Louis .....	223.5	217.6	212.9	72.7	73.1	74.1	256.5	255.8	258.1
Springfield .....	20.1	19.0	19.1	6.4	6.4	6.5	27.5	28.1	28.5
<b>Montana</b> .....	20.1	20.7	20.7	20.3	19.9	20.0	71.1	70.9	70.8
<b>Nebraska</b> .....	85.1	82.4	84.1	42.3	42.9	43.0	167.4	169.3	171.3
Lincoln .....	12.6	12.9	12.9	5.9	5.8	5.8	24.9	24.9	25.1
Omaha .....	32.1	31.9	31.5	22.5	23.2	23.4	74.5	75.5	76.2
<b>Nevada</b> .....	21.8	22.9	23.0	25.9	27.0	27.2	92.2	96.8	98.0
Las Vegas .....	8.0	8.4	8.6	14.7	15.5	15.7	53.7	56.5	57.0
Reno .....	8.0	8.4	8.4	8.4	8.6	8.6	27.4	28.6	28.9
<b>New Hampshire</b> ..	118.8	117.6	117.2	16.1	17.4	17.4	115.4	122.5	123.6
Nashua .....	35.7	35.2	35.3	2.1	2.2	2.1	18.5	20.4	20.5
Portsmouth-Dover-Rochester,NH-ME ..	20.9	20.1	20.0	2.7	2.7	2.8	25.3	26.9	27.5
<b>New Jersey</b> .....	693.6	687.6	684.1	229.4	230.5	231.0	817.4	833.6	844.0
Atlantic City .....	8.4	8.2	8.2	6.0	6.0	6.1	30.7	28.9	32.0
Bergen-Passaic .....	164.7	160.5	159.4	28.4	28.3	28.7	181.5	185.3	185.0
Camden .....	75.5	74.7	73.8	17.2	17.4	17.6	106.4	106.3	107.3
Jersey City .....	51.6	52.2	52.2	30.5	30.5	30.0	55.8	58.5	59.6
Middlesex-Somerset-Hunterdon ..	111.9	113.7	113.4	38.9	40.2	40.0	117.4	118.6	119.7
Monmouth-Ocean .....	30.7	30.3	29.8	15.3	16.0	15.9	81.4	84.7	86.4
Newark .....	187.6	187.1	186.2	79.5	80.1	80.1	191.3	195.4	196.2
Trenton .....	31.6	32.0	32.1	6.0	6.3	6.4	29.7	31.0	31.2
Vineland-Millville-Bridgeton ..	14.9	15.1	14.8	2.1	2.1	2.1	10.7	11.0	11.1

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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Maryland</b> .....	115.4	118.9	119.5	495.2	516.4	523.2	398.3	396.0	397.9
Baltimore MSA .....	70.4	73.4	73.7	260.9	266.8	269.1	206.9	207.2	208.6
Baltimore City .....	44.1	45.2	45.5	132.4	136.4	137.4	89.1	87.5	87.5
Suburban Maryland-D.C. ....	37.4	39.2	39.4	193.2	200.4	202.5	153.6	158.0	158.5
<b>Massachusetts</b> .....	198.5	210.5	213.2	818.9	850.1	859.2	392.7	391.9	393.8
Boston .....	137.4	143.7	145.1	537.9	555.8	559.2	196.6	198.4	198.7
Brockton .....	3.0	3.1	3.2	14.6	14.9	15.0	11.7	12.0	12.0
Fall River .....	2.6	2.9	2.8	10.2	10.7	10.6	6.5	6.5	6.5
Fitchburg-Leominster .....	1.5	1.6	1.6	7.1	7.0	7.1	4.8	4.5	4.5
Lawrence-Haverhill .....	5.7	6.0	6.2	30.8	31.2	32.1	20.6	20.0	19.8
Lowell .....	3.8	4.2	4.3	18.9	20.3	20.5	13.4	13.1	13.2
New Bedford .....	2.4	2.5	2.5	11.8	12.1	12.2	9.6	9.2	9.0
Pittsfield .....	2.1	2.2	2.2	9.2	9.5	10.0	4.7	4.6	4.7
Springfield .....	15.1	15.8	16.0	54.2	57.2	57.4	37.4	38.5	38.6
Worcester .....	12.3	12.8	13.0	46.0	48.3	48.7	23.5	23.8	24.0
<b>Michigan</b> .....	167.1	176.2	177.2	779.9	794.6	801.8	608.6	618.0	617.1
Ann Arbor .....	4.2	4.6	4.6	31.0	32.5	32.4	50.8	52.4	52.1
Battle Creek .....	3.7	3.7	3.7	11.2	11.4	11.5	11.4	11.5	11.5
Benton Harbor .....	2.3	2.5	2.5	14.1	14.2	14.1	8.6	8.7	8.7
Detroit .....	97.6	102.1	102.8	440.5	456.0	462.9	235.8	243.2	244.1
Flint .....	6.0	6.4	6.3	31.5	32.4	32.5	22.9	24.3	24.1
Grand Rapids .....	13.1	13.5	13.4	61.2	63.2	62.8	30.4	31.6	31.0
Jackson .....	1.6	1.5	1.5	9.1	9.3	9.3	9.1	9.3	9.4
Kalamazoo .....	4.4	4.8	4.8	22.2	23.0	23.1	16.9	17.3	17.6
Lansing-East Lansing .....	10.5	11.2	11.3	34.1	36.1	37.1	65.0	68.1	67.5
Muskegon .....	1.4	1.4	1.4	10.9	11.3	11.3	8.6	8.9	8.7
Saginaw-Bay City-Midland .....	6.0	5.9	6.0	30.5	30.8	31.8	21.4	22.3	22.2
<b>Minnesota</b> .....	114.1	118.9	119.3	444.4	455.7	461.9	314.4	321.6	323.3
Duluth .....	3.1	3.1	3.1	19.6	19.5	19.6	18.7	18.6	18.6
Minneapolis-St. Paul .....	87.7	91.9	92.2	302.4	307.9	312.2	168.1	172.6	173.6
Rochester .....	1.6	1.6	1.6	21.9	22.8	23.0	5.8	6.1	6.1
St. Cloud .....	2.3	2.4	2.4	13.9	13.2	13.1	12.6	12.3	12.3
<b>Mississippi</b> .....	36.8	38.1	38.4	134.2	138.1	138.4	192.5	194.7	195.1
Jackson .....	13.4	14.0	14.1	36.1	37.1	37.5	38.8	39.1	39.2
<b>Missouri</b> .....	127.3	132.1	133.8	484.2	494.9	502.0	345.1	352.9	354.6
Kansas City .....	55.3	57.0	57.0	160.6	162.5	164.0	109.7	111.9	112.3
St. Joseph .....	1.9	1.8	1.8	7.0	6.8	6.8	5.7	5.8	5.8
St. Louis .....	69.1	71.9	72.5	270.2	277.9	281.1	141.3	136.8	137.3
Springfield .....	5.2	5.1	5.3	26.1	26.8	27.0	13.1	13.8	13.8
<b>Montana</b> .....	12.9	12.9	12.8	61.1	62.5	62.8	71.8	71.7	72.3
<b>Nebraska</b> .....	46.7	48.5	48.5	145.5	147.8	148.3	137.3	139.4	140.0
Lincoln .....	7.6	7.9	7.9	22.2	23.1	23.1	30.2	30.2	30.5
Omaha .....	28.4	29.8	29.9	76.3	75.8	76.0	44.1	44.1	43.9
<b>Nevada</b> .....	22.1	23.6	23.8	203.8	215.6	219.8	62.4	64.6	64.7
Las Vegas .....	13.2	14.2	14.3	121.6	131.5	134.4	31.3	32.5	32.7
Reno .....	6.6	7.0	7.0	50.5	51.2	52.3	15.9	16.4	16.4
<b>New Hampshire</b> .....	27.6	29.6	30.2	103.7	108.9	108.4	62.8	63.5	63.7
Nashua .....	3.1	3.4	3.5	15.9	16.2	16.4	6.1	6.1	6.1
Portsmouth-Dover-Rochester,NH-ME .....	5.6	6.1	6.2	17.7	18.3	19.1	24.8	24.9	24.9
<b>New Jersey</b> .....	205.8	214.2	215.9	824.6	842.5	860.5	540.3	546.9	548.8
Atlantic City .....	6.5	6.6	6.7	65.1	68.0	70.9	25.0	25.5	25.6
Bergen-Passaic .....	33.8	36.2	36.8	143.1	144.0	146.9	65.9	66.7	67.0
Camden .....	21.3	22.7	22.9	93.9	96.0	98.0	71.3	74.6	74.6
Jersey City .....	10.0	10.4	10.4	40.7	42.1	42.8	40.1	40.6	40.8
Middlesex-Somerset-Hunterdon .....	32.3	33.2	33.3	94.2	98.3	100.5	71.9	72.2	73.0
Monmouth-Ocean .....	16.2	17.1	17.1	79.2	79.6	82.5	59.6	60.4	61.2
Newark .....	72.5	75.3	75.4	235.7	240.3	242.4	134.9	135.4	136.1
Trenton .....	8.6	8.8	8.9	53.4	55.5	55.8	52.6	54.4	54.5
Vineland-Millville-Bridgeton .....	2.8	2.9	2.9	9.5	9.8	10.0	11.2	11.3	11.4

See footnotes at end of table.



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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>New Mexico</b> .....	526.3	529.6	532.7	16.5	14.3	14.4	35.1	33.1	34.0
Albuquerque .....	226.4	230.7	231.6	.2	.2	.2	16.8	16.9	17.0
Las Cruces .....	40.1	40.4	40.5	.1	.1	.1	2.6	2.6	2.7
Santa Fe .....	51.6	54.0	54.0	.1	.1	.1	3.1	3.1	3.3
<b>New York</b> .....	7,844.6	7,961.2	8,030.8	5.9	5.4	5.8	293.6	292.3	317.3
Albany-Schenectady-Troy .....	390.1	393.9	397.1	.4	.2	.3	15.5	15.5	17.6
Binghamton .....	117.1	117.4	118.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.7	4.4	4.9
Buffalo .....	417.4	423.0	425.7	.4	.3	.4	13.6	11.9	13.8
Elmira .....	35.3	36.8	37.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.1	1.3
Glens Falls .....	42.5	43.4	44.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.5	1.8
Nassau-Suffolk .....	1,095.7	1,104.8	1,117.3	.2	.2	.2	54.3	51.3	55.3
New York PMSA .....	4,036.8	4,087.0	4,099.0	1.4	1.3	1.3	142.4	141.5	147.0
New York City .....	3,523.7	3,572.2	3,579.1	.8	.8	.7	110.9	111.7	115.1
Niagara Falls .....	76.7	76.8	77.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.0	2.4
Orange County .....	95.8	96.4	98.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	3.9	4.4
Poughkeepsie .....	114.9	114.7	116.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.6	5.7	6.2
Rochester .....	453.0	450.7	455.7	.8	.8	.8	14.7	14.4	15.3
Rockland County .....	94.9	95.3	96.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.6	4.4	4.4
Syracuse .....	290.6	292.9	294.9	.2	.2	.2	14.2	12.7	12.9
Utica-Rome .....	117.3	117.5	118.3	.1	.1	.2	3.2	2.6	3.1
Westchester County .....	401.2	402.3	406.6	.3	.3	.3	25.8	24.3	26.2
<b>North Carolina</b> .....	2,713.8	2,787.7	2,807.1	4.7	4.8	4.8	154.9	158.6	163.0
Asheville .....	75.5	74.8	75.7	.1	.1	.1	3.8	3.6	3.6
Charlotte-Gastonia-Rock Hill .....	542.1	555.4	559.2	.3	.3	.3	31.1	31.4	32.5
Greensboro-Winston-Salem-High Point .....	448.4	452.4	454.2	.3	.3	.3	24.1	23.3	24.0
Raleigh-Durham .....	367.8	375.6	379.0	.4	.3	.4	23.6	23.9	24.4
<b>North Dakota</b> .....	247.3	245.1	248.6	4.8	3.6	3.8	8.9	7.7	8.6
Bismarck .....	35.6	36.0	36.6	.2	.2	.2	1.3	1.2	1.4
Fargo-Moorhead .....	67.6	69.0	69.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	2.5	2.8
Grand Forks .....	28.6	28.9	29.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.1	1.2
<b>Ohio</b> .....	4,446.7	4,492.3	4,560.1	22.6	20.5	20.5	151.3	145.6	160.7
Akron .....	259.0	260.5	263.9	.6	.6	.6	8.1	7.9	9.0
Canton .....	151.1	151.7	153.9	1.1	1.0	1.0	4.8	4.9	5.7
Cincinnati .....	644.9	657.2	671.3	.4	.3	.3	24.7	25.3	27.2
Cleveland .....	874.0	881.0	893.2	1.2	.9	.9	24.4	22.9	25.1
Columbus .....	624.3	642.5	650.9	.9	.9	.9	22.8	23.4	25.7
Dayton-Springfield .....	418.3	426.2	431.9	.4	.4	.4	13.8	15.0	16.6
Toledo .....	271.2	278.7	282.6	.2	.1	.2	9.0	9.0	9.7
Youngstown-Warren .....	186.7	188.6	190.9	.6	.5	.5	6.3	6.1	7.2
<b>Oklahoma</b> .....	1,144.4	1,124.4	1,127.5	55.8	52.7	52.9	39.2	38.5	39.4
Enid .....	23.3	21.4	21.5	1.4	1.2	1.2	.8	.8	.8
Lawton .....	34.0	32.6	32.8	.2	.2	.2	1.3	1.3	1.3
Oklahoma City .....	417.8	399.6	400.2	13.6	11.8	11.8	13.5	12.9	13.4
Tulsa .....	299.6	299.2	299.4	18.0	16.6	16.7	12.0	12.4	12.8
<b>Oregon</b> .....	1,046.6	1,066.7	1,077.0	1.5	1.2	1.3	33.6	29.0	31.6
Eugene-Springfield .....	98.5	100.9	100.8	.2	.1	.1	2.6	2.7	2.8
Portland .....	525.8	536.6	541.6	.6	.5	.6	18.4	16.4	17.3
Salem .....	89.1	89.9	90.8	.1	.1	.1	2.9	2.5	2.6
<b>Pennsylvania</b> .....	4,772.6	4,805.6	4,878.3	34.2	31.1	31.8	193.3	188.3	211.7
Allentown-Bethlehem .....	261.5	263.7	267.0	.5	.5	.5	10.1	10.7	11.7
Altoona .....	48.6	48.9	49.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.3	2.2	2.6
Beaver County .....	51.1	49.4	50.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.5	3.6	3.9
Erie .....	109.0	108.1	109.4	.3	.3	.3	2.8	2.7	3.0
Harrisburg-Lebanon-Carlisle .....	279.9	286.5	290.2	.4	.4	.4	10.7	10.8	11.7
Johnstown .....	75.8	75.6	77.2	3.9	3.8	3.8	2.5	2.1	2.7
Lancaster .....	170.9	175.8	178.6	.4	.3	.4	8.8	9.4	9.8
Philadelphia PMSA .....	2,083.0	2,121.1	2,145.3	1.2	1.2	1.2	89.5	92.8	99.3
Philadelphia City .....	762.1	766.6	774.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	18.1	17.3	18.4
Pittsburgh .....	840.7	840.0	848.2	6.8	6.5	6.6	38.4	38.6	40.8

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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>New Mexico</b> .....	36.9	37.4	37.7	29.5	28.7	28.9	124.5	126.3	127.1
Albuquerque .....	19.5	19.4	19.5	12.2	12.4	12.4	57.4	58.5	58.7
Las Cruces .....	3.3	3.5	3.3	1.3	1.3	1.4	7.5	7.7	7.7
Santa Fe .....	1.6	1.6	1.6	1.3	1.2	1.2	9.7	10.3	10.5
<b>New York</b> .....	1,256.0	1,224.0	1,220.4	401.5	403.8	403.7	1,647.1	1,677.5	1,694.4
Albany-Schenectady-Troy .....	50.9	48.5	47.9	15.7	16.3	16.3	82.5	84.2	84.5
Binghamton .....	38.3	37.0	36.9	4.1	4.1	4.1	24.3	25.2	25.5
Buffalo .....	76.6	75.3	75.4	21.2	21.4	21.7	104.0	106.5	107.1
Elmira .....	6.7	7.0	7.4	1.2	1.2	1.2	9.9	10.3	10.5
Glens Falls .....	9.9	10.3	10.4	1.3	1.3	1.3	9.5	10.1	10.3
Nassau-Suffolk .....	179.8	179.8	178.4	46.4	47.9	48.1	293.0	295.7	300.9
New York PMSA .....	477.9	471.9	467.9	243.6	241.7	241.1	756.9	757.0	757.9
New York City .....	392.4	386.7	382.9	218.5	216.4	215.8	634.3	633.8	634.0
Niagara Falls .....	24.4	23.9	23.8	3.5	3.3	3.5	17.1	17.4	17.7
Orange County .....	14.9	14.5	14.7	5.6	5.7	5.7	24.6	25.7	26.0
Poughkeepsie .....	32.3	30.6	30.6	3.3	3.3	3.4	20.7	21.2	21.4
Rochester .....	140.9	133.4	133.8	13.8	13.9	14.0	94.3	96.2	97.2
Rockland County .....	15.7	15.9	15.9	4.1	4.2	4.3	22.5	22.7	22.8
Syracuse .....	54.6	53.5	53.2	16.6	16.8	17.0	68.2	69.7	70.9
Utica-Rome .....	24.7	23.6	23.3	4.6	4.6	4.7	25.0	25.7	26.2
Westchester County .....	67.9	67.3	67.3	20.3	20.4	20.5	95.9	96.2	96.7
<b>North Carolina</b> .....	826.2	838.5	839.7	131.4	133.3	133.0	595.2	616.6	620.6
Asheville .....	20.6	19.8	19.9	3.5	3.5	3.6	17.0	16.8	16.9
Charlotte-Gastonia-Rock Hill .....	147.1	150.0	149.9	46.1	47.7	48.1	127.8	130.5	131.6
Greensboro-Winston-Salem-High Point .....	151.7	151.5	151.0	24.3	25.0	24.9	98.6	101.2	101.4
Raleigh-Durham .....	59.4	57.7	57.9	17.3	18.2	18.2	74.4	76.0	76.4
<b>North Dakota</b> .....	15.0	15.3	15.6	15.7	15.6	15.6	66.7	65.2	66.5
Bismarck .....	1.9	1.8	1.8	2.8	2.7	2.7	9.6	9.5	9.7
Fargo-Moorhead .....	4.7	4.8	4.8	3.9	4.1	4.1	20.0	20.3	20.7
Grand Forks .....	1.5	1.7	1.8	1.5	1.4	1.3	8.0	7.9	8.1
<b>Ohio</b> .....	1,114.1	1,092.1	1,095.8	201.9	206.6	209.3	1,047.7	1,063.9	1,085.1
Akron .....	67.1	65.2	65.3	12.9	13.1	13.2	62.8	64.0	65.2
Canton .....	44.0	42.7	42.8	5.8	5.9	5.9	37.4	38.5	39.2
Cincinnati .....	147.0	143.9	147.4	33.4	33.9	34.5	161.8	168.0	170.8
Cleveland .....	206.3	203.6	203.9	40.9	40.9	41.5	210.8	212.3	215.4
Columbus .....	106.6	103.9	103.3	26.5	28.0	28.5	153.5	157.2	159.5
Dayton-Springfield .....	105.3	104.9	105.3	14.5	14.7	14.9	92.9	94.5	96.2
Toledo .....	63.7	62.5	62.4	13.7	14.2	14.4	65.1	66.5	67.8
Youngstown-Warren .....	51.7	51.4	51.5	7.5	8.0	8.0	45.8	46.0	46.9
<b>Oklahoma</b> .....	165.3	158.0	157.6	64.4	62.5	62.3	276.9	270.2	271.9
Enid .....	1.7	1.5	1.5	2.3	2.1	2.1	6.6	6.1	6.1
Lawton .....	3.5	3.3	3.3	1.3	1.3	1.3	8.8	8.3	8.4
Oklahoma City .....	51.2	48.3	48.5	20.6	20.1	20.1	105.0	96.4	96.8
Tulsa .....	51.7	49.5	49.4	22.3	22.6	22.5	71.9	72.7	73.2
<b>Oregon</b> .....	192.4	191.9	193.2	56.2	56.9	57.0	262.8	267.0	270.7
Eugene-Springfield .....	17.6	18.4	18.5	4.0	4.0	4.1	25.3	25.4	25.8
Portland .....	89.7	89.4	89.8	32.8	33.0	33.0	138.2	140.9	142.9
Salem .....	11.6	11.1	11.2	2.5	2.5	2.5	20.3	20.7	21.0
<b>Pennsylvania</b> .....	1,052.2	1,031.9	1,035.5	239.5	240.8	242.2	1,076.4	1,099.8	1,114.8
Allentown-Bethlehem .....	80.2	76.8	76.8	13.9	14.1	14.3	56.8	58.9	59.3
Altoona .....	10.9	10.8	10.9	4.8	4.9	4.9	12.1	12.4	12.5
Beaver County .....	10.9	9.8	9.8	5.2	5.0	5.0	11.0	11.0	11.2
Erie .....	35.4	34.2	33.8	4.0	3.9	3.9	22.9	23.0	23.5
Harrisburg-Lebanon-Carlisle .....	49.4	50.6	50.5	17.8	18.1	18.2	62.4	64.8	65.6
Johnstown .....	12.6	12.7	13.0	5.1	5.0	5.0	15.9	15.8	16.3
Lancaster .....	57.8	59.4	59.8	7.0	7.1	7.2	41.2	41.9	42.7
Philadelphia PMSA .....	385.7	378.6	378.2	94.6	96.5	96.5	477.5	493.1	498.1
Philadelphia City .....	100.0	97.8	97.8	44.1	45.2	45.2	146.8	148.7	149.6
Pittsburgh .....	131.9	125.8	126.4	45.3	43.2	43.7	210.7	214.4	214.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>New Mexico</b> .....	26.4	27.1	27.1	117.2	121.2	122.0	140.2	141.5	141.5
Albuquerque .....	14.1	14.5	14.8	60.8	63.0	63.2	45.4	45.8	45.8
Las Cruces .....	1.6	1.6	1.6	5.7	6.1	6.3	18.0	17.5	17.4
Santa Fe .....	2.0	2.2	2.1	12.7	13.5	13.6	21.1	22.0	21.6
<b>New York</b> .....	745.7	767.0	772.8	2,105.5	2,178.7	2,202.7	1,389.4	1,412.5	1,413.8
Albany-Schenectady-Troy .....	20.8	21.7	21.9	94.6	96.7	97.6	109.9	110.8	111.0
Binghamton .....	3.8	3.8	3.9	20.9	21.2	21.6	20.9	21.6	21.5
Buffalo .....	24.3	25.1	25.3	105.6	108.3	108.9	71.5	74.2	73.2
Elmira .....	1.2	1.2	1.2	8.7	9.2	9.4	6.4	6.7	6.4
Glens Falls .....	1.9	1.9	1.9	9.1	9.0	9.3	8.9	9.1	9.2
Nassau-Suffolk .....	69.8	73.4	73.9	272.4	274.5	279.5	179.8	182.0	181.0
New York PMSA .....	550.5	562.2	565.0	1,208.2	1,244.7	1,251.5	655.9	666.6	667.3
New York City .....	521.3	531.8	534.1	1,070.0	1,105.0	1,110.1	575.4	585.9	586.3
Niagara Falls .....	1.8	1.7	1.8	15.6	16.0	16.2	11.7	12.3	12.1
Orange County .....	4.0	4.0	4.1	20.4	20.3	20.7	22.0	22.1	22.3
Poughkeepsie .....	4.0	4.3	4.4	24.9	25.2	25.7	24.2	24.4	24.4
Rochester .....	20.4	20.5	21.0	104.9	106.5	108.6	63.3	64.9	65.2
Rockland County .....	3.7	3.7	3.9	23.0	23.2	23.4	21.2	21.2	21.4
Syracuse .....	18.7	18.7	18.9	68.9	70.1	70.8	49.3	51.1	51.1
Utica-Rome .....	6.3	6.5	6.6	24.7	24.6	24.8	28.7	29.7	29.6
Westchester County .....	24.9	26.1	26.4	110.5	111.9	113.3	55.5	55.7	55.8
<b>North Carolina</b> .....	115.8	122.8	124.5	449.1	466.4	471.8	436.6	446.8	449.6
Asheville .....	2.6	2.7	2.7	15.9	15.9	16.3	11.8	12.4	12.5
Charlotte-Gastonia-Rock Hill .....	31.8	33.9	34.3	95.6	99.5	99.8	62.2	62.1	62.6
Greensboro-Winston-Salem-High Point .....	21.3	21.9	22.2	75.9	76.9	77.4	52.1	52.4	53.0
Raleigh-Durham .....	21.0	22.7	22.8	85.1	89.0	90.5	86.6	87.7	88.5
<b>North Dakota</b> .....	12.3	12.3	12.4	59.1	59.7	60.3	64.8	65.7	65.8
Bismarck .....	1.6	1.6	1.6	10.1	10.3	10.4	8.1	8.7	8.8
Fargo-Moorhead .....	4.2	4.4	4.4	18.5	18.7	19.1	13.6	14.2	13.9
Grand Forks .....	1.1	1.1	1.2	6.1	6.3	6.4	9.2	9.4	9.3
<b>Ohio</b> .....	228.1	238.3	240.4	990.8	1,023.5	1,048.3	690.1	701.9	699.9
Akron .....	9.9	10.2	10.4	54.4	55.3	56.4	43.2	44.1	43.8
Canton .....	6.4	6.5	6.5	33.1	33.6	34.4	18.6	18.6	18.4
Cincinnati .....	37.3	39.1	39.6	153.6	158.4	162.8	86.7	88.2	88.8
Cleveland .....	50.9	53.5	54.0	223.6	229.3	235.0	115.9	117.6	117.5
Columbus .....	52.6	55.3	55.5	143.3	152.5	156.2	118.1	121.3	121.2
Dayton-Springfield .....	17.1	17.7	17.9	100.1	104.5	106.2	74.1	74.5	74.5
Toledo .....	10.9	11.4	11.5	66.4	71.7	73.5	42.2	43.2	43.1
Youngstown-Warren .....	8.0	8.3	8.4	42.5	43.2	44.0	24.2	25.1	24.3
<b>Oklahoma</b> .....	63.4	62.0	62.1	224.2	224.9	225.4	255.2	255.6	255.9
Enid .....	1.2	1.0	1.0	5.4	5.1	5.2	3.9	3.6	3.6
Lawton .....	1.5	1.5	1.5	5.8	5.4	5.4	11.6	11.3	11.4
Oklahoma City .....	26.7	26.0	25.9	86.6	86.1	85.8	100.6	98.0	97.9
Tulsa .....	17.6	17.3	17.4	68.9	70.8	70.2	37.2	37.3	37.2
<b>Oregon</b> .....	68.2	71.5	72.4	228.3	240.1	242.9	203.6	209.1	207.9
Eugene-Springfield .....	4.5	4.6	4.7	21.8	22.8	23.1	22.5	22.9	21.7
Portland .....	42.5	44.1	44.5	127.0	134.4	136.1	76.6	77.9	77.4
Salem .....	5.2	5.5	5.5	17.7	18.4	18.7	28.8	29.1	29.2
<b>Pennsylvania</b> .....	273.3	282.2	285.3	1,212.1	1,239.5	1,263.9	691.6	692.0	693.1
Allentown-Bethlehem .....	10.4	10.6	10.8	59.9	61.8	63.2	29.7	30.3	30.4
Altoona .....	1.5	1.5	1.6	9.9	10.0	10.0	7.1	7.1	7.1
Beaver County .....	1.8	1.7	1.7	10.8	10.8	11.0	7.9	7.5	7.6
Erie .....	5.0	4.9	5.0	25.0	25.3	26.0	13.6	13.8	13.9
Harrisburg-Lebanon-Carlisle .....	15.8	16.2	16.3	58.0	59.3	60.8	65.4	66.3	66.7
Johnstown .....	4.7	4.9	4.9	18.5	18.8	18.9	12.6	12.5	12.6
Lancaster .....	6.3	6.7	6.8	33.9	35.3	36.1	15.5	15.7	15.8
Philadelphia PMSA .....	149.4	156.4	157.2	585.0	602.1	614.0	300.1	300.4	300.8
Philadelphia City .....	68.5	70.3	70.5	243.7	248.1	253.8	140.9	139.2	139.6
Pittsburgh .....	50.9	52.4	53.0	251.9	256.7	259.2	104.8	104.4	104.3

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	141.8	145.6	147.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.6	5.5	6.0
Scranton-Wilkes-Barre .....	280.6	278.9	283.9	0.8	0.7	0.8	10.5	9.2	10.7
Sharon .....	40.3	40.4	41.0	.2	.2	.1	1.0	1.0	1.1
State College .....	51.6	52.0	53.5	.2	.2	.2	1.8	1.6	2.0
Williamsport .....	46.6	48.1	48.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.7	1.6	1.8
York .....	163.8	165.0	167.2	.4	.4	.4	8.1	8.0	8.6
<b>Rhode Island</b> .....	438.9	441.1	445.5	.1	.1	.1	16.8	15.8	17.4
Pawtucket-Woonsocket-Attleboro .....	129.2	130.7	132.3	.1	.1	.1	4.2	3.8	4.2
Providence .....	306.8	312.7	315.9	.1	.1	.1	12.6	14.0	15.2
<b>South Carolina</b> .....	1,338.0	1,365.1	1,379.2	1.6	1.6	1.6	88.2	88.1	89.2
Charleston .....	179.9	184.2	185.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.7	14.0	14.5
Columbia .....	214.9	215.6	217.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.1	14.6	14.9
Greenville-Spartanburg .....	294.5	302.4	302.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21.9	21.0	21.2
<b>South Dakota</b> .....	248.3	249.5	252.5	2.6	2.4	2.4	8.5	7.5	8.6
Rapid City .....	32.4	32.6	33.4	.3	.2	.3	2.0	1.8	1.9
Sioux Falls .....	61.8	62.8	63.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	1.9	2.1
<b>Tennessee</b> .....	1,911.1	1,978.1	1,994.1	7.5	6.9	7.0	87.3	93.0	96.6
Chattanooga .....	180.6	181.4	182.2	.9	.9	1.0	7.2	6.6	7.0
Johnson City-Kingsport-Bristol .....	152.5	154.7	154.6	.2	.1	.1	5.2	4.9	4.9
Knoxville .....	240.2	237.9	240.1	1.8	1.8	1.8	11.6	11.3	11.1
Memphis .....	399.9	411.1	410.7	.1	.1	.1	18.1	18.9	19.1
Nashville .....	448.8	456.7	455.5	.8	.8	.9	26.7	30.2	30.0
<b>Texas</b> .....	6,631.9	6,476.9	6,487.2	215.2	189.3	188.7	427.3	368.1	367.6
Abilene .....	51.9	50.0	50.1	2.7	2.2	2.2	2.6	2.3	2.3
Amarillo .....	78.9	77.1	77.2	1.7	1.3	1.3	3.8	3.9	3.8
Austin .....	364.5	362.2	362.3	1.1	1.0	1.0	24.2	20.4	20.1
Beaumont-Port Arthur .....	130.5	126.7	127.5	1.9	1.6	1.6	7.4	7.6	7.2
Brazoria .....	58.5	56.5	57.1	1.8	1.3	1.3	6.0	5.7	5.8
Brownsville-Harlingen .....	66.0	65.6	65.3	.1	.1	.1	2.9	2.7	2.6
Bryan-College Station .....	49.7	48.2	48.0	.8	.7	.8	2.6	2.1	2.0
Corpus Christi .....	131.2	128.9	129.1	6.7	6.0	5.9	8.8	7.6	7.5
Dallas .....	1,343.4	1,313.1	1,313.1	22.0	19.1	19.1	85.7	66.5	65.4
El Paso .....	183.1	184.0	185.4	.2	.1	.1	9.7	9.7	9.6
Ft. Worth-Arlington .....	511.8	512.7	514.6	3.9	3.4	3.4	32.2	30.1	30.5
Galveston-Texas City .....	72.6	68.9	69.6	.6	.4	.4	5.1	3.6	3.5
Houston .....	1,426.0	1,372.1	1,370.3	75.6	63.1	62.9	95.8	83.6	84.1
Killeen-Temple .....	68.2	67.7	68.1	.1	.1	.1	4.0	3.6	3.7
Laredo .....	34.9	35.3	35.1	1.8	2.0	2.0	1.3	1.3	1.3
Longview-Marshall .....	66.7	64.6	64.8	4.1	3.6	3.6	3.5	3.0	3.1
Lubbock .....	91.5	90.7	90.7	.3	.3	.3	4.3	3.2	3.0
McAllen-Edinburg-Mission .....	87.8	88.8	88.8	1.1	1.0	1.0	4.4	4.6	4.6
Midland .....	47.0	44.1	43.8	10.0	8.8	8.6	1.8	1.5	1.5
Odessa .....	47.7	43.4	43.4	7.3	6.2	6.1	3.0	2.4	2.3
San Angelo .....	37.7	36.8	36.5	.7	.6	.6	2.2	1.9	1.8
San Antonio .....	497.7	493.1	496.3	2.9	2.6	2.6	36.8	31.6	31.6
Sherman-Denison .....	38.0	37.8	37.8	.2	.1	.1	1.8	1.8	1.8
Texarkana .....	44.9	44.4	44.7	.1	.1	.1	2.1	1.4	1.4
Tyler .....	61.9	59.7	60.0	2.2	1.9	1.9	3.0	2.6	2.7
Victoria .....	28.3	27.8	28.2	2.0	1.7	1.8	2.0	1.9	2.0
Waco .....	78.5	77.9	78.1	.2	.1	.1	4.1	3.8	4.0
Wichita Falls .....	51.1	50.3	50.2	2.4	2.0	2.0	2.3	2.1	2.1
<b>Utah</b> .....	630.6	635.7	638.3	7.9	8.3	8.3	31.3	26.3	27.3
Provo-Orem .....	73.1	74.8	75.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	2.4	2.5
Salt Lake City-Ogden .....	439.1	443.7	445.1	1.5	2.6	2.6	22.3	19.0	19.8
<b>Vermont</b> .....	228.3	239.7	237.1	.4	.5	.5	13.4	13.4	13.8
Barre-Montpelier .....	30.7	32.4	31.9	.2	.2	.2	1.7	1.6	1.7
Burlington .....	70.5	72.0	73.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.8	3.5	3.8

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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	47.0	48.2	48.1	6.3	6.6	6.7	30.8	31.2	31.8
Scranton-Wilkes-Barre .....	72.6	71.1	72.2	14.6	14.8	15.2	62.3	62.4	63.2
Sharon .....	9.9	8.9	9.0	1.9	1.8	1.8	10.5	10.7	11.0
State College .....	7.3	7.3	7.3	1.2	1.3	1.3	9.3	9.4	9.8
Williamsport .....	14.9	15.8	15.9	1.8	1.8	1.8	10.3	10.7	10.7
York .....	57.8	56.9	56.9	6.9	7.1	7.2	38.7	39.0	39.4
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	118.9	120.2	119.9	14.3	14.6	14.7	96.4	96.9	98.2
Providence .....	54.9	55.9	56.0	3.4	3.6	3.7	30.1	30.3	30.8
Providence .....	74.3	75.3	75.1	10.9	11.4	11.5	65.5	67.5	68.5
<b>South Carolina</b>									
Charleston .....	363.7	364.5	364.3	55.5	56.3	56.9	287.7	296.6	302.7
Columbia .....	19.9	20.5	20.7	9.0	9.0	9.1	43.6	45.2	45.4
Columbia .....	27.8	29.0	28.9	9.9	10.3	10.4	47.4	46.2	46.5
Greenville-Spartanburg .....	97.8	98.4	98.0	10.4	10.9	11.1	65.5	69.3	69.2
<b>South Dakota</b>									
Rapid City .....	27.4	28.7	28.4	12.5	12.5	12.5	64.7	64.3	65.9
Rapid City .....	3.0	3.1	3.3	1.9	1.8	1.8	9.3	9.5	9.8
Sioux Falls .....	8.2	8.4	8.6	4.5	4.6	4.6	16.5	16.6	16.9
<b>Tennessee</b>									
Chattanooga .....	491.5	493.6	494.4	96.2	97.9	98.0	442.4	461.2	468.1
Chattanooga .....	44.0	43.7	43.9	8.5	8.6	8.6	41.3	41.3	41.3
Johnson City-Kingsport-Bristol .....	52.0	52.1	51.8	6.2	6.3	6.3	33.3	33.6	33.8
Knoxville .....	52.0	50.3	50.9	9.0	9.1	9.1	60.2	56.6	57.6
Memphis .....	51.8	52.2	51.5	34.6	36.9	37.1	109.9	110.6	111.2
Nashville .....	89.9	88.4	88.2	22.3	22.1	22.1	108.2	108.7	108.1
<b>Texas</b>									
Abilene .....	966.1	944.6	946.1	374.1	373.7	376.0	1,680.0	1,646.7	1,652.3
Abilene .....	5.1	4.7	4.7	2.6	2.5	2.5	14.4	14.1	14.1
Amarillo .....	9.7	9.8	9.9	6.2	5.5	5.5	22.9	22.6	22.7
Austin .....	40.6	39.6	39.2	11.1	11.4	11.4	81.2	80.2	80.2
Beaumont-Port Arthur .....	25.5	23.9	24.2	10.0	9.5	9.6	32.6	31.1	31.5
Brazoria .....	16.1	15.2	15.1	2.4	2.2	2.2	11.3	11.0	11.0
Brownsville-Harlingen .....	9.2	9.5	9.4	3.1	3.0	3.0	18.1	17.7	17.7
Bryan-College Station .....	3.3	2.8	2.9	1.7	1.6	1.5	11.1	10.9	11.0
Corpus Christi .....	12.1	11.9	11.8	6.9	7.2	7.1	34.3	33.9	34.4
Dallas .....	227.8	223.1	223.0	86.4	85.9	86.2	357.7	352.8	352.5
El Paso .....	35.4	34.3	34.7	9.8	9.7	9.8	44.5	45.1	45.2
Ft. Worth-Arlington .....	112.1	114.1	114.0	26.3	27.4	27.4	136.5	133.8	134.0
Galveston-Texas City .....	9.6	9.0	9.2	4.9	4.6	4.6	14.1	13.3	13.6
Houston .....	158.3	147.7	147.0	95.3	91.1	91.3	363.4	348.6	348.4
Killeen-Temple .....	8.8	8.5	8.4	2.8	2.8	2.8	16.1	15.9	16.1
Laredo .....	1.8	1.9	1.8	3.9	3.9	4.0	10.5	10.1	9.9
Longview-Marshall .....	15.4	14.9	14.9	3.1	3.1	3.1	17.5	17.0	17.2
Lubbock .....	7.5	7.3	7.4	4.8	4.5	4.5	27.0	27.5	27.7
McAllen-Edinburg-Mission .....	11.4	12.8	12.8	2.9	2.9	2.9	26.9	26.0	26.1
Midland .....	3.6	2.9	2.9	2.3	2.2	2.2	10.9	10.6	10.5
Odessa .....	4.2	3.5	3.6	2.2	2.0	2.0	14.1	12.9	13.0
San Angelo .....	5.7	5.8	5.7	3.4	3.2	3.2	9.5	9.4	9.3
San Antonio .....	48.6	45.4	45.8	18.9	18.2	18.1	128.2	129.4	130.5
Sherman-Denison .....	11.6	11.1	11.0	2.0	2.1	2.1	8.3	8.6	8.6
Texarkana .....	7.2	7.1	7.1	1.9	1.9	1.9	10.7	10.7	10.9
Tyler .....	11.6	10.9	10.8	2.9	2.7	2.7	16.5	16.0	16.3
Victoria .....	3.0	2.9	3.0	1.5	1.5	1.5	8.0	7.8	8.0
Waco .....	15.5	14.5	14.5	3.4	3.3	3.3	18.9	19.2	19.2
Wichita Falls .....	8.3	8.2	8.1	2.6	2.6	2.6	12.4	12.3	12.4
<b>Utah</b>									
Provo-Orem .....	92.4	90.7	91.6	37.3	37.3	37.2	149.0	152.5	153.5
Provo-Orem .....	11.5	10.1	10.2	2.3	2.5	2.5	15.2	15.9	16.0
Salt Lake City-Ogden .....	61.9	61.1	61.0	28.8	28.7	28.6	109.1	112.4	113.0
<b>Vermont</b>									
Barre-Montpelier .....	49.1	49.2	50.1	9.5	10.1	10.2	51.4	53.8	54.4
Barre-Montpelier .....	4.3	4.5	4.5	.8	.8	.8	6.4	7.0	6.8
Burlington .....	16.6	16.4	16.7	3.0	3.0	3.1	15.8	16.4	16.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	7.1	7.6	7.7	28.1	29.2	29.6	16.9	17.3	17.2
Scranton—Wilkes-Barre .....	11.8	12.2	12.5	65.6	66.7	67.6	42.4	41.8	41.7
Sharon .....	1.3	1.4	1.4	10.3	11.0	11.3	5.2	5.4	5.3
State College .....	1.5	1.6	1.6	8.7	9.0	9.2	21.6	21.6	22.1
Williamsport .....	2.2	2.2	2.2	9.3	9.4	9.6	6.4	6.6	6.6
York .....	4.7	5.0	5.1	29.1	30.4	31.3	18.1	18.2	18.3
<b>Rhode Island</b>									
.....	24.7	25.1	25.1	109.0	109.7	111.4	58.7	58.7	58.7
Pawtucket—Woonsocket—Attleboro .....	3.6	3.5	3.6	23.2	23.6	24.0	9.7	9.9	9.9
Providence .....	20.6	21.5	21.5	78.8	79.2	80.3	44.0	43.7	43.7
<b>South Carolina</b>									
.....	60.6	63.0	63.9	221.9	229.5	235.3	258.8	265.5	265.3
Charleston .....	8.5	8.7	8.7	35.7	37.3	37.7	49.4	49.4	49.7
Columbia .....	17.3	17.4	17.5	39.1	39.7	40.2	59.0	58.1	58.2
Greenville—Spartanburg .....	11.5	11.5	11.5	47.3	49.2	49.9	39.9	41.8	41.4
<b>South Dakota</b>									
.....	14.1	14.2	14.2	59.3	60.2	60.4	59.4	59.9	60.0
Rapid City .....	1.7	1.6	1.7	7.9	7.9	8.0	6.4	6.7	6.7
Sioux Falls .....	6.0	5.8	5.8	16.8	17.9	17.7	7.4	7.5	7.5
<b>Tennessee</b>									
.....	93.0	93.6	94.3	376.6	401.9	405.2	316.7	330.0	330.5
Chattanooga .....	10.8	11.8	12.0	35.4	35.1	34.9	32.4	33.4	33.5
Johnson City—Kingsport—Bristol .....	4.9	4.8	4.9	26.5	26.7	26.6	24.3	26.2	26.2
Knoxville .....	8.7	8.4	8.4	48.7	49.4	50.0	48.2	51.0	51.2
Memphis .....	22.6	23.4	23.3	92.5	98.0	97.6	70.3	71.0	70.8
Nashville .....	30.3	30.1	30.0	105.5	109.1	108.7	65.1	67.3	67.5
<b>Texas</b>									
.....	448.9	440.5	439.5	1,377.3	1,362.8	1,365.1	1,143.0	1,151.2	1,151.9
Abilene .....	2.6	2.6	2.6	13.5	13.3	13.4	8.4	8.3	8.3
Amarillo .....	4.5	4.4	4.2	16.0	16.1	16.4	14.1	13.5	13.4
Austin .....	25.6	25.4	25.4	83.0	83.8	84.1	97.7	100.4	100.9
Beaumont—Port Arthur .....	5.5	5.5	5.4	27.6	27.4	27.9	20.0	20.1	20.1
Brazoria .....	2.2	2.0	2.1	7.8	7.7	8.0	10.9	11.4	11.6
Brownsville—Harlingen .....	3.5	3.4	3.4	13.3	13.7	13.6	15.8	15.5	15.5
Bryan—College Station .....	1.9	1.7	1.7	8.1	7.8	7.9	20.2	20.6	20.2
Corpus Christi .....	6.9	6.9	6.9	27.8	28.1	28.2	27.7	27.3	27.3
Dallas .....	131.8	130.7	130.9	289.3	285.2	286.4	142.7	149.8	149.6
El Paso .....	9.7	9.8	10.0	34.9	35.3	35.9	38.9	40.0	40.1
Ft. Worth—Arlington .....	28.8	28.2	28.6	108.0	111.4	112.3	64.0	64.3	64.4
Galveston—Texas City .....	4.4	4.4	4.3	13.0	12.9	13.2	20.9	20.7	20.8
Houston .....	105.2	101.1	100.4	341.2	345.6	344.9	191.2	191.3	191.3
Killeen—Temple .....	3.2	3.0	3.0	13.4	14.0	14.1	19.8	19.8	19.9
Laredo .....	1.6	1.6	1.6	5.7	6.0	6.0	8.3	8.5	8.5
Longview—Marshall .....	3.3	3.3	3.2	11.3	11.3	11.4	8.5	8.4	8.3
Lubbock .....	5.6	5.3	5.3	20.2	20.8	20.8	21.8	21.8	21.7
McAllen—Edinburg—Mission .....	4.0	3.8	3.8	13.9	13.8	13.7	23.2	23.9	23.9
Midland .....	3.0	2.9	2.9	9.1	8.8	8.7	6.3	6.4	6.5
Odessa .....	1.7	1.6	1.7	7.6	7.1	7.0	7.6	7.7	7.7
San Angelo .....	1.8	1.8	1.8	7.7	7.5	7.6	6.7	6.6	6.5
San Antonio .....	38.4	39.1	39.3	115.4	116.7	118.4	108.5	110.1	110.0
Sherman—Denison .....	1.5	1.4	1.5	7.5	7.6	7.6	5.1	5.1	5.1
Texarkana .....	1.9	1.8	1.8	8.8	8.9	9.0	12.2	12.5	12.5
Tyler .....	3.7	3.6	3.6	13.1	13.2	13.2	8.9	8.8	8.8
Victoria .....	1.6	1.5	1.5	5.8	6.0	5.8	4.4	4.5	4.6
Waco .....	4.7	4.9	4.9	19.4	19.7	19.7	12.3	12.4	12.4
Wichita Falls .....	2.5	2.4	2.4	11.0	11.1	11.1	9.6	9.6	9.5
<b>Utah</b>									
.....	32.7	33.5	33.8	136.2	142.2	141.7	143.9	144.8	144.9
Provo—Orem .....	2.3	2.4	2.4	25.5	27.5	27.3	13.6	14.0	13.9
Salt Lake City—Ogden .....	26.9	27.5	27.6	93.1	96.3	96.9	95.5	96.0	95.6
<b>Vermont</b>									
.....	10.7	11.6	11.7	54.1	60.5	55.9	39.7	40.6	40.5
Barre—Montpelier .....	2.8	3.0	3.0	6.5	7.1	6.8	8.0	8.2	8.1
Burlington .....	3.1	3.3	3.4	16.7	17.8	18.1	11.5	11.6	11.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Virginia</b> .....	2,528.4	2,591.3	2,616.1	16.6	15.5	15.6	164.6	165.7	172.5
Bristol .....	30.0	30.6	30.9	.1	.1	.1	.9	.7	.8
Charlottesville .....	61.3	62.7	63.9	.1	.1	.1	3.3	3.5	3.6
Danville .....	38.8	38.7	38.8	.1	.1	.1	1.5	1.1	1.1
Lynchburg .....	69.8	70.6	71.3	.1	.1	.1	2.9	3.0	3.2
Norfolk-Virginia Beach-Newport News .....	524.2	532.3	537.1	.1	.1	.1	37.0	35.8	36.4
Northern Virginia .....	644.4	667.9	670.5	.5	.4	.4	46.5	44.3	45.2
Richmond-Petersburg .....	413.3	425.3	426.5	.3	.4	.3	24.9	25.9	26.3
Roanoke .....	116.5	118.5	119.2	.1	.1	.1	6.4	6.5	6.7
<b>Washington</b> .....	1,757.1	1,790.4	1,810.0	3.0	2.9	2.9	81.8	83.2	86.2
Seattle .....	878.5	903.5	909.8	.7	.6	.6	43.1	42.7	44.2
<b>West Virginia</b> .....	593.9	590.7	597.1	41.1	36.8	36.8	21.8	20.9	23.2
Charleston .....	106.9	106.6	107.3	2.5	2.4	2.3	4.2	4.2	4.6
Huntington-Ashland .....	100.7	100.1	101.1	1.1	1.0	1.0	3.6	3.3	3.6
Parkersburg-Marietta .....	58.2	58.6	59.7	.8	.8	.8	2.6	2.5	2.8
Wheeling .....	56.9	56.3	56.9	2.4	2.4	2.4	1.6	1.4	1.5
<b>Wisconsin</b> .....	1,994.0	2,007.5	2,035.1	1.9	1.6	2.1	59.8	55.8	61.1
Appleton-Oshkosh-Neenah .....	138.3	139.4	140.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.3	4.9	5.3
Eau Claire .....	52.4	55.3	56.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.2	1.4
Green Bay .....	90.2	90.6	91.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.8	2.7	2.6
Janesville-Beloit .....	53.8	52.4	52.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.1	1.2	1.1
Kenosha .....	37.1	38.4	39.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.0	1.0	.9
La Crosse .....	48.5	48.9	50.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.0	1.2
Madison .....	190.3	191.8	194.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.0	4.7	5.4
Milwaukee .....	669.3	678.5	684.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.2	19.1	20.0
Racine .....	67.4	68.2	68.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	2.1	2.2
Sheboygan .....	43.6	44.9	45.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.0	1.0
Wausau .....	43.9	44.8	45.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.4	1.4
<b>Wyoming</b> .....	199.2	185.4	186.4	19.7	17.3	17.3	19.2	11.1	11.7
<b>Puerto Rico</b> .....	709.1	727.3	728.4	.7	.9	.9	25.5	32.3	33.0
Caguas .....	43.4	44.0	44.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Mayaguez .....	51.4	51.6	50.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Ponce .....	45.3	45.8	46.2	.1	.1	.1	2.5	3.4	3.6
San Juan .....	437.5	447.7	448.3	.4	.5	.5	19.8	24.9	25.4
<b>Virgin Islands</b> .....	37.4	38.4	38.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.1	1.8

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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Virginia</b> .....	422.8	422.6	422.8	135.0	140.1	140.5	565.3	586.1	595.1
Bristol .....	9.4	9.6	9.6	1.1	1.2	1.2	7.8	8.3	8.5
Charlottesville .....	8.5	8.1	8.5	2.1	2.1	2.2	11.7	11.6	11.8
Danville .....	16.2	16.5	16.4	1.0	1.0	1.0	8.0	7.9	8.0
Lynchburg .....	23.8	24.2	24.2	3.0	2.9	2.9	13.1	13.2	13.5
Norfolk-Virginia Beach-Newport News .....	68.9	66.3	66.0	25.5	25.6	25.6	125.0	131.6	134.4
Northern Virginia .....	34.3	34.4	34.0	44.7	47.4	47.9	149.3	155.4	155.3
Richmond-Petersburg .....	62.5	63.5	63.2	22.1	22.2	22.2	99.4	100.7	101.0
Roanoke .....	20.7	20.7	20.7	9.0	8.7	8.7	30.7	32.0	32.4
<b>Washington</b> .....	303.5	302.5	305.7	94.6	95.4	96.1	427.0	436.2	443.5
Seattle .....	169.7	176.7	176.9	57.1	57.2	57.4	215.5	222.9	225.0
<b>West Virginia</b> .....	86.1	86.1	86.9	37.2	35.6	35.7	135.3	134.3	137.1
Charleston .....	12.4	12.1	12.1	8.4	8.1	8.2	28.0	27.7	28.1
Huntington-Ashland .....	19.5	19.3	19.2	7.5	7.1	7.2	25.5	25.3	25.9
Parkersburg-Marietta .....	14.3	14.1	14.3	2.0	1.9	1.9	13.7	14.1	14.2
Wheeling .....	7.2	6.4	6.9	3.1	3.0	2.9	15.2	15.6	15.6
<b>Wisconsin</b> .....	507.2	507.2	511.4	93.2	91.1	92.3	466.3	472.6	481.3
Appleton-Oshkosh-Neenah .....	48.9	48.3	48.3	5.3	5.3	5.3	28.9	29.5	30.1
Eau Claire .....	9.8	10.0	10.2	2.9	3.0	3.2	14.5	16.2	16.4
Green Bay .....	23.8	23.5	23.6	6.4	6.4	6.5	23.2	23.8	24.0
Janesville-Beloit .....	17.8	16.2	16.4	2.0	1.9	1.9	13.1	13.3	13.7
Kenosha .....	11.0	12.2	12.9	1.4	1.3	1.4	8.2	8.3	8.5
La Crosse .....	10.2	10.0	10.2	2.3	2.2	2.2	13.0	13.7	14.1
Madison .....	20.5	21.5	21.6	6.4	6.5	6.6	40.7	42.4	42.7
Milwaukee .....	168.2	166.0	166.1	34.7	34.6	35.0	151.5	156.3	158.4
Racine .....	24.4	24.2	24.1	2.3	2.3	2.4	15.5	16.1	16.3
Sheboygan .....	18.2	19.0	19.1	1.4	1.4	1.4	8.4	8.5	8.8
Wausau .....	11.5	12.1	12.4	2.7	2.7	2.8	11.0	11.2	11.5
<b>Wyoming</b> .....	7.5	7.6	7.7	13.9	13.8	13.8	44.4	43.1	43.2
<b>Puerto Rico</b> .....	151.6	150.8	150.7	15.8	15.2	14.4	123.1	125.6	126.1
Caguas .....	14.9	15.4	15.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.1	8.0	8.0
Mayaguez .....	20.4	20.1	19.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.7	6.9	6.9
Ponce .....	9.5	8.7	8.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.1	7.5	7.6
San Juan .....	65.5	64.3	64.3	12.1	11.1	10.5	85.4	86.7	87.0
<b>Virgin Islands</b> .....	1.7	1.8	1.9	2.4	2.5	2.5	8.6	8.9	9.0

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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Virginia</b> .....	128.0	134.5	135.5	572.3	593.7	600.4	523.8	533.0	533.8
Bristol .....	.9	.9	.9	4.5	4.5	4.5	5.2	5.3	5.3
Charlottesville .....	2.9	3.1	3.2	10.7	10.9	11.1	22.0	23.4	23.5
Danville .....	1.2	1.1	1.1	5.7	5.7	5.8	5.3	5.3	5.3
Lynchburg .....	3.3	3.3	3.3	14.0	14.4	14.6	9.7	9.5	9.6
Norfolk-Virginia Beach-Newport News .....	23.6	24.4	24.7	118.0	121.9	123.1	126.1	126.6	126.8
Northern Virginia .....	38.6	42.3	42.4	194.8	203.5	204.7	135.7	140.2	140.7
Richmond-Petersburg .....	32.5	34.3	34.7	83.5	87.9	88.5	88.1	90.6	90.3
Roanoke .....	7.9	8.1	8.1	26.2	26.7	26.8	15.3	15.7	15.6
<b>Washington</b> ..	104.2	106.9	107.4	391.1	405.1	408.7	351.9	358.2	359.5
Seattle .....	65.5	66.7	66.9	198.7	206.4	208.4	128.2	130.3	130.4
<b>West Virginia</b> .....	23.6	24.2	24.2	121.1	122.8	124.0	127.7	130.0	129.2
Charleston .....	6.0	6.0	6.0	24.5	24.9	24.9	20.9	21.2	21.1
Huntington-Ashland .....	4.2	4.4	4.4	19.8	20.3	20.5	19.5	19.4	19.3
Parkersburg-Marietta .....	2.2	2.1	2.1	13.2	13.1	13.6	9.4	10.0	10.0
Wheeling .....	2.6	2.6	2.6	15.6	15.5	15.6	9.2	9.4	9.4
<b>Wisconsin</b> .....	106.3	109.5	110.3	427.9	436.8	441.9	331.3	333.0	334.6
Appleton-Oshkosh-Neenah .....	6.9	7.2	7.2	25.9	27.0	27.3	16.9	17.2	17.0
Eau Claire .....	1.8	1.9	1.9	11.1	12.1	12.4	10.9	10.9	10.7
Green Bay .....	3.2	3.3	3.3	19.3	20.0	20.2	10.4	10.8	10.9
Janesville-Beloit .....	1.6	1.7	1.7	11.1	11.0	11.4	7.0	7.1	6.8
Kenosha .....	1.1	1.1	1.1	8.2	8.2	8.3	6.3	6.3	6.4
La Crosse .....	1.5	1.4	1.5	12.8	13.1	13.4	7.6	7.4	7.7
Madison .....	16.6	17.2	17.3	40.2	40.8	41.4	59.8	58.4	59.4
Milwaukee .....	45.6	47.0	47.4	168.6	173.6	175.4	81.2	81.7	81.6
Racine .....	2.1	2.1	2.1	13.0	13.2	13.2	8.2	8.2	8.1
Sheboygan .....	2.0	2.0	2.0	6.9	7.3	7.3	5.4	5.6	5.6
Wausau .....	3.3	3.4	3.4	7.8	7.9	7.9	6.2	6.0	6.2
<b>Wyoming</b> .....	8.0	7.9	7.9	31.9	31.6	31.7	54.5	52.9	53.2
<b>Puerto Rico</b> .....	32.2	33.4	33.4	98.2	102.7	102.7	261.8	266.4	267.2
Caguas .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.9	14.9	14.9
Mayaguez .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.2	16.2	16.2
Ponce .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.0	7.7	7.6	15.3	15.4	15.6
San Juan .....	26.1	27.1	27.2	71.7	74.5	74.4	156.4	158.6	159.0
<b>Virgin Islands</b> .....	1.5	1.6	1.6	7.8	8.8	8.8	13.1	12.7	12.7

<sup>1</sup> Not available.

<sup>2</sup> Combined with construction.

<sup>P</sup> = preliminary.

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

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**C-1. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry, 1964 to date**

Year and month	Total private <sup>1</sup>			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
<b>Annual averages</b>									
1964 .....	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965 .....	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966 .....	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967 .....	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968 .....	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969 .....	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970 .....	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971 .....	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972 .....	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973 .....	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974 .....	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975 .....	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976 .....	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977 .....	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978 .....	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979 .....	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980 .....	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981 .....	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982 .....	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983 .....	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984 .....	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985 .....	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986 .....	34.8	8.76	304.85	42.2	12.44	524.97	37.4	12.47	466.38
<b>Monthly data, not seasonally adjusted</b>									
<b>1986:</b>									
May .....	34.7	\$8.73	\$302.93	41.8	\$12.42	\$519.16	37.9	\$12.37	\$468.82
June .....	34.9	8.72	304.33	41.9	12.49	523.33	37.8	12.34	466.45
July .....	34.9	8.70	303.63	41.4	12.49	517.09	38.2	12.34	471.39
August .....	35.1	8.70	305.37	42.3	12.51	529.17	38.3	12.44	476.45
September .....	34.8	8.82	306.94	42.1	12.52	527.09	38.5	12.59	484.72
October .....	34.7	8.82	306.05	42.1	12.50	526.25	37.9	12.68	480.57
November .....	34.7	8.88	308.14	41.4	12.57	520.40	36.5	12.66	462.09
December .....	34.8	8.86	308.33	42.4	12.63	535.51	36.8	12.77	469.94
<b>1987:</b>									
January .....	34.4	8.90	306.16	42.5	12.66	538.05	37.2	12.58	467.98
February .....	34.5	8.92	307.74	42.0	12.56	527.52	36.8	12.51	460.37
March .....	34.6	8.92	308.63	41.8	12.51	522.92	37.4	12.59	470.87
April <sup>a</sup> .....	34.6	8.90	307.94	41.7	12.41	517.50	37.4	12.55	469.37
May <sup>a</sup> .....	34.8	8.92	310.42	42.2	12.39	522.86	38.7	12.61	488.01

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**C-1. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> 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
<b>Annual averages</b>										
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.61	106.49
1966 .....	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.11
1967 .....	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.88	116.06
1968 .....	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.05	122.31
1969 .....	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.85
1970 .....	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.44	137.26
1971 .....	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.5	3.65	144.18
1972 .....	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.69
1973 .....	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.3	4.08	160.34
1974 .....	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.39	170.33
1975 .....	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.7	4.73	183.05
1976 .....	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.03	194.66
1977 .....	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	209.13
1978 .....	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	228.14
1979 .....	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.93
1980 .....	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.5	6.96	267.96
1981 .....	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.56	291.06
1982 .....	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.09	309.85
1983 .....	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.55	329.18
1984 .....	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.89	342.27
1985 .....	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.16	351.74
1986 .....	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.4	9.35	359.04
<b>Monthly data, not seasonally adjusted</b>										
<b>1986:</b>										
May .....	40.6	\$9.72	\$9.34	\$394.63	39.0	\$11.58	\$451.62	38.4	\$9.30	\$357.12
June .....	40.8	9.71	9.32	396.17	39.4	11.63	458.22	38.5	9.33	359.21
July .....	40.2	9.74	9.35	391.55	39.4	11.67	459.80	38.5	9.30	358.05
August .....	40.7	9.68	9.27	393.98	39.4	11.67	459.80	38.5	9.32	358.82
September .....	41.0	9.73	9.31	398.93	39.2	11.77	461.38	38.3	9.37	358.87
October .....	40.7	9.72	9.32	395.60	39.1	11.77	460.21	38.4	9.36	359.42
November .....	41.0	9.78	9.37	400.98	39.3	11.90	467.67	38.4	9.47	363.65
December .....	41.5	9.85	9.42	408.78	39.1	11.90	465.29	38.4	9.47	363.65
<b>1987:</b>										
January .....	40.8	9.84	9.44	401.47	38.5	11.89	457.77	38.1	9.49	361.57
February .....	40.8	9.84	9.44	401.47	39.0	11.93	465.27	37.9	9.55	361.95
March .....	40.9	9.85	9.44	402.87	38.9	11.90	462.91	37.9	9.53	361.19
April <sup>a</sup> .....	40.4	9.87	9.48	398.75	38.8	11.90	461.72	38.1	9.53	363.09
May <sup>a</sup> .....	40.9	9.86	9.45	403.27	39.0	11.91	464.49	38.2	9.57	365.57

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**C-1. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> 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
<b>Annual averages</b>									
1964 .....	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
1965 .....	36.6	1.82	66.61	37.2	2.39	88.91	35.9	2.05	73.60
1966 .....	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
1967 .....	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
1968 .....	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
1969 .....	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
1970 .....	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
1971 .....	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
1972 .....	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
1973 .....	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
1974 .....	32.7	3.14	102.68	36.5	3.77	137.61	33.6	3.75	126.00
1975 .....	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
1976 .....	32.1	3.57	114.60	36.4	4.27	155.43	33.3	4.31	143.52
1977 .....	31.6	3.85	121.66	36.4	4.54	165.26	33.0	4.65	153.45
1978 .....	31.0	4.20	130.20	36.4	4.89	178.00	32.8	4.99	163.67
1979 .....	30.6	4.53	138.62	36.2	5.27	190.77	32.7	5.36	175.27
1980 .....	30.2	4.88	147.38	36.2	5.79	209.60	32.6	5.85	190.71
1981 .....	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
1982 .....	29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
1983 .....	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
1984 .....	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
1985 .....	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
1986 .....	29.2	6.03	176.08	36.4	8.35	303.94	32.5	8.16	265.20
<b>Monthly data, not seasonally adjusted</b>									
<b>1986:</b>									
May .....	29.1	\$6.01	\$174.89	36.2	\$8.31	\$300.82	32.5	\$8.10	\$263.25
June .....	29.5	6.00	177.00	36.5	8.37	305.51	32.6	8.10	264.06
July .....	29.9	5.98	178.80	36.3	8.30	301.29	32.8	8.04	263.71
August .....	29.9	5.97	178.50	36.5	8.34	304.41	32.8	8.04	263.71
September .....	29.1	6.06	176.35	36.2	8.39	303.72	32.4	8.19	265.36
October .....	29.0	6.06	175.74	36.4	8.39	305.40	32.4	8.23	266.65
November .....	29.0	6.08	176.32	36.5	8.57	312.81	32.4	8.33	269.89
December .....	29.4	6.07	178.46	36.5	8.48	309.52	32.4	8.32	269.57
<b>1987:</b>									
January .....	28.3	6.09	172.35	36.3	8.60	312.18	32.2	8.37	269.51
February .....	28.7	6.09	174.78	36.4	8.75	318.50	32.4	8.43	273.13
March .....	28.9	6.08	175.71	36.3	8.72	316.54	32.4	8.41	272.48
April <sup>p</sup> .....	29.2	6.09	177.83	36.3	8.67	314.72	32.3	8.39	271.00
May <sup>p</sup> .....	29.3	6.09	178.44	36.3	8.65	314.00	32.3	8.38	270.67

<sup>1</sup> 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.

<sup>p</sup> = preliminary.

NOTE: Data in this table have been revised to reflect March 1986 benchmarks. Thus, data beginning in April 1985 may differ slightly from those previously published. See the article in this issue for additional information.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Total private</b> .....		34.7	34.7	34.6	34.6	34.8					
<b>Mining</b> .....		42.0	41.8	41.8	41.7	42.2					
Metal mining .....	10	41.2	40.9	41.8	41.1						
Iron ores .....	101	40.6	40.4	40.4	39.7						
Copper ores .....	102	41.1	41.0	42.6	41.7						
Coal mining .....	11,12	40.3	40.2	42.0	40.8						
Bituminous coal and lignite mining .....	12	40.3	40.2	42.1	40.9						
Oil and gas extraction .....	13	42.0	41.8	41.0	41.2						
Crude petroleum, natural gas, and natural gas liquids .....	131,2	42.5	41.6	39.9	40.4						
Oil and gas field services .....	138	41.8	41.9	41.8	41.7						
Nonmetallic minerals, except fuels .....	14	45.0	45.3	44.0	44.6						
Crushed and broken stone .....	142	46.9	46.8	45.2	45.3						
<b>Construction</b> .....		37.5	37.9	37.4	37.4	38.7					
General building contractors .....	15	37.1	37.5	37.4	37.4						
Residential building construction .....	152	36.1	36.9	36.6	36.9						
Operative builders .....	153	40.3	39.6	37.2	38.1						
Nonresidential building construction .....	154	37.9	37.9	38.1	37.9						
Heavy construction contractors .....	16	41.2	41.6	41.0	40.7						
Highway and street construction .....	161	40.8	41.7	40.2	40.5						
Heavy construction, except highway .....	162	41.4	41.6	41.4	40.9						
Special trade contractors .....	17	36.6	37.0	36.5	36.5						
Plumbing, heating, and air conditioning .....	171	37.8	38.0	37.8	37.7						
Painting, paper hanging, and decorating .....	172	34.8	35.1	35.5	35.8						
Electrical work .....	173	38.5	38.5	38.5	38.2						
Masonry, stonework, and plastering .....	174	35.0	35.5	34.4	34.3						
Carpentering and flooring .....	175	34.2	34.3	35.4	34.7						
Roofing and sheet metal work .....	176	33.4	34.3	32.1	32.9						
<b>Manufacturing</b> .....		40.5	40.6	40.9	40.4	40.9	3.2	3.3	3.6	3.3	3.6
<b>Durable goods</b> .....		41.2	41.2	41.6	41.0	41.5	3.3	3.3	3.7	3.4	3.7
Lumber and wood products .....	24	40.3	40.7	40.7	40.6	41.6	3.3	3.6	3.7	3.6	
Logging camps and logging contractors .....	241	40.2	41.0	40.2	40.1	-	3.7	3.9	4.0	3.8	
Sawmills and planing mills .....	242	41.5	41.8	41.8	41.7		4.1	4.2	4.5	4.5	
Sawmills and planing mills, general .....	2421	41.7	42.0	41.8	42.1		4.3	4.5	4.6	4.8	
Hardwood dimension and flooring .....	2426	40.8	41.0	41.8	40.5		3.1	3.2	4.2	3.5	
Millwork, plywood, and structural members .....	243	40.4	40.8	41.0	41.0		3.3	3.6	3.6	3.5	
Millwork .....	2431	40.4	40.8	41.4	41.0		2.6	3.1	3.1	2.7	
Wood kitchen cabinets .....	2434	38.6	39.3	40.0	40.4		2.6	3.0	3.1	3.2	
Hardwood veneer and plywood .....	2435	41.1	40.8	41.2	41.1		3.7	3.5	4.1	4.2	
Softwood veneer and plywood .....	2436	42.7	42.2	42.4	42.7		5.0	4.8	5.1	5.1	
Wood containers .....	244	38.3	38.4	38.6	38.0		2.2	2.4	2.7	2.7	
Wood buildings and mobile homes .....	245	37.3	38.3	37.9	38.4		1.9	2.2	2.2	2.1	
Mobile homes .....	2451	37.3	38.3	37.6	37.8		1.6	1.8	1.9	1.7	
Miscellaneous wood products .....	249	39.9	40.2	40.5	40.0		3.1	3.2	3.5	3.2	
Furniture and fixtures .....	25	39.1	39.2	39.8	38.8	39.2	2.3	2.3	2.6	2.2	
Household furniture .....	251	38.5	38.5	39.9	38.8	-	2.2	2.1	2.7	2.3	
Wood household furniture .....	2511	39.3	39.3	40.3	39.3		2.4	2.4	2.8	2.5	
Upholstered household furniture .....	2512	37.2	36.8	39.1	37.9		1.4	1.1	2.2	1.7	
Metal household furniture .....	2514	40.6	39.7	42.4	40.8		3.9	3.1	4.5	3.6	
Mattresses and bedsprings .....	2515	37.4	38.5	38.7	37.2		1.9	2.0	2.8	1.8	
Office furniture .....	252	39.6	40.1	40.2	38.9		2.6	2.6	2.3	1.9	
Public building and related furniture .....	253	39.8	39.3	39.3	39.1		2.9	2.4	2.3	2.4	
Partitions and fixtures .....	254	40.5	41.4	39.4	39.1		2.6	3.0	2.4	1.9	
Miscellaneous furniture and fixtures .....	259	39.8	39.9	40.0	38.4		2.1	2.2	2.6	2.0	
Stone, clay, and glass products .....	32	42.5	42.6	42.0	42.0	42.7	4.9	5.0	4.7	4.9	
Flat glass .....	321	45.0	44.6	45.5	45.6	-	6.7	6.1	6.2	6.5	
Glass and glassware, pressed or blown .....	322	41.9	41.8	41.6	41.3		4.6	4.7	4.5	4.4	

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Total private</b> .....		\$8.73	\$8.73	\$8.92	\$8.90	\$8.92	\$302.93	\$302.93	\$308.63	\$307.94	\$310.42
<b>Mining</b> .....		12.42	12.42	12.51	12.41	12.39	521.64	519.16	522.92	517.50	522.86
Metal mining .....	10	13.47	13.40	13.04	13.21		554.96	548.06	545.07	542.93	
Iron ores .....	101	13.84	13.75	15.25	15.54		561.90	555.50	616.10	616.94	
Copper ores .....	102	13.03	12.92	11.36	11.52		535.53	529.72	483.94	480.38	
Coal mining .....	11,12	15.23	15.20	15.59	15.48		613.77	611.04	654.78	631.58	
Bituminous coal and lignite mining .....	12	15.29	15.26	15.65	15.54		616.19	613.45	658.87	635.59	
Oil and gas extraction .....	13	11.63	11.62	11.49	11.45		488.46	485.72	471.09	471.74	
Crude petroleum, natural gas, and natural gas liquids .....	131,2	13.77	13.66	14.01	13.93		585.23	568.26	559.00	562.77	
Oil and gas field services .....	138	10.38	10.38	10.01	9.98		433.88	434.92	418.42	416.17	
Nonmetallic minerals, except fuels .....	14	10.24	10.35	10.48	10.48		460.80	468.86	461.12	467.41	
Crushed and broken stone .....	142	9.71	9.86	9.78	9.78		455.40	461.45	442.06	443.03	
<b>Construction</b> .....		12.32	12.37	12.59	12.55	12.61	462.00	468.82	470.87	469.37	488.01
General building contractors .....	15	11.32	11.35	11.57	11.59		419.97	425.63	432.72	433.47	
Residential building construction .....	152	10.75	10.80	10.91	10.93		388.08	398.52	399.31	403.32	
Operative builders .....	153	9.46	9.64	10.07	10.10		381.24	381.74	374.60	384.81	
Nonresidential building construction .....	154	12.02	12.04	12.34	12.39		455.56	456.32	470.15	469.58	
Heavy construction contractors .....	16	11.80	12.00	11.80	11.84		486.16	499.20	483.80	481.89	
Highway and street construction .....	161	11.18	11.55	11.23	11.51		456.14	481.64	451.45	466.16	
Heavy construction, except highway .....	162	12.11	12.25	12.07	12.02		501.35	509.60	499.70	491.62	
Special trade contractors .....	17	12.94	12.95	13.25	13.16		473.60	479.15	483.63	480.34	
Plumbing, heating, and air conditioning .....	171	13.14	13.08	13.46	13.44		496.69	497.04	508.79	506.69	
Painting, paper hanging, and decorating .....	172	11.98	12.14	12.42	12.42		416.90	426.11	440.91	444.64	
Electrical work .....	173	14.33	14.32	14.67	14.59		551.71	551.32	564.80	557.34	
Masonry, stonework, and plastering .....	174	13.00	13.15	13.31	13.25		455.00	466.83	457.86	454.48	
Carpentering and flooring .....	175	12.49	12.50	12.53	12.60		427.16	428.75	443.56	437.22	
Roofing and sheet metal work .....	176	11.33	11.47	11.38	11.40		378.42	393.42	365.30	375.06	
<b>Manufacturing</b> .....		9.71	9.72	9.85	9.87	9.86	393.26	394.63	402.87	398.75	403.27
<b>Durable goods</b> .....		10.28	10.28	10.39	10.39	10.39	423.54	423.54	432.22	425.99	431.19
Lumber and wood products .....	24	8.31	8.35	8.28	8.35	8.42	334.89	339.85	337.00	339.01	350.27
Logging camps and logging contractors .....	241	10.92	11.04	10.47	10.77	-	438.98	452.64	420.89	431.88	-
Sawmills and planing mills .....	242	8.61	8.62	8.40	8.53		357.32	360.32	351.12	355.70	
Sawmills and planing mills, general .....	2421	9.04	9.05	8.76	8.91		376.97	380.10	366.17	375.11	
Hardwood dimension and flooring .....	2426	6.51	6.46	6.68	6.73		265.61	264.86	279.22	272.57	
Millwork, plywood, and structural members .....	243	8.18	8.19	8.30	8.30		330.47	334.15	340.30	340.30	
Millwork .....	2431	8.39	8.45	8.66	8.57		338.96	344.76	358.52	351.37	
Wood kitchen cabinets .....	2434	7.43	7.46	7.56	7.63		286.80	293.18	302.40	308.25	
Hardwood veneer and plywood .....	2435	6.76	6.80	6.81	6.80		277.84	277.44	280.57	279.48	
Softwood veneer and plywood .....	2436	9.80	9.76	9.60	9.71		418.46	411.87	407.04	414.62	
Wood containers .....	244	5.90	5.93	6.02	6.07		225.97	227.71	232.37	230.66	
Wood buildings and mobile homes .....	245	7.55	7.53	7.89	7.87		281.62	288.40	299.03	302.21	
Mobile homes .....	2451	7.57	7.56	7.95	7.97		282.36	289.55	298.92	301.27	
Miscellaneous wood products .....	249	7.24	7.28	7.24	7.28		288.88	292.66	293.22	291.20	
Furniture and fixtures .....	25	7.35	7.39	7.58	7.57	7.63	287.39	289.69	301.68	293.72	299.10
Household furniture .....	251	6.77	6.79	7.03	6.98	-	260.65	261.42	280.50	270.82	-
Wood household furniture .....	2511	6.30	6.33	6.52	6.51		247.59	248.77	262.76	255.84	
Upholstered household furniture .....	2512	7.43	7.38	7.75	7.66		276.40	271.58	303.03	290.31	
Metal household furniture .....	2514	6.73	6.93	6.92	6.86		273.24	275.12	293.41	279.89	
Mattresses and bedsprings .....	2515	7.16	7.21	7.54	7.44		267.78	277.59	291.80	276.77	
Office furniture .....	252	8.31	8.32	8.55	8.62		329.08	333.63	343.71	335.32	
Public building and related furniture .....	253	7.95	7.93	7.94	8.05		316.41	311.65	312.04	314.76	
Partitions and fixtures .....	254	8.74	8.82	9.05	9.05		353.97	365.15	356.57	353.46	
Miscellaneous furniture and fixtures .....	259	7.69	7.73	7.96	8.00		306.06	308.43	318.40	307.20	
Stone, clay, and glass products .....	32	9.99	10.03	10.13	10.24	10.25	424.58	427.28	425.46	430.08	437.68
Flat glass .....	321	14.26	14.19	14.31	14.34	-	641.70	632.87	651.11	653.90	-
Glass and glassware, pressed or blown .....	322	10.91	10.91	11.13	11.51		457.13	456.04	463.01	475.36	

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>a</sup>	May 1987 <sup>a</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>a</sup>	May 1987 <sup>a</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products—Continued											
Glass containers .....	3221	42.0	42.5	42.0	41.8		5.7	5.8	5.5	5.5	
Pressed and blown glass, nec .....	3229	41.7	41.0	41.2	40.7		3.4	3.4	3.5	3.2	
Products of purchased glass .....	323	41.6	41.8	41.6	41.3		3.0	3.1	3.7	3.6	
Cement, hydraulic .....	324	40.9	40.8	41.7	41.5		3.6	3.0	3.5	3.5	
Structural clay products .....	325	41.6	41.4	42.4	41.9		3.8	3.8	4.2	4.0	
Pottery and related products .....	326	40.0	40.2	40.1	39.8		2.8	2.8	2.7	3.0	
Concrete, gypsum, and plaster products .....	327	44.1	44.5	42.6	43.3		6.7	7.0	5.8	6.4	
Concrete block and brick .....	3271	45.7	46.5	44.8	46.2		8.0	8.4	7.7	8.3	
Concrete products, nec .....	3272	43.5	44.1	42.7	42.6		5.9	6.3	5.3	5.4	
Ready-mixed concrete .....	3273	43.1	43.6	41.1	42.3		6.6	6.9	5.3	6.2	
Misc. nonmetallic mineral products .....	329	41.7	41.5	42.1	41.4		3.9	3.8	4.6	4.2	
Abrasive products .....	3291	40.6	41.2	41.5	40.3		2.6	2.6	3.4	2.5	
Asbestos products .....	3292	43.8	42.9	43.7	43.0		5.1	4.4	5.8	6.0	
Primary metal industries											
Blast furnaces and basic steel products .....	331	41.3	41.7	42.6	43.3	42.9	3.5	3.5	4.5	4.5	
Blast furnaces and steel mills .....	3312	41.2	41.6	42.4	43.4	-	3.4	3.5	4.4	4.5	
Steel pipe and tubes .....	3317	41.1	40.9	43.2	42.9		3.2	2.7	4.8	4.4	
Iron and steel foundries .....	332	40.7	41.2	42.7	42.0		3.7	3.8	4.7	4.4	
Gray iron foundries .....	3321	40.7	41.1	42.7	41.7		4.2	4.2	5.2	4.8	
Malleable iron foundries .....	3322	40.5	39.5	41.2	41.6		2.6	2.1	3.6	3.2	
Steel foundries, nec .....	3325	40.5	41.4	41.8	41.5		2.8	3.0	3.9	3.6	
Primary nonferrous metals .....	333	41.4	41.9	43.4	43.3		3.3	3.3	4.3	4.5	
Primary aluminum .....	3334	41.5	42.2	44.3	44.2		3.4	3.4	4.4	4.6	
Nonferrous rolling and drawing .....	335	42.7	42.6	43.4	42.9		5.3	5.2	5.4	4.9	
Copper rolling and drawing .....	3351	42.1	42.5	43.5	42.6		3.8	4.2	5.9	5.5	
Aluminum sheet, plate, and foil .....	3353	43.8	44.1	43.9	44.1		7.3	7.2	6.8	6.4	
Nonferrous wire drawing and insulating .....	3357	42.2	42.0	43.2	42.3		4.8	4.8	4.8	4.2	
Nonferrous foundries .....	336	41.3	41.1	42.1	40.6		3.2	3.3	3.9	3.1	
Aluminum foundries .....	3361	41.8	41.5	42.3	41.1		3.6	3.6	4.1	3.4	
Fabricated metal products											
Metal cans and shipping containers .....	341	41.0	41.0	41.5	40.9	41.4	3.3	3.2	3.7	3.2	
Metal cans .....	3411	43.3	43.9	43.5	43.7	-	5.1	5.5	5.2	5.5	
Cutlery, hand tools, and hardware .....	342	43.5	44.2	43.5	43.7		5.1	5.6	5.2	5.6	
Hand and edge tools, and hand saws and blades .....	3423,5	40.6	40.6	41.3	40.2		2.5	2.5	3.1	2.4	
Hardware, nec .....	3429	39.7	40.4	41.1	40.6		1.7	2.0	2.8	2.5	
Hardware, nec .....	3429	40.9	40.7	41.2	39.6		2.9	2.8	3.4	2.4	
Plumbing and heating, except electric .....	343	39.5	39.6	40.6	39.6		2.0	2.2	2.9	2.3	
Plumbing fittings and brass goods .....	3432	40.6	39.9	41.2	40.1		2.6	2.1	2.6	2.0	
Heating equipment, except electric .....	3433	37.7	38.1	39.4	38.5		1.0	1.3	2.2	2.1	
Fabricated structural metal products .....	344	40.3	40.7	40.8	40.1		2.9	3.0	3.2	2.7	
Fabricated structural metal .....	3441	41.0	41.3	41.8	41.3		3.1	3.5	3.7	3.0	
Metal doors, sash, and trim .....	3442	40.2	40.8	39.3	38.9		3.0	3.2	2.5	2.2	
Fabricated plate work (boiler shops) .....	3443	41.0	41.2	42.5	41.1		2.8	2.7	4.2	3.3	
Sheet metal work .....	3444	39.5	39.5	40.2	39.4		2.4	2.4	2.9	2.4	
Architectural metal work .....	3446	39.2	40.1	40.4	40.2		3.3	3.1	3.3	3.0	
Screw machine products, bolts, etc .....	345	42.5	42.3	43.3	42.3		4.4	4.1	5.3	4.4	
Screw machine products .....	3451	41.2	40.9	41.7	40.8		3.4	3.2	3.8	3.0	
Bolts, nuts, rivets, and washers .....	3452	43.8	43.7	45.0	43.8		5.4	5.0	6.8	5.9	
Metal forgings and stampings .....	346	42.2	41.9	42.8	41.9		4.2	4.0	4.8	4.2	
Iron and steel forgings .....	3462	41.4	41.7	42.4	40.4		2.8	3.3	3.7	3.2	
Automotive stampings .....	3465	43.4	43.2	44.2	43.9		5.3	4.9	5.9	5.5	
Metal stampings, nec .....	3469	41.0	40.6	41.1	40.0		3.3	3.1	3.8	3.1	
Metal services, nec .....	347	40.5	40.7	41.0	40.4		3.4	3.3	3.5	3.2	
Plating and polishing .....	3471	39.8	40.2	40.9	40.5		3.0	3.0	3.5	3.2	
Metal coating and allied services .....	3479	41.8	41.6	41.3	40.3		4.2	4.0	3.6	3.2	
Ordnance and accessories, nec .....	348	40.7	40.3	40.8	40.9		2.6	2.2	2.8	2.6	
Ammunition, except for small arms, nec .....	3483	39.3	39.1	39.5	40.0		2.1	1.9	2.2	2.1	
Misc. fabricated metal products .....	349	40.4	40.1	41.0	40.5		2.6	2.4	3.2	2.8	
Valves and pipe fittings .....	3494	39.7	39.3	41.0	40.6		2.4	2.0	3.1	2.9	
Misc. fabricated wire products .....	3496	40.8	40.8	40.7	40.3		2.7	2.5	3.0	2.5	
Machinery, except electrical											
Engines and turbines .....	35	41.5	41.5	42.2	41.5	42.2	3.2	3.2	3.9	3.4	
Turbines and turbine generator sets .....	3511	42.5	42.2	43.2	42.7	-	3.8	3.6	5.7	5.7	
Internal combustion engines, nec .....	3519	40.8	40.1	39.3	38.8		3.9	4.0	3.3	3.2	
Farm and garden machinery .....	352	43.2	43.0	44.5	44.1		3.8	3.5	6.6	6.6	
Farm machinery and equipment .....	3523	41.4	40.7	42.1	41.0		3.0	2.6	3.8	3.3	
Farm machinery and equipment .....	3523	41.3	40.9	42.2	40.8		2.9	2.6	4.0	3.3	

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products—Continued											
Glass containers .....	3221	\$11.31	\$11.26	\$11.55	\$12.11		\$475.02	\$478.55	\$485.10	\$506.20	
Pressed and blown glass, nec .....	3229	10.44	10.49	10.66	10.81		435.35	430.09	439.19	439.97	
Products of purchased glass .....	323	8.85	8.82	9.01	9.06		368.16	368.68	374.82	374.18	
Cement, hydraulic .....	324	13.32	13.33	13.28	13.49		544.79	543.86	553.78	559.84	
Structural clay products .....	325	8.16	8.17	8.44	8.49		339.46	338.24	357.86	355.73	
Pottery and related products .....	326	8.64	8.86	8.84	8.89		345.60	356.17	354.48	353.82	
Concrete, gypsum, and plaster products .....	327	9.72	9.80	9.82	9.91		428.65	436.10	418.33	429.10	
Concrete block and brick .....	3271	8.65	8.74	8.74	8.84		395.31	406.41	391.55	408.41	
Concrete products, nec .....	3272	8.51	8.55	8.68	8.74		370.19	377.06	370.64	372.32	
Ready-mixed concrete .....	3273	10.73	10.79	10.75	10.78		462.46	470.44	441.83	455.99	
Misc. nonmetallic mineral products .....	329	10.13	10.17	10.33	10.31		422.42	422.06	434.89	426.83	
Abrasive products .....	3291	9.70	9.65	9.70	9.69		393.82	397.58	402.55	390.51	
Asbestos products .....	3292	10.15	10.23	10.18	10.42		444.57	438.87	444.87	448.06	
Primary metal industries .....	33	11.95	11.98	11.82	11.98	\$11.92	497.12	499.57	505.90	510.35	\$511.37
Blast furnaces and basic steel products .....	331	13.78	13.85	13.66	13.83	13.76	569.11	577.55	581.92	598.84	598.56
Blast furnaces and steel mills .....	3312	14.52	14.58	14.40	14.53		598.22	606.53	610.56	630.60	
Steel pipe and tubes .....	3317	10.76	10.80	10.97	11.05		442.24	441.72	473.90	474.05	
Iron and steel foundries .....	332	10.57	10.55	10.68	10.73		430.20	434.66	456.04	450.66	
Gray iron foundries .....	3321	11.01	11.00	11.10	11.16		448.11	452.10	473.97	465.37	
Malleable iron foundries .....	3322	11.33	11.28	11.79	11.61		458.87	445.56	485.75	482.98	
Steel foundries, nec .....	3325	9.75	9.72	10.07	10.10		394.88	402.41	420.93	419.15	
Primary nonferrous metals .....	333	13.89	13.79	12.79	12.91		575.05	577.80	555.09	559.00	
Primary aluminum .....	3334	14.43	14.38	13.19	13.23		598.85	606.84	584.32	584.77	
Nonferrous rolling and drawing .....	335	11.34	11.34	11.25	11.35		484.22	483.08	488.25	486.92	
Copper rolling and drawing .....	3351	10.13	10.15	10.49	10.55		426.47	431.38	456.32	449.43	
Aluminum sheet, plate, and foil .....	3353	14.44	14.35	13.71	13.79		632.47	632.84	601.87	608.14	
Nonferrous wire drawing and insulating .....	3357	10.89	10.96	11.17	11.22		459.56	460.32	482.54	474.61	
Nonferrous foundries .....	336	9.49	9.55	9.58	9.66		391.94	392.51	403.32	392.20	
Aluminum foundries .....	3361	9.81	9.85	9.91	9.97		410.06	408.78	419.19	409.77	
Fabricated metal products .....	34	9.87	9.87	9.99	9.98	9.97	404.67	404.67	414.59	408.18	412.76
Metal cans and shipping containers .....	341	13.38	13.43	13.02	13.19		579.35	589.58	566.37	576.40	
Metal cans .....	3411	14.13	14.19	13.74	13.94		614.66	627.20	597.69	609.18	
Cutlery, hand tools, and hardware .....	342	9.82	9.79	9.90	9.91		398.69	397.47	408.87	398.38	
Hand and edge tools, and hand saws and blades .....	3423,5	8.95	8.99	9.02	9.14		355.32	363.20	370.72	371.08	
Hardware, nec .....	3429	10.27	10.21	10.36	10.31		420.04	415.55	426.83	408.28	
Plumbing and heating, except electric .....	343	8.82	8.88	9.15	9.14		348.39	351.65	371.49	361.94	
Plumbing fittings and brass goods .....	3432	8.57	8.58	8.62	8.65		347.94	342.34	355.14	346.87	
Heating equipment, except electric .....	3433	8.65	8.67	9.07	9.17		326.11	330.33	357.36	353.05	
Fabricated structural metal products .....	344	9.16	9.12	9.26	9.23		369.15	371.18	377.81	370.12	
Fabricated structural metal .....	3441	9.53	9.61	9.73	9.70		390.73	396.89	406.71	400.61	
Metal doors, sash, and trim .....	3442	7.58	7.49	7.75	7.72		304.72	305.59	304.58	300.31	
Fabricated plate work (boiler shops) .....	3443	10.14	10.15	10.27	10.23		415.74	418.18	436.48	420.45	
Sheet metal work .....	3444	9.55	9.51	9.53	9.53		377.23	375.65	383.11	375.48	
Architectural metal work .....	3446	8.74	8.70	8.71	8.82		342.61	348.87	351.88	354.56	
Screw machine products, bolts, etc .....	345	9.35	9.35	9.69	9.61		397.38	395.51	419.58	406.50	
Screw machine products .....	3451	8.74	8.76	8.99	8.88		360.09	358.28	374.88	362.30	
Bolts, nuts, rivets, and washers .....	3452	9.92	9.92	10.36	10.32		434.50	433.50	466.20	452.02	
Metal forgings and stampings .....	346	11.75	11.81	11.88	11.86		495.85	494.84	508.46	496.93	
Iron and steel forgings .....	3462	12.20	12.35	12.49	12.62		505.08	515.00	529.58	509.85	
Automotive stampings .....	3465	13.74	13.74	13.79	13.75		596.32	593.57	609.52	603.63	
Metal stampings, nec .....	3469	8.97	9.09	9.25	9.17		367.77	369.05	380.18	366.80	
Metal services, nec .....	347	7.83	7.89	7.95	8.05		317.12	321.12	325.95	325.22	
Plating and polishing .....	3471	7.71	7.72	7.92	7.97		306.86	310.34	323.93	322.79	
Metal coating and allied services .....	3479	8.06	8.21	8.01	8.19		336.91	341.54	330.81	330.06	
Ordnance and accessories, nec .....	348	10.64	10.68	10.87	10.86		433.05	430.40	443.50	444.17	
Ammunition, except for small arms, nec .....	3483	10.22	10.35	10.41	10.46		401.65	404.69	411.20	418.40	
Misc. fabricated metal products .....	349	9.00	9.04	9.27	9.25		363.60	362.50	380.07	374.63	
Valves and pipe fittings .....	3494	9.75	9.77	9.86	9.83		387.08	383.96	404.26	399.10	
Misc. fabricated wire products .....	3496	8.10	8.12	8.39	8.35		330.48	331.30	341.47	336.51	
Machinery, except electrical .....	35	10.58	10.58	10.72	10.70	10.70	439.07	439.07	452.38	444.05	451.54
Engines and turbines .....	351	12.93	13.00	13.42	13.52		549.53	548.60	579.74	577.30	
Turbines and turbine generator sets .....	3511	12.86	12.94	12.62	12.75		524.69	518.89	495.97	494.70	
Internal combustion engines, nec .....	3519	12.95	13.02	13.67	13.75		559.44	559.86	608.32	606.38	
Farm and garden machinery .....	352	10.32	10.30	10.02	10.11		427.25	419.21	421.84	414.51	
Farm machinery and equipment .....	3523	11.32	11.25	10.94	11.02		467.52	460.13	461.67	449.62	

See footnotes at end of table.



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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Durable goods—Continued</b>											
<b>Machinery, except electrical—Continued</b>											
Construction and related machinery .....	353	41.5	41.3	42.0	41.9		2.4	2.4	3.4	3.0	
Construction machinery .....	3531	43.3	43.0	42.9	42.8		2.4	2.3	2.7	2.5	
Mining machinery .....	3532	41.2	40.6	41.5	41.3		2.4	2.2	3.6	3.1	
Oil field machinery .....	3533	40.4	39.5	41.7	42.7		2.5	2.2	4.9	5.0	
Conveyors and conveying equipment .....	3535	41.5	41.7	43.1	41.8		2.9	3.2	4.5	3.4	
Industrial trucks and tractors .....	3537	39.4	39.8	40.0	39.7		2.4	2.4	2.6	2.0	
Metalworking machinery .....	354	42.7	42.3	42.5	41.9		4.8	4.5	4.7	4.0	
Machine tools, metal cutting types .....	3541	42.8	42.9	42.3	40.9		4.2	4.1	3.7	2.8	
Machine tools, metal forming types .....	3542	42.4	41.6	41.2	40.4		4.7	4.5	4.4	3.5	
Special dies, tools, jigs, and fixtures .....	3544	43.8	43.3	43.5	42.9		6.0	5.5	5.8	4.9	
Machine tool accessories .....	3545	41.0	40.4	41.0	40.8		3.5	3.3	3.4	3.3	
Power driven hand tools .....	3546	39.4	39.8	41.2	40.2		1.9	2.2	2.8	2.1	
Special industry machinery .....	355	41.4	41.6	42.1	41.1		3.2	3.3	4.0	3.2	
Food products machinery .....	3551	41.6	42.0	41.9	40.9		2.6	2.9	3.3	2.7	
Textile machinery .....	3552	41.4	41.6	43.9	42.5		2.8	3.2	4.8	3.7	
Printing trades machinery .....	3555	40.3	41.3	40.6	39.0		3.1	3.7	4.3	2.7	
General industrial machinery .....	356	41.2	41.5	42.3	41.5		2.9	3.0	3.6	3.1	
Pumps and pumping equipment .....	3561	40.6	41.0	42.6	41.0		1.9	2.1	3.4	2.5	
Ball and roller bearings .....	3562	42.5	43.0	43.4	43.6		4.4	4.8	5.0	4.8	
Air and gas compressors .....	3563	41.4	42.1	42.9	41.4		2.5	3.1	3.1	2.7	
Blowers and fans .....	3564	40.0	40.4	40.9	39.8		2.3	2.5	2.0	1.5	
Speed changers, drives, and gears .....	3566	42.7	42.9	43.9	42.7		3.3	3.7	4.3	3.8	
Power transmission equipment, nec .....	3568	40.8	41.0	41.6	41.1		3.4	3.1	4.0	3.6	
Office and computing machines .....	357	41.5	41.9	42.7	42.1		2.3	2.5	3.5	3.2	
Electronic computing equipment .....	3573	41.7	41.9	42.7	41.9		2.2	2.3	3.6	3.1	
Refrigeration and service machinery .....	358	40.5	41.0	41.6	40.9		2.6	2.9	2.8	2.8	
Refrigeration and heating equipment .....	3585	40.9	41.4	41.7	40.7		3.0	3.3	2.6	2.5	
Misc. machinery, except electrical .....	359	41.0	40.9	41.7	41.0		3.6	3.4	3.9	3.4	
Carburetors, pistons, rings, and valves .....	3592	41.8	40.9	42.4	41.6		4.2	3.5	4.3	3.9	
Machinery, except electrical, nec .....	3599	40.9	40.9	41.5	41.0		3.5	3.4	3.8	3.3	
Electrical and electronic equipment .....	36	40.7	40.8	40.9	40.2	40.3	2.6	2.6	2.8	2.6	
Electric distributing equipment .....	361	41.0	41.3	40.3	39.7	-	2.6	2.6	2.4	2.0	
Transformers .....	3612	42.5	42.8	40.9	40.4		2.8	2.7	2.2	1.8	
Switchgear and switchboard apparatus .....	3613	39.7	40.0	39.8	39.0		2.3	2.4	2.5	2.2	
Electrical industrial apparatus .....	362	40.6	40.3	41.2	40.4		2.5	2.3	3.1	2.6	
Motors and generators .....	3621	41.0	40.6	41.3	40.1		2.9	2.6	3.5	2.8	
Industrial controls .....	3622	39.8	39.6	40.3	40.0		1.9	1.8	2.3	1.9	
Household appliances .....	363	40.1	40.4	40.3	39.9		2.7	2.6	2.6	2.3	
Household refrigerators and freezers .....	3632	40.5	41.2	41.6	40.5		3.8	4.0	2.6	2.7	
Household laundry equipment .....	3633	41.0	40.2	41.2	40.5		2.6	2.0	2.6	2.1	
Electric housewares and fans .....	3634	39.6	40.7	39.5	40.5		1.7	2.3	2.4	2.4	
Electric lighting and wiring equipment .....	364	40.1	40.1	40.4	39.5		2.5	2.5	2.8	2.4	
Electric lamps .....	3641	40.7	41.1	40.0	39.9		2.9	2.6	2.9	2.7	
Current-carrying wiring devices .....	3643	40.5	40.8	40.6	39.3		2.5	2.5	2.8	2.4	
Noncurrent-carrying wiring devices .....	3644	39.5	39.5	41.1	40.7		1.5	1.3	2.6	2.5	
Residential lighting fixtures .....	3645	38.6	37.7	39.3	37.7		1.2	1.1	1.6	.9	
Radio and TV receiving equipment .....	365	40.6	40.2	40.9	40.5		3.0	2.6	2.2	2.1	
Radio and TV receiving sets .....	3651	41.3	40.5	41.3	40.7		2.9	2.4	1.9	1.4	
Communication equipment .....	366	41.4	41.2	41.8	41.0		2.4	2.5	2.6	2.3	
Telephone and telegraph apparatus .....	3661	41.1	41.1	41.9	41.1		1.7	2.1	2.0	1.8	
Radio and TV communication equipment .....	3662	41.5	41.3	41.8	41.0		2.7	2.7	2.8	2.5	
Electronic components and accessories .....	367	40.9	41.0	40.7	40.1		2.7	2.7	3.0	3.1	
Electronic tubes .....	3671-3	43.1	43.7	41.8	41.4		2.3	2.5	2.5	1.9	
Semiconductors and related devices .....	3674	41.2	40.7	40.6	40.1		3.1	3.0	3.4	4.2	
Electronic components, nec .....	3679	40.7	41.1	41.0	40.2		2.6	2.6	3.1	2.9	
Misc. electrical equipment and supplies .....	369	40.1	41.3	41.0	39.8		2.6	3.0	3.3	2.6	
Storage batteries .....	3691	40.1	40.9	39.5	38.5		1.6	1.8	1.9	1.7	
Engine electrical equipment .....	3694	40.5	42.7	42.1	40.7		3.7	4.2	4.4	3.7	

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>
<b>Durable goods—Continued</b>											
<b>Machinery, except electrical—Continued</b>											
Construction and related machinery .....	353	\$11.12	\$11.12	\$11.13	\$11.15		\$461.48	\$459.26	\$467.46	\$467.19	
Construction machinery .....	3531	12.26	12.25	12.35	12.45		530.86	526.75	529.82	532.86	
Mining machinery .....	3532	11.24	11.35	11.39	11.20		463.09	460.81	472.69	462.56	
Oil field machinery .....	3533	11.30	11.36	11.32	11.38		456.52	448.72	472.04	485.93	
Conveyors and conveying equipment .....	3535	10.02	10.01	9.82	9.70		415.83	417.42	423.24	405.46	
Industrial trucks and tractors .....	3537	9.52	9.52	9.71	9.68		375.09	378.90	388.40	384.30	
Metalworking machinery .....	354	10.94	10.97	11.14	11.09		467.14	464.03	473.45	464.67	
Machine tools, metal cutting types .....	3541	10.81	10.97	11.05	10.95		462.67	470.61	467.42	447.86	
Machine tools, metal forming types .....	3542	11.49	11.53	11.40	11.39		487.18	479.65	469.68	460.16	
Special dies, tools, jigs, and fixtures .....	3544	11.68	11.67	11.91	11.87		511.58	505.31	518.09	509.22	
Machine tool accessories .....	3545	9.79	9.83	9.99	9.93		401.39	397.13	409.59	405.14	
Power driven hand tools .....	3546	8.40	8.46	8.49	8.50		330.96	336.71	349.79	341.70	
Special industry machinery .....	355	10.39	10.41	10.60	10.54		430.15	433.06	446.26	433.19	
Food products machinery .....	3551	10.56	10.57	10.71	10.59		439.30	443.94	448.75	433.13	
Textile machinery .....	3552	8.29	8.43	8.72	8.59		343.21	350.69	382.81	365.08	
Printing trades machinery .....	3555	10.86	10.83	11.31	11.25		437.66	447.28	459.19	438.75	
General industrial machinery .....	356	10.23	10.24	10.37	10.31		421.48	424.96	438.65	427.87	
Pumps and pumping equipment .....	3561	10.78	10.83	11.03	11.02		437.67	444.03	469.88	451.82	
Ball and roller bearings .....	3562	10.76	10.77	11.05	10.88		457.30	463.11	479.57	474.37	
Air and gas compressors .....	3563	9.91	10.01	10.19	10.26		410.27	421.42	437.15	424.76	
Blowers and fans .....	3564	9.08	9.06	9.13	9.15		363.20	366.02	373.42	364.17	
Speed changers, drives, and gears .....	3566	10.61	10.45	10.22	10.05		453.05	448.31	448.66	429.14	
Power transmission equipment, nec .....	3568	10.25	10.24	10.61	10.55		418.20	419.84	441.38	433.61	
Office and computing machines .....	357	9.88	9.87	10.14	10.11		410.02	413.55	432.98	425.63	
Electronic computing equipment .....	3573	9.85	9.86	10.17	10.10		410.75	413.13	434.26	423.19	
Refrigeration and service machinery .....	358	10.20	10.23	10.31	10.28		413.10	419.43	428.90	420.45	
Refrigeration and heating equipment .....	3585	10.51	10.51	10.51	10.46		429.86	435.11	438.27	425.72	
Misc. machinery, except electrical .....	359	10.24	10.24	10.39	10.38		419.84	418.82	433.26	425.58	
Carburetors, pistons, rings, and valves .....	3592	12.75	12.59	12.70	12.64		532.95	514.93	538.48	525.82	
Machinery, except electrical, nec .....	3599	9.80	9.84	10.01	10.00		400.82	402.46	415.42	410.00	
Electrical and electronic equipment .....	36	9.60	9.63	9.84	9.85	\$9.84	390.72	392.90	402.46	395.97	\$396.55
Electric distributing equipment .....	361	8.91	8.90	9.11	9.13	-	365.31	367.57	367.13	362.46	-
Transformers .....	3612	8.77	8.78	8.98	8.97		372.73	375.78	367.28	362.39	
Switchgear and switchboard apparatus .....	3613	9.03	9.02	9.23	9.28		358.49	360.80	367.35	361.92	
Electrical industrial apparatus .....	362	9.66	9.65	9.71	9.72		392.20	388.90	400.05	392.69	
Motors and generators .....	3621	9.60	9.56	9.64	9.64		393.60	388.14	398.13	386.56	
Industrial controls .....	3622	9.44	9.43	9.59	9.53		375.71	373.43	386.48	381.20	
Household appliances .....	363	9.69	9.61	9.77	9.71		388.57	388.24	393.73	387.43	
Household refrigerators and freezers .....	3632	10.82	10.90	11.00	11.15		438.21	449.08	457.60	451.58	
Household laundry equipment .....	3633	11.25	11.17	11.42	11.41		461.25	449.03	470.50	462.11	
Electric housewares and fans .....	3634	7.39	7.36	7.44	7.38		292.64	299.55	293.88	298.89	
Electric lighting and wiring equipment .....	364	8.79	8.87	9.07	9.09		352.48	355.69	366.43	359.06	
Electric lamps .....	3641	9.84	9.79	10.06	10.07		400.49	402.37	402.40	401.79	
Current-carrying wiring devices .....	3643	8.29	8.36	8.61	8.64		335.75	341.09	349.57	339.55	
Noncurrent-carrying wiring devices .....	3644	9.17	9.18	9.35	9.35		362.22	362.61	384.29	380.55	
Residential lighting fixtures .....	3645	6.48	6.60	6.54	6.62		250.13	248.82	257.02	249.57	
Radio and TV receiving equipment .....	365	9.66	9.48	9.34	9.34		392.20	381.10	382.01	378.27	
Radio and TV receiving sets .....	3651	10.07	9.87	9.76	9.64		415.89	399.74	403.09	392.35	
Communication equipment .....	366	11.21	11.26	11.62	11.63		464.09	463.91	485.72	476.83	
Telephone and telegraph apparatus .....	3661	10.94	11.06	11.12	11.15		449.63	454.57	465.93	458.27	
Radio and TV communication equipment .....	3662	11.32	11.34	11.81	11.80		469.78	468.34	493.66	483.80	
Electronic components and accessories .....	367	8.50	8.57	8.89	8.92		347.65	351.37	361.82	357.69	
Electronic tubes .....	3671-3	10.61	10.61	11.17	11.27		457.29	463.66	466.91	466.58	
Semiconductors and related devices .....	3674	9.88	9.99	10.60	10.69		407.06	406.59	430.36	428.67	
Electronic components, nec .....	3679	7.80	7.87	8.01	8.02		317.46	323.46	328.41	322.40	
Misc. electrical equipment and supplies .....	369	10.49	10.61	10.47	10.47		420.65	438.19	429.27	416.71	
Storage batteries .....	3691	10.85	10.88	10.77	10.93		435.09	444.99	425.42	420.81	
Engine electrical equipment .....	3694	11.24	11.42	11.13	11.07		455.22	487.63	468.57	450.55	

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	42.3	42.1	42.6	41.9	42.1	4.3	4.1	4.4	4.0	
Motor vehicles and equipment .....	371	42.4	42.0	43.2	42.3	42.3	4.3	4.0	4.6	4.1	
Motor vehicles and car bodies .....	3711	41.9	41.5	43.1	42.1	-	4.1	3.7	4.7	4.1	
Truck and bus bodies .....	3713	40.9	41.0	42.3	41.6		3.8	3.5	4.0	3.5	
Motor vehicle parts and accessories .....	3714	43.2	42.7	43.5	42.7		4.8	4.5	4.9	4.4	
Truck trailers .....	3715	40.1	41.2	40.5	40.2		2.0	2.9	2.3	2.5	
Aircraft and parts .....	372	42.9	42.7	42.7	41.9		4.6	4.7	4.7	4.3	
Aircraft .....	3721	42.2	42.1	42.1	41.6		4.2	4.4	4.2	3.9	
Aircraft engines and engine parts .....	3724	42.5	42.4	42.7	41.8		4.7	4.7	4.8	4.2	
Aircraft equipment, nec .....	3728	44.1	43.7	43.5	42.5		5.2	5.0	5.5	5.0	
Ship and boat building and repairing .....	373	41.0	41.2	40.9	40.7		3.6	3.5	3.0	2.8	
Ship building and repairing .....	3731	41.2	41.2	40.9	40.4		3.9	3.5	2.9	2.5	
Boat building and repairing .....	3732	40.5	41.2	40.9	41.0		2.8	3.5	3.1	3.3	
Railroad equipment .....	374	40.0	39.5	40.2	40.0		1.8	1.4	2.1	2.0	
Guided missiles, space vehicles, and parts .....	376	42.0	42.2	42.5	42.3		4.2	4.1	4.2	4.2	
Guided missiles and space vehicles .....	3761	42.3	42.6	42.8	42.5		4.5	4.5	4.3	4.5	
Miscellaneous transportation equipment .....	379	41.7	40.9	40.6	40.1		3.8	3.5	3.6	3.6	
Travel trailers and campers .....	3792	39.1	39.1	39.0	38.1		2.5	2.6	2.0	2.1	
Instruments and related products .....	38	40.9	40.6	41.5	40.9	41.0	2.5	2.4	2.9	2.5	
Engineering and scientific instruments .....	381	42.2	41.6	41.6	41.0		3.0	2.9	2.9	2.4	
Measuring and controlling devices .....	382	40.5	40.2	41.8	40.8		2.0	1.9	2.8	2.3	
Environmental controls .....	3822	39.2	39.0	40.6	39.7		1.4	1.4	3.0	2.5	
Process control instruments .....	3823	41.2	40.4	43.2	42.3		2.7	2.4	3.7	2.7	
Instruments to measure electricity .....	3825	40.3	40.0	41.3	39.9		2.1	1.8	2.3	1.9	
Optical instruments and lenses .....	383	41.9	41.8	41.8	41.2		3.2	2.8	3.0	2.5	
Medical instruments and supplies .....	384	40.9	40.7	41.0	40.2		2.7	2.6	3.1	2.5	
Surgical and medical instruments .....	3841	41.3	40.6	41.8	41.0		2.9	2.6	3.4	2.9	
Surgical appliances and supplies .....	3842	40.5	40.9	40.3	39.5		2.6	2.8	2.8	2.1	
Ophthalmic goods .....	385	39.9	39.8	40.6	40.1		2.2	2.3	3.0	2.5	
Photographic equipment and supplies .....	386	41.9	41.4	42.7	42.9		3.0	2.9	3.3	3.5	
Watches, clocks, and watchcases .....	387	39.3	39.0	39.8	39.8		1.1	1.2	1.5	1.8	
Miscellaneous manufacturing .....	39	39.6	39.4	39.3	38.8	39.1	2.2	2.1	2.4	2.1	
Jewelry, silverware, and plated ware .....	391	38.9	38.2	38.2	37.9	-	2.1	1.7	2.0	1.9	
Jewelry, precious metal .....	3911	37.8	37.1	37.1	36.9		1.6	1.4	1.4	1.5	
Musical instruments .....	393	40.7	39.7	41.5	40.9		2.9	2.5	3.3	2.7	
Toys and sporting goods .....	394	39.8	39.8	39.1	38.6		2.1	2.1	2.1	2.0	
Dolls, games, toys, and children's vehicles .....	3942,4	38.8	38.9	38.6	38.2		1.7	1.9	2.1	1.8	
Sporting and athletic goods, nec .....	3949	40.5	40.6	39.5	38.9		2.4	2.3	2.1	2.1	
Pens, pencils, office, and art supplies .....	395	39.5	39.4	40.7	40.0		1.8	1.6	2.4	1.8	
Costume jewelry and notions .....	396	39.5	38.6	37.7	36.3		2.1	2.0	3.1	2.2	
Costume jewelry .....	3961	39.1	37.9	36.1	33.9		1.9	1.7	3.1	1.6	
Miscellaneous manufactures .....	399	39.8	39.8	39.8	39.8		2.3	2.3	2.5	2.3	
Signs and advertising displays .....	3993	40.0	40.0	39.7	39.8		2.4	2.4	2.5	2.4	
<b>Nondurable goods</b> .....		39.6	39.8	40.0	39.5	40.1	3.1	3.2	3.4	3.1	3.5
Food and kindred products .....	20	39.6	40.1	39.5	39.3	40.0	3.4	3.8	3.5	3.4	-
Meat products .....	201	39.0	40.0	38.4	38.6	-	3.1	3.9	2.9	2.9	
Meat packing plants .....	2011	41.0	42.1	40.9	40.9		4.0	4.9	3.9	3.9	
Sausages and other prepared meats .....	2013	39.2	40.9	39.3	39.9		2.8	3.9	2.9	3.1	
Poultry dressing plants .....	2016	37.3	38.1	36.0	36.4		2.6	3.2	2.1	2.2	
Dairy products .....	202	41.1	41.4	41.0	41.3		4.1	4.5	4.0	4.4	
Cheese, natural and processed .....	2022	39.3	39.5	39.4	38.9		3.6	3.6	3.6	3.9	
Fluid milk .....	2026	42.2	42.2	42.0	42.5		4.9	5.0	4.5	5.1	
Preserved fruits and vegetables .....	203	38.6	38.7	39.0	38.0		2.5	2.7	2.9	2.7	
Canned specialties .....	2032	38.8	37.4	38.1	36.9		3.2	3.3	2.3	1.4	
Canned fruits and vegetables .....	2033	39.3	38.9	38.5	37.7		2.7	3.1	2.7	2.8	
Frozen fruits and vegetables .....	2037	36.4	37.3	38.6	37.2		2.2	2.3	2.9	2.9	
Grain mill products .....	204	42.7	43.2	43.7	42.9		4.8	4.7	5.7	5.2	
Flour and other grain mill products .....	2041	44.6	45.0	46.5	46.3		4.5	4.1	6.3	5.9	
Prepared feeds, nec .....	2048	42.0	42.3	42.5	42.9		4.8	4.6	5.3	5.5	
Bakery products .....	205	39.6	39.7	39.7	39.9		3.4	3.6	3.7	3.9	
Bread, cake, and related products .....	2051	39.3	39.1	38.3	38.9		3.8	3.8	3.4	4.0	
Cookies and crackers .....	2052	40.3	41.4	43.2	42.4		2.6	3.1	4.4	3.7	

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	\$12.78	\$12.73	\$12.86	\$12.78	\$12.82	\$540.59	\$535.93	\$547.84	\$535.48	\$539.72
Motor vehicles and equipment .....	371	13.45	13.39	13.49	13.37	13.39	570.28	562.38	582.77	565.55	566.40
Motor vehicles and car bodies .....	3711	14.98	14.99	15.16	15.04	-	627.66	622.09	653.40	633.18	-
Truck and bus bodies .....	3713	10.88	10.70	11.42	11.39	-	444.99	438.70	483.07	473.82	-
Motor vehicle parts and accessories .....	3714	12.73	12.67	12.64	12.60	-	549.94	541.01	549.84	538.02	-
Truck trailers .....	3715	9.77	9.45	9.35	9.42	-	379.75	389.34	378.68	378.68	-
Aircraft and parts .....	372	12.47	12.74	13.03	13.01	-	547.83	544.00	556.38	545.12	-
Aircraft .....	3721	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>4</sup> )	-	-	-	-	-	-
Aircraft engines and engine parts .....	3724	\$12.91	\$12.89	\$13.09	\$13.06	-	548.68	546.54	558.94	545.91	-
Aircraft equipment, nec .....	3728	11.80	11.79	12.09	12.11	-	520.38	515.22	525.92	514.68	-
Ship and boat building and repairing .....	373	10.46	10.59	10.31	10.19	-	428.86	436.31	421.68	414.73	-
Ship building and repairing .....	3731	11.60	11.77	11.52	11.43	-	477.92	484.92	471.17	461.77	-
Boat building and repairing .....	3732	7.97	8.03	7.93	7.95	-	322.79	330.84	324.34	325.95	-
Railroad equipment .....	374	12.62	12.19	12.25	12.15	-	504.80	481.51	492.45	486.00	-
Guided missiles, space vehicles, and parts .....	376	12.21	12.03	12.30	12.42	-	512.82	507.67	522.75	525.37	-
Guided missiles and space vehicles .....	3761	12.47	12.26	12.62	12.79	-	527.48	522.28	540.14	543.58	-
Miscellaneous transportation equipment .....	379	10.58	10.60	10.74	10.69	-	441.19	433.54	436.04	428.67	-
Travel trailers and campers .....	3792	8.80	9.09	8.95	8.89	-	344.08	355.42	349.05	338.71	-
Instruments and related products .....	38	9.40	9.40	9.67	9.66	9.70	384.46	381.64	401.31	395.09	397.70
Engineering and scientific instruments .....	381	10.14	10.18	10.53	10.58	-	427.91	423.49	438.05	433.78	-
Measuring and controlling devices .....	382	9.12	9.15	9.56	9.46	-	369.36	367.83	399.61	385.97	-
Environmental controls .....	3822	8.68	8.66	9.01	9.05	-	340.26	337.74	365.81	359.29	-
Process control instruments .....	3823	9.32	9.35	9.53	9.36	-	383.98	377.74	411.70	395.93	-
Instruments to measure electricity .....	3825	9.18	9.28	9.77	9.57	-	369.95	371.20	403.50	381.84	-
Optical instruments and lenses .....	383	10.49	10.35	10.50	10.47	-	439.53	432.63	438.90	431.36	-
Medical instruments and supplies .....	384	8.40	8.40	8.68	8.66	-	343.56	341.88	355.88	348.13	-
Surgical and medical instruments .....	3841	8.55	8.58	8.76	8.75	-	353.12	348.35	366.17	358.75	-
Surgical appliances and supplies .....	3842	8.30	8.26	8.60	8.56	-	336.15	337.83	346.58	338.12	-
Ophthalmic goods .....	385	7.22	7.21	7.33	7.29	-	288.08	286.96	297.60	292.33	-
Photographic equipment and supplies .....	386	12.48	12.51	12.95	13.14	-	522.91	517.91	552.97	563.71	-
Watches, clocks, and watchcases .....	387	6.98	7.10	7.08	7.09	-	274.31	276.90	281.78	282.18	-
Miscellaneous manufacturing .....	39	7.47	7.52	7.66	7.67	7.73	295.81	296.29	301.04	297.60	302.24
Jewelry, silverware, and plated ware .....	391	8.02	8.11	8.28	8.33	-	311.98	309.80	316.30	315.71	-
Jewelry, precious metal .....	3911	8.04	8.11	8.35	8.46	-	303.91	300.88	309.79	312.17	-
Musical instruments .....	393	7.13	7.26	7.39	7.35	-	290.19	288.22	306.69	300.62	-
Toys and sporting goods .....	394	6.88	6.88	7.08	7.06	-	273.82	273.82	276.83	272.52	-
Dolls, games, toys, and children's vehicles .....	3942,4	6.82	6.77	6.95	6.95	-	264.62	263.35	268.27	265.49	-
Sporting and athletic goods, nec .....	3949	6.93	6.96	7.18	7.14	-	280.67	282.58	283.61	277.75	-
Pens, pencils, office, and art supplies .....	395	7.69	7.66	7.70	7.64	-	303.76	301.80	313.39	305.60	-
Costume jewelry and notions .....	396	5.97	6.03	6.10	6.02	-	235.82	232.76	229.97	218.53	-
Costume jewelry .....	3961	5.48	5.58	5.52	5.40	-	214.27	211.48	199.27	183.06	-
Miscellaneous manufactures .....	399	8.17	8.26	8.45	8.50	-	325.17	328.75	336.31	338.30	-
Signs and advertising displays .....	3993	8.46	8.59	8.85	8.79	-	338.40	343.60	351.35	349.84	-
<b>Nondurable goods</b> .....		8.89	8.92	9.09	9.14	9.13	352.04	355.02	363.60	361.03	366.11
Food and kindred products .....	20	8.76	8.78	8.93	8.95	8.94	346.90	352.08	352.74	351.74	357.60
Meat products .....	201	7.32	7.36	7.40	7.39	-	285.48	294.40	284.16	285.25	-
Meat packing plants .....	2011	8.21	8.27	8.36	8.26	-	336.61	348.17	341.92	337.83	-
Sausages and other prepared meats .....	2013	8.81	8.83	8.74	8.86	-	345.35	361.15	343.48	353.51	-
Poultry dressing plants .....	2016	5.89	5.92	6.03	6.06	-	219.70	225.55	217.08	220.58	-
Dairy products .....	202	9.42	9.44	9.56	9.61	-	387.16	390.82	391.96	396.89	-
Cheese, natural and processed .....	2022	8.80	8.86	8.82	8.94	-	345.84	349.97	347.51	347.77	-
Fluid milk .....	2026	9.87	9.91	10.03	10.12	-	416.51	418.20	421.26	430.10	-
Preserved fruits and vegetables .....	203	8.12	8.12	8.46	8.53	-	313.43	314.24	329.94	324.14	-
Canned specialties .....	2032	9.89	9.91	10.31	10.38	-	383.73	370.63	392.81	383.02	-
Canned fruits and vegetables .....	2033	8.04	8.09	8.38	8.53	-	315.97	314.70	322.63	321.58	-
Frozen fruits and vegetables .....	2037	7.59	7.44	7.84	7.97	-	276.28	277.51	302.62	296.48	-
Grain mill products .....	204	10.58	10.60	10.65	10.48	-	451.77	457.92	465.41	449.59	-
Flour and other grain mill products .....	2041	10.04	10.03	10.34	10.24	-	447.78	451.35	480.81	474.11	-
Prepared feeds, nec .....	2048	7.97	8.06	8.31	8.37	-	334.74	340.94	353.18	359.07	-
Bakery products .....	205	9.86	9.83	9.93	10.02	-	390.46	390.25	394.22	399.80	-
Bread, cake, and related products .....	2051	9.76	9.76	9.81	9.90	-	383.57	381.62	375.72	385.11	-
Cookies and crackers .....	2052	10.09	10.03	10.18	10.29	-	406.63	415.24	439.78	436.30	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Sugar and confectionery products .....	206	39.5	39.5	40.2	39.1		2.4	2.3	3.0	2.4	
Cane and beet sugar .....	2061-3	40.5	41.5	42.6	41.2		3.2	3.2	5.1	4.3	
Confectionery products .....	2065	38.7	38.1	38.8	38.1		1.9	1.6	2.1	1.7	
Fats and oils .....	207	41.9	42.4	40.7	41.0		4.5	4.6	4.4	4.5	
Beverages .....	208	40.8	41.7	40.1	40.3		4.2	4.4	3.5	3.6	
Malt beverages .....	2082	42.4	44.0	41.8	42.4		6.0	6.1	4.9	4.9	
Bottled and canned soft drinks .....	2086	40.7	41.3	40.2	40.1		4.0	4.3	3.3	3.5	
Misc. food and kindred products .....	209	37.6	38.1	38.2	37.6		3.5	3.8	3.7	3.4	
Tobacco manufactures .....	21	35.9	37.2	38.1	37.1	38.8	.8	1.9	2.0	1.6	
Cigarettes .....	211	34.8	36.4	38.5	37.8	-	.5	2.0	2.2	1.8	
Textile mill products .....	22	40.6	40.9	42.0	40.9	41.6	3.7	3.9	4.5	3.7	
Weaving mills, cotton .....	221	41.0	41.2	43.3	42.7	-	4.7	4.9	6.1	5.5	
Weaving mills, synthetics .....	222	40.3	40.4	42.1	41.8		3.1	3.5	4.4	4.1	
Weaving and finishing mills, wool .....	223	40.8	41.7	42.0	41.0		3.3	3.7	2.5	.4	
Narrow fabric mills .....	224	40.8	40.4	41.3	39.4		2.6	2.3	3.8	2.6	
Knitting mills .....	225	39.1	39.8	40.2	38.9		2.9	3.4	3.5	2.6	
Women's hosiery, except socks .....	2251	38.9	39.8	39.6	37.3		2.9	3.6	3.2	1.7	
Hosiery, nec .....	2252	37.3	38.9	40.1	37.3		1.9	2.7	2.8	1.7	
Knit outerwear mills .....	2253	37.9	38.6	38.6	38.0		2.5	3.1	3.1	2.2	
Knit underwear mills .....	2254	39.4	39.7	40.3	39.5		2.0	2.4	3.1	2.2	
Circular knit fabric mills .....	2257	42.2	41.9	43.4	42.8		5.4	5.2	5.5	5.3	
Textile finishing, except wool .....	226	41.5	41.5	42.1	40.8		4.5	4.1	4.9	4.1	
Finishing plants, cotton .....	2261	42.2	41.6	42.5	42.1		4.6	4.2	4.7	4.3	
Finishing plants, synthetics .....	2262	40.5	41.1	42.4	40.4		4.3	4.1	4.9	3.5	
Floor covering mills .....	227	40.1	40.3	42.7	41.0		3.1	3.3	4.3	3.5	
Yarn and thread mills .....	228	41.9	42.5	43.1	42.0		4.5	4.6	5.1	4.6	
Yarn mills, except wool .....	2281	42.6	43.0	44.1	42.8		5.0	5.0	5.7	5.1	
Throwing and winding mills .....	2282	38.4	40.2	38.5	38.5		2.9	3.9	3.1	2.9	
Miscellaneous textile goods .....	229	42.3	42.4	43.4	42.1		4.1	4.1	4.7	4.0	
Apparel and other textile products .....	23	36.5	36.6	37.0	35.9	37.0	1.4	1.4	1.8	1.4	
Men's and boys' suits and coats .....	231	35.1	35.7	35.5	34.3	-	.7	.8	1.0	.6	
Men's and boys' furnishings .....	232	37.1	37.1	37.0	35.9		1.2	1.2	1.5	1.1	
Men's and boys' shirts and nightwear .....	2321	37.5	37.5	37.5	36.5		1.5	1.5	1.6	1.3	
Men's and boys' separate trousers .....	2327	35.7	35.9	36.6	35.4		.8	.8	1.1	.8	
Men's and boys' work clothing .....	2328	36.3	36.3	36.2	35.3		1.1	1.2	1.4	.9	
Women's and misses' outerwear .....	233	35.1	34.8	35.9	34.6		1.3	1.1	1.7	1.3	
Women's and misses' blouses and waists .....	2331	34.5	35.4	35.8	34.6		1.0	1.1	1.4	.9	
Women's and misses' dresses .....	2335	34.4	33.6	36.1	34.3		1.2	.9	1.7	1.3	
Women's and misses' suits and coats .....	2337	33.9	34.6	34.8	33.5		1.0	1.0	1.3	1.1	
Women's and misses' outerwear, nec .....	2339	35.9	35.3	36.1	35.0		1.5	1.3	1.9	1.5	
Women's and children's undergarments .....	234	36.6	36.9	36.8	36.1		1.2	1.2	1.0	.6	
Women's and children's underwear .....	2341	36.7	37.2	37.1	36.3		1.1	1.2	1.0	.5	
Brassieres and allied garments .....	2342	36.1	35.4	35.4	34.9		1.8	1.3	1.1	1.3	
Children's outerwear .....	236	36.9	37.6	36.6	35.9		1.7	2.0	1.7	.9	
Children's dresses and blouses .....	2361	35.7	36.0	35.1	35.4		1.4	1.7	1.5	.8	
Misc. apparel and accessories .....	238	36.6	37.0	38.9	37.9		1.1	1.2	2.4	1.8	
Misc. fabricated textile products .....	239	38.8	38.9	39.7	38.1		2.5	2.5	3.2	2.5	
Curtains and draperies .....	2391	37.0	37.9	38.6	36.7		1.2	1.6	1.8	1.8	
House furnishings, nec .....	2392	37.4	37.7	39.2	37.7		1.7	1.9	2.6	2.0	
Automotive and apparel trimmings .....	2396	41.1	41.2	42.5	40.4		5.1	5.2	6.5	5.0	
Paper and allied products .....	26	42.8	43.0	42.9	42.9	43.4	4.6	4.6	4.7	4.7	
Paper and pulp mills .....	261,2,6	44.9	45.3	45.0	45.7	-	6.4	6.5	6.2	6.5	
Paper mills, except building paper .....	262	45.0	45.4	45.1	45.9		6.5	6.6	6.4	6.6	
Paperboard mills .....	263	44.6	44.1	43.7	44.0		6.9	6.9	6.9	7.1	
Misc. converted paper products .....	264	41.5	41.7	42.0	41.3		3.1	3.1	3.6	3.4	
Paper coating and glazing .....	2641	42.9	43.0	43.9	43.5		3.2	3.3	4.1	3.8	
Envelopes .....	2642	41.7	41.4	41.7	40.9		2.9	2.6	3.0	2.5	
Bags, except textile bags .....	2643	41.1	41.1	41.8	40.9		3.4	3.5	3.7	3.5	
Paperboard containers and boxes .....	265	41.8	41.9	41.8	41.7		3.8	3.8	3.9	3.9	
Folding paperboard boxes .....	2651	42.2	41.9	42.1	41.7		3.7	3.5	4.2	3.9	
Corrugated and solid fiber boxes .....	2653	42.7	42.8	42.2	42.4		4.0	4.0	4.1	4.2	
Sanitary food containers .....	2654	38.6	39.8	41.2	41.2		4.2	4.6	3.9	3.5	

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Sugar and confectionery products .....	206	\$8.89	\$8.94	\$9.11	\$9.21		\$351.16	\$353.13	\$366.22	\$360.11	
Cane and beet sugar .....	2061-3	10.67	10.65	10.67	10.69		432.14	441.98	454.54	440.43	
Confectionery products .....	2065	7.66	7.61	7.87	7.97		296.44	289.94	305.36	303.66	
Fats and oils .....	207	8.76	8.77	9.14	9.20		367.04	371.85	372.00	377.20	
Beverages .....	208	11.61	11.67	11.83	11.89		473.69	486.64	474.38	479.17	
Malt beverages .....	2082	16.11	16.21	16.57	16.66		683.06	713.24	692.63	706.38	
Bottled and canned soft drinks .....	2086	9.08	9.12	9.44	9.49		369.56	376.66	379.49	380.55	
Misc. food and kindred products .....	209	8.00	8.00	8.28	8.23		300.80	304.80	316.30	309.45	
Tobacco manufactures .....	21	12.96	13.49	13.80	14.28	\$14.61	465.26	501.83	525.78	529.79	\$566.87
Cigarettes .....	211	15.22	15.67	16.23	16.32	-	529.66	570.39	624.86	616.90	-
Textile mill products .....	22	6.87	6.87	7.12	7.13	7.13	278.92	280.98	299.04	291.62	296.61
Weaving mills, cotton .....	221	7.17	7.17	7.44	7.46	-	293.97	295.40	322.15	318.54	-
Weaving mills, synthetics .....	222	7.30	7.36	7.62	7.64		294.19	297.34	320.80	319.35	
Weaving and finishing mills, wool .....	223	7.23	7.33	7.58	7.62		294.98	305.66	318.36	312.42	
Narrow fabric mills .....	224	6.52	6.53	6.71	6.75		266.02	263.81	277.12	265.95	
Knitting mills .....	225	6.36	6.36	6.49	6.48		248.68	253.13	260.90	252.07	
Women's hosiery, except socks .....	2251	6.23	6.32	6.37	6.20		242.35	251.54	252.25	231.26	
Hosiery, nec .....	2252	6.01	6.01	6.14	6.13		224.17	233.79	246.21	228.65	
Knit outerwear mills .....	2253	6.32	6.35	6.46	6.51		239.53	245.11	249.36	247.38	
Knit underwear mills .....	2254	5.92	5.83	6.13	6.08		233.25	231.45	247.04	240.16	
Circular knit fabric mills .....	2257	6.94	6.87	7.12	7.10		292.87	287.85	309.01	303.88	
Textile finishing, except wool .....	226	7.25	7.19	7.41	7.43		300.88	298.39	311.96	303.14	
Finishing plants, cotton .....	2261	7.21	7.21	7.40	7.40		304.26	299.94	314.50	311.54	
Finishing plants, synthetics .....	2262	7.64	7.57	7.66	7.71		309.42	311.13	324.78	311.48	
Floor covering mills .....	227	7.05	7.09	7.57	7.51		282.71	285.73	323.24	307.91	
Yarn and thread mills .....	228	6.45	6.42	6.69	6.70		270.26	272.85	288.34	281.40	
Yarn mills, except wool .....	2281	6.45	6.41	6.71	6.72		274.77	275.63	295.91	287.62	
Throwing and winding mills .....	2282	6.47	6.45	6.60	6.67		248.45	259.29	254.10	256.80	
Miscellaneous textile goods .....	229	7.78	7.81	8.16	8.19		329.09	331.14	354.14	344.80	
Apparel and other textile products .....	23	5.83	5.81	5.93	5.94	5.87	212.80	212.65	219.41	213.25	217.19
Men's and boys' suits and coats .....	231	6.65	6.56	6.67	6.87	-	233.42	234.19	236.79	235.64	-
Men's and boys' furnishings .....	232	5.40	5.36	5.43	5.48		200.34	198.86	200.91	196.73	
Men's and boys' shirts and nightwear .....	2321	5.16	5.11	5.21	5.28		193.50	191.63	193.38	192.72	
Men's and boys' separate trousers .....	2327	5.28	5.23	5.30	5.34		188.50	187.76	193.98	189.04	
Men's and boys' work clothing .....	2328	5.51	5.48	5.55	5.57		200.01	198.92	200.91	196.62	
Women's and misses' outerwear .....	233	5.59	5.58	5.72	5.70		196.21	194.18	205.35	197.22	
Women's and misses' blouses and waists .....	2331	5.09	5.07	5.06	5.00		175.61	179.48	181.15	173.00	
Women's and misses' dresses .....	2335	5.80	5.77	6.06	5.99		199.52	193.87	218.77	205.46	
Women's and misses' suits and coats .....	2337	6.54	6.43	6.46	6.46		221.71	222.48	224.81	216.41	
Women's and misses' outerwear, nec .....	2339	5.41	5.42	5.58	5.60		194.22	191.33	201.44	196.00	
Women's and children's undergarments .....	234	5.39	5.38	5.42	5.50		197.27	198.52	199.46	198.55	
Women's and children's underwear .....	2341	5.23	5.23	5.25	5.32		191.94	194.56	194.78	193.12	
Brassieres and allied garments .....	2342	6.16	6.17	6.31	6.43		222.38	218.42	223.37	224.41	
Children's outerwear .....	236	5.19	5.15	5.22	5.21		191.51	193.64	191.05	187.04	
Children's dresses and blouses .....	2361	4.98	4.93	5.02	4.98		177.79	177.48	176.20	176.29	
Misc. apparel and accessories .....	238	5.59	5.53	5.66	5.61		204.59	204.61	220.17	212.62	
Misc. fabricated textile products .....	239	7.19	7.20	7.31	7.27		278.97	280.08	290.21	276.99	
Curtains and draperies .....	2391	5.51	5.54	5.73	5.86		203.87	209.97	221.18	215.06	
House furnishings, nec .....	2392	5.93	5.94	6.03	6.07		221.78	223.94	236.38	228.84	
Automotive and apparel trimmings .....	2396	11.37	11.41	11.38	11.20		467.31	470.09	483.65	452.48	
Paper and allied products .....	26	11.08	11.15	11.27	11.36	11.41	474.22	479.45	483.48	487.34	495.19
Paper and pulp mills .....	261,2,6	13.42	13.53	13.77	13.86	-	602.56	612.91	619.65	633.40	-
Paper mills, except building paper .....	262	13.50	13.61	13.85	13.93		607.50	617.89	624.64	639.39	
Paperboard mills .....	263	13.92	13.98	14.13	14.24		620.83	616.52	617.48	626.56	
Misc. converted paper products .....	264	9.55	9.59	9.77	9.87		396.33	399.90	410.34	407.63	
Paper coating and glazing .....	2641	10.88	10.92	10.93	11.05		466.75	469.56	479.83	480.68	
Envelopes .....	2642	8.63	8.70	9.04	9.05		359.87	360.18	376.97	370.15	
Bags, except textile bags .....	2643	9.08	9.01	9.02	9.16		373.19	370.31	377.04	374.64	
Paperboard containers and boxes .....	265	9.49	9.53	9.59	9.62		396.68	399.31	400.86	401.15	
Folding paperboard boxes .....	2651	9.81	9.86	10.06	10.15		413.98	413.13	423.53	423.26	
Corrugated and solid fiber boxes .....	2653	9.73	9.80	9.77	9.74		415.47	419.44	412.29	412.98	
Sanitary food containers .....	2654	9.20	9.14	9.26	9.27		355.12	363.77	381.51	381.92	

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1986	May 1986	Mar. 1967	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	37.9	37.8	38.0	37.7	37.9	2.7	2.6	3.0	2.8	
Newspapers .....	271	33.5	33.9	33.5	33.5	-	1.5	1.7	1.3	1.5	
Periodicals .....	272	38.0	37.6	39.2	38.8		2.4	2.3	2.9	3.0	
Books .....	273	40.8	40.7	38.7	38.5		4.1	4.0	4.0	3.9	
Book publishing .....	2731	39.8	40.1	38.2	37.8		3.7	3.6	3.8	3.6	
Book printing .....	2732	42.4	41.7	39.4	39.6		4.7	4.6	4.3	4.3	
Miscellaneous publishing .....	274	36.1	36.3	36.8	37.0		1.6	1.9	2.8	3.0	
Commercial printing .....	275	39.2	38.9	39.6	39.3		3.2	2.9	3.6	3.2	
Commercial printing, letterpress .....	2751	38.7	38.4	39.4	38.8		2.7	2.5	3.1	2.8	
Commercial printing, lithographic .....	2752	39.3	39.1	39.5	39.3		3.3	3.1	3.8	3.3	
Manifold business forms .....	276	40.4	40.7	40.9	40.3		3.1	3.2	3.0	2.6	
Blankbooks and bookbinding .....	278	38.2	38.3	38.2	37.3		1.6	1.7	2.3	1.8	
Printing trade services .....	279	39.0	38.3	38.4	37.7		3.4	3.1	3.7	2.9	
Chemicals and allied products .....	28	41.8	41.9	42.1	42.2	42.0	3.6	3.5	3.9	3.8	
Industrial inorganic chemicals .....	281	41.5	41.6	42.2	42.2	-	3.4	3.3	3.8	4.0	
Industrial inorganic chemicals, nec .....	2819	42.1	42.1	42.9	42.8		3.4	3.2	3.8	3.8	
Plastics materials and synthetics .....	282	42.2	42.6	42.8	42.9		3.9	4.0	4.2	4.1	
Plastics materials and resins .....	2821	43.5	43.5	43.7	43.7		4.9	4.5	4.7	4.5	
Organic fibers, noncellulosic .....	2824	41.7	42.6	41.8	42.5		3.3	3.8	3.5	3.8	
Drugs .....	283	41.3	40.8	41.5	41.7		3.0	2.7	3.1	2.8	
Pharmaceutical preparations .....	2834	41.3	41.2	41.9	41.6		3.0	2.8	3.3	2.9	
Soap, cleaners, and toilet goods .....	284	40.7	41.1	41.1	40.5		2.9	3.0	3.3	2.7	
Soap and other detergents .....	2841	43.2	44.2	43.6	42.3		3.9	4.5	5.2	4.2	
Polishing, sanitation, and finishing preparations .....	2842,3	41.8	41.5	40.8	40.8		3.1	2.6	2.9	2.5	
Toilet preparations .....	2844	38.6	39.0	39.9	39.3		2.3	2.2	2.4	2.0	
Paints and allied products .....	285	41.7	42.1	41.6	41.2		3.6	3.8	3.5	3.2	
Industrial organic chemicals .....	286	43.3	43.5	43.5	43.9		4.1	4.4	5.0	5.4	
Cyclic crudes and intermediates .....	2865	43.6	43.0	42.6	43.6		4.8	4.5	5.1	5.3	
Gum, wood, and industrial organic chemicals, nec .....	2861,9	43.2	43.7	43.7	44.0		3.9	4.3	5.0	5.4	
Agricultural chemicals .....	287	42.8	42.3	43.0	43.5		5.0	4.7	4.9	5.5	
Miscellaneous chemical products .....	289	41.0	41.2	41.2	41.4		3.3	3.4	3.2	3.2	
Petroleum and coal products .....	29	43.7	43.4	43.9	43.6	44.1	4.4	4.0	5.1	4.9	
Petroleum refining .....	291	44.0	43.3	44.2	43.7	-	4.1	3.4	4.9	4.5	
Paving and roofing materials .....	295	44.0	44.8	43.6	44.4		6.3	7.0	6.7	7.1	
Rubber and misc. plastics products .....	30	41.0	41.1	41.5	40.9	41.5	3.5	3.6	3.8	3.5	
Tires and inner tubes .....	301	41.9	42.7	42.5	42.8	-	3.9	4.9	4.3	4.1	
Rubber and plastics footwear .....	302	39.2	38.6	41.5	40.6		1.7	1.0	2.1	1.5	
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	42.7	42.5	41.3	40.3		3.4	3.3	2.6	2.3	
Fabricated rubber products, nec .....	306	41.0	41.0	41.6	40.1		3.1	3.0	3.7	3.0	
Miscellaneous plastics products .....	307	40.9	41.0	41.3	40.7		3.6	3.6	3.9	3.5	
Leather and leather products .....	31	36.3	36.8	37.5	36.6	38.0	1.1	1.2	1.8	1.6	
Leather tanning and finishing .....	311	40.8	41.3	41.8	41.5	-	3.6	3.6	4.6	4.5	
Footwear, except rubber .....	314	35.2	35.7	36.8	35.7		.7	.8	1.5	1.4	
Men's footwear, except athletic .....	3143	35.3	35.4	37.7	36.1		.6	.8	1.5	1.3	
Women's footwear, except athletic .....	3144	34.8	35.8	35.4	35.0		.7	.9	1.6	1.6	
Luggage .....	316	39.9	39.8	38.9	39.2		2.7	2.1	1.3	1.3	
Handbags and personal leather goods .....	317	36.3	38.5	37.2	35.0		.5	.4	1.8	1.5	
<b>Transportation and public utilities</b> .....		39.0	39.0	38.9	38.8	39.0					
Railroad transportation:											
Class I railroads <sup>2</sup> .....	4011	42.8	43.2	43.5	43.3						
Local and interurban passenger transit .....	41	33.8	34.3	33.9	34.0						
Local and suburban transportation .....	411	38.7	38.4	38.7	39.3						
Intercity highway transportation .....	413	38.7	38.8	38.2	41.0						
Trucking and warehousing .....	42	37.9	38.0	38.2	38.1						
Trucking and trucking terminals .....	421,3	38.0	38.1	38.2	36.1						
Public warehousing .....	422	37.1	37.9	38.0	37.9						
Pipe lines, except natural gas .....	46	40.8	40.8	40.7	41.1						

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	\$9.89	\$9.94	\$10.17	\$10.16	\$10.20	\$374.83	\$375.73	\$386.46	\$383.03	\$386.58
Newspapers .....	271	9.98	10.04	10.02	10.10	-	334.33	340.36	335.67	338.35	-
Periodicals .....	272	10.51	10.60	10.67	10.80	-	399.38	398.56	418.26	419.04	-
Books .....	273	8.77	8.89	9.18	9.14	-	357.82	361.82	355.27	351.89	-
Book publishing .....	2731	8.27	8.40	8.73	8.72	-	329.15	336.84	333.49	329.62	-
Book printing .....	2732	9.56	9.65	9.92	9.82	-	405.34	402.41	390.85	388.87	-
Miscellaneous publishing .....	274	8.88	8.94	9.10	9.10	-	320.57	324.52	334.88	336.70	-
Commercial printing .....	275	10.18	10.21	10.52	10.46	-	399.06	397.17	416.59	411.08	-
Commercial printing, letterpress .....	2751	9.80	9.80	10.10	10.09	-	379.26	376.32	397.94	391.49	-
Commercial printing, lithographic .....	2752	10.32	10.36	10.71	10.61	-	405.58	405.08	423.05	416.97	-
Manifold business forms .....	276	10.30	10.30	10.50	10.61	-	416.12	419.21	429.45	427.58	-
Blankbooks and bookbinding .....	278	7.83	7.85	8.10	8.03	-	299.11	300.66	309.42	299.52	-
Printing trade services .....	279	11.86	11.87	12.49	12.44	-	462.54	454.62	479.62	468.99	-
Chemicals and allied products .....	28	11.84	11.90	12.24	12.28	12.31	494.91	498.61	515.30	518.22	517.02
Industrial inorganic chemicals .....	281	12.96	13.05	13.42	13.49	-	537.84	542.88	566.32	569.28	-
Industrial inorganic chemicals, nec .....	2819	13.06	13.11	13.52	13.58	-	549.83	551.93	580.01	581.22	-
Plastics materials and synthetics .....	282	12.05	12.02	12.37	12.42	-	508.51	512.05	529.44	532.82	-
Plastics materials and resins .....	2821	13.09	13.12	13.31	13.48	-	569.42	570.72	581.65	589.08	-
Organic fibers, noncellulosic .....	2824	11.68	11.53	11.90	11.81	-	487.06	491.18	497.42	501.93	-
Drugs .....	283	11.07	11.16	11.51	11.50	-	457.19	455.33	477.67	479.55	-
Pharmaceutical preparations .....	2834	10.79	10.85	11.12	11.24	-	445.63	447.02	465.93	467.58	-
Soap, cleaners, and toilet goods .....	284	10.62	10.73	10.89	10.90	-	432.23	441.00	447.58	441.45	-
Soap and other detergents .....	2841	13.69	13.74	14.06	14.04	-	591.41	607.31	613.02	593.89	-
Polishing, sanitation, and finishing preparations .....	2842,3	9.96	9.97	10.10	10.07	-	416.33	413.76	412.08	410.86	-
Toilet preparations .....	2844	8.89	9.04	9.31	9.36	-	343.15	352.56	371.47	367.85	-
Paints and allied products .....	285	10.40	10.42	10.74	10.75	-	433.68	438.68	446.78	442.90	-
Industrial organic chemicals .....	286	14.11	14.28	14.72	14.83	-	610.96	621.18	640.32	651.04	-
Cyclic crudes and intermediates .....	2865	13.90	14.06	14.43	14.58	-	606.04	604.58	614.72	635.69	-
Gum, wood, and industrial organic chemicals, nec .....	2861,9	14.18	14.35	14.81	14.90	-	612.58	627.10	647.20	655.60	-
Agricultural chemicals .....	287	10.97	10.91	11.64	11.53	-	469.52	461.49	500.52	501.56	-
Miscellaneous chemical products .....	289	11.12	11.08	11.22	11.32	-	455.92	456.50	462.26	468.65	-
Petroleum and coal products .....	29	14.14	14.00	14.50	14.49	14.55	617.92	607.60	636.55	631.76	641.66
Petroleum refining .....	291	15.34	15.20	15.62	15.68	-	674.96	658.16	690.40	685.22	-
Paving and roofing materials .....	295	10.62	10.88	11.21	11.27	-	467.28	487.42	488.76	500.39	-
Rubber and misc. plastics products .....	30	8.64	8.71	8.80	8.82	8.81	354.24	357.98	365.20	360.74	365.62
Tires and inner tubes .....	301	13.48	13.78	13.87	13.71	-	564.81	588.41	589.48	586.79	-
Rubber and plastics footwear .....	302	6.03	5.94	5.87	5.99	-	236.38	229.28	243.61	243.19	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	8.43	8.45	8.85	8.89	-	359.96	359.13	365.51	358.27	-
Fabricated rubber products, nec .....	306	8.46	8.47	8.47	8.52	-	346.86	347.27	352.35	341.65	-
Miscellaneous plastics products .....	307	8.02	8.07	8.19	8.22	-	328.02	330.87	338.25	334.55	-
Leather and leather products .....	31	5.91	5.90	6.06	6.14	6.04	214.53	217.12	227.25	224.72	229.52
Leather tanning and finishing .....	311	7.63	7.72	8.10	8.12	-	311.30	318.84	338.58	336.98	-
Footwear, except rubber .....	314	5.61	5.58	5.75	5.86	-	197.47	199.21	211.60	209.20	-
Men's footwear, except athletic .....	3143	5.95	5.94	6.19	6.31	-	210.04	210.28	233.36	227.79	-
Women's footwear, except athletic .....	3144	5.32	5.29	5.36	5.45	-	185.14	189.38	189.74	190.75	-
Luggage .....	316	6.26	6.15	6.32	6.28	-	249.77	244.77	245.85	246.18	-
Handbags and personal leather goods .....	317	5.61	5.67	5.81	5.82	-	203.64	206.96	216.13	203.70	-
<b>Transportation and public utilities .....</b>		<b>11.61</b>	<b>11.58</b>	<b>11.90</b>	<b>11.90</b>	<b>11.91</b>	<b>452.79</b>	<b>451.62</b>	<b>462.91</b>	<b>461.72</b>	<b>464.49</b>
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	13.69	13.79	14.13	14.13	-	585.93	595.73	614.66	611.83	-
Local and interurban passenger transit .....	41	7.89	7.86	8.16	8.28	-	266.68	269.60	276.62	281.52	-
Local and suburban transportation .....	411	8.42	8.34	8.80	8.95	-	325.85	320.26	340.56	351.74	-
Intercity highway transportation .....	413	11.62	11.55	11.55	11.60	-	449.69	448.14	441.21	475.60	-
Trucking and warehousing .....	42	10.77	10.75	10.77	10.79	-	408.18	408.50	411.41	411.10	-
Trucking and trucking terminals .....	421,3	10.94	10.92	10.95	10.97	-	415.72	416.05	418.29	417.96	-
Public warehousing .....	422	8.43	8.47	8.27	8.36	-	312.75	321.01	314.26	316.84	-
Pipe lines, except natural gas .....	46	15.17	15.00	15.35	15.27	-	618.94	612.00	624.75	627.60	-

See footnotes at end of table.



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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	39.8	39.8	39.5	39.7						
Telephone communication .....	481	41.0	41.1	40.6	40.9						
Radio and television broadcasting .....	483	36.3	36.3	36.4	36.3						
Electric, gas, and sanitary services .....	49	41.8	41.8	41.0	41.2						
Electric services .....	491	42.0	41.8	40.6	41.0						
Gas production and distribution .....	492	40.7	40.9	40.4	40.6						
Combination utility services .....	493	42.0	41.8	42.0	42.2						
Sanitary services .....	495	43.5	43.4	41.8	41.9						
<b>Wholesale trade .....</b>		<b>38.3</b>	<b>38.4</b>	<b>37.9</b>	<b>38.1</b>	<b>38.2</b>					
Durable goods .....	50	38.8	38.8	38.5	38.5						
Motor vehicles and automotive equipment .....	501	38.4	38.5	38.0	38.2						
Furniture and home furnishings .....	502	36.9	36.9	37.1	36.7						
Lumber and construction materials .....	503	39.3	39.9	38.8	39.2						
Sporting goods, toys, and hobby goods .....	504	36.7	36.7	36.6	36.4						
Metals and minerals, except petroleum .....	505	40.0	40.3	40.5	40.4						
Electrical goods .....	506	38.2	38.2	38.2	38.3						
Hardware, plumbing, and heating equipment .....	507	38.5	38.5	38.0	38.2						
Machinery, equipment, and supplies .....	508	39.4	39.4	38.9	38.9						
Miscellaneous durable goods .....	509	37.7	37.4	38.0	37.7						
Nondurable goods .....	51	37.5	37.8	37.2	37.4						
Paper and paper products .....	511	36.7	37.1	36.8	36.7						
Drugs, proprietaries, and sundries .....	512	37.1	37.0	37.3	37.0						
Apparel, piece goods, and notions .....	513	36.0	36.1	36.3	36.1						
Groceries and related products .....	514	37.8	38.2	37.5	37.9						
Chemicals and allied products .....	516	39.2	39.3	39.2	38.9						
Petroleum and petroleum products .....	517	39.1	39.0	38.8	38.8						
Beer, wine, and distilled beverages .....	518	35.9	36.2	35.7	36.1						
Miscellaneous nondurable goods .....	519	37.5	37.7	36.7	37.2						
<b>Retail trade .....</b>		<b>28.9</b>	<b>29.1</b>	<b>28.9</b>	<b>29.2</b>	<b>29.3</b>					
Building materials and garden supplies .....	52	36.1	36.4	36.3	36.5						
Lumber and other building materials .....	521	38.1	38.4	38.1	38.1						
Hardware stores .....	525	32.8	32.6	32.7	33.1						
General merchandise stores .....	53	28.2	28.5	27.7	28.4						
Department stores .....	531	28.0	28.4	27.5	28.2						
Variety stores .....	533	29.2	29.3	28.4	29.2						
Misc. general merchandise stores .....	539	29.1	29.2	29.2	29.8						
Food stores .....	54	29.5	29.9	29.4	30.2						
Grocery stores .....	541	29.7	30.1	29.6	30.4						
Retail bakeries .....	546	28.8	28.9	27.1	27.4						
Automotive dealers and service stations .....	55	36.4	36.6	36.3	36.5						
New and used car dealers .....	551,2	37.3	37.3	37.3	37.3						
Auto and home supply stores .....	553	39.2	39.5	38.8	39.2						
Gasoline service stations .....	554	33.8	34.0	33.7	34.0						
Apparel and accessory stores .....	56	26.7	26.6	26.1	27.0						
Men's and boys' clothing and furnishings .....	561	29.1	29.4	29.1	30.1						
Women's ready-to-wear stores .....	562	25.5	25.4	25.2	25.8						
Family clothing stores .....	565	26.9	27.0	26.3	27.2						
Shoe stores .....	566	27.4	26.9	26.8	28.5						
Furniture and home furnishings stores .....	57	32.7	32.5	32.9	32.7						
Furniture and home furnishings stores .....	571	32.8	32.6	32.6	32.6						
Household appliance stores .....	572	33.5	33.7	33.4	33.5						
Radio, television, and music stores .....	573	32.2	32.0	33.1	32.6						
Eating and drinking places <sup>4</sup> .....	58	25.3	25.4	25.6	25.7						

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	\$12.05	\$12.04	\$12.27	\$12.29		\$479.59	\$479.19	\$484.67	\$487.91	
Telephone communication .....	481	12.70	12.72	13.05	13.02		520.70	522.79	529.83	532.52	
Radio and television broadcasting .....	483	10.79	10.62	10.66	10.84		391.68	385.51	388.02	393.49	
Electric, gas, and sanitary services .....	49	13.24	13.30	13.76	13.67		553.43	555.94	564.16	563.20	
Electric services .....	491	13.31	13.41	13.77	13.73		559.02	560.54	559.06	562.93	
Gas production and distribution .....	492	12.35	12.41	12.98	12.92		502.65	507.57	524.39	524.55	
Combination utility services .....	493	15.43	15.50	16.14	15.92		648.06	647.90	677.88	671.82	
Sanitary services .....	495	9.63	9.65	9.96	9.99		418.91	418.81	416.33	418.58	
<b>Wholesale trade .....</b>		<b>9.30</b>	<b>9.30</b>	<b>9.53</b>	<b>9.53</b>	<b>\$9.57</b>	<b>356.19</b>	<b>357.12</b>	<b>361.19</b>	<b>363.09</b>	<b>\$365.57</b>
Durable goods .....	50	9.39	9.42	9.64	9.64		364.33	365.50	371.14	371.14	
Motor vehicles and automotive equipment .....	501	8.36	8.38	8.58	8.58		321.02	322.63	326.04	327.76	
Furniture and home furnishings .....	502	8.53	8.59	8.83	8.93		314.76	316.97	327.59	327.73	
Lumber and construction materials .....	503	8.88	8.95	9.10	9.15		348.98	357.11	353.08	358.68	
Sporting goods, toys, and hobby goods .....	504	9.72	9.64	9.80	9.81		356.72	353.79	358.68	357.08	
Metals and minerals, except petroleum .....	505	10.17	10.16	10.34	10.24		406.80	409.45	418.77	413.70	
Electrical goods .....	506	9.63	9.66	9.91	9.92		367.87	369.01	378.56	379.94	
Hardware, plumbing, and heating equipment .....	507	8.89	8.95	9.16	9.19		342.27	344.58	348.08	351.06	
Machinery, equipment, and supplies .....	508	10.00	10.02	10.30	10.29		394.00	394.79	400.67	400.28	
Miscellaneous durable goods .....	509	7.57	7.56	7.73	7.66		285.39	282.74	293.74	288.78	
Nondurable goods .....	51	9.15	9.14	9.37	9.37		343.13	345.49	348.56	350.44	
Paper and paper products .....	511	9.99	9.95	10.02	10.03		366.63	369.15	368.74	368.10	
Drugs, proprietaries, and sundries .....	512	10.47	10.48	10.73	10.77		388.44	387.76	400.23	398.49	
Apparel, piece goods, and notions .....	513	8.82	8.82	9.17	9.20		317.52	318.40	332.87	332.12	
Groceries and related products .....	514	9.27	9.23	9.48	9.48		350.41	352.59	355.50	359.29	
Chemicals and allied products .....	516	11.33	11.34	11.97	12.10		444.14	445.66	469.22	470.69	
Petroleum and petroleum products .....	517	9.76	9.69	9.73	9.63		381.62	377.91	377.52	373.64	
Beer, wine, and distilled beverages .....	518	10.86	11.00	10.97	11.05		389.87	398.20	391.63	398.91	
Miscellaneous nondurable goods .....	519	7.44	7.43	7.67	7.67		279.00	280.11	281.49	285.32	
<b>Retail trade .....</b>		<b>6.02</b>	<b>6.01</b>	<b>6.08</b>	<b>6.09</b>	<b>6.09</b>	<b>173.98</b>	<b>174.89</b>	<b>175.71</b>	<b>177.83</b>	<b>178.44</b>
Building materials and garden supplies .....	52	6.74	6.75	6.92	6.93		243.31	245.70	251.20	252.95	
Lumber and other building materials .....	521	7.12	7.12	7.25	7.29		271.27	273.41	276.23	277.75	
Hardware stores .....	525	5.77	5.76	5.88	5.92		189.26	187.78	192.28	195.95	
General merchandise stores .....	53	6.27	6.29	6.43	6.45		176.81	179.27	178.11	183.18	
Department stores .....	531	6.56	6.58	6.73	6.75		183.68	186.87	185.08	190.35	
Variety stores .....	533	4.70	4.71	4.81	4.81		137.24	138.00	136.60	140.45	
Misc. general merchandise stores .....	539	4.90	4.89	5.07	5.03		142.59	142.79	148.04	149.89	
Food stores .....	54	7.15	7.08	6.95	6.96		210.93	211.69	204.33	210.19	
Grocery stores .....	541	7.33	7.26	7.10	7.12		217.70	218.53	210.16	216.45	
Retail bakeries .....	546	5.45	5.45	5.53	5.55		156.96	157.51	149.86	152.07	
Automotive dealers and service stations .....	55	7.62	7.68	7.67	7.72		277.37	281.09	278.42	281.78	
New and used car dealers .....	551,2	9.26	9.40	9.31	9.39		345.40	350.62	347.26	350.25	
Auto and home supply stores .....	553	6.57	6.58	6.58	6.61		257.54	259.91	255.30	259.11	
Gasoline service stations .....	554	5.41	5.41	5.45	5.48		182.86	183.94	183.67	186.32	
Apparel and accessory stores .....	56	5.36	5.37	5.48	5.54		143.11	142.84	143.03	149.58	
Men's and boys' clothing and furnishings .....	561	6.20	6.27	6.30	6.63		180.42	184.34	183.33	199.56	
Women's ready-to-wear stores .....	562	5.10	5.08	5.17	5.24		130.05	129.03	130.28	135.19	
Family clothing stores .....	565	5.26	5.30	5.49	5.43		141.49	143.10	144.39	147.70	
Shoe stores .....	566	5.44	5.40	5.45	5.57		149.06	145.26	146.06	158.75	
Furniture and home furnishings stores .....	57	7.25	7.27	7.33	7.44		237.08	236.28	241.16	243.29	
Furniture and home furnishings stores .....	571	7.29	7.31	7.49	7.55		239.11	238.31	244.17	246.13	
Household appliance stores .....	572	7.44	7.41	7.24	7.21		249.24	249.72	241.82	241.54	
Radio, television, and music stores .....	573	7.10	7.14	7.09	7.33		228.62	228.48	234.68	238.96	
Eating and drinking places <sup>4</sup> .....	58	4.35	4.34	4.39	4.38		110.06	110.24	112.38	112.57	

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	29.9	30.3	29.8	30.2						
Drug stores and proprietary stores .....	591	28.1	28.3	27.7	27.9						
Miscellaneous shopping goods stores .....	594	28.2	28.3	28.1	28.5						
Nonstore retailers .....	596	32.4	32.8	32.9	33.2						
Fuel and ice dealers .....	598	37.7	37.9	38.6	37.7						
Retail stores, nec .....	599	31.9	33.0	31.2	32.7						
<b>Finance, insurance, and real estate<sup>2</sup></b> .....		<b>36.3</b>	<b>36.2</b>	<b>36.3</b>	<b>36.3</b>	<b>36.3</b>					
Banking .....	60	36.4	36.2	36.0	35.9						
Commercial and stock savings banks .....	602	36.3	36.2	36.0	35.9						
Credit agencies other than banks .....	61	36.7	36.6	36.6	36.9						
Savings and loan associations .....	612	36.1	35.8	36.0	36.3						
Personal credit institutions .....	614	36.0	36.1	36.2	36.6						
Insurance carriers .....	63	37.5	37.3	37.6	37.4						
Life insurance .....	631	37.0	36.7	37.0	37.0						
Medical service and health insurance .....	632	37.9	37.8	38.1	38.2						
Fire, marine, and casualty insurance .....	633	37.6	37.5	37.5	37.3						
<b>Services</b> .....		<b>32.5</b>	<b>32.5</b>	<b>32.4</b>	<b>32.3</b>	<b>32.3</b>					
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>4</sup> .....	701	30.5	30.5	30.6	30.1						
Personal services:											
Laundry, cleaning, and garment services .....	721	34.0	34.3	33.8	34.3						
Beauty shops <sup>4</sup> .....	723	29.5	29.9	29.8	29.8						
Business services .....	73	33.7	33.7	33.4	33.3						
Advertising .....	731	36.2	36.1	36.0	36.4						
Services to buildings .....	734	28.5	28.9	28.6	28.5						
Computer and data processing services .....	737	39.2	38.1	37.2	37.3						
Auto repair, services, and garages .....	75	37.2	37.5	36.8	36.9						
Automotive repair shops .....	753	38.4	38.7	38.2	38.3						
Miscellaneous repair services .....	76	37.8	37.9	37.5	37.8						
Motion pictures .....	78	26.9	26.7	28.6	27.8						
Motion picture production and services .....	781	34.5	35.2	36.4	34.9						
Amusement and recreation services .....	79	27.8	28.0	28.2	28.2						
Health services .....	80	32.3	32.2	32.2	32.2						
Offices of physicians .....	801	30.9	30.7	30.7	30.7						
Offices of dentists .....	802	28.1	28.1	28.1	28.2						
Nursing and personal care facilities .....	805	31.1	31.0	31.2	31.2						
Hospitals .....	806	34.1	34.1	34.1	34.0						
Legal services .....	81	34.7	34.6	34.2	34.5						
Miscellaneous services .....	89	39.6	38.5	39.0	39.2						
Engineering and architectural services .....	891	39.8	39.7	39.5	39.3						
Accounting, auditing, and bookkeeping .....	893	40.3	37.2	39.2	40.0						

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	\$6.11	\$6.10	\$6.31	\$6.31		\$182.69	\$184.83	\$188.04	\$190.56	
Drug stores and proprietary stores .....	591	5.56	5.61	5.84	5.85		156.24	158.76	161.77	163.22	
Miscellaneous shopping goods stores .....	594	5.74	5.74	5.87	5.87		161.87	162.44	164.95	167.30	
Nonstore retailers .....	596	6.89	6.89	7.09	7.19		223.24	225.99	233.26	238.71	
Fuel and ice dealers .....	598	8.64	8.61	9.10	8.98		325.73	326.32	351.26	338.55	
Retail stores, nec .....	599	6.38	6.28	6.46	6.49		203.52	207.24	201.55	212.22	
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		8.31	8.31	8.72	8.67	\$8.65	301.65	300.82	316.54	314.72	\$314.00
Banking .....	60	7.13	7.14	7.50	7.46		259.53	258.47	270.00	267.81	
Commercial and stock savings banks .....	602	6.95	6.95	7.25	7.20		252.29	251.59	261.00	258.48	
Credit agencies other than banks .....	61	7.43	7.51	7.90	7.86		272.68	274.87	289.14	290.03	
Savings and loan associations .....	612	6.88	6.92	7.31	7.32		248.37	247.74	263.16	265.72	
Personal credit institutions .....	614	7.13	7.15	7.44	7.36		256.68	258.12	269.33	269.38	
Insurance carriers .....	63	8.99	9.01	9.53	9.53		337.13	336.07	358.33	356.42	
Life insurance .....	631	8.52	8.53	9.08	9.11		315.24	313.05	335.96	337.07	
Medical service and health insurance .....	632	8.98	9.03	9.44	9.33		340.34	341.33	359.66	356.41	
Fire, marine, and casualty insurance .....	633	9.36	9.42	9.83	9.88		351.94	353.25	368.63	368.52	
<b>Services</b> .....		8.13	8.10	8.41	8.39	8.38	264.23	263.25	272.48	271.00	270.67
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>4</sup> .....	701	5.96	5.95	6.07	6.08		181.78	181.48	185.74	183.01	
Personal services:											
Laundry, cleaning, and garment services .....	721	5.96	5.96	6.08	6.08		202.64	204.43	205.50	208.54	
Beauty shops <sup>4</sup> .....	723	6.12	6.19	6.19	6.38		180.54	185.08	184.46	190.12	
Business services .....	73	8.42	8.41	8.61	8.62		283.75	283.42	287.57	287.05	
Advertising .....	731	11.26	11.26	11.69	11.58		407.61	406.49	420.84	421.51	
Services to buildings .....	734	6.44	6.48	6.60	6.71		183.54	187.27	188.76	191.24	
Computer and data processing services .....	737	11.39	11.52	11.99	11.95		446.49	438.91	446.03	445.74	
Auto repair, services, and garages .....	75	7.52	7.52	7.72	7.76		279.74	282.00	284.10	286.34	
Automotive repair shops .....	753	8.11	8.15	8.34	8.37		311.42	315.41	318.59	320.57	
Miscellaneous repair services .....	76	8.82	8.80	8.98	8.96		333.40	333.52	336.75	338.69	
Motion pictures .....	78	12.07	11.53	12.15	11.92		324.68	307.85	347.49	331.38	
Motion picture production and services .....	781	16.67	16.10	16.14	16.10		575.12	566.72	587.50	561.89	
Amusement and recreation services .....	79	7.19	6.91	7.40	7.33		199.88	193.48	208.68	206.71	
Health services .....	80	8.28	8.29	8.57	8.59		267.44	266.94	275.95	276.60	
Offices of physicians .....	801	8.13	8.13	8.31	8.29		251.22	249.59	255.12	254.50	
Offices of dentists .....	802	8.27	8.25	8.44	8.46		232.39	231.83	237.16	238.57	
Nursing and personal care facilities .....	805	5.77	5.78	5.90	5.92		179.45	179.18	184.08	184.70	
Hospitals .....	806	9.25	9.27	9.66	9.72		315.43	316.11	329.41	330.48	
Legal services .....	81	11.03	11.02	11.92	11.69		382.74	381.29	407.66	403.31	
Miscellaneous services .....	89	11.50	11.68	11.93	11.79		455.40	449.68	465.27	462.17	
Engineering and architectural services .....	891	12.67	12.65	12.98	12.87		504.27	502.21	512.71	505.79	
Accounting, auditing, and bookkeeping .....	893	9.49	9.76	10.06	9.91		382.45	363.07	394.35	396.40	

<sup>1</sup> 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.

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

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

<sup>4</sup> Money payments only; tips, not included.

<sup>5</sup> Data for nonoffice sales agents are excluded from all series in this division.

- Data not available.

<sup>P</sup> = preliminary.

NOTE: Data in this table have been revised to reflect March 1986 benchmarks and may differ slightly from data previously published. See the article in this issue for additional information.

## A Note on Average Hourly Earnings in Aircraft Manufacturing

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

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

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

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

payment for payroll periods in the year following the payment.

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

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

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

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

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Average hourly earnings, excluding lump-sum payments													
1983 .....											\$12.76	\$12.83	\$12.93
1984 .....	\$12.91	\$12.82	\$12.88	\$12.85	\$12.81	\$12.78	\$12.87	\$12.89	\$12.87	\$12.97	13.04	13.05	13.13
1985 .....	13.18	13.01	13.12	13.11	13.04	13.06	13.11	13.05	13.16	13.26	13.35	13.37	13.48
1986 .....	13.48	13.38	13.44	13.46	13.45	13.38	13.42	13.41	13.44	13.48	13.52	13.67	13.65
1987 .....		13.61	13.61	13.66	<sup>P</sup> 13.62								
Average hourly earnings, including lump-sum payments													
1983 .....											\$12.83	\$12.92	\$13.03
1984 .....	\$13.11	\$12.95	\$13.02	\$13.02	\$12.98	\$12.97	\$13.06	\$13.11	\$13.09	\$13.19	13.26	13.28	13.37
1985 .....	13.40	13.26	13.36	13.33	13.26	13.27	13.33	13.29	13.39	13.48	13.54	13.57	13.68
1986 .....	13.80	13.58	13.64	13.66	13.68	13.60	13.64	13.61	13.63	13.67	14.19	14.31	14.26
1987 .....		14.21	14.25	14.29	<sup>P</sup> 14.36								

<sup>P</sup> = preliminary.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-3. Average hourly earnings, excluding overtime<sup>1</sup>, of production workers on manufacturing payrolls**

Industry	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	May 1987 <sup>p</sup>
<b>Manufacturing</b> .....	<b>\$9.34</b>	<b>\$9.34</b>	<b>\$9.44</b>	<b>\$9.48</b>	<b>\$9.45</b>
<b>Durable goods</b> .....	<b>9.87</b>	<b>9.88</b>	<b>9.95</b>	<b>9.98</b>	<b>9.95</b>
Lumber and wood products .....	7.98	8.00	7.92	7.99	(2)
Furniture and fixtures .....	7.14	7.18	7.34	7.36	(2)
Stone, clay, and glass products .....	9.44	9.48	9.59	9.68	(2)
Primary metal industries .....	11.42	11.45	11.21	11.39	(2)
Fabricated metal products .....	9.49	9.50	9.56	9.60	(2)
Machinery, except electrical .....	10.18	10.18	10.25	10.28	(2)
Electrical and electronic equipment .....	9.30	9.33	9.51	9.54	(2)
Transportation equipment .....	12.17	12.15	12.23	12.20	(2)
Instruments and related products .....	9.12	9.13	9.34	9.37	(2)
Miscellaneous manufacturing .....	7.27	7.32	7.44	7.47	(2)
<b>Nondurable goods</b> .....	<b>8.56</b>	<b>8.57</b>	<b>8.72</b>	<b>8.79</b>	<b>\$8.75</b>
Food and kindred products .....	8.40	8.38	8.56	8.57	(2)
Tobacco manufactures .....	12.81	13.16	13.45	13.97	(2)
Textile mill products .....	6.57	6.56	6.76	6.81	(2)
Apparel and other textile products .....	5.72	5.70	5.79	5.83	(2)
Paper and allied products .....	10.52	10.58	10.68	10.77	(2)
Printing and publishing .....	9.55	9.61	9.79	9.80	(2)
Chemicals and allied products .....	11.35	11.41	11.70	11.75	(2)
Petroleum and coal products .....	13.46	13.38	13.71	13.72	(2)
Rubber and misc. plastics products .....	8.29	8.34	8.41	8.46	(2)
Leather and leather products .....	5.82	5.81	5.92	6.00	(2)

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

<sup>2</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: Data in this table have been revised to reflect March 1986 benchmarks and may differ slightly from data previously published. See the article in this issue for additional information.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-4. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry, in current and constant (1977) dollars.**

Industry	Average hourly earnings					Average weekly earnings				
	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>	Apr. 1986	May 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	May 1987 <sup>P</sup>
<b>Total private:</b>										
Current dollars .....	\$8.73	\$8.73	\$8.92	\$8.90	\$8.92	\$302.93	\$302.93	\$308.63	\$307.94	\$310.42
Constant (1977) dollars .....	4.95	4.93	4.90	4.86	( <sup>2</sup> )	171.63	171.05	169.48	168.18	( <sup>2</sup> )
<b>Mining:</b>										
Current dollars .....	12.42	12.42	12.51	12.41	\$12.39	521.64	519.16	522.92	517.50	\$522.86
Constant (1977) dollars .....	7.04	7.01	6.87	6.78	( <sup>2</sup> )	295.55	293.15	287.16	282.63	( <sup>2</sup> )
<b>Construction:</b>										
Current dollars .....	12.32	12.37	12.59	12.55	\$12.61	462.00	468.82	470.87	469.37	\$488.01
Constant (1977) dollars .....	6.98	6.98	6.91	6.85	( <sup>2</sup> )	261.76	264.72	258.58	256.35	( <sup>2</sup> )
<b>Manufacturing:</b>										
Current dollars .....	9.71	9.72	9.85	9.87	\$9.86	393.26	394.63	402.87	398.75	\$403.27
Constant (1977) dollars .....	5.50	5.49	5.41	5.39	( <sup>2</sup> )	222.81	222.83	221.24	217.78	( <sup>2</sup> )
<b>Transportation and public utilities:</b>										
Current dollars .....	11.61	11.58	11.90	11.90	\$11.91	452.79	451.62	462.91	461.72	\$464.49
Constant (1977) dollars .....	6.58	6.54	6.53	6.50	( <sup>2</sup> )	256.54	255.01	254.21	252.17	( <sup>2</sup> )
<b>Wholesale trade:</b>										
Current dollars .....	9.30	9.30	9.53	9.53	\$9.57	356.19	357.12	361.19	363.09	\$365.57
Constant (1977) dollars .....	5.27	5.25	5.23	5.20	( <sup>2</sup> )	201.81	201.65	198.35	198.30	( <sup>2</sup> )
<b>Retail trade:</b>										
Current dollars .....	6.02	6.01	6.08	6.09	\$6.09	173.98	174.89	175.71	177.83	\$178.44
Constant (1977) dollars .....	3.41	3.39	3.34	3.33	( <sup>2</sup> )	98.57	98.75	96.49	97.12	( <sup>2</sup> )
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	8.31	8.31	8.72	8.67	\$8.65	301.65	300.82	316.54	314.72	\$314.00
Constant (1977) dollars .....	4.71	4.69	4.79	4.74	( <sup>2</sup> )	170.91	169.86	173.83	171.88	( <sup>2</sup> )
<b>Services:</b>										
Current dollars .....	8.13	8.10	8.41	8.39	\$8.38	264.23	263.25	272.48	271.00	\$270.67
Constant (1977) dollars .....	4.61	4.57	4.62	4.58	( <sup>2</sup> )	149.71	148.64	149.63	148.01	( <sup>2</sup> )

<sup>1</sup> 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.

<sup>2</sup> Not available.

<sup>P</sup> = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Data in this table have been revised to reflect March 1986 benchmarks and may differ slightly from data previously published. See the article in this issue for additional information.

**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

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

Industry	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>p</sup>	May <sup>p</sup>
<b>Total private</b> .....	34.8	34.7	34.7	34.7	34.7	34.7	34.8	34.6	34.7	34.9	34.8	34.7	34.8
<b>Mining</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Construction</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Manufacturing</b> .....	40.7	40.6	40.6	40.8	40.8	40.7	40.8	40.8	40.9	41.1	40.9	40.6	41.0
<i>Overtime hours</i> .....	3.5	3.4	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.5	3.8
<b>Durable goods</b> .....	41.3	41.3	41.2	41.4	41.4	41.3	41.4	41.4	41.6	41.7	41.5	41.2	41.5
<i>Overtime hours</i> .....	3.5	3.5	3.5	3.6	3.6	3.5	3.5	3.6	3.7	3.7	3.7	3.6	3.9
Lumber and wood products .....	40.4	40.1	40.4	40.2	40.3	40.4	40.8	40.6	40.8	41.3	40.9	40.6	41.3
Furniture and fixtures .....	39.6	39.7	39.7	39.9	40.0	39.9	39.8	39.9	40.2	40.2	40.0	39.1	39.6
Stone, clay, and glass products .....	42.1	42.1	42.1	42.3	42.4	42.3	41.9	42.2	42.5	42.8	42.5	41.8	42.2
Primary metal industries .....	41.7	41.7	41.4	42.0	42.1	42.3	42.4	42.5	42.6	42.6	42.6	42.4	43.0
Blast furnaces and basic steel products ..	41.6	41.4	41.5	41.7	41.9	42.4	42.5	42.6	42.7	42.3	42.3	42.8	43.4
Fabricated metal products .....	41.1	41.1	41.1	41.3	41.5	41.3	41.4	41.2	41.6	41.6	41.5	41.2	41.6
Machinery, except electrical .....	41.7	41.7	41.3	41.6	41.7	41.7	41.7	41.7	42.0	42.2	42.0	41.7	42.4
Electrical and electronic equipment .....	41.0	40.9	41.1	41.1	41.2	41.0	41.0	41.0	41.0	41.1	40.9	40.5	40.5
Transportation equipment .....	42.1	42.3	42.2	42.4	42.4	42.1	42.2	42.1	42.3	42.5	42.3	41.9	42.1
Motor vehicles and equipment .....	41.9	42.4	42.5	42.5	42.7	42.1	42.4	42.4	42.9	43.0	42.9	42.1	42.2
Instruments and related products .....	40.9	40.9	40.7	40.9	40.7	40.9	41.1	41.1	41.2	41.3	41.3	41.1	41.3
Miscellaneous manufacturing .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Nondurable goods</b> .....	39.9	39.8	39.8	40.0	39.9	39.9	40.0	40.0	40.1	40.3	40.1	39.8	40.2
<i>Overtime hours</i> .....	3.4	3.2	3.4	3.4	3.3	3.4	3.5	3.5	3.5	3.5	3.5	3.3	3.7
Food and kindred products .....	40.1	39.9	39.9	40.2	39.8	39.8	40.0	39.8	40.0	40.1	40.0	39.8	40.0
Tobacco manufactures .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Textile mill products .....	41.0	40.8	41.0	41.2	41.4	41.4	41.4	41.6	41.6	42.0	42.1	41.4	41.7
Apparel and other textile products .....	36.6	36.6	36.6	36.6	36.8	36.8	36.9	37.0	37.0	37.4	37.0	36.2	37.0
Paper and allied products .....	43.2	43.1	43.2	43.4	42.9	43.1	43.2	43.2	43.4	43.3	43.0	43.1	43.6
Printing and publishing .....	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	37.9	38.1	37.9	37.8	38.1
Chemicals and allied products .....	41.9	41.8	41.8	42.0	41.8	42.0	42.3	42.1	42.2	42.2	42.0	42.2	42.0
Petroleum and coal products .....	43.7	44.1	43.7	44.2	43.5	43.7	43.8	43.6	44.6	44.0	44.1	43.7	44.5
Rubber and misc. plastics products .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Leather and leather products .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Transportation and public utilities</b> .....	39.2	39.1	39.2	39.1	39.1	39.1	39.2	38.9	39.0	39.2	39.0	39.0	39.2
<b>Wholesale trade</b> .....	38.4	38.4	38.3	38.4	38.2	38.3	38.3	38.2	38.3	38.3	38.1	38.2	38.2
<b>Retail trade</b> .....	29.2	29.1	29.2	29.2	29.1	29.1	29.2	28.9	29.0	29.3	29.3	29.5	29.4
<b>Finance, insurance, and real estate</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Services</b> .....	32.6	32.5	32.5	32.4	32.4	32.4	32.5	32.4	32.4	32.6	32.5	32.4	32.4

<sup>1</sup> 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.

<sup>2</sup> 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.  
<sup>p</sup> = preliminary.

NOTE: Data in this table have been revised to reflect March 1986 benchmarks and updated seasonal adjustment factors and may differ slightly from data previously published. See the article in this issue for additional information.



**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

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

(1977 = 100)

Industry	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>p</sup>	May <sup>p</sup>
<b>Total private</b> .....	117.2	116.8	117.3	117.6	117.6	117.7	118.2	117.9	118.7	119.7	119.6	119.6	120.1
<b>Goods-producing</b> .....	97.9	97.2	97.2	97.8	97.8	97.6	97.8	97.8	98.8	99.3	98.9	98.0	99.2
<b>Mining</b> .....	85.7	83.4	83.6	82.6	80.7	81.0	79.5	79.5	78.9	79.9	80.0	81.1	82.5
<b>Construction</b> .....	131.0	129.5	130.5	132.0	132.3	131.6	131.1	130.7	136.2	136.2	135.5	132.7	134.9
<b>Manufacturing</b> .....	92.0	91.6	91.4	91.9	91.9	91.8	92.2	92.3	92.5	93.1	92.8	92.1	93.0
<b>Durable goods</b> .....	90.3	89.7	89.3	89.9	89.8	89.5	89.8	89.8	90.0	90.6	90.2	89.5	90.4
Lumber and wood products .....	97.7	97.2	97.1	97.9	98.7	99.2	100.9	101.0	101.5	103.3	102.5	102.0	104.3
Furniture and fixtures .....	105.5	105.7	105.7	106.5	107.1	106.8	106.3	106.5	107.9	107.9	107.9	106.0	108.4
Stone, clay, and glass products .....	86.7	86.5	86.1	86.3	86.7	86.1	85.5	86.5	87.3	88.3	87.5	86.1	86.9
Primary metal industries .....	63.4	61.6	60.8	60.6	60.4	60.7	60.9	61.1	60.4	61.2	61.9	62.3	62.6
Blast furnaces and basic steel products .....	50.8	50.8	50.7	47.9	46.6	47.7	47.1	46.9	46.1	46.8	47.7	50.3	50.3
Fabricated metal products .....	88.9	88.5	87.7	88.4	88.9	88.3	88.5	88.3	89.1	89.1	88.9	88.4	89.2
Machinery, except electrical .....	87.3	87.0	85.6	86.0	85.0	84.4	84.1	83.8	84.2	85.1	84.7	84.6	86.6
Electrical and electronic equipment .....	101.1	98.8	101.2	101.3	101.3	100.8	101.1	101.5	100.8	100.8	99.9	98.8	98.9
Transportation equipment .....	96.5	97.2	96.0	97.5	97.5	96.8	97.9	97.2	97.5	98.9	98.2	96.2	96.5
Motor vehicles and equipment .....	86.0	87.1	85.3	86.8	87.1	84.9	87.0	86.3	87.5	89.0	88.0	84.7	84.4
Instruments and related products .....	102.9	102.4	101.3	102.1	101.9	101.8	102.1	102.1	101.8	102.0	101.7	101.3	102.0
Miscellaneous manufacturing .....	80.2	80.2	79.7	79.7	79.3	79.0	80.2	81.0	81.0	81.1	81.1	79.9	80.2
<b>Nondurable goods</b> .....	94.6	94.5	94.6	95.0	95.0	95.3	95.8	96.0	96.3	96.7	96.5	95.9	97.0
Food and kindred products .....	97.9	97.8	97.7	98.3	97.6	97.6	98.7	98.5	98.8	99.3	99.4	99.4	99.6
Tobacco manufactures .....	77.6	77.6	78.6	72.8	76.5	76.9	76.7	75.9	76.3	76.0	77.7	76.3	77.3
Textile mill products .....	77.8	77.6	78.2	78.8	79.2	79.6	80.1	80.8	81.2	82.3	82.9	81.4	82.3
Apparel and other textile products .....	84.6	84.4	84.6	84.6	85.0	85.1	85.2	86.3	85.8	86.1	85.3	83.9	85.7
Paper and allied products .....	99.4	99.1	99.2	99.2	98.9	99.7	100.1	100.5	100.6	100.6	99.7	99.7	100.7
Printing and publishing .....	127.2	127.5	128.0	128.1	128.4	128.9	129.1	129.4	129.5	130.2	129.4	129.2	130.8
Chemicals and allied products .....	92.2	92.3	92.5	93.1	92.5	92.8	93.4	92.7	93.2	93.4	93.1	93.4	93.6
Petroleum and coal products .....	83.4	83.3	82.6	83.5	81.4	81.8	82.0	81.6	84.3	83.1	83.3	83.4	84.9
Rubber and misc. plastics products .....	109.8	109.8	108.9	110.7	111.6	112.0	112.4	112.7	112.9	113.5	113.5	112.8	114.5
Leather and leather products .....	56.9	56.1	55.5	55.8	55.2	55.4	55.5	56.7	57.4	57.8	57.8	56.8	58.1
<b>Service-producing</b> .....	127.9	127.6	128.4	128.6	128.5	128.8	129.6	129.0	129.8	131.0	131.0	131.5	131.7
<b>Transportation and public utilities</b> .....	106.2	103.5	105.8	104.8	106.1	106.1	107.0	106.5	107.0	107.8	107.7	107.9	108.4
<b>Wholesale trade</b> .....	117.7	116.9	117.1	117.5	116.8	116.9	116.8	116.4	117.1	117.4	116.9	117.4	117.5
<b>Retail trade</b> .....	117.8	117.6	118.3	118.6	118.4	118.6	119.2	118.0	118.9	120.4	120.3	121.6	121.2
<b>Finance, insurance, and real estate</b> .....	135.6	137.1	137.3	138.6	137.8	139.0	140.3	139.8	140.4	141.0	141.5	142.0	142.6
<b>Services</b> .....	145.5	145.8	146.5	146.5	146.7	146.9	147.9	147.8	148.6	150.1	150.2	150.3	150.7

<sup>1</sup> 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.

<sup>p</sup> = preliminary.

NOTE: Data in this table have been revised to reflect March 1986 benchmarks and updated seasonal adjustment factors and may differ slightly from data previously published. See the article in this issue for additional information.

**ESTABLISHMENT DATA  
EARNINGS  
SEASONALLY ADJUSTED**

**C-7. The Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, seasonally adjusted**

Industry	1986								1987				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>p</sup>	May <sup>p</sup>
Hourly Earnings Index <sup>2</sup> (1977 = 100)													
<b>Total private</b> (in current dollars) .....	168.9	169.2	169.1	169.5	169.8	170.2	171.2	171.1	171.2	171.8	172.2	172.5	172.6
<b>Mining</b> .....	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )
<b>Construction</b> .....	151.6	151.9	151.5	152.0	151.9	153.2	154.7	154.3	152.8	152.4	153.8	153.7	154.2
<b>Manufacturing</b> .....	172.3	172.2	172.4	172.7	172.7	173.0	173.2	173.4	173.4	173.7	174.3	175.1	174.2
<b>Transportation and public utilities</b> .....	170.5	171.3	171.0	171.2	171.7	171.9	172.9	173.5	173.6	174.3	174.6	174.7	175.7
<b>Wholesale trade</b> .....	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )
<b>Retail trade</b> .....	157.6	158.0	158.1	158.6	159.0	159.3	159.3	159.3	158.9	158.9	159.0	159.7	160.1
<b>Finance, insurance, and real estate</b> .....	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )
<b>Services</b> .....	173.6	174.1	174.0	174.6	174.7	175.7	177.1	176.6	177.5	178.4	179.0	179.3	179.7
<b>Total private</b> (in constant dollars) <sup>4</sup> .....	95.3	95.2	95.1	95.2	95.0	95.1	95.5	95.3	94.7	94.6	94.4	94.2	( <sup>q</sup> )
Average hourly earnings													
<b>Total private</b> .....	\$8.74	\$8.75	\$8.74	\$8.77	\$8.78	\$8.82	\$8.86	\$8.84	\$8.86	\$8.88	\$8.91	\$8.91	\$8.95
<b>Mining</b> .....	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )	( <sup>q</sup> )
<b>Construction</b> .....	\$12.42	\$12.46	\$12.44	\$12.48	\$12.48	\$12.57	\$12.70	\$12.65	\$12.51	\$12.48	\$12.62	\$12.61	\$12.66
<b>Manufacturing</b> .....	9.73	9.72	9.74	9.75	9.75	9.77	9.78	9.79	9.79	9.81	9.83	9.86	9.87
<b>Transportation and public utilities</b> .....	11.67	11.69	11.70	11.71	11.73	11.77	11.82	11.83	11.86	11.89	11.92	11.92	12.01
<b>Wholesale trade</b> .....	9.32	9.34	9.32	9.37	9.35	9.40	9.48	9.42	9.47	9.50	9.53	9.52	9.59
<b>Retail trade</b> .....	6.01	6.02	6.02	6.03	6.05	6.06	6.07	6.09	6.05	6.04	6.05	6.08	6.09
<b>Finance, insurance, and real estate</b> .....	8.32	8.37	8.35	8.41	8.39	8.43	8.59	8.46	8.59	8.66	8.67	8.65	8.67
<b>Services</b> .....	8.13	8.15	8.14	8.17	8.18	8.22	8.29	8.25	8.30	8.35	8.38	8.38	8.41
Average weekly earnings													
<b>Total private:</b>													
In current dollars .....	304.15	303.63	303.28	304.32	304.67	306.05	308.33	305.86	307.44	309.91	310.07	309.18	311.46
In constant (1977) dollars <sup>4</sup> .....	171.74	170.77	170.57	170.97	170.59	171.07	171.96	170.40	170.04	170.75	170.09	168.77	( <sup>q</sup> )

<sup>1</sup> 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.

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

<sup>3</sup> 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.

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

<sup>5</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: Data in this table have been revised to reflect March 1986 benchmarks and updated seasonal adjustment factors and may differ slightly from data previously published. See the article in this issue for additional information.

**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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>a</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>a</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>a</sup>
<b>Alabama</b> .....	40.6	40.7	40.6	\$8.67	\$8.73	\$8.73	\$352.00	\$355.31	\$354.44
Birmingham .....	41.1	40.8	40.1	8.83	8.81	8.98	362.91	359.45	360.10
Mobile .....	40.3	41.5	42.0	10.44	10.12	9.89	420.73	419.98	415.38
<b>Alaska</b> .....	41.0	42.8	44.9	12.29	11.34	12.00	503.89	485.35	538.80
<b>Arizona</b> .....	41.0	40.3	39.9	9.77	9.93	10.13	400.57	400.18	404.19
<b>Arkansas</b> .....	40.2	40.7	40.2	7.67	7.87	7.95	308.33	320.31	319.59
Fayetteville-Springdale .....	40.5	40.4	40.0	6.76	7.18	7.20	273.78	290.07	288.00
Fort Smith .....	40.5	40.6	40.0	8.09	8.19	8.45	327.65	332.51	338.00
Little Rock-North Little Rock .....	39.8	40.5	40.4	8.34	8.34	8.39	331.93	337.77	338.96
Pine Bluff .....	42.6	41.7	42.4	9.63	10.49	10.58	410.24	437.43	448.59
<b>California</b> .....	40.2	40.4	39.4	10.26	10.70	10.76	412.45	432.28	423.94
<b>Colorado</b> .....	39.6	40.8	39.9	9.83	9.98	10.02	389.27	407.18	399.80
Denver .....	39.9	40.6	39.9	10.68	10.82	10.83	426.13	439.29	432.12
<b>Connecticut</b> .....	41.9	42.0	41.6	9.96	10.29	10.28	417.32	432.18	427.65
Bridgeport-Milford .....	41.9	41.9	41.9	10.30	10.87	10.77	431.57	455.45	451.2 <sup>c</sup>
Hartford .....	42.0	42.5	41.5	10.25	10.64	10.57	430.50	452.20	438.66
New Britain .....	41.5	43.2	42.9	10.24	10.67	10.59	424.96	460.94	454.31
New Haven-Meriden .....	40.9	40.9	40.3	9.49	9.88	10.05	388.14	404.09	405.02
Stamford .....	40.2	40.3	40.2	10.55	11.17	11.31	424.11	450.15	454.66
Waterbury .....	41.3	43.2	41.1	8.42	9.02	8.87	347.75	389.66	364.56
<b>Delaware</b> .....	40.3	42.3	40.2	10.00	10.81	10.39	403.00	457.26	417.68
Wilmington .....	39.8	43.6	41.0	11.65	12.70	12.21	463.67	553.72	500.61
<b>District of Columbia:</b>									
Washington MSA .....	38.8	39.2	39.4	10.15	9.62	9.50	393.82	377.10	374.30
<b>Florida</b> .....	40.5	40.5	40.1	7.96	8.08	8.09	322.38	327.24	324.41
Fort Lauderdale-Hollywood-Pompano Beach .....	41.0	42.6	42.1	7.71	7.96	7.93	316.11	339.10	333.85
Jacksonville .....	41.4	41.7	40.3	8.36	8.96	8.93	346.10	373.63	359.88
Lakeland-Winter Haven .....	38.3	41.0	41.9	7.46	7.81	7.84	285.72	320.21	328.50
Miami-Hialeah .....	39.6	38.9	37.7	6.93	7.01	7.14	274.43	272.69	269.18
Orlando .....	41.0	40.8	40.2	8.31	8.38	8.56	340.71	341.90	344.11
Pensacola .....	41.9	41.5	42.1	9.62	10.13	10.09	403.08	420.40	424.79
Tampa-St. Petersburg-Clearwater .....	40.2	40.6	40.2	7.55	7.58	7.63	303.51	307.75	306.73
West Palm Beach-Boca Raton-Delray Beach .....	40.6	43.0	40.5	8.46	9.04	9.15	343.48	388.72	370.58
<b>Georgia</b> .....	40.7	41.0	40.2	8.47	8.39	8.41	344.73	343.99	338.08
Atlanta .....	40.5	40.9	40.5	10.16	10.02	9.99	411.48	409.82	404.60
Savannah .....	44.6	43.7	43.9	10.58	10.70	10.77	471.87	467.59	472.80
<b>Hawaii</b> .....	38.4	39.3	39.6	8.74	9.18	9.15	335.62	360.77	362.34
Honolulu .....	38.4	39.5	39.5	8.86	9.38	9.31	340.22	370.51	367.75
<b>Idaho</b> .....	38.4	37.8	37.8	9.30	9.56	9.43	357.12	361.37	356.45
<b>Illinois</b> .....	40.6	41.5	41.3	10.63	10.87	10.86	431.58	451.11	448.52
Aurora-Elgin .....	39.0	41.8	41.6	9.88	10.33	10.23	385.32	431.79	425.57
Bloomington-Normal .....	42.7	39.3	38.4	11.14	10.55	10.63	475.68	414.62	408.19
Champaign-Urbana-Rantoul .....	39.3	39.8	39.8	9.08	9.19	9.01	356.84	365.76	358.60
Chicago .....	41.6	41.9	41.2	10.43	10.60	10.52	433.89	444.14	433.42
Davenport-Rock Island-Moline .....	39.6	40.7	39.8	12.50	12.91	12.97	495.00	525.44	516.21
Decatur .....	41.9	41.3	40.4	13.74	13.92	13.72	575.71	574.90	554.29
Joliet .....	40.7	40.8	40.3	11.43	11.56	11.45	465.20	471.65	461.44
Kankakee .....	38.6	39.3	37.7	10.19	9.94	9.72	393.33	390.64	366.44
Lake County .....	40.9	39.4	39.4	10.33	10.65	10.77	422.50	419.61	424.34
Peoria .....	45.0	42.3	42.6	12.98	12.89	12.94	584.10	545.25	551.24
Rockford .....	41.7	41.5	41.9	10.99	10.56	10.58	458.28	438.24	443.30
Springfield .....	41.0	41.7	41.2	11.65	11.36	11.47	477.65	473.71	472.56

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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Indiana</b> .....	41.2	41.7	41.2	\$10.86	\$11.03	\$11.00	\$447.43	\$459.95	\$453.20
<b>Iowa</b> .....	40.2	40.9	40.4	10.48	10.50	10.60	421.30	429.45	428.24
Cedar Rapids .....	38.7	40.3	39.8	11.28	11.43	11.62	436.54	460.63	462.48
Des Moines .....	40.5	41.5	43.9	11.70	11.70	11.92	473.85	485.55	523.29
Dubuque .....	40.5	41.6	41.7	11.79	12.65	12.64	477.50	526.24	527.09
Sioux City .....	39.6	39.4	38.9	8.38	9.17	8.98	331.85	361.30	349.32
<b>Kansas</b> .....	40.1	41.2	40.5	9.60	10.10	9.96	384.96	416.12	403.38
Topeka .....	40.1	42.3	43.4	10.95	10.82	10.73	439.10	457.69	465.68
Wichita .....	38.4	39.0	39.3	9.96	10.96	10.88	382.46	427.44	427.58
<b>Kentucky</b> .....	38.7	40.0	39.3	9.76	9.94	10.03	377.71	397.60	394.18
Lexington-Fayette .....	37.5	37.9	36.1	10.28	10.58	10.89	385.50	400.98	393.13
Louisville .....	40.3	41.1	40.8	10.79	11.21	11.14	434.84	460.73	454.51
<b>Louisiana</b> .....	41.0	42.2	41.5	10.60	10.84	10.83	434.60	457.45	449.45
Baton Rouge .....	41.6	41.6	42.6	12.27	12.44	12.38	510.43	517.50	527.39
New Orleans .....	39.6	41.6	40.8	10.75	10.67	10.67	425.70	443.87	435.34
Shreveport .....	40.7	39.4	38.1	11.16	11.49	11.10	454.21	452.71	422.91
<b>Maine</b> .....	40.2	41.7	41.3	8.53	8.71	8.75	342.91	363.21	361.38
Lewiston-Auburn .....	37.9	40.1	40.4	7.21	7.27	7.35	273.26	291.53	296.94
Portland .....	39.2	39.9	40.0	9.15	9.19	9.18	358.68	366.68	367.20
<b>Maryland</b> .....	40.2	40.7	40.3	10.00	10.12	10.12	402.00	411.88	407.84
Baltimore MSA .....	41.0	41.8	40.9	10.51	10.80	10.86	430.91	451.44	444.17
<b>Massachusetts</b> .....	41.2	40.9	40.2	9.18	9.58	9.76	378.22	391.82	392.35
Boston .....	40.5	40.6	40.4	10.08	10.48	10.54	408.24	425.49	425.82
Springfield .....	42.4	42.3	41.6	8.97	9.11	9.12	380.33	385.35	379.39
Worcester .....	40.4	40.9	40.5	9.36	9.71	9.55	378.14	397.14	386.78
<b>Michigan</b> .....	42.4	42.8	42.1	12.83	12.95	12.99	543.99	554.26	546.88
Ann Arbor .....	43.7	45.2	45.7	13.81	14.12	14.23	603.50	638.22	650.31
Battle Creek .....	41.4	44.0	42.1	13.41	13.61	13.58	555.17	598.84	571.72
Detroit .....	43.6	44.2	43.4	13.82	13.80	13.86	602.55	609.96	601.52
Flint .....	42.9	44.4	43.3	14.54	14.92	14.94	623.77	662.45	646.90
Grand Rapids .....	40.2	40.2	39.0	10.51	11.11	11.11	422.50	446.62	433.29
Jackson .....	41.9	41.9	41.2	10.39	10.20	10.28	435.34	427.38	423.54
Kalamazoo .....	43.1	43.2	42.5	11.92	12.08	12.10	513.75	521.86	514.25
Lansing-East Lansing .....	41.6	43.1	43.1	14.33	14.23	14.21	596.13	613.31	612.45
Muskegon .....	41.0	40.8	40.6	11.46	11.54	11.74	469.86	470.83	476.64
Saginaw-Bay City-Midland .....	43.5	43.1	42.1	13.97	14.45	14.38	607.69	622.79	605.40
<b>Minnesota</b> .....	40.4	40.6	39.8	10.20	10.46	10.42	412.08	424.68	414.72
Duluth .....	38.3	38.0	37.6	10.81	10.82	10.77	414.02	411.16	404.95
Minneapolis-St. Paul .....	40.7	40.8	40.3	10.95	11.18	11.07	445.67	456.14	446.12
St. Cloud .....	39.3	39.4	38.3	9.35	9.06	9.20	367.46	356.96	352.36
<b>Mississippi</b> .....	40.2	39.9	39.4	7.44	7.59	7.56	299.09	302.84	297.86
Jackson .....	40.2	39.6	39.5	8.22	8.57	8.46	330.44	339.37	334.17
<b>Missouri</b> .....	40.3	39.9	39.6	9.87	9.83	9.78	397.76	392.22	387.29
Kansas City .....	40.1	40.2	40.0	11.14	11.47	11.16	446.71	461.09	446.40
St. Joseph .....	38.4	37.9	37.6	9.11	9.48	9.44	349.82	359.29	354.94
St. Louis .....	40.9	41.1	40.5	11.29	11.44	11.39	461.76	470.18	461.30
Springfield .....	40.7	39.7	38.9	8.99	8.75	8.52	365.89	347.38	331.43
<b>Montana</b> .....	40.1	37.4	38.6	10.86	10.72	10.83	435.49	400.93	418.04
<b>Nebraska</b> .....	40.2	40.1	39.9	9.25	9.30	9.25	371.85	372.93	369.08
Lincoln .....	40.1	40.4	39.9	9.66	9.76	9.63	387.37	394.30	384.24
Omaha .....	40.2	39.9	39.7	9.76	9.88	9.89	392.35	394.21	392.63
<b>Nevada</b> .....	39.7	40.9	40.7	9.27	9.59	9.77	368.02	392.23	397.64
Las Vegas .....	38.9	40.7	41.5	11.32	11.60	12.45	440.35	472.12	516.68

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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>New Hampshire</b> .....	40.5	41.3	40.7	\$8.75	\$9.14	\$9.21	\$354.38	\$377.48	\$374.85
Nashua .....	40.5	42.9	42.0	10.50	11.30	11.32	425.25	484.77	475.44
<b>New Jersey</b> .....	41.1	41.4	41.0	10.05	10.34	10.36	413.06	428.08	424.76
<b>New Mexico</b> .....	39.8	40.2	40.3	8.67	8.56	8.69	345.07	344.11	350.21
Albuquerque .....	40.0	40.5	40.3	8.67	9.02	9.15	346.80	365.31	368.75
<b>New York</b> .....	39.8	40.0	39.4	9.88	10.03	10.09	393.22	401.20	397.55
Albany-Schenectady-Troy .....	41.0	40.0	39.5	10.13	10.46	10.50	415.33	418.40	414.75
Binghamton .....	40.1	40.1	39.5	9.01	9.14	9.11	361.30	366.51	359.85
Buffalo .....	42.1	41.7	41.5	12.24	12.07	12.07	515.30	503.32	500.91
Elmira .....	41.5	41.0	40.9	9.48	9.70	9.70	393.42	397.70	396.73
Glens Falls .....	39.7	( <sup>1</sup> )	( <sup>1</sup> )	9.76	( <sup>1</sup> )	( <sup>1</sup> )	387.47	( <sup>1</sup> )	( <sup>1</sup> )
Nassau-Suffolk .....	40.2	40.9	39.6	9.99	10.37	10.51	401.60	424.13	416.20
New York PMSA .....	37.5	37.9	37.3	9.06	9.36	9.45	339.75	354.74	352.49
New York City .....	37.2	37.6	36.9	8.89	9.21	9.31	330.71	346.30	343.54
Niagara Falls .....	41.6	41.6	40.7	12.27	12.86	12.71	510.43	534.98	517.30
Orange County .....	37.9	39.4	39.1	7.80	7.89	7.87	295.62	310.87	307.72
Poughkeepsie .....	42.3	42.5	41.5	8.87	9.14	9.32	375.20	388.45	386.78
Rochester .....	41.2	41.7	41.0	12.02	11.91	12.03	495.22	496.65	493.23
Rockland County .....	42.1	40.8	40.2	9.37	9.99	10.00	394.48	407.59	402.00
Syracuse .....	40.8	41.5	40.7	11.12	11.21	11.08	453.70	465.22	450.96
Utica-Rome .....	41.3	42.0	41.7	9.29	9.68	9.56	383.68	406.56	398.65
Westchester County .....	38.5	39.1	39.4	10.35	10.41	10.39	398.48	407.03	409.37
<b>North Carolina</b> .....	40.3	41.4	40.6	7.48	7.76	7.73	301.44	321.26	313.84
Asheville .....	40.3	41.0	41.7	7.61	7.79	7.79	306.68	319.39	324.84
Charlotte-Gastonia-Rock Hill .....	41.1	42.3	41.6	7.65	8.00	7.98	314.42	338.40	331.97
Greensboro-Winston-Salem-High Point .....	39.7	41.3	40.2	8.22	8.57	8.59	326.33	353.94	345.32
Raleigh-Durham .....	41.4	42.3	41.7	8.51	8.81	8.75	352.31	372.66	364.88
<b>North Dakota</b> .....	36.7	38.9	38.2	8.22	8.44	8.41	301.67	328.32	321.26
Fargo-Moorhead .....	36.1	37.0	36.7	8.39	8.29	8.35	302.88	306.73	306.45
<b>Ohio</b> .....	41.8	42.5	42.1	11.52	11.73	11.72	481.54	498.53	493.41
Akron .....	43.0	42.8	42.8	11.09	11.30	11.30	476.87	483.64	483.64
Canton .....	39.9	42.0	41.7	11.10	11.36	11.38	442.89	477.12	474.55
Cincinnati .....	41.4	42.5	41.9	10.67	10.88	10.98	441.74	462.40	460.06
Cleveland .....	41.9	42.9	42.8	11.45	11.61	11.63	479.76	498.07	497.76
Columbus .....	41.4	41.7	41.1	11.17	11.45	11.40	462.44	477.47	468.54
Dayton-Springfield .....	42.5	41.7	41.2	12.02	11.85	11.78	510.85	494.15	485.34
Toledo .....	41.8	42.8	42.4	12.35	12.70	12.67	516.23	543.56	537.21
Youngstown-Warren .....	41.1	43.3	43.2	13.21	13.39	13.33	542.93	579.79	575.86
<b>Oklahoma</b> .....	41.1	41.1	40.7	9.91	9.94	10.04	407.30	408.53	408.63
Oklahoma City .....	39.4	40.5	39.8	10.88	11.03	11.02	428.67	446.72	438.60
Tulsa .....	39.4	40.6	40.3	10.48	10.52	9.70	412.91	427.11	390.91
<b>Oregon</b> .....	39.4	38.9	39.4	10.65	10.54	10.54	419.61	410.01	415.28
Eugene-Springfield .....	41.0	40.3	40.8	10.97	10.52	10.63	449.77	423.96	433.70
Portland .....	39.4	38.9	38.8	10.81	10.88	10.76	425.91	423.23	417.49
Salem .....	37.7	37.7	38.7	9.61	9.47	9.55	362.30	357.02	369.59

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Pennsylvania</b> .....	39.9	40.6	40.0	\$9.71	\$9.86	\$9.92	\$387.43	\$400.32	\$396.80
Allentown-Bethlehem .....	38.7	38.9	38.7	10.13	10.15	10.32	392.03	394.84	399.38
Altoona .....	38.0	38.5	39.1	8.32	8.90	8.85	316.16	342.65	346.04
Beaver County .....	41.0	41.4	41.6	11.62	11.09	11.00	476.42	459.13	457.60
Erie .....	41.5	41.6	40.7	10.21	10.25	10.22	423.72	426.40	415.95
Harrisburg-Lebanon-Carlisle .....	39.3	39.4	39.0	9.25	9.36	9.38	363.53	368.78	365.82
Johnstown .....	37.7	38.7	38.4	8.33	8.32	8.38	314.04	321.98	321.79
Lancaster .....	40.2	40.1	39.9	9.45	9.61	9.75	379.89	385.36	389.03
Philadelphia PMSA .....	40.1	41.0	40.3	10.43	10.65	10.70	418.24	436.65	431.21
Pittsburgh .....	40.9	40.3	40.2	11.13	10.97	10.99	455.22	442.09	441.80
Reading .....	39.7	40.8	39.7	9.86	9.95	10.03	391.44	405.96	398.19
Scranton-Wilkes-Barre .....	38.0	38.9	38.5	8.46	8.61	8.65	321.48	334.93	333.03
Sharon .....	39.5	40.5	41.3	11.37	11.28	11.23	449.12	456.84	463.80
State College .....	38.9	40.0	39.4	8.10	8.27	8.19	315.09	330.80	322.69
Williamsport .....	39.6	40.4	40.7	8.66	8.55	8.59	342.94	345.42	349.61
York .....	41.5	42.2	41.6	9.20	9.27	9.26	381.80	391.19	385.22
<b>Rhode Island</b> .....	40.6	40.8	40.7	7.87	8.17	8.18	319.52	333.34	332.93
Pawtucket-Woonsocket-Attleboro .....	40.5	40.9	40.5	7.35	7.64	7.65	297.68	312.48	309.83
Providence .....	40.1	40.3	40.3	7.86	8.11	8.12	315.19	326.83	327.24
<b>South Carolina</b> .....	40.5	41.6	41.4	7.85	8.06	8.06	317.92	335.30	333.68
Charleston .....	41.6	41.9	41.9	9.11	9.09	9.02	378.98	380.87	377.94
Columbia .....	40.0	41.0	40.6	7.66	7.86	7.86	306.40	322.26	319.12
Greenville-Spartanburg .....	40.6	41.9	41.5	7.68	7.98	7.99	311.81	334.36	331.58
<b>South Dakota</b> .....	42.1	42.3	41.3	7.68	8.00	8.04	323.33	338.40	332.05
Sioux Falls .....	47.3	45.6	45.4	7.89	8.26	8.28	373.20	376.66	375.91
<b>Tennessee</b> .....	41.0	41.1	40.4	8.47	8.78	8.89	347.27	360.86	359.16
Chattanooga .....	41.3	41.7	39.9	7.50	7.94	7.94	309.75	331.10	316.81
Johnson City-Kingsport-Bristol .....	43.4	43.8	41.8	9.05	9.04	9.02	392.77	395.95	377.04
Knoxville .....	38.0	39.0	37.6	8.93	8.92	9.01	339.34	347.88	338.78
Memphis .....	44.1	41.5	41.1	8.67	8.88	8.96	382.35	368.52	368.26
Nashville .....	39.1	40.8	40.0	9.32	10.11	10.11	364.41	412.49	404.40
<b>Texas</b> .....	41.3	41.2	41.1	9.59	9.84	9.89	396.07	405.41	406.48
Dallas .....	42.0	42.0	41.6	9.37	9.58	9.65	393.54	402.36	401.44
Ft. Worth-Arlington .....	41.5	41.0	40.7	9.53	9.90	9.81	395.50	405.90	399.27
Houston .....	42.0	43.2	43.1	11.11	11.19	11.23	466.62	483.41	484.01
San Antonio .....	40.6	41.1	41.1	7.31	7.50	7.62	296.79	308.25	313.18
<b>Utah</b> .....	39.9	39.7	39.4	10.15	9.77	9.93	404.99	387.87	391.24
Salt Lake City-Ogden .....	40.2	40.0	39.8	9.79	9.78	9.91	393.56	391.20	394.42
<b>Vermont</b> .....	40.8	40.6	39.8	8.75	8.92	9.00	357.00	362.15	358.20
Burlington .....	42.3	41.8	41.8	9.67	9.96	10.11	409.04	416.33	422.60
<b>Virginia</b> .....	40.3	40.6	40.5	8.75	9.13	9.07	352.63	370.68	367.34
Bristol .....	40.3	42.0	41.4	7.52	7.70	7.71	303.06	323.40	319.19
Charlottesville .....	39.3	40.1	40.1	7.45	7.52	7.49	292.79	301.55	300.35
Danville .....	40.0	42.7	41.9	8.13	8.15	8.09	325.20	348.01	338.97
Lynchburg .....	40.9	42.2	41.6	8.33	8.58	8.35	340.70	362.08	347.36
Northern Virginia .....	41.3	40.3	41.0	9.21	9.91	9.66	380.37	399.37	396.06
Richmond-Petersburg .....	39.6	40.5	40.7	10.94	11.34	11.34	433.22	459.27	461.54
Roanoke .....	40.6	41.8	40.2	8.18	8.71	8.69	332.11	364.08	349.34

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Washington</b> .....	39.5	40.1	39.8	\$11.78	\$11.74	\$11.66	\$465.31	\$470.77	\$464.07
<b>West Virginia</b> .....	40.4	40.4	40.3	10.30	10.42	10.74	416.12	420.97	432.82
Charleston .....	41.6	42.1	42.7	12.59	12.93	12.97	523.74	544.35	553.82
Huntington-Ashland .....	38.8	39.9	38.9	11.70	11.78	12.08	453.96	470.02	469.91
Parkersburg-Marietta .....	42.7	41.8	41.8	12.08	12.15	11.93	515.82	507.87	498.67
Wheeling .....	40.4	40.4	40.8	11.30	10.79	12.12	456.52	435.92	494.50
<b>Wisconsin</b> .....	40.9	41.2	40.5	10.40	10.59	10.56	425.36	436.31	427.68
Appleton-Oshkosh .....	42.4	42.4	42.5	10.36	10.77	10.66	439.26	456.65	453.05
Eau Claire .....	39.7	40.2	38.5	10.41	10.64	10.86	413.28	427.73	418.11
Green Bay .....	41.7	40.8	41.3	11.35	11.29	11.31	473.30	460.63	467.10
Janesville-Beloit .....	38.5	38.6	38.0	12.00	12.48	12.22	462.00	481.73	464.36
Kenosha .....	38.7	40.5	39.0	11.06	12.08	11.98	428.02	489.24	467.22
La Crosse .....	39.2	39.5	39.0	9.42	9.21	9.16	369.26	363.80	357.24
Madison .....	40.5	40.3	39.8	9.86	9.93	9.86	399.33	400.18	392.43
Milwaukee .....	40.7	41.6	40.4	11.62	11.76	11.71	472.93	489.22	473.08
Racine .....	40.1	40.1	39.6	10.99	11.02	11.00	440.70	441.90	435.60
Sheboygan .....	40.0	40.8	39.7	9.59	9.74	9.71	383.60	397.39	385.49
Wausau .....	41.2	41.6	41.5	9.76	9.84	9.80	402.11	409.34	406.70
<b>Wyoming</b> .....	38.7	38.4	39.1	9.79	9.61	9.68	378.87	369.02	378.49
<b>Puerto Rico</b> .....	39.2	39.7	38.0	5.29	5.41	5.40	207.37	214.78	205.20
<b>Virgin Islands</b> .....	42.6	41.4	42.5	10.00	9.94	9.52	426.00	411.52	404.60

<sup>1</sup> Not available.

<sup>P</sup> = preliminary.

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

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

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

**C-9. Hours of wage and salary workers in nonagricultural establishments by major industry, seasonally adjusted<sup>1</sup>**

Industry	Millions of hours (annual rate) <sup>2</sup>			Percent change		
	Mar. 1987 <sup>r</sup>	Apr. 1987 <sup>r</sup>	May 1987 <sup>p</sup>	May 1986 to May 1987 <sup>p</sup>	Mar. 1987 to Apr. 1987 <sup>r</sup>	Apr. 1987 to May 1987 <sup>p</sup>
Total .....	188,706	187,683	189,633	2.6	-0.5	1.0
Private sector .....	154,731	154,832	155,485	2.5	.1	.4
Mining .....	1,587	1,591	1,615	-5.8	.3	1.5
Construction .....	9,899	9,767	9,950	4.0	-1.3	1.9
Manufacturing .....	40,347	40,032	40,364	.5	-.8	.8
Durable goods .....	24,004	23,798	23,977	-.5	-.9	.8
Nondurable goods .....	16,343	16,234	16,386	1.9	-.7	.9
Transportation and public utilities .....	10,855	10,867	10,894	1.9	.1	.3
Wholesale trade .....	11,407	11,483	11,482	.1	.7	.0
Retail trade .....	27,649	27,949	27,832	3.1	1.1	-.4
Finance, insurance, and real estate .....	12,316	12,377	12,436	5.5	.5	.5
Services .....	40,671	40,767	40,913	4.1	.2	.4
Government .....	33,975	32,851	34,147	2.9	-3.3	3.9

<sup>1</sup> All of the hours measures were revised to reflect the most recent levels from Unemployment Insurance data.

<sup>2</sup> Total hours paid for 1 week in the month, seasonally adjusted, multiplied by 52.

<sup>p</sup> = preliminary.

= revised.

NOTE: Data refer to hours of all employees—production workers, nonsupervisory workers, and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods*, BLS Bulletin 2134-1, chapter 13, Productivity Measures: Business Economy and Major Sectors. SOURCE: Office of Productivity and Technology (202 523 9261).



**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

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

(1977 = 100)

Item	Annual average		Quarterly index										
	1985	1986	1984		1985				1986				1987
			III	IV	I	II	III	IV	I	II	III	IV	
<b>Business sector</b>													
Output per hour of all persons .....	106.4	107.1	105.5	105.5	105.7	106.4	107.3	106.4	107.3	107.4	107.3	106.8	106.9
Output .....	122.7	125.9	119.5	120.2	121.3	122.3	123.5	123.8	125.3	125.4	126.0	126.8	128.0
Hours .....	115.3	117.5	113.3	114.0	114.8	115.0	115.2	116.4	116.8	116.7	117.4	118.7	119.8
Compensation per hour .....	175.3	180.9	169.0	170.6	172.3	174.5	176.4	178.0	179.1	180.4	181.7	182.6	182.7
Real compensation per hour .....	98.8	100.0	98.1	98.2	98.4	98.6	99.0	99.0	99.2	100.2	100.4	100.2	99.0
Unit labor costs .....	164.8	168.8	160.2	161.7	163.1	164.0	164.4	167.3	167.0	168.0	169.3	171.0	170.9
Unit nonlabor payments .....	159.7	161.8	157.0	157.7	158.3	160.0	161.4	159.6	162.2	161.9	163.4	159.7	164.6
Implicit price deflator .....	163.0	166.3	159.0	160.3	161.4	162.6	163.4	164.6	165.3	165.8	167.2	167.0	168.7
<b>Nonfarm business sector</b>													
Output per hour of all persons .....	104.8	105.5	104.4	104.3	104.4	104.9	105.4	104.5	105.6	105.7	105.7	105.3	105.4
Output .....	122.5	125.9	119.5	120.2	121.1	122.1	123.3	123.6	125.1	125.3	126.1	127.0	128.3
Hours .....	116.9	119.3	114.5	115.2	116.0	116.4	116.9	118.2	118.5	118.5	119.4	120.6	121.7
Compensation per hour .....	174.6	179.8	168.7	170.4	172.1	174.0	175.4	177.0	178.3	179.3	180.4	181.6	181.6
Real compensation per hour .....	98.4	99.4	97.9	98.1	98.3	98.3	98.5	98.4	98.8	99.7	99.6	99.6	98.4
Unit labor costs .....	166.7	170.4	161.5	163.3	164.8	165.9	166.3	169.3	168.8	169.6	170.7	172.5	172.2
Unit nonlabor payments .....	160.6	163.9	157.2	157.9	158.9	160.8	163.0	160.3	163.9	163.7	165.9	162.2	167.5
Implicit price deflator .....	164.6	168.1	160.0	161.4	162.7	164.1	165.2	166.2	167.1	167.5	169.0	168.9	170.6
<b>Manufacturing<sup>1</sup></b>													
Output per hour of all persons .....	121.7	126.0	117.5	118.0	119.1	121.8	122.9	123.2	124.4	125.7	127.0	127.1	127.7
Output .....	120.4	124.4	117.1	117.6	118.6	119.9	121.1	122.1	123.5	123.6	124.7	125.9	127.0
Hours .....	98.9	98.7	99.7	99.7	99.6	98.5	98.5	99.1	99.3	98.4	98.2	99.0	99.4
Compensation per hour .....	176.7	181.9	169.1	171.5	173.8	175.6	178.1	179.3	180.2	181.4	182.5	183.5	183.0
Real compensation per hour .....	99.5	100.5	98.1	98.7	99.2	99.2	100.0	99.7	99.8	100.8	100.8	100.7	99.1
Unit labor costs .....	145.1	144.3	143.9	145.4	145.9	144.3	144.9	145.6	144.9	144.3	143.7	144.4	143.3
<b>Durable goods<sup>1</sup></b>													
Output per hour of all persons .....	124.6	130.2	117.9	118.8	121.0	124.4	126.2	126.9	128.5	129.6	131.2	131.6	132.4
Output .....	124.7	128.8	118.7	120.2	122.2	124.1	125.5	127.0	128.4	127.8	128.8	130.1	131.2
Hours .....	100.1	98.9	100.7	101.2	100.9	99.8	99.5	100.0	99.9	98.7	98.2	98.8	99.0
Compensation per hour .....	174.9	180.7	167.2	169.4	172.0	173.2	176.5	178.0	178.9	180.2	181.3	182.6	181.5
Real compensation per hour .....	98.5	99.9	97.1	97.5	98.2	97.8	99.1	99.0	99.1	100.1	100.1	100.2	98.4
Unit labor costs .....	140.3	138.8	141.8	142.6	142.1	139.2	139.9	140.2	139.2	139.1	138.1	138.8	137.1
<b>Nondurable goods<sup>1</sup></b>													
Output per hour of all persons .....	117.3	119.8	116.8	116.6	116.2	117.7	118.0	117.4	118.1	119.9	120.8	120.4	120.8
Output .....	114.1	117.9	114.6	113.8	113.3	113.8	114.5	114.9	116.1	117.4	118.6	119.6	120.8
Hours .....	97.3	98.5	98.1	97.6	97.6	96.7	97.0	97.9	98.3	97.9	98.2	99.3	100.0
Compensation per hour .....	179.4	183.8	171.9	174.6	176.5	179.4	180.4	181.3	182.2	183.5	184.8	185.1	185.7
Real compensation per hour .....	101.0	101.6	99.8	100.5	100.8	101.3	101.3	100.8	100.9	102.0	102.1	101.6	100.6
Unit labor costs .....	152.9	153.5	147.1	149.7	151.9	152.5	152.9	154.4	154.3	153.1	153.0	153.7	153.7
<b>Nonfinancial corporations<sup>2</sup></b>													
Output per all-employee hour .....	106.8	106.9	105.5	105.8	106.0	106.5	107.8	107.0	106.9	106.8	106.9	107.2	107.2
Output .....	124.8	127.2	120.9	122.1	123.1	124.2	126.0	126.1	126.9	126.6	127.0	128.3	130.0
Hours .....	116.9	119.0	114.6	115.5	116.1	116.6	116.8	117.8	118.7	118.5	118.8	119.6	121.2
Compensation per hour .....	172.3	176.5	166.6	168.3	169.9	171.6	173.1	174.5	175.4	176.1	176.8	177.8	177.6
Real compensation per hour .....	97.0	97.5	96.7	96.9	97.0	96.9	97.2	97.0	97.1	97.8	97.7	97.6	96.2
Total unit costs .....	165.8	169.1	162.6	163.8	164.9	165.8	165.0	167.2	168.3	168.6	169.8	169.6	169.5
Unit labor costs .....	161.2	165.0	157.9	159.1	160.3	161.1	160.5	163.0	164.0	164.8	165.4	165.8	165.6
Unit nonlabor costs .....	179.1	181.2	176.4	177.5	178.5	179.8	178.3	179.8	181.1	179.9	182.6	180.9	181.0
Unit profits .....	133.1	134.1	130.3	130.5	129.3	130.2	141.7	131.2	131.7	132.3	135.8	136.8	147.8
Implicit price deflator .....	161.8	164.9	158.7	159.8	160.6	161.6	162.2	162.9	164.0	164.3	165.7	165.7	166.9

<sup>1</sup> Revisions to quarterly output measures were introduced in the manufacturing sector; measures of productivity and unit labor costs were also affected.

<sup>2</sup> Measures for the first quarter of 1987 are preliminary.  
= revised.

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

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

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

Item	Percent change from											
	Previous quarter						Same quarter, previous year					
	IV 1985	I 1986	II 1986	III 1986	IV 1986	I 1987 <sup>1</sup>	IV 1985	I 1986	II 1986	III 1986	IV 1986	I 1987 <sup>1</sup>
<b>Business sector</b>												
Output per hour of all persons .....	-3.2	3.3	0.5	-0.4	-2.0	0.6	0.9	1.5	1.0	0.0	0.3	-0.3
Output .....	1.0	4.7	.3	2.0	2.4	4.1	3.0	3.3	2.5	2.0	2.4	2.2
Hours .....	4.3	1.4	-2	2.4	4.6	3.4	2.1	1.8	1.6	2.0	2.0	2.5
Compensation per hour .....	3.8	2.5	2.8	2.9	2.0	.3	4.4	3.9	3.4	3.0	2.6	2.0
Real compensation per hour .....	-1	.9	4.2	.4	-6	-4.7	.8	.8	1.7	1.3	1.2	-2
Unit labor costs .....	7.2	-7	2.3	3.3	4.2	-3	3.4	2.4	2.4	3.0	2.2	2.3
Unit nonlabor payments .....	-4.3	6.6	-7	3.7	-8.6	12.7	1.2	2.5	1.2	1.2	.1	1.5
Implicit price deflator .....	3.0	1.8	1.2	3.4	-4	4.0	2.7	2.4	2.0	2.4	1.5	2.0
<b>Nonfarm business sector</b>												
Output per hour of all persons .....	-3.5	4.3	.5	-3	-1.5	.5	.2	1.2	.8	.2	.7	-2
Output .....	1.0	5.1	.6	2.6	2.7	4.3	2.8	3.3	2.7	2.3	2.8	2.6
Hours .....	4.6	.8	.1	2.9	4.3	3.8	2.6	2.1	1.8	2.1	2.0	2.8
Compensation per hour .....	3.7	3.1	2.3	2.3	2.7	.0	3.9	3.6	3.1	2.8	2.6	1.8
Real compensation per hour .....	-2	1.5	3.6	-1	.0	-5.0	.3	.5	1.4	1.2	1.2	-4
Unit labor costs .....	7.4	-1.2	1.8	2.6	4.2	-5	3.7	2.5	2.2	2.6	1.8	2.0
Unit nonlabor payments .....	-6.6	9.3	-6	5.5	-8.6	13.9	1.5	3.1	1.8	1.7	1.2	2.2
Implicit price deflator .....	2.4	2.3	1.0	3.6	-3	4.2	2.9	2.7	2.1	2.3	1.6	2.1
<b>Manufacturing<sup>1</sup></b>												
Output per hour of all persons .....	.8	4.0	4.3	4.3	.2	2.1	4.4	4.4	3.2	3.3	3.2	2.7
Output .....	3.5	4.5	.6	3.6	3.6	3.7	3.8	4.1	3.1	3.0	3.1	2.9
Hours .....	2.7	.4	-3.5	-6	3.4	1.6	-6	-3	-2	-3	-1	.2
Compensation per hour .....	2.8	2.1	2.7	2.4	2.1	-1.1	4.5	3.7	3.3	2.5	2.3	1.5
Real compensation per hour .....	-1.1	.5	4.1	.0	-6	-6.0	1.0	.6	1.6	.8	1.0	-7
Unit labor costs .....	2.0	-1.9	-1.5	-1.8	1.9	-3.1	.1	-7	.1	-8	-8	-1.1
<b>Durable goods<sup>1</sup></b>												
Output per hour of all persons .....	2.5	5.1	3.2	5.2	1.1	2.6	6.8	6.2	4.2	4.0	3.6	3.0
Output .....	4.8	4.5	-1.7	3.3	3.8	3.5	5.6	5.1	3.0	2.7	2.4	2.2
Hours .....	2.2	-6	-4.8	-1.8	2.6	.8	-1.1	-1.1	-1.1	-1.3	-1.2	-8
Compensation per hour .....	3.3	2.2	2.8	2.5	3.0	-2.3	5.0	4.1	4.0	2.7	2.6	1.5
Real compensation per hour .....	-5	.6	4.1	.0	.3	-7.2	1.5	.9	2.4	1.0	1.2	-8
Unit labor costs .....	.8	-2.8	-4	-2.6	1.8	-4.8	-1.7	-2.0	-1	-1.3	-1.0	-1.5
<b>Nondurable goods<sup>1</sup></b>												
Output per hour of all persons .....	-2.0	2.4	6.2	3.1	-1.3	1.3	.7	1.7	1.9	2.4	2.6	2.3
Output .....	1.3	4.5	4.5	4.3	3.2	4.1	.9	2.5	3.2	3.6	4.1	4.0
Hours .....	3.4	2.0	-1.6	1.2	4.6	2.7	.3	.8	1.3	1.2	1.5	1.7
Compensation per hour .....	1.9	2.2	2.9	2.7	.7	1.3	3.8	3.3	2.3	2.4	2.1	1.9
Real compensation per hour .....	-1.9	.6	4.2	.3	-1.9	-3.7	.3	.2	.6	.8	.8	-3
Unit labor costs .....	4.0	-2	-3.1	-3	2.0	.0	3.2	1.6	.4	.0	-4	-4
<b>Nonfinancial corporations<sup>2</sup></b>												
Output per all-employee hour .....	-2.8	-5	-3	.2	1.4	.0	1.2	.9	.3	-9	.2	.3
Output .....	.5	2.6	-1.1	1.3	4.1	5.5	3.3	3.2	2.0	.8	1.7	2.4
Hours .....	3.4	3.1	-8	1.2	2.7	5.5	2.1	2.2	1.7	1.7	1.5	2.1
Compensation per hour .....	3.3	2.0	1.6	1.8	2.3	-6	3.7	3.2	2.6	2.2	1.9	1.3
Real compensation per hour .....	-5	.4	2.9	-6	-3	-5.6	.2	.1	1.0	.5	.6	-9
Total unit costs .....	5.5	2.7	.6	2.8	-3	-4	2.1	2.1	1.7	2.9	1.4	.7
Unit labor costs .....	6.3	2.5	1.9	1.6	.9	-6	2.4	2.3	2.3	3.1	1.7	.9
Unit nonlabor costs .....	3.3	3.1	-2.7	6.1	-3.6	.1	1.3	1.5	.0	2.4	.7	-1
Unit profits .....	-26.4	1.3	2.0	11.0	2.8	36.4	.6	1.8	1.6	-4.2	4.2	12.2
Implicit price deflator .....	1.7	2.5	.7	3.6	.0	2.9	2.0	2.1	1.7	2.1	1.7	1.8

<sup>1</sup> Revisions to quarterly output measures were introduced in the manufacturing sector; measures of productivity and unit labor costs were also affected.

<sup>2</sup> Measures for the first quarter of 1987 are preliminary.  
= revised.

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

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Alabama</b> .....	1,868.9	1,865.9	1,863.6	179.6	183.6	152.3	9.6	9.8	8.2
Birmingham .....	438.5	440.0	441.6	34.4	35.3	31.4	7.8	8.0	7.1
Huntsville .....	124.2	126.4	126.7	8.3	8.3	7.2	6.7	6.6	5.7
Mobile .....	209.8	209.3	208.7	22.4	22.5	20.0	10.7	10.7	9.6
Montgomery .....	133.1	133.6	134.0	9.4	9.7	9.0	7.1	7.3	6.7
Tuscaloosa .....	68.1	69.2	69.6	5.0	5.1	4.4	7.3	7.4	6.3
<b>Alaska</b> .....	258.2	248.5	251.9	31.6	30.1	29.0	12.2	12.1	11.5
<b>Arizona</b> .....	1,580.4	1,610.0	1,604.1	106.7	118.4	111.8	6.8	7.4	7.0
Phoenix .....	976.9	999.7	995.3	52.2	63.1	58.5	5.3	6.3	5.9
Tucson .....	310.4	309.8	308.3	17.9	18.9	17.0	5.8	6.1	5.5
<b>Arkansas</b> .....	1,066.9	1,067.5	1,067.4	91.9	96.8	85.4	8.6	9.1	8.0
Fayetteville-Springdale .....	54.1	55.7	56.2	2.3	2.4	2.4	4.3	4.3	4.2
Fort Smith .....	86.1	87.9	87.3	6.1	5.8	5.2	7.1	6.6	5.9
Little Rock-North Little Rock .....	249.5	252.1	252.2	15.8	19.1	18.0	6.3	7.6	7.1
Pine Bluff .....	37.5	36.4	36.2	3.0	3.8	3.2	8.1	10.5	8.9
<b>California<sup>1</sup></b> .....	13,209.3	13,623.9	13,689.7	884.3	859.8	790.1	6.7	6.3	5.8
Anaheim-Santa Ana .....	1,231.3	1,298.5	1,311.5	50.8	43.1	39.4	4.1	3.3	3.0
Bakersfield .....	219.8	223.7	225.3	27.8	29.3	23.9	12.7	13.1	10.6
Fresno .....	288.9	287.3	296.7	40.6	40.2	32.9	14.0	14.0	11.1
Los Angeles-Long Beach <sup>1</sup> .....	4,021.0	4,176.0	4,141.0	231.0	260.0	264.0	5.8	6.2	6.4
Modesto .....	141.6	146.6	147.0	23.4	21.7	19.8	16.5	14.8	13.5
Oakland .....	1,005.3	1,042.1	1,049.4	61.1	55.3	49.9	6.1	5.3	4.8
Oxnard-Ventura .....	320.1	332.5	335.8	21.1	18.6	15.7	6.6	5.6	4.7
Riverside-San Bernardino .....	848.5	893.8	897.9	54.3	48.8	45.6	6.4	5.5	5.1
Sacramento .....	639.2	660.8	667.7	43.5	39.9	35.0	6.8	6.0	5.2
Salinas-Seaside-Monterey .....	150.5	150.5	155.8	17.1	16.8	13.6	11.3	11.2	8.7
San Diego .....	1,009.8	1,045.2	1,055.7	50.6	47.4	44.2	5.0	4.5	4.2
San Francisco .....	869.0	875.4	884.2	41.2	34.5	32.6	4.7	3.9	3.7
San Jose .....	796.7	803.8	807.0	49.1	40.3	35.8	6.2	5.0	4.4
Santa Barbara-Santa Maria-Lompoc .....	177.8	178.9	180.5	9.7	9.5	7.9	5.4	5.3	4.4
Santa Rosa-Petaluma .....	178.6	181.6	183.9	11.1	10.0	8.7	6.2	5.5	4.7
Stockton .....	180.4	184.7	188.6	23.3	21.8	18.9	12.9	11.8	10.0
Vallejo-Fairfield-Napa .....	177.0	183.7	187.4	12.0	11.9	10.4	6.8	6.5	5.6
<b>Colorado</b> .....	1,687.0	1,704.7	1,696.2	128.2	167.3	151.0	7.6	9.8	8.9
Boulder-Longmont .....	128.7	130.7	129.6	8.0	9.5	8.3	6.2	7.3	6.4
Denver .....	894.5	904.5	900.1	57.6	80.0	71.7	6.4	8.8	8.0
<b>Connecticut</b> .....	1,726.9	1,723.7	1,739.0	64.6	65.7	56.4	3.7	3.8	3.2
Bridgeport-Milford .....	228.7	227.3	228.4	10.6	11.0	9.0	4.6	4.9	4.0
Hartford .....	414.3	418.7	421.5	13.1	14.6	12.4	3.2	3.5	3.0
New Britain .....	74.6	73.3	73.8	3.1	3.2	2.6	4.2	4.4	3.5
New Haven-Meriden .....	270.4	266.5	269.7	10.1	9.5	8.6	3.7	3.6	3.2
Stamford .....	114.6	115.9	117.3	3.1	3.1	2.8	2.7	2.7	2.4
Waterbury .....	102.4	101.2	101.6	5.7	5.5	4.7	5.6	5.5	4.6
<b>Delaware</b> .....	319.4	329.2	336.7	14.3	10.3	9.9	4.5	3.1	2.9
Wilmington .....	278.1	285.5	291.1	14.2	10.9	10.8	5.1	3.8	3.7
<b>District of Columbia</b> .....	322.3	332.6	335.4	24.7	24.8	23.2	7.6	7.4	6.9
Washington .....	2,014.5	2,076.9	2,101.1	69.7	76.5	71.7	3.5	3.7	3.4
<b>Florida<sup>1</sup></b> .....	5,457.3	5,810.7	5,767.9	297.1	312.5	298.7	5.4	5.4	5.2
Daytona Beach .....	135.8	146.1	143.7	6.4	6.9	6.5	4.7	4.8	4.6
Fort Lauderdale-Hollywood-Pompano Beach .....	568.6	604.6	597.7	24.8	24.9	26.2	4.4	4.1	4.4
Fort Myers-Cape Coral .....	118.5	137.6	135.2	4.7	4.7	4.7	3.9	3.4	3.5
Gainesville .....	97.1	103.2	102.7	3.0	3.7	3.2	3.1	3.6	3.1
Jacksonville .....	407.9	433.6	432.7	22.5	23.1	22.5	5.5	5.3	5.2
Lakeland-Winter Haven .....	165.5	174.4	176.1	14.4	14.7	13.7	8.7	8.4	7.8
Melbourne-Titusville-Palm Bay .....	167.5	169.6	168.2	9.4	11.1	9.8	5.6	6.5	5.8
Miami-Hialeah .....	878.7	906.8	897.0	59.8	54.4	50.6	6.8	6.0	5.6
Orlando .....	505.0	553.1	552.9	22.4	25.7	24.9	4.4	4.6	4.5
Pensacola .....	141.8	148.8	146.6	8.9	11.2	8.9	6.3	7.5	6.1
Sarasota .....	105.4	113.3	113.3	4.2	3.9	4.0	4.0	3.4	3.5
Tallahassee .....	113.5	121.8	121.6	4.4	5.0	4.7	3.8	4.1	3.8
Tampa-St. Petersburg-Clearwater .....	894.7	953.7	945.5	44.2	48.9	47.1	4.9	5.1	5.0
West Palm Beach-Boca Raton-Delray Beach .....	360.0	392.1	389.3	18.9	18.7	19.8	5.3	4.8	5.1

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA  
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Georgia</b> .....	2,979.6	3,087.3	3,080.6	172.2	179.9	157.2	5.8	5.8	5.1
Albany .....	56.2	56.9	56.4	4.8	5.6	5.1	8.6	9.8	9.1
Athens .....	71.7	74.8	74.0	3.4	3.6	2.8	4.8	4.9	3.8
Atlanta .....	1,383.3	1,464.3	1,466.1	62.6	68.6	62.2	4.5	4.7	4.2
Augusta .....	172.8	176.9	177.1	9.9	11.6	10.5	5.7	6.5	5.9
Columbus .....	98.7	99.8	99.5	7.6	6.9	6.5	7.7	6.9	6.5
Macon-Warner Robins .....	127.0	129.1	128.1	7.7	6.8	6.1	6.1	5.3	4.7
Savannah .....	107.2	110.8	110.1	7.0	6.7	6.2	6.5	6.1	5.6
<b>Hawaii</b> .....	486.7	495.2	500.8	25.9	19.1	19.9	5.3	3.9	4.0
Honolulu .....	366.5	372.2	376.3	17.3	13.3	13.4	4.7	3.6	3.6
<b>Idaho</b> .....	459.6	455.6	459.2	42.5	47.6	42.9	9.3	10.4	9.3
Boise City .....	99.8	100.6	102.1	6.1	6.9	6.3	6.1	6.9	6.2
<b>Illinois</b> <sup>1</sup> .....	5,639.0	5,580.5	5,612.3	462.6	451.4	462.1	8.2	8.1	8.2
Aurora-Elgin .....	167.6	168.8	168.0	12.3	11.5	10.7	7.3	6.8	6.3
Bloomington-Normal .....	63.0	62.4	63.1	3.6	3.0	3.2	5.7	4.8	5.1
Champaign-Urbana-Rantoul .....	86.1	86.3	86.7	4.0	4.3	4.3	4.7	5.0	5.0
Chicago .....	3,079.9	3,062.4	3,069.1	229.8	219.1	226.2	7.5	7.2	7.4
Davenport-Rock Island-Moline .....	182.6	179.4	181.6	18.5	14.7	13.8	10.1	8.2	7.6
Decatur .....	59.3	57.3	58.2	6.4	5.9	6.7	10.8	10.2	11.5
Joliet .....	188.6	186.5	184.2	14.0	16.0	15.5	7.4	8.6	8.4
Kankakee .....	44.7	43.8	43.8	4.9	4.3	4.5	11.0	9.8	10.2
Lake County .....	250.1	244.6	247.3	12.8	12.6	12.2	5.1	5.2	5.0
Peoria .....	152.9	150.7	152.2	13.7	13.8	14.1	9.0	9.2	9.3
Rockford .....	144.1	144.9	146.6	12.6	15.7	16.7	8.7	10.8	11.4
Springfield .....	104.0	102.4	102.6	6.0	6.0	5.9	5.8	5.8	5.8
<b>Indiana</b> .....	2,727.9	2,703.1	2,731.6	183.9	186.6	168.2	6.7	6.9	6.2
Anderson .....	60.8	59.0	59.0	3.7	4.2	3.6	6.1	7.1	6.2
Bloomington .....	57.3	58.1	60.6	2.3	2.4	3.5	4.1	4.2	5.8
Elkhart-Goshen .....	88.3	89.6	90.8	4.1	3.7	3.4	4.6	4.2	3.7
Evansville .....	143.4	141.6	141.9	10.1	11.3	10.3	7.1	8.0	7.3
Fort Wayne .....	186.7	187.7	189.7	9.9	9.9	9.6	5.3	5.3	5.1
Gary-Hammond .....	256.4	250.2	251.9	28.0	29.0	25.4	10.9	11.6	10.1
Indianapolis .....	638.0	641.2	647.7	33.9	33.0	29.9	5.3	5.1	4.6
Kokomo .....	49.9	48.1	48.7	4.4	4.1	4.1	8.9	8.5	8.3
Lafayette .....	65.2	64.0	64.9	2.6	2.3	2.1	4.0	3.6	3.2
Muncie .....	60.0	59.1	59.5	4.2	4.2	3.9	7.0	7.1	6.5
South Bend-Mishawaka .....	124.7	125.2	125.0	8.1	7.1	6.0	6.5	5.7	4.8
Terre Haute .....	60.7	59.0	59.0	4.3	4.3	3.8	7.1	7.4	6.4
<b>Iowa</b> .....	1,439.0	1,436.5	1,452.0	111.5	82.6	67.4	7.7	5.7	4.6
Cedar Rapids .....	88.6	89.8	89.6	6.5	4.8	4.1	7.4	5.4	4.6
Des Moines .....	211.1	218.9	218.3	13.6	9.6	8.1	6.5	4.4	3.7
Dubuque .....	43.4	43.9	44.0	3.6	2.7	2.0	8.3	6.3	4.6
Iowa City .....	57.6	58.7	58.8	1.7	1.1	.9	3.0	1.9	1.6
Sioux City .....	58.2	59.2	59.4	5.1	3.9	3.3	8.7	6.5	5.5
Waterloo-Cedar Falls .....	69.9	69.3	69.2	9.0	6.0	5.1	12.9	8.6	7.3
<b>Kansas</b> .....	1,218.9	1,249.3	1,253.8	67.1	67.7	56.1	5.5	5.4	4.5
Lawrence .....	37.3	39.3	39.7	1.3	1.6	1.3	3.4	4.0	3.3
Topeka .....	86.1	89.8	89.1	4.4	4.5	3.5	5.1	5.0	4.0
Wichita LMA .....	221.5	230.9	231.9	13.1	13.2	11.0	5.9	5.7	4.8
<b>Kentucky</b> .....	1,673.5	1,675.1	1,675.1	155.9	186.7	160.4	9.3	11.1	9.6
Lexington-Fayette .....	178.8	175.4	178.4	9.0	11.1	10.1	5.0	6.3	5.7
Louisville .....	487.9	485.3	487.8	35.7	40.3	36.2	7.3	8.3	7.4
Owensboro .....	45.3	44.5	43.5	5.2	6.1	5.4	11.5	13.8	12.3
<b>Louisiana</b> .....	1,989.8	1,938.4	1,922.3	253.1	262.6	230.0	12.7	13.5	12.0
Alexandria .....	60.0	60.7	60.3	6.1	6.7	5.9	10.2	11.0	9.8
Baton Rouge .....	263.1	260.9	259.1	28.2	28.0	24.5	10.7	10.7	9.5
Houma-Thibodaux .....	77.5	74.3	72.9	12.5	14.8	12.8	16.1	20.0	17.5
Lafayette .....	109.4	101.0	100.2	14.0	15.1	13.2	12.8	14.9	13.2
Lake Charles .....	76.1	73.8	74.2	11.0	10.0	9.4	14.5	13.5	12.7
Monroe .....	69.7	68.5	68.4	6.8	7.7	6.7	9.7	11.2	9.8
New Orleans .....	609.3	590.4	587.7	64.0	64.2	58.0	10.5	10.9	9.9
Shreveport .....	168.8	164.3	161.3	19.6	21.4	17.9	11.6	13.0	11.1
<b>Maine</b> .....	555.5	540.8	554.3	34.8	29.9	29.4	6.3	5.5	5.3
Lewiston-Auburn .....	40.3	39.3	40.0	2.8	2.5	2.4	7.0	6.2	6.1
Portland .....	115.4	113.9	116.2	3.3	3.3	3.0	2.9	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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>Maryland</b> .....	2,333.3	2,394.3	2,419.6	103.7	117.1	100.3	4.4	4.9	4.1
Baltimore .....	1,141.7	1,159.8	1,169.4	59.5	62.3	52.4	5.2	5.4	4.5
<b>Massachusetts<sup>1</sup></b> .....	3,016.3	3,048.5	3,046.3	115.5	136.0	118.0	3.8	4.5	3.9
Boston .....	1,499.3	1,520.8	1,516.3	48.8	55.3	49.6	3.3	3.6	3.3
Brockton .....	94.1	96.5	95.8	3.9	4.7	4.2	4.2	4.9	4.4
Fall River .....	75.5	76.8	76.7	4.9	6.4	5.5	6.5	8.4	7.1
Fitchburg-Leominster .....	47.2	45.2	45.2	2.0	2.7	2.5	4.3	5.9	5.4
Lawrence-Haverhill .....	183.0	180.4	181.8	8.5	9.1	8.8	4.7	5.1	4.8
Lowell .....	148.9	147.2	147.2	5.5	6.5	5.9	3.7	4.4	4.0
New Bedford .....	83.2	84.1	83.0	5.3	6.7	5.3	6.4	8.0	6.4
Pittsfield .....	39.9	40.8	41.0	1.7	2.1	1.8	4.2	5.2	4.4
Springfield .....	244.4	249.6	248.3	10.4	11.3	9.5	4.2	4.5	3.8
Worcester .....	206.0	209.8	209.7	7.3	8.7	7.2	3.5	4.2	3.5
<b>Michigan<sup>1</sup></b> .....	4,332.0	4,463.2	4,450.2	394.0	375.6	378.6	9.1	8.4	8.5
Ann Arbor .....	148.4	156.6	155.1	7.0	6.5	7.6	4.7	4.2	4.9
Battle Creek .....	60.7	62.5	61.4	5.7	5.0	4.7	9.4	8.0	7.7
Benton Harbor .....	74.7	75.7	75.7	6.5	5.9	6.3	8.7	7.8	8.3
Detroit .....	2,093.9	2,180.4	2,179.7	174.0	173.5	178.5	8.3	8.0	8.2
Flint .....	198.1	200.8	197.8	19.7	20.0	19.5	10.0	10.0	9.9
Grand Rapids .....	326.8	334.1	332.0	24.3	20.9	21.9	7.4	6.2	6.6
Jackson .....	60.5	62.2	61.8	5.7	5.0	5.3	9.4	8.0	8.5
Kalamazoo .....	109.1	113.5	112.6	6.4	5.8	5.1	5.9	5.1	4.6
Lansing-East Lansing .....	227.1	236.4	234.8	16.1	15.1	15.2	7.1	6.4	6.5
Muskegon .....	66.4	67.6	67.3	7.2	7.5	7.9	10.9	11.1	11.7
Saginaw-Bay City-Midland .....	179.6	183.4	183.7	18.5	18.2	18.8	10.3	9.9	10.2
<b>Minnesota</b> .....	2,180.2	2,203.8	2,232.1	129.0	133.8	108.6	5.9	6.1	4.9
Duluth .....	101.7	100.3	101.1	10.1	11.4	10.2	9.9	11.4	10.1
Minneapolis-St.Paul .....	1,288.9	1,316.9	1,324.5	58.7	59.7	49.3	4.6	4.5	3.7
Rochester .....	54.9	56.7	57.0	2.4	2.4	2.0	4.3	4.3	3.5
St. Cloud .....	87.6	90.7	91.8	5.5	6.1	5.1	6.3	6.7	5.5
<b>Mississippi</b> .....	1,154.9	1,156.9	1,145.4	132.1	129.4	106.6	11.4	11.2	9.3
Jackson .....	193.9	195.6	196.3	14.8	15.1	13.3	7.6	7.7	6.8
<b>Missouri</b> .....	2,508.9	2,544.0	2,580.8	146.6	161.7	156.1	5.8	6.4	6.0
Kansas City .....	789.1	813.3	815.8	36.9	42.6	38.6	4.7	5.2	4.7
St. Joseph .....	41.5	40.8	41.4	3.2	3.2	3.2	7.7	7.8	7.7
St. Louis .....	1,223.8	1,240.7	1,251.6	80.4	88.1	92.1	6.6	7.1	7.4
Springfield .....	115.5	118.2	120.3	5.6	5.6	5.4	4.9	4.7	4.5
<b>Montana</b> .....	408.3	405.9	406.8	37.2	35.7	29.3	9.1	8.8	7.2
<b>Nebraska</b> .....	802.3	806.2	814.0	41.0	45.9	38.2	5.1	5.7	4.7
Lincoln .....	117.8	118.8	118.7	3.9	4.6	3.6	3.3	3.9	3.0
Omaha .....	310.8	316.8	315.4	17.0	17.8	15.7	5.5	5.6	5.0
<b>Nevada</b> .....	531.9	560.2	562.1	32.6	35.7	32.9	6.1	6.4	5.8
Las Vegas .....	305.9	326.4	327.9	19.2	20.6	19.2	6.3	6.3	5.9
Reno .....	133.9	139.3	139.1	7.1	8.5	7.4	5.3	6.1	5.3
<b>New Hampshire</b> .....	553.3	566.9	572.8	16.0	15.0	13.4	2.9	2.6	2.3
Nashua .....	90.3	93.4	94.4	2.5	2.4	2.1	2.8	2.6	2.2
Portsmouth-Dover-Rochester .....	121.8	124.3	126.7	3.1	3.3	2.7	2.6	2.6	2.2
<b>New Jersey<sup>1</sup></b> .....	3,840.5	3,949.7	3,933.9	180.4	169.0	149.1	4.7	4.3	3.8
Atlantic City .....	163.4	168.2	171.9	11.3	11.3	9.3	6.9	6.7	5.4
Bergen-Passaic .....	701.1	715.1	709.8	30.0	27.6	24.2	4.3	3.9	3.4
Jersey City .....	264.4	272.3	270.4	20.8	18.3	17.2	7.9	6.7	6.4
Middlesex-Somerset-Hunterdon .....	527.6	543.0	540.8	18.3	16.1	14.3	3.5	3.0	2.6
Monmouth-Ocean .....	441.5	456.2	458.6	16.5	16.4	13.8	3.7	3.6	3.0
Newark .....	952.9	974.5	966.5	47.6	42.1	37.8	5.0	4.3	3.9
Trenton .....	165.6	173.5	171.9	6.4	6.3	5.4	3.9	3.7	3.1
Vineland-Millville-Bridgeton .....	56.1	57.8	57.1	5.2	4.9	4.3	9.2	8.5	7.5
<b>New Mexico</b> .....	666.4	673.5	678.2	61.4	62.2	60.0	9.2	9.2	8.8
Albuquerque .....	252.0	259.2	261.2	15.6	15.9	16.0	6.2	6.1	6.1
Las Cruces .....	54.1	54.6	54.9	3.9	4.0	3.8	7.3	7.3	6.9
Santa Fe .....	62.5	64.5	65.0	3.3	3.8	3.7	5.3	5.9	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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>P</sup>
<b>New York<sup>1</sup></b> .....	8,239.4	8,449.7	8,336.7	553.8	450.1	402.8	6.7	5.3	4.8
Albany-Schenectady-Troy .....	402.7	412.0	408.9	21.1	18.9	17.4	5.2	4.6	4.3
Binghamton .....	123.4	124.8	124.0	7.6	6.4	5.8	6.2	5.1	4.7
Buffalo .....	427.2	437.7	433.2	31.2	27.8	25.1	7.3	6.4	5.8
Elmira .....	38.6	39.5	39.7	2.8	2.2	1.9	7.1	5.6	4.8
Glens Falls .....	49.4	49.7	50.2	3.8	3.4	3.0	7.7	6.9	6.1
Nassau-Suffolk .....	1,368.3	1,402.4	1,399.5	54.0	49.9	47.0	3.9	3.6	3.4
<b>New York</b> .....	3,836.5	3,954.2	3,860.9	299.2	212.5	187.6	7.8	5.4	4.9
New York City <sup>1</sup> .....	3,186.0	3,289.0	3,199.0	277.0	192.0	166.0	8.7	5.8	5.2
Orange County .....	122.6	125.9	125.7	6.1	5.9	5.2	5.0	4.7	4.1
Poughkeepsie .....	123.1	124.9	124.8	4.4	3.9	3.6	3.6	3.1	2.9
Rochester .....	481.2	487.8	485.5	26.3	25.0	23.0	5.5	5.1	4.7
Syracuse .....	309.1	317.3	313.8	22.2	21.9	20.1	7.2	6.9	6.4
Utica-Rome .....	131.2	133.2	132.1	9.8	9.2	7.9	7.5	6.9	6.0
<b>North Carolina<sup>1</sup></b> .....	3,118.2	3,238.9	3,225.5	159.1	159.8	140.0	5.1	4.9	4.3
Asheville .....	83.5	85.9	85.3	4.2	4.6	3.8	5.0	5.4	4.4
Charlotte-Gastonia-Rock Hill .....	583.2	611.9	610.3	25.4	23.9	22.0	4.4	3.9	3.6
Greensboro-Winston-Salem-High Point .....	490.9	510.3	505.4	21.8	20.8	17.9	4.4	4.1	3.5
Raleigh-Durham .....	372.6	394.3	393.4	10.5	12.4	10.8	2.8	3.1	2.7
<b>North Dakota</b> .....	331.4	324.1	332.9	24.1	19.5	17.5	7.3	6.0	5.3
Bismarck .....	44.2	43.4	44.5	3.5	2.2	2.3	7.9	5.0	5.1
Fargo-Moorhead .....	81.8	83.2	84.2	4.0	3.5	2.6	4.9	4.2	3.0
Grand Forks .....	34.7	35.3	36.0	1.5	1.3	1.3	4.3	3.5	3.5
<b>Ohio<sup>1</sup></b> .....	5,224.8	5,153.6	5,204.5	413.8	405.1	367.4	7.9	7.9	7.1
Akron .....	320.2	314.4	317.5	26.1	25.1	23.5	8.1	8.0	7.4
Canton .....	190.6	185.7	187.4	19.9	18.1	16.7	10.5	9.7	8.9
Cincinnati .....	721.9	727.0	731.9	45.5	52.0	40.8	6.3	7.2	5.6
Cleveland .....	929.7	914.3	922.9	67.6	63.4	58.0	7.3	6.9	6.3
Columbus .....	671.3	674.6	682.5	39.1	39.2	36.5	5.8	5.8	5.4
Dayton-Springfield .....	460.3	457.8	463.0	28.9	27.7	26.1	6.3	6.1	5.6
Toledo .....	306.8	307.3	310.9	24.9	24.4	23.1	8.1	7.9	7.4
Youngstown-Warren .....	224.0	220.5	220.5	23.4	22.4	19.3	10.4	10.2	8.7
<b>Oklahoma</b> .....	1,594.7	1,566.2	1,561.9	128.1	133.4	121.5	8.0	8.5	7.8
Enid .....	32.0	29.6	29.6	2.7	2.6	2.4	8.5	8.6	8.0
Lawton .....	48.5	47.4	47.8	2.3	2.5	2.5	4.8	5.3	5.2
Oklahoma City .....	519.7	500.9	500.5	32.9	35.0	31.4	6.3	7.0	6.3
Tulsa .....	355.1	357.1	355.6	29.4	32.9	29.6	8.3	9.2	8.3
<b>Oregon</b> .....	1,334.6	1,348.7	1,346.0	121.2	93.7	81.8	9.1	7.0	6.1
Eugene-Springfield .....	132.0	134.1	133.6	12.2	8.2	7.2	9.3	6.1	5.4
Portland .....	602.4	618.2	616.5	44.6	34.7	31.4	7.4	5.6	5.1
Salem .....	123.5	123.0	123.0	11.5	8.9	8.0	9.3	7.3	6.5
<b>Pennsylvania<sup>1</sup></b> .....	5,607.1	5,445.5	5,458.6	393.3	339.5	294.7	7.0	6.2	5.4
Allentown-Bethlehem .....	318.2	303.9	304.6	24.8	15.4	13.1	7.8	5.1	4.3
Altoona .....	58.2	56.0	55.8	5.5	4.7	3.8	9.5	8.4	6.8
Beaver County .....	65.1	60.0	60.0	8.5	6.3	5.5	13.1	10.5	9.2
Erie .....	128.4	123.6	123.2	11.3	10.7	9.0	8.8	8.6	7.3
Harrisburg-Lebanon-Carlisle .....	300.4	297.6	298.5	16.0	11.8	9.0	5.3	4.0	3.0
Johnstown .....	95.6	90.7	90.7	11.1	8.9	7.2	11.6	9.8	8.0
Lancaster .....	205.5	202.9	204.9	7.3	5.6	4.4	3.5	2.8	2.1
Philadelphia .....	2,344.4	2,330.4	2,337.9	118.9	109.9	98.4	5.1	4.7	4.2
Pittsburgh .....	950.1	921.8	920.5	76.8	71.0	62.7	8.1	7.7	6.8
Reading .....	169.2	164.0	164.6	12.8	8.4	7.6	7.6	5.1	4.6
Scranton-Wilkes-Barre .....	342.7	330.8	332.2	28.7	26.2	22.7	8.4	7.9	6.8
Sharon .....	49.6	48.4	48.1	4.2	4.2	3.2	8.4	8.6	6.8
State College .....	58.0	56.4	57.4	3.4	3.0	2.5	5.9	5.4	4.4
Williamsport .....	55.6	54.7	54.3	4.1	3.8	2.8	7.3	6.9	5.2
York .....	205.8	199.5	201.6	11.2	8.5	8.0	5.5	4.3	4.0
<b>Rhode Island</b> .....	507.1	506.0	512.3	21.4	21.9	21.9	4.2	4.3	4.3
Pawtucket-Woonsocket-Attleboro .....	164.3	164.6	165.9	8.1	8.8	8.4	4.9	5.4	5.1
Providence .....	330.3	330.5	333.9	13.7	13.8	13.6	4.2	4.2	4.1
<b>South Carolina</b> .....	1,598.8	1,601.4	1,615.8	99.2	101.7	96.8	6.2	6.4	6.0
Charleston .....	215.9	219.7	222.4	9.5	11.2	10.7	4.4	5.1	4.8
Columbia .....	220.1	220.1	223.0	7.9	9.1	9.2	3.6	4.1	4.1
Greenville-Spartanburg .....	315.9	320.1	322.5	17.4	16.6	16.4	5.5	5.2	5.1
<b>South Dakota</b> .....	341.3	342.0	350.8	15.0	15.5	12.9	4.4	4.5	3.7
Rapid City .....	36.5	37.8	38.5	1.6	1.8	1.4	4.3	4.6	3.7
Sioux Falls .....	67.4	69.7	70.1	2.6	2.5	1.9	3.9	3.6	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		
	Apr. 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>p</sup>	Apr. 1986	Mar. 1987	Apr. 1987 <sup>p</sup>
<b>Tennessee</b> .....	2,273.7	2,314.7	2,319.4	183.4	177.0	159.1	8.1	7.6	6.9
Chattanooga .....	200.6	202.1	202.6	14.4	12.8	11.7	7.2	6.4	5.8
Johnson City-Kingsport-Bristol .....	207.0	211.8	211.0	15.8	16.8	14.8	7.6	7.9	7.0
Knoxville .....	274.2	275.9	277.3	21.3	22.4	19.8	7.8	8.1	7.1
Memphis LMA .....	423.8	436.1	436.3	29.0	27.2	24.6	6.8	6.2	5.6
Nashville .....	496.7	508.2	507.1	24.3	24.6	21.6	4.9	4.8	4.3
<b>Texas<sup>1</sup></b> .....	8,031.9	8,106.8	8,207.9	656.2	668.4	680.3	8.2	8.2	8.3
Abilene .....	55.1	55.0	55.5	4.4	4.6	4.6	7.9	8.4	8.3
Amarillo .....	97.3	97.7	99.1	6.1	5.9	6.0	6.3	6.1	6.1
Austin .....	415.5	430.6	435.5	19.8	25.8	26.2	4.8	6.0	6.0
Beaumont-Port Arthur .....	161.6	157.5	160.9	22.8	19.2	20.7	14.1	12.2	12.9
Brazoria .....	79.6	79.5	80.7	7.9	7.4	7.5	10.0	9.3	9.3
Brownsville-Harlingen .....	93.0	93.3	94.4	14.1	12.9	13.1	15.2	13.8	13.9
Bryan-College Station .....	57.3	57.0	57.7	3.2	3.2	3.3	5.5	5.6	5.7
Corpus Christi .....	163.3	165.0	168.0	17.9	18.6	19.3	10.9	11.3	11.5
Dallas .....	1,384.6	1,403.5	1,422.9	71.9	80.8	88.2	5.2	5.8	6.2
El Paso .....	217.6	224.8	228.5	23.4	22.8	23.4	10.8	10.1	10.2
Fort Worth-Arlington .....	643.2	659.3	672.8	43.8	41.7	46.3	6.8	6.3	6.9
Galveston-Texas City .....	106.8	103.7	106.4	11.2	10.7	10.7	10.5	10.3	10.0
Houston .....	1,588.6	1,571.5	1,583.5	145.7	141.7	143.3	9.2	9.0	9.1
Killeen-Temple .....	86.3	89.1	90.1	6.0	6.5	6.6	6.9	7.3	7.4
Laredo .....	43.3	45.3	45.3	6.8	7.5	7.0	15.7	16.6	15.5
Longview-Marshall .....	80.0	78.1	79.1	9.5	8.1	8.3	11.8	10.3	10.5
Lubbock .....	108.5	109.8	111.1	7.1	6.5	6.7	6.5	5.9	6.0
McAllen-Edinburg-Mission .....	139.4	144.3	143.7	24.3	26.2	23.5	17.4	18.2	16.4
Midland .....	52.0	50.4	50.6	4.6	4.7	4.8	8.8	9.3	9.5
Odessa .....	59.2	56.5	56.5	6.9	7.1	7.0	11.6	12.6	12.3
San Angelo .....	45.1	45.2	45.7	2.9	2.8	2.8	6.4	6.2	6.2
San Antonio .....	567.2	587.1	596.3	35.5	44.6	44.7	6.3	7.6	7.5
Sherman-Denison .....	46.8	48.5	49.1	2.9	3.7	3.6	6.1	7.6	7.4
Texarkana .....	56.1	56.0	56.5	5.2	4.8	4.8	9.2	8.6	8.5
Tyler .....	74.5	75.1	75.8	5.7	6.4	6.5	7.7	8.5	8.5
Victoria .....	37.1	37.4	38.0	3.6	3.4	3.3	9.6	9.1	8.8
Waco .....	89.2	91.3	92.5	6.4	6.9	7.1	7.2	7.5	7.7
Wichita Falls .....	56.0	56.7	57.2	4.4	4.4	4.4	7.9	7.7	7.7
<b>Utah</b> .....	748.5	761.6	757.7	45.7	55.9	50.5	6.1	7.3	6.7
Provo-Orem .....	98.7	98.8	97.9	5.8	8.6	7.4	5.8	8.7	7.5
Salt Lake City-Ogden .....	492.4	504.6	502.1	27.0	32.1	29.4	5.5	6.4	5.9
<b>Vermont</b> .....	291.2	295.1	290.7	16.8	13.9	12.9	5.8	4.7	4.4
Burlington .....	71.7	72.9	73.4	2.5	2.5	2.0	3.5	3.4	2.7
<b>Virginia</b> .....	2,859.5	2,902.6	2,928.8	146.5	151.3	138.6	5.1	5.2	4.7
Charlottesville .....	61.8	64.1	65.0	2.2	2.6	2.4	3.5	4.0	3.6
Danville .....	50.7	49.8	50.2	5.1	4.4	4.0	10.1	8.8	8.0
Lynchburg .....	69.3	70.0	70.0	4.7	4.7	3.6	6.8	6.7	5.1
Norfolk-Virginia Beach-Newport News .....	562.4	574.3	581.9	26.6	30.7	28.9	4.7	5.3	5.0
Richmond-Petersburg .....	407.7	415.9	420.8	19.3	16.7	16.8	4.7	4.0	4.0
Roanoke .....	115.7	117.2	118.3	5.6	5.2	4.8	4.9	4.4	4.0
<b>Washington</b> .....	2,148.5	2,183.0	2,182.3	180.9	202.8	182.0	8.4	9.3	8.3
Seattle .....	940.1	972.7	971.7	62.3	69.2	63.6	6.6	7.1	6.5
<b>West Virginia</b> .....	742.0	740.3	741.9	90.5	84.4	73.9	12.2	11.4	10.0
Charleston .....	116.0	116.8	117.6	11.3	10.5	9.7	9.7	9.0	8.2
Huntington-Ashland .....	126.3	127.1	127.0	13.6	16.1	14.0	10.8	12.7	11.1
Parkersburg-Marietta .....	72.6	71.9	72.5	8.4	7.3	6.2	11.5	10.1	8.5
Wheeling .....	72.6	70.8	71.0	8.7	7.1	6.8	11.9	10.0	9.5
<b>Wisconsin</b> .....	2,364.4	2,422.4	2,442.9	179.1	183.2	148.4	7.6	7.6	6.1
Appleton-Oshkosh-Neenah .....	156.3	160.5	161.1	11.2	11.9	9.9	7.2	7.4	6.2
Eau Claire .....	66.2	71.2	71.9	4.7	5.2	4.1	7.1	7.3	5.8
Green Bay .....	99.1	101.8	101.9	6.1	7.1	5.9	6.2	7.0	5.8
Janesville-Beloit .....	69.7	69.5	69.6	6.0	6.4	5.5	8.7	9.1	7.9
Kenosha .....	52.5	52.3	53.2	6.9	4.6	3.7	13.1	8.7	7.0
La Crosse .....	50.2	51.6	52.3	3.1	3.3	2.5	6.2	6.5	4.7
Madison .....	202.4	207.3	209.4	9.3	9.3	7.6	4.6	4.5	3.6
Milwaukee .....	704.2	723.0	725.7	45.0	43.3	37.9	6.4	6.0	5.2
Racine .....	83.6	85.2	85.2	7.3	6.7	6.0	8.7	7.9	7.0
Sheboygan .....	50.9	52.7	53.0	3.5	3.3	2.6	6.8	6.2	4.9
Wausau .....	56.0	58.3	59.1	4.6	5.1	3.9	8.3	8.8	6.6
<b>Wyoming</b> .....	248.6	239.9	240.5	24.1	25.4	21.9	9.7	10.6	9.1

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

<sup>2</sup> Not available.

<sup>p</sup> = preliminary.

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

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

# Explanatory Notes

## Introduction

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

*Data based on household interviews* are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 59,500 households, representing 729 areas in 1,973 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

*Data based on establishment records* are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonagricultural wage and salary employment, average weekly hours, average hourly earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are currently based on payroll reports from a sample of 290,000 establishments employing over 38 million nonagricultural wage and salary workers. The data relate to all workers, full or part time, who received pay during the payroll period which includes the 12th day of the month.

### RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

The household and establishment data supplement one another, each providing significant types of information that the other cannot suitably supply. Population characteristics, for example, are readily obtained only from the household survey whereas detailed industrial classifications can be reliably derived only from establishment reports.

Data from these two sources differ from each other because of differences in definitions and coverage, sources of information, methods of collection, and estimating procedures. Sampling variability and response errors are additional reasons for discrepancies. The major factors which

have a differential effect on the levels and trends of the two series are as follows.

### Employment

*Coverage.* The household survey definition of employment comprises wage and salary workers (including domestics and other private household workers), self-employed persons, unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises, and members of the Armed Forces stationed in the United States. Civilian employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of nonagricultural establishments.

*Multiple jobholding.* The household survey provides information on the work status of the population without duplication, since each person is classified as employed, unemployed, or not in the labor force. Employed persons holding more than one job are counted only once and are classified according to the job at which they worked the greatest number of hours during the survey week. In the figures based on establishment reports, persons who worked in more than one establishment during the reporting period are counted each time their names appear on payrolls.

*Unpaid absences from jobs.* The household survey includes among the employed all civilians who had jobs but were not at work during the survey week—that is, were not working but had jobs from which they were temporarily absent because of illness, bad weather, vacation, labor-management disputes, or because they were taking time off for various other reasons, even if they were not paid by their employers for the time off. In the figures based on payroll reports, persons on leave paid for by the company are included, but not those on leave without pay for the entire payroll period.

For a comprehensive discussion of the differences between household and establishment survey employment data, see Gloria P. Green's article, "Comparing Employment Estimates From Household and Payroll Surveys," *Monthly Labor Review*, December 1969.

### Hours of work

The household survey measures hours actually worked whereas the payroll survey measures hours paid for by



employers. In the household survey data, all persons with a job but not at work are excluded from the hours distributions and the computations of average hours. In the payroll survey, production or nonsupervisory employees on paid vacation, paid holiday, or paid sick leave are included and assigned the number of hours for which they were paid during the reporting period.

## Earnings

The household survey measures median earnings of wage and salary workers in all occupations and industries in both the private and public sectors. Data refer to the usual earnings received from the worker's sole or primary job. Data from the establishment survey generally refer to average earnings of production and related workers in mining and manufacturing, construction workers in construction, and nonsupervisory employees in private service-producing industries. For a comprehensive discussion of the household survey earnings series, see *Technical Description of the Quarterly Data on Weekly Earnings from the Current Population Survey*, BLS Bulletin 2113.

## COMPARABILITY OF HOUSEHOLD DATA WITH OTHER SERIES

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

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

unemployed in the household survey.

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

*Agricultural employment estimates of the Department of Agriculture.* The principal differences in coverage are the inclusion of persons under 16 in the Economics and Statistics Service series and the treatment of dual jobholders, who are counted more than once if they work on more than one farm during the reporting period. There are also wide differences in sampling techniques and collecting and estimating methods which cannot be readily measured in terms of their impact on differences in the levels and trends of the two series.

## COMPARABILITY OF PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

*Statistics on manufactures and business, Bureau of the Census.* BLS establishment statistics on employment differ from employment counts derived by the Bureau of Census from its censuses or sample surveys of manufacturing and business establishments. The major reasons for noncomparability are different treatment of business units considered parts of an establishment, such as central administrative offices and auxiliary units, the industrial classification of establishments, and different reporting patterns by multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes professional services, public utilities, and financial establishments, whereas these are included in the BLS statistics.

*County Business Patterns.* Data in *County Business Patterns* (CBP), published by the Bureau of the Census, U.S. Department of Commerce, differ from BLS establishment statistics in the treatment of central administrative offices and auxiliary units. Differences may also arise because of industrial classification and reporting practices. In addition, CBP excludes interstate railroads and government, and coverage is incomplete for some of the nonprofit activities.

*Employment covered by State unemployment insurance programs.* Most nonagricultural wage and salary workers are covered by the unemployment insurance programs. However, certain activities, such as interstate railroads, parochial schools, and churches, are not covered by unemployment insurance whereas these are included in the BLS establishment statistics.

# Household Data (A tables)

## COLLECTION AND COVERAGE

Statistics on the employment status of the population, the personal, occupational, and other characteristics of the employed, the unemployed, and persons not in the labor force, and related data are compiled for the BLS by the Bureau of the Census in its Current Population Survey (CPS). A detailed description of this survey appears in *Concepts and Methods Used in Labor Force Statistics Derived from the Current Population Survey*, BLS Report 463. Historical national data are published in *Labor Force Statistics Derived From the Current Population Survey: A Databook*, BLS Bulletin 2096.

These monthly surveys of the population are conducted through a scientifically selected sample designed to represent the civilian noninstitutional population. Respondents are interviewed to obtain information about the employment status of each member of the household 16 years of age and over. The inquiry relates to activity or status during the calendar week, Sunday through Saturday, which includes the 12th of the month. This is known as the survey week. Actual field interviewing is conducted in the following week.

Inmates of institutions and persons under 14 years of age are not covered in the regular monthly enumerations, and are excluded from the population and labor force statistics shown in this publication. Data on the members of the Armed Forces stationed in the United States, who are included as part of the categories "noninstitutional population," "labor force," and "total employment," are obtained from the Department of Defense.

Each month about 59,500 occupied units are eligible for interview. About 2,500 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 and 5 percent. In addition to the 59,500 occupied units, there are 11,000 sample units in an average month which are visited but found to be vacant or otherwise not enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from one month to the next, and one-half to be common with the same month a year earlier.

## CONCEPTS AND DEFINITIONS

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

*Employed persons* are (a) all civilians who, during the survey week, did any work at all as paid employees, in their own business, profession, or on their own farm, or who worked 15 hours or more as unpaid workers in an enterprise operated by a member of the family; and (b) all those who

were not working but who had jobs or businesses from which they were temporarily absent because of illness, bad weather, vacation, labor-management disputes, or personal reasons, whether they were paid for the time off or were seeking other jobs. Members of the Armed Forces stationed in the United States are also included in the employed total.

Each employed person is counted only once. Those who held more than one job are counted in the job at which they worked the greatest number of hours during the survey week.

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

*Unemployed persons* are all civilians who had no employment during the survey week, were available for work, except for temporary illness, and had made specific efforts to find employment sometime during the prior 4 weeks. Persons who were waiting to be recalled to a job from which they had been laid off or were waiting to report to a new job within 30 days need not be looking for work to be classified as unemployed.

*Duration of unemployment* represents the length of time (through the current survey week) during which persons classified as unemployed had been continuously looking for work. For persons on layoff, duration of unemployment represents the number of full weeks since the termination of their most recent employment. A period of 2 weeks or more during which a person was employed or ceased looking for work is considered to break the continuity of the present period of seeking work. Measurements of mean and median duration are computed from a distribution of single weeks of unemployment.

Unemployment is also categorized according to the status of individuals at the time they began to look for work. The reasons for unemployment are divided into four major groups. (1) *Job losers* are persons whose employment ended involuntarily who immediately began looking for work, and persons on layoff. (2) *Job leavers* are persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work. (3) *Reentrants* are persons who previously worked at a full-time job lasting 2 weeks or longer but were out of the labor force prior to beginning to look for work. (4) *New entrants* are persons who never worked at a full-time job lasting 2 weeks or longer. Each of these four categories of the unemployed may be expressed as an unemployment rate or proportion of the entire civilian labor force; the sum of the four rates thus equals the unemployment rate for all civilian workers.

*Jobseekers* are all unemployed persons who made

specific efforts to find a job sometime during the 4-week period preceding the survey week. Jobseekers do not include those persons unemployed because they (a) were waiting to be called back to a job from which they had been laid off or (b) were waiting to report to a new job within 30 days. Jobseekers are grouped by the methods used to seek work, including going to a public or private employment agency or to an employer directly, seeking assistance from friends or relatives, placing or answering ads, or utilizing some other method. Examples of the "other" category include being on a union or professional register, obtaining assistance from a community organization, or waiting at a designated labor pickup point.

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

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

The *unemployment rate for all civilian workers* represents the number unemployed as a percent of the civilian labor force. This measure can also be computed for groups within the labor force classified by sex, age, race, Hispanic origin, marital status, etc.

*Participation rates* represent the proportion of the population that is in the labor force. The *labor force participation rate* is the ratio of the labor force, including the resident Armed Forces, to the noninstitutional population. The *civilian labor force participation rate* is the ratio of the civilian labor force to the civilian noninstitutional population. Civilian labor force participation rates are usually published for sex-age groups, often cross-classified by other demographic characteristics such as race and educational attainment.

*Employment-population ratios* represent the proportion of the noninstitutional population that is employed. The *total employment-population ratio* is total employment, including the resident Armed Forces, as a percent of the noninstitutional population. The *civilian employment-population ratio* is the percentage of all employed civilians in the civilian noninstitutional population.

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

For persons not in the labor force, data on previous work experience, intentions to seek work, desire for a job at the

time of interview, and reasons for not looking for work are published on a quarterly basis. As of January 1970, the detailed questions for persons not in the labor force are asked only in those households that are in the fourth and eighth months of the sample, i.e., the "outgoing" groups, those which had been in the sample for 3 previous months and would not be in for the subsequent month. Between 1967 and 1969, these questions were asked in those households entering the sample for the first time and those returning for the second 4 months of interviewing, i.e., the "incoming" groups.

*Occupation, industry, and class of worker* for the employed apply to the job held in the survey week. Persons with two or more jobs are classified in the job at which they worked the greatest number of hours during the survey week. The unemployed are classified according to their last full-time job lasting 2 weeks or more. The classifications of occupations and industries used in data derived from the CPS are defined as in the 1980 census. Information on the detailed categories included in these groups is available upon request.

The class-of-worker breakdown specifies wage and salary workers subdivided into private and government workers; self-employed workers; and unpaid family workers. Wage and salary workers receive wages, salary, commission, tips, or pay in kind from a private employer or from a government unit. Self-employed persons are those who work for profit or fees in their own business, profession, or trade, or operate a farm. Unpaid family workers are persons working without pay for 15 hours a week or more on a farm or in a business operated by a member of the household to whom they are related by birth or marriage.

*Hours of work* statistics relate to the actual number of hours worked during the survey week. For example, persons who normally work 40 hours a week but were off on the Columbus Day holiday would be reported as working 32 hours even though they were paid for the holiday. For persons working in more than one job, the figures relate to the number of hours worked in all jobs during the week; all the hours are credited to the major job.

Persons who worked 35 hours or more during the survey week are designated as working *full time*. Persons who worked between 1 and 34 hours are designated as working *part time*. Part-time workers are classified by their usual status at their present job (either full or part time) and by their reason for working part time during the survey week (economic or noneconomic reasons). Economic reasons include: Slack work, material shortages, repairs to plant or equipment, start or termination of a job during the week, and inability to find full-time work. Noneconomic reasons include: Labor dispute, bad weather, own illness, vacation, demands of home or school, no desire for full-time work, and full-time worker only during peak season. Persons on full-time schedules include, in addition to those working 35 hours or more, those who worked from 1 to 34 hours for noneconomic reasons and usually work full time.

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

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

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

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

*Labor force time lost* is a measure of aggregate hours lost to the economy through unemployment and involuntary part-time employment and is expressed as a percent of potentially available aggregate hours. It is computed by assuming that: (1) unemployed persons looking for full-time work lost an average of 37.5 hours, (2) those looking for part-time work lost the average number of hours actually worked by voluntary part-time workers during the survey week, and (3) persons on part time for economic reasons lost the difference between 37.5 hours and the actual number of hours they worked.

*White, black, and other* are terms used to describe the race of workers. Included in the "other" group are American Indians, Alaskan Natives, and Asians and Pacific Islanders. All tables in this publication which contain racial data, with the exception of A-5 and its annual counterpart, present data for the black population group. Because of their relatively small sample size, data for "other" races are not published. In the enumeration process, race is determined by the household respondent.

*Hispanic origin* refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican living on the mainland, Cuban, Central or South American, or of other Hispanic origin or descent. Persons of Hispanic ori-

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

*Vietnam-era veterans* are those who served in the Armed Forces of the United States between August 5, 1964, and May 7, 1975. Data are limited to men in the civilian noninstitutional population; i.e., veterans in institutions and women are excluded. Nonveterans are men who never served in the Armed Forces.

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

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

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

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

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

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

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

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

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

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

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

## HISTORICAL COMPARABILITY

### Change in lower age limit

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

*Report on the Labor Force*, February 1967.

### Noncomparability of labor force levels

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

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

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

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

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

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

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

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

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

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

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

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

### **Changes in the occupational and industrial classification system**

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

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

The 1980 census occupational classification system evolved

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

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

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

### Changes in the sample design

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

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

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

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

Table A provides a description of some aspects of the CPS sample design in use during the different data collection periods. A more detailed account of the history of the CPS sample design appears in the *Current Population Survey: Design and Methodology*, Technical Paper No. 40, Bureau of the Census, or *Concepts and Methods Used in Labor Force Statistics Derived From the Current Population Survey*, Report 463, Bureau of Labor Statistics.

### ESTIMATING METHODS

Under the estimating methods used in the CPS, all of the results for a given month become available simultaneously and are based on returns from the entire panel of respondents. The estimation procedure involves weighting the data from each sample person by the inverse of the probability of the person being in the sample. This gives a rough measure of the number of actual persons that the sample person represents. Beginning in 1985, almost all sample persons within the same State have the same probability of selection. These estimates are then adjusted for noninterviews, and the ratio estimation procedure is applied.

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondents for other reasons. This noninterview adjustment is made separately by combinations of similar sample areas that are not necessarily contained within a State. Similarity of sample areas is based on Metropolitan Statistical Area (MSA) status and size. Within



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

Time period	Number of sample areas	Households eligible		Households visited but not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954 . . . . .	21,000	68	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956 . . . . .	21,000	230	500-1,000	3,000-3,500
May 1956 to Dec. 1959 . . . . .	33,500	1330	1,500	6,000
Jan. 1960 to Feb. 1963 . . . . .	33,500	2333	1,500	6,000
Mar. 1963 to Dec. 1966 . . . . .	33,500	357	1,500	6,000
Jan. 1967 to July 1971 . . . . .	48,000	449	2,000	8,500
Aug. 1971 to July 1972 . . . . .	45,000	449	2,000	8,000
Aug. 1972 to Dec. 1977 . . . . .	45,000	461	2,000	8,000
Jan. 1978 to Dec. 1979 . . . . .	53,500	614	2,500	10,000
Jan. 1980 to Apr. 1981 . . . . .	62,200	629	2,800	12,000
May 1981 to Dec. 1984 . . . . .	57,800	629	2,500	11,000
Jan. 1985 to present . . . . .	57,000	729	2,500	11,000

<sup>1</sup> Beginning in May 1956, these areas were chosen to provide coverage in each State and the District of Columbia

<sup>2</sup> Three sample areas were added in 1960 to represent Alaska and Hawaii after statehood.

each combination of sample areas there is a further breakdown by residence. MSA sample areas are categorized by “central city” and “balance of the MSA”. Residence categories of non-MSA areas are “urban” and “rural”. The proportion of sample households not interviewed varies from 4 to 5 percent, depending on weather, vacation, etc.

2. *Ratio estimates.* The distribution of the population selected for the sample may differ somewhat, by chance, from that of the population as a whole in such characteristics as age, race, sex, and residence. Since these characteristics are closely correlated with labor force participation and other principal measurements made from the sample, the survey estimates can be substantially improved when weighted appropriately by the known distribution of these population characteristics. This is accomplished through two stages of ratio estimates as follows:

a. *First-stage ratio estimate.* In the CPS, a portion of the 729 sample areas is chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The adjustment is made at the State level for each of the 43 States which contain nonsample areas by race cells of black and non-black. The procedure corrects for differences that existed in each cell at the time of the 1980 census between the race distribution of the population in sample areas and the known race distribution of the State.

b. *Second-stage ratio estimate.* In this stage, the sample proportions of persons in specific categories are adjusted to the distribution of independent current estimates of the civilian noninstitutional population in the same categories. The second-stage ratio adjustment, which is performed to further reduce variability of the estimates and to correct to some

extent for CPS undercoverage relative to the decennial census, is carried out in three steps. In the first step, the sample estimates are adjusted within each State and the District of Columbia to an independent control for the population 16 years and over. The second step involves an adjustment by Hispanic origin to a national estimate for eight age-sex categories by Hispanic and non-Hispanic. In the third step, a national adjustment is made by the race categories of white, black, and other races to independent estimates by age and sex. The white and black categories contain 32 age-sex groups each; the other races category has 6 age-sex cells. The entire second-stage adjustment procedure is iterated six times, each time beginning at the weights developed the previous time. This ensures that the sample estimates of the population for both State and national age-sex-race- origin categories will be virtually equal to the independent population control totals. This second-stage adjustment procedure incorporates changes instituted in January 1985. The nature and effect of these changes are discussed in detail in “Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985” in the February 1985 issue of *Employment and Earnings*.

The controls by State for the civilian noninstitutional population 16 years and over are an arithmetic extrapolation of the trend in the growth of this segment of the population from the April 1, 1980, census through the latest available July 1 estimate, adjusted as a last step to a current estimate of the U.S. population of this group. State estimates by age for July 1 are published annually in *Current Population Reports*, Series P-25. For a description of the methodology used in developing the State total, see Report 640 of that series. A description of the age estimates methodology is available on request from the Chief of the Population Division, U.S. Bureau of the Census, Washington, D.C. 20233.

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



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

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

Data on births and deaths between April 1, 1980, and the estimate date are based on tabulations of vital statistics for the resident population made by the National Center for Health Statistics and data on deaths of military personnel overseas from the Department of Defense. Estimates of net civilian immigration are based on data provided by the Immigration and Naturalization Service, the Department of Defense, the Office of Personnel Management, and the Puerto Rico Planning Board. The civilian noninstitutional population is derived by subtracting the Armed Forces and the institutional population for the estimate date from the total including Armed Forces overseas. The institutional population is computed by applying institutional proportions derived from the 1980 census to the total population, including Armed Forces overseas for the estimate date. All computations described above are performed in cells defined by single year of age, race, and sex. The independent national control totals are then obtained by collapsing these cells into broader age groups for the population 16 years and older.

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

3. *Composite estimate procedure.* In deriving statistics for a given month, a composite estimating procedure is used which takes account of net changes from the previous month for continuing parts of the sample (75 percent), as well as the sample results for the current month. Also included is an additional term which is an estimate of the net difference between incoming and continuing parts of the current month's sample. Almost all estimates of month-to-month change are improved by this procedure, and most estimates of level are also improved, but to a lesser extent.

### **Rounding of estimates**

The sums of individual items may not always equal the totals shown in the same tables because of independent rounding of totals and components to the nearest thousand. Similarly, sums of percent distributions may not always equal 100 percent because of rounding. Differences, however, are insignificant.

### **Reliability of the estimates**

There are two types of errors possible in an estimate based on a sample survey—sampling and nonsampling. The standard errors provided primarily indicate the magnitude of the sampling error. They also partially measure the effect of some nonsampling errors in response and enumeration but do not measure any systematic biases in the data.

*Nonsampling error.* The full extent of nonsampling error is unknown, but special studies have been conducted to quantify some sources of nonsampling error in the CPS, as discussed below. The effect of nonsampling error should be small on estimates of relative change, such as month-to-month change. Estimates of monthly levels would be more severely affected by the nonsampling error.

Nonsampling errors in surveys can be attributed to many sources, e.g., inability to obtain information about all cases in the sample, definitional difficulties, differences in the interpretation of questions, inability or unwillingness of respondents to provide correct information, inability to recall information, errors made in collection such as in recording or coding the data, errors made in processing the data, errors made in estimating values for missing data, and failure to represent all sample households and all persons within sample households (undercoverage).

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

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

The effects of some components of nonsampling error in the CPS data can be examined as a result of the rotation plan used for the sample, since the level of the estimates varies by rotation group. A description of these effects appears in "The Effects of Rotation Group Bias on Estimates From Panel Surveys," by Barbara A. Bailar, *Journal of the American Statistical Association*, Volume 70, No. 349, March 1975.

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Compared to the level of the decennial census, undercoverage is about 6 percent. It is known that the CPS undercoverage varies with age, sex, race, and Hispanic origin. Generally, undercoverage is larger for men than for women, and larger for blacks, Hispanics, and other races combined than for whites. Ratio estimation to independent age-sex-race-Hispanic origin population controls, as described previously, partially corrects for the biases due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race-Hispanic origin group. Further, the independent population controls used have not been adjusted for undercoverage in the 1980 census.

Additional information on nonsampling error in the CPS appears in "An Error Profile: Employment as Measured by the Current Population Survey," by Camilla Brooks and Barbara Bailar, Statistical Policy Working Paper 3, U.S. Department of Commerce, Office of Federal Statistical Policy and Standards; in "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Vol. 2, April 1973; and in *The Current Population Survey, Design and Methodology*, Technical Paper No. 40, Bureau of the Census, U.S. Department of Commerce. This last document includes a comprehensive discussion of various sources of error and describes attempts to measure them in the CPS.

**Sampling error.** The standard error is primarily a measure of sampling variability, that is, of the variation that occurs by chance because a sample rather than the entire population is surveyed. The sample estimate and its estimated standard error enable one to construct confidence intervals, ranges that would include the average of all possible samples with a known probability. For example, if all possible samples were selected, each of these surveyed under essentially the same general conditions and using the same sample design, and an estimate and its estimated error were calculated from each sample, then:

1. Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average result of all possible samples.

2. Approximately 90 percent of the intervals from 1.6

standard errors below the estimate to 1.6 standard errors above the estimate would include the average of all possible samples.

3. Approximately 95 percent of the intervals from 2 standard errors below the estimate to 2 standard errors above the estimate would include the average result of all possible samples.

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations are required. First, the standard errors in this volume reflect the sample design and estimation procedures in effect prior to the expansions for State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Second, instead of computing an individual standard error for each estimate, generalized sets of standard errors are computed for various types of characteristics. This generalization yields more stable estimates of the standard errors. Consequently, the sets of standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

Tables B and C show approximate standard errors for major employment status characteristics for monthly estimates and for changes for consecutive months. These standard errors are applicable to the level of the estimates in recent months.

Tables D through H provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table I contains factors for use with table H for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the table may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between 2 consecutive months. Estimates of change for non-consecutive months are subject to higher standard errors. Table J contains factors for use with tables D, F, H, and I to compute approximate standard errors for levels, labor force participation rates, and percentages as pertaining to the year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. Note that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50, and for the 1956-66 period they should be multiplied by 1.22. Table K provides generalized standard



reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages are not published when the monthly base is less than 75,000, the quarterly average base is less than 60,000, or the annual average base is less than 35,000.

Tables F and G show generalized standard errors for monthly level and month-to-month change for unemployment rates. Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentage can be obtained through the use of the standard errors in table H and the factors in table I. First, obtain the standard error from table H for the specific percentage and base. The generalized standard error is then calculated by multiplying the standard error from table H by the appropriate factor from table I. When the numerator and denominator of the percentage are in different categories, use the factor indicated by the numerator of the percentage.

*Illustration.* Assume that in a given month 3.6 percent of a total of 90,771,000 employed persons are employed in agriculture. The standard error on an estimate of 3.6 percent with a base of 90,771,000 is obtained from table H (0.09 percent). The appropriate factor from table I for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error on the estimated 3.6 percent is then approximately  $0.09 \times 1.26 = 0.1$  percentage point.

*Standard errors for year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages.* The approximate standard errors of levels, rates, and percentages involving year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages may be obtained by using table J in conjunction with the other tables. Standard errors for estimates of change are more closely related to the level of the estimate than to the size of the specific change. Thus, to obtain the standard error of an estimate of an average level, rate, or percentage, or an estimate of a change in level, rate, or percentage, it is first necessary to find the appropriate estimate of level. For an estimate of an average level, rate, or percentage, find the standard error of this estimate. For an estimate of change in level, rate, or percentage, find the standard error of the average of the two estimates affecting the change. Then, after computing the standard error by treating these estimates as monthly estimates and using the procedures above, multiply this result by a suitable factor from table J to obtain the approximate standard error for the average or change.

*Illustration.* Suppose that one is interested in the year-to-year change of a monthly unemployment rate. Assume that for a certain month the unemployment rate is 6.9 percent, based on a total of 95,676,000 in the civilian labor force, and that

**Table D. Standard errors for estimates of monthly level**

(in thousands)

Estimated monthly level	Characteristic <sup>1</sup>								
	Agricultural employment	Unemployment		Labor force data other than agricultural employment and unemployment					
		Total or white	Black	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years	Total or white men only, or women only	Black men only, or women only
50 . . . . .	14	10	11	11	11	11	11	10	10
100 . . . . .	19	15	16	15	15	15	15	14	14
500 . . . . .	43	33	35	34	34	33	29	32	31
1,000 . . . . .	61	47	49	48	47	46	33	45	42
2,000 . . . . .	85	66	67	68	64	63	-	63	55
4,000 . . . . .	120	93	88	95	84	80	-	87	66
6,000 . . . . .	146	113	99	116	94	86	-	105	58
8,000 . . . . .		129		133	97	83	-	120	23
10,000 . . . . .		143		147	94	70	-	132	-
15,000 . . . . .		172		177	50		-	155	
20,000 . . . . .		195		201	-		-	170	
30,000 . . . . .		-		236			-	188	
40,000 . . . . .				261			-	189	
50,000 . . . . .				278			-	175	
60,000 . . . . .				288			-	141	
70,000 . . . . .				293			-	61	
80,000 . . . . .				293			-		
100,000 . . . . .				273			-		
120,000 . . . . .				231			-		

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

<sup>1</sup> See footnote 1, table D.

<sup>2</sup> Part-time labor force for unemployment also includes persons reentering

the labor force, persons who left their last job, and persons by duration of unemployment.

a year prior to this the unemployment rate was 6.1 percent, based on a total of 94,254,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.5 percent with a base of 94,965,000, is obtained from table F (0.12 percentage point). The appropriate factor, then, from table J is 1.40. The approximate standard error on the change of 0.8 percent is then given by 0.12 x 1.40 = 0.17 percentage point.

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

Standard error of year-to-year change =

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

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

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

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

$$\sqrt{(216,000)^2 + (221,000)^2 - 2(.30) (216,000) (221,000)}$$

or about 259,000.

**Table F. Standard errors for unemployment rates**

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50 . . . . .	2.09	2.94	4.57	6.28	7.46	8.34	9.01	9.05	9.87	10.21
100 . . . . .	1.48	2.08	3.23	4.44	5.28	5.90	6.37	6.73	6.98	7.22
500 . . . . .	.66	.93	1.45	1.99	2.36	2.64	2.85	3.01	3.12	3.27
1,000 . . . . .	.47	.66	1.02	1.40	1.67	1.87	2.01	2.13	2.21	2.28
2,000 . . . . .	.33	.46	.72	.99	1.18	1.32	1.42	1.50	1.56	1.61
4,000 . . . . .	.23	.33	.51	.70	.83	.93	1.01	1.06	1.10	1.14
6,000 . . . . .	.19	.27	.42	.57	.68	.76	.82	.87	.90	.93
10,000 . . . . .	.15	.21	.32	.44	.53	.59	.64	.67	.70	.72
20,000 . . . . .	.10	.15	.23	.31	.37	.42	.45	.47	.49	.51
60,000 . . . . .	.06	.08	.13	.18	.21	.24	.26	.27	.27	.29
100,000 . . . . .	.05	.07	.10	.14	.17	.19	.20	.21	.22	.22

**Table G. Standard errors for month-to-month change in unemployment rates**

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50 . . . . .	2.32	3.28	5.14	7.18	8.69	9.90	10.93	11.81	12.58	14.48
100 . . . . .	1.64	2.32	3.64	5.08	6.14	7.00	7.12	8.35	8.89	10.17
500 . . . . .	.73	1.04	1.63	2.27	2.74	3.13	3.45	3.73	3.97	4.53
1,000 . . . . .	.52	.73	1.15	1.60	1.94	2.21	2.44	2.63	2.80	3.19
2,000 . . . . .	.37	.52	.81	1.13	1.37	1.56	1.72	1.85	1.97	2.24
4,000 . . . . .	.26	.37	.57	.80	.96	1.10	1.20	1.30	1.38	1.56
6,000 . . . . .	.21	.30	.47	.65	.78	.89	.98	1.05	1.11	-
10,000 . . . . .	.16	.23	.36	.50	.60	.68	.75	.80	-	-
20,000 . . . . .	.12	.16	.25	.35	.42	.47	.51	.54	-	-
60,000 . . . . .	.07	.09	.14	.19	.22	.23	.24	-	-	-
100,000 . . . . .	.05	.07	.11	.14	.15	.15	-	-	-	-

**Table H. Standard errors for estimated percentages and month-to-month change in percentages for labor force data**

Monthly base of percentages (in thousands)	Percentage of monthly level									
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	30 or 70	35 or 65	50
50 . . . . .	2.14	3.01	4.69	6.46	7.68	8.61	9.32	9.86	10.27	10.76
100 . . . . .	1.51	2.13	3.32	4.57	5.43	6.09	6.59	6.97	7.26	7.61
500 . . . . .	.68	.95	1.48	2.04	2.43	2.72	2.95	3.12	3.25	3.40
1,000 . . . . .	.48	.67	1.05	1.44	1.72	1.92	2.08	2.21	2.30	2.41
2,000 . . . . .	.34	.48	.74	1.02	1.22	1.36	1.47	1.56	1.62	1.70
4,000 . . . . .	.24	.34	.52	.72	.86	.96	1.04	1.10	1.15	1.20
6,000 . . . . .	.20	.28	.43	.59	.70	.79	.85	.90	.94	.98
10,000 . . . . .	.15	.21	.33	.46	.54	.61	.66	.70	.73	.76
20,000 . . . . .	.11	.15	.23	.32	.38	.43	.47	.49	.51	.54
40,000 . . . . .	.08	.11	.17	.23	.27	.30	.33	.35	.36	.38
60,000 . . . . .	.06	.09	.14	.19	.22	.25	.27	.28	.30	.31
80,000 . . . . .	.05	.08	.12	.16	.19	.22	.23	.25	.26	.27
100,000 . . . . .	.05	.07	.10	.14	.17	.19	.21	.22	.23	.24
160,000 . . . . .	.04	.05	.08	.11	.13	.15	.16	.17	.18	.19

NOTE: The standard errors in this table must be multiplied by the factors in table I to obtain the approximate standard error for a specific characteristic.

**Table I. Factors to be used with table H to compute approximate standard errors for percentages and month-to-month change in percentages**

Characteristic	Factor		Characteristic	Factor	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Agricultural employment:			Unemployment:		
Total or full-time labor force . . . . .	1.26	1.05	Part-time labor force, duration of unemployment, left last job, reentering labor force . . . . .	1.01	1.21
Part-time labor force . . . . .	1.26	1.50	All other unemployment characteristics:		
Labor force data other than agricultural employment and unemployment:			Total or white:		
Total . . . . .	1.00	.74	Total . . . . .	.97	1.08
Men only . . . . .	.93	.84	Both sexes, 16 to 19 years . . . . .	.97	1.21
Women only . . . . .	.86	.75	Black:		
Both sexes, 16 to 19 years . . . . .	1.00	1.18	Total . . . . .	1.04	1.13
Part-time labor force . . . . .	1.00	1.18	Both sexes, 16 to 19 years . . . . .	1.04	1.24

**Table J. Factors to be used with tables D, F, H, and I to compute the approximate standard errors for levels, rates, and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages, and change in yearly averages**

Characteristic	Factor				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or men . . . . .	1.30	0.89	0.80	0.72	0.70
Women or teenagers (16 to 19 years) . . . . .	1.30	.83	.80	.58	.70
Part time . . . . .	1.40	.74	.80	.46	.70
Labor force data other than agricultural employment and unemployment:					
Total or white . . . . .	1.30	.88	.88	.67	.70
Black teenagers (16 to 19 years) . . . . .	1.30	.82	.88	.57	.70
Part time . . . . .	1.40	.74	.88	.46	.60
Unemployment:					
Total . . . . .	1.40	.76	.88	.50	.65
Part time . . . . .	1.40	.69	.88	.39	.54

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

(In thousands)

Estimated quarterly level	Characteristic								
	Total			Men				Women	
	Part-time workers	Total or full-time workers		Part-time workers	Total or full-time workers			Total, full-time, or part-time workers	
		Total or white	Black		Total	White	Black	Total or white	Black
10 . . . . .	5	5	5	5	5	5	5	5	5
50 . . . . .	11	12	12	11	12	12	12	11	11
75 . . . . .	13	15	15	13	15	15	15	13	13
100 . . . . .	15	17	17	15	17	17	17	15	15
150 . . . . .	19	21	21	19	21	21	21	19	19
200 . . . . .	22	24	24	22	24	24	24	22	21
250 . . . . .	24	27	27	24	27	27	27	24	24
300 . . . . .	26	30	30	26	30	30	29	26	26
500 . . . . .	34	38	38	34	38	38	37	34	33
750 . . . . .	42	47	46	42	47	47	45	42	41
1,000 . . . . .	48	54	53	48	54	54	50	48	46
1,500 . . . . .	59	66	63	59	66	66	59	59	56
2,000 . . . . .	68	76	72	68	76	76	65	68	63
2,500 . . . . .	76	85	79	75	84	84	69	75	69
3,000 . . . . .	83	93	85	82	92	92	71	82	74
5,000 . . . . .	107	119	100	105	117	116	64	105	85
7,500 . . . . .	130	145	107	127	140	138		127	
10,000 . . . . .	149	165	102	144	157	155		145	
15,000 . . . . .	180	198	-	187	183	179		173	
20,000 . . . . .	205	224		192	199	193		195	
25,000 . . . . .	226	244		207	209	199		211	
30,000 . . . . .	224	261		219	212	198		224	
40,000 . . . . .	273	286		236	201	174		242	
50,000 . . . . .	296	301		-	-			-	
75,000 . . . . .	331	304							
100,000 . . . . .	343	255							



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

## COLLECTION

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

### Federal-State cooperation

Under cooperative arrangements, responding establishments report employment, hours, and earnings data to State agencies. State agencies mail the forms to the establishments and examine the returns for consistency, accuracy, and completeness. The States use the reported data to prepare State and area series and also send the reported data to the BLS (Washington Office) for use in preparing the national series. This avoids a duplicate reporting burden on establishments, and, together with the use of similar estimating techniques at the national and State levels, promotes increased comparability between estimates.

### Shuttle schedules

Form BLS 790—Report on Employment, Payroll, and Hours is the name of the data collection schedule. The collection agency returns the schedule to the respondent each month so that the next month's data can be entered on the space allotted for that month. This "shuttle" procedure assures maximum comparability and accuracy of reporting, since the respondent can see the figures that have been reported for previous months.

Form BLS 790 provides for entry of data on the total number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, employment, payroll, and hours of production and related workers or nonsupervisory workers for the pay period which includes the 12th of the month.

## CONCEPTS

### Industrial classification

Establishments reporting on Form BLS 790 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. Since January 1980, this information is collected on a supplement to the quarterly unemployment insurance tax reports filed by employers. For an establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the

industry indicated by the principal product or activity.

All data on employment, hours, and earnings for the Nation and for States and areas are classified in accordance with the 1972 *Standard Industrial Classification Manual (SICM)*, Office of Management and Budget. The BLS tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sector.

### Industry employment

Employment data, except those for the Federal Government, refer to persons on establishment payrolls who received pay for any part of the pay period which includes the 12th of the month. For Federal Government establishments, employment figures represent the number of persons who occupied positions on the last day of the calendar month. Intermittent workers are counted if they performed any service during the month.

The data exclude proprietors, the self-employed, unpaid volunteer or family workers, farm workers, and domestic workers. Salaried officers of corporations are included. Government employment covers only civilian employees; military personnel are excluded. Employees of the Central Intelligence Agency and the National Security Agency also are excluded.

Persons on establishment payrolls who are on paid sick leave (when pay is received directly from the firm), on paid holiday, on paid vacation, or who work during a part of the pay period even though they are unemployed or on strike during the rest of the period are counted as employed. Not counted as employed are persons who are on layoff, on leave without pay, on strike for the entire period, or who were hired but have not yet reported during the period.

*Indexes of diffusion of changes in number of employees on nonagricultural payrolls.* These indexes measure the percent of industries which posted increases in employment over the specified time span. The indexes are calculated from 185 seasonally adjusted employment series (two-digit non-manufacturing industries and three-digit manufacturing industries) covering all nonagricultural payroll employment in the private sector. A more detailed discussion of these indexes appears in "Introduction of Diffusion Indexes," in the December issue of *Employment and Earnings*.

### Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in construction, and nonsupervisory employees in private service-producing industries.

*Production and related workers* include working supervisors and all nonsupervisory workers (including group leaders and trainees) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping, trucking, hauling, maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with the above production operations.

*Construction workers* include the following employees in the construction division: Working supervisors, qualified craft workers, mechanics, apprentices, helpers, laborers, etc., engaged in new work, alterations, demolition, repair, maintenance, etc., whether working at the site of construction or working in shops or yards at jobs (such as precutting and preassembling) ordinarily performed by members of the construction trades.

*Nonsupervisory employees* include employees (not above the working supervisory level) such as office and clerical workers, repairers, salespersons, operators, drivers, physicians, lawyers, accountants, nurses, social workers, research aides, teachers, drafters, photographers, beauticians, musicians, restaurant workers, custodial workers, attendants, line installers and repairers, laborers, janitors, guards, and other employees at similar occupational levels whose services are closely associated with those of the employees listed.

*Payroll* covers the payroll for full- and part-time production, construction, or nonsupervisory workers who received pay for any part of the pay period which includes the 12th of the month. The payroll is reported before deductions of any kind, e.g., for old-age and unemployment insurance, group insurance, withholding tax, bonds, or union dues; also included is pay for overtime, holidays, vacation, and sick leave paid directly by the firm. Bonuses (unless earned and paid regularly each pay period); other pay not earned in the pay period reported (e.g., retroactive pay); tips; and the value of free rent, fuel, meals, or other payment in kind are excluded. "Fringe benefits" (such as health and other types of insurance, contributions to retirement, etc., paid by the employer) are also excluded.

*Hours* cover the hours paid for during the pay period which includes the 12th of the month for production, construction, or nonsupervisory workers. Included are hours paid for holidays, vacations, and for sick leave when pay is received directly from the firm.

*Overtime hours* cover hours worked by production or related workers for which overtime premiums were paid because the hours were in excess of the number of hours of either the straight-time workday or the workweek during the pay period which included the 12th of the month. Weekend and holiday hours are included only if overtime premiums were paid. Hours for which only shift differential, hazard, incentive, or other similar types of premiums were paid are excluded.

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

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

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

*Average overtime hours.* The overtime hours represent that portion of the average weekly hours which exceeded regular hours and for which overtime premiums were paid. If an employee were to work on a paid holiday at regular rates, receiving as total compensation his or her holiday pay plus straight-time pay for hours worked that day, no overtime hours would be reported.

Since overtime hours are premium hours by definition, weekly hours and overtime hours do not necessarily move in the same direction from month to month; for example, overtime premiums may be paid for hours in excess of the straight-time workday although less than a full week is worked. Diverse trends at the industry group level also may be caused by a marked change in hours for a component industry where little or no overtime was worked in both the previous and current months. In addition, such factors as work stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on average hours.

*Average hourly earnings.* Average hourly earnings are on a "gross" basis. They reflect not only changes in basic hourly and incentive wage rates but also such variable factors as premium pay for overtime and late-shift work and changes in output of workers paid on an incentive plan. They also reflect shifts in the number of employees between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments. Averages for groups and divisions further reflect changes in average hourly earnings for individual industries.

Averages of hourly earnings differ from wage rates. Earnings are the actual return to the worker for a stated period of time; rates are the amount stipulated for a given unit of work or time. The earnings series do not measure the level of total labor costs on the part of the employer since the following are excluded: Irregular bonuses, retroactive items, payments of various welfare benefits, payroll taxes paid by employers, and earnings for those employees not covered under production worker, construction worker, or nonsupervisory employee definitions.

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

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

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

*Average hourly earnings excluding overtime.* Average hourly earnings, excluding overtime premium pay, are computed by dividing the total production worker payroll for the industry group by the sum of total production worker hours and one-half of total overtime hours. No adjustments are made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

*Railroad hours and earnings.* The figures for Class I railroads (excluding switching and terminal companies) are based on monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. Average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by the number of employees, as defined above. Average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

*Average weekly earnings.* These estimates are derived by multiplying average weekly hours estimates by average hourly earnings estimates. Therefore, weekly earnings are affected not only by changes in average hourly earnings but also by changes in the length of the workweek. Monthly variations in such factors as the proportion of part-time workers, stoppages for varying reasons, labor turnover during the survey period, and absenteeism for which employees are not paid may cause the average workweek to fluctuate.

Long-time trends of average weekly earnings can be affected by structural changes in the makeup of the work force. For example, persistent long-term increases in the proportion of part-time workers in retail trade and many of the services industries have reduced average workweeks in these industries and have affected the average weekly earnings series.

*Real earnings*, or earnings in constant dollars, are calculated from the earnings averages for the current month using a deflator derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

## ESTIMATING METHODS

The principal features of the procedure used to estimate employment for the establishment statistics are (1) the use of the "link relative" technique, which is a form of ratio estimation; (2) periodic adjustment of employment levels to new benchmarks; and (3) the use of size and regional stratification.

### The "link relative" technique

From a sample composed of establishments reporting for both the previous and current months, the ratio of current-month employment to that of the previous month is computed. This is called a "link relative." The estimates of employment (all employees, including production and nonproduction workers together) for the current month are obtained by multiplying the estimates for the previous month by these link relatives. In addition, bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past benchmark comparisons. Beginning with data for April 1983, these factors are modified by changes in the sample link relatives for the most recent quarter. Other features of the general procedures are described in table L.

### Size and regional stratification

A number of industries are stratified by size of establishment and/or by region, and the stratified production or non-supervisory worker data are used to weight the hours and earnings for aggregation into broader industry groupings. Accordingly, the basic estimating cell for an employment, hours, or earnings series, as the term is used in the summary of computational methods in table L, may be a whole industry or a size stratum, a region stratum, or a size stratum of a region within an industry.

### Benchmark adjustments

Employment estimates are compared periodically with benchmarks (comprehensive counts of employment) for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1986 levels. Normally, benchmark adjustments are made annually.

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

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

Employment, hours, and earnings	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry level (division and, where stratified, industry)
Monthly data		
All employees . . . . .	All-employee estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months. <sup>1</sup>	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. <sup>2</sup>	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. <sup>2</sup>	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. <sup>2</sup>	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. <sup>2</sup>	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.

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.

<sup>2</sup> The sample production-worker ratio, women-worker ratio, average weekly hours, average overtime hours, and average hourly earnings are modified by

a wedging technique designed to compensate for changes in the sample arising mainly from the voluntary character of the reporting. The wedging procedure accepts the advantage of continuity from the use of the matched sample and, at the same time, tapers or wedges the estimate toward the level of the latest sample average.

from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1986 benchmark adjustment is shown in table M.

Data for all months since the last benchmark to which the series has been adjusted are subject to revision. Revised data are published as soon as possible after each benchmark revision.

## THE SAMPLE

### Design

The sampling plan used in the establishment survey is known as "sampling proportionate to average size of establishment." This design is an optimum allocation design among strata since the sampling variance is proportional to the average size of establishments. Under this type of design, large establishments fall into the sample with certainty. The size of the sample for the various industries is determined empirically on the basis of experience and of cost considerations. In a manufacturing industry in which a high proportion of total employment is concentrated in relatively few establishments, a larger percent of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments, with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is

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

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

<sup>1</sup>Less than 0.05 percent.

in small establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to design samples for these industries with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuation from regular cyclical or seasonal patterns than do establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

In the context of the BLS establishment survey program, with its emphasis on producing timely data at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after the reference period, and, at a somewhat later date, statistics in considerably greater industrial detail.

### Coverage

The BLS sample of establishment employment and payrolls is the largest monthly sampling operation in the field of social statistics. Table N shows the approximate proportion of total employment in each industry division covered by the group of establishments furnishing monthly employment data. The coverage for individual industries within the division may vary from the proportions shown.

**Table N. Approximate size and coverage of BLS employment and payrolls sample, March 1986<sup>1</sup>**

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

<sup>1</sup> Since a few establishments do not report payroll and hours information, hours and earnings estimates may be based on a slightly smaller sample than employment estimates.

<sup>2</sup> National estimates of Federal employment by agency are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 5,000 reports covering about 62 percent of employment in Federal establishments.

## Reliability

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

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

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.

**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 <sup>1</sup>	Relative error <sup>2</sup>	
		Average weekly hours	Average hourly earnings
Total ..	0.2		
Total private ..	.3	0.1	0.2
Mining .....	2.7	1.0	1.3
Construction ..	1.2	.2	.5
Manufacturing ..	.7	.1	.2
Durable goods ..	.8	.1	.3
Nondurable goods ..	.7	.1	.2
Transportation and public utilities ..	.4	.7	.6
Wholesale trade ..	.7	.2	.4
Retail trade ..	1.0	.2	.4
Finance, insurance, and real estate ..	.2	.2	.4
Services ..	.2	.4	.6
Government <sup>3</sup> ..	.4	—	—

<sup>1</sup> The average percent revision in employment for the 1982-86 benchmarks.

<sup>2</sup> Relative errors relate to 1982 data.

<sup>3</sup> 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.

## 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 <sup>1</sup>	Relative error <sup>2</sup> (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

<sup>1</sup> Assuming 12-month intervals between benchmark revisions.

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

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

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

## COLLECTION

Productivity data are compiled by the Bureau of Labor Statistics from establishment data and from estimates of compensation and gross national product supplied by the U.S. Department of Commerce and the Federal Reserve Board.

## CONCEPTS

*Hours* of wage and salary workers in nonagricultural establishments refer to hours paid for all employees—production workers, nonsupervisory workers, and salaried workers.

*Output* is the constant-dollar market value of final goods and services produced in a given period. Indexes of *output per hour* of all persons measure changes in the volume of goods and services produced per paid hour of labor input.

*Compensation per hour* includes wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. The data also include an estimate of wages, salaries, and supplementary payments for the self-employed, except for nonfinancial corporations, in which there are no self-employed.

*Real compensation per hour* is compensation per hour adjusted to eliminate the effect of changes in the Consumer Price Index for All Urban Consumers (CPI-U).

*Unit labor costs* measure the labor compensation cost required to produce one unit of output and are derived by dividing compensation per hour by output per hour.

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

puted by subtracting compensation of all persons from the current-dollar gross national product and dividing by output. In these tables, unit nonlabor costs contain all the components of unit nonlabor payments except unit profits.

*Unit profits* include corporate profits and inventory valuation adjustments per unit of output.

The *implicit price deflator* is derived by dividing the current-dollar estimate of gross product by the constant-dollar estimate, making the deflator, in effect, a price index for gross product of the sector reported.

## NOTES ON THE DATA

For the business sector and the nonfarm business sector, these indexes relate to the gross domestic product less households and institutions, owner-occupied housing, and the statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the gross domestic product of nonfinancial corporate business.

Manufacturing output data are supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis. Compensation and hours data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics. Historical statistics for most productivity measures appear in *Trends in Multifactor Productivity, 1948-81*, BLS Bulletin 2178. Additional information may be obtained from the Office of Productivity and Technology (202 523-9261).

## State and Area Labor Force Data (D table)

### FEDERAL-STATE COOPERATIVE PROGRAM

Labor force and unemployment estimates for States, labor market areas (LMA's), and other areas covered under Federal assistance programs are developed by State employment security agencies under a Federal-State cooperative program. The local unemployment estimates which are derived from standardized procedures developed by BLS are the basis of determining eligibility of an area for benefits under Federal programs such as the Job Training Partnership Act and the Public Works and Economic Development Act.

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

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

Labor force and unemployment estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The report "Employment and Unemployment in States and Local Areas" is published monthly through GPO and is available on microfiche only on a subscription basis.

### ESTIMATING METHODS

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



North Carolina, and Florida; and two areas: Los Angeles—Long Beach metropolitan area and New York City, are sufficiently reliable to be used directly from the CPS. For a description of the CPS concepts, see “Household Data,” above.

Monthly labor force and unemployment estimates in the remaining 39 States, the District of Columbia, and over 2,600 labor market areas are prepared in several stages. The civilian labor force is the sum of the employment and unemployment levels, which are estimated in accordance with the BLS *Manual for Developing Local Area Unemployment Statistics*.

1. *Preliminary estimate—employment*: The total civilian employment estimate is based on data from the survey of establishments which produces an estimate of payroll employment. This place-of-work estimate must be adjusted to refer to place of residence as used in the CPS. Factors for adjusting from place of work to place of residence have been developed for the several categories of employment on the basis of employment relationships which existed at the time of the 1980 decennial census. These factors are applied to the payroll employment estimates for the current period to obtain adjusted employment estimates to which are added estimates for employment not covered by unemployment insurance (UI).

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

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

The estimate of those previously employed in industries not covered by UI is derived by applying to the employment estimate for each noncovered industry or class of worker subgroup in the State, the ratio of covered unemployment to covered employment weighted by factors reflecting national historical relationships.

For the third category, new entrants and reentrants into the labor force, a composite estimate is developed from equations that relate the total entrants into the labor force to the experienced unemployed and the experienced labor force. For each month, the estimate of entrants into the labor force is a function of: (a) the month of the year; (b) the level of

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

3. *Monthly reconciliation with the CPS*. Each month correction factors for employment and unemployment are applied at the State level to the UI-based estimates obtained above for each of the 39 States and the District of Columbia. These correction factors are based on the ratio of the CPS to the UI-based estimates for the 6-month period ending in the current month (e.g., a 6-month moving average). The adjustment is necessary because the State-prepared estimates are not as reliable as the CPS data due to differences in the State UI laws, the structural limitations of the UI-based estimating method, and errors in the UI data.

4. *Substate adjustment for additivity*. Independent estimates of employment and unemployment are prepared for the State (obtained directly from the CPS in the 11 large States or by the UI-based method in the remaining States), and labor market areas (LMA's) within the State. The total of the geographic areas in the LMA's exhausts the geographic boundaries of the State. A proportional adjustment is applied to all substate LMA estimates to ensure that the sub-State estimates of employment and unemployment add to the independent State totals. In California and New York, which also have sub-State areas taken directly from the CPS, the additivity adjustment for the remaining areas is applied to the State total minus the direct CPS area.

5. *Benchmark correction procedures*. Once each year, monthly estimates prepared by the State employment security agencies using UI-based estimating procedures are adjusted, or benchmarked, by BLS to the annual average CPS estimates for the 39 States and the District of Columbia for which monthly CPS estimates are not used directly. This adjustment is made because the State-prepared monthly estimates are not as reliable as the CPS annual averages due to the limitations of the 6-month moving average adjustment procedure. Revisions to the inputs used in the UI-based estimates are also made at the time of the annual benchmark.

The State wide benchmarked estimates are produced in three stages. First the monthly UI-based estimates are adjusted by the ratio of the CPS to the UI-based annual averages. Second, the difference between the ratio of annual averages for two consecutive years is wedged into the monthly estimates in order to minimize the disturbance to the original series. Finally, the third-stage estimates are forced into agreement with CPS annual averages. In the 11 States for which CPS estimates are used monthly, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal CPS annual averages.

## Seasonal Adjustment

Over the course of a year, the size of the Nation's labor force, the levels of employment and unemployment, and other measures of labor market activity undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make it easier to observe the cyclical and other nonseasonal movements in the series. In evaluating changes in a seasonally adjusted series, it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, since they are subject not only to sampling and other errors but are also affected by the uncertainties of the seasonal adjustment process itself. Seasonally adjusted series for selected labor force and establishment-based data are published regularly in *Employment and Earnings*.

The seasonal adjustment program used for these series is an adaptation of the standard ratio-to-moving-average method. It provides for "moving" adjustment factors to take account of changing seasonal patterns. A detailed description of the method is given in *The X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

Beginning in January 1980, BLS introduced two major modifications in the seasonal adjustment methodology for data from the household survey. First, the data are being seasonally adjusted with a procedure called X-11 ARIMA, which was developed at Statistics Canada as an extension of the existing standard X-11 method. A detailed description of the procedure appears in *The X-11 ARIMA Seasonal Adjustment Method*, by Estela Bee Dagum, Statistics Canada Catalogue No. 12-564E, January 1983. The X-11 procedure was originally developed at the Bureau of the Census and had been used by the BLS to seasonally adjust labor force series since 1973. Tests have shown that use of the X-11 ARIMA procedure, which places more emphasis on recent data, provides better seasonal adjustments than does the X-11 method alone.

The second change is that seasonal adjustment factors are calculated for use during the first 6 months of the year rather than for the entire year. In July of each year, BLS calculates and publishes in *Employment and Earnings* a set of seasonal adjustment factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years are made at the beginning of each calendar year. However, as a result of the revisions to the estimates for 1970-81 based on 1980 census population counts, revisions to seasonally adjusted series in early 1982 were carried back to 1970.

All labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. For example, for each of the three major labor force components—agricultural employment, nonagricultural employment, and unemployment—data for four sex-age groups (men and women under and over 20 years of age) are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. The seasonally adjusted figure for the labor force is the sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force. Because of the independent seasonal adjustment of various series, components will not necessarily add to totals.

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

Beginning in July 1980, the BLS also uses the X-11 ARIMA methodology in seasonally adjusting the establishment data, which previously had been computed using the *BLS Seasonal Factor Method*. All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors used in calculating the current year's estimates are based on actual data through March 1987 and projected data through March 1988. The ARIMA model options for projecting the data series for 1 year ahead have been used in seasonally adjusting the establishment series since June 1981.

Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours.

Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production

or nonsupervisory workers, seasonally adjusted, and dividing by the 1977 base. For total private, total goods-producing, total private service-producing, wholesale trade, retail trade, manufacturing, and durable and nondurable goods industries, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1977 base.

Seasonally adjusted data are not published for a number of series characterized by small seasonal components relative to their trend-cycle and/or irregular components. These failed or unsatisfactory seasonally adjusted series are used in the aggregation to broader level seasonally adjusted series, however.

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

ed data which include Christmas temporary workers employed by the Postal Service. In earlier years the number of these workers was substantial, and at times varied greatly from year to year, based on administrative decisions of the Postal Service. Hence, it was considered desirable to exclude this group from the unadjusted data upon which the seasonal adjustment factors were based. In the past several years, the number of these workers has decreased to the point where their presence has no impact on seasonal adjustment. Temporary census takers for the 1980 decennial census are removed prior to the calculation of seasonal adjustment factors for Federal Government employment.

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

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IX ARIZONA	-Department of Economic Security, 733-A, P.O. Box 6123, Phoenix 85005
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