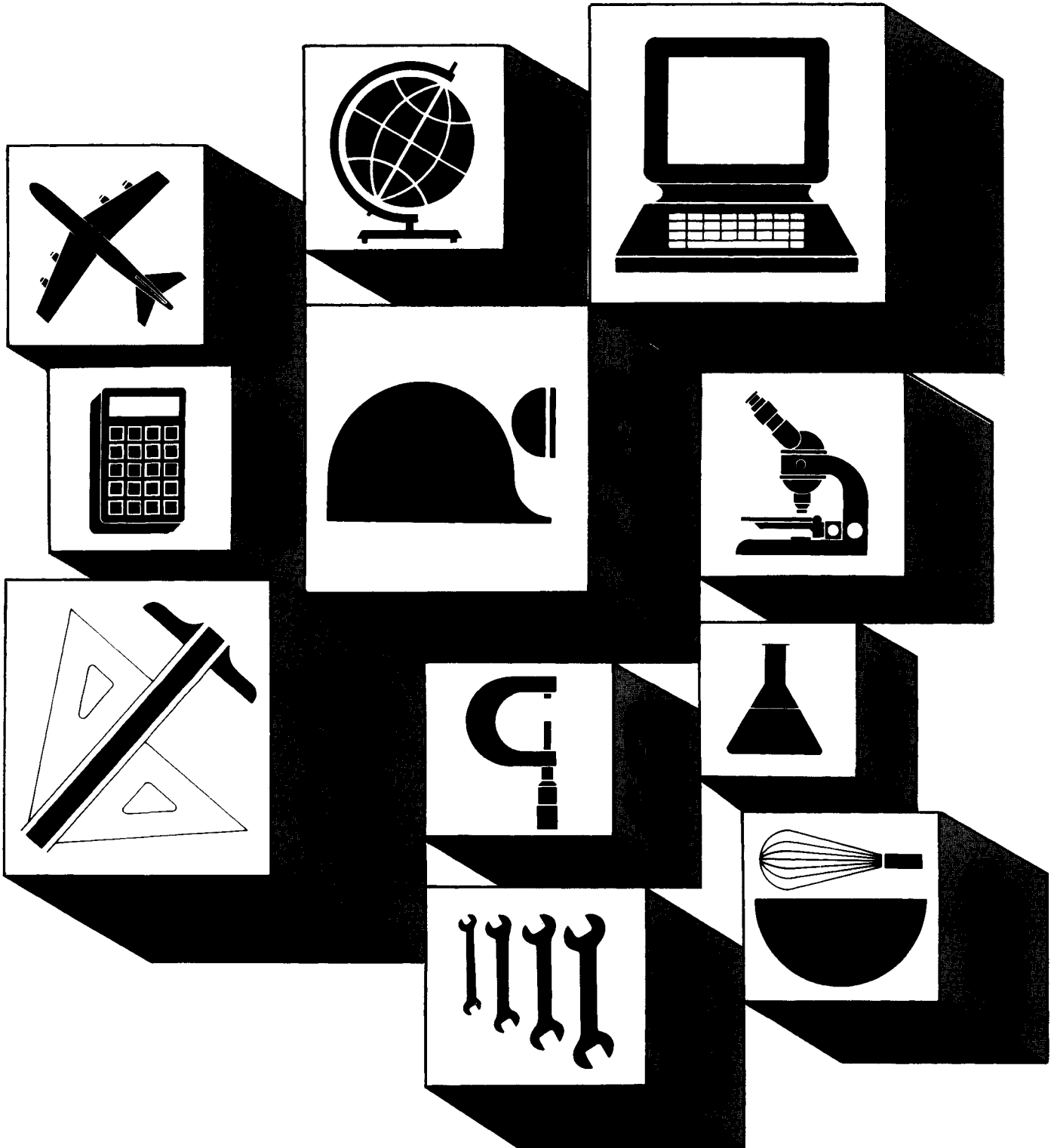




# EMPLOYMENT AND EARNINGS

In this issue: Establishment data adjusted to new benchmarks

U.S. Department of Labor  
Bureau of Labor Statistics  
June 1991





## 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.
Earnings by detailed occupation	Jan.
Employee absences	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> A supplement is forthcoming.

# Employment and Earnings

Vol. 38 No. 6 June 1991

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Editors: Gloria Peterson Green, Eugene H. Becker

## Editors' Note

Beginning with this issue, national estimates of employment, hours, and earnings from the monthly survey of business establishments have been revised to reflect March 1990 benchmarks (comprehensive counts of employment) and updated seasonal adjustment factors which incorporate the experience through March 1991. As a result, unadjusted series beginning April 1989 and seasonally adjusted series beginning January 1986 are not comparable with those previously published.

The article beginning on page 6 discusses the effects of the revisions and provides new seasonal adjustment factors to be used to calculate establishment-based estimates for May-October 1991. 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 forthcoming supplement to *Employment and Earnings*.

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# Employment and Unemployment Developments, May 1991

Nonfarm payroll employment held steady in May, after declining markedly during the first 4 months of this year. Changes in the civilian worker unemployment rate in April and May were generally offsetting. The rate rose by three-tenths of a point in May to 6.9 percent, following a roughly similar decline in April.

## Unemployment

Both the number of unemployed persons and the civilian worker unemployment rate rose in May (after seasonal adjustment), following declines of similar magnitudes in April. The number of unemployed persons rose by 370,000 in May to a level of 8.6 million, and the civilian worker unemployment rate rose from 6.6 to 6.9 percent. Both measures, however, were about the same in May as they were in March. The May jobless rate was 1.4 percentage points higher than it was at the start of the current recession in July 1990. (See table A-33.)

Although unemployment rates for all major worker groups rose in May, the increases generally offset April declines. Thus, the rates for adult women (5.8 percent), adult men (6.5 percent), teenagers (19.1 percent), whites (6.1 percent), and Hispanics (9.7 percent) were about the same as they had been in March. The jobless rate for blacks, however, at 13.0 percent in May, has edged upward steadily during the last 3 months. Unemployment rates for all major worker groups are substantially higher than they were in mid-1990. (See tables A-33 and A-34.)

The number of workers unemployed for less than 5 weeks rose by 370,000 in May, following a large decline in April. Long-term unemployment held steady in both April and May. At 12.9 and 6.5 weeks, respectively, both the average and median durations of unemployment returned to their March levels, after rising in April. (See table A-40.)

The number of workers employed part time for economic reasons decreased by 230,000 in May. At 5.9 million, this group (often referred to as the partially unemployed) remains about 900,000 higher than it was at the start of the current recession. (See table A-35.)

## Civilian employment and the labor force

Movements in civilian employment and in the labor force were also offsetting in April and May. At 116.6

million, seasonally adjusted, total civilian employment fell by 810,000 in May, following a gain of 640,000 in April. The bulk of these changes have occurred among the self-employed. (See tables A-33 and A-35.)

Since July of last year, total employment has fallen by 1.3 million. The employment-population ratio—the proportion of the working-age population with jobs—dropped half a percentage point in May, more than offsetting an increase in April. At 61.5 percent, the ratio is nearly 1-1/2 percentage points lower than its peak in the middle of last year. (See table A-33.)

The civilian labor force declined by 440,000 in May to 125.2 million, following an increase of similar magnitude in April. The labor force participation rate—the proportion of working-age persons either employed or actively seeking employment—was 66.1 percent in May, down 0.4 percentage point from a year earlier. The largest decline in labor force participation over the year has occurred among teenagers, whose rate has dropped 2.4 percentage points, but there were also small declines among adult men and women. (See table A-33.)

## Industry payroll employment

Nonfarm payroll employment held steady in May at 108.8 million. This followed a drop of 180,000 (as revised) in April and declines averaging 240,000 in the first quarter. Small employment improvements in May were widespread, as the index of diffusion was up to 50.8 percent. This was the first time in a year that as many industries added jobs as lost them. (See tables B-4 and B-7.)

Employment in the goods-producing sector, which had experienced declines each month for over a year, was little changed in May, as manufacturing and construction firmed up. Manufacturing payrolls were buoyed for the second consecutive month by returns of laid-off auto workers. Other manufacturing industries, most notably industrial machinery and instruments, continued to lose jobs. Nevertheless, about as many manufacturing industries gained employees as lost them, the best showing since early 1989.

Construction employment was unchanged in May; the industry had lost about a tenth of its jobs during the prior year. Continued reductions in nonresidential general contractors were offset by the first gains in special trades in

over a year. In mining, 6,000 jobs were lost, half in oil and gas extraction.

In the service-producing sector, there was renewed job growth in May, after substantial losses in the prior 3 months. Improvement was largely concentrated in the services industry, which showed its first gain since January. Employment in business services was up 15,000, and health services continued its steady employment gains, adding 30,000 workers. A small employment increase also occurred in transportation. Real estate employment was unchanged in May, a positive sign in an industry that has had steady losses for a year. Retail trade employment was little changed in May following eight consecutive declines that averaged 50,000 a month. A similar occurrence was evident in wholesale trade.

### Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls increased by 0.3 hour in May to 34.3 hours, seasonally adjusted, following

decreases in the prior 2 months. Both the manufacturing workweek and factory overtime edged up a tenth of an hour, to 40.4 and 3.4 hours, respectively. (See table C-5.)

The index of aggregate weekly hours of private production or nonsupervisory workers increased by 0.9 percent to 121.1 (1982=100) in May, seasonally adjusted. The index for manufacturing increased by 0.4 percent to 101.1. Over the year, the index for manufacturing was down by 6.3 percent. (See table C-6.)

### Hourly and weekly earnings

Average hourly earnings of private production or nonsupervisory workers increased by 0.4 percent to \$10.32, seasonally adjusted, in May. Average weekly earnings increased by 1.3 percent to \$353.98. Prior to seasonal adjustment, average hourly earnings edged up by 1 cent and average weekly earnings were up by \$1.37. Over the year, average hourly earnings increased by 3.4 percent and average weekly earnings by 2.8 percent. (See tables C-1 and C-7.)

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
June	July 5	September	October 4
July	August 2	October	November 1
August	September 6	November	December 6

# BLS Establishment Estimates Revised to March 1990 Benchmarks

Anderia D. Thomas

With the release of data for May 1991, the Bureau of Labor Statistics introduced its annual revision of national estimates of employment, hours, and earnings from the monthly sample survey of nonfarm establishments. Each year, the sample estimates are adjusted to new benchmarks, which are comprehensive universe counts of employment based primarily on unemployment insurance reports filed by all employers with State employment security agencies.

All unadjusted data from April 1989 forward have been revised to incorporate the March 1990 benchmarks. As is the usual practice with the introduction of new benchmarks, the Bureau has also revised all seasonally adjusted series for the previous 5-year period and has introduced new seasonal adjustment factors to be used to adjust data in the months ahead. As part of an ongoing effort to increase data availability for the service-producing sector, also effective with the release of May data is the publication of employment, hours, and earnings data for 10 additional services-sector industries. The publication of these data does not affect totals and subtotals for industry divisions or groups. Some characteristics of these 10 industries are shown in text table A.

## Effect of the current benchmark adjustment

The March 1990 benchmark level for total nonfarm employment was 109,114,000. This was 229,000 or 0.2 percent below the corresponding sample-based estimate. (See table 1.) The magnitude of this year's benchmark revision is about the same as the average benchmark revisions over the past 10 years. (See table 2.) Benchmark revisions were downward in all major industry divisions except manufacturing, services, and government.

In the goods-producing sector there was an overall downward revision of only 13,000 or 0.1 percent. This was a result of offsetting errors among the sector's three major component divisions: Mining, construction, and manufacturing.

Mining and construction both were revised downward. Mining showed a substantial overestimation, as had been

the case for the last several years, while the revision in construction was relatively small. The tendency in recent years of overestimating in manufacturing was reversed in 1990, as there was an overall upward revision of 0.3 percent. This was the smallest benchmark revision in manufacturing since 1982. Within manufacturing, a downward revision of 6,000 in durable goods was more than offset by an upward revision of 57,000 in nondurable goods. Only 7 of the 20 2-digit manufacturing industries were revised downward.

The service-producing sector had a considerably greater revision than the goods-producing sector; as a whole, it was revised downward by 216,000, or 0.3 percent. The largest downward revision occurred in wholesale trade (159,000). This was unusually large compared to earlier years. Over four-fifths of the revision in wholesale trade was in durable goods (-137,000), and of this, the largest declines occurred in electrical goods (45,000) and machinery, equipment, and supplies (59,000).

Services and retail trade, the two largest major divisions, both had relatively small benchmark errors. Retail trade

**Text table A. Selected characteristics of 10 additional industries in the service-producing sector, March 1990**

Industry	1987 SIC code	Benchmark employment (thousands)	Number of reporting units
Passenger transportation arrangement . . . . .	472	187.9	858
Travel agencies . . . . .	4724	149.7	718
Computer programming services . . . . .	7371	151.1	301
Physical fitness facilities . . . . .	7991	129.2	220
Membership sports and recreation clubs . . . . .	7997	230.1	1,284
Offices and clinics of other health practitioners . . . . .	804	268.1	726
Intermediate care facilities . . . . .	8052	196.9	635
Child day-care services . . . . .	835	457.5	1,317
Engineering services . . . . .	8711	608.3	1,636
Architectural services . . . . .	8712	128.8	484

Anderia D. Thomas is an economist in the Division of Monthly Industry Employment Statistics, Bureau of Labor Statistics.



**Table 1. Differences between nonfarm employment benchmarks and estimates by industry, March 1990**

(Numbers in thousands)

Industry	Benchmark	Estimate	Difference	
			Amount	Percent
Total .....	109,114	109,343	-229	-0.2
Total private .....	90,546	90,807	-261	-.3
Goods-producing .....	24,717	24,730	-13	-.1
Mining <sup>1</sup> .....	692	715	-23	-3.3
Oil and gas extraction .....	382	396	-14	-3.7
Construction <sup>1</sup> .....	4,865	4,906	-41	-.8
General building contractors .....	1,262	1,268	-6	-.5
Manufacturing .....	19,160	19,109	51	.3
Durable goods .....	11,216	11,222	-6	-.1
Lumber and wood products .....	737	734	3	.4
Furniture and fixtures .....	518	518	0	0
Stone, clay, and glass products .....	555	552	3	.5
Primary metal industries .....	758	755	3	.4
Blast furnaces and basic steel products .....	275	270	5	1.8
Fabricated metal products .....	1,428	1,415	13	.9
Industrial machinery and equipment .....	2,118	2,124	-6	-.3
Electronic and other electrical equipment .....	1,693	1,712	-19	-1.1
Transportation equipment .....	2,018	2,021	-3	-.2
Motor vehicles and equipment .....	833	824	9	1.1
Instruments and related products .....	1,014	1,006	8	.8
Miscellaneous manufacturing .....	377	386	-9	-2.4
Nondurable goods .....	7,944	7,887	57	.7
Food and kindred products .....	1,608	1,590	18	1.1
Tobacco products .....	48	46	2	4.2
Textile mill products .....	698	707	-9	-1.3
Apparel and other textile products .....	1,054	1,038	16	1.5
Paper and allied products .....	695	694	1	.1
Printing and publishing .....	1,575	1,580	-5	-.3
Chemicals and allied products .....	1,088	1,081	7	.6
Petroleum and coal products .....	154	156	-2	-1.3
Rubber and miscellaneous plastics products .....	888	866	22	2.5
Leather and leather products .....	136	130	6	4.4
Service-producing .....	84,397	84,613	-216	-.3
Transportation and public utilities .....	5,735	5,750	-15	-.3
Transportation .....	3,474	3,544	-70	-2.0
Communications and public utilities .....	2,261	2,206	55	2.4
Wholesale trade .....	6,167	6,326	-159	-2.6
Durable goods .....	3,628	3,765	-137	-3.8
Nondurable goods .....	2,539	2,561	-22	-.9
Retail trade <sup>1</sup> .....	19,302	19,361	-59	-.3
General merchandise stores .....	2,439	2,404	35	1.4
Food stores .....	3,169	3,234	-65	-2.1
Auto dealers and service stations .....	2,062	2,098	-36	-1.8
Eating and drinking places .....	6,423	6,415	8	.1
Finance, insurance, and real estate .....	6,681	6,774	-93	-1.4
Finance .....	3,285	3,326	-41	-1.3
Insurance .....	2,108	2,133	-25	-1.2
Real estate .....	1,288	1,315	-27	-2.1
Services <sup>1</sup> .....	27,944	27,866	78	.3
Business services .....	5,126	4,960	166	3.2
Health services .....	7,716	7,930	-214	-2.8
Government .....	18,568	18,536	32	.2
Federal .....	3,082	3,082	0	0
State .....	4,386	4,364	22	.5
Local .....	11,100	11,090	10	.1

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

**Table 2. Percent differences between nonfarm employment benchmarks and estimates by industry division, March 1983-90**

Industry division	1983	1984	1985	1986	1987	1988	1989	1990
Total .....	( <sup>1</sup> )	-0.4	( <sup>1</sup> )	-0.5	( <sup>1</sup> )	-0.3	( <sup>1</sup> )	-0.2
Mining .....	-5.4	-1.6	-3.1	-1.2	-3.2	-1.7	-3.7	-3.3
Construction .....	.5	3.1	1.4	-6	-1.5	-2.2	-1.5	-8
Manufacturing .....	-1.2	-9	-5	-1.1	-5	-7	-1.0	.3
Transportation and public utilities .....	.2	.2	-1.0	-3	( <sup>1</sup> )	-7	-1.7	-3
Trade .....	.9	1.3	-3	-9	.9	-6	.6	-9
Finance, insurance, and real estate .....	( <sup>1</sup> )	.4	.5	-1	-5	-1	-1.1	-1.4
Services .....	-.1	.4	.1	.3	.1	.5	.8	.3
Government .....	-.7	.1	.8	-.4	-.3	-.1	.3	.2

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

was overestimated by 0.3 percent, while services was underestimated by the same percentage.

Government and transportation and public utilities each had small revisions within their normal historical range. Finance, insurance, and real estate showed a record large revision for the second year in a row; employment estimates were overstated by 1.4 percent.

Revised estimates were computed each month from April 1990 forward (the post-benchmark period), based on the new benchmark levels. Table 3 shows the extent of the revisions for 1990 and 1991 in both level and change, through a comparison of seasonally adjusted monthly data as previously published and as revised. These revisions reflect the recomputation of both the bias adjustment and the seasonal adjustment factors.

Monthly estimates of employment, hours, and earnings are published in considerable industry detail. Table 4 indicates the size of revisions for the 261 published 3-digit industries. Within this group, more than one-fourth had revisions under 1 percent, and two-thirds had revisions under 3 percent. As has generally been the case, the smallest industries in employment size tended to have the largest percentage revisions.

#### Effect of revisions on other series

Small revisions, due to the routine benchmarking process, can occur in the series on women workers and production and nonsupervisory workers. Although there are no benchmark employment levels for these series, they are revised by computing ratios of employment for the particular series to all employees prior to revision and then applying the ratios to the revised all-employee figures. Revisions at the basic cell level are added to produce 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, the broader industry groups of the hours and earnings series require a weighting mechanism to yield meaningful averages. The production or nonsupervisory worker employment esti-

mates 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. To influence the hours and earnings estimates of a broader group, employment revisions have to be relatively large and must affect industries which have substantially different hours or earnings averages than the other 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 both as a measure of the quality of the sample estimates and as a base for producing more accurate future monthly measures of current industry employment levels from the sample. The benchmark levels are derived primarily from summations of the employment figures on 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 where 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 transportation and services.

Normally, new benchmarks are determined for March of each year for the most detailed industrial classification levels and size groups at which estimates are made, amounting to 1,700 estimating cells. The time required to complete the benchmark process—from the full collection

**Table 3. Differences in seasonally adjusted levels and over-the-month changes, total nonfarm employment, January 1990-February 1991**  
(In thousands)

Year and month	Levels			Over-the-month changes		
	As previously published	As revised	Difference	As previously published	As revised	Difference
1990:						
January .....	109,654	109,416	-238	271	227	-44
February .....	109,958	109,792	-166	304	376	72
<b>March</b> .....	110,122	109,933	-189	164	141	-23
April .....	110,177	109,934	-243	55	1	-54
May .....	110,617	110,304	-313	440	370	-70
June .....	110,829	110,435	-394	212	131	-81
July .....	110,740	110,269	-471	-89	-166	-77
August .....	110,613	110,160	-453	-127	-109	18
September .....	110,612	110,113	-499	-1	-47	-46
October .....	110,432	109,982	-450	-180	-131	49
November .....	110,165	109,761	-404	-267	-221	46
December .....	110,004	109,621	-383	-161	-140	21
1991:						
January .....	109,813	109,418	-395	-191	-203	-12
<b>February</b> .....	109,527	109,160	-367	-286	-258	28

of the UI population data to publication of the revised industry estimates—is about 15 months. Revised employment estimates for the period between the prior and the current benchmark are derived by spreading the difference between the March benchmark levels and the March sample-based estimates over the prior 11 months, adding eleven-twelfths of the difference to the February estimates, ten-twelfths to the January estimates, and so forth. Revised estimates for the post-benchmark period are derived by extrapolating the new benchmark levels, using the existing monthly sample links and revised bias adjustment factors.

**Why estimates differ from benchmarks**

Differences between population benchmarks and sample-based 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 6 million employers in the population, the collection of such monthly figures would be prohibitively expensive and too time consuming to compile. The current sample of over 350,000 establishments provides preliminary estimates 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. 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 cover completely 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, the Bureau calculates monthly bias adjustment factors that are applied to current monthly sample estimates. To do so, each year, 3- to 5-year averages of the relative differences between the March benchmark levels and sample-based estimates are computed for most 3-digit industries. These are average annual bias adjustment factors and are updated to reflect current rates of employment change for the most recent quarter for the same industries. The updated factors are applied to the sample-based estimates for each estimating cell level in the industry. Finally, the estimates for the cells are aggregated to produce the monthly published estimates.

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

**Table 4. Distribution of published 3-digit SIC industries by size of industry and percent difference between employment benchmarks and estimates, March 1990**

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 .....	261	36	47	70	108
0-0.9 .....	74	6	14	19	35
1.0-2.9 .....	98	11	12	29	46
3.0-4.9 .....	43	11	11	6	15
5.0 and over ..	46	8	10	16	12

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, 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 nonfarm 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 nonfarm sector and 99 percent of those in the private nonfarm 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 and to derive benchmark figures for religious organizations, private schools, and hospitals. Benchmarks for State and local government hospitals and educational institutions are

<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 of these series and thus are not counted.

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.

### Seasonal adjustment procedure

BLS uses the X-11 ARIMA (Auto-Regressive Integrated Moving Average) seasonal adjustment procedure, developed by Statistics Canada,<sup>2</sup> to seasonally adjust establishment-based employment, hours, and earnings data. 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>

The Bureau computes and publishes projected seasonal adjustment factors twice a year for use in seasonally adjusting establishment-based employment, hours, and earnings data. Factors for the 6-month period May through October 1991 are published in this issue. Additionally, all published seasonally adjusted series have been revised for the most recent 5 years (1986-91) for the incorporation of new seasonal factors.

A moving-holiday extension of X-11 ARIMA is used to seasonally adjust the average weekly hours series and manufacturing overtime hours series, to account for the effects of the presence or absence of religious holidays in the April survey reference period and of Labor Day in the September reference period.<sup>4</sup>

All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors are directly applied to the unadjusted component levels. Seasonally adjusted totals for employment series are then obtained by aggregating seasonally adjusted components directly, while hours and earnings series represent weighted averages of the seasonally adjusted component series. The seasonal adjustment factors that will be used for the period May through October 1991 for all published series are shown in tables 7 through 12. 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 8, 10, and 12. They are used, however, in aggregating to broader seasonally adjusted levels.

<sup>2</sup> 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.

<sup>3</sup> The affected series are identified in tables 7 through 12.

<sup>4</sup> A more detailed description of this adjustment appears in the January 1990 issue of *Employment and Earnings*.

## Publication of revised data

Data for detailed industry categories of employment, hours, and earnings will be presented in a forthcoming supplement to *Employment, Hours, and Earnings, United States, 1909-90*, (BLS Bulletin 2370), issued in March 1991. The supplement 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 1989 through February 1991 and seasonally adjusted data for

January 1986 through February 1991.

Employment, hours, and earnings data for the 10 new services sector industries (text table A) will be published from the date of inception of each series.

Employment estimates are published monthly in *Employment and Earnings* for most of the significant nonfarm industries. Those industries for which monthly data are not published are either too small or are not represented by a sufficient sample. Table 6 contains historical benchmark figures for these industries.

**Table 5. Differences between hours and earnings benchmarks and estimates, selected industries, March 1990**

Industry	Average weekly hours			Average hourly earnings		
	Previous estimate	Revised estimate	Difference	Previous estimate	Revised estimate	Difference
Total private .....	34.3	34.3	0.0	\$ 9.93	\$ 9.92	-\$0.01
Mining .....	43.0	43.1	.1	13.57	13.61	.04
Construction .....	37.9	37.9	0	13.63	13.69	.06
Manufacturing .....	40.7	40.7	0	10.75	10.74	-.01
Durable goods .....	41.4	41.4	0	11.25	11.25	0
Lumber and wood products ...	40.2	40.2	0	9.05	9.04	-.01
Furniture and fixtures .....	39.0	39.0	0	8.43	8.43	0
Stone, clay, and glass products	41.5	41.5	0	11.03	10.98	-.05
Primary metal industries .....	42.7	42.7	0	12.71	12.73	.02
Fabricated metal products ...	41.5	41.5	0	10.75	10.76	.01
Industrial machinery and equipment .....	42.1	42.1	0	11.64	11.64	0
Electronic and other electrical equipment .....	41.0	41.0	0	10.17	10.17	0
Transportation equipment .....	42.3	42.3	0	14.02	14.02	0
Instruments and related products	41.2	41.2	0	11.19	11.18	-.01
Miscellaneous manufacturing ..	39.4	39.4	0	8.59	8.59	0
Nondurable goods .....	39.8	39.8	0	10.04	10.02	-.02
Food and kindred products ...	40.1	40.0	-.1	9.61	9.59	-.02
Tobacco products .....	38.8	38.8	0	16.46	16.25	-.21
Textile mill products .....	39.8	39.8	0	7.94	7.94	0
Apparel and other textile products .....	36.2	36.2	0	6.53	6.51	-.02
Paper and allied products .....	42.9	42.9	0	12.11	12.11	0
Printing and publishing .....	38.1	38.1	0	11.17	11.16	-.01
Chemicals and allied products .	42.5	42.5	0	13.34	13.35	.01
Petroleum and coal products ..	44.2	44.2	0	16.11	16.11	0
Rubber and miscellaneous plastics products .....	41.3	41.3	0	9.68	9.66	-.02
Leather and leather products ..	37.3	37.3	0	6.87	6.85	-.02
Transportation and public utilities ..	38.7	38.7	0	12.83	12.84	.01
Wholesale trade .....	37.9	37.9	0	10.66	10.65	-.01
Retail trade .....	28.5	28.4	-.1	6.74	6.72	-.02
Finance, insurance, and real estate .....	35.6	35.6	0	9.84	9.83	-.01
Services .....	32.4	32.4	0	9.76	9.73	-.03

**Table 6. Employment benchmarks for industries not published monthly, March 1983-90**

(In thousands)

Industry	1987 SIC Code	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total</b> .....		88,232	92,587	96,042	98,150	100,427	103,834	107,026	109,114
<b>Total private</b> .....		72,043	76,371	79,446	81,204	83,173	86,180	89,015	90,546
<b>Goods-producing</b> .....		22,370	24,017	24,469	24,192	24,037	24,565	24,815	24,717
<b>Mining</b> .....		945	952	933	832	696	711	678	692
Lead and zinc ores .....	103	4.0	4.0	3.3	2.9	2.4	2.0	2.3	2.6
Gold and silver ores .....	104	8.6	10.5	9.8	10.4	12.1	16.2	19.5	21.0
Other metal ores and mining services .....	106,8,9	14.0	13.3	11.4	9.1	8.3	8.6	10.2	10.1
Bituminous coal and lignite-surface .....	1221	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	59.7	57.3	56.7
Bituminous coal-underground .....	1222	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	81.2	78.4	79.8
Anthracite mining and coal mining services .....	123,4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.9	9.5	9.4
Natural gas liquids .....	132	6.7	6.6	6.6	6.1	5.7	5.0	4.7	4.5
Clay, ceramic, and refractory minerals .....	145	8.1	8.4	8.6	8.4	7.9	8.3	8.3	8.5
Dimension stone and other nonmetallic minerals .....	141,8,9	9.2	9.9	9.5	10.0	10.8	11.1	10.0	10.7
<b>Construction</b> .....		3,469	3,914	4,241	4,415	4,531	4,686	4,741	4,865
Bridge, tunnel, and elevated highway .....	1622	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	43.9	43.8	45.5
Water, sewer, and utility lines .....	1623	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	199.1	203.6	207.2
Heavy construction, nec .....	1629	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	235.2	246.1	250.2
Masonry and other stonework .....	1741	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	155.5	151.7	155.2
Plastering, drywall, and insulation .....	1742	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	250.3	257.6	263.7
Terrazzo, tile, marble, and mosaic work .....	1743	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	34.8	36.2	39.3
Carpentry work .....	1751	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	132.6	149.5	153.8
Floor laying and floor work, nec .....	1752	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	45.9	47.8	49.3
Concrete work .....	177	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	177.6	190.9	197.1
Water well drilling .....	178	14.6	15.7	16.1	16.2	16.8	17.6	18.8	19.0
Miscellaneous special trade contractors .....	179	314.2	353.1	393.0	416.4	429.6	462.5	472.2	502.5
Structural steel erection .....	1791	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	73.3	75.0	74.2
Glass and glazing work .....	1793	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	40.0	39.4	40.0
Excavation work .....	1794	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	109.7	104.9	108.6
Wrecking, demolition, and other special trade contractors .....	1795,6,9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	239.5	252.9	279.7
<b>Manufacturing</b> .....		17,956	19,151	19,295	18,945	18,810	19,168	19,396	19,160
<b>Durable goods</b> .....		10,394	11,321	11,535	11,251	11,076	11,270	11,448	11,216
Lumber and wood products:									
Special product sawmills, nec .....	2429	3.6	4.1	3.1	2.7	3.7	3.4	3.5	3.1
Structural wood members, nec .....	2439	14.0	19.0	19.1	22.6	26.3	26.5	27.8	27.5
Nailed wood boxes and shooks .....	2441	5.3	5.6	5.5	5.4	5.8	5.5	4.9	4.4
Wood pallets and skids .....	2448	21.6	25.8	26.9	26.3	27.5	29.9	31.8	32.4
Wood containers, nec .....	2449	8.8	8.7	8.3	8.2	8.0	7.5	7.9	8.2
Prefabricated wood buildings .....	2452	15.8	19.0	18.6	19.7	22.0	22.5	21.8	18.6
Wood preserving .....	2491	11.8	12.3	13.0	12.5	12.6	12.7	12.8	12.6
Reconstituted wood products .....	2493	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.8	17.1	18.1
Wood products, nec .....	2499	55.3	58.1	55.5	56.2	58.0	62.3	59.1	56.5
Furniture and fixtures:									
Wood television and radio cabinets, and household furniture, nec .....	2517,9	11.1	13.4	13.9	14.0	13.8	12.7	14.3	13.6
Wood office furniture .....	2521	23.9	28.4	32.0	31.4	32.2	35.4	35.5	35.1
Office furniture, except wood .....	2522	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	35.7	36.6	34.9
Wood partitions and fixtures .....	2541	28.3	33.9	36.7	38.8	39.8	43.3	43.2	42.6
Partitions and fixtures, except wood .....	2542	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	34.1	35.5	35.6
Drapery hardware and blinds and shades .....	2591	16.9	20.4	20.5	22.3	21.7	22.1	22.0	22.4
Furniture and fixtures, nec .....	2599	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.7	14.0	15.1
Stone, clay, and glass products:									
Brick and structural clay tile .....	3251	13.9	16.7	16.5	17.1	17.3	17.3	16.7	15.8
Clay refractories .....	3255	7.0	8.1	7.4	7.0	6.4	7.5	7.7	7.0
Ceramic tile and structural clay products, nec .....	3253,9	11.3	12.4	12.4	12.3	13.0	13.4	13.5	13.3
Vitreous plumbing fixtures .....	3261	8.8	10.0	9.5	10.3	9.8	9.6	9.5	9.1
Vitreous and semivitreous table and kitchenware .....	3262,3	7.7	7.4	6.7	7.1	7.1	5.8	5.8	5.6
Porcelain electrical supplies .....	3264	11.1	11.4	12.2	10.7	10.7	11.3	11.7	11.3
Pottery products, nec .....	3269	10.5	11.8	10.7	10.3	10.7	12.1	13.2	13.5
Lime .....	3274	5.3	5.7	5.4	5.3	5.5	5.4	5.2	5.4
Gypsum products .....	3275	11.2	13.5	14.3	14.2	13.8	14.4	14.2	13.5
Cut stone and stone products .....	328	10.7	11.2	12.0	12.4	12.6	13.2	13.9	15.1
Minerals, ground or treated .....	3295	12.8	13.4	13.5	12.5	12.0	12.2	12.8	13.0
Nonclay refractories .....	3297	7.3	8.0	8.2	8.1	7.1	7.8	8.4	8.1
Nonmetallic mineral products, nec .....	3299	6.3	7.2	7.1	7.1	7.2	7.8	8.1	9.0

See footnotes at end of table.

**Table 6. Employment benchmarks for industries not published monthly, March 1983-90—Continued**

(In thousands)

Industry	1987 SIC Code	1983	1984	1985	1986	1987	1988	1989	1990
<b>Durable goods-Continued</b>									
Primary metal industries:									
Electrometallurgical products .....	3313	8.2	10.2	9.6	9.0	7.6	7.9	6.1	6.1
Steel wire and related products .....	3315	16.7	18.6	18.6	18.7	19.0	19.2	19.5	18.5
Cold finishing of steel shapes .....	3316	13.5	15.4	15.8	15.6	15.6	16.6	19.0	17.6
Steel investment foundries .....	3324	10.9	11.6	13.3	13.1	13.6	14.6	15.1	15.8
Primary copper .....	3331	10.6	9.2	7.0	5.4	5.5	5.3	5.5	5.5
Primary nonferrous metals, nec .....	3339	13.8	15.0	15.3	13.1	12.3	12.5	14.3	14.5
Secondary nonferrous metals .....	334	18.0	19.6	19.7	18.1	16.9	17.9	18.5	18.9
Aluminum extruded products .....	3354	28.2	30.8	33.0	32.6	33.6	33.4	31.7	30.1
Aluminum and nonferrous rolling and drawing, nec .....	3355,6	19.7	20.4	19.8	19.5	18.6	18.0	18.5	18.2
Aluminum die-castings .....	3363	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	23.9	29.3	27.8
Nonferrous die-castings, except aluminum .....	3364	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.6	13.0	13.0
Copper foundries .....	3366	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	11.0	11.4	10.8
Nonferrous foundries, nec .....	3369	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.7	9.2	9.0
Miscellaneous primary metal products .....	339	21.6	24.5	25.4	24.9	24.9	26.7	27.8	27.3
Metal heat treating .....	3398	11.3	12.7	14.1	13.8	14.0	14.8	15.8	15.4
Primary metal products, nec .....	3399	10.3	11.8	11.3	11.1	10.9	11.9	12.0	11.9
Fabricated metal products:									
Metal barrels, drums, and pails .....	3412	11.9	11.4	11.8	11.1	10.5	10.4	10.3	9.7
Cutlery .....	3421	13.2	13.0	12.7	12.1	11.1	11.0	11.4	12.1
Metal sanitary ware .....	3431	8.7	9.8	10.6	11.2	10.8	13.2	13.6	13.5
Prefabricated metal buildings .....	3448	20.6	22.7	24.9	24.8	23.8	24.9	25.8	25.5
Miscellaneous metal work .....	3449	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.4	15.5	14.8
Nonferrous forgings, crowns, and closures .....	3463,6	10.6	10.5	10.9	11.1	10.9	12.7	12.7	12.1
Small arms, small arms ammunition, and other ordnance and accessories, nec .....	3482,4,9	35.8	34.6	36.6	32.7	33.0	33.7	31.7	30.4
Industrial valves .....	3491	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	25.4	27.0	27.9
Fluid power valves and hose fittings .....	3492	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	26.5	29.4	28.6
Steel springs, except wire .....	3493	4.9	5.6	6.6	5.9	5.9	6.3	6.2	6.0
Wire springs .....	3495	11.9	13.7	14.7	13.5	13.2	13.5	13.7	13.1
Fabricated pipe and fittings .....	3498	21.7	22.9	22.5	21.2	19.0	23.5	24.3	24.2
Metal foil and leaf, and fabricated metal products, nec .....	3497,9	39.5	44.6	45.5	45.2	43.6	48.9	55.0	55.7
Industrial machinery and equipment:									
Lawn and garden equipment .....	3524	21.7	24.0	25.1	25.9	27.3	30.9	28.8	30.7
Elevators and moving stairways .....	3534	11.6	11.7	11.5	11.1	11.9	12.8	11.8	11.5
Hoists, cranes, and monorails .....	3536	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.5	8.2	8.4
Industrial patterns .....	3543	8.0	8.3	8.0	9.1	8.6	9.8	9.0	9.0
Welding apparatus .....	3548	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.1	19.2	19.0
Rolling mill and metalworking machinery, nec .....	3547,9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.9	12.5	12.7
Woodworking machinery .....	3553	8.8	9.8	10.2	9.2	10.3	11.1	10.6	9.8
Paper industries machinery .....	3554	15.4	15.7	16.9	16.5	15.9	17.6	18.5	19.7
Special industry machinery, nec .....	3559	48.5	54.2	60.5	56.6	53.8	60.4	64.2	62.5
Packaging machinery .....	3565	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.7	21.3	21.8
Industrial furnaces and ovens .....	3567	16.1	17.4	18.4	17.9	17.6	17.1	18.4	18.6
General industrial machinery, nec .....	3569	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	36.8	40.1	40.0
Computer storage devices .....	3572	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	29.6	36.7	35.7
Computer peripheral equipment, nec .....	3577	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	59.6	62.0	58.5
Automatic vending machines .....	3581	8.7	9.1	9.0	8.5	7.8	8.8	8.0	7.5
Commercial laundry equipment .....	3582	4.4	4.8	4.8	5.6	6.0	6.2	5.7	5.8
Measuring and dispensing pumps, and service industry machinery, nec .....	3586,9	35.0	35.1	36.3	36.1	36.9	40.8	43.2	43.2
Fluid power cylinders and actuators .....	3593	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.4	19.3	19.4
Fluid power pumps and motors .....	3594	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	30.2	31.3	29.5
Electronic and other electrical equipment:									
Carbon and graphite products .....	3624	10.6	11.3	11.5	10.2	9.9	10.2	11.3	11.0
Electrical industrial apparatus, nec .....	3629	10.5	11.5	11.1	11.1	10.5	9.9	9.1	9.1
Household cooking equipment .....	3631	23.9	28.7	22.9	21.6	21.9	21.6	21.6	20.6
Household vacuum cleaners and appliances, nec .....	3635,9	25.0	27.7	27.5	26.3	26.7	25.5	25.7	25.0
Commercial lighting fixtures .....	3646	15.4	17.4	19.2	19.9	19.6	20.6	21.7	23.0
Vehicular lighting equipment .....	3647	13.4	15.6	15.6	17.1	18.1	17.9	19.8	18.5
Lighting equipment, nec .....	3648	9.1	9.4	8.4	9.3	9.9	10.4	11.3	10.6
Prerecorded records and tapes .....	3652	19.2	18.5	17.7	17.4	20.6	21.6	21.6	21.0
Radio and television communications equipment .....	3663	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	114.7	107.3	113.0

See footnotes at end of table.

**Table 6. Employment benchmarks for industries not published monthly, March 1983-90—Continued**

(In thousands)

Industry	1987 SIC Code	1983	1984	1985	1986	1987	1988	1989	1990
<b>Durable goods—Continued</b>									
Electronic and other electrical equipment—Continued									
Communications equipment, nec .....	3669	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.6	23.1	24.3
Printed circuit boards .....	3672	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	80.0	103.2	102.2
Electronic capacitors .....	3675	25.2	33.4	30.1	25.2	24.6	24.2	26.4	22.1
Electronic resistors .....	3676	11.5	12.2	12.3	11.8	11.2	13.3	12.6	12.6
Electronic coils and transformers .....	3677	21.6	26.5	24.1	21.4	21.8	23.3	21.7	19.2
Electronic connectors .....	3678	8.9	10.8	12.0	11.9	12.9	14.5	15.0	15.6
Primary batteries, dry and wet .....	3692	13.7	13.8	14.3	13.4	12.3	13.4	11.2	10.7
Magnetic and optical recording media, and electrical equipment and supplies, nec .....	3695,9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	59.0	58.7	56.6
Transportation equipment:									
Motor homes .....	3716	9.8	15.0	15.7	16.3	17.6	19.3	22.7	18.1
Motorcycles, bicycles, and parts .....	375	14.5	16.4	13.5	12.4	11.9	12.5	13.8	13.2
Space propulsion units and parts, and space vehicle equipment, nec .....	3764,9	30.1	33.9	37.4	47.8	49.0	57.1	58.2	54.0
Tanks and tank components .....	3795	18.5	18.4	20.0	20.0	19.5	15.6	16.2	15.1
Transportation equipment, nec .....	3799	8.8	10.8	12.2	11.2	13.0	14.2	14.6	14.0
Instruments and related products:									
Laboratory apparatus and furniture .....	3821	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.2	8.0	8.9
Fluid meters and counting devices .....	3824	14.3	14.5	15.0	14.2	11.7	11.7	11.4	12.2
Analytical instruments .....	3826	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	25.9	29.6	30.6
Optical instruments and lenses .....	3827	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.9	19.5	20.3
Measuring and controlling devices, nec .....	3829	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	45.8	46.1	45.4
Dental equipment and supplies .....	3843	14.2	14.0	14.1	14.3	13.6	14.0	12.9	13.0
X-ray apparatus and tubes .....	3844	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.3	10.9	10.4
Electromedical equipment .....	3845	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21.5	27.3	28.8
Miscellaneous manufacturing industries:									
Silverware and plated ware .....	3914	9.8	10.1	9.0	8.2	7.4	7.7	7.5	6.8
Jewelers' materials and lapidary work .....	3915	7.6	8.3	8.4	8.2	8.1	7.8	7.3	7.1
Pens and mechanical pencils .....	3951	9.1	9.3	9.0	8.9	9.0	8.8	9.7	9.2
Lead pencils and art goods .....	3952	7.4	7.0	7.2	7.0	6.7	7.2	7.5	7.3
Marking devices, carbon paper, and inked ribbons .....	3953,5	15.1	15.8	16.2	17.0	16.8	18.2	18.6	17.8
Fasteners, buttons, needles, and pins .....	3965	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.9	12.6	12.2
Brooms and brushes .....	3991	13.6	14.2	13.5	13.2	12.4	13.5	13.3	13.6
Burial caskets .....	3995	10.2	9.9	9.8	9.5	9.6	9.3	9.3	9.0
Hard surface floor coverings and manufacturing industries, nec .....	3996,9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	61.2	61.5	59.7
<b>Nondurable goods</b> .....		<b>7,562</b>	<b>7,830</b>	<b>7,760</b>	<b>7,694</b>	<b>7,734</b>	<b>7,898</b>	<b>7,948</b>	<b>7,944</b>
Food and kindred products:									
Creamery butter .....	2021	2.3	2.0	2.0	2.0	2.4	2.3	2.0	2.1
Dry, condensed, and evaporated products .....	2023	15.4	16.0	15.0	15.1	15.6	15.4	15.8	15.8
Ice cream and frozen desserts .....	2024	17.8	18.2	18.6	20.5	21.1	21.3	21.4	21.1
Dehydrated fruits, vegetables, and soups .....	2034	15.5	15.0	15.4	15.6	15.7	15.3	15.1	17.9
Pickles, sauces, and salad dressings .....	2035	18.8	18.7	18.7	19.4	19.7	20.8	20.8	19.4
Frozen specialties, nec .....	2038	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	41.0	41.6	42.6
Cereal breakfast foods .....	2043	17.7	17.8	17.9	17.8	19.0	19.2	20.2	19.9
Rice milling .....	2044	5.8	5.5	5.1	4.9	5.4	5.4	5.4	5.6
Prepared flour mixes and doughs .....	2045	7.3	6.9	7.1	7.7	9.1	9.5	9.0	9.5
Wet corn milling .....	2046	10.3	10.3	10.1	9.0	8.7	9.1	9.2	9.1
Dog and cat food .....	2047	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.6	15.2	16.0
Chocolate and cocoa products and chewing gum .....	2066,7	19.2	20.5	19.5	19.1	19.5	21.3	21.8	20.4
Salted and roasted nuts and seeds .....	2068	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.3	6.3	7.1
Cottonseed, soybean, and vegetable oil mills .....	2074,5,6	19.0	15.4	15.9	15.6	14.5	13.0	12.7	13.0
Animal and marine fats and oils .....	2077	9.3	9.2	8.7	8.2	8.1	8.0	8.1	8.2
Edible fats and oils, nec .....	2079	11.9	11.7	11.3	11.0	11.1	11.3	10.3	10.1
Wines, brandy, and brandy spirits .....	2084	14.9	13.8	14.4	15.0	15.0	15.7	16.2	16.0
Distilled and blended liquors .....	2085	14.6	14.3	13.4	12.3	11.8	11.0	9.8	8.5
Malt and flavoring extracts and syrups, nec .....	2083,7	15.5	16.2	16.6	16.1	16.1	17.1	17.6	18.0
Canned and cured fish and seafoods .....	2091	14.5	13.4	9.4	10.2	9.9	11.4	9.9	9.4
Fresh or frozen packaged fish .....	2092	34.6	33.8	33.1	35.6	35.8	38.8	41.7	42.7
Roasted coffee .....	2095	12.4	12.1	12.3	12.3	12.4	12.4	11.7	11.9
Potato chips and similar snacks .....	2096	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	32.1	33.4	34.5
Manufactured ice .....	2097	4.8	5.0	5.0	5.7	5.2	5.1	5.1	5.2
Macaroni and spaghetti .....	2098	8.2	8.0	8.2	8.3	8.7	8.8	8.0	8.7
Food preparations, nec .....	2099	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	53.3	56.8	62.0
Tobacco products:									
Cigars .....	212	5.5	5.7	5.4	4.6	3.6	3.7	3.3	2.9
Other tobacco products .....	213,4	13.6	11.4	12.9	12.0	10.1	10.1	10.0	10.3

See footnotes at end of table.



Table 6. Employment benchmarks for industries not published monthly, March 1983-90—Continued

(In thousands)

Industry	1987 SIC Code	1983	1984	1985	1986	1987	1988	1989	1990
<b>Nondurable goods-Continued</b>									
Textile mill products:									
Lace and warp knit fabric mills, and knitting mills, nec .....	2258,9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21.9	19.9	20.5
Finishing plants, nec .....	2269	14.1	18.7	14.2	14.2	13.7	13.9	12.9	13.0
Thread mills .....	2284	9.2	9.2	7.5	6.8	7.7	7.5	6.9	7.3
Coated fabrics, not rubberized .....	2295	9.7	10.8	11.0	10.1	9.4	10.4	9.4	9.7
Tire cord and fabrics .....	2296	7.1	6.9	6.5	5.6	5.5	5.4	6.3	6.3
Cordage and twine .....	2298	8.1	8.2	8.1	7.5	7.6	8.4	7.8	7.4
Nonwoven fabrics and other textile goods, nec .....	2297,9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	28.6	29.0	28.6
Apparel and other textile products:									
Men's and boys' underwear and nightwear .....	2322	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	26.5	21.9	25.0
Men's and boys' neckwear .....	2323	6.8	7.2	6.9	7.3	7.8	8.2	7.8	7.0
Men's and boys' clothing, nec .....	2329	48.7	53.7	52.3	49.6	48.3	53.4	54.0	54.9
Hats, caps, and millinery .....	235	14.7	16.2	16.4	15.6	14.5	14.7	15.1	16.3
Girls' and children's outerwear, nec .....	2369	33.0	36.2	35.0	34.4	33.9	36.1	35.6	34.1
Fur goods .....	237	3.2	2.3	2.9	2.7	2.7	2.4	2.3	1.7
Fabric dress and work gloves .....	2381	8.7	8.7	9.4	8.6	7.2	7.3	6.7	6.9
Robes and dressing gowns .....	2384	8.5	8.4	8.0	7.7	7.2	7.2	7.5	6.0
Waterproof outerwear .....	2385	9.5	8.0	8.0	6.8	6.2	6.2	6.5	5.7
Leather and sheep-lined clothing .....	2386	3.8	3.8	3.1	2.3	2.8	3.4	3.6	3.8
Apparel belts .....	2387	10.3	10.7	9.5	8.8	10.6	10.4	10.7	10.0
Apparel and accessories, nec .....	2389	5.8	6.3	6.7	6.7	7.4	7.7	9.6	12.4
Textile bags .....	2393	7.9	8.1	8.0	7.6	7.7	9.0	8.9	9.2
Canvas and related products .....	2394	15.0	16.5	16.9	16.4	17.3	18.2	17.7	17.8
Pleating and stitching .....	2395	14.4	14.8	13.5	14.3	14.9	15.0	15.2	14.6
Other fabricated textile products .....	2397,9	26.8	29.3	30.0	31.3	33.5	34.8	35.7	36.7
Paper and allied products:									
Pulp mills .....	261	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.5	16.4	13.8
Setup paperboard boxes .....	2652	10.3	10.5	10.4	10.1	9.2	9.1	8.7	8.2
Fiber cans, drums, and similar products .....	2655	17.2	17.3	16.6	15.8	15.4	16.3	16.7	16.7
Paper, coated and laminated, packaging .....	2671	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.5	19.9	21.4
Bags: uncoated paper and multiwall .....	2674	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.2	21.3	21.0
Die-cut paper and board .....	2675	15.5	17.9	18.4	15.7	16.1	17.6	18.2	17.7
Sanitary paper products .....	2676	27.7	28.5	30.1	31.4	30.6	30.8	31.6	32.2
Stationery and converted paper products, nec .....	2678,9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	48.9	45.1	43.8
Printing and publishing:									
Commercial printing, gravure .....	2754	12.8	13.5	15.0	14.9	15.9	13.9	15.5	17.5
Greeting cards .....	277	23.4	23.3	24.0	22.3	23.4	23.4	23.4	24.1
Blankbooks and looseleaf binders .....	2782	39.4	40.8	43.1	44.3	44.7	46.9	47.0	44.6
Bookbinding and related work .....	2789	23.9	26.4	27.9	27.4	27.4	28.1	27.8	27.7
Typesetting .....	2791	28.2	30.6	32.8	33.1	33.8	35.6	34.5	32.7
Platemaking services .....	2796	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	25.8	29.8	31.4
Chemicals and allied products:									
Alkalies and chlorine .....	2812	17.6	15.6	15.3	12.4	10.8	10.4	10.7	12.3
Industrial gases .....	2813	23.6	23.1	23.2	23.5	21.3	21.2	22.0	23.7
Inorganic pigments .....	2816	9.7	9.8	10.3	10.6	10.6	10.6	10.3	10.4
Synthetic rubber .....	2822	13.4	13.2	13.4	13.3	13.3	15.3	15.3	15.4
Cellulosic synthetic fibers .....	2823	15.7	19.1	18.0	16.3	13.6	13.0	13.8	14.4
Medicinals and botanicals .....	2833	18.3	18.4	17.8	18.2	17.2	18.4	17.7	17.9
Diagnostic and other biological products .....	2835,6	23.3	22.3	22.3	23.2	26.2	20.6	21.1	21.1
Gum and wood chemicals .....	2861	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.0	4.9	4.3
Nitrogenous fertilizers .....	2873	13.0	12.8	12.7	11.7	10.5	9.7	10.1	10.1
Phosphatic fertilizers .....	2874	13.6	13.2	13.6	11.9	10.7	10.9	11.5	10.8
Fertilizers, mixing only .....	2875	13.1	13.0	12.9	11.8	11.5	11.0	10.3	10.4
Agricultural chemicals, nec .....	2879	23.1	22.7	22.5	21.2	19.4	22.0	21.3	25.4
Adhesives and sealants .....	2891	19.7	21.3	22.2	22.3	22.2	24.2	23.9	24.7
Explosives .....	2892	15.6	15.2	16.3	16.9	16.7	15.9	15.2	15.0
Printing ink .....	2893	11.6	11.9	12.0	11.7	13.1	13.8	14.9	15.4
Other chemical preparations .....	2895,9	41.5	41.5	44.0	42.2	42.0	46.3	45.6	44.3
Petroleum and coal products:									
Asphalt paving mixtures and blocks .....	2951	9.2	9.4	9.9	10.4	10.6	10.7	10.3	11.0
Asphalt felts and coatings .....	2952	14.1	15.3	14.1	14.0	13.7	14.0	13.7	13.4
Miscellaneous petroleum and coal products .....	299	11.1	11.1	11.4	11.6	12.0	12.2	11.7	12.6
Rubber and miscellaneous plastics products:									
Gaskets, packing and sealing devices .....	3053	23.5	26.7	27.7	28.6	28.1	31.6	33.9	34.9
Mechanical rubber goods .....	3061	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	50.1	50.6	47.0
Fabricated rubber products, nec .....	3069	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	54.2	61.2	57.8
Unsupported plastics film and sheet .....	3081	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	52.4	53.4	54.7

See footnotes at end of table.

**Table 6. Employment benchmarks for industries not published monthly, March 1983-90—Continued**

(In thousands)

Industry	1987 SIC Code	1983	1984	1985	1986	1987	1988	1989	1990
<b>Nondurable goods-Continued</b>									
Rubber and miscellaneous plastics products-Continued									
Unsupported plastics profile shapes .....	3082	( )	( )	( )	( )	( )	28.5	29.5	28.0
Laminated plastics plate and sheet .....	3083	( )	( )	( )	( )	( )	20.0	21.5	20.2
Plastics pipe .....	3084	( )	( )	( )	( )	( )	14.7	15.5	16.2
Plastics bottles .....	3085	( )	( )	( )	( )	( )	28.4	29.9	30.5
Plastics foam products .....	3086	( )	( )	( )	( )	( )	50.2	51.4	52.1
Custom compound purchased resins .....	3087	( )	( )	( )	( )	( )	27.1	25.1	25.4
Plastics plumbing fixtures and plastic products, nec .....	3088,9	( )	( )	( )	( )	( )	376.4	398.6	401.1
Leather and leather products:									
Footwear cut stock .....	313	9.4	9.4	6.9	6.3	5.8	6.6	6.4	6.3
House slippers .....	3142	7.6	7.0	5.9	5.1	3.9	4.6	4.8	4.2
Footwear, except rubber, nec .....	3149	20.3	18.7	15.1	14.0	12.1	12.8	11.1	10.3
Leather gloves and mittens .....	315	3.4	3.4	3.3	3.2	3.1	2.9	2.7	2.5
Women's handbags and purses .....	3171	14.6	14.2	11.7	10.4	8.5	8.4	6.9	6.0
Personal leather goods, nec .....	3172	10.8	11.0	9.6	9.2	8.3	9.0	8.8	9.1
Leather goods, nec .....	319	8.3	8.2	8.1	7.9	8.4	8.9	9.0	10.2
<b>Service-producing .....</b>		<b>65,862</b>	<b>68,570</b>	<b>71,573</b>	<b>73,958</b>	<b>76,390</b>	<b>79,269</b>	<b>82,211</b>	<b>84,397</b>
<b>Transportation and public utilities .....</b>		<b>4,923</b>	<b>5,063</b>	<b>5,155</b>	<b>5,200</b>	<b>5,274</b>	<b>5,439</b>	<b>5,549</b>	<b>5,735</b>
Transportation:									
Other railroads and switching and terminal services .....	4013	27.9	27.4	36.3	36.1	37.1	38.4	38.7	38.8
Bus charter service, and bus terminal and service facilities .....	414,7	18.6	20.7	22.0	21.0	21.4	25.2	27.0	27.8
General warehousing and storage .....	4225	( )	( )	( )	( )	( )	61.7	63.5	64.8
Warehousing and storage, nec .....	4221,2,6	( )	( )	( )	( )	( )	47.4	48.5	49.4
Trucking terminal facilities .....	423	5.8	5.9	5.6	5.2	5.2	4.5	3.7	4.0
Deep sea and Great Lakes freight transportation .....	441,2,3	( )	( )	( )	( )	( )	32.1	30.9	31.8
Water transportation of passengers .....	448	( )	( )	( )	( )	( )	12.3	12.3	14.6
Marine cargo handling .....	4491	( )	( )	( )	( )	( )	55.8	58.7	54.4
Marinas .....	4493	( )	( )	( )	( )	( )	16.0	16.6	17.4
Towing, tugboat, and water transportation services, nec .....	4492,9	( )	( )	( )	( )	( )	35.7	33.4	36.2
Air transportation, scheduled .....	4512	( )	( )	( )	( )	( )	456.7	458.2	506.9
Air courier services .....	4513	( )	( )	( )	( )	( )	68.4	82.8	91.9
Air transportation, nonscheduled .....	452	( )	( )	( )	( )	( )	18.2	23.1	26.0
Tour operators .....	4725	( )	( )	( )	( )	( )	20.8	22.4	23.2
Passenger transport arrangement, nec .....	4729	( )	( )	( )	( )	( )	16.9	15.6	15.0
Rental of railroad cars .....	474	7.4	6.9	7.0	6.4	6.6	6.1	6.0	5.7
Miscellaneous transportation services .....	478	11.7	13.0	15.0	13.6	15.2	16.6	18.4	20.4
Communications and public utilities:									
Radiotelephone communications .....	4812	( )	( )	( )	( )	( )	21.3	27.6	36.9
Telephone communications, except radio .....	4813	1,000.0	938.9	902.0	880.0	871.8	875.0	873.6	872.6
Telegraph and other communications .....	482	( )	( )	( )	( )	( )	17.5	14.1	12.0
Communications services, nec .....	489	( )	( )	( )	( )	( )	25.5	23.8	25.3
Water supply .....	494	20.8	21.1	21.8	22.3	22.8	23.9	24.7	25.2
Steam and air-conditioning supply, and irrigation systems .....	496,7	2.7	3.3	3.4	3.4	3.2	3.9	3.8	4.6
<b>Wholesale trade .....</b>		<b>5,173</b>	<b>5,465</b>	<b>5,673</b>	<b>5,715</b>	<b>5,784</b>	<b>5,948</b>	<b>6,195</b>	<b>6,167</b>
Tires and tubes .....	5014	31.4	32.5	31.1	30.1	29.3	29.5	30.2	30.6
Motor vehicle parts, used .....	5015	( )	( )	( )	( )	( )	36.3	37.8	39.6
Brick, stone, and related materials .....	5032	( )	( )	( )	( )	( )	33.0	36.2	39.0
Roofing, siding, and insulation .....	5033	( )	( )	( )	( )	( )	25.0	26.6	27.4
Photographic equipment and supplies .....	5043	( )	( )	( )	( )	( )	26.6	31.6	31.3
Office equipment .....	5044	( )	( )	( )	( )	( )	193.7	199.7	201.1
Commercial equipment, nec .....	5046	( )	( )	( )	( )	( )	49.1	50.6	52.0
Medical and hospital equipment .....	5047	( )	( )	( )	( )	( )	112.0	123.7	129.6
Ophthalmic goods .....	5048	( )	( )	( )	( )	( )	20.9	21.8	20.5
Professional equipment, nec .....	5049	( )	( )	( )	( )	( )	39.2	39.9	35.9
Warm air heating and air-conditioning .....	5075	( )	( )	( )	( )	( )	50.8	52.6	52.6
Refrigeration equipment and supplies .....	5078	( )	( )	( )	( )	( )	14.6	14.9	13.5
Service establishment equipment .....	5087	63.4	67.1	71.0	73.2	76.0	82.1	85.9	82.1
Transportation equipment and supplies .....	5088	30.1	31.2	32.6	32.7	33.5	38.4	39.1	39.2
Sporting and recreational goods .....	5091	( )	( )	( )	( )	( )	40.2	43.4	42.8
Toys and hobby goods and supplies .....	5092	( )	( )	( )	( )	( )	21.9	22.9	24.2
Jewelry and precious stones .....	5094	35.9	38.0	40.4	42.9	43.8	46.0	48.0	48.8
Wholesale trade durable goods, nec .....	5099	59.0	60.5	62.0	60.0	63.9	71.1	76.9	67.9

See footnotes at end of table.

**Table 6. Employment benchmarks for industries not published monthly, March 1983-90—Continued**

(In thousands)

Industry	1987 SIC Code	1983	1984	1985	1986	1987	1988	1989	1990
<b>Wholesale trade-Continued</b>									
Printing and writing paper .....	5111	( )	( )	( )	( )	( )	24.6	24.9	25.7
Stationery and office supplies .....	5112	( )	( )	( )	( )	( )	107.4	114.9	127.8
Industry and personal service paper .....	5113	( )	( )	( )	( )	( )	83.9	87.1	87.3
Piece goods and notions .....	5131	( )	( )	( )	( )	( )	52.6	54.7	52.1
Men's and boys' clothing .....	5136	( )	( )	( )	( )	( )	40.0	43.8	44.0
Women's and children's clothing .....	5137	( )	( )	( )	( )	( )	78.2	83.9	85.9
Footwear .....	5139	( )	( )	( )	( )	( )	19.2	19.8	21.4
Packaged frozen foods .....	5142	24.3	25.8	27.0	27.6	28.6	30.3	32.3	33.9
Dairy products, except dried or canned .....	5143	40.7	41.4	43.7	44.1	47.3	47.0	47.6	49.6
Poultry and poultry products .....	5144	27.8	24.8	24.0	23.3	23.6	22.4	21.3	20.4
Confectionery .....	5145	37.0	40.1	40.5	41.8	44.1	45.7	46.6	48.2
Fish and seafoods .....	5146	24.3	25.7	27.1	27.9	29.1	30.8	31.7	31.4
Groceries and related products, nec .....	5149	153.7	163.8	174.1	184.4	193.0	206.3	221.3	225.8
Farm-product raw materials .....	515	139.0	137.0	133.8	127.5	124.4	125.0	124.5	118.1
Grain and field beans .....	5153	( )	( )	( )	( )	( )	66.9	67.3	65.5
Livestock .....	5154	( )	( )	( )	( )	( )	36.5	36.2	35.3
Farm-product raw materials, nec .....	5159	( )	( )	( )	( )	( )	21.6	21.0	17.3
Plastics materials and basic shapes .....	5162	( )	( )	( )	( )	( )	22.2	23.2	24.9
Chemicals and allied products, nec .....	5169	( )	( )	( )	( )	( )	102.3	104.6	111.4
Books, periodicals, and newspapers .....	5192	( )	( )	( )	( )	( )	62.1	65.1	69.8
Flowers and florists' supplies .....	5193	( )	( )	( )	( )	( )	41.6	45.1	49.7
Tobacco and tobacco products .....	5194	38.3	40.1	39.1	40.5	40.1	42.3	45.6	46.1
Paints, varnishes, and supplies .....	5198	25.4	26.9	27.8	28.0	29.6	30.4	30.5	30.1
Wholesale trade nondurable goods, nec .....	5199	( )	( )	( )	( )	( )	117.8	128.6	127.5
<b>Retail trade</b>									
Paint, glass, and wallpaper stores .....	523	14,954	15,872	16,762	17,307	17,882	18,529	19,115	19,302
Retail nurseries and garden stores .....	526	58.8	63.2	66.1	67.2	66.9	71.3	72.6	71.0
Mobile home dealers .....	527	53.3	56.6	64.2	68.5	71.0	76.8	79.0	79.1
Fruit and vegetable markets .....	543	24.0	28.3	29.1	27.5	27.3	27.7	27.9	26.1
Candy, nut, and confectionery stores .....	544	20.0	21.0	21.2	21.6	21.9	22.4	22.6	21.4
Miscellaneous food stores .....	549	25.3	27.6	29.6	31.5	30.4	30.7	32.5	30.4
Used car dealers .....	552	34.5	37.8	39.5	38.9	39.0	40.5	43.5	42.1
Boat dealers .....	555	41.8	47.5	51.1	52.5	55.4	59.9	62.6	61.4
Recreational vehicle dealers .....	556	23.0	25.2	27.2	30.2	33.7	38.2	40.5	37.0
Motorcycle dealers .....	557	( )	( )	( )	( )	( )	19.6	21.3	21.4
Women's accessory and specialty stores .....	563	26.1	27.7	29.8	29.0	27.0	25.9	25.0	24.2
Children's and infants' wear stores .....	564	27.7	29.5	32.7	36.2	40.7	45.4	46.0	51.6
Miscellaneous apparel and accessory stores .....	569	32.3	32.6	33.8	35.0	35.9	36.9	35.4	33.6
Floor covering stores .....	5713	45.6	49.3	51.5	54.5	57.0	63.0	67.7	72.2
Drapery, upholstery, and miscellaneous home furnishings .....	5714,9	52.3	59.6	64.3	68.3	72.5	77.6	80.1	79.4
Computer and software stores .....	5734	68.7	77.2	82.3	86.8	89.6	95.8	100.5	100.2
Musical instrument stores .....	5736	( )	( )	( )	( )	( )	60.2	69.5	74.2
Used merchandise stores .....	593	( )	( )	( )	( )	( )	25.6	26.4	26.9
Hobby, toy, and game shops .....	5945	( )	( )	( )	( )	( )	54.8	60.6	66.4
Camera, luggage, and leather goods stores .....	5946,8	44.1	52.2	56.5	63.8	69.9	82.3	87.6	90.9
Direct selling establishments .....	5963	39.7	39.7	39.9	40.4	42.2	43.0	44.0	41.0
Florists, tobacco stores, and newsstands .....	5992,3,4	52.5	52.3	56.2	61.5	59.4	60.5	57.5	53.5
Optical goods stores .....	5995	( )	( )	( )	( )	( )	143.6	149.9	148.5
Miscellaneous retail stores, nec .....	5999	( )	( )	( )	( )	( )	173.5	192.8	198.1
<b>Finance, insurance, and real estate</b>									
Central reserve depositories .....	601	5,361	5,588	5,825	6,140	6,443	6,594	6,639	6,681
National and commercial banks, nec .....	6021,9	( )	( )	( )	( )	( )	27.9	29.0	26.7
Foreign banks and branches and agencies .....	608	794.7	803.2	827.8	850.5	849.1	879.6	878.4	898.9
Functions closely related to banking .....	609	( )	( )	( )	( )	( )	25.8	27.2	28.1
Federal and federally sponsored credit agencies .....	611	( )	( )	( )	( )	( )	47.2	51.4	57.9
Short-term business credit .....	6153	( )	( )	( )	( )	( )	11.0	10.3	11.1
Miscellaneous business credit institutions .....	6159	( )	( )	( )	( )	( )	34.3	40.2	44.1
Investment advice .....	6282	( )	( )	( )	( )	( )	30.8	33.4	35.2
Security and commodity services, nec .....	6289	( )	( )	( )	( )	( )	44.0	45.3	48.7
Holding offices .....	671	( )	( )	( )	( )	( )	24.8	24.9	26.6
Bank holding companies .....	6712	67.6	74.8	80.8	91.1	104.4	103.7	105.1	110.4
Holding companies, nec .....	6719	( )	( )	( )	( )	( )	26.9	26.5	28.0
Trusts .....	673	( )	( )	( )	( )	( )	76.8	78.6	82.4
Investment offices and miscellaneous investing .....	672,9	38.7	34.4	40.4	55.2	55.5	57.8	77.0	64.6
Accident and health insurance .....	6321	27.5	31.5	36.3	39.1	39.2	42.3	39.5	41.4
Hospital and medical service plans .....	6324	( )	( )	( )	( )	( )	52.6	53.9	55.2
Pension, health, and welfare funds .....	637	( )	( )	( )	( )	( )	161.5	172.0	181.9
Surety insurance and insurance carriers, nec .....	635,9	25.2	24.6	26.8	27.8	33.5	36.0	36.3	37.5
Title abstract offices .....	654	8.3	8.4	9.4	9.8	12.0	13.0	14.7	15.5
		19.6	23.7	24.8	27.7	32.7	30.9	30.3	30.5

See footnotes at end of table.

**Table 6. Employment benchmarks for industries not published monthly, March 1983-90—Continued**

(In thousands)

Industry	1987 SIC Code	1983	1984	1985	1986	1987	1988	1989	1990
<b>Services</b> .....		19,262	20,365	21,561	22,650	23,754	25,105	26,702	27,944
<b>Agricultural services:</b>									
Veterinary services .....	074	77.2	81.9	87.0	94.1	100.4	107.6	114.2	122.5
Animal services, except veterinary .....	075	35.4	38.2	39.7	41.4	42.2	44.3	41.6	41.9
Landscape and horticultural services .....	078	131.4	154.2	181.0	199.2	220.4	241.0	249.2	274.0
<b>Hotels and other lodging places:</b>									
Camps and recreational vehicle parks .....	703	15.2	16.8	18.3	18.0	19.2	20.0	21.6	23.3
Rooming and boarding houses, and membership-basis organization hotels .....	702,4	14.6	15.3	15.3	15.5	16.2	16.7	17.9	17.9
<b>Personal services:</b>									
Barber shops .....	724	23.8	23.4	21.2	20.1	19.3	18.5	17.9	17.7
Shoe repair shops and shoeshine parlors .....	725	( )	( )	( )	( )	( )	7.0	7.0	6.9
Tax return preparation services .....	7291	( )	( )	( )	( )	( )	83.9	88.2	91.8
Miscellaneous personal services, nec .....	7299	( )	( )	( )	( )	( )	79.5	91.4	101.8
<b>Business services:</b>									
Outdoor, radio, television, and other advertising, nec .....	7312,3,9	41.8	46.2	48.1	51.9	55.1	63.2	63.1	68.7
Adjustment and collection services .....	7322	( )	( )	( )	( )	( )	55.7	62.6	67.5
Credit reporting services .....	7323	( )	( )	( )	( )	( )	35.5	37.1	39.6
Direct mail advertising services .....	7331	( )	( )	( )	( )	( )	88.4	86.9	89.8
Photocopying and duplicating services .....	7334	( )	( )	( )	( )	( )	38.7	45.0	48.9
Commercial photography .....	7335	( )	( )	( )	( )	( )	16.3	17.6	18.0
Commercial art and graphic design .....	7336	( )	( )	( )	( )	( )	40.7	45.3	48.6
Secretarial and court reporting .....	7338	( )	( )	( )	( )	( )	22.8	26.3	29.5
Disinfecting and pest control services .....	7342	( )	( )	( )	( )	( )	64.3	67.0	69.0
Building maintenance services, nec .....	7349	( )	( )	( )	( )	( )	692.9	723.0	740.7
Miscellaneous equipment rental and leasing .....	735	( )	( )	( )	( )	( )	173.2	187.1	204.8
Medical equipment rental .....	7352	( )	( )	( )	( )	( )	19.7	20.7	24.1
Heavy construction equipment rental .....	7353	( )	( )	( )	( )	( )	39.5	44.1	47.7
Equipment rental and leasing, nec .....	7359	( )	( )	( )	( )	( )	114.0	122.3	133.0
Computer integrated systems design .....	7373	( )	( )	( )	( )	( )	90.6	97.6	98.6
Information retrieval services .....	7375	( )	( )	( )	( )	( )	37.6	44.9	47.5
Computer facilities management .....	7376	( )	( )	( )	( )	( )	26.0	25.8	25.6
Computer rental and leasing .....	7377	( )	( )	( )	( )	( )	10.3	11.7	10.7
Computer maintenance and repair .....	7378	( )	( )	( )	( )	( )	30.6	33.1	39.2
Computer related services, nec .....	7379	( )	( )	( )	( )	( )	69.8	78.1	88.5
Security systems services .....	7382	( )	( )	( )	( )	( )	36.5	39.3	41.6
News syndicates .....	7383	7.7	8.2	8.3	8.5	9.0	10.1	10.5	10.3
Business services, nec .....	7389	349.1	394.0	434.4	457.3	475.6	551.5	610.8	672.3
<b>Auto repair, services, and parking:</b>									
Passenger car rental .....	7514	( )	( )	( )	( )	( )	88.6	95.0	98.7
Passenger car leasing .....	7515	( )	( )	( )	( )	( )	11.8	11.8	11.4
Truck and utility trailer rental .....	7513,9	( )	( )	( )	( )	( )	58.0	62.6	64.9
Automobile parking .....	752	39.9	41.9	43.8	46.9	48.6	53.7	54.8	57.3
Auto exhaust system repair shops .....	7533	( )	( )	( )	( )	( )	20.3	20.2	22.2
Automotive and tire repair shops .....	7532,4	( )	( )	( )	( )	( )	167.6	175.4	185.1
Automotive glass replacement shops .....	7536	( )	( )	( )	( )	( )	14.7	17.6	19.8
Automotive transmission repair shops .....	7537	( )	( )	( )	( )	( )	22.8	23.5	23.6
General automotive repair shops .....	7538	149.3	166.7	179.2	183.9	186.6	197.2	208.0	221.7
Automotive repair shops, nec .....	7539	( )	( )	( )	( )	( )	49.6	52.5	54.7
Automotive services, except repair .....	754	65.2	76.4	88.0	97.6	115.5	134.1	151.6	161.7
Carwashes .....	7542	( )	( )	( )	( )	( )	88.6	98.4	103.3
Automotive services, nec .....	7549	( )	( )	( )	( )	( )	45.5	53.2	58.4
Reupholstery and furniture repair .....	764	21.9	23.2	23.3	22.9	23.4	23.5	23.9	24.5
Watch and miscellaneous repair shops .....	763,9	167.9	184.5	191.8	192.5	189.8	211.6	230.7	248.5
<b>Motion pictures:</b>									
Motion picture distribution and services .....	782	10.7	11.8	11.2	12.1	13.0	17.8	12.2	14.0
Video tape rental .....	784	( )	( )	( )	( )	( )	101.7	117.2	133.7
<b>Amusement and recreational services:</b>									
Dance studios, schools, and halls .....	791	( )	( )	( )	( )	( )	19.8	21.4	22.2
Producers, orchestras, and entertainers .....	792	91.3	92.4	98.4	102.1	107.1	116.2	125.6	138.1
Bowling centers .....	793	( )	( )	( )	( )	( )	100.2	100.9	100.6
Commercial sports .....	794	65.2	69.3	68.6	74.0	73.0	74.9	85.8	92.1
Public golf courses .....	7992	( )	( )	( )	( )	( )	27.2	29.9	34.3
Coin-operated amusement devices .....	7993	( )	( )	( )	( )	( )	24.9	25.9	27.3
Amusement parks .....	7996	( )	( )	( )	( )	( )	67.8	74.6	80.7
Amusement and recreation, nec .....	7999	( )	( )	( )	( )	( )	158.5	176.2	185.0

See footnotes at end of table.

**Table 6. Employment benchmarks for industries not published monthly, March 1983-90—Continued**

(In thousands)

Industry	1987 SIC Code	1983	1984	1985	1986	1987	1988	1989	1990
<b>Services-Continued</b>									
Health services:									
Offices and clinics of osteopathic physicians .....	803	27.5	28.7	29.4	30.7	32.3	33.3	34.2	35.3
Offices and clinics of chiropractors and optometrists .....	8041,2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	115.5	125.0	134.7
Offices and clinics of podiatrists .....	8043	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	20.0	21.2	22.5
Offices and clinics of health practitioners, nec. ....	8049	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	78.7	94.7	110.9
Health and allied services, nec .....	809	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	198.6	218.5	227.9
Specialty outpatient clinics, nec. ....	8093	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	136.9	149.0	156.0
Kidney dialysis centers and health and allied services, nec .....	8092,9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	61.7	69.5	71.9
Educational services:									
Libraries .....	823	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.4	13.9	14.2
Schools and educational services, nec. ....	829	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	82.0	90.7	100.3
Social services:									
Social services, nec .....	839	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	158.5	168.6	175.1
Membership organizations:									
Professional organizations .....	862	36.6	37.7	39.6	41.8	43.7	46.8	48.6	50.9
Religious organizations .....	866	880.6	855.6	843.9	823.9	851.0	965.5	1,012.7	1,119.6
Political and membership organizations, nec .....	865,9	64.5	67.3	71.7	87.9	90.2	100.3	104.4	97.1
Engineering and management services:									
Surveying services .....	8713	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	49.1	50.9	50.3
Commercial nonphysical research .....	8732	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	88.6	94.6	99.6
Testing laboratories .....	8734	36.7	40.5	44.9	46.5	47.1	56.5	64.8	72.7
Management services .....	8741	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	219.0	244.9	265.7
Management consulting services .....	8742	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	147.0	162.8	192.9
Public relations services .....	8743	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	30.6	31.8	32.9
Facilities support services .....	8744	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	45.9	54.3	57.0
Business consulting, nec .....	8748	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	50.1	62.5	72.4
<b>Government</b> .....		16,189	16,216	16,596	16,946	17,254	17,654	18,011	18,568
Federal:									
Small arms ammunition and ordnance .....		22.1	22.2	19.1	19.1	17.3	17.0	16.9	19.4
Other manufacturing .....		30.3	31.5	31.7	31.9	31.5	31.5	24.6	29.4
Trade .....		79.3	78.2	79.7	77.3	79.2	81.0	74.5	79.7
Finance .....		20.7	20.6	20.6	22.2	24.5	25.4	23.8	26.6
Other services .....		164.3	159.6	158.9	159.2	166.7	172.8	162.7	164.5
All other Federal Government, except Postal Service .....		1,528.3	1,530.2	1,434.5	1,451.4	1,422.7	1,402.0	1,502.2	1,602.2
State:									
State government, except education .....		2,197.7	2,217.4	2,263.2	2,300.9	2,341.0	2,418.9	2,479.0	2,544.7
Construction .....		248.1	237.4	228.3	207.6	189.1	169.3	145.5	116.0
Transportation and public utilities .....		44.0	46.2	45.4	45.6	45.0	47.7	46.4	48.6
Services .....		( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2,477.0	2,545.0	2,586.5
Social services .....		178.0	180.8	183.6	175.3	173.9	184.8	198.9	203.4
Services, except hospitals, education, and social services .....		123.7	122.9	124.2	125.8	119.4	116.1	119.6	121.5
Local:									
Local government, except education .....		4,218.3	4,189.6	4,231.4	4,295.8	4,381.3	4,501.2	4,600.7	4,743.3
Services .....		( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6,969.2	7,128.6	7,327.5
Social services .....		125.8	114.1	117.9	114.7	114.9	112.7	109.4	104.7
Services, except hospitals, education, and social services .....		166.2	166.9	177.9	187.9	198.3	203.0	214.4	223.3
<b>Nonclassifiable establishments</b> .....		144.8	110.3	199.5	187.3	245.7	179.3	214.5	163.9

<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 7. Seasonal adjustment factors for employees on nonfarm payrolls by industry**

Industry	1991					
	May	June	July	Aug.	Sept.	Oct.
<b>Total<sup>1</sup></b>						
<b>Mining<sup>2</sup></b> .....	99.9	100.7	101.3	101.6	101.3	101.2
Oil and gas extraction .....	99.1	100.2	101.1	101.1	100.6	100.5
<b>Construction</b> .....	100.7	104.0	105.9	106.6	105.3	104.6
General building contractors .....	99.7	103.4	105.2	105.9	104.1	103.4
<b>Manufacturing<sup>1</sup></b>						
<b>Durable goods<sup>1</sup></b>						
Lumber and wood products <sup>2</sup> .....	99.7	102.0	102.2	102.5	102.4	100.9
Furniture and fixtures .....	99.5	99.9	98.0	99.7	100.5	100.9
Stone, clay, and glass products .....	100.8	102.0	101.5	101.8	101.7	101.4
Primary metal industries .....	99.9	100.6	99.2	100.1	100.3	100.1
Blast furnaces and basic steel products .....	99.7	100.5	100.5	100.4	100.0	99.5
Fabricated metal products .....	99.9	100.5	99.2	99.8	100.6	100.7
Industrial machinery and equipment <sup>2</sup> .....	100.1	100.4	99.7	99.6	99.6	99.8
Electronic and other electrical equipment .....	99.6	100.3	99.6	100.1	100.2	100.5
Transportation equipment .....	100.5	100.9	99.3	99.4	100.6	100.6
Motor vehicles and equipment .....	101.2	101.8	98.4	99.1	101.5	101.3
Instruments and related products .....	99.9	100.4	100.0	100.2	99.9	99.9
Miscellaneous manufacturing .....	99.8	100.5	97.9	100.8	101.6	102.2
<b>Nondurable goods<sup>1</sup></b>						
Food and kindred products <sup>2</sup> .....	97.4	100.0	102.3	104.8	105.0	102.9
Tobacco products .....	92.1	93.1	93.4	100.2	104.8	105.4
Textile mill products .....	99.8	100.6	98.7	100.5	100.7	100.5
Apparel and other textile products .....	100.2	100.9	97.1	100.1	100.6	100.9
Paper and allied products .....	99.6	101.0	100.6	100.8	100.2	100.1
Printing and publishing .....	99.9	100.2	99.8	99.7	99.6	99.9
Chemicals and allied products .....	99.9	100.8	100.7	100.7	100.1	99.8
Petroleum and coal products .....	100.4	102.0	102.3	102.3	101.4	101.1
Rubber and misc. plastics products .....	100.0	100.7	99.1	100.0	100.4	100.7
Leather and leather products .....	100.4	101.7	95.6	101.6	101.5	101.4
<b>Transportation and public utilities<sup>1</sup></b>						
Transportation .....	100.1	100.7	99.5	99.5	101.3	101.4
Communications and public utilities .....	99.9	100.6	100.9	100.9	100.1	100.0
<b>Wholesale trade<sup>1</sup></b>						
Durable goods .....	100.0	100.6	100.6	100.5	100.0	100.0
Nondurable goods .....	99.9	100.8	100.7	100.7	100.7	100.7
<b>Retail trade</b> .....	99.9	100.8	100.5	100.7	100.2	100.0
General merchandise stores .....	97.1	97.8	97.8	98.2	98.5	100.7
Food stores .....	99.4	100.3	100.4	100.1	99.7	100.3
Automotive dealers and service stations .....	100.2	100.9	101.3	101.3	100.9	100.4
Eating and drinking places .....	101.5	103.2	102.5	102.9	102.0	99.7
<b>Finance, insurance, and real estate<sup>1</sup></b>						
Finance .....	99.8	100.6	100.9	100.8	99.9	99.6
Insurance .....	100.0	100.4	100.6	100.4	99.8	99.7
Real estate <sup>2</sup> .....	100.4	103.1	103.9	104.0	101.7	99.9
<b>Services</b> .....	100.3	100.9	100.8	100.6	100.3	100.3
Business services .....	99.8	100.7	100.6	101.1	101.5	101.3
Health services .....	99.9	100.5	100.4	100.3	100.0	99.9
<b>Government<sup>1</sup></b>						
Federal .....	100.3	101.0	101.3	100.8	99.8	99.5
State .....	101.4	97.2	94.7	94.6	98.5	102.4
Local .....	102.7	101.6	93.1	91.6	98.3	101.4

<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 8. Seasonal adjustment factors for women employees on nonfarm payrolls by industry**

Industry	1991					
	May	June	July	Aug.	Sept.	Oct.
<b>Total<sup>1</sup></b>						
<b>Mining</b> .....	100.1	101.8	102.0	101.4	100.2	99.7
<b>Construction</b> .....	100.1	101.4	102.1	102.2	101.5	101.4
<b>Manufacturing<sup>1</sup></b>						
<b>Durable goods<sup>1</sup></b>						
Lumber and wood products .....	100.4	102.2	101.6	101.7	101.2	100.3
Furniture and fixtures .....	99.8	99.7	97.9	99.3	100.2	101.0
Stone, clay, and glass products .....	99.7	101.3	100.2	101.1	101.0	101.2
Primary metal industries .....	100.0	101.1	99.0	100.4	100.3	100.2
Fabricated metal products .....	100.1	100.5	99.0	100.0	100.5	100.7
Industrial machinery and equipment .....	100.1	100.6	99.9	99.7	99.4	99.8
Electronic and other electrical equipment .....	99.6	100.3	99.3	100.1	100.4	100.6
Transportation equipment .....	100.1	100.7	99.6	99.5	100.4	100.3
Instruments and related products .....	99.8	100.4	99.7	100.3	100.1	100.2
Miscellaneous manufacturing .....	99.7	100.6	97.2	101.2	102.3	103.3
<b>Nondurable goods<sup>1</sup></b>						
Food and kindred products <sup>2</sup> .....	95.8	99.0	103.0	107.3	108.0	104.7
Tobacco products .....	89.7	90.0	89.6	100.6	108.1	108.9
Textile mill products .....	99.8	100.6	98.9	100.6	100.9	100.6
Apparel and other textile products .....	100.3	100.8	96.6	100.0	100.5	100.9
Paper and allied products .....	99.5	101.3	101.1	101.6	100.5	100.6
Printing and publishing .....	100.1	100.3	99.8	99.7	99.4	99.7
Chemicals and allied products .....	99.7	101.2	101.0	101.0	100.5	99.7
Petroleum and coal products .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Rubber and misc. plastics products .....	100.2	100.7	98.5	99.8	100.5	101.0
Leather and leather products .....	100.0	101.5	95.9	101.8	102.2	102.1
<b>Transportation and public utilities</b> .....	100.2	100.6	99.0	98.8	100.6	100.7
<b>Wholesale trade</b> .....	99.7	100.4	100.1	100.1	100.3	100.7
<b>Retail trade</b> .....	99.6	100.6	100.1	100.4	100.2	100.3
<b>Finance, insurance, and real estate</b> .....	99.9	100.7	100.9	100.8	99.9	99.7
<b>Services<sup>2</sup></b> .....	100.2	100.4	100.0	99.8	100.0	100.2
<b>Government<sup>1</sup></b>						
Federal .....	99.7	100.8	101.8	101.0	100.3	100.2
State .....	101.5	96.8	93.9	93.8	98.3	102.4
Local .....	103.7	101.2	88.8	87.6	97.9	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.

<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.

**Table 9. Seasonal adjustment factors for production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by industry**

Industry	1991					
	May	June	July	Aug.	Sept.	Oct.
<b>Total private<sup>2</sup></b>						
<b>Mining</b> .....	100.0	100.9	101.3	102.0	101.7	101.3
<b>Construction</b> .....	100.8	104.8	107.1	108.2	106.7	105.7
<b>Manufacturing<sup>2</sup></b>						
<b>Durable goods<sup>2</sup></b>						
Lumber and wood products <sup>3</sup> .....	99.7	102.2	102.5	102.9	102.7	101.0
Furniture and fixtures .....	99.3	99.7	97.6	99.8	100.6	101.2
Stone, clay, and glass products .....	100.9	102.3	101.7	102.2	102.1	101.8
Primary metal industries .....	99.9	100.7	98.8	100.0	100.5	100.2
Blast furnaces and basic steel products .....	99.7	100.5	100.5	100.5	100.1	99.3
Fabricated metal products .....	99.9	100.6	98.8	99.8	100.8	101.0
Industrial machinery and equipment .....	100.3	100.5	99.4	99.2	99.6	99.7
Electronic and other electrical equipment .....	99.6	100.2	99.0	99.9	100.3	100.6
Transportation equipment .....	101.0	101.3	98.5	98.7	100.9	100.9
Motor vehicles and equipment .....	101.7	102.2	97.7	98.5	101.9	101.8
Instruments and related products <sup>3</sup> .....	99.5	100.2	99.6	100.3	100.6	100.7
Miscellaneous manufacturing .....	99.6	100.6	97.4	101.1	102.2	102.7
<b>Nondurable goods<sup>2</sup></b>						
Food and kindred products .....	96.6	99.7	102.7	106.2	106.5	103.9
Tobacco products .....	89.4	90.7	90.5	99.9	106.2	106.9
Textile mill products .....	99.9	100.6	98.6	100.6	100.8	100.4
Apparel and other textile products .....	100.2	101.0	96.6	100.1	100.7	101.1
Paper and allied products .....	99.4	101.1	100.8	100.9	100.3	100.3
Printing and publishing .....	100.1	100.1	99.4	99.6	99.3	99.7
Chemicals and allied products .....	99.9	100.9	100.6	100.9	100.3	99.8
Petroleum and coal products .....	100.7	102.6	102.8	103.0	102.1	101.9
Rubber and misc. plastics products .....	100.0	100.7	98.7	100.0	100.5	100.9
Leather and leather products .....	100.4	101.9	95.6	101.8	101.7	101.5
<b>Transportation and public utilities</b> .....	100.0	100.7	99.9	100.1	101.0	101.1
<b>Wholesale trade</b> .....	100.0	100.8	100.8	100.8	100.3	100.4
<b>Retail trade<sup>3</sup></b> .....	99.9	100.9	100.6	100.8	100.2	100.1
<b>Finance, insurance, and real estate</b> .....	99.9	101.2	101.7	101.7	100.2	99.7
<b>Services</b> .....	100.4	101.0	100.8	100.6	100.3	100.3

<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 10. Seasonal adjustment factors for average weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls by industry**

Industry	1991					
	May	June	July	Aug.	Sept.	Oct.
<b>Total private<sup>2</sup></b>						
<b>Mining</b> .....	98.7	100.1	99.4	100.0	101.5	101.1
<b>Construction</b> .....	( <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 .....	100.5	101.3	99.4	101.0	101.1	100.9
Furniture and fixtures .....	98.7	99.7	98.6	100.9	102.0	101.1
Stone, clay, and glass products .....	100.6	101.1	100.3	101.4	101.5	101.4
Primary metal industries <sup>4</sup> .....	99.9	100.5	99.4	99.1	100.7	99.9
Blast furnaces and basic steel products .....	100.0	100.8	100.1	99.1	100.6	99.6
Fabricated metal products .....	99.9	100.6	98.3	99.5	100.8	100.4
Industrial machinery and equipment .....	99.7	100.2	99.0	98.9	100.4	99.9
Electronic and other electrical equipment .....	99.3	100.2	98.3	99.2	100.8	100.5
Transportation equipment .....	100.8	100.8	98.6	98.5	101.2	100.6
Motor vehicles and equipment .....	101.4	101.3	97.8	98.2	102.4	101.7
Instruments and related products .....	99.2	100.1	98.7	99.3	100.0	100.0
Miscellaneous manufacturing .....	99.7	100.1	98.1	99.9	100.3	101.3
<b>Nondurable goods<sup>2</sup></b>						
Food and kindred products .....	99.7	100.2	100.1	101.5	101.9	100.8
Tobacco products .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Textile mill products <sup>5</sup> .....	99.7	101.0	99.0	100.9	101.3	100.8
Apparel and other textile products .....	99.9	100.9	99.4	100.4	100.6	100.6
Paper and allied products .....	99.6	99.9	99.4	99.6	100.9	100.5
Printing and publishing <sup>4</sup> .....	99.0	99.0	99.3	100.4	101.4	100.2
Chemicals and allied products .....	99.7	100.1	99.2	98.9	100.1	99.8
Petroleum and coal products <sup>4</sup> .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Rubber and misc. plastics products .....	100.1	100.6	98.6	99.5	100.7	100.4
Leather and leather products .....	100.1	101.8	99.9	101.3	100.4	100.3
<b>Transportation and public utilities<sup>4 5</sup></b> .....	99.6	100.6	101.2	100.6	100.4	100.5
<b>Wholesale trade</b> .....	99.8	100.3	100.6	100.0	100.4	100.3
<b>Retail trade<sup>4 5</sup></b> .....	99.5	101.1	103.0	102.3	100.1	100.0
<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> )
<b>Services<sup>4</sup></b> .....	99.4	100.3	101.3	100.9	99.9	99.9

<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 moving-holiday adjustment was done for September because there was no evidence of significant effects associated with the relative timing of Labor Day and the reference period of the payroll survey.

<sup>5</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 overtime hours of production workers on manufacturing payrolls**

Industry group	1991					
	May	June	July	Aug.	Sept.	Oct.
<b>Manufacturing<sup>1</sup></b>						
<b>Durable goods</b> .....	97.7	101.3	94.7	100.5	110.6	104.6
<b>Nondurable goods<sup>2</sup></b> .....	93.9	99.3	99.5	106.5	112.8	106.1

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

<sup>2</sup> No moving-holiday adjustment was done for September because there was no evidence of

significant effects associated with the relative timing of Labor Day and the reference period of the payroll survey.

**Table 12. Seasonal adjustment factors for average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls by industry**

Industry division	1991					
	May	June	July	Aug.	Sept.	Oct.
<b>Total private<sup>2</sup></b>						
<b>Mining</b> .....	99.8	99.6	99.7	99.2	100.1	99.3
<b>Construction</b> .....	99.7	99.3	99.7	99.7	100.8	100.8
<b>Manufacturing</b> .....	100.0	100.0	100.0	99.3	100.2	99.9
<b>Excluding overtime</b> .....	100.2	100.0	100.0	99.2	99.7	99.7
<b>Transportation and public utilities</b> .....	99.5	99.5	99.9	99.7	100.4	100.3
<b>Wholesale trade<sup>3</sup></b> .....	99.9	99.6	100.0	99.3	100.1	99.8
<b>Retail trade</b> .....	99.9	99.6	99.3	99.0	100.3	100.2
<b>Finance, insurance, and real estate<sup>3</sup></b> .....	100.1	99.2	99.6	99.0	99.8	100.0
<b>Services<sup>3</sup></b> .....	99.7	99.0	98.8	98.5	100.1	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> No ARIMA models were identified to extend the unadjusted series for one year. Factors shown are projected using X-11 without the ARIMA option.

**HOUSEHOLD DATA  
HISTORICAL**

**A-1. Employment status of the noninstitutional population 16 years and over, 1958 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			
<b>Annual averages</b>											
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
1987 .....	184,490	121,602	65.9	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888
1988 .....	186,322	123,378	66.2	116,677	1,709	114,968	3,169	111,800	6,701	5.4	62,944
1989 .....	188,081	125,557	66.8	119,030	1,688	117,342	3,199	114,142	6,528	5.2	62,523
1990 .....	189,686	126,424	66.6	119,550	1,637	117,914	3,186	114,728	6,874	5.4	63,262
<b>Monthly data, seasonally adjusted<sup>2</sup></b>											
<b>1990:</b>											
May .....	189,467	126,578	66.8	119,916	1,639	118,277	3,286	114,991	6,662	5.3	62,889
June .....	189,607	126,427	66.7	119,867	1,630	118,237	3,279	114,958	6,560	5.2	63,180
July .....	189,763	126,336	66.6	119,509	1,627	117,882	3,108	114,774	6,827	5.4	63,427
August .....	189,901	126,345	66.5	119,330	1,640	117,690	3,152	114,538	7,015	5.6	63,556
September .....	190,002	126,571	66.6	119,484	1,601	117,883	3,194	114,689	7,087	5.6	63,431
October .....	190,095	126,445	66.5	119,303	1,570	117,733	3,175	114,558	7,142	5.6	63,650
November .....	190,312	126,338	66.4	119,001	1,615	117,386	3,185	114,201	7,337	5.8	63,974
December .....	190,483	126,791	66.6	119,191	1,617	117,574	3,253	114,321	7,600	6.0	63,692
<b>1991:</b>											
January .....	190,592	126,253	66.2	118,537	1,615	116,922	3,163	113,759	7,715	6.1	64,339
February .....	190,717	126,678	66.4	118,520	1,602	116,918	3,222	113,696	8,158	6.4	64,039
March .....	190,703	126,786	66.5	118,214	1,460	116,754	3,098	113,656	8,572	6.8	63,917
April .....	190,836	127,128	66.6	118,854	1,456	117,398	3,156	114,243	8,274	6.5	63,708
May .....	190,980	126,690	66.3	118,049	1,458	116,591	3,272	113,319	8,640	6.8	64,291

<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.

**HOUSEHOLD DATA  
HISTORICAL**

**A-2. Employment status of the noninstitutional population 16 years and over by sex, 1980 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>												
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	
1987 .....	88,476	67,764	76.8	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692	
1988 .....	89,404	68,474	76.6	64,820	1,547	63,273	2,493	60,780	3,655	5.3	20,930	
1989 .....	90,283	69,380	76.8	65,835	1,520	64,315	2,513	61,802	3,525	5.1	20,923	
1990 .....	91,122	69,705	76.5	65,906	1,472	64,435	2,507	61,928	3,799	5.4	21,417	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1990:</b>												
May .....	91,014	69,729	76.6	66,061	1,472	64,589	2,562	62,027	3,668	5.3	21,285	
June .....	91,087	69,609	76.4	65,964	1,465	64,499	2,571	61,928	3,645	5.2	21,478	
July .....	91,168	69,523	76.3	65,728	1,462	64,266	2,478	61,788	3,795	5.5	21,645	
August .....	91,240	69,552	76.2	65,663	1,475	64,186	2,477	61,711	3,889	5.6	21,688	
September .....	91,271	69,814	76.5	65,853	1,441	64,412	2,512	61,900	3,961	5.7	21,457	
October .....	91,299	69,804	76.5	65,822	1,414	64,408	2,504	61,904	3,982	5.7	21,495	
November .....	91,440	69,899	76.4	65,790	1,453	64,337	2,518	61,819	4,109	5.9	21,541	
December .....	91,537	70,058	76.5	65,781	1,454	64,327	2,572	61,755	4,277	6.1	21,479	
<b>1991:</b>												
January .....	91,590	69,543	75.9	65,251	1,453	63,798	2,466	61,331	4,292	6.2	22,047	
February .....	91,650	69,749	76.1	65,043	1,439	63,604	2,520	61,084	4,706	6.7	21,901	
March .....	91,587	69,808	76.2	64,646	1,314	63,532	2,456	61,076	4,962	7.1	21,779	
April .....	91,652	69,655	76.2	65,112	1,310	63,802	2,504	61,298	4,743	6.8	21,797	
May .....	91,720	69,704	76.0	64,746	1,303	63,443	2,596	60,847	4,957	7.1	22,017	
<b>Annual averages</b>												
<b>WOMEN</b>												
1980 .....	86,472	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 .....	90,867	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	660	43,367	4,457	9.2	43,181	
1984 .....	92,924	49,855	53.7	46,061	148	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	
1987 .....	96,013	53,818	56.1	50,494	160	50,334	666	49,668	3,324	6.2	42,195	
1988 .....	96,918	54,904	56.6	51,858	162	51,696	676	51,020	3,048	5.5	42,014	
1989 .....	97,798	56,198	57.5	53,195	168	53,027	687	52,341	3,003	5.3	41,601	
1990 .....	98,564	56,719	57.5	53,644	165	53,479	679	52,800	3,075	5.4	41,645	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1990:</b>												
May .....	98,453	56,849	57.7	53,855	167	53,688	724	52,964	2,994	5.3	41,604	
June .....	98,520	56,818	57.7	53,903	165	53,738	708	53,030	2,915	5.1	41,702	
July .....	98,595	56,813	57.6	53,781	165	53,616	630	52,986	3,032	5.3	41,782	
August .....	98,661	56,793	57.6	53,667	165	53,502	675	52,827	3,126	5.5	41,868	
September .....	98,731	56,757	57.5	53,631	160	53,471	682	52,789	3,126	5.5	41,974	
October .....	98,796	56,641	57.3	53,481	156	53,325	671	52,654	3,160	5.6	42,155	
November .....	98,872	56,439	57.1	53,211	162	53,049	667	52,382	3,228	5.7	42,433	
December .....	98,946	56,733	57.3	53,410	163	53,247	681	52,566	3,323	5.9	42,213	
<b>1991:</b>												
January .....	99,002	56,710	57.3	53,287	162	53,125	697	52,428	3,423	6.0	42,292	
February .....	99,087	56,929	57.5	53,477	163	53,314	703	52,611	3,452	6.1	42,138	
March .....	99,116	56,978	57.5	53,368	146	53,222	642	52,580	3,610	6.3	42,138	
April .....	99,184	57,273	57.7	53,742	146	53,596	651	52,945	3,531	6.2	41,911	
May .....	99,260	56,986	57.4	53,303	155	53,148	676	52,473	3,663	6.5	42,274	

<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.

**A-3. Employment status of the civilian noninstitutional population 16 years and over, 1958 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>								
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
1987 .....	182,753	119,865	65.6	112,440	7,425	6.2	6.2	6.2
1988 .....	184,613	121,669	65.9	114,968	6,701	5.5	5.5	5.6
1989 .....	186,393	123,869	66.5	117,342	6,528	5.3	5.2	5.4
1990 .....	188,049	124,787	66.4	117,914	6,874	5.5	5.6	5.4
<b>Monthly data, seasonally adjusted<sup>2</sup></b>								
<b>1990:</b>								
May .....	187,828	124,939	66.5	118,277	6,662	5.3	5.4	5.3
June .....	187,977	124,797	66.4	118,237	6,560	5.3	5.3	5.1
July .....	188,136	124,709	66.3	117,882	6,827	5.5	5.6	5.4
August .....	188,261	124,705	66.2	117,690	7,015	5.6	5.7	5.5
September .....	188,401	124,970	66.3	117,883	7,087	5.7	5.8	5.5
October .....	188,525	124,875	66.2	117,733	7,142	5.7	5.8	5.6
November .....	188,697	124,723	66.1	117,386	7,337	5.9	6.0	5.7
December .....	188,866	125,174	66.3	117,574	7,600	6.1	6.2	5.9
<b>1991:</b>								
January .....	188,977	124,638	66.0	116,922	7,715	6.2	6.3	6.1
February .....	189,115	125,076	66.1	116,918	8,158	6.5	6.9	6.1
March .....	189,243	125,326	66.2	116,754	8,572	6.8	7.2	6.4
April .....	189,380	125,672	66.4	117,398	8,274	6.6	6.9	6.2
May .....	189,522	125,232	66.1	116,591	8,640	6.9	7.2	6.5

<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.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	May 1991										
	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 .....	189,522	124,857	65.9	116,624	8,233	6.6	64,665	26,206	8,627	3,857	25,974
16 to 19 years .....	13,432	6,713	50.0	5,396	1,318	19.6	6,719	424	5,666	52	576
16 to 17 years .....	6,592	2,481	37.6	1,976	505	20.4	4,110	107	3,810	19	175
18 to 19 years .....	6,840	4,232	61.9	3,420	612	19.2	2,606	317	1,856	34	402
20 to 24 years .....	17,840	13,536	75.9	12,017	1,519	11.2	4,304	1,528	1,784	114	878
25 to 54 years .....	106,925	89,355	83.6	84,559	4,796	5.4	17,570	11,650	1,145	1,587	3,187
25 to 34 years .....	42,431	35,440	83.5	33,137	2,304	6.5	6,991	4,726	750	358	1,156
25 to 29 years .....	20,346	17,026	83.7	15,845	1,181	6.9	3,320	2,186	457	134	543
30 to 34 years .....	22,085	18,414	83.4	17,292	1,123	6.1	3,670	2,540	293	224	613
35 to 44 years .....	38,608	32,908	85.2	31,303	1,605	4.9	5,700	3,875	310	587	927
35 to 39 years .....	20,302	17,217	84.8	16,279	938	5.4	3,085	2,139	161	293	492
40 to 44 years .....	18,306	15,691	85.7	15,024	667	4.3	2,615	1,736	149	295	435
45 to 54 years .....	25,886	21,007	81.2	20,119	888	4.2	4,879	3,049	85	641	1,104
45 to 49 years .....	14,157	11,789	83.3	11,290	499	4.2	2,368	1,517	58	295	498
50 to 54 years .....	11,729	9,218	78.6	8,829	389	4.2	2,511	1,532	27	346	606
55 to 64 years .....	21,177	11,673	55.1	11,195	477	4.1	9,504	4,274	12	880	4,337
55 to 59 years .....	10,547	6,955	65.9	6,656	299	4.3	3,592	1,858	10	474	1,250
60 to 64 years .....	10,629	4,718	44.4	4,539	178	3.8	5,912	2,416	3	406	3,087
65 years and over .....	30,148	3,580	11.9	3,458	123	3.4	26,568	8,330	19	1,224	16,995
65 to 69 years .....	10,138	2,199	21.7	2,122	77	3.5	7,939	2,533	13	298	5,098
70 to 74 years .....	8,115	851	10.5	821	30	3.6	7,264	2,288	2	268	4,706
75 years and over .....	11,895	530	4.5	515	15	2.8	11,365	3,509	4	658	7,193
<b>Men</b>											
16 years and over .....	90,417	68,183	75.4	63,499	4,684	6.9	22,234	658	4,302	2,083	15,190
16 to 19 years .....	6,781	3,534	52.1	2,778	755	21.4	3,248	36	2,888	33	291
16 to 17 years .....	3,383	1,319	39.0	1,047	272	20.6	2,064	6	1,940	14	104
18 to 19 years .....	3,398	2,214	65.2	1,731	483	21.8	1,184	29	948	19	188
20 to 24 years .....	8,707	7,145	82.1	6,359	786	11.0	1,562	34	936	73	518
25 to 54 years .....	52,326	48,734	93.1	45,980	2,754	5.7	3,592	327	471	1,031	1,763
25 to 34 years .....	20,875	19,573	93.8	18,279	1,294	6.6	1,302	112	330	248	612
25 to 29 years .....	9,975	9,340	93.6	8,687	652	7.0	635	57	206	88	284
30 to 34 years .....	10,900	10,233	93.9	9,591	642	6.3	667	55	124	160	328
35 to 44 years .....	18,898	17,800	94.2	16,873	926	5.2	1,098	91	111	382	515
35 to 39 years .....	9,971	9,403	94.3	8,862	542	5.8	567	44	56	194	274
40 to 44 years .....	8,928	8,396	94.1	8,012	385	4.6	531	48	55	188	241
45 to 54 years .....	12,553	11,361	90.5	10,828	533	4.7	1,192	123	31	401	637
45 to 49 years .....	6,880	6,312	91.7	6,018	294	4.7	568	64	22	199	282
50 to 54 years .....	5,673	5,050	89.0	4,811	239	4.7	624	60	8	202	354
55 to 64 years .....	10,028	6,703	66.8	6,383	321	4.8	3,325	61	1	493	2,770
55 to 59 years .....	5,033	3,948	78.4	3,734	214	5.4	1,086	32	1	269	784
60 to 84 years .....	4,995	2,756	55.2	2,649	107	3.9	2,239	30	-	224	1,985
65 years and over .....	12,574	2,067	16.4	1,999	68	3.3	10,507	200	6	453	9,848
65 to 69 years .....	4,585	1,256	27.4	1,217	38	3.1	3,330	44	4	131	3,151
70 to 74 years .....	3,548	489	13.8	471	18	3.7	3,058	70	2	127	2,860
75 years and over .....	4,441	322	7.3	310	12	3.7	4,119	86	-	196	3,837
<b>Women</b>											
16 years and over .....	99,105	56,674	57.2	53,125	3,548	6.3	42,431	25,548	4,325	1,774	10,784
16 to 19 years .....	6,650	3,179	47.8	2,617	562	17.7	3,471	388	2,778	20	285
16 to 17 years .....	3,208	1,162	36.2	929	233	20.1	2,046	101	1,869	5	71
18 to 19 years .....	3,442	2,017	58.6	1,688	329	16.3	1,424	288	908	15	214
20 to 24 years .....	9,133	6,391	70.0	5,659	733	11.5	2,742	1,494	847	41	380
25 to 54 years .....	54,598	40,621	74.4	38,578	2,043	5.0	13,978	11,323	674	556	1,424
25 to 34 years .....	21,556	15,867	73.6	14,858	1,009	6.4	5,689	4,613	421	111	544
25 to 29 years .....	10,371	7,686	74.1	7,158	528	6.9	2,685	2,129	252	46	259
30 to 34 years .....	11,185	8,181	73.1	7,700	481	5.9	3,004	2,485	169	64	286
35 to 44 years .....	19,710	15,108	76.7	14,430	679	4.5	4,601	3,784	200	206	412
35 to 39 years .....	10,331	7,813	75.6	7,417	396	5.1	2,518	2,096	105	99	218
40 to 44 years .....	9,379	7,295	77.8	7,012	282	3.9	2,084	1,686	94	107	194
45 to 54 years .....	13,333	9,645	72.3	9,291	355	3.7	3,687	2,926	54	240	467
45 to 49 years .....	7,277	5,477	75.3	5,272	205	3.7	1,800	1,453	35	96	215
50 to 54 years .....	6,056	4,168	68.8	4,018	150	3.6	1,887	1,473	19	144	252
55 to 64 years .....	11,148	4,970	44.6	4,813	157	3.2	6,179	4,213	12	387	1,568
55 to 59 years .....	5,514	3,008	54.5	2,923	85	2.8	2,506	1,826	9	205	466
60 to 84 years .....	5,634	1,962	34.8	1,890	72	3.7	3,673	2,386	3	182	1,102
65 years and over .....	17,574	1,513	8.6	1,459	54	3.6	16,061	8,130	14	770	7,147
65 to 69 years .....	5,553	943	17.0	904	39	4.1	4,610	2,489	9	167	1,945
70 to 74 years .....	4,568	362	7.9	349	12	3.4	4,206	2,218	-	141	1,846
75 years and over .....	7,453	208	2.8	205	3	1.3	7,246	3,423	4	462	3,356

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 1991										
	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 .....	161,357	107,285	66.5	101,018	6,266	5.8	54,072	22,366	6,258	2,891	22,557
16 to 19 years .....	10,722	5,825	54.3	4,774	1,051	18.0	4,897	302	4,115	40	440
16 to 17 years .....	5,250	2,198	41.9	1,774	424	19.3	3,052	77	2,841	12	122
18 to 19 years .....	5,473	3,627	66.3	3,000	627	17.3	1,846	225	1,275	28	318
20 to 24 years .....	14,683	11,461	78.1	10,385	1,076	9.4	3,222	1,189	1,346	75	612
25 to 54 years .....	90,556	76,550	84.5	72,915	3,635	4.7	14,006	9,644	774	1,144	2,444
25 to 34 years .....	35,480	30,034	84.6	28,302	1,732	5.8	5,447	3,817	509	260	861
25 to 29 years .....	16,914	14,398	85.1	13,504	894	6.2	2,516	1,712	308	98	398
30 to 34 years .....	18,566	15,636	84.2	14,798	838	5.4	2,930	2,104	201	161	464
35 to 44 years .....	32,864	28,290	86.1	27,101	1,189	4.2	4,574	3,256	205	425	688
35 to 39 years .....	17,169	14,705	85.6	14,058	647	4.4	2,464	1,786	95	214	369
40 to 44 years .....	15,695	13,585	86.6	13,043	542	4.0	2,110	1,470	110	212	319
45 to 54 years .....	22,211	18,226	82.1	17,512	714	3.9	3,985	2,571	60	459	895
45 to 49 years .....	12,159	10,226	84.1	9,841	384	3.8	1,934	1,279	41	227	386
50 to 54 years .....	10,052	8,001	79.6	7,671	330	4.1	2,051	1,292	19	232	509
55 to 64 years .....	18,400	10,257	55.7	9,846	411	4.0	8,144	3,690	8	649	3,797
55 to 59 years .....	9,089	6,110	67.2	5,856	254	4.2	2,980	1,587	8	323	1,062
60 to 64 years .....	9,311	4,147	44.5	3,990	157	3.8	5,164	2,103	-	327	2,734
65 years and over .....	26,995	3,192	11.8	3,099	93	2.9	23,803	7,541	15	983	15,265
65 to 69 years .....	8,955	1,939	21.6	1,884	55	2.8	7,017	2,235	9	244	4,528
70 to 74 years .....	7,289	775	10.6	752	23	3.0	6,514	2,080	3	209	4,222
75 years and over .....	10,750	478	4.4	463	15	3.2	10,272	3,226	3	529	6,514
<b>Men</b>											
16 years and over .....	77,600	59,270	76.4	55,654	3,616	6.1	18,329	447	3,136	1,594	13,153
16 to 19 years .....	5,417	3,064	56.6	2,470	593	19.4	2,353	20	2,109	28	197
16 to 17 years .....	2,690	1,174	43.6	947	227	19.3	1,516	4	1,444	8	61
18 to 19 years .....	2,727	1,890	69.3	1,523	367	19.4	837	16	665	19	136
20 to 24 years .....	7,216	6,110	84.7	5,543	567	9.3	1,106	9	718	43	336
25 to 54 years .....	44,895	42,283	94.2	40,151	2,132	5.0	2,612	211	306	774	1,321
25 to 34 years .....	17,683	16,791	95.0	15,764	1,027	6.1	892	64	226	175	427
25 to 29 years .....	8,400	7,966	94.8	7,435	531	6.7	433	29	145	63	197
30 to 34 years .....	9,284	8,825	95.1	8,329	496	5.6	459	35	81	112	230
35 to 44 years .....	16,320	15,528	95.2	14,840	688	4.4	791	61	60	292	379
35 to 39 years .....	8,556	8,139	95.1	7,755	385	4.7	417	33	27	150	207
40 to 44 years .....	7,763	7,389	95.2	7,086	303	4.1	374	28	33	142	172
45 to 54 years .....	10,892	9,964	91.5	9,546	418	4.2	928	86	20	307	515
45 to 49 years .....	5,979	5,547	92.8	5,332	215	3.9	433	43	13	158	219
50 to 54 years .....	4,913	4,417	89.9	4,214	203	4.6	495	43	7	149	296
55 to 64 years .....	8,775	5,944	67.7	5,670	274	4.6	2,831	42	1	372	2,417
55 to 59 years .....	4,373	3,491	79.8	3,312	179	5.1	882	24	1	198	659
60 to 64 years .....	4,402	2,453	55.7	2,358	95	3.9	1,949	18	-	174	1,757
65 years and over .....	11,296	1,869	16.5	1,819	50	2.7	9,427	166	2	377	8,882
65 to 69 years .....	4,090	1,129	27.6	1,103	26	2.3	2,961	35	-	108	2,617
70 to 74 years .....	3,201	446	13.9	435	12	2.6	2,755	58	2	106	2,589
75 years and over .....	4,005	293	7.3	281	12	4.1	3,711	73	-	162	3,476
<b>Women</b>											
16 years and over .....	83,757	48,014	57.3	45,364	2,650	5.5	35,743	21,918	3,122	1,297	9,405
16 to 19 years .....	5,305	2,761	52.1	2,303	458	16.6	2,544	282	2,006	13	243
16 to 17 years .....	2,560	1,024	40.0	827	198	19.3	1,535	73	1,397	4	61
18 to 19 years .....	2,745	1,737	63.3	1,476	261	15.0	1,008	209	609	8	182
20 to 24 years .....	7,467	5,351	71.7	4,842	509	9.5	2,116	1,180	628	31	276
25 to 54 years .....	45,661	34,266	75.0	32,764	1,502	4.4	11,394	9,433	468	370	1,123
25 to 34 years .....	17,797	13,243	74.4	12,538	705	5.3	4,554	3,753	283	85	434
25 to 29 years .....	8,515	6,432	75.5	6,068	363	5.6	2,083	1,684	163	36	201
30 to 34 years .....	9,282	6,811	73.4	6,469	342	5.0	2,471	2,069	120	49	234
35 to 44 years .....	16,545	12,761	77.1	12,261	501	3.9	3,783	3,196	145	133	309
35 to 39 years .....	8,613	6,566	76.2	6,303	262	4.0	2,047	1,753	68	64	162
40 to 44 years .....	7,932	6,196	78.1	5,958	238	3.8	1,736	1,442	77	70	147
45 to 54 years .....	11,319	8,262	73.0	7,966	297	3.6	3,057	2,485	40	152	380
45 to 49 years .....	6,180	4,679	75.7	4,510	169	3.6	1,501	1,236	28	69	167
50 to 54 years .....	5,139	3,583	69.7	3,456	127	3.6	1,556	1,249	12	83	213
55 to 64 years .....	9,625	4,313	44.8	4,176	137	3.2	5,313	3,648	7	277	1,380
55 to 59 years .....	4,716	2,618	55.5	2,543	75	2.9	2,098	1,563	7	125	403
60 to 64 years .....	4,909	1,695	34.5	1,632	62	3.7	3,215	2,085	-	153	977
65 years and over .....	15,698	1,323	8.4	1,280	43	3.3	14,376	7,375	12	606	6,382
65 to 69 years .....	4,865	809	16.6	781	28	3.5	4,056	2,200	9	136	1,711
70 to 74 years .....	4,088	329	8.0	317	12	3.6	3,759	2,022	1	103	1,633
75 years and over .....	6,745	185	2.7	182	3	1.6	6,560	3,153	2	367	3,038

**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 1991										
	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 .....	21,569	13,394	62.1	11,698	1,696	12.7	8,175	2,938	1,671	880	2,685
16 to 19 years .....	2,130	694	32.6	458	236	34.0	1,436	110	1,202	9	114
16 to 17 years .....	1,031	215	20.8	148	67	31.2	816	25	741	3	46
18 to 19 years .....	1,098	479	43.6	310	169	35.2	619	85	461	6	68
20 to 24 years .....	2,442	1,666	68.2	1,262	404	24.3	776	288	245	35	208
25 to 54 years .....	12,286	9,644	78.5	8,664	980	10.2	2,642	1,441	219	398	584
25 to 34 years .....	5,337	4,202	78.7	3,700	502	11.9	1,135	674	150	80	232
25 to 29 years .....	2,642	2,046	77.5	1,796	250	12.2	595	368	85	31	111
30 to 34 years .....	2,696	2,156	80.0	1,903	252	11.7	540	305	85	49	120
35 to 44 years .....	4,259	3,426	80.4	3,085	341	10.0	833	418	63	152	201
35 to 39 years .....	2,341	1,881	80.3	1,640	240	12.8	461	242	42	77	100
40 to 44 years .....	1,918	1,546	80.6	1,445	101	6.5	373	177	20	75	100
45 to 54 years .....	2,689	2,016	75.0	1,880	137	6.8	673	349	6	166	152
45 to 49 years .....	1,428	1,119	78.4	1,029	90	8.0	309	163	5	63	78
50 to 54 years .....	1,261	897	71.1	651	47	5.2	364	166	1	103	74
55 to 64 years .....	2,155	1,079	50.1	1,029	50	4.7	1,076	444	1	216	416
55 to 59 years .....	1,119	639	57.2	606	34	5.3	479	197	-	142	141
60 to 64 years .....	1,037	440	42.4	423	17	3.8	597	247	1	74	274
65 years and over .....	2,556	311	12.2	286	25	8.1	2,245	655	5	222	1,364
65 to 69 years .....	917	214	23.3	195	19	8.8	703	239	4	46	414
70 to 74 years .....	679	56	8.2	49	6	( <sup>1</sup> )	623	172	-	54	398
75 years and over .....	960	41	4.3	41	-	( <sup>1</sup> )	919	243	2	122	552
<b>Men</b>											
16 years and over .....	9,693	6,642	68.5	5,729	913	13.8	3,051	176	785	441	1,648
16 to 19 years .....	1,069	373	34.8	231	142	38.0	897	15	592	2	67
16 to 17 years .....	516	107	20.7	73	34	31.8	409	2	364	3	41
18 to 19 years .....	553	268	48.0	158	108	40.5	288	13	228	-	47
20 to 24 years .....	1,111	816	73.4	619	197	24.2	295	19	106	26	145
25 to 54 years .....	5,502	4,735	86.1	4,214	521	11.0	787	99	84	227	358
25 to 34 years .....	2,409	2,101	87.2	1,868	233	11.1	308	46	53	58	151
25 to 29 years .....	1,195	1,050	87.9	949	101	9.6	145	26	27	23	69
30 to 34 years .....	1,215	1,051	86.5	920	131	12.5	163	20	26	36	82
35 to 44 years .....	1,905	1,648	86.5	1,452	197	11.9	256	26	29	87	115
35 to 39 years .....	1,048	926	88.4	797	129	13.9	122	8	17	43	55
40 to 44 years .....	856	722	84.3	654	68	9.4	134	18	12	44	60
45 to 54 years .....	1,188	986	82.9	894	92	9.3	203	26	2	82	93
45 to 49 years .....	633	533	84.2	467	68	12.4	100	15	2	37	46
50 to 54 years .....	555	452	81.5	427	25	5.6	103	12	-	45	46
55 to 64 years .....	975	563	57.7	526	36	6.5	412	18	-	114	281
55 to 59 years .....	508	340	67.0	313	27	7.9	168	8	-	66	94
60 to 64 years .....	467	222	47.6	213	10	4.3	245	10	-	48	187
65 years and over .....	1,035	156	15.0	138	17	11.1	879	26	4	73	777
65 to 69 years .....	384	101	26.2	89	12	11.5	283	8	4	21	250
70 to 74 years .....	293	31	10.7	26	6	( <sup>1</sup> )	262	9	-	19	235
75 years and over .....	357	23	6.5	23	-	( <sup>1</sup> )	334	9	-	33	292
<b>Women</b>											
16 years and over .....	11,876	6,752	56.9	5,970	782	11.6	5,124	2,761	886	439	1,037
16 to 19 years .....	1,060	321	30.3	227	94	29.3	739	95	610	7	27
16 to 17 years .....	515	108	21.0	75	33	30.7	407	23	377	1	5
18 to 19 years .....	545	214	39.2	152	61	28.7	332	71	233	6	22
20 to 24 years .....	1,331	850	63.9	643	207	24.4	481	270	139	9	63
25 to 54 years .....	6,783	4,909	72.4	4,450	459	9.4	1,674	1,342	135	172	225
25 to 34 years .....	2,928	2,101	71.8	1,831	270	12.8	827	627	97	22	81
25 to 29 years .....	1,447	996	68.9	848	149	14.9	450	342	58	9	42
30 to 34 years .....	1,461	1,105	74.6	984	121	11.0	376	285	39	13	39
35 to 44 years .....	2,355	1,778	75.5	1,633	145	8.1	577	392	34	65	86
35 to 39 years .....	1,293	954	73.8	843	111	11.7	339	234	25	34	46
40 to 44 years .....	1,062	623	77.6	790	33	4.0	238	158	9	31	40
45 to 54 years .....	1,501	1,030	68.7	986	45	4.4	470	323	4	85	59
45 to 49 years .....	795	586	73.7	562	24	4.1	209	146	3	27	31
50 to 54 years .....	706	445	63.0	424	21	4.8	261	175	1	58	27
55 to 64 years .....	1,180	516	43.7	502	14	2.7	664	426	1	102	135
55 to 59 years .....	611	299	49.0	292	7	2.3	312	189	-	76	47
60 to 64 years .....	569	217	38.2	210	7	3.2	352	237	1	26	88
65 years and over .....	1,521	155	10.2	147	8	5.1	1,366	629	2	149	587
65 to 69 years .....	533	113	21.2	106	7	6.5	420	231	-	25	164
70 to 74 years .....	386	24	6.3	24	1	( <sup>1</sup> )	362	163	-	35	164
75 years and over .....	603	18	3.0	18	-	( <sup>1</sup> )	565	235	2	89	259

<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 1991								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 .....	28,165	17,572	62.4	15,606	257	15,349	1,966	11.2	10,593
16 to 19 years .....	2,709	888	32.8	622	11	611	266	30.0	1,821
16 to 17 years .....	1,342	283	21.1	202	6	197	81	28.7	1,059
18 to 19 years .....	1,367	605	44.2	420	5	415	185	30.6	763
20 to 24 years .....	3,157	2,075	65.7	1,632	25	1,607	443	21.3	1,082
25 to 54 years .....	16,369	12,805	78.2	11,644	173	11,470	1,162	9.1	3,564
25 to 34 years .....	6,951	5,407	77.8	4,835	86	4,749	572	10.6	1,544
25 to 29 years .....	3,432	2,628	76.6	2,341	37	2,304	287	10.9	804
30 to 34 years .....	3,519	2,779	79.0	2,493	49	2,444	285	10.3	740
35 to 44 years .....	5,744	4,618	80.4	4,202	49	4,153	416	9.0	1,125
35 to 39 years .....	3,133	2,512	80.2	2,221	32	2,189	291	11.6	621
40 to 44 years .....	2,611	2,106	80.7	1,981	17	1,964	125	6.0	504
45 to 54 years .....	3,674	2,780	75.7	2,607	39	2,568	173	6.2	894
45 to 49 years .....	1,997	1,563	78.3	1,449	26	1,423	115	7.3	434
50 to 54 years .....	1,677	1,217	72.6	1,158	13	1,145	59	4.8	460
55 to 64 years .....	2,776	1,416	51.0	1,350	24	1,326	66	4.7	1,360
55 to 59 years .....	1,458	846	58.0	801	15	786	45	5.3	612
60 to 64 years .....	1,318	570	43.3	549	9	540	21	3.7	748
65 years and over .....	3,154	388	12.3	359	24	335	29	7.5	2,766
65 to 69 years .....	1,183	260	22.0	238	12	225	23	8.7	923
70 to 74 years .....	826	76	9.2	69	1	68	7	9.1	750
75 years and over .....	1,145	52	4.5	52	10	42	-	( <sup>1</sup> )	1,093
<b>Men</b>									
16 years and over .....	12,817	8,913	69.5	7,845	218	7,627	1,068	12.0	3,904
16 to 19 years .....	1,364	470	34.5	308	10	298	162	34.5	894
16 to 17 years .....	693	146	21.0	100	5	96	46	31.2	548
18 to 19 years .....	671	324	48.3	208	5	203	117	35.9	347
20 to 24 years .....	1,491	1,035	69.4	815	21	795	220	21.2	456
25 to 54 years .....	7,431	6,451	86.8	5,829	146	5,683	621	9.6	980
25 to 34 years .....	3,192	2,782	87.2	2,514	77	2,437	268	9.6	410
25 to 29 years .....	1,575	1,374	87.2	1,252	34	1,218	122	8.8	202
30 to 34 years .....	1,617	1,408	87.1	1,262	43	1,219	146	10.4	208
35 to 44 years .....	2,579	2,271	88.1	2,033	40	1,993	238	10.5	307
35 to 39 years .....	1,414	1,264	89.4	1,107	26	1,081	157	12.4	150
40 to 44 years .....	1,164	1,007	86.5	926	14	912	81	8.1	157
45 to 54 years .....	1,661	1,397	84.1	1,282	29	1,253	115	8.3	263
45 to 49 years .....	900	765	85.0	686	20	666	79	10.4	135
50 to 54 years .....	761	632	83.1	596	9	587	36	5.7	129
55 to 64 years .....	1,253	759	60.6	712	17	695	47	6.2	494
55 to 59 years .....	660	456	69.1	421	10	411	35	7.7	204
60 to 64 years .....	593	303	51.1	291	7	284	12	3.9	290
65 years and over .....	1,278	198	15.5	180	24	156	18	9.2	1,080
65 to 69 years .....	495	126	25.5	115	13	102	12	9.4	369
70 to 74 years .....	346	43	12.4	36	1	35	6	( <sup>1</sup> )	303
75 years and over .....	436	29	6.6	29	10	19	-	( <sup>1</sup> )	408
<b>Women</b>									
16 years and over .....	15,348	8,659	56.4	7,761	39	7,722	898	10.4	6,688
16 to 19 years .....	1,345	418	31.1	314	1	313	104	24.9	927
16 to 17 years .....	649	138	21.2	102	1	101	36	25.9	511
18 to 19 years .....	696	280	40.3	212	-	212	68	24.4	416
20 to 24 years .....	1,666	1,040	62.4	817	5	812	223	21.5	626
25 to 54 years .....	8,938	6,354	71.1	5,814	27	5,787	540	8.5	2,583
25 to 34 years .....	3,759	2,624	69.8	2,320	9	2,311	304	11.6	1,135
25 to 29 years .....	1,857	1,254	67.5	1,089	3	1,086	165	13.2	603
30 to 34 years .....	1,902	1,370	72.0	1,231	6	1,225	139	10.2	532
35 to 44 years .....	3,165	2,347	74.1	2,169	9	2,160	178	7.6	818
35 to 39 years .....	1,719	1,248	72.6	1,114	6	1,109	134	10.7	471
40 to 44 years .....	1,446	1,099	76.0	1,055	3	1,052	44	4.0	348
45 to 54 years .....	2,014	1,383	68.7	1,325	9	1,316	58	4.2	631
45 to 49 years .....	1,097	798	72.7	763	6	757	35	4.4	299
50 to 54 years .....	917	585	63.8	562	3	559	23	3.9	332
55 to 64 years .....	1,523	657	43.1	637	7	630	20	3.0	866
55 to 59 years .....	798	390	48.8	379	4	375	10	2.6	408
60 to 64 years .....	725	267	36.9	258	3	255	9	3.6	458
65 years and over .....	1,876	190	10.1	179	-	179	11	5.8	1,686
65 to 69 years .....	688	134	19.5	123	-	123	11	8.0	554
70 to 74 years .....	480	33	6.9	33	-	33	1	( <sup>1</sup> )	447
75 years and over .....	708	23	3.2	23	-	23	-	( <sup>1</sup> )	685

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status and race	Total		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years	
	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991
<b>TOTAL</b>								
Civilian noninstitutional population .....	187,828	189,522	82,581	83,636	91,414	92,454	13,832	13,432
Civilian labor force .....	124,640	124,857	64,278	64,650	53,103	53,494	7,258	6,713
Percent of population .....	66.4	65.9	77.8	77.3	58.1	57.9	52.5	50.0
Employed .....	118,277	116,624	61,417	60,721	50,742	50,508	6,118	5,396
Agriculture .....	3,452	3,431	2,481	2,475	713	679	258	277
Nonagricultural industries .....	114,825	113,194	58,936	58,246	50,029	49,830	5,860	5,118
Unemployed .....	6,363	8,233	2,861	3,929	2,362	2,986	1,141	1,318
Unemployment rate .....	5.1	6.6	4.5	6.1	4.4	5.6	15.7	19.6
Not in labor force .....	63,188	64,665	18,303	18,986	38,311	38,960	6,574	6,719
<b>White</b>								
Civilian noninstitutional population .....	160,271	161,357	71,384	72,183	77,740	78,452	11,148	10,722
Civilian labor force .....	107,075	107,285	55,902	56,207	44,894	45,253	6,278	5,825
Percent of population .....	66.8	66.5	78.3	77.9	57.7	57.7	56.3	54.3
Employed .....	102,350	101,018	53,739	53,184	43,208	43,061	5,403	4,774
Agriculture .....	3,236	3,174	2,308	2,267	674	640	254	267
Nonagricultural industries .....	99,114	97,844	51,431	50,917	42,534	42,421	5,149	4,507
Unemployed .....	4,724	6,266	2,163	3,023	1,686	2,192	875	1,051
Unemployment rate .....	4.4	5.8	3.9	5.4	3.8	4.8	13.9	18.0
Not in labor force .....	53,197	54,072	15,482	15,976	32,845	33,199	4,870	4,897
<b>Black</b>								
Civilian noninstitutional population .....	21,261	21,569	8,487	8,624	10,624	10,815	2,150	2,130
Civilian labor force .....	13,499	13,394	6,255	6,269	6,459	6,431	784	694
Percent of population .....	63.5	62.1	73.7	72.7	60.8	59.5	36.5	32.6
Employed .....	12,093	11,698	5,672	5,497	5,874	5,743	547	458
Agriculture .....	146	192	121	159	23	23	2	10
Nonagricultural industries .....	11,947	11,507	5,551	5,339	5,851	5,720	545	448
Unemployed .....	1,406	1,696	584	772	585	688	237	236
Unemployment rate .....	10.4	12.7	9.3	12.3	9.1	10.7	30.2	34.0
Not in labor force .....	7,763	8,175	2,232	2,354	4,165	4,385	1,366	1,436

**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 1991									
	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 .....	14,123	6,587	46.6	5,587	996	4,591	1,000	346	655	15.2
16 to 19 years .....	9,945	4,233	42.6	3,485	299	3,186	748	202	545	17.7
20 to 24 years .....	4,178	2,354	56.3	2,102	697	1,405	252	143	109	10.7
High school .....	8,399	3,388	40.3	2,753	157	2,596	636	149	486	18.8
College .....	5,723	3,199	55.9	2,834	839	1,995	364	196	168	11.4
Full-time students .....	4,885	2,438	49.9	2,141	412	1,729	297	169	128	12.2
Part-time students .....	839	761	90.7	693	427	266	68	27	41	8.9
Men, 16 to 24 years .....	7,093	3,242	45.7	2,715	550	2,165	527	194	333	16.3
16 to 19 years .....	5,074	2,168	42.7	1,747	173	1,575	420	125	296	19.4
20 to 24 years .....	2,018	1,075	53.3	968	378	590	107	69	38	10.0
High school .....	4,381	1,802	41.1	1,451	99	1,352	351	90	261	19.5
College .....	2,712	1,440	53.1	1,264	452	812	176	104	72	12.2
Full-time students .....	2,350	1,113	47.4	960	261	699	153	92	60	13.7
Part-time students .....	362	327	90.4	304	191	113	24	12	12	7.2
Women, 16 to 24 years .....	7,030	3,344	47.6	2,872	446	2,426	473	152	321	14.1
16 to 19 years .....	4,870	2,065	42.4	1,738	127	1,611	328	78	250	15.9
20 to 24 years .....	2,160	1,279	59.2	1,134	319	815	145	74	71	11.4
High school .....	4,019	1,586	39.5	1,302	59	1,243	285	60	225	17.9
College .....	3,011	1,758	58.4	1,570	387	1,183	188	92	96	10.7
Full-time students .....	2,535	1,325	52.3	1,181	151	1,030	144	77	68	10.9
Part-time students .....	477	433	90.9	389	236	153	44	15	29	10.1
<b>White</b>										
Total, 16 to 24 years .....	11,278	5,725	50.8	4,937	893	4,044	787	262	526	13.8
16 to 19 years .....	7,860	3,688	46.9	3,086	260	2,826	602	150	452	16.3
20 to 24 years .....	3,418	2,037	59.6	1,851	633	1,218	186	112	74	9.1
Men .....	5,709	2,850	49.9	2,431	500	1,931	419	154	266	14.7
Women .....	5,568	2,874	51.6	2,506	393	2,114	368	108	260	12.8
High school .....	6,553	2,947	45.0	2,442	138	2,303	505	102	403	17.1
College .....	4,725	2,778	58.8	2,496	755	1,741	282	159	123	10.2
Full-time students .....	4,020	2,126	52.9	1,893	375	1,518	234	140	94	11.0
Part-time students .....	705	651	92.4	603	380	223	48	20	28	7.4
<b>Black</b>										
Total, 16 to 24 years .....	2,072	615	29.7	439	80	359	176	76	100	28.7
16 to 19 years .....	1,608	409	25.4	282	31	251	127	47	80	31.0
20 to 24 years .....	464	206	44.4	157	49	107	49	29	20	24.0
Men .....	981	272	27.8	190	38	153	82	36	46	30.1
Women .....	1,091	342	31.4	248	42	206	94	41	54	27.5
High school .....	1,430	327	22.9	215	14	201	112	42	69	34.1
College .....	642	268	44.8	223	66	157	65	34	30	22.5
Full-time students .....	539	201	37.3	155	30	125	46	27	19	22.9
Part-time students .....	103	87	83.7	68	36	32	19	7	11	21.6
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	1,251	475	38.0	385	91	293	90	25	65	19.0
16 to 19 years .....	948	284	29.9	215	16	200	69	17	52	24.2
20 to 24 years .....	303	191	63.2	170	76	94	22	9	13	11.4
Men .....	614	249	40.5	200	50	150	49	12	37	19.7
Women .....	637	226	35.5	185	42	143	41	14	28	18.3
High school .....	864	250	29.0	180	25	156	70	17	54	28.0
College .....	387	225	58.0	204	67	138	20	9	11	9.0
Full-time students .....	293	137	46.7	126	17	110	11	5	6	7.8
Part-time students .....	95	88	92.6	78	50	28	10	4	6	10.9

See footnotes at end of table.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	May 1991									
	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 .....	17,149	13,662	79.7	11,826	9,765	2,061	1,836	1,596	240	13.4
16 to 19 years .....	3,487	2,480	71.1	1,911	1,290	620	570	479	91	23.0
20 to 24 years .....	13,662	11,182	81.8	9,915	8,474	1,441	1,266	1,117	149	11.3
Less than 4 years of high school .....	4,175	2,532	60.6	1,955	1,514	441	577	508	69	22.8
4 years of high school .....	8,037	6,750	84.0	5,913	4,978	935	837	743	94	12.4
1 to 3 years of college .....	3,442	2,977	86.5	2,629	2,086	543	348	280	68	11.7
4 years of college or more .....	1,495	1,403	93.8	1,329	1,187	142	74	65	9	5.3
<b>Men, 16 to 24 years .....</b>	<b>8,395</b>	<b>7,436</b>	<b>88.6</b>	<b>6,422</b>	<b>5,533</b>	<b>889</b>	<b>1,014</b>	<b>924</b>	<b>90</b>	<b>13.6</b>
16 to 19 years .....	1,707	1,366	80.0	1,031	746	285	335	282	53	24.5
20 to 24 years .....	6,689	6,070	90.8	5,391	4,787	604	679	643	36	11.2
Less than 4 years of high school .....	2,173	1,727	79.5	1,370	1,131	239	357	335	22	20.7
4 years of high school .....	4,028	3,896	91.8	3,240	2,857	382	456	430	26	12.3
1 to 3 years of college .....	1,552	1,407	90.6	1,236	1,023	213	171	131	40	12.2
4 years of college or more .....	842	606	94.3	577	522	55	29	28	1	4.8
<b>Women, 16 to 24 years .....</b>	<b>8,754</b>	<b>6,226</b>	<b>71.1</b>	<b>5,404</b>	<b>4,232</b>	<b>1,172</b>	<b>822</b>	<b>671</b>	<b>151</b>	<b>13.2</b>
16 to 19 years .....	1,780	1,114	62.6	879	544	335	235	197	38	21.1
20 to 24 years .....	6,974	5,112	73.3	4,525	3,688	837	587	475	113	11.5
Less than 4 years of high school .....	2,002	805	40.2	586	383	203	219	172	47	27.3
4 years of high school .....	4,009	3,054	76.2	2,673	2,121	553	381	314	67	12.5
1 to 3 years of college .....	1,890	1,571	83.1	1,394	1,063	330	177	149	28	11.3
4 years of college or more .....	853	797	93.4	752	665	87	45	37	8	5.8
<b>White</b>										
Total, 16 to 24 years .....	14,128	11,561	81.8	10,221	8,488	1,734	1,340	1,145	194	11.6
16 to 19 years .....	2,863	2,137	74.7	1,688	1,145	543	450	367	82	21.0
20 to 24 years .....	11,266	9,424	83.7	8,534	7,343	1,191	890	778	112	9.4
<b>Men .....</b>	<b>6,924</b>	<b>6,323</b>	<b>91.3</b>	<b>5,583</b>	<b>4,844</b>	<b>739</b>	<b>740</b>	<b>670</b>	<b>70</b>	<b>11.7</b>
<b>Women .....</b>	<b>7,205</b>	<b>5,239</b>	<b>72.7</b>	<b>4,839</b>	<b>3,644</b>	<b>995</b>	<b>600</b>	<b>476</b>	<b>124</b>	<b>11.4</b>
Less than 4 years of high school .....	3,317	2,156	65.0	1,724	1,350	374	433	375	58	20.1
4 years of high school .....	6,530	5,579	85.4	5,004	4,265	738	575	503	72	10.3
1 to 3 years of college .....	2,947	2,569	87.2	2,299	1,808	491	270	212	58	10.5
4 years of college or more .....	1,334	1,257	94.2	1,195	1,065	130	62	56	6	4.9
<b>Black</b>										
Total, 16 to 24 years .....	2,500	1,745	69.8	1,281	1,007	275	464	420	44	26.6
16 to 19 years .....	522	285	54.7	176	116	60	109	102	7	38.2
20 to 24 years .....	1,978	1,460	73.8	1,105	891	215	355	319	36	24.3
<b>Men .....</b>	<b>1,200</b>	<b>916</b>	<b>76.4</b>	<b>659</b>	<b>536</b>	<b>123</b>	<b>257</b>	<b>238</b>	<b>19</b>	<b>28.0</b>
<b>Women .....</b>	<b>1,300</b>	<b>829</b>	<b>63.8</b>	<b>622</b>	<b>471</b>	<b>151</b>	<b>207</b>	<b>183</b>	<b>25</b>	<b>25.0</b>
Less than 4 years of high school .....	715	317	44.3	176	122	54	141	130	10	44.4
4 years of high school .....	1,290	1,013	78.5	770	597	173	243	222	21	23.9
1 to 3 years of college .....	391	317	81.1	250	207	43	68	58	10	21.3
4 years of college or more .....	104	98	94.8	85	80	5	13	10	3	13.2
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,212	1,606	72.6	1,377	1,177	200	229	209	20	14.2
16 to 19 years .....	506	349	69.1	280	186	75	89	80	9	25.5
20 to 24 years .....	1,706	1,256	73.6	1,117	991	125	140	128	11	11.1
<b>Men .....</b>	<b>1,152</b>	<b>1,039</b>	<b>90.2</b>	<b>912</b>	<b>810</b>	<b>102</b>	<b>127</b>	<b>124</b>	<b>4</b>	<b>12.3</b>
<b>Women .....</b>	<b>1,059</b>	<b>566</b>	<b>53.5</b>	<b>465</b>	<b>367</b>	<b>98</b>	<b>101</b>	<b>85</b>	<b>16</b>	<b>17.9</b>
Less than 4 years of high school .....	1,228	800	65.1	674	575	99	126	112	14	15.7
4 years of high school .....	739	602	81.4	523	472	51	79	75	4	13.2
1 to 3 years of college .....	203	172	84.9	151	104	47	22	20	1	12.5
4 years of college or more .....	41	31	( <sup>2</sup> )	29	26	3	2	1	1	( <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.

**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 1990	May 1991	Total		Employed		Unemployed			
			May 1990	May 1991	May 1990	May 1991	Number		Percent of labor force	
							May 1990	May 1991	May 1990	May 1991
<b>VIETNAM-ERA VETERANS</b>										
Total, 35 years and over .....	7,623	7,777	6,930	7,039	6,696	6,738	234	301	3.4	4.3
35 to 49 years .....	6,523	6,497	6,164	6,145	5,947	5,865	217	280	3.5	4.6
35 to 39 years .....	1,446	1,183	1,338	1,101	1,290	1,022	49	79	3.6	7.2
40 to 44 years .....	3,326	3,185	3,199	3,017	3,091	2,903	109	115	3.4	3.8
45 to 49 years .....	1,751	2,129	1,626	2,026	1,567	1,940	59	86	3.6	4.3
50 years and over .....	1,100	1,280	767	895	749	874	17	21	2.3	2.4
<b>NONVETERANS</b>										
Total, 35 to 49 years .....	17,137	18,198	16,015	16,995	15,438	16,119	577	876	3.6	5.2
35 to 39 years .....	7,882	8,281	7,497	7,834	7,242	7,411	255	424	3.4	5.4
40 to 44 years .....	5,039	5,728	4,688	5,365	4,524	5,098	163	266	3.5	5.0
45 to 49 years .....	4,215	4,189	3,830	3,795	3,671	3,610	159	185	4.1	4.9

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Sex, age, and race	May 1991							
	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 .....	96,277	94,334	1,943	20,348	16,727	3,620	6,809	1,424
16 to 19 years .....	1,590	1,506	84	3,806	3,429	377	681	637
16 to 17 years .....	128	124	4	1,848	1,786	62	132	374
18 to 19 years .....	1,461	1,382	80	1,958	1,643	315	549	263
20 years and over .....	94,687	92,827	1,860	16,542	13,299	3,243	6,128	787
20 to 24 years .....	9,171	8,920	252	2,846	2,146	700	1,260	258
25 years and over .....	85,516	83,908	1,608	13,696	11,153	2,543	4,867	529
25 to 54 years .....	74,718	73,324	1,394	9,840	7,699	2,141	4,404	392
55 years and over .....	10,797	10,584	213	3,856	3,454	402	463	137
Men, 16 years and over .....	56,819	55,628	1,191	6,680	5,053	1,626	4,115	569
16 to 19 years .....	919	878	41	1,859	1,653	207	406	349
20 years and over .....	55,900	54,749	1,151	4,820	3,401	1,420	3,709	220
20 to 24 years .....	5,164	5,012	152	1,194	835	360	712	74
25 years and over .....	50,736	49,738	998	3,626	2,566	1,060	2,997	146
25 to 54 years .....	43,947	43,075	872	2,033	1,143	890	2,684	70
55 years and over .....	6,789	6,663	126	1,593	1,423	170	313	76
Women, 16 years and over .....	39,458	38,706	752	13,668	11,674	1,994	2,693	855
16 to 19 years .....	671	628	43	1,946	1,776	171	275	288
20 years and over .....	38,787	38,078	709	11,722	9,898	1,824	2,419	567
20 to 24 years .....	4,007	3,908	99	1,652	1,311	341	548	184
25 years and over .....	34,780	34,170	610	10,070	8,587	1,483	1,871	383
25 to 54 years .....	30,771	30,249	522	7,807	6,556	1,251	1,720	322
55 years and over .....	4,008	3,921	87	2,263	2,031	232	150	61
<b>White</b>								
Men, 16 years and over .....	49,882	48,857	1,024	5,772	4,476	1,296	3,167	449
16 to 19 years .....	815	776	39	1,656	1,477	178	300	293
20 years and over .....	49,067	48,082	985	4,117	2,999	1,118	2,867	156
20 to 24 years .....	4,529	4,397	133	1,014	726	288	523	43
25 years and over .....	44,538	43,685	853	3,103	2,273	830	2,344	113
25 to 54 years .....	38,509	37,765	743	1,642	964	679	2,078	54
55 years and over .....	6,029	5,920	109	1,460	1,309	151	265	59
Women, 16 years and over .....	33,168	32,568	600	12,196	10,562	1,634	1,948	702
16 to 19 years .....	590	552	38	1,713	1,557	156	217	241
20 years and over .....	32,578	32,016	562	10,483	9,005	1,478	1,731	461
20 to 24 years .....	3,447	3,364	83	1,395	1,132	263	366	143
25 years and over .....	29,131	28,652	480	9,088	7,873	1,215	1,365	318
25 to 54 years .....	25,690	25,276	414	7,074	6,042	1,032	1,240	263
55 years and over .....	3,442	3,376	66	2,014	1,831	183	125	55
<b>Black</b>								
Men, 16 years and over .....	5,064	4,940	123	665	387	278	816	98
16 to 19 years .....	83	82	2	148	124	24	94	47
20 years and over .....	4,980	4,859	122	517	263	254	721	51
20 to 24 years .....	490	474	17	128	62	66	179	18
25 years and over .....	4,490	4,385	105	389	202	188	542	33
25 to 54 years .....	3,930	3,838	92	284	108	176	505	16
55 years and over .....	560	547	13	105	94	11	37	17
Women, 16 years and over .....	4,868	4,738	131	1,102	805	296	662	120
16 to 19 years .....	63	58	5	164	151	12	54	40
20 years and over .....	4,805	4,680	125	938	654	284	607	80
20 to 24 years .....	449	437	12	194	123	70	169	38
25 years and over .....	4,356	4,243	113	744	530	214	439	42
25 to 54 years .....	3,923	3,830	93	528	352	176	423	36
55 years and over .....	433	413	20	217	179	38	16	6

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

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

(Numbers in thousands)

Family relationship	May 1991									
	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> .....	99,404	66.2	92,819	6,585	6.6	50,684	21,242	7,821	2,754	18,867
Husbands .....	39,835	77.5	38,245	1,591	4.0	11,539	240	162	979	10,159
With employed wife .....	26,700	92.0	25,747	953	3.6	2,314	111	71	345	1,786
With unemployed wife .....	1,090	90.7	933	157	14.4	112	-	7	33	73
With wife not in labor force .....	12,045	56.9	11,564	481	4.0	9,113	129	84	601	8,299
Wives .....	30,216	58.8	29,013	1,202	4.0	21,158	16,204	342	491	4,122
With employed husband .....	26,680	69.8	25,747	933	3.5	11,564	10,148	262	188	968
With unemployed husband .....	1,110	69.8	953	157	14.2	481	407	20	24	29
With husband not in labor force .....	2,425	21.0	2,314	112	4.6	9,113	5,649	60	280	3,125
Relatives in married-couple families .....	12,529	61.9	10,802	1,727	13.8	7,711	701	5,050	370	1,590
16 to 19 years .....	4,295	50.3	3,545	750	17.5	4,243	73	3,840	31	300
20 to 24 years .....	4,630	73.7	4,050	580	12.5	1,649	155	1,069	49	377
25 years and over .....	3,604	66.5	3,207	397	11.0	1,819	473	141	290	913
Women who maintain families .....	6,969	61.2	6,350	619	8.9	4,424	2,908	199	343	974
Relatives in families maintained by women .....	5,628	58.5	4,595	1,034	18.4	3,990	818	1,714	361	1,096
16 to 19 years .....	1,349	44.9	947	402	29.8	1,653	114	1,356	14	168
20 to 24 years .....	1,523	71.1	1,235	288	18.9	618	153	250	28	186
25 years and over .....	2,757	61.6	2,413	344	12.5	1,719	551	108	319	742
Men who maintain families .....	2,300	76.2	2,131	168	7.3	719	33	41	101	543
Relatives in families maintained by men .....	1,928	62.8	1,683	245	12.7	1,143	338	313	109	383
16 to 19 years .....	287	51.2	232	55	19.0	273	9	223	2	40
20 to 24 years .....	501	79.4	451	51	10.1	130	31	60	5	35
25 years and over .....	1,139	60.6	1,000	139	12.2	740	298	30	102	308

<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.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991
Total, 16 years and over .....	3,473	4,684	5.1	6.9	2,890	3,548	5.1	6.3
Married, spouse present .....	1,282	1,743	3.0	4.1	1,014	1,302	3.2	4.2
Widowed, divorced, or separated .....	450	646	6.1	8.5	615	705	5.4	6.3
Single (never married) .....	1,741	2,295	9.4	12.4	1,261	1,541	9.0	10.8
White, 16 years and over .....	2,626	3,616	4.4	6.1	2,099	2,650	4.4	5.5
Married, spouse present .....	1,035	1,460	2.8	3.9	841	1,095	3.0	3.9
Widowed, divorced, or separated .....	357	476	5.8	7.6	417	524	4.6	5.8
Single (never married) .....	1,234	1,680	8.0	10.9	840	1,031	7.6	9.2
Black, 16 years and over .....	722	913	10.8	13.8	684	782	10.0	11.6
Married, spouse present .....	191	219	5.9	7.1	125	155	5.1	6.5
Widowed, divorced, or separated .....	78	159	7.9	14.3	170	151	8.6	8.1
Single (never married) .....	452	535	18.6	22.1	389	475	16.2	18.9
Total, 25 years and over .....	2,226	3,143	3.9	5.5	1,802	2,253	3.9	4.8
Married, spouse present .....	1,221	1,652	3.0	4.1	878	1,126	3.0	3.8
Widowed, divorced, or separated .....	423	609	5.9	8.3	563	630	5.2	5.8
Single (never married) .....	581	882	6.3	9.2	361	497	5.5	7.2
White, 25 years and over .....	1,721	2,456	3.5	4.9	1,304	1,683	3.3	4.2
Married, spouse present .....	989	1,381	2.7	3.8	720	944	2.8	3.6
Widowed, divorced, or separated .....	334	442	5.6	7.3	380	465	4.4	5.3
Single (never married) .....	397	634	5.2	8.1	204	273	4.1	5.3
Black, 25 years and over .....	416	575	7.7	10.5	425	481	7.6	8.6
Married, spouse present .....	181	212	5.8	7.1	117	133	5.2	5.9
Widowed, divorced, or separated .....	76	155	7.8	14.3	156	137	8.1	7.5
Single (never married) .....	158	207	11.9	15.3	152	211	10.7	14.1



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991
Total, 16 years and over .....	6,363	8,233	5.1	6.6	5.1	6.9	5.1	6.3
Managerial and professional specialty .....	589	892	1.9	2.8	1.8	2.9	2.0	2.6
Executive, administrative, and managerial .....	294	511	2.0	3.3	1.7	3.2	2.3	3.5
Professional specialty .....	295	380	1.8	2.3	1.9	2.7	1.8	2.0
Technical, sales, and administrative support .....	1,444	1,977	3.7	5.2	3.4	5.1	3.9	5.3
Technicians and related support .....	113	152	2.8	4.0	2.5	4.5	3.1	3.5
Sales occupations .....	629	826	4.2	5.6	3.3	4.2	5.1	7.1
Administrative support, including clerical .....	702	998	3.6	5.1	4.0	7.1	3.5	4.6
Service occupations .....	1,125	1,263	6.7	7.4	6.7	8.1	6.8	7.0
Private household .....	53	67	6.7	8.4	( <sup>1</sup> )	( <sup>1</sup> )	6.5	8.2
Protective service .....	90	129	4.4	5.9	3.8	5.9	7.9	5.7
Service, except private household and protective .....	982	1,066	7.1	7.6	7.7	8.9	6.7	6.9
Precision production, craft, and repair .....	735	1,073	5.1	7.6	5.1	7.5	4.9	7.9
Mechanics and repairers .....	142	231	3.1	5.1	3.0	5.1	5.2	4.6
Construction trades .....	433	569	7.6	10.1	7.6	10.3	6.7	3.0
Other precision production, craft, and repair .....	160	273	3.9	6.7	3.7	6.0	4.7	9.1
Operators, fabricators, and laborers .....	1,530	1,856	8.0	9.8	7.8	9.2	8.5	11.5
Machine operators, assemblers, and inspectors .....	592	834	6.9	9.9	6.0	8.7	8.2	11.7
Transportation and material moving occupations .....	269	368	5.3	7.0	5.4	6.7	4.3	9.7
Handlers, equipment cleaners, helpers, and laborers .....	669	654	12.2	12.4	12.3	12.5	11.7	11.8
Construction laborers .....	175	178	17.6	20.4	17.2	20.4	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	493	477	11.0	10.8	10.9	10.6	11.2	11.7
Farming, forestry, and fishing .....	168	229	4.4	5.8	3.9	5.3	6.6	8.5
No previous work experience .....	753	902	-	-	-	-	-	-
16 to 19 years .....	506	579	-	-	-	-	-	-
20 to 24 years .....	157	198	-	-	-	-	-	-
25 years and over .....	90	125	-	-	-	-	-	-

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-13. Unemployed persons by industry and sex**

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991
Total, 16 years and over .....	6,363	8,233	5.1	6.6	5.1	6.9	5.1	6.3
Nonagricultural private wage and salary workers .....	4,907	6,399	5.3	6.9	5.4	7.3	5.1	6.4
Mining .....	28	49	3.7	6.3	3.7	7.5	3.6	1.4
Construction .....	658	810	10.3	13.4	10.6	13.8	6.7	8.2
Manufacturing .....	1,137	1,519	5.3	7.2	4.6	6.4	6.6	8.7
Durable goods .....	663	905	5.3	7.3	4.9	7.0	6.3	8.1
Lumber and wood products .....	64	75	8.4	10.2	8.2	10.3	9.9	9.7
Furniture and fixtures .....	38	51	5.5	8.5	4.6	7.6	7.3	10.8
Stone, clay, and glass products .....	38	51	6.2	8.9	7.1	9.2	3.6	7.8
Primary metal industries .....	51	53	5.3	6.5	5.0	6.1	7.4	9.0
Fabricated metal products .....	82	126	6.7	10.0	5.7	8.7	10.1	15.0
Machinery, except electrical .....	96	150	3.9	6.1	3.6	5.8	5.2	7.0
Electrical machinery, equipment, and supplies .....	101	134	4.9	6.7	4.9	7.3	4.7	5.8
Transportation equipment .....	131	171	5.0	6.7	5.0	5.9	4.8	9.4
Automobiles .....	75	96	6.0	7.9	5.6	7.2	7.5	10.6
Other transportation equipment .....	56	75	4.0	5.6	4.5	4.8	2.2	8.3
Professional and photographic equipment .....	19	33	2.8	4.2	1.6	3.7	4.4	4.8
Other durable goods industries .....	43	61	8.4	10.6	4.3	10.3	13.4	10.2
Nondurable goods .....	474	614	5.3	6.9	4.2	5.3	6.9	9.2
Food and kindred products .....	142	186	7.3	9.7	5.5	7.1	10.8	14.6
Textile mill products .....	29	47	4.0	6.7	3.8	4.2	4.3	9.9
Apparel and other textile products .....	108	93	9.5	8.8	8.6	6.3	9.7	9.5
Paper and allied products .....	24	36	3.3	4.6	2.5	4.8	5.5	4.2
Printing and publishing .....	66	81	3.6	4.5	2.9	4.3	4.5	4.8
Chemicals and allied products .....	37	66	2.6	4.7	2.0	3.7	4.0	6.7
Rubber and miscellaneous plastics products .....	42	64	5.3	7.8	5.8	6.6	4.3	10.2
Other nondurable goods industries .....	26	41	6.6	9.6	6.8	5.7	6.8	19.5
Transportation and public utilities .....	210	351	3.2	5.3	3.3	5.9	3.1	3.9
Transportation .....	165	275	4.5	7.3	4.2	7.8	5.2	5.7
Communications and other public utilities .....	45	75	1.6	2.7	1.8	3.0	1.3	2.2
Wholesale and retail trade .....	1,414	1,754	6.1	7.5	5.7	7.0	6.4	8.0
Wholesale trade .....	221	282	4.8	6.2	5.0	5.9	4.5	6.9
Retail trade .....	1,194	1,472	6.4	7.8	6.0	7.4	6.7	8.1
Finance, insurance, and real estate .....	188	309	2.5	4.3	2.2	4.3	2.7	4.3
Service industries .....	1,272	1,608	4.8	5.9	5.3	7.0	4.5	5.2
Professional services .....	507	614	3.4	3.9	3.7	4.9	3.2	3.6
Other service industries .....	765	994	6.7	8.5	6.5	8.5	6.9	8.5
Agricultural wage and salary workers .....	124	180	6.5	9.1	5.5	7.9	9.4	13.1
Government, self-employed, and unpaid family workers .....	579	751	2.0	2.6	1.9	2.6	2.0	2.5
No previous work experience .....	753	902	-	-	-	-	-	-

**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 1990	May 1991	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	6,363	8,233	2,861	3,929	2,362	2,986	1,141	1,318	4,724	6,266	1,406	1,696
Job losers .....	2,936	4,298	1,816	2,721	925	1,358	195	219	2,256	3,338	585	826
On layoff .....	822	1,124	532	703	252	364	38	57	675	964	130	141
Other job losers .....	2,114	3,174	1,285	2,018	673	994	157	162	1,581	2,374	455	684
Job leavers .....	887	921	372	382	384	366	130	174	677	733	170	161
Reentrants .....	1,845	2,217	591	738	902	1,056	351	424	1,333	1,645	437	499
New entrants .....	695	796	81	88	150	206	464	501	459	550	213	210
<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 .....	46.1	52.2	63.5	69.3	39.2	45.5	17.1	16.6	47.7	53.3	41.6	48.7
On layoff .....	12.9	13.7	18.6	17.9	10.7	12.2	3.4	4.3	14.3	15.4	9.3	8.3
Other job losers .....	33.2	38.6	44.9	51.4	28.5	33.3	13.7	12.3	33.5	37.9	32.4	40.4
Job leavers .....	13.9	11.2	13.0	9.7	16.3	12.2	11.4	13.2	14.3	11.7	12.1	9.5
Reentrants .....	29.0	26.9	20.7	18.8	38.2	35.4	30.8	32.2	28.2	26.3	31.1	29.4
New entrants .....	10.9	9.7	2.8	2.2	6.4	6.9	40.7	38.0	9.7	8.8	15.2	12.4
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	2.4	3.4	2.8	4.2	1.7	2.5	2.7	3.3	2.1	3.1	4.3	6.2
Job leavers .....	.7	.7	.6	.6	.7	.7	1.8	2.6	.6	.7	1.3	1.2
Reentrants .....	1.5	1.8	.9	1.1	1.7	2.0	4.8	6.3	1.2	1.5	3.2	3.7
New entrants .....	.6	.6	.1	.1	.3	.4	6.4	7.5	.4	.5	1.6	1.6

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Reason, sex, and age	May 1991						
	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 .....	8,233	100.0	42.4	29.0	28.6	16.0	12.6
Job losers .....	4,298	100.0	31.2	31.5	37.3	21.5	15.8
On layoff .....	1,124	100.0	44.3	29.6	26.1	19.4	6.7
Other job losers .....	3,174	100.0	26.5	32.2	41.3	22.3	19.0
Job leavers .....	921	100.0	47.7	31.3	21.0	9.8	11.2
Reentrants .....	2,217	100.0	57.0	23.2	19.7	10.6	9.1
New entrants .....	796	100.0	56.5	28.7	14.8	8.4	6.3
Men, 20 years and over .....	3,929	100.0	34.1	28.9	37.0	19.9	17.1
Job losers .....	2,721	100.0	29.7	29.7	40.6	22.6	18.0
On layoff .....	703	100.0	43.5	28.7	27.8	22.0	5.9
Other job losers .....	2,018	100.0	24.9	30.1	45.0	22.8	22.2
Job leavers .....	382	100.0	41.3	33.7	25.0	9.1	15.9
Reentrants .....	738	100.0	44.8	23.8	31.4	17.1	14.3
New entrants .....	88	100.0	47.4	27.6	25.0	5.4	19.6
Women, 20 years and over .....	2,986	100.0	45.4	30.4	24.2	14.2	10.0
Job losers .....	1,358	100.0	31.2	35.1	33.8	21.0	12.8
On layoff .....	364	100.0	41.4	34.0	24.7	15.6	9.0
Other job losers .....	994	100.0	27.4	35.5	37.1	23.0	14.2
Job leavers .....	366	100.0	50.4	31.4	18.2	10.6	7.6
Reentrants .....	1,056	100.0	60.4	23.4	16.2	8.2	8.0
New entrants .....	206	100.0	53.9	32.9	13.2	6.4	6.8
Both sexes, 16 to 19 years .....	1,318	100.0	60.6	26.1	13.3	8.6	4.6
Job losers .....	219	100.0	49.4	32.3	18.3	11.3	7.0
On layoff .....	57	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other job losers .....	162	100.0	41.0	38.9	20.0	11.2	8.8
Job leavers .....	174	100.0	56.1	25.6	18.3	10.0	8.3
Reentrants .....	424	100.0	70.0	21.9	8.2	5.3	2.8
New entrants .....	501	100.0	59.2	27.2	13.6	9.8	3.8

<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 1990	May 1991	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991
Total, 16 years and over .....	6,363	8,233	100.0	100.0	5,157	6,809	100.0	100.0
Less than 5 weeks .....	2,956	3,493	46.5	42.4	2,219	2,650	43.0	38.9
5 to 14 weeks .....	1,921	2,388	30.2	29.0	1,606	1,987	31.2	29.2
5 to 10 weeks .....	1,484	1,667	23.3	20.2	1,238	1,346	24.0	19.8
11 to 14 weeks .....	438	721	6.9	8.8	368	641	7.1	9.4
15 weeks and over .....	1,485	2,352	23.3	28.6	1,332	2,171	25.8	31.9
15 to 26 weeks .....	849	1,318	13.3	16.0	746	1,208	14.5	17.7
27 weeks and over .....	636	1,034	10.0	12.6	586	964	11.4	14.2
27 to 51 weeks .....	267	556	4.2	6.8	245	532	4.7	7.8
52 weeks and over .....	369	478	5.8	5.8	341	432	6.6	6.3
Average (mean) duration, in weeks .....	12.1	13.4	-	-	13.1	14.6	-	-
Median duration, in weeks .....	5.3	6.6	-	-	6.1	7.7	-	-

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

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								May 1990	May 1991	May 1990	May 1991
May 1991											
Total, 16 years and over .....	8,233	3,493	2,388	1,318	1,034	13.4	6.6	46.5	42.4	23.3	28.6
16 to 19 years .....	1,318	799	344	114	61	7.6	3.7	65.6	60.6	9.1	13.3
20 to 24 years .....	1,519	841	434	148	96	8.8	4.1	55.7	55.4	16.7	16.0
25 to 34 years .....	2,304	932	675	440	257	13.4	7.2	43.1	40.4	24.1	30.3
35 to 44 years .....	1,605	503	495	314	293	17.0	9.6	35.1	31.4	33.7	37.8
45 to 54 years .....	888	253	262	189	184	18.9	11.4	32.9	28.5	33.2	42.0
55 to 64 years .....	477	123	137	101	116	20.5	13.1	33.4	25.8	35.8	45.4
65 years and over .....	123	42	41	13	28	18.4	9.0	37.8	34.0	30.5	32.9
Men, 16 years and over .....	4,684	1,780	1,339	845	720	15.3	8.1	41.6	38.0	26.7	33.4
16 to 19 years .....	755	442	201	65	47	8.5	3.8	61.6	58.6	11.5	14.8
20 to 24 years .....	786	389	246	94	57	10.0	4.6	53.4	49.5	20.0	19.2
25 to 34 years .....	1,294	466	346	288	194	15.8	9.2	36.2	36.0	26.4	37.3
35 to 44 years .....	926	243	286	204	193	18.6	11.7	28.4	26.2	37.6	42.9
45 to 54 years .....	533	149	149	111	124	20.9	12.2	30.1	27.9	37.4	44.1
55 to 64 years .....	321	71	88	74	88	22.6	14.7	32.3	22.1	42.0	50.4
65 years and over .....	68	20	22	10	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	3,548	1,713	1,049	473	314	10.9	5.0	52.3	48.3	19.2	22.2
16 to 19 years .....	562	357	143	49	14	6.5	3.5	70.1	63.4	6.3	11.2
20 to 24 years .....	733	452	188	54	39	7.6	3.6	58.2	61.7	13.0	12.7
25 to 34 years .....	1,009	466	329	152	62	10.2	5.3	50.7	46.1	21.5	21.2
35 to 44 years .....	679	261	209	110	99	14.9	7.5	43.0	38.4	29.1	30.8
45 to 54 years .....	355	104	113	78	60	15.9	10.2	37.0	29.5	27.0	38.8
55 to 64 years .....	157	52	49	27	29	16.2	9.7	35.2	33.3	24.9	35.4
65 years and over .....	54	21	19	3	11	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	6,266	2,685	1,788	992	802	13.4	6.4	46.6	42.9	23.1	28.6
Men .....	3,616	1,404	992	647	573	15.4	7.8	42.1	38.8	26.8	33.7
Women .....	2,650	1,281	796	345	229	10.6	4.9	52.2	48.3	18.5	21.6
Black, 16 years and over .....	1,696	702	513	286	195	13.6	7.1	46.4	41.4	24.1	28.4
Men .....	913	317	304	172	121	14.9	8.7	40.6	34.7	26.5	32.0
Women .....	782	385	209	114	74	12.1	4.7	52.5	49.2	21.6	24.1
Men, 16 years and over:											
Married, spouse present .....	1,743	510	529	389	315	17.1	10.8	35.3	29.3	32.5	40.4
Widowed, divorced, or separated .....	646	213	170	139	124	18.6	10.3	31.8	33.0	33.1	40.7
Single (never married) .....	2,295	1,057	640	317	281	13.0	5.6	48.8	46.1	20.9	26.1
Women, 16 years and over:											
Married, spouse present .....	1,302	546	444	166	145	11.9	6.3	47.8	41.9	24.9	23.9
Widowed, divorced, or separated .....	705	303	197	131	75	13.2	6.9	45.0	43.0	23.1	29.2
Single (never married) .....	1,541	863	408	177	94	9.1	4.0	59.4	56.0	12.8	17.5

<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 1991							May 1990	May 1991	May 1990	May 1991
<b>OCCUPATION</b>											
Managerial and professional specialty .....	892	278	287	166	161	16.7	10.2	35.3	31.2	29.0	36.7
Technical, sales, and administrative support .....	1,977	869	559	299	250	12.9	6.2	44.5	44.0	25.3	27.8
Service occupations .....	1,263	638	360	142	122	11.2	4.5	52.4	50.5	16.4	20.9
Precision production, craft, and repair .....	1,073	380	319	215	159	14.2	8.5	39.7	35.4	29.8	34.9
Operators, fabricators, and laborers .....	1,856	684	537	380	255	15.3	8.6	42.7	38.9	27.3	34.2
Farming, forestry, and fishing .....	229	100	73	31	25	15.4	5.7	48.2	43.7	23.8	24.5
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	180	82	57	22	19	14.7	5.5	50.0	45.6	29.0	22.8
Construction .....	831	311	207	170	143	15.1	8.8	37.4	37.4	31.4	37.7
Manufacturing .....	1,531	482	523	314	212	15.2	9.5	36.7	31.5	29.4	34.4
Durable goods .....	912	285	292	208	128	15.9	10.1	36.3	31.3	33.9	36.8
Nondurable goods .....	619	197	231	106	84	14.2	8.7	37.2	31.8	23.0	30.9
Transportation and public utilities .....	388	146	87	94	62	15.3	10.2	40.9	37.6	19.3	40.2
Wholesale and retail trade .....	1,762	829	504	247	182	11.9	5.4	49.1	47.0	22.0	24.3
Finance and service industries .....	2,167	922	631	326	287	13.7	6.4	48.3	42.5	22.4	28.4
Public administration .....	182	75	57	23	27	13.4	6.6	45.4	41.2	17.7	27.5
No previous work experience .....	902	520	244	79	59	9.1	3.9	63.9	57.6	11.0	15.3

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

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

Sex, age, and race	May 1991								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	8,233	6,954	23.1	8.4	74.3	40.7	22.5	5.2	1.74
16 to 19 years .....	1,318	1,236	13.4	4.2	79.6	26.7	18.6	2.8	1.45
20 to 24 years .....	1,519	1,324	21.9	6.8	76.6	41.0	20.6	3.9	1.71
25 to 34 years .....	2,304	1,919	28.8	9.2	72.2	45.3	23.0	5.3	1.84
35 to 44 years .....	1,605	1,262	22.9	10.2	74.1	43.4	27.9	8.3	1.87
45 to 54 years .....	888	710	27.3	10.3	71.9	45.0	23.3	5.6	1.83
55 to 64 years .....	477	398	22.9	12.5	68.0	43.5	21.5	6.6	1.75
65 years and over .....	123	105	21.8	14.7	61.0	42.7	16.6	4.7	1.62
<b>Men, 16 years and over</b> .....	4,684	3,866	24.8	8.4	75.9	39.7	26.0	5.8	1.81
16 to 19 years .....	755	713	14.7	4.1	80.8	29.9	23.1	1.6	1.54
20 to 24 years .....	786	668	24.2	8.3	77.7	39.3	24.7	4.3	1.79
25 to 34 years .....	1,294	1,036	30.8	9.1	75.2	46.8	26.9	5.5	1.94
35 to 44 years .....	926	711	25.5	9.6	76.0	38.8	29.8	10.4	1.90
45 to 54 years .....	533	412	27.8	10.6	73.6	42.1	24.9	7.0	1.86
55 to 64 years .....	321	266	25.3	9.6	69.2	37.3	26.5	7.2	1.75
65 years and over .....	68	60	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Women, 16 years and over</b> .....	3,548	3,089	20.9	8.5	72.2	41.9	18.0	4.5	1.66
16 to 19 years .....	562	522	11.8	4.2	78.0	22.4	12.5	4.5	1.33
20 to 24 years .....	733	655	19.6	5.3	75.5	42.7	16.3	3.5	1.63
25 to 34 years .....	1,009	884	26.4	9.3	68.7	43.6	18.3	5.0	1.71
35 to 44 years .....	679	552	19.6	11.0	71.7	49.3	25.5	5.6	1.83
45 to 54 years .....	355	299	26.6	10.0	69.6	49.0	21.1	3.7	1.80
55 to 64 years .....	157	132	18.2	18.3	65.5	55.9	11.6	5.5	1.75
65 years and over .....	54	45	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>White, 16 years and over</b> .....	6,266	5,162	22.3	8.8	75.2	42.4	22.5	5.9	1.77
Men .....	3,616	2,909	24.5	8.4	76.8	41.8	25.2	6.7	1.63
Women .....	2,650	2,253	19.5	9.2	73.2	43.1	18.9	4.7	1.69
<b>Black, 16 years and over</b> .....	1,696	1,544	25.7	7.0	71.8	34.9	22.2	3.3	1.65
Men .....	913	817	26.4	8.1	73.7	32.3	28.5	2.9	1.72
Women .....	782	727	24.8	5.7	69.7	37.8	15.1	3.8	1.57

<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 1991								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	8,233	6,954	23.1	8.4	74.3	40.7	22.5	5.2	1.74
Job losers <sup>1</sup> .....	4,298	3,143	29.0	10.9	73.8	46.5	27.0	6.0	1.93
Job leavers .....	921	883	23.2	7.1	76.9	38.0	20.0	3.2	1.68
Reentrants .....	2,217	2,135	18.9	7.4	71.8	37.0	17.0	5.6	1.58
New entrants .....	796	794	10.8	3.0	79.8	30.2	22.3	3.3	1.49
<b>Men, 16 years and over</b> .....	4,684	3,866	24.8	8.4	75.9	39.7	26.0	5.8	1.81
Job losers <sup>1</sup> .....	2,865	2,107	30.2	9.9	74.3	44.6	30.0	6.5	1.96
Job leavers .....	496	476	23.2	6.5	77.8	33.9	23.9	2.2	1.68
Reentrants .....	940	899	19.9	8.0	75.7	34.1	19.4	7.4	1.64
New entrants .....	384	384	8.8	3.0	82.8	33.6	22.5	2.5	1.53
<b>Women, 16 years and over</b> .....	3,548	3,089	20.9	8.5	72.2	41.9	18.0	4.5	1.66
Job losers <sup>1</sup> .....	1,434	1,036	26.6	12.9	72.8	50.5	20.7	5.1	1.89
Job leavers .....	425	407	23.1	7.7	75.9	42.9	15.5	4.5	1.70
Reentrants .....	1,278	1,235	18.1	6.9	68.9	39.2	15.3	4.3	1.53
New entrants .....	412	410	12.7	2.9	77.0	27.0	22.2	4.1	1.46

<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.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry and age	Total		Men		Women	
	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991
All industries .....	118,277	116,624	64,624	63,499	53,653	53,125
16 to 19 years .....	6,118	5,396	3,206	2,778	2,911	2,617
16 to 17 years .....	2,257	1,976	1,195	1,047	1,062	929
18 to 19 years .....	3,861	3,420	2,011	1,731	1,850	1,688
20 to 24 years .....	12,531	12,017	6,635	6,359	5,896	5,659
25 to 54 years .....	84,628	84,559	46,240	45,980	38,388	38,578
25 to 34 years .....	34,118	33,137	18,868	18,279	15,250	14,858
35 to 44 years .....	30,698	31,303	16,631	16,873	14,067	14,430
45 to 54 years .....	19,813	20,119	10,742	10,828	9,071	9,291
55 to 64 years .....	11,471	11,195	6,488	6,383	4,983	4,813
55 to 59 years .....	6,759	6,656	3,806	3,734	2,954	2,923
60 to 64 years .....	4,712	4,539	2,683	2,649	2,029	1,890
65 years and over .....	3,529	3,458	2,054	1,999	1,475	1,459
Agriculture .....	3,452	3,431	2,675	2,706	777	725
16 to 19 years .....	258	277	194	231	64	46
16 to 17 years .....	114	124	84	108	30	16
18 to 19 years .....	144	153	110	123	34	30
20 to 24 years .....	356	368	302	299	54	68
25 to 54 years .....	2,056	2,086	1,551	1,614	506	472
25 to 34 years .....	870	844	677	680	193	164
35 to 44 years .....	706	745	515	553	191	192
45 to 54 years .....	480	497	359	380	121	117
55 to 64 years .....	446	437	340	331	105	106
55 to 59 years .....	229	208	168	150	61	59
60 to 64 years .....	217	228	173	181	44	47
65 years and over .....	336	263	288	231	48	32
Nonagricultural industries .....	114,825	113,194	61,948	60,793	52,876	52,401
16 to 19 years .....	5,860	5,118	3,012	2,547	2,847	2,571
16 to 17 years .....	2,143	1,852	1,111	939	1,032	913
18 to 19 years .....	3,717	3,266	1,902	1,608	1,815	1,658
20 to 24 years .....	12,175	11,650	6,333	6,059	5,842	5,591
25 to 54 years .....	82,572	82,472	44,689	44,367	37,882	38,106
25 to 34 years .....	33,248	32,292	18,191	17,599	15,057	14,694
35 to 44 years .....	29,992	30,558	16,116	16,320	13,876	14,238
45 to 54 years .....	19,332	19,622	10,383	10,448	8,950	9,174
55 to 64 years .....	11,026	10,759	6,148	6,052	4,878	4,707
55 to 59 years .....	6,531	6,448	3,638	3,584	2,893	2,864
60 to 64 years .....	4,495	4,311	2,510	2,468	1,985	1,843
65 years and over .....	3,193	3,194	1,766	1,768	1,427	1,426



**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 1990	May 1991	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991
<b>Total</b> .....	118,277	116,624	64,624	63,499	61,417	60,721	53,653	53,125	50,742	50,508
<b>Managerial and professional specialty</b> .....	30,542	30,962	16,569	16,529	16,464	16,455	13,974	14,433	13,882	14,320
Executive, administrative, and managerial .....	14,733	14,850	8,828	8,836	8,786	8,806	5,905	6,014	5,866	5,965
Officials and administrators, public administration .....	597	566	366	302	366	302	230	264	230	264
Other executive, administrative, and managerial .....	10,178	10,384	6,493	6,582	6,461	6,557	3,684	3,802	3,658	3,766
Management-related occupations .....	3,959	3,900	1,968	1,952	1,959	1,947	1,991	1,948	1,978	1,935
Professional specialty .....	15,809	16,112	7,741	7,694	7,677	7,649	8,068	8,419	8,016	8,356
Engineers .....	1,803	1,865	1,666	1,726	1,666	1,726	137	139	137	139
Mathematical and computer scientists .....	801	952	528	605	528	605	272	347	271	347
Natural scientists .....	394	408	291	294	291	294	103	114	103	114
Health diagnosing occupations .....	868	808	735	664	734	664	133	143	133	144
Health assessment and treating occupations .....	2,325	2,305	314	282	313	282	2,011	2,023	2,007	2,019
Teachers, college and university .....	778	703	499	422	497	423	279	281	276	275
Teachers, except college and university .....	4,145	4,252	1,133	1,086	1,120	1,080	3,012	3,166	2,994	3,134
Lawyers and judges .....	736	797	589	634	589	634	147	164	147	164
Other professional specialty occupations .....	3,959	4,022	1,985	1,980	1,939	1,941	1,974	2,042	1,947	2,021
<b>Technical, sales, and administrative support</b> .....	37,141	36,052	13,062	12,656	12,421	12,032	24,079	23,396	22,488	22,000
Technicians and related support .....	3,910	3,684	2,001	1,852	1,973	1,833	1,909	1,832	1,888	1,825
Health technologists and technicians .....	1,317	1,386	213	227	210	223	1,105	1,159	1,094	1,160
Engineering and science technicians .....	1,239	1,179	968	938	951	928	271	241	265	234
Technicians, except health, engineering, and science .....	1,354	1,119	821	687	812	682	533	432	529	431
Sales occupations .....	14,355	13,921	7,279	7,164	6,895	6,769	7,076	6,756	6,038	5,897
Supervisors and proprietors .....	3,890	3,774	2,558	2,487	2,538	2,473	1,332	1,287	1,302	1,267
Sales representatives, finance and business services .....	2,419	2,348	1,385	1,394	1,374	1,369	1,034	954	1,009	940
Sales representatives, commodities, except retail .....	1,627	1,578	1,248	1,206	1,242	1,196	379	372	370	369
Sales workers, retail and personal services .....	6,331	6,144	2,062	2,048	1,714	1,703	4,269	4,096	3,302	3,274
Sales-related occupations .....	87	76	26	30	26	27	61	47	56	46
Administrative support, including clerical .....	18,875	18,447	3,782	3,640	3,554	3,429	15,094	14,808	14,562	14,279
Supervisors .....	796	765	329	292	327	292	467	474	465	473
Computer equipment operators .....	879	713	310	265	299	251	569	449	553	435
Secretaries, stenographers, and typists .....	4,616	4,412	62	48	56	46	4,554	4,364	4,412	4,276
Financial records processing .....	2,485	2,397	215	233	209	221	2,270	2,164	2,232	2,135
Mail and message distributing .....	921	895	589	586	559	543	332	309	317	293
Other administrative support, including clerical .....	9,179	9,265	2,276	2,216	2,104	2,077	6,902	7,049	6,584	6,667
<b>Service occupations</b> .....	15,611	15,698	6,257	6,326	5,370	5,581	9,355	9,373	8,388	8,449
Private household .....	743	735	14	38	12	34	728	697	651	600
Protective service .....	1,947	2,069	1,677	1,749	1,640	1,725	270	320	251	296
Service, except private household and protective .....	12,921	12,894	4,566	4,539	3,719	3,822	8,356	8,355	7,486	7,553
Food service .....	5,268	5,224	2,154	2,048	1,512	1,521	3,115	3,176	2,527	2,640
Health service .....	2,055	2,112	224	233	210	211	1,832	1,877	1,762	1,789
Cleaning and building service .....	3,032	3,029	1,705	1,763	1,560	1,644	1,327	1,267	1,276	1,212
Personal service .....	2,566	2,529	483	493	437	447	2,083	2,036	1,920	1,911
<b>Precision production, craft, and repair</b> .....	13,638	13,115	12,556	12,008	12,278	11,809	1,082	1,107	1,063	1,093
Mechanics and repairers .....	4,465	4,281	4,304	4,132	4,199	4,082	161	150	160	148
Construction trades .....	5,258	5,052	5,165	4,931	5,061	4,822	93	121	91	120
Other precision production, craft, and repair .....	3,915	3,782	3,086	2,946	3,017	2,905	829	836	812	825
<b>Operators, fabricators, and laborers</b> .....	17,665	17,094	13,091	12,870	12,062	12,045	4,574	4,224	4,380	4,097
Machine operators, assemblers, and inspectors .....	8,004	7,604	4,725	4,605	4,551	4,485	3,278	2,999	3,191	2,936
Manufacturing industries .....	6,519	6,281	3,852	3,784	3,713	3,703	2,668	2,497	2,611	2,451
Durable goods .....	3,625	3,453	2,525	2,466	2,436	2,418	1,100	987	1,075	970
Nondurable goods .....	2,895	2,828	1,327	1,318	1,277	1,285	1,568	1,510	1,536	1,481
Nonmanufacturing industries .....	1,485	1,323	874	821	838	782	611	502	580	485
Transportation and material moving occupations .....	4,845	4,868	4,390	4,416	4,272	4,326	455	451	438	449
Motor vehicle operators .....	3,598	3,653	3,179	3,246	3,095	3,171	419	407	403	405
Other transportation and material moving occupations .....	1,247	1,215	1,210	1,171	1,177	1,155	36	44	35	44
Handlers, equipment cleaners, helpers, and laborers .....	4,817	4,622	3,976	3,848	3,240	3,233	840	774	750	712
Construction laborers .....	822	692	807	681	732	632	15	11	14	11
Other handlers, equipment cleaners, helpers, and laborers .....	3,994	3,930	3,169	3,166	2,508	2,602	826	763	737	702
<b>Farming, forestry, and fishing</b> .....	3,679	3,703	3,089	3,110	2,823	2,799	590	593	540	549
Farm operators and managers .....	1,373	1,265	1,172	1,054	1,167	1,044	201	211	201	209
Other farming, forestry, and fishing occupations .....	2,307	2,437	1,917	2,056	1,656	1,755	389	382	339	339

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	May 1990	May 1991	May 1990	May 1991	May 1990	May 1991
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	118,277	116,624	64,624	63,499	53,653	53,125
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	25.8	26.5	25.6	26.0	26.0	27.2
Executive, administrative, and managerial .....	12.5	12.7	13.7	13.9	11.0	11.3
Professional specialty .....	13.4	13.8	12.0	12.1	15.0	15.8
Technical, sales, and administrative support .....	31.4	30.9	20.2	19.9	44.9	44.0
Technicians and related support .....	3.3	3.2	3.1	2.9	3.6	3.4
Sales occupations .....	12.1	11.9	11.3	11.3	13.2	12.7
Administrative support, including clerical .....	16.0	15.8	5.9	5.7	28.1	27.9
Service occupations .....	13.2	13.5	9.7	10.0	17.4	17.6
Private household .....	.6	.6	-	.1	1.4	1.3
Protective service .....	1.6	1.8	2.6	2.8	.5	.6
Service, except private household and protective .....	10.9	11.1	7.1	7.1	15.6	15.7
Precision production, craft, and repair .....	11.5	11.2	19.4	18.9	2.0	2.1
Operators, fabricators, and laborers .....	14.9	14.7	20.3	20.3	8.5	8.0
Machine operators, assemblers, and inspectors .....	6.8	6.5	7.3	7.3	6.1	5.6
Transportation and material moving occupations .....	4.1	4.2	6.8	7.0	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.1	4.0	6.2	6.1	1.6	1.5
Farming, forestry, and fishing .....	3.1	3.2	4.8	4.9	1.1	1.1
<b>White</b>						
Total, 16 years and over (thousands) .....	102,350	101,018	56,574	55,654	45,776	45,364
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	26.9	27.6	26.8	27.1	27.1	28.2
Executive, administrative, and managerial .....	13.2	13.4	14.4	14.7	11.6	11.9
Professional specialty .....	13.8	14.2	12.3	12.4	15.5	16.3
Technical, sales, and administrative support .....	31.8	31.2	20.5	20.1	45.7	44.9
Technicians and related support .....	3.3	3.1	3.1	2.9	3.5	3.4
Sales occupations .....	12.8	12.5	11.9	11.9	13.8	13.3
Administrative support, including clerical .....	15.7	15.6	5.5	5.3	28.4	28.2
Service occupations .....	12.0	12.2	8.7	8.9	16.0	16.3
Private household .....	.5	.5	-	-	1.1	1.1
Protective service .....	1.5	1.7	2.4	2.6	.5	.5
Service, except private household and protective .....	9.9	10.0	6.3	6.3	14.5	14.6
Precision production, craft, and repair .....	11.9	11.6	19.9	19.4	2.0	2.0
Operators, fabricators, and laborers .....	14.1	14.0	19.1	19.4	8.0	7.3
Machine operators, assemblers, and inspectors .....	6.3	6.1	7.0	6.9	5.6	5.0
Transportation and material moving occupations .....	3.9	4.0	6.4	6.6	.9	.9
Handlers, equipment cleaners, helpers, and laborers .....	3.9	3.9	5.8	5.9	1.5	1.4
Farming, forestry, and fishing .....	3.3	3.3	5.0	5.1	1.2	1.2
<b>Black</b>						
Total, 16 years and over (thousands) .....	12,093	11,698	5,957	5,729	6,136	5,970
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	15.4	17.1	13.2	14.3	17.4	19.7
Executive, administrative, and managerial .....	6.6	7.2	6.9	7.1	6.3	7.3
Professional specialty .....	8.8	9.9	6.4	7.2	11.1	12.4
Technical, sales, and administrative support .....	28.7	28.2	16.1	17.2	40.8	38.7
Technicians and related support .....	2.9	2.7	2.1	2.3	3.7	3.2
Sales occupations .....	7.4	7.4	5.5	6.0	9.1	8.7
Administrative support, including clerical .....	18.4	18.1	8.5	8.9	28.0	26.8
Service occupations .....	22.8	23.1	17.9	18.5	27.5	27.4
Private household .....	1.7	1.6	-	.3	3.4	2.8
Protective service .....	2.9	2.9	4.8	4.6	.9	1.3
Service, except private household and protective .....	18.2	18.6	13.1	13.6	23.2	23.4
Precision production, craft, and repair .....	9.3	8.8	16.6	16.1	2.3	1.8
Operators, fabricators, and laborers .....	22.2	20.8	32.9	29.9	11.7	12.1
Machine operators, assemblers, and inspectors .....	10.0	9.7	10.8	10.3	9.1	9.2
Transportation and material moving occupations .....	6.2	6.1	11.7	11.7	.9	.7
Handlers, equipment cleaners, helpers, and laborers .....	6.0	5.0	10.4	7.9	1.7	2.2
Farming, forestry, and fishing .....	1.7	2.1	3.1	3.9	.3	.3

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

(In thousands)

Age and sex	May 1991								
	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 .....	104,214	939	18,029	85,246	8,749	231	1,803	1,491	137
16 to 19 years .....	5,070	146	273	4,650	44	5	206	49	23
16 to 17 years .....	1,813	93	56	1,663	34	4	83	28	12
18 to 19 years .....	3,256	52	217	2,987	9	1	122	20	10
20 to 24 years .....	11,348	111	984	10,253	282	19	308	52	8
25 to 34 years .....	30,323	141	4,335	25,848	1,937	32	553	276	15
35 to 44 years .....	27,801	160	5,790	21,851	2,688	69	358	357	29
45 to 54 years .....	17,554	122	4,070	13,361	2,016	52	190	285	23
55 to 64 years .....	9,574	162	2,108	7,304	1,154	30	133	280	23
55 to 59 years .....	5,777	76	1,286	4,415	653	18	65	129	15
60 to 64 years .....	3,797	86	822	2,889	502	12	69	152	8
65 years and over .....	2,544	98	468	1,978	627	23	55	192	16
Men, 16 years and over .....	55,083	138	8,183	46,762	5,673	37	1,416	1,253	37
16 to 19 years .....	2,519	44	115	2,359	24	4	170	47	14
16 to 17 years .....	919	32	22	864	17	4	75	26	7
18 to 19 years .....	1,600	12	93	1,495	8	1	95	20	7
20 to 24 years .....	5,863	21	443	5,400	185	11	249	44	7
25 to 34 years .....	16,362	22	2,020	14,320	1,232	5	431	247	2
35 to 44 years .....	14,606	19	2,534	12,053	1,710	4	265	288	-
45 to 54 years .....	9,151	12	1,815	7,325	1,291	5	151	227	2
55 to 64 years .....	5,262	16	1,041	4,205	788	3	100	225	6
55 to 59 years .....	3,160	7	623	2,530	423	1	43	105	2
60 to 64 years .....	2,101	9	418	1,674	365	2	57	120	3
65 years and over .....	1,320	3	216	1,101	443	5	50	175	6
Women, 16 years and over .....	49,131	802	9,846	38,484	3,076	194	387	238	100
16 to 19 years .....	2,551	101	158	2,291	19	1	36	2	9
16 to 17 years .....	895	61	34	800	18	1	8	2	5
18 to 19 years .....	1,656	40	124	1,492	2	-	27	-	3
20 to 24 years .....	5,485	91	542	4,853	97	8	59	8	1
25 to 34 years .....	13,962	118	2,315	11,528	706	26	122	29	13
35 to 44 years .....	13,195	141	3,256	9,798	978	65	94	69	29
45 to 54 years .....	8,402	110	2,255	6,037	725	47	38	58	21
55 to 64 years .....	4,313	146	1,067	3,100	367	28	33	55	17
55 to 59 years .....	2,617	69	663	1,885	230	17	22	24	13
60 to 64 years .....	1,696	77	404	1,215	136	11	11	31	5
65 years and over .....	1,224	95	252	877	184	18	5	17	10

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	May 1991												
	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 .....	3,431	99	63	35	34	104	-	12	39	12	67	26	2,939
Mining .....	749	125	56	48	4	83	-	18	245	29	111	30	-
Construction .....	7,277	982	106	60	83	400	-	27	4,236	114	479	768	22
Manufacturing .....	20,280	2,529	1,721	721	695	2,304	-	368	3,685	6,281	768	1,117	91
Durable goods .....	11,854	1,456	1,163	489	272	1,311	-	194	2,493	3,453	388	558	76
Nondurable goods .....	8,426	1,074	558	232	424	993	-	174	1,192	2,828	379	558	15
Transportation and public utilities .....	8,140	886	488	305	358	2,123	-	282	1,253	115	1,862	449	18
Wholesale and retail trade .....	23,655	2,073	467	115	9,911	2,298	-	4,317	1,446	267	980	1,734	47
Wholesale trade .....	4,623	512	93	30	1,909	741	-	42	299	133	491	362	11
Retail trade .....	19,032	1,561	374	85	8,002	1,557	-	4,275	1,148	134	489	1,372	36
Finance, insurance, and real estate .....	7,754	2,038	244	114	1,822	2,944	-	287	170	15	9	30	79
Services .....	39,749	4,945	12,130	2,105	987	6,665	735	8,234	1,812	737	533	425	440
Private households .....	947	-	4	6	-	7	735	83	13	4	6	14	76
Other service industries .....	38,802	4,945	12,125	2,099	988	8,659	-	8,152	1,798	734	527	411	365
Professional services .....	26,023	2,725	10,792	1,712	133	4,917	-	4,655	398	189	335	69	98
Public administration .....	5,591	1,173	837	181	26	1,526	-	1,417	229	35	59	41	67

<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 1990	May 1991	Total		Wage and salary workers <sup>1</sup>			
			May 1990	May 1991	Paid absences		Unpaid absences	
					May 1990	May 1991	May 1990	May 1991
Total, 16 years and over .....	4,465	4,437	4,414	4,354	2,149	2,089	1,777	1,750
Vacation .....	1,903	1,971	1,887	1,953	1,294	1,320	389	425
Illness .....	1,346	1,201	1,320	1,167	582	466	650	629
Bad weather .....	74	90	60	76	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	30	16	30	16	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons .....	1,132	1,158	1,116	1,142	273	302	737	696
Men, 16 years and over .....	2,229	2,204	2,174	2,147	1,130	1,078	791	762
Vacation .....	1,012	1,013	1,001	996	714	711	177	177
Illness .....	654	609	639	590	290	257	305	297
All other reasons <sup>3</sup> .....	562	581	533	562	126	110	310	288
Women, 16 years and over .....	2,257	2,233	2,240	2,207	1,017	1,010	985	988
Vacation .....	891	958	886	957	579	609	212	247
Illness .....	691	592	681	577	291	209	346	332
All other reasons <sup>3</sup> .....	675	683	673	672	148	192	427	408

<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.

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

Hours of work	May 1991					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	112,188	3,348	108,840	100.0	100.0	100.0
1 to 34 hours .....	26,191	899	25,292	23.3	26.8	23.2
1 to 4 hours .....	710	42	668	.6	1.3	.6
5 to 14 hours .....	4,564	203	4,361	4.1	6.1	4.0
15 to 29 hours .....	13,213	429	12,783	11.8	12.8	11.7
30 to 34 hours .....	7,704	225	7,480	6.9	6.7	6.9
35 hours and over .....	85,997	2,450	83,547	76.7	73.2	76.8
35 to 39 hours .....	7,806	132	7,675	7.0	3.9	7.1
40 hours .....	45,113	676	44,437	40.2	20.2	40.8
41 hours and over .....	33,078	1,642	31,435	29.5	49.0	28.9
41 to 48 hours .....	11,428	250	11,178	10.2	7.5	10.3
49 to 59 hours .....	12,146	410	11,736	10.8	12.2	10.8
60 hours and over .....	9,504	982	8,521	8.5	29.3	7.8
Average hours, total at work .....	39.5	45.5	39.3	-	-	-
Average hours, workers on full-time schedules .....	43.9	52.9	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 1991					
	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 .....	26,191	6,966	19,225	25,292	6,739	18,554
Economic reasons .....	5,564	1,943	3,620	5,360	1,888	3,472
Slack work .....	2,859	1,620	1,239	2,748	1,576	1,172
Material shortages or repairs to plant and equipment .....	33	33	-	33	33	-
New job started during week .....	216	216	-	204	204	-
Job terminated during week .....	75	75	-	75	75	-
Could find only part-time work .....	2,382	-	2,382	2,300	-	2,300
Other reasons .....	20,628	5,023	15,605	19,932	4,851	15,081
Does not want, or unavailable for, full-time work .....	12,983	-	12,983	12,556	-	12,556
Vacation .....	1,657	1,657	-	1,651	1,651	-
Illness .....	1,392	1,226	166	1,369	1,212	157
Bad weather .....	409	409	-	305	305	-
Industrial dispute .....	9	9	-	9	9	-
Legal or religious holiday .....	51	51	-	51	51	-
Full time for this job .....	1,675	-	1,675	1,642	-	1,642
All other reasons .....	2,451	1,670	781	2,349	1,622	727
Average hours:						
Economic reasons .....	22.6	24.7	21.4	22.7	24.8	21.6
Other reasons .....	21.1	25.9	19.6	21.2	26.0	19.6
Worked 30 to 34 hours:						
Economic reasons .....	1,918	893	1,025	1,867	871	996
Other reasons .....	5,787	2,656	3,131	5,612	2,582	3,030

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Industry	May 1991								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over .....	108,840	5,360	15,081	88,398	56,963	11,178	20,257	39.3	43.6
Wage and salary workers .....	100,345	4,665	13,532	82,148	54,191	10,517	17,439	39.2	43.3
Mining .....	683	10	16	658	356	88	214	48.3	47.3
Construction .....	5,573	464	191	4,919	3,292	599	1,028	40.8	43.3
Manufacturing .....	19,076	642	562	17,872	11,622	2,807	3,443	42.0	43.3
Durable goods .....	11,126	288	228	10,810	6,892	1,661	2,057	42.4	43.3
Nondurable goods .....	7,949	354	333	7,282	4,730	1,146	1,386	41.4	43.2
Transportation and public utilities .....	7,421	218	417	8,786	4,304	909	1,573	42.3	44.2
Wholesale and retail trade .....	21,088	1,442	4,892	14,754	8,734	2,048	3,973	37.2	44.3
Finance, insurance, and real estate .....	6,881	146	645	6,090	4,212	716	1,162	39.9	42.3
Service industries .....	34,233	1,684	6,552	25,997	17,874	2,818	5,306	37.4	42.9
Private households .....	914	156	414	343	228	35	81	26.0	43.5
All other industries .....	33,320	1,527	6,139	25,654	17,646	2,783	5,225	37.7	42.6
Public administration .....	5,390	60	257	5,073	3,797	533	742	40.9	42.2
Self-employed workers .....	8,264	890	1,449	6,125	2,702	646	2,778	40.6	48.3
Unpaid family workers .....	231	5	101	125	70	15	40	35.4	46.9

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Sex, age, race, and marital status	May 1991							
	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 .....	108,840	5,360	15,081	88,398	56,963	31,435	39.3	43.6
16 to 19 years .....	4,989	427	3,167	1,394	1,100	294	23.5	40.0
16 to 17 years .....	1,792	57	1,631	104	86	18	15.9	33.8
18 to 19 years .....	3,197	370	1,537	1,290	1,015	276	27.7	40.5
20 years and over .....	103,851	4,933	11,914	87,004	55,862	31,142	40.0	43.7
20 to 24 years .....	11,247	931	1,958	8,358	5,988	2,371	36.8	42.1
25 years and over .....	92,604	4,002	9,956	78,645	49,874	28,771	40.4	43.9
25 to 44 years .....	60,603	2,717	5,444	52,442	32,685	19,757	41.0	44.0
45 to 64 years .....	29,015	1,144	3,024	24,847	16,247	8,600	40.4	43.6
65 years and over .....	2,986	142	1,489	1,355	940	415	28.9	42.7
<b>Men, 16 years and over</b> .....	58,646	2,640	4,327	51,679	29,664	22,015	42.2	45.2
16 to 19 years .....	2,495	219	1,488	789	588	201	24.8	41.4
16 to 17 years .....	912	26	820	66	52	13	16.7	( <sup>1</sup> )
18 to 19 years .....	1,583	192	668	723	536	188	29.4	41.8
20 years and over .....	56,150	2,421	2,839	50,890	29,077	21,814	43.0	45.2
20 to 24 years .....	5,873	490	751	4,632	3,076	1,556	38.6	43.1
25 years and over .....	50,277	1,931	2,087	46,259	26,001	20,258	43.5	45.4
25 to 44 years .....	32,838	1,362	750	30,726	16,722	14,004	44.2	45.7
45 to 64 years .....	15,781	501	595	14,685	8,735	5,950	43.3	44.9
65 years and over .....	1,658	68	742	848	545	304	31.1	43.9
<b>Women, 16 years and over</b> .....	50,194	2,720	10,755	36,719	27,298	9,421	35.9	41.5
16 to 19 years .....	2,493	209	1,680	605	513	93	22.2	38.3
16 to 17 years .....	880	31	811	38	33	5	15.1	( <sup>1</sup> )
18 to 19 years .....	1,614	178	869	567	479	88	26.1	38.9
20 years and over .....	47,701	2,512	9,075	36,113	26,786	9,328	36.6	41.6
20 to 24 years .....	5,374	441	1,207	3,727	2,912	815	34.8	41.0
25 years and over .....	42,326	2,071	7,868	32,387	23,874	8,513	36.8	41.6
25 to 44 years .....	27,765	1,356	4,692	21,717	15,964	5,753	37.2	41.6
45 to 64 years .....	13,234	642	2,429	10,163	7,514	2,649	37.0	41.7
65 years and over .....	1,328	74	747	507	396	111	26.1	40.7
<b>RACE</b>								
White, 16 years and over .....	94,115	4,393	13,550	76,171	47,707	28,464	39.4	43.9
Men .....	51,289	2,181	3,824	45,284	25,180	20,104	42.4	45.4
Women .....	42,826	2,213	9,726	30,887	22,527	8,360	35.7	41.6
Black, 16 years and over .....	11,034	792	1,076	9,166	7,152	2,014	38.3	41.7
Men .....	5,352	369	332	4,651	3,382	1,270	40.1	43.0
Women .....	5,682	423	745	4,514	3,770	744	36.5	40.4
<b>MARITAL STATUS</b>								
Men, 16 years and over:								
Married, spouse present .....	37,381	1,160	1,448	34,773	19,116	15,658	43.9	45.7
Widowed, divorced, or separated .....	6,316	366	278	5,672	3,293	2,378	42.8	45.2
Single (never married) .....	14,949	1,114	2,601	11,234	7,256	3,978	37.6	43.6
Women, 16 years and over:								
Married, spouse present .....	28,064	1,294	6,418	20,352	15,452	4,900	35.6	41.2
Widowed, divorced, or separated .....	9,990	599	1,224	8,167	5,776	2,391	38.5	42.4
Single (never married) .....	12,140	827	3,112	8,200	6,070	2,130	34.3	41.5

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Occupation and sex	May 1991								
	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>	108,597	5,317	15,042	88,239	56,738	11,180	20,320	39.3	43.7
Managerial and professional specialty	29,866	565	2,727	26,574	14,857	3,449	8,269	42.3	45.1
Executive, administrative, and managerial	14,374	184	695	13,495	6,995	1,769	4,732	44.3	45.8
Professional specialty	15,492	381	2,032	13,079	7,862	1,680	3,536	40.5	44.3
Technical, sales, and administrative support	34,695	1,348	6,252	27,095	18,557	3,184	5,354	37.9	42.8
Technicians and related support	3,537	66	401	3,069	2,115	410	544	40.0	42.7
Sales occupations	13,414	712	2,744	9,958	5,199	1,261	3,499	39.3	45.8
Administrative support, including clerical	17,744	569	3,107	14,067	11,242	1,513	1,311	36.5	40.6
Service occupations	15,101	1,437	4,248	9,416	6,741	991	1,684	34.0	42.6
Private household	723	115	333	275	194	29	51	25.8	42.6
Protective service	1,984	61	186	1,736	1,002	262	473	42.6	45.9
Service, except private household and protective	12,395	1,261	3,729	7,405	5,545	700	1,160	33.1	41.8
Precision production, craft, and repair	12,591	866	398	11,328	7,318	1,631	2,379	41.4	43.6
Operators, fabricators, and laborers	16,344	1,101	1,417	13,826	9,266	1,925	2,635	40.1	43.5
Machine operators, assemblers, and inspectors	7,289	455	275	6,559	4,801	936	822	40.4	42.3
Transportation and material moving occupations	4,636	246	365	4,025	2,115	558	1,352	43.5	46.8
Handlers, equipment cleaners, helpers, and laborers	4,420	400	777	3,242	2,350	431	461	36.1	42.0
Men, 16 years and over <sup>1</sup>	58,274	2,594	4,231	51,449	29,403	6,980	15,065	42.3	45.2
Managerial and professional specialty	16,036	249	710	15,077	7,147	1,984	5,946	45.3	47.0
Executive, administrative, and managerial	8,569	108	220	8,240	3,597	1,085	3,558	46.5	47.6
Professional specialty	7,467	141	490	6,836	3,549	899	2,388	44.0	46.2
Technical, sales, and administrative support	12,245	341	1,180	10,723	5,718	1,443	3,562	42.6	45.7
Technicians and related support	1,781	28	79	1,674	1,083	227	365	42.3	43.7
Sales occupations	6,967	214	721	6,032	2,487	825	2,720	44.3	48.0
Administrative support, including clerical	3,497	99	380	3,017	2,149	391	477	39.2	42.2
Service occupations	6,133	462	1,105	4,566	3,067	554	945	37.6	43.8
Private household	38	9	11	18	14	2	3	( <sup>2</sup> )	( <sup>2</sup> )
Protective service	1,673	45	116	1,513	841	231	441	43.9	46.4
Service, except private household and protective	4,422	408	978	3,035	2,213	322	501	35.3	42.5
Precision production, craft, and repair	11,535	794	269	10,473	6,717	1,488	2,267	41.7	43.7
Operators, fabricators, and laborers	12,325	749	967	10,609	6,754	1,511	2,344	41.0	44.2
Machine operators, assemblers, and inspectors	4,423	212	93	4,119	2,863	634	621	41.7	43.1
Transportation and material moving occupations	4,213	209	234	3,770	1,955	518	1,297	44.3	47.0
Handlers, equipment cleaners, helpers, and laborers	3,688	328	640	2,720	1,936	358	426	36.4	42.3
Women, 16 years and over <sup>1</sup>	50,323	2,723	10,810	36,790	27,335	4,200	5,255	35.9	41.5
Managerial and professional specialty	13,830	316	2,017	11,497	7,710	1,465	2,322	38.8	42.6
Executive, administrative, and managerial	5,805	76	475	5,255	3,397	683	1,174	41.0	43.1
Professional specialty	8,025	240	1,542	6,243	4,313	782	1,148	37.3	42.2
Technical, sales, and administrative support	22,450	1,007	5,072	16,372	12,838	1,741	1,792	35.4	40.8
Technicians and related support	1,755	38	322	1,395	1,033	183	179	37.6	41.6
Sales occupations	6,447	498	2,023	3,926	2,712	435	778	33.8	42.4
Administrative support, including clerical	14,247	470	2,727	11,050	9,093	1,122	835	35.8	40.2
Service occupations	8,968	975	3,143	4,849	3,673	437	739	31.5	41.4
Private household	685	106	322	257	180	28	49	25.6	42.6
Protective service	311	17	71	223	161	31	31	35.3	42.2
Service, except private household and protective	7,973	853	2,751	4,369	3,332	378	659	31.9	41.3
Precision production, craft, and repair	1,056	72	129	855	601	143	111	38.1	41.9
Operators, fabricators, and laborers	4,019	353	450	3,217	2,512	414	291	37.4	41.1
Machine operators, assemblers, and inspectors	2,865	243	182	2,440	1,938	302	200	38.4	40.9
Transportation and material moving occupations	422	37	131	255	159	40	56	35.4	44.3
Handlers, equipment cleaners, helpers, and laborers	732	73	137	522	415	72	35	34.7	40.6

<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	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	169,467	189,607	189,763	189,901	190,002	190,095	190,312	190,483	190,592	190,717	190,703	190,836	190,980
Labor force <sup>1</sup> .....	126,578	126,427	126,336	126,345	126,571	126,445	126,338	126,791	126,253	126,678	126,786	127,128	126,690
Percent of population <sup>2</sup> .....	66.8	66.7	66.6	66.5	66.6	66.5	66.4	66.6	66.2	66.4	66.5	66.6	66.3
Total employed <sup>1</sup> .....	119,916	119,867	119,509	119,330	119,484	119,303	119,001	119,191	118,537	118,520	116,214	118,854	118,049
Employment-population ratio <sup>3</sup> .....	63.3	63.2	63.0	62.8	62.9	62.8	62.5	62.6	62.2	62.1	62.0	62.3	61.8
Resident Armed Forces .....	1,639	1,630	1,627	1,640	1,601	1,570	1,615	1,617	1,615	1,602	1,460	1,456	1,456
Civilian employed .....	118,277	118,237	117,882	117,690	117,883	117,733	117,386	117,574	116,922	116,918	116,754	117,398	116,591
Agriculture .....	3,286	3,279	3,108	3,152	3,194	3,175	3,185	3,253	3,163	3,222	3,098	3,156	3,272
Nonagricultural industries .....	114,991	114,958	114,774	114,538	114,689	114,558	114,201	114,321	113,759	113,696	113,656	114,243	113,319
Unemployed .....	6,662	6,560	6,827	7,015	7,087	7,142	7,337	7,600	7,715	8,158	8,572	8,274	8,640
Unemployment rate <sup>4</sup> .....	5.3	5.2	5.4	5.6	5.6	5.6	5.8	6.0	6.1	6.4	6.8	6.5	6.8
Not in labor force .....	62,889	63,180	63,427	63,556	63,431	63,650	63,974	63,692	64,339	64,039	63,917	63,708	64,291
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	91,014	91,087	91,168	91,240	91,271	91,299	91,440	91,537	91,590	91,650	91,587	91,652	91,720
Labor force <sup>1</sup> .....	69,729	69,609	69,523	69,552	69,814	69,804	69,899	70,058	69,543	69,749	69,808	69,855	69,704
Percent of population <sup>2</sup> .....	76.6	76.4	76.3	76.2	76.5	76.5	76.4	76.5	75.9	76.1	76.2	76.2	76.0
Total employed <sup>1</sup> .....	66,061	65,964	65,728	65,663	65,853	65,822	65,790	65,781	65,251	65,043	64,846	65,112	64,746
Employment-population ratio <sup>3</sup> .....	72.6	72.4	72.1	72.0	72.2	72.1	71.9	71.9	71.2	71.0	70.8	71.0	70.6
Resident Armed Forces .....	1,472	1,465	1,462	1,475	1,441	1,414	1,453	1,454	1,453	1,439	1,314	1,310	1,303
Civilian employed .....	64,589	64,499	64,266	64,188	64,412	64,408	64,337	64,327	63,798	63,604	63,532	63,802	63,443
Unemployed .....	3,668	3,645	3,795	3,889	3,961	3,982	4,109	4,277	4,292	4,706	4,962	4,743	4,957
Unemployment rate <sup>4</sup> .....	5.3	5.2	5.5	5.6	5.7	5.7	5.9	6.1	6.2	6.7	7.1	6.8	7.1
Not in labor force .....	21,285	21,478	21,645	21,688	21,457	21,495	21,541	21,479	22,047	21,901	21,779	21,797	22,017
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	98,453	98,520	98,595	98,661	98,731	98,796	98,872	98,946	99,002	99,067	99,116	99,184	99,260
Labor force <sup>1</sup> .....	56,849	56,818	56,813	56,793	56,757	56,841	56,439	56,733	56,710	56,929	56,978	57,273	56,986
Percent of population <sup>2</sup> .....	57.7	57.7	57.6	57.6	57.5	57.3	57.1	57.3	57.3	57.5	57.5	57.7	57.4
Total employed <sup>1</sup> .....	53,855	53,903	53,781	53,667	53,631	53,481	53,211	53,410	53,287	53,477	53,368	53,742	53,303
Employment-population ratio <sup>3</sup> .....	54.7	54.7	54.5	54.4	54.3	54.1	53.8	54.0	53.8	54.0	53.8	54.2	53.7
Resident Armed Forces .....	167	165	165	165	160	156	162	163	162	163	146	146	155
Civilian employed .....	53,688	53,738	53,616	53,502	53,471	53,325	53,049	53,247	53,125	53,314	53,222	53,596	53,148
Unemployed .....	2,994	2,915	3,032	3,126	3,126	3,160	3,228	3,323	3,423	3,452	3,610	3,531	3,683
Unemployment rate <sup>4</sup> .....	5.3	5.1	5.3	5.5	5.5	5.6	5.7	5.9	6.0	6.1	6.3	6.2	6.5
Not in labor force .....	41,604	41,702	41,782	41,868	41,974	42,155	42,433	42,213	42,292	42,138	42,138	41,911	42,274

<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	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	187,828	187,977	188,136	188,261	188,401	188,525	188,697	188,866	188,977	189,115	189,243	189,380	189,522
Civilian labor force .....	124,939	124,797	124,709	124,705	124,970	124,875	124,723	125,174	124,638	125,076	125,326	125,672	125,232
Percent of population .....	66.5	66.4	66.3	66.2	66.3	66.2	66.1	66.3	66.0	66.1	66.2	66.4	66.1
Employed .....	118,277	118,237	117,882	117,690	117,883	117,733	117,386	117,574	116,922	116,918	116,754	117,398	116,591
Employment-population ratio <sup>2</sup> .....	63.0	62.9	62.7	62.5	62.6	62.4	62.2	62.3	61.9	61.8	61.7	62.0	61.5
Unemployed .....	6,662	6,560	6,827	7,015	7,087	7,142	7,337	7,600	7,715	8,158	8,572	8,274	8,640
Unemployment rate .....	5.3	5.3	5.5	5.6	5.7	5.7	5.9	6.1	6.2	6.5	6.8	6.6	6.9
<b>Men, 16 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	89,542	89,622	89,706	89,765	89,830	89,885	89,987	90,083	90,137	90,211	90,273	90,342	90,417
Civilian labor force .....	68,257	68,144	68,061	68,077	68,373	68,390	68,446	68,604	68,090	68,310	68,494	68,545	68,401
Percent of population .....	76.2	76.0	75.9	75.8	76.1	76.1	76.1	76.2	75.5	75.7	75.9	75.9	75.7
Employed .....	64,589	64,499	64,266	64,188	64,412	64,408	64,337	64,327	63,798	63,604	63,532	63,802	63,443
Employment-population ratio <sup>2</sup> .....	72.1	72.0	71.6	71.5	71.7	71.7	71.5	71.4	70.8	70.5	70.4	70.6	70.2
Agriculture .....	2,562	2,571	2,478	2,477	2,512	2,504	2,518	2,572	2,466	2,520	2,456	2,504	2,596
Nonagricultural industries .....	62,027	61,928	61,788	61,711	61,900	61,904	61,819	61,755	61,331	61,084	61,076	61,298	60,847
Unemployed .....	3,668	3,645	3,795	3,889	3,961	3,982	4,109	4,277	4,292	4,706	4,962	4,743	4,957
Unemployment rate .....	5.4	5.3	5.6	5.7	5.8	5.8	6.0	6.2	6.3	6.9	7.2	6.9	7.2
Not in labor force .....	21,285	21,478	21,645	21,688	21,457	21,495	21,541	21,479	22,047	21,901	21,779	21,797	22,017
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	82,581	82,676	82,790	82,862	82,940	83,013	83,092	83,208	83,271	83,392	83,466	83,567	83,636
Civilian labor force .....	64,313	64,342	64,331	64,419	64,572	64,594	64,682	64,803	64,345	64,577	64,735	64,957	64,741
Percent of population .....	77.9	77.8	77.7	77.7	77.9	77.8	77.8	77.9	77.3	77.4	77.6	77.7	77.4
Employed .....	61,276	61,294	61,162	61,174	61,248	61,245	61,217	61,188	60,734	60,533	60,551	60,905	60,556
Employment-population ratio <sup>2</sup> .....	74.2	74.1	73.9	73.8	73.8	73.8	73.7	73.5	72.9	72.6	72.5	72.9	72.4
Agriculture .....	2,374	2,369	2,279	2,266	2,299	2,283	2,307	2,365	2,289	2,315	2,255	2,328	2,368
Nonagricultural industries .....	58,902	58,925	58,883	58,908	58,949	58,962	58,910	58,823	58,445	58,217	58,296	58,577	58,188
Unemployed .....	3,037	3,048	3,169	3,245	3,324	3,349	3,465	3,615	3,611	4,044	4,184	4,052	4,184
Unemployment rate .....	4.7	4.7	4.9	5.0	5.1	5.2	5.4	5.6	5.6	6.3	6.5	6.2	6.5
Not in labor force .....	18,268	18,334	18,459	18,443	18,368	18,419	18,410	18,405	18,926	18,815	18,731	18,610	18,895
<b>Women, 16 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	98,286	98,355	98,430	98,496	98,571	98,640	98,710	98,783	98,840	98,904	98,970	99,038	99,105
Civilian labor force .....	56,682	56,653	56,648	56,628	56,597	56,485	56,277	56,570	56,548	56,766	56,832	57,127	56,831
Percent of population .....	57.7	57.6	57.6	57.5	57.4	57.3	57.0	57.3	57.2	57.4	57.4	57.7	57.3
Employed .....	53,688	53,738	53,616	53,502	53,471	53,325	53,049	53,247	53,125	53,314	53,222	53,596	53,148
Employment-population ratio <sup>2</sup> .....	54.6	54.6	54.5	54.3	54.2	54.1	53.7	53.9	53.7	53.9	53.8	54.1	53.6
Agriculture .....	724	708	630	675	682	671	667	681	697	703	642	651	676
Nonagricultural industries .....	52,964	53,030	52,986	52,827	52,789	52,654	52,382	52,566	52,428	52,611	52,580	52,945	52,473
Unemployed .....	2,994	2,915	3,032	3,126	3,126	3,160	3,228	3,323	3,423	3,452	3,610	3,531	3,683
Unemployment rate .....	5.3	5.1	5.4	5.5	5.5	5.6	5.7	5.9	6.1	6.1	6.4	6.2	6.5
Not in labor force .....	41,604	41,702	41,782	41,868	41,974	42,155	42,433	42,213	42,292	42,138	42,138	41,911	42,274
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	91,414	91,495	91,581	91,688	91,765	91,857	91,963	92,042	92,139	92,198	92,273	92,358	92,454
Civilian labor force .....	53,075	53,107	53,155	53,255	53,129	53,047	52,896	53,182	53,097	53,284	53,359	53,634	53,480
Percent of population .....	58.1	58.0	58.0	58.1	57.9	57.7	57.5	57.8	57.6	57.8	57.8	58.1	57.8
Employed .....	50,613	50,675	50,637	50,649	50,504	50,423	50,196	50,389	50,300	50,404	50,323	50,695	50,363
Employment-population ratio <sup>2</sup> .....	55.4	55.4	55.3	55.2	55.0	54.9	54.6	54.7	54.6	54.7	54.5	54.9	54.5
Agriculture .....	664	661	586	634	633	628	627	647	664	675	607	623	633
Nonagricultural industries .....	49,949	50,014	50,051	50,015	49,871	49,795	49,569	49,742	49,636	49,728	49,716	50,072	49,731
Unemployed .....	2,462	2,432	2,518	2,606	2,625	2,624	2,700	2,793	2,797	2,881	3,035	2,939	3,117
Unemployment rate .....	4.6	4.6	4.7	4.9	4.9	4.9	5.1	5.3	5.3	5.4	5.7	5.5	5.8
Not in labor force .....	38,339	38,388	38,426	38,433	38,636	38,810	39,067	38,860	39,042	38,914	38,914	38,724	38,974
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	13,832	13,806	13,764	13,711	13,696	13,655	13,642	13,616	13,567	13,525	13,504	13,455	13,432
Civilian labor force .....	7,551	7,348	7,223	7,031	7,269	7,234	7,145	7,189	7,196	7,215	7,232	7,081	7,011
Percent of population .....	54.6	53.2	52.5	51.3	53.1	53.0	52.4	52.8	53.0	53.3	53.6	52.6	52.2
Employed .....	6,388	6,268	6,083	5,867	6,131	6,065	5,973	5,997	5,889	5,982	5,879	5,798	5,672
Employment-population ratio <sup>2</sup> .....	46.2	45.4	44.2	42.8	44.8	44.4	43.8	44.0	43.4	44.2	43.5	43.1	42.2
Agriculture .....	248	249	243	252	262	264	251	241	211	232	235	204	271
Nonagricultural industries .....	6,140	6,019	5,840	5,615	5,869	5,801	5,722	5,756	5,678	5,750	5,644	5,594	5,401
Unemployed .....	1,163	1,080	1,140	1,164	1,138	1,169	1,172	1,192	1,307	1,233	1,353	1,283	1,339
Unemployment rate .....	15.4	14.7	15.8	16.6	15.7	16.2	16.4	16.6	18.2	17.1	18.7	18.1	19.1
Not in labor force .....	6,281	6,458	6,541	6,680	6,427	6,421	6,497	6,427	6,371	6,310	6,272	6,374	6,421

<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.

**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	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	160,271	160,365	160,468	160,550	160,640	160,717	160,831	160,942	161,007	161,097	161,179	161,264	161,357
Civilian labor force .....	107,223	107,184	107,196	107,166	107,391	107,277	107,048	107,517	106,962	107,432	107,488	107,678	107,491
Percent of population .....	66.9	66.8	66.8	66.7	66.9	66.7	66.6	66.8	66.4	66.7	66.7	66.8	66.6
Employed .....	102,293	102,332	102,189	101,996	102,192	102,017	101,648	101,843	101,104	101,141	100,870	101,455	100,944
Employment-population ratio <sup>2</sup> .....	63.8	63.8	63.7	63.5	63.6	63.5	63.2	63.3	62.8	62.8	62.6	62.9	62.6
Unemployed .....	4,930	4,852	5,007	5,170	5,199	5,260	5,400	5,674	5,858	6,291	6,617	6,223	6,547
Unemployment rate .....	4.6	4.5	4.7	4.8	4.8	4.9	5.0	5.3	5.5	5.9	6.2	5.8	6.1
<b>Men, 20 years and over</b>													
Civilian labor force .....	55,872	55,890	55,909	56,040	56,119	56,123	56,174	56,307	55,836	56,000	56,151	56,310	56,210
Percent of population .....	78.3	78.2	78.2	78.3	78.3	78.3	78.3	78.3	77.6	77.8	77.9	78.1	77.9
Employed .....	53,593	53,611	53,566	53,601	53,675	53,615	53,564	53,497	53,010	52,801	52,828	53,179	53,025
Employment-population ratio <sup>2</sup> .....	75.1	75.0	74.9	74.9	74.9	74.8	74.6	74.4	73.7	73.3	73.3	73.7	73.5
Unemployed .....	2,279	2,279	2,343	2,439	2,444	2,508	2,610	2,810	2,826	3,198	3,323	3,131	3,185
Unemployment rate .....	4.1	4.1	4.2	4.4	4.4	4.5	4.6	5.0	5.1	5.7	5.9	5.6	5.7
<b>Women, 20 years and over</b>													
Civilian labor force .....	44,861	44,982	45,039	45,060	44,984	44,918	44,711	44,995	44,888	45,211	45,186	45,304	45,242
Percent of population .....	57.7	57.8	57.8	57.8	57.7	57.6	57.2	57.6	57.4	57.8	57.7	57.8	57.7
Employed .....	43,086	43,200	43,229	43,194	43,101	43,032	42,768	43,001	42,841	43,019	42,892	43,169	42,932
Employment-population ratio <sup>2</sup> .....	55.4	55.5	55.5	55.4	55.3	55.1	54.8	55.0	54.8	55.0	54.8	55.1	54.7
Unemployed .....	1,775	1,782	1,810	1,866	1,883	1,886	1,943	1,994	2,047	2,192	2,294	2,136	2,310
Unemployment rate .....	4.0	4.0	4.0	4.1	4.2	4.2	4.3	4.4	4.6	4.8	5.1	4.7	5.1
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,490	6,312	6,248	6,066	6,288	6,236	6,163	6,215	6,238	6,222	6,151	6,064	6,039
Percent of population .....	58.2	56.8	56.4	54.9	57.1	56.9	56.3	57.0	57.4	57.5	57.1	56.4	56.3
Employed .....	5,614	5,521	5,394	5,201	5,416	5,370	5,316	5,345	5,253	5,321	5,150	5,108	4,987
Employment-population ratio <sup>2</sup> .....	50.4	49.7	48.7	47.1	49.2	49.0	48.6	49.0	48.3	49.2	47.8	47.5	46.5
Unemployed .....	876	791	854	865	872	866	847	870	985	901	1,001	956	1,052
Unemployment rate .....	13.5	12.5	13.7	14.3	13.9	13.9	13.7	14.0	15.8	14.5	16.3	15.8	17.4
Men .....	14.1	13.4	14.9	15.4	15.0	14.7	14.9	14.9	15.8	15.4	18.6	16.9	19.3
Women .....	12.9	11.6	12.4	13.1	12.6	13.0	12.5	13.0	15.8	13.4	13.7	14.7	15.4
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	21,261	21,289	21,318	21,337	21,361	21,383	21,417	21,448	21,470	21,493	21,516	21,541	21,569
Civilian labor force .....	13,570	13,488	13,406	13,401	13,476	13,493	13,550	13,486	13,501	13,421	13,610	13,670	13,472
Percent of population .....	63.8	63.4	62.9	62.8	63.1	63.1	63.3	62.9	62.9	62.4	63.3	63.5	62.5
Employed .....	12,128	12,044	11,884	11,838	11,869	11,913	11,897	11,836	11,866	11,839	11,934	11,948	11,727
Employment-population ratio <sup>2</sup> .....	57.0	56.6	55.7	55.5	55.6	55.7	55.5	55.2	55.3	55.1	55.5	55.5	54.4
Unemployed .....	1,442	1,444	1,522	1,563	1,607	1,580	1,653	1,650	1,635	1,582	1,675	1,722	1,745
Unemployment rate .....	10.6	10.7	11.4	11.7	11.9	11.7	12.2	12.2	12.1	11.8	12.3	12.6	13.0
<b>Men, 20 years and over</b>													
Civilian labor force .....	6,247	6,298	6,292	6,260	6,324	6,339	6,348	6,359	6,313	6,366	6,395	6,416	6,265
Percent of population .....	73.6	74.1	73.9	73.4	74.1	74.1	74.3	74.1	73.5	73.9	74.1	74.2	72.6
Employed .....	5,653	5,688	5,618	5,594	5,597	5,635	5,638	5,664	5,602	5,649	5,672	5,647	5,475
Employment-population ratio <sup>2</sup> .....	66.6	66.9	65.9	65.6	65.5	65.9	66.0	66.0	65.2	65.6	65.7	65.3	63.5
Unemployed .....	594	610	674	666	727	704	710	695	712	717	723	769	790
Unemployment rate .....	9.5	9.7	10.7	10.6	11.5	11.1	11.2	10.9	11.3	11.3	11.3	12.0	12.6
<b>Women, 20 years and over</b>													
Civilian labor force .....	6,486	6,377	6,336	6,358	6,362	6,345	6,365	6,339	6,374	6,286	6,388	6,476	6,459
Percent of population .....	61.1	59.9	59.5	59.6	59.5	59.3	59.4	59.0	59.3	58.4	59.2	60.0	59.7
Employed .....	5,888	5,797	5,738	5,733	5,716	5,728	5,717	5,668	5,738	5,694	5,755	5,812	5,755
Employment-population ratio <sup>2</sup> .....	55.4	54.5	53.9	53.7	53.5	53.5	53.3	52.8	53.4	52.9	53.4	53.8	53.2
Unemployed .....	598	580	598	625	646	617	648	671	636	593	633	664	705
Unemployment rate .....	9.2	9.1	9.4	9.8	10.2	9.7	10.2	10.6	10.0	9.4	9.9	10.3	10.9

See footnotes at end of table.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1990								1991				
	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 .....	837	813	778	783	790	809	837	788	814	769	826	779	747
Percent of population .....	38.9	37.9	36.3	36.6	37.0	38.0	38.9	36.9	38.4	36.4	39.2	37.1	35.1
Employed .....	587	559	528	511	556	550	542	504	526	497	507	490	497
Employment-population ratio <sup>2</sup> .....	27.3	26.0	24.6	23.9	26.0	25.8	25.2	23.6	24.8	23.5	24.1	23.3	23.3
Unemployed .....	250	254	250	272	234	259	295	284	288	272	319	289	250
Unemployment rate .....	29.9	31.2	32.1	34.7	29.6	32.0	35.2	36.0	35.4	35.4	38.6	37.1	33.5
Men .....	31.6	35.2	33.1	36.7	31.4	31.3	33.2	36.4	34.6	35.5	38.4	38.4	36.7
Women .....	28.1	27.1	31.1	32.7	27.6	32.7	37.5	35.6	36.1	35.2	38.9	35.7	30.1
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,238	14,277	14,317	14,356	14,396	14,435	14,474	14,514	14,553	14,593	14,632	14,672	14,711
Civilian labor force .....	9,627	9,618	9,638	9,665	9,632	9,580	9,500	9,569	9,675	9,578	9,696	9,739	9,695
Percent of population .....	67.6	67.4	67.3	67.3	66.9	66.4	65.6	65.9	66.5	65.6	66.3	66.4	65.9
Employed .....	8,883	8,919	8,875	8,904	8,809	8,793	8,683	8,676	8,779	8,664	8,700	8,859	8,756
Employment-population ratio <sup>2</sup> .....	62.4	62.5	62.0	62.0	61.2	60.9	60.0	59.8	60.3	59.4	59.5	60.4	59.5
Unemployed .....	744	699	763	761	823	787	817	893	896	914	997	880	939
Unemployment rate .....	7.7	7.3	7.9	7.9	8.5	8.2	8.6	9.3	9.3	9.5	10.3	9.0	9.7

<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	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>CHARACTERISTIC</b>													
Total .....	118,277	118,237	117,882	117,690	117,883	117,733	117,386	117,574	116,922	116,918	116,754	117,398	116,591
Married men, spouse present .....	40,854	40,626	40,601	40,661	40,833	40,833	40,844	40,728	40,316	40,482	40,296	40,502	40,280
Married women, spouse present .....	29,987	29,828	29,862	29,869	29,797	29,789	29,713	29,776	29,599	29,680	29,514	29,762	29,608
Women who maintain families .....	6,390	6,432	6,376	6,372	6,376	6,354	6,341	6,367	6,386	6,384	6,470	6,371	6,350
<b>OCCUPATION</b>													
Managerial and professional specialty .....	30,490	30,735	30,758	30,913	30,572	30,714	30,732	30,777	30,699	31,093	30,764	30,990	30,908
Technical, sales, and administrative support .....	37,335	36,678	36,499	36,009	36,541	36,447	36,380	36,242	36,360	36,100	36,265	36,515	36,233
Service occupations .....	15,693	15,894	15,917	15,847	15,889	15,880	15,861	15,904	15,746	15,773	15,948	15,882	15,793
Precision production, craft, and repair .....	13,707	13,595	13,697	13,586	13,604	13,547	13,428	13,524	13,399	13,333	13,212	13,197	13,181
Operators, fabricators, and laborers .....	17,762	17,838	17,698	17,852	17,814	17,858	17,752	17,695	17,227	16,997	17,051	17,150	17,188
Farming, forestry, and fishing .....	3,423	3,513	3,384	3,448	3,449	3,376	3,360	3,436	3,437	3,499	3,387	3,464	3,451
<b>INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,693	1,685	1,665	1,705	1,752	1,714	1,681	1,671	1,603	1,629	1,556	1,660	1,703
Self-employed workers .....	1,463	1,479	1,382	1,364	1,293	1,350	1,386	1,473	1,396	1,448	1,412	1,450	1,421
Unpaid family workers .....	104	107	100	97	108	99	116	102	157	168	134	95	117
Nonagricultural industries:													
Wage and salary workers .....	106,176	105,893	105,783	105,627	105,686	105,384	105,267	105,095	104,698	104,569	104,455	104,697	104,613
Government .....	18,050	17,832	17,785	17,798	17,597	17,694	17,633	17,640	17,680	17,792	17,829	18,064	17,904
Private industries .....	88,126	88,061	87,998	87,829	88,089	87,690	87,634	87,455	87,018	86,777	86,626	86,633	86,709
Private households .....	964	1,039	1,003	1,021	1,067	1,017	992	1,013	967	953	980	943	934
Other industries .....	87,162	87,022	86,995	86,808	87,022	86,673	86,642	86,442	86,051	85,824	85,646	85,690	85,775
Self-employed workers .....	8,765	8,756	8,725	8,646	8,809	8,859	8,800	8,896	8,738	8,876	8,926	9,209	8,732
Unpaid family workers .....	244	239	258	236	238	250	255	238	232	239	224	213	206
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	4,859	5,022	5,001	5,092	5,301	5,409	5,438	5,581	5,510	6,062	6,163	6,162	5,932
Slack work .....	2,443	2,501	2,570	2,491	2,658	2,663	2,786	2,928	2,908	3,252	3,303	3,383	3,138
Could only find part-time work .....	2,095	2,207	2,120	2,153	2,408	2,344	2,340	2,302	2,214	2,401	2,494	2,462	2,556
Voluntary part time .....	15,557	15,190	15,263	15,317	15,250	15,129	15,048	15,081	14,833	14,971	14,819	15,027	14,876
Nonagricultural industries:													
Part time for economic reasons .....	4,689	4,745	4,780	4,830	5,051	5,135	5,163	5,262	5,178	5,803	5,889	5,956	5,702
Slack work .....	2,306	2,297	2,399	2,290	2,482	2,467	2,625	2,742	2,692	3,067	3,107	3,181	2,971
Could only find part-time work .....	2,045	2,136	2,102	2,084	2,333	2,281	2,262	2,218	2,133	2,349	2,404	2,403	2,463
Voluntary part time .....	15,002	14,668	14,853	14,861	14,823	14,715	14,658	14,650	14,461	14,528	14,452	14,641	14,377

<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	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total, 16 years and over .....	118,277	118,237	117,882	117,690	117,883	117,733	117,386	117,574	116,922	116,918	116,754	117,398	116,591
16 to 24 years .....	19,061	18,934	18,732	18,439	18,684	18,577	18,518	18,572	18,442	18,274	18,186	18,192	17,822
16 to 19 years .....	6,388	6,268	6,083	5,867	6,131	6,065	5,973	5,997	5,889	5,982	5,879	5,798	5,672
16 to 17 years .....	2,383	2,316	2,215	2,158	2,246	2,212	2,225	2,224	2,215	2,360	2,177	2,146	2,102
18 to 19 years .....	3,993	3,946	3,888	3,729	3,856	3,857	3,739	3,774	3,704	3,631	3,695	3,643	3,549
20 to 24 years .....	12,873	12,666	12,649	12,572	12,553	12,512	12,545	12,575	12,554	12,292	12,306	12,394	12,151
25 years and over .....	99,172	99,336	99,247	99,320	99,212	99,160	98,847	98,937	98,463	98,605	98,529	99,150	98,727
25 to 54 years .....	84,256	84,366	84,336	84,328	84,322	84,325	84,075	84,070	83,717	83,866	83,821	84,342	84,165
55 years and over .....	14,932	14,930	14,906	14,950	14,992	14,851	14,812	14,901	14,628	14,687	14,720	14,778	14,583
Men, 16 years and over .....	64,589	64,499	64,266	64,188	64,412	64,408	64,337	64,327	63,798	63,604	63,532	63,802	63,443
18 to 24 years .....	9,969	9,866	9,778	9,613	9,760	9,712	9,695	9,758	9,594	9,483	9,392	9,371	9,264
16 to 19 years .....	3,313	3,205	3,104	3,014	3,164	3,163	3,120	3,139	3,063	3,071	2,981	2,897	2,887
16 to 17 years .....	1,227	1,184	1,136	1,089	1,170	1,163	1,179	1,172	1,205	1,215	1,092	1,075	1,080
18 to 19 years .....	2,063	2,014	1,992	1,919	1,976	1,995	1,950	1,966	1,886	1,857	1,895	1,810	1,782
20 to 24 years .....	6,656	6,661	6,674	6,589	6,596	6,549	6,575	6,619	6,530	6,412	6,412	6,474	6,377
25 years and over .....	54,591	54,634	54,508	54,604	54,670	54,687	54,637	54,546	54,190	54,084	54,113	54,433	54,154
25 to 54 years .....	46,094	46,102	46,022	46,040	46,153	46,219	46,137	46,035	45,819	45,742	45,761	45,962	45,828
55 years and over .....	8,489	8,499	8,498	8,530	8,573	8,492	8,498	8,553	8,318	8,326	8,353	8,415	8,330
Women, 16 years and over .....	53,688	53,738	53,616	53,502	53,471	53,325	53,049	53,247	53,125	53,314	53,222	53,596	53,148
16 to 24 years .....	9,092	9,068	8,954	8,826	8,924	8,865	8,823	8,814	8,848	8,791	8,793	8,821	8,559
16 to 19 years .....	3,075	3,063	2,979	2,853	2,967	2,902	2,853	2,858	2,825	2,911	2,899	2,901	2,785
16 to 17 years .....	1,156	1,132	1,079	1,069	1,076	1,049	1,046	1,052	1,010	1,145	1,085	1,071	1,022
18 to 19 years .....	1,930	1,932	1,896	1,810	1,880	1,862	1,789	1,808	1,818	1,774	1,800	1,833	1,767
20 to 24 years .....	6,017	6,005	5,975	5,973	5,957	5,963	5,970	5,956	6,023	5,881	5,895	5,920	5,774
25 years and over .....	44,581	44,702	44,739	44,716	44,542	44,473	44,210	44,391	44,273	44,521	44,416	44,717	44,573
25 to 54 years .....	38,162	38,264	38,314	38,288	38,169	38,106	37,938	38,035	37,898	38,124	38,060	38,380	38,337
55 years and over .....	6,443	6,431	6,408	6,420	6,419	6,359	6,314	6,348	6,310	6,361	6,367	6,363	6,253

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

(In thousands)

Sex and age	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total, 16 years and over .....	6,662	6,560	6,827	7,015	7,087	7,142	7,337	7,600	7,715	8,158	8,572	8,274	8,640
16 to 24 years .....	2,358	2,238	2,308	2,382	2,426	2,463	2,428	2,463	2,617	2,682	2,770	2,680	2,864
16 to 19 years .....	1,163	1,080	1,140	1,164	1,138	1,169	1,172	1,192	1,307	1,233	1,353	1,283	1,339
16 to 17 years .....	575	460	474	501	506	508	507	524	541	480	576	578	539
18 to 19 years .....	614	626	661	651	654	657	662	665	745	741	785	709	826
20 to 24 years .....	1,195	1,158	1,168	1,218	1,288	1,294	1,256	1,271	1,310	1,449	1,417	1,397	1,525
25 years and over .....	4,263	4,301	4,470	4,610	4,652	4,630	4,910	5,160	5,162	5,501	5,811	5,678	5,715
25 to 54 years .....	3,814	3,825	3,986	4,039	4,136	4,105	4,403	4,664	4,618	4,940	5,205	5,117	5,134
55 years and over .....	474	448	493	528	514	536	513	501	510	582	638	588	624
Men, 16 years and over .....	3,668	3,645	3,795	3,889	3,961	3,982	4,109	4,277	4,292	4,706	4,962	4,743	4,957
16 to 24 years .....	1,277	1,255	1,266	1,268	1,319	1,325	1,335	1,363	1,461	1,520	1,638	1,566	1,577
16 to 19 years .....	631	597	626	644	637	633	644	662	681	662	778	691	773
16 to 17 years .....	303	239	259	284	273	263	280	295	278	287	364	304	291
18 to 19 years .....	341	353	366	357	375	368	367	366	381	375	421	389	495
20 to 24 years .....	646	658	640	624	682	692	691	701	780	858	860	875	804
25 years and over .....	2,352	2,360	2,499	2,595	2,616	2,630	2,764	2,937	2,897	3,201	3,344	3,246	3,328
25 to 54 years .....	2,079	2,036	2,195	2,230	2,284	2,299	2,448	2,625	2,535	2,847	2,951	2,888	2,953
55 years and over .....	300	281	320	333	337	344	335	316	319	367	399	390	410
Women, 16 years and over .....	2,994	2,915	3,032	3,126	3,126	3,160	3,228	3,323	3,423	3,452	3,610	3,531	3,683
16 to 24 years .....	1,081	983	1,042	1,114	1,107	1,138	1,093	1,100	1,156	1,162	1,132	1,113	1,287
16 to 19 years .....	532	483	514	520	501	536	528	530	626	571	575	592	566
16 to 17 years .....	272	221	215	217	233	245	227	229	263	193	212	274	248
18 to 19 years .....	273	273	295	294	279	289	295	299	364	366	364	320	331
20 to 24 years .....	549	500	528	594	606	602	565	570	530	591	557	521	721
25 years and over .....	1,911	1,941	1,971	2,015	2,036	2,000	2,146	2,223	2,265	2,300	2,467	2,432	2,389
25 to 54 years .....	1,735	1,789	1,791	1,809	1,852	1,806	1,955	2,039	2,083	2,092	2,254	2,229	2,182
55 years and over .....	174	167	173	195	177	192	178	185	191	214	239	198	214

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

(Civilian workers)

Sex and age	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total, 18 years and over .....	5.3	5.3	5.5	5.6	5.7	5.7	5.9	6.1	6.2	6.5	6.8	6.6	6.9
18 to 24 years .....	11.0	10.6	11.0	11.4	11.5	11.7	11.6	11.7	12.4	12.8	13.2	12.8	13.8
18 to 19 years .....	15.4	14.7	15.8	16.6	15.7	16.2	16.4	16.6	18.2	17.1	18.7	18.1	19.1
18 to 17 years .....	19.4	16.8	17.6	18.8	18.4	18.7	18.6	19.1	19.6	16.9	20.9	21.2	20.4
18 to 19 years .....	13.3	13.7	14.5	14.9	14.5	14.6	15.0	15.0	16.7	16.9	17.5	16.3	18.9
20 to 24 years .....	8.6	8.4	8.5	8.8	9.3	9.4	9.1	9.2	9.5	10.5	10.3	10.1	11.2
25 years and over .....	4.1	4.2	4.3	4.4	4.5	4.5	4.7	5.0	5.0	5.3	5.6	5.4	5.5
25 to 54 years .....	4.3	4.3	4.5	4.6	4.7	4.6	5.0	5.3	5.2	5.6	5.8	5.7	5.7
55 years and over .....	3.1	2.9	3.2	3.4	3.3	3.5	3.3	3.3	3.4	3.8	4.2	3.8	4.1
Men, 16 years and over .....	5.4	5.3	5.6	5.7	5.8	5.8	6.0	6.2	6.3	6.9	7.2	6.9	7.2
16 to 24 years .....	11.4	11.3	11.5	11.7	11.9	12.0	12.1	12.3	13.2	13.8	14.9	14.3	14.5
16 to 19 years .....	16.0	15.7	16.8	17.6	16.8	16.7	17.1	17.4	18.2	17.7	20.7	19.3	21.1
18 to 17 years .....	19.8	16.8	18.6	20.7	18.9	18.4	19.2	20.1	18.7	19.1	25.0	22.0	21.2
18 to 19 years .....	14.2	14.9	15.5	15.7	16.0	15.6	15.8	15.7	16.8	16.8	18.2	17.7	21.7
20 to 24 years .....	8.8	9.0	8.8	8.6	9.4	9.6	9.5	9.6	10.7	11.8	11.8	11.9	11.2
25 years and over .....	4.1	4.1	4.4	4.5	4.6	4.6	4.8	5.1	5.1	5.6	5.8	5.6	5.8
25 to 54 years .....	4.3	4.2	4.6	4.6	4.7	4.7	5.0	5.4	5.2	5.9	6.1	5.9	6.1
55 years and over .....	3.4	3.2	3.6	3.8	3.8	3.9	3.8	3.6	3.7	4.2	4.6	4.4	4.7
Women, 16 years and over .....	5.3	5.1	5.4	5.5	5.5	5.6	5.7	5.9	6.1	6.1	6.4	6.2	6.5
16 to 24 years .....	10.6	9.8	10.4	11.2	11.0	11.4	11.0	11.1	11.6	11.7	11.4	11.2	13.1
16 to 19 years .....	14.7	13.6	14.7	15.4	14.4	15.6	15.6	15.6	18.1	16.4	16.6	16.9	16.9
16 to 17 years .....	19.0	16.3	16.6	16.9	17.8	18.9	17.8	17.9	20.7	14.4	16.3	20.4	19.5
18 to 19 years .....	12.4	12.4	13.5	14.0	12.9	13.4	14.2	14.2	16.7	17.1	16.8	14.9	15.8
20 to 24 years .....	8.4	7.7	8.1	9.0	9.2	9.2	8.6	8.7	8.1	9.1	8.6	8.1	11.1
25 years and over .....	4.1	4.2	4.2	4.3	4.4	4.3	4.6	4.8	4.9	4.9	5.3	5.2	5.1
25 to 54 years .....	4.3	4.5	4.5	4.5	4.6	4.5	4.9	5.1	5.2	5.2	5.6	5.5	5.4
55 years and over .....	2.6	2.5	2.6	2.9	2.7	2.9	2.7	2.8	2.9	3.3	3.6	3.0	3.3

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Unemployment rates)

Category	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	5.3	5.3	5.5	5.6	5.7	5.7	5.9	6.1	6.2	6.5	6.8	6.6	6.9
Men, 20 years and over .....	4.7	4.7	4.9	5.0	5.1	5.2	5.4	5.6	5.6	6.3	6.5	6.2	6.5
Women, 20 years and over .....	4.6	4.6	4.7	4.9	4.9	4.9	5.1	5.3	5.3	5.4	5.7	5.5	5.8
Both sexes, 16 to 19 years .....	15.4	14.7	15.8	16.6	15.7	16.2	16.4	16.6	18.2	17.1	18.7	18.1	19.1
White .....	4.6	4.5	4.7	4.8	4.8	4.9	5.0	5.3	5.5	5.9	6.2	5.8	6.1
Black and other .....	9.5	9.6	10.3	10.4	10.8	10.6	11.0	11.1	10.7	10.7	11.1	11.2	11.5
Black .....	10.6	10.7	11.4	11.7	11.9	11.7	12.2	12.2	12.1	11.8	12.3	12.6	13.0
Hispanic origin .....	7.7	7.3	7.9	7.9	8.5	8.2	8.6	9.3	9.3	9.5	10.3	9.0	9.7
Married men, spouse present .....	3.3	3.2	3.3	3.5	3.5	3.5	3.7	3.8	4.0	4.3	4.5	4.4	4.4
Married women, spouse present .....	3.6	3.7	3.6	3.9	3.9	3.9	4.1	4.1	4.1	4.4	4.8	4.5	4.6
Women who maintain families .....	7.5	8.0	8.3	8.4	8.7	8.5	8.7	8.7	9.0	9.1	9.0	9.9	9.1
Full-time workers .....	4.9	4.9	5.1	5.3	5.4	5.5	5.7	5.8	6.0	6.4	6.5	6.3	6.5
Part-time workers .....	7.4	7.5	7.8	7.7	7.2	7.1	7.3	7.6	7.7	7.6	9.1	8.1	9.0
Unemployed 15 weeks and over <sup>1</sup> .....	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.8
Labor force time lost <sup>2</sup> .....	6.0	5.9	6.1	6.3	6.4	6.6	6.7	6.9	7.0	7.5	7.7	7.6	7.7
<b>OCCUPATION<sup>3</sup></b>													
Managerial and professional specialty .....	2.0	2.2	2.1	2.2	2.3	2.2	2.2	2.2	2.7	2.4	2.7	2.6	3.0
Technical, sales, and administrative support .....	3.8	4.1	4.1	4.3	4.3	4.4	4.6	4.8	4.5	5.0	5.3	5.2	5.3
Precision production, craft, and repair .....	5.4	5.2	5.7	6.2	6.5	6.5	6.9	7.0	7.3	7.6	7.6	7.8	8.0
Operators, fabricators, and laborers .....	8.3	8.1	8.2	8.3	8.2	8.9	9.4	9.6	10.0	11.6	11.2	10.8	10.2
Farming, forestry, and fishing .....	5.3	6.2	6.8	6.3	6.2	5.5	6.2	6.9	7.6	7.9	9.1	6.5	7.1
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	5.5	5.4	5.5	5.7	5.8	5.9	6.2	6.3	6.4	6.9	7.2	7.0	7.2
Goods-producing industries .....	6.7	6.2	6.7	6.9	7.1	7.3	7.9	8.1	8.2	9.1	9.0	9.2	9.0
Mining .....	3.7	4.0	4.5	4.7	3.8	4.1	4.7	5.8	7.5	6.0	7.1	7.5	6.4
Construction .....	11.3	9.8	10.5	11.2	12.0	13.0	13.3	14.0	14.5	15.5	14.1	15.0	14.7
Manufacturing .....	5.5	5.2	5.7	5.8	5.8	5.8	6.5	6.5	6.4	7.4	7.6	7.6	7.4
Durable goods .....	5.5	5.2	5.7	5.9	6.0	5.9	6.9	6.6	6.8	8.1	8.2	8.3	7.7
Nondurable goods .....	5.4	5.3	5.7	5.6	5.4	5.7	5.9	6.4	5.9	6.5	6.8	6.6	7.0
Service-producing industries .....	5.0	5.0	5.0	5.2	5.3	5.3	5.4	5.4	5.6	5.9	6.4	6.0	6.4
Transportation and public utilities .....	3.3	3.2	3.7	4.0	3.9	4.1	4.1	4.2	4.4	5.3	5.5	5.4	5.5
Wholesale and retail trade .....	6.2	6.3	6.1	6.3	6.6	6.7	6.7	6.6	7.0	7.4	7.9	7.3	7.7
Finance and service industries .....	4.4	4.5	4.5	4.7	4.7	4.5	4.7	4.8	4.9	5.0	5.6	5.2	5.7
Government workers .....	2.5	2.9	2.8	2.8	2.8	2.8	2.8	2.7	3.0	3.2	3.7	3.2	3.2
Agricultural wage and salary workers .....	8.1	9.8	10.1	9.5	9.3	8.5	9.8	12.3	11.9	11.5	13.8	9.9	11.2

<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.

<sup>3</sup> Seasonally adjusted data for service occupations are not available because the seasonal components are small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Weeks of unemployment	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>DURATION</b>													
Less than 5 weeks .....	3,078	3,100	3,142	3,275	3,087	3,139	3,277	3,280	3,410	3,473	3,515	3,287	3,654
5 to 14 weeks .....	2,194	2,085	2,166	2,077	2,452	2,391	2,334	2,518	2,490	2,736	2,904	2,745	2,717
15 weeks and over .....	1,404	1,436	1,508	1,568	1,605	1,591	1,727	1,739	1,829	1,975	2,184	2,229	2,234
15 to 26 weeks .....	776	777	807	822	861	893	938	940	981	1,053	1,236	1,226	1,206
27 weeks and over .....	628	659	701	746	744	698	789	799	848	921	947	1,003	1,028
Average (mean) duration, in weeks .....	11.6	12.0	12.1	12.3	12.4	12.0	12.4	12.4	12.4	12.8	13.0	13.7	12.9
Median duration, in weeks .....	5.3	5.2	5.2	5.3	6.1	5.9	5.9	5.9	5.9	6.1	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 .....	46.1	46.8	46.1	47.3	43.2	44.1	44.7	43.5	44.1	42.4	40.9	39.8	42.5
5 to 14 weeks .....	32.9	31.5	31.8	30.0	34.3	33.6	31.8	33.4	32.2	33.4	33.8	33.2	31.6
15 weeks and over .....	21.0	21.7	22.1	22.7	22.5	22.3	23.5	23.1	23.7	24.1	25.4	27.0	26.0
15 to 26 weeks .....	11.6	11.7	11.8	11.9	12.1	12.5	12.8	12.5	12.7	12.9	14.4	14.8	14.0
27 weeks and over .....	9.4	10.0	10.3	10.8	10.4	9.8	10.8	10.6	11.0	11.3	11.0	12.1	11.9

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

(Numbers in thousands)

Reasons for unemployment	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	3,173	3,203	3,145	3,388	3,519	3,563	3,756	3,797	4,068	4,515	4,703	4,528	4,657
On layoff .....	980	947	977	993	1,111	1,056	1,136	1,150	1,131	1,485	1,430	1,370	1,343
Other job losers .....	2,193	2,256	2,168	2,395	2,408	2,507	2,620	2,647	2,938	3,031	3,273	3,158	3,314
Job leavers .....	1,017	999	1,020	989	954	981	996	1,024	899	989	1,080	987	1,053
Reentrants .....	1,828	1,839	1,920	1,872	1,952	1,911	1,926	2,128	2,044	1,994	2,090	2,053	2,202
New entrants .....	677	549	677	669	663	684	655	662	672	633	699	741	779
<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 .....	47.4	48.6	46.5	49.0	49.6	49.9	51.2	49.9	53.0	55.5	54.9	54.5	53.6
On layoff .....	14.6	14.4	14.4	14.4	15.7	14.8	15.5	15.1	14.7	18.3	16.7	16.5	15.5
Other job losers .....	32.8	34.2	32.1	34.6	34.0	35.1	35.7	34.8	38.2	37.3	38.2	38.0	38.1
Job leavers .....	15.2	15.2	15.1	14.3	13.5	13.7	13.6	13.5	11.7	12.2	12.6	11.9	12.1
Reentrants .....	27.3	27.9	28.4	27.1	27.5	26.8	26.3	28.0	26.6	24.5	24.4	24.7	25.3
New entrants .....	10.1	8.3	10.0	9.7	9.4	9.6	8.9	8.7	8.7	7.8	8.2	8.9	9.0
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	2.5	2.6	2.5	2.7	2.8	2.9	3.0	3.0	3.3	3.6	3.8	3.6	3.7
Job leavers .....	.8	.8	.8	.8	.8	.8	.8	.8	.7	.8	.9	.8	.8
Reentrants .....	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.7	1.6	1.6	1.7	1.6	1.8
New entrants .....	.5	.4	.5	.5	.5	.5	.5	.5	.5	.5	.6	.6	.6

**ESTABLISHMENT DATA  
HISTORICAL EMPLOYMENT**

**B-1. Employees on nonfarm payrolls by major industry, 1940 to date**

(In thousands)

Year and month	Total		Goods-producing						Service-producing						Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Federal	State	Local		
Annual averages																	
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,038	1,841	4,909	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	1,966	5,244	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	1,912	5,206	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	1,828	5,154	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	1,851	5,208	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	1,955	5,359	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	2,298	6,077	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	2,478	6,477	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	2,612	6,659	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	2,610	6,654	1,828	5,239	1,908	( <sup>1</sup> )	( <sup>1</sup> )		
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,643	6,743	1,888	5,356	1,928	( <sup>1</sup> )	( <sup>1</sup> )		
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,735	7,007	1,956	5,547	2,302	( <sup>1</sup> )	( <sup>1</sup> )		
1952	48,793	42,185	20,198	898	2,668	16,632	28,585	4,248	2,821	7,184	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	2,862	7,385	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	2,875	7,360	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	2,934	7,601	2,298	6,240	2,187	1,168	3,558		
1956	52,369	45,091	21,104	822	3,039	17,243	31,266	4,244	3,027	7,831	2,389	6,497	2,209	1,250	3,819		
1957	52,853	45,239	20,964	828	2,962	17,174	31,889	4,241	3,037	7,848	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	2,989	7,761	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	3,092	8,035	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	3,153	8,238	2,628	7,378	2,270	1,536	4,547		
1961	53,999	45,404	18,857	672	2,859	16,326	34,142	3,903	3,142	8,195	2,688	7,619	2,279	1,607	4,708		
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,207	8,359	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	3,258	8,520	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	3,347	8,812	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	3,477	9,239	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	3,608	9,637	3,058	9,498	2,564	2,141	6,080		
1967	65,803	54,413	23,308	613	3,248	19,447	42,985	4,268	3,700	9,906	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	3,791	10,308	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	3,919	10,785	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	4,006	11,034	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	4,014	11,338	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	4,127	11,822	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	4,291	12,315	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	4,447	12,539	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	4,430	12,630	4,165	13,892	2,748	3,179	8,758		
1976	79,382	64,511	23,352	779	3,576	18,997	56,030	4,582	4,562	13,193	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	4,723	13,792	4,467	15,302	2,727	3,377	9,023		
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,985	14,556	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	5,221	14,972	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	5,292	15,018	5,190	17,890	2,866	3,610	9,765		
1981	91,156	75,126	25,497	1,139	4,188	20,170	65,659	5,165	5,376	15,172	5,298	18,619	2,772	3,640	9,619		
1982	89,566	73,729	23,813	1,128	3,905	18,781	65,753	5,082	5,296	15,161	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	5,286	15,595	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	5,574	16,526	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	5,736	17,336	5,955	21,999	2,875	3,832	9,687		
1986	99,525	82,832	24,558	777	4,816	18,965	74,967	5,255	5,774	17,909	6,283	23,053	2,899	3,893	9,901		
1987	102,200	85,190	24,708	717	4,967	19,024	77,492	5,372	5,865	18,462	6,547	24,235	2,943	3,967	10,100		
1988	105,536	88,150	25,173	713	5,110	19,350	80,363	5,527	6,055	19,077	6,649	25,669	2,971	4,076	10,339		
1989	108,329	90,550	25,322	693	5,187	19,442	83,007	5,644	6,221	19,549	6,695	27,120	2,988	4,182	10,609		
1990	109,971	91,649	24,958	711	5,136	19,111	85,014	5,826	6,205	19,683	6,739	28,240	3,085	4,303	10,934		
Monthly data, seasonally adjusted																	
<b>1990:</b>																	
May	110,304	91,764	25,141	713	5,203	19,225	85,163	5,820	6,212	19,701	6,739	28,151	3,347	4,287	10,906		
June	110,435	91,858	25,093	718	5,182	19,193	85,342	5,831	6,220	19,714	6,746	28,254	3,337	4,311	10,929		
July	110,269	91,839	25,027	717	5,145	19,165	85,242	5,832	6,215	19,710	6,745	28,310	3,162	4,311	10,957		
August	110,160	91,839	24,937	713	5,111	19,113	85,223	5,839	6,211	19,714	6,750	28,388	3,038	4,318	10,965		
September	110,113	91,785	24,842	711	5,088	19,043	85,271	5,854	6,204	19,698	6,750	28,437	2,994	4,328	11,006		
October	109,982	91,638	24,705	710	5,022	18,973	85,277	5,855	6,190	19,663	6,746	28,479	2,980	4,339	11,025		
November	109,761	91,406	24,481	712	4,962	18,807	85,280	5,852	6,180	19,628	6,740	28,525	2,964	4,345	11,046		
December	109,621	91,268	24,375	715	4,911	18,749	85,246	5,867	6,166	19,579	6,733	28,548	2,948	4,347	11,058		
<b>1991:</b>																	
January	109,418	91,053	24,181	713	4,797	18,671	85,237	5,866	6,138	19,542	6,736	28,590	2,952	4,352	11,061		
February	109,160	90,771	24,039	715	4,792	18,532	85,121	5,834	6,119	19,464	6,732	28,583	2,951	4,354	11,084		
March	108,902	90,495	23,877	714	4,720	18,443	85,025	5,824	6,105	19,378	6,735	28,576	2,951	4,359	11,097		
April <sup>P</sup>	108,722	90,302	23,793	711	4,683	18,399	84,929	5,815	6,082	19,325	6,718	28,569	2,953	4,348	11,119		
May <sup>P</sup>	108,781	90,351	23,812	705	4,696	18,411	84,969	5,822	6,079	19,312	6,714	28,612	2,947	4,355	11,126		

<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 nonfarm total for the March 1959 benchmark month.

<sup>P</sup> = preliminary.

NOTE: Effective with the release of May 1991 data, BLS has revised establishment survey data to reflect new benchmarks and updated seasonal adjustment factors. Because of these revisions, unadjusted data (beginning April 1989) and seasonally adjusted data (beginning January 1986) differ from those previously published. See the article in this issue for additional information.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonfarm payrolls by detailed industry**

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Total</b> .....		109,774	110,721	108,147	108,576	109,195	-	-	-	-	-
<b>Total private</b> .....		91,138	91,826	89,373	89,815	90,395	73,799	74,428	72,079	72,523	73,069
<b>Mining</b> .....		702	712	699	704	704	502	511	498	502	500
Metal mining .....	10	57.9	59.0	58.9	59.5	-	46.0	46.9	46.1	46.6	-
Iron ores .....	101	8.8	9.1	8.8	9.0	-	7.3	7.5	6.6	6.8	-
Copper ores .....	102	14.9	15.0	15.5	15.7	-	12.1	12.2	12.7	12.9	-
Coal mining .....	12	147.7	149.6	142.3	142.0	-	119.6	121.5	114.9	114.4	-
Bituminous coal and lignite mining .....	122	138.2	140.0	132.8	132.5	-	111.8	113.7	107.3	106.8	-
Oil and gas extraction .....	13	385.3	389.9	395.6	394.6	393.7	252.0	255.5	260.6	260.3	-
Crude petroleum and natural gas .....	131	191.6	192.2	189.1	188.6	-	92.5	92.8	93.0	93.2	-
Oil and gas field services .....	138	189.3	193.4	202.0	201.5	-	156.1	159.3	164.3	163.9	-
Nonmetallic minerals, except fuels .....	14	111.3	113.7	102.6	107.5	-	84.5	86.6	76.1	80.9	-
Crushed and broken stone .....	142	41.2	42.1	37.7	40.1	-	32.1	32.8	28.2	30.5	-
Sand and gravel .....	144	33.8	35.2	29.8	32.0	-	-	-	-	-	-
Chemical and fertilizer minerals .....	147	16.6	16.7	16.4	16.4	-	-	-	-	-	-
<b>Construction</b> .....		5,049	5,238	4,366	4,547	4,729	3,899	4,082	3,264	3,431	3,610
General building contractors .....	15	1,280.5	1,321.0	1,121.4	1,140.4	1,171.3	916.9	955.8	782.1	799.5	-
Residential building construction .....	152	641.4	663.3	552.5	561.8	-	445.5	466.1	372.0	380.5	-
Operative builders .....	153	39.6	39.8	32.1	31.9	-	17.2	17.2	12.0	11.7	-
Nonresidential building construction .....	154	599.5	617.9	536.8	546.7	-	454.2	472.5	398.1	407.3	-
Heavy construction, except building .....	16	746.2	796.8	617.5	683.3	-	620.9	671.4	497.3	562.6	-
Highway and street construction .....	161	223.2	261.3	172.6	209.4	-	182.8	220.9	133.5	169.2	-
Heavy construction, except highway .....	162	523.0	535.5	444.9	473.9	-	438.1	450.5	363.8	393.4	-
Special trade contractors .....	17	3,021.8	3,120.5	2,627.2	2,723.6	-	2,360.9	2,454.4	1,984.4	2,069.3	-
Plumbing, heating, and air conditioning .....	171	648.5	652.1	599.2	599.6	-	474.6	478.5	429.6	429.7	-
Painting and paper hanging .....	172	169.0	179.6	144.9	151.1	-	139.2	149.3	115.7	120.8	-
Electrical work .....	173	538.0	547.3	515.7	512.8	-	414.6	424.0	390.0	386.6	-
Masonry, stonework, and plastering .....	174	480.2	497.5	392.6	406.6	-	410.8	426.9	328.8	340.1	-
Carpentry and floor work .....	175	202.4	204.1	158.4	166.4	-	153.8	155.0	113.3	121.6	-
Roofing, siding, and sheet metal work .....	176	205.5	212.6	177.7	188.5	-	163.3	169.6	136.0	145.8	-
<b>Manufacturing</b> .....		19,164	19,178	18,316	18,313	18,359	13,023	13,030	12,319	12,330	12,377
<b>Durable goods</b> .....		11,207	11,215	10,534	10,541	10,566	7,450	7,455	6,914	6,933	6,962
Lumber and wood products .....	24	740.6	748.3	675.6	682.5	695.3	609.7	616.5	549.5	556.3	568.9
Logging .....	241	80.6	83.9	75.4	73.7	-	65.6	68.8	61.1	59.5	-
Sawmills and planing mills .....	242	200.7	202.4	186.5	188.8	-	175.0	176.4	160.7	162.9	-
Sawmills and planing mills, general .....	2421	162.1	163.7	150.4	152.2	-	141.2	142.5	129.3	131.0	-
Hardwood dimension and flooring mills .....	2426	35.6	35.8	33.3	33.6	-	31.2	31.4	29.0	29.3	-
Millwork, plywood, and structural members .....	243	267.4	270.0	233.4	238.0	-	215.6	217.8	184.7	189.1	-
Millwork .....	2431	108.0	109.5	94.1	96.7	-	84.9	86.2	71.5	73.8	-
Wood kitchen cabinets .....	2434	73.4	74.3	66.6	67.3	-	58.2	58.9	52.4	53.2	-
Hardwood veneer and plywood .....	2435	24.1	24.2	21.2	21.1	-	20.8	20.9	18.1	18.1	-
Softwood veneer and plywood .....	2436	33.9	33.7	29.9	30.3	-	30.4	30.2	26.7	27.0	-
Wood containers .....	244	45.0	45.3	43.9	43.8	-	38.1	38.3	36.7	36.8	-
Wood buildings and mobile homes .....	245	59.9	60.3	55.2	57.7	-	44.8	45.4	40.9	43.1	-
Mobile homes .....	2451	40.7	41.3	39.0	41.0	-	32.7	33.4	31.0	32.8	-
Miscellaneous wood products .....	249	87.0	86.4	81.2	80.5	-	70.6	69.8	65.4	64.9	-
Furniture and fixtures .....	25	514.8	512.4	479.2	479.9	480.5	408.1	405.1	375.0	376.4	377.0
Household furniture .....	251	297.0	294.2	275.6	276.2	-	249.0	246.0	228.4	229.2	-
Wood household furniture .....	2511	129.9	128.7	122.1	122.2	-	112.1	110.7	104.4	104.4	-
Upholstered household furniture .....	2512	98.0	97.7	91.6	91.7	-	81.9	81.6	75.6	75.7	-
Metal household furniture .....	2514	26.4	25.3	23.5	23.5	-	21.3	20.3	18.8	18.8	-
Mattresses and bedsprings .....	2515	29.2	29.2	27.7	27.9	-	22.4	22.3	20.9	21.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA**  
**EMPLOYMENT**  
**NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
<b>Furniture and fixtures—Continued</b>											
Office furniture .....	252	68.4	68.3	64.4	63.8	-	50.7	50.9	47.4	46.9	-
Public building and related furniture .....	253	33.5	33.6	29.5	30.0	-	26.1	26.2	22.7	23.2	-
Partitions and fixtures .....	254	78.5	79.0	75.9	76.2	-	56.6	56.5	54.3	54.8	-
Miscellaneous furniture and fixtures .....	259	37.4	37.3	33.8	33.7	-	25.7	25.5	22.2	22.3	-
Stone, clay, and glass products .....	32	560.8	566.7	509.0	518.8	524.1	435.9	440.7	389.8	399.2	403.8
Flat glass .....	321	16.2	16.5	14.7	14.9	-	12.7	13.0	11.4	11.7	-
Glass and glassware, pressed or blown .....	322	83.1	83.1	79.9	79.5	-	71.6	71.4	68.6	68.1	-
Glass containers .....	3221	39.7	40.2	38.2	38.0	-	35.8	36.2	34.5	34.1	-
Pressed and blown glass, nec .....	3229	43.4	42.9	41.7	41.5	-	35.8	35.2	34.1	34.0	-
Products of purchased glass .....	323	60.3	60.6	53.7	54.6	-	46.0	46.3	40.0	41.1	-
Cement, hydraulic .....	324	18.0	18.1	17.9	17.9	-	13.8	13.8	13.7	13.7	-
Structural clay products .....	325	36.5	36.6	32.0	32.5	-	28.3	28.2	24.2	24.7	-
Pottery and related products .....	326	39.2	38.9	35.7	35.9	-	30.9	30.5	28.0	28.1	-
Concrete, gypsum, and plaster products .....	327	209.6	214.5	183.8	192.2	-	159.8	164.4	137.0	144.9	-
Concrete block and brick .....	3271	20.4	20.7	17.5	18.1	-	13.3	13.6	10.9	11.5	-
Concrete products, nec .....	3272	72.7	73.1	64.8	65.9	-	54.7	55.0	47.9	49.2	-
Ready-mixed concrete .....	3273	97.5	101.8	84.0	90.8	-	77.1	81.2	64.7	70.9	-
Misc. nonmetallic mineral products .....	329	82.4	82.4	76.9	76.7	-	61.1	61.0	56.4	56.2	-
Abrasive products .....	3291	21.7	21.7	20.4	20.2	-	15.2	15.3	14.8	14.6	-
Asbestos products .....	3292	6.6	6.6	6.0	5.8	-	4.9	5.0	4.5	4.4	-
Mineral wool .....	3296	24.2	24.2	21.9	22.1	-	-	-	-	-	-
Primary metal industries .....	33	758.1	758.4	723.7	722.0	723.1	576.7	576.6	545.6	544.2	545.1
Blast furnaces and basic steel products .....	331	274.9	275.1	261.2	261.9	263.1	211.3	211.5	198.8	199.3	200.1
Blast furnaces and steel mills .....	3312	206.9	207.1	196.0	197.5	-	160.5	160.8	150.4	151.9	-
Steel pipe and tubes .....	3317	25.4	25.5	24.5	24.2	-	19.1	19.0	18.1	17.6	-
Iron and steel foundries .....	332	132.5	132.8	127.2	125.9	-	105.6	105.4	100.8	99.5	-
Gray and ductile iron foundries .....	3321	81.7	81.3	76.7	75.9	-	66.6	66.1	61.8	61.1	-
Malleable iron foundries .....	3322	9.0	8.9	8.6	7.8	-	6.9	6.8	6.5	5.6	-
Steel foundries, nec .....	3325	26.4	27.2	26.1	26.3	-	20.5	21.1	20.2	20.5	-
Primary nonferrous metals .....	333	45.9	45.9	45.8	45.7	-	34.1	33.6	34.2	34.3	-
Primary aluminum .....	3334	25.9	25.9	25.8	25.9	-	19.9	19.5	20.2	20.4	-
Nonferrous rolling and drawing .....	335	173.2	173.4	166.7	166.4	-	124.3	125.2	118.8	118.8	-
Copper rolling and drawing .....	3351	23.2	22.8	21.8	21.8	-	17.6	17.4	16.7	16.7	-
Aluminum sheet, plate, and foil .....	3353	28.4	28.6	28.4	28.2	-	19.0	19.3	18.9	18.7	-
Nonferrous wire drawing and insulating .....	3357	73.4	73.8	70.4	70.2	-	53.6	54.3	50.8	50.8	-
Nonferrous foundries (castings) .....	336	85.4	85.3	80.3	79.7	-	67.7	67.5	62.5	61.9	-
Aluminum foundries .....	3365	24.7	24.5	23.7	23.6	-	19.6	19.4	18.5	18.4	-
Fabricated metal products .....	34	1,430.8	1,431.7	1,350.5	1,350.0	1,353.4	1,053.6	1,054.5	984.8	984.1	988.8
Metal cans and shipping containers .....	341	51.0	51.1	48.7	48.7	-	43.6	43.7	42.0	42.1	-
Metal cans .....	3411	41.2	41.2	39.9	40.0	-	35.7	35.7	34.9	35.0	-
Cutlery, handtools, and hardware .....	342	132.6	132.6	123.7	122.3	-	97.2	97.2	90.4	89.2	-
Hand and edge tools, and blades and handsaws .....	3423,5	45.0	45.0	42.6	41.9	-	33.0	32.9	30.9	30.3	-
Hardware, nec .....	3429	75.6	75.7	69.7	69.1	-	56.1	56.3	51.7	51.1	-
Plumbing and heating, except electric .....	343	59.8	59.5	55.8	56.1	-	42.6	42.5	39.2	39.2	-
Plumbing fixture fittings and trim .....	3432	26.7	26.5	24.3	24.9	-	19.5	19.6	18.2	18.3	-
Heating equipment, except electric .....	3433	19.4	19.3	18.3	18.2	-	12.8	12.6	11.4	11.4	-
Fabricated structural metal products .....	344	423.7	426.3	403.0	404.2	-	299.8	302.2	281.5	282.0	-
Fabricated structural metal .....	3441	77.8	78.8	74.4	73.2	-	55.7	56.4	52.8	51.9	-
Metal doors, sash, and trim .....	3442	75.2	76.5	68.4	70.3	-	54.1	55.3	47.8	49.5	-
Fabricated plate work (boiler shops) .....	3443	105.9	105.8	105.1	104.7	-	71.1	70.9	70.2	69.6	-
Sheet metal work .....	3444	94.6	94.4	90.1	91.5	-	71.0	71.0	67.4	68.3	-
Architectural metal work .....	3446	29.3	29.4	26.8	26.3	-	20.6	20.8	18.5	18.2	-
Screw machine products, bolts, etc .....	345	97.4	97.0	91.8	91.4	-	74.7	74.1	69.8	69.3	-
Screw machine products .....	3451	46.6	46.5	43.8	43.6	-	37.8	37.6	35.5	35.1	-
Bolts, nuts, rivets, and washers .....	3452	50.8	50.5	48.0	47.8	-	36.9	36.5	34.3	34.2	-
Metal forgings and stampings .....	346	228.9	228.7	209.5	212.6	-	181.5	181.5	163.2	166.5	-
Iron and steel forgings .....	3462	33.2	33.1	32.5	32.7	-	25.5	25.4	24.8	24.9	-
Automotive stampings .....	3465	104.0	104.4	87.9	91.6	-	86.8	87.4	71.5	75.4	-
Metal stampings, nec .....	3469	79.8	79.3	77.8	77.3	-	60.4	59.9	58.5	58.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Fabricated metal products—Continued											
Metal services, nec .....	347	121.2	121.5	116.2	115.0	-	94.9	95.1	90.0	88.8	-
Plating and polishing .....	3471	76.4	76.8	72.7	71.9	-	60.2	60.5	56.4	55.6	-
Metal coating and allied services .....	3479	44.8	44.7	43.5	43.1	-	34.7	34.6	33.6	33.2	-
Ordnance and accessories, nec .....	348	77.3	76.0	72.1	71.2	-	47.5	47.2	45.2	44.9	-
Ammunition, except for small arms, nec .....	3483	46.9	45.8	43.7	42.8	-	26.0	25.5	24.8	24.5	-
Miscellaneous fabricated metal products .....	349	238.9	239.0	229.7	228.5	-	171.8	171.0	163.5	162.1	-
Valves and pipe fittings, nec .....	3494	29.1	28.9	28.0	27.9	-	18.7	18.5	19.3	19.2	-
Misc. fabricated wire products .....	3496	54.1	54.3	50.8	50.8	-	40.9	41.1	37.8	37.7	-
Industrial machinery and equipment .....	35	2,108.2	2,109.1	2,028.3	2,011.6	1,999.6	1,272.5	1,272.5	1,212.9	1,201.0	1,189.6
Engines and turbines .....	351	87.8	89.9	88.3	86.6	-	57.0	58.0	56.6	55.4	-
Turbines and turbine generator sets .....	3511	25.7	26.2	28.3	28.4	-	14.7	15.1	16.6	16.6	-
Internal combustion engines, nec .....	3519	62.1	63.7	60.0	58.2	-	42.3	42.9	40.0	38.8	-
Farm and garden machinery .....	352	111.1	109.7	104.9	102.8	-	82.8	81.9	77.1	75.0	-
Farm machinery and equipment .....	3523	79.6	79.1	76.3	75.1	-	57.3	57.2	54.8	53.9	-
Construction and related machinery .....	353	229.1	229.0	221.4	220.4	-	141.4	141.1	134.2	132.9	-
Construction machinery .....	3531	88.0	88.1	79.4	79.3	-	55.4	55.0	47.7	47.4	-
Mining machinery .....	3532	18.0	18.2	17.4	17.0	-	11.2	11.3	10.5	10.1	-
Oil and gas field machinery .....	3533	41.3	41.2	46.2	46.2	-	24.6	24.8	29.1	29.1	-
Conveyors and conveying equipment .....	3535	33.8	33.7	33.2	33.1	-	18.8	18.7	18.6	18.4	-
Industrial trucks and tractors .....	3537	28.0	27.8	26.3	26.0	-	19.0	18.9	17.4	17.1	-
Metalworking machinery .....	354	332.4	332.0	318.8	316.1	-	237.8	237.2	226.4	224.5	-
Machine tools, metal cutting types .....	3541	47.2	47.1	44.1	43.8	-	30.6	30.4	27.9	27.6	-
Machine tools, metal forming types .....	3542	18.2	18.1	17.0	16.9	-	11.5	11.3	10.5	10.4	-
Special dies, tools, jigs, and fixtures .....	3544	148.3	148.5	144.7	143.7	-	114.7	114.9	111.4	110.6	-
Machine tool accessories .....	3545	56.6	56.2	52.8	52.3	-	39.8	39.5	37.0	36.6	-
Power driven handtools .....	3546	21.4	21.3	20.2	19.7	-	14.9	14.8	13.7	13.4	-
Special industry machinery .....	355	159.9	160.3	151.5	149.8	-	94.9	95.0	87.9	87.0	-
Textile machinery .....	3552	18.4	18.2	17.0	16.8	-	12.2	12.0	11.2	11.3	-
Printing trades machinery .....	3555	25.6	25.6	24.5	24.5	-	14.3	14.3	12.8	13.0	-
Food products machinery .....	3556	23.6	23.8	21.8	21.6	-	14.2	14.3	12.8	12.6	-
General industrial machinery .....	356	248.7	248.2	243.9	242.7	-	159.7	159.0	154.8	153.3	-
Pumps and pumping equipment .....	3561	31.7	31.5	31.2	31.0	-	18.2	17.9	17.7	17.5	-
Ball and roller bearings .....	3562	43.0	43.1	42.4	42.2	-	33.5	33.6	32.8	32.6	-
Air and gas compressors .....	3563	25.7	26.0	26.1	25.8	-	14.6	14.8	14.2	14.0	-
Blowers and fans .....	3564	32.1	32.3	31.4	31.4	-	21.7	21.8	21.1	21.1	-
Speed changers, drives, and gears .....	3566	16.3	16.3	15.9	15.8	-	11.5	11.5	11.2	11.0	-
Power transmission equipment, nec .....	3568	19.8	19.4	18.7	18.8	-	13.6	13.1	12.4	12.3	-
Computer and office equipment .....	357	439.1	438.8	426.8	424.0	-	136.3	136.8	138.0	137.8	-
Electronic computers .....	3571	281.2	280.8	269.7	267.4	-	71.3	71.3	70.2	69.9	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	65.1	65.1	64.6	64.7	-	20.5	20.5	24.7	25.2	-
Refrigeration and service machinery .....	358	181.0	182.4	167.6	165.2	-	128.1	128.9	115.9	113.6	-
Refrigeration and heating equipment .....	3585	124.6	126.0	115.3	113.1	-	91.4	92.3	83.7	81.4	-
Misc. industrial and commercial machinery .....	359	319.1	318.8	305.1	304.0	-	234.5	234.6	222.0	221.5	-
Carburetors, pistons, rings, valves .....	3592	22.8	22.8	20.7	20.9	-	18.6	18.7	16.9	17.0	-
Scales, balances, and industrial machinery, nec .....	3596,9	247.6	247.4	238.8	237.7	-	187.6	187.8	178.5	178.1	-
Electronic and other electrical equipment .....	36	1,685.9	1,682.6	1,594.1	1,590.3	1,588.2	1,066.6	1,062.2	997.9	999.0	997.7
Electric distribution equipment .....	361	98.2	97.5	92.2	92.4	-	68.7	68.1	63.4	63.6	-
Transformers, except electronic .....	3612	49.8	49.5	47.4	47.1	-	35.2	35.0	33.3	33.3	-
Switchgear and switchboard apparatus .....	3613	48.4	48.0	44.8	45.3	-	33.5	33.1	30.1	30.3	-
Electrical industrial apparatus .....	362	170.5	169.9	161.5	160.7	-	119.8	119.1	112.3	111.9	-
Motors and generators .....	3621	84.4	83.9	79.1	78.7	-	66.0	65.4	60.7	60.5	-
Relays and industrial controls .....	3625	66.1	65.9	62.8	62.7	-	40.1	40.0	38.4	38.3	-
Household appliances .....	363	128.0	126.8	116.4	117.6	-	103.7	102.3	91.8	93.1	-
Household refrigerators and freezers .....	3632	28.9	27.5	25.7	27.1	-	24.4	22.7	20.6	22.0	-
Household laundry equipment .....	3633	21.4	21.2	19.6	19.8	-	17.3	17.1	15.5	15.7	-
Electric housewares and fans .....	3634	32.2	32.1	30.4	30.7	-	24.8	24.7	23.0	23.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
<b>Electronic and other electrical equipment—Continued</b>											
Electric lighting and wiring equipment .....	364	191.5	191.3	180.4	178.4	-	138.7	138.0	128.6	128.1	-
Electric lamps .....	3641	24.8	24.7	23.2	23.1	-	21.1	20.9	19.5	19.5	-
Current-carrying wiring devices .....	3643	73.5	73.4	69.9	69.5	-	47.8	47.7	45.5	45.4	-
Noncurrent-carrying wiring devices .....	3644	17.8	18.0	15.9	15.6	-	13.2	13.4	11.4	11.2	-
Residential lighting fixtures .....	3645	23.9	23.5	21.9	21.7	-	17.7	17.2	16.1	16.0	-
Household audio and video equipment .....	365	82.9	82.7	76.7	76.1	-	58.0	57.8	51.2	50.7	-
Household audio and video equipment .....	3651	61.7	61.5	57.7	57.1	-	41.4	41.3	36.8	36.2	-
Communications equipment .....	366	265.5	264.8	251.1	249.4	-	134.1	134.0	125.7	125.6	-
Telephone and telegraph apparatus .....	3661	129.1	128.3	122.9	122.5	-	71.3	70.7	65.1	65.3	-
Electronic components and accessories .....	367	582.9	583.6	558.3	555.3	-	328.7	328.4	318.8	317.3	-
Electron tubes .....	3671	32.2	32.1	29.3	29.0	-	21.0	20.9	19.2	19.2	-
Semiconductors and related devices .....	3674	238.1	239.0	230.1	229.8	-	92.2	92.1	92.5	92.5	-
Electronic components, nec .....	3679	142.4	142.2	134.9	133.6	-	89.7	89.4	86.3	85.6	-
Misc. electrical equipment and supplies .....	369	166.4	166.0	157.5	160.4	-	114.9	114.5	106.1	108.7	-
Storage batteries .....	3691	29.7	29.9	29.3	29.3	-	22.8	23.1	22.0	22.1	-
Engine electrical equipment .....	3694	69.9	70.0	62.4	65.6	-	52.9	52.8	46.2	49.0	-
Transportation equipment .....	37	2,021.0	2,020.7	1,833.3	1,848.4	1,869.2	1,250.5	1,253.1	1,117.1	1,135.0	1,156.4
Motor vehicles and equipment .....	371	837.7	838.5	732.0	756.8	784.2	642.3	643.7	548.2	572.4	599.6
Motor vehicles and car bodies .....	3711	349.2	348.5	293.3	305.3	-	257.1	257.5	209.2	220.4	-
Truck and bus bodies .....	3713	40.6	40.8	35.2	38.5	-	31.8	32.0	26.6	29.4	-
Motor vehicle parts and accessories .....	3714	401.4	402.4	364.4	372.8	-	317.5	318.0	283.0	292.1	-
Truck trailers .....	3715	26.8	27.2	23.4	22.8	-	21.1	21.5	17.9	17.4	-
Aircraft and parts .....	372	713.9	711.4	663.3	657.6	-	343.9	343.2	322.9	319.7	-
Aircraft .....	3721	383.0	381.9	347.0	344.7	-	164.7	163.8	149.1	148.1	-
Aircraft engines and engine parts .....	3724	151.8	151.1	146.9	144.9	-	76.9	77.0	75.9	74.7	-
Aircraft parts and equipment, nec .....	3728	179.1	178.4	169.4	168.0	-	102.3	102.4	97.9	96.9	-
Ship and boat building and repairing .....	373	188.7	190.8	177.4	175.4	-	141.9	144.5	135.6	134.2	-
Ship building and repairing .....	3731	125.8	128.2	129.0	127.1	-	90.1	92.8	95.9	94.6	-
Boat building and repairing .....	3732	62.9	62.6	48.4	48.3	-	51.8	51.7	39.7	39.6	-
Railroad equipment .....	374	33.0	33.1	31.7	30.9	-	24.4	24.5	23.0	22.3	-
Guided missiles, space vehicles, and parts .....	376	188.3	187.3	176.2	173.6	-	58.2	57.1	53.4	51.0	-
Guided missiles and space vehicles .....	3761	134.7	134.2	127.0	125.3	-	37.6	36.6	36.1	34.6	-
Miscellaneous transportation equipment .....	379	46.1	46.3	40.1	41.6	-	29.9	30.3	25.2	26.6	-
Travel trailers and campers .....	3792	17.1	17.3	13.8	14.9	-	13.1	13.4	10.4	11.5	-
Instruments and related products .....	38	1,010.4	1,007.9	976.6	974.2	969.9	502.7	500.6	480.2	477.7	475.2
Search and navigation equipment .....	381	287.4	286.2	266.9	264.7	-	96.3	94.8	84.2	83.2	-
Measuring and controlling devices .....	382	326.2	325.0	311.9	310.2	-	182.0	182.0	171.5	169.5	-
Environmental controls .....	3822	49.5	49.3	45.9	45.1	-	33.3	33.4	30.8	30.1	-
Process control instruments .....	3823	67.2	67.7	65.8	65.1	-	35.0	35.2	33.7	33.0	-
Instruments to measure electricity .....	3825	92.9	92.3	87.2	87.3	-	46.8	46.6	44.6	44.6	-
Medical instruments and supplies .....	384	243.3	243.7	248.8	250.0	-	143.0	143.7	145.0	145.4	-
Surgical and medical instruments .....	3841	98.3	98.6	102.0	103.0	-	56.5	56.9	60.3	61.2	-
Surgical appliances and supplies .....	3842	92.8	93.0	95.6	95.6	-	58.1	58.5	61.1	61.0	-
Ophthalmic goods .....	385	43.3	42.3	39.6	39.8	-	30.0	29.0	27.7	27.8	-
Photographic equipment and supplies .....	386	99.5	100.1	99.5	99.7	-	43.3	43.0	44.1	44.2	-
Watches, clocks, watchcases, and parts .....	387	10.7	10.6	9.9	9.8	-	8.1	8.1	7.7	7.6	-
Miscellaneous manufacturing industries .....	39	375.9	377.3	363.8	362.9	362.4	273.3	273.4	260.7	260.5	259.7
Jewelry, silverware, and plated ware .....	391	52.1	52.1	50.7	50.8	-	36.5	36.6	35.7	36.0	-
Jewelry, precious metal .....	3911	38.0	38.0	37.0	37.1	-	26.3	26.5	26.0	26.2	-
Musical instruments .....	393	12.7	12.7	12.3	12.3	-	10.4	10.4	10.1	10.0	-
Toys and sporting goods .....	394	103.4	104.1	102.1	101.8	-	75.4	75.3	74.1	74.1	-
Dolls, games, toys, and children's vehicles .....	3942,4	41.8	42.2	42.5	42.6	-	29.4	29.3	29.9	30.1	-
Sporting and athletic goods, nec .....	3949	61.6	61.9	59.6	59.2	-	46.0	46.0	44.2	44.0	-
Pens, pencils, office, and art supplies .....	395	34.3	34.3	32.5	32.3	-	24.1	24.0	22.6	22.5	-
Costume jewelry and notions .....	396	33.6	34.1	31.4	31.1	-	26.1	26.3	22.6	22.4	-
Costume jewelry .....	3961	20.8	21.3	19.9	19.6	-	16.1	16.3	13.9	13.7	-
Miscellaneous manufactures .....	399	139.8	140.0	134.8	134.6	-	100.8	100.8	95.6	95.5	-
Signs and advertising specialties .....	3993	57.3	56.9	53.5	52.9	-	39.9	39.6	36.7	36.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Nondurable goods</b> .....		7,957	7,963	7,782	7,772	7,793	5,573	5,575	5,405	5,397	5,415
Food and kindred products .....	20	1,614.5	1,625.4	1,619.9	1,616.9	1,635.2	1,149.8	1,158.8	1,159.7	1,155.4	1,168.8
Meat products .....	201	417.8	420.9	433.0	431.2	-	354.4	357.5	369.9	368.7	-
Meat packing plants .....	2011	136.8	137.0	142.6	142.3	-	114.9	115.2	121.5	121.3	-
Sausages and other prepared meats .....	2013	85.7	86.8	87.3	87.1	-	63.5	64.5	65.8	65.7	-
Poultry slaughtering and processing .....	2015	195.3	197.1	203.1	201.8	-	176.0	177.8	182.6	181.7	-
Dairy products .....	202	154.5	155.6	151.1	152.7	-	94.7	95.7	92.6	93.8	-
Cheese, natural and processed .....	2022	40.6	41.0	39.7	40.0	-	31.2	31.6	30.8	30.9	-
Fluid milk .....	2026	73.8	73.9	72.6	72.9	-	36.8	36.8	36.0	36.2	-
Preserved fruits and vegetables .....	203	219.4	221.6	212.4	213.8	-	179.0	180.5	173.1	174.2	-
Canned specialties .....	2032	22.0	21.8	20.3	20.4	-	16.7	16.6	16.2	16.4	-
Canned fruits and vegetables .....	2033	69.4	71.8	66.8	68.1	-	57.4	59.1	54.8	55.6	-
Frozen fruits and vegetables .....	2037	47.7	47.4	43.9	43.6	-	41.3	41.1	37.5	37.4	-
Grain mill products .....	204	126.7	125.5	126.7	126.0	-	87.7	87.1	88.9	87.7	-
Flour and other grain mill products .....	2041	21.3	21.1	21.7	21.6	-	14.0	13.8	14.2	14.0	-
Prepared feeds, nec .....	2048	44.4	44.3	44.4	43.9	-	27.8	27.8	28.3	27.8	-
Bakery products .....	205	210.6	210.9	207.9	207.6	-	131.4	131.7	129.6	129.9	-
Bread, cake, and related products .....	2051	154.1	154.3	150.0	149.6	-	87.7	88.0	85.3	85.5	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	56.5	56.6	57.9	58.0	-	43.7	43.7	44.3	44.4	-
Sugar and confectionery products .....	206	91.6	92.6	100.4	96.3	-	70.0	71.3	77.8	73.3	-
Raw cane sugar .....	2061	6.8	6.5	7.7	6.5	-	4.8	4.7	5.8	4.6	-
Cane sugar refining .....	2062	5.3	5.3	5.4	5.4	-	4.1	4.0	3.9	3.9	-
Beet sugar .....	2063	7.4	7.3	8.4	7.6	-	5.9	5.8	6.9	6.0	-
Candy and other confectionery products .....	2064	44.2	45.2	51.6	49.5	-	35.5	36.4	41.7	39.2	-
Fats and oils .....	207	31.7	31.1	30.8	30.8	-	23.1	22.4	21.7	21.6	-
Beverages .....	208	184.4	185.6	180.6	181.3	-	77.3	77.4	75.5	75.6	-
Malt beverages .....	2082	39.8	39.1	38.4	38.3	-	24.0	23.5	22.9	22.7	-
Bottled and canned soft drinks .....	2086	102.4	104.0	100.5	100.8	-	33.3	34.1	32.5	33.0	-
Misc. food and kindred products .....	209	177.8	181.6	177.0	177.2	-	132.2	135.2	130.6	130.6	-
Tobacco products .....	21	45.3	45.3	46.5	44.8	44.2	32.8	32.6	34.0	32.5	31.6
Cigarettes .....	211	34.7	34.7	35.0	34.8	-	26.1	25.8	26.1	26.0	-
Textile mill products .....	22	697.5	693.1	657.6	659.2	661.5	599.7	594.8	562.5	564.3	566.8
Broadwoven fabric mills, cotton .....	221	92.4	91.4	88.1	88.2	-	83.3	82.3	78.6	78.8	-
Broadwoven fabric mills, synthetics .....	222	77.1	76.3	71.6	72.7	-	68.0	67.1	62.8	63.8	-
Broadwoven fabric mills, wool .....	223	17.4	17.5	16.9	17.1	-	13.9	14.0	13.8	14.0	-
Narrow fabric mills .....	224	24.2	24.1	24.0	24.0	-	20.3	20.2	20.4	20.3	-
Knitting mills .....	225	208.2	208.0	196.3	196.1	-	181.6	181.1	170.8	170.8	-
Women's hosiery, except socks .....	2251	32.6	32.4	31.6	31.6	-	29.1	28.9	28.3	28.4	-
Hosiery, nec .....	2252	39.5	39.1	37.9	37.4	-	35.4	34.9	33.6	33.2	-
Knit outerwear mills .....	2253	58.7	59.1	52.7	53.0	-	51.5	51.9	46.1	46.4	-
Knit underwear mills .....	2254	29.9	29.8	28.5	28.5	-	25.5	25.4	24.6	24.5	-
Weft knit fabric mills .....	2257	26.7	26.8	25.4	25.6	-	23.1	23.1	21.7	22.0	-
Textile finishing, except wool .....	226	61.8	61.6	60.2	60.2	-	50.1	49.8	48.8	48.9	-
Finishing plants, cotton .....	2261	24.9	24.8	24.6	24.5	-	19.9	19.8	19.8	19.8	-
Finishing plants, synthetics .....	2262	23.9	24.0	23.5	23.6	-	19.2	19.2	18.9	19.0	-
Carpets and rugs .....	227	62.1	61.7	58.2	58.5	-	50.9	50.5	47.4	47.8	-
Yarn and thread mills .....	228	102.5	101.5	92.0	92.2	-	91.8	90.7	81.6	81.8	-
Yarn spinning mills .....	2281	80.7	79.9	71.9	72.0	-	72.5	71.7	64.0	64.1	-
Throwing and winding mills .....	2282	14.5	14.4	13.5	13.6	-	12.8	12.6	11.8	11.9	-
Miscellaneous textile goods .....	229	51.8	51.0	50.3	50.2	-	39.8	39.1	38.3	38.1	-
Apparel and other textile products .....	23	1,054.8	1,050.5	1,009.0	1,008.1	1,013.2	884.8	880.9	843.5	843.8	847.5
Men's and boys' suits and coats .....	231	50.6	50.2	48.8	47.4	-	42.5	42.1	41.1	39.7	-
Men's and boys' furnishings .....	232	282.6	279.5	267.1	266.6	-	243.0	240.0	228.5	228.4	-
Men's and boys' shirts .....	2321	68.1	67.4	61.5	62.3	-	57.6	57.3	52.5	53.4	-
Men's and boys' trousers and slacks .....	2325	83.4	81.8	82.9	82.9	-	72.7	70.8	71.5	71.7	-
Men's and boys' work clothing .....	2326	44.3	44.2	42.3	41.9	-	38.4	38.2	36.7	36.2	-
Women's and misses' outerwear .....	233	330.9	329.4	327.6	326.3	-	276.4	275.3	273.8	273.6	-
Women's and misses' blouses and shirts .....	2331	39.4	39.2	38.2	37.6	-	32.3	32.2	31.3	30.9	-
Women's, juniors', and misses' dresses .....	2335	69.5	69.9	66.6	66.3	-	57.5	57.7	54.4	54.4	-
Women's and misses' suits and coats .....	2337	33.9	35.2	33.8	36.1	-	27.9	29.2	27.8	30.6	-
Women's and misses' outerwear, nec .....	2339	188.1	185.1	189.0	186.3	-	158.7	156.2	160.3	157.7	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
<b>Apparel and other textile products—Continued</b>											
Women's and children's undergarments .....	234	62.7	62.6	60.9	60.3	-	51.9	51.7	49.6	49.0	-
Women's and children's underwear .....	2341	50.7	50.3	49.6	49.0	-	43.8	43.4	42.1	41.5	-
Brassieres, girdles, and allied garments .....	2342	12.0	12.3	11.3	11.3	-	8.1	8.3	7.5	7.5	-
Girls' and children's outerwear .....	236	56.3	57.4	52.4	53.2	-	47.0	48.4	44.4	45.1	-
Girls' and children's dresses and blouses .....	2361	22.7	23.4	21.4	21.6	-	19.5	20.3	19.1	19.2	-
Misc. apparel and accessories .....	238	45.6	45.2	42.5	42.7	-	37.6	36.9	35.0	35.2	-
Misc. fabricated textile products .....	239	207.9	208.0	192.9	194.8	-	171.4	171.6	157.2	158.9	-
Curtains and draperies .....	2391	24.1	24.0	21.2	21.3	-	19.9	19.9	17.3	17.3	-
House furnishings, nec .....	2392	55.5	55.2	52.8	53.4	-	46.0	46.0	43.6	44.2	-
Automotive and apparel trimmings .....	2396	49.9	50.3	44.3	45.3	-	41.3	41.5	35.6	36.7	-
Paper and allied products .....	26	696.2	696.6	688.7	686.8	685.4	521.1	521.4	516.5	515.2	514.9
Paper mills .....	262	178.2	178.0	176.7	176.4	-	134.6	134.6	133.8	133.5	-
Paperboard mills .....	263	51.6	51.8	50.7	50.3	-	39.4	39.5	39.3	39.0	-
Paperboard containers and boxes .....	265	209.6	209.4	206.8	205.9	-	161.3	161.3	159.7	159.1	-
Corrugated and solid fiber boxes .....	2653	118.2	117.9	117.4	116.7	-	88.5	88.4	87.9	87.4	-
Sanitary food containers .....	2656	16.1	16.2	16.3	16.2	-	13.6	13.7	13.8	13.7	-
Folding paperboard boxes .....	2657	50.0	50.0	49.8	49.7	-	40.0	40.0	40.2	40.2	-
Misc. converted paper products .....	267	243.0	243.5	240.6	240.4	-	175.0	175.2	173.1	173.0	-
Paper, coated and laminated, nec .....	2672	45.2	45.4	45.6	45.4	-	21.8	21.9	22.0	21.9	-
Bags: plastics, laminated, and coated .....	2673	34.5	34.4	35.3	35.3	-	25.6	25.5	26.3	26.3	-
Envelopes .....	2677	27.1	27.0	26.2	26.1	-	20.9	20.9	20.3	20.2	-
Printing and publishing .....	27	1,575.9	1,575.1	1,547.7	1,544.6	1,540.4	877.0	876.2	852.9	850.4	844.9
Newspapers .....	271	474.0	475.6	464.9	463.3	-	164.7	166.1	161.7	160.8	-
Periodicals .....	272	128.9	129.1	127.5	127.1	-	47.2	47.4	46.0	45.8	-
Books .....	273	124.2	123.1	122.6	122.3	-	68.9	67.5	66.4	66.4	-
Book publishing .....	2731	87.5	86.7	86.1	85.9	-	38.9	37.8	36.9	36.9	-
Book printing .....	2732	36.7	36.4	36.5	36.4	-	30.0	29.7	29.5	29.5	-
Miscellaneous publishing .....	274	82.6	81.9	82.5	83.0	-	42.5	41.6	41.0	41.1	-
Commercial printing .....	275	555.4	554.7	544.0	542.9	-	403.9	403.9	393.0	392.1	-
Commercial printing, lithographic .....	2752	367.5	367.2	360.8	360.2	-	267.1	267.5	260.2	259.9	-
Commercial printing, nec .....	2759	170.3	169.8	166.2	166.1	-	122.9	122.3	119.2	119.0	-
Manifold business forms .....	276	50.6	50.1	48.9	48.7	-	35.0	34.8	34.1	34.0	-
Blankbooks and bookbinding .....	278	72.2	72.3	68.8	68.6	-	55.6	55.9	52.2	51.7	-
Printing trade services .....	279	63.8	63.9	62.4	62.6	-	47.0	46.7	45.2	45.2	-
Chemicals and allied products .....	28	1,089.0	1,091.8	1,087.6	1,086.1	1,083.5	602.2	603.9	589.6	588.5	587.5
Industrial inorganic chemicals .....	281	142.2	142.0	139.2	139.6	-	72.0	71.7	69.6	70.1	-
Industrial inorganic chemicals, nec .....	2819	95.6	95.7	93.1	93.4	-	50.1	50.3	47.9	48.1	-
Plastics materials and synthetics .....	282	180.6	181.2	178.5	178.4	-	117.4	118.1	112.1	111.7	-
Plastics materials and resins .....	2821	86.4	86.6	86.2	86.1	-	51.0	51.4	51.2	50.9	-
Organic fibers, noncellulosic .....	2824	64.7	64.8	62.0	62.1	-	45.6	45.8	41.0	41.0	-
Drugs .....	283	235.9	236.1	243.9	243.9	-	104.0	104.2	107.4	107.4	-
Pharmaceutical preparations .....	2834	196.4	196.3	201.4	201.1	-	87.5	87.6	90.8	90.7	-
Soap, cleaners, and toilet goods .....	284	158.5	159.8	156.8	155.4	-	97.6	98.7	96.4	95.2	-
Soap and other detergents .....	2841	41.8	42.1	43.9	43.9	-	26.6	26.9	28.4	28.3	-
Polishing, sanitation, and finishing preparations .....	2842,3	45.5	45.6	46.0	45.8	-	24.5	24.9	25.0	24.6	-
Toilet preparations .....	2844	71.2	72.1	66.9	65.7	-	46.5	46.9	43.0	42.3	-
Paints and allied products .....	285	61.3	61.9	59.8	59.5	-	30.8	31.3	30.0	30.0	-
Industrial organic chemicals .....	286	153.8	154.3	153.7	153.6	-	86.1	85.7	81.5	81.4	-
Cyclic crudes and intermediates .....	2865	27.4	27.5	28.5	28.5	-	16.5	16.5	16.4	16.4	-
Industrial organic chemicals, nec .....	2869	122.1	122.5	121.0	120.9	-	66.6	66.2	62.2	62.1	-
Agricultural chemicals .....	287	57.2	57.0	57.0	57.6	-	35.6	35.3	34.6	35.0	-
Miscellaneous chemical products .....	289	99.5	99.5	98.7	98.1	-	58.7	58.9	58.0	57.7	-
Petroleum and coal products .....	29	155.3	157.5	154.8	157.5	158.5	101.6	103.7	99.0	101.6	102.7
Petroleum refining .....	291	116.5	116.7	118.7	119.5	-	74.6	74.8	74.9	75.5	-
Asphalt paving and roofing materials .....	295	26.2	28.0	23.3	25.3	-	19.9	21.6	16.9	18.9	-
Rubber and misc. plastics products .....	30	893.3	892.1	849.9	848.8	851.5	692.3	691.2	649.6	648.8	653.5
Tires and inner tubes .....	301	86.4	84.1	86.2	83.4	-	63.6	61.9	62.7	60.2	-
Rubber and plastics footwear .....	302	11.2	11.2	11.2	11.2	-	9.1	9.1	9.0	9.0	-
Hose, belting, gaskets, and packing .....	305	61.0	60.3	57.5	57.5	-	44.2	43.4	41.4	41.5	-
Rubber and plastics hose and belting .....	3052	25.1	24.2	23.1	23.0	-	18.8	17.9	17.3	17.3	-
Fabricated rubber products, nec .....	306	104.8	105.2	96.4	96.0	-	78.6	79.1	71.6	71.4	-
Miscellaneous plastics products, nec .....	308	629.9	631.3	598.6	600.7	-	496.8	497.7	464.9	466.7	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Leather and leather products .....	31	135.5	135.3	120.3	119.0	119.6	111.7	111.6	97.6	96.8	97.0
Leather tanning and finishing .....	311	15.2	15.3	13.5	13.7	-	12.6	12.7	11.1	11.3	-
Footwear, except rubber .....	314	75.5	75.4	67.3	66.7	-	64.2	64.2	56.6	56.3	-
Men's footwear, except athletic .....	3143	33.7	33.3	29.5	29.1	-	27.5	27.1	23.8	23.6	-
Women's footwear, except athletic .....	3144	27.2	27.4	24.9	24.6	-	24.0	24.2	21.4	21.2	-
Luggage .....	316	10.9	10.7	9.6	9.0	-	7.8	7.6	6.3	5.8	-
Handbags and personal leather goods .....	317	14.9	14.9	12.7	12.8	-	11.6	11.5	9.4	9.7	-
<b>Transportation and public utilities .....</b>		<b>5,763</b>	<b>5,821</b>	<b>5,764</b>	<b>5,781</b>	<b>5,824</b>	<b>4,781</b>	<b>4,830</b>	<b>4,771</b>	<b>4,788</b>	<b>4,829</b>
Transportation .....		3,498	3,549	3,503	3,520	3,560	-	-	-	-	-
Railroad transportation .....	40	281.0	284.5	267.9	269.1	-	-	-	-	-	-
Class I railroads <sup>2</sup> .....	4011	241.7	244.8	229.8	230.5	-	-	-	-	-	-
Local and interurban passenger transit .....	41	343.4	353.6	370.6	371.7	-	311.9	322.8	340.4	341.3	-
Local and suburban transportation .....	411	136.5	137.5	142.1	143.3	-	122.6	123.8	129.0	130.1	-
Taxicabs .....	412	32.9	32.6	32.0	31.8	-	-	-	-	-	-
Intercity and rural bus transportation .....	413	24.6	24.9	23.7	23.4	-	20.1	20.8	21.0	20.8	-
School buses .....	415	121.3	128.8	143.0	142.2	-	-	-	-	-	-
Trucking and warehousing .....	42	1,605.0	1,625.4	1,588.9	1,595.4	-	1,396.6	1,416.9	1,375.4	1,381.2	-
Trucking and courier services, except air .....	421	1,486.9	1,508.3	1,470.7	1,478.3	-	1,298.5	1,319.9	1,278.0	1,284.6	-
Public warehousing and storage .....	422	114.1	113.0	114.2	113.1	-	94.6	93.5	93.8	93.1	-
Water transportation .....	44	171.6	174.9	161.3	168.0	-	-	-	-	-	-
Water transportation of freight, nec .....	444	14.8	15.6	15.3	15.0	-	-	-	-	-	-
Water transportation services .....	449	109.9	110.2	98.7	103.3	-	97.5	97.4	86.2	90.9	-
Transportation by air .....	45	732.9	744.0	745.3	746.3	-	-	-	-	-	-
Air transportation, scheduled .....	451	607.5	617.3	618.4	618.4	-	-	-	-	-	-
Airports, flying fields, and services .....	458	99.1	99.5	99.3	100.3	-	-	-	-	-	-
Pipelines, except natural gas .....	46	18.1	18.2	18.3	18.4	-	13.1	13.3	13.4	13.5	-
Transportation services .....	47	346.0	348.2	350.6	350.9	-	-	-	-	-	-
Passenger transportation arrangement .....	472	190.0	191.5	189.2	189.4	-	150.9	153.1	147.8	147.1	-
Travel agencies .....	4724	151.0	152.1	151.3	151.2	-	118.7	120.4	117.6	116.7	-
Freight transportation arrangement .....	473	129.4	129.5	134.3	134.0	-	104.7	104.7	105.6	106.4	-
Communications and public utilities .....		2,265	2,272	2,261	2,261	2,264	-	-	-	-	-
Communications .....	48	1,310.3	1,313.3	1,297.2	1,296.9	-	978.2	980.4	972.1	971.3	-
Telephone communications .....	481	909.9	912.6	896.9	897.6	-	655.2	656.9	647.3	648.1	-
Radio and television broadcasting .....	483	235.4	235.6	233.3	232.8	-	194.5	194.6	192.8	191.9	-
Radio broadcasting stations .....	4832	120.0	119.9	117.8	117.7	-	-	-	-	-	-
Television broadcasting stations .....	4833	115.4	115.7	115.5	115.1	-	-	-	-	-	-
Cable and other pay television services .....	484	127.7	128.0	131.9	131.5	-	105.6	105.9	110.8	110.3	-
Electric, gas, and sanitary services .....	49	954.4	958.9	963.3	964.1	-	755.7	759.7	760.5	761.5	-
Electric services .....	491	456.0	456.8	454.0	453.8	-	351.9	352.9	350.2	350.5	-
Gas production and distribution .....	492	162.9	163.8	164.0	163.7	-	127.2	128.2	127.7	127.6	-
Combination utility services .....	493	191.5	192.2	191.5	191.8	-	154.9	155.1	153.0	152.7	-
Sanitary services .....	495	114.2	115.9	123.3	124.1	-	98.6	99.9	105.8	106.7	-
<b>Wholesale trade .....</b>		<b>6,187</b>	<b>6,211</b>	<b>6,063</b>	<b>6,062</b>	<b>6,076</b>	<b>4,969</b>	<b>4,988</b>	<b>4,855</b>	<b>4,854</b>	<b>4,871</b>
Durable goods .....	50	3,629	3,636	3,536	3,525	3,527	2,892	2,895	2,802	2,794	-
Motor vehicles, parts, and supplies .....	501	459.5	460.4	450.7	451.1	-	371.1	371.5	361.8	362.4	-
Automobiles and other motor vehicles .....	5012	120.9	119.9	120.0	119.3	-	-	-	-	-	-
Motor vehicle supplies and new parts .....	5013	268.5	269.9	263.0	263.9	-	-	-	-	-	-
Furniture and home furnishings .....	502	152.1	151.5	143.6	142.6	-	122.5	121.7	114.4	113.4	-
Furniture .....	5021	70.9	70.6	66.9	66.0	-	-	-	-	-	-
Home furnishings .....	5023	81.2	80.9	76.7	76.6	-	-	-	-	-	-
Lumber and other construction materials .....	503	230.5	233.8	220.0	221.1	-	187.9	190.7	177.4	178.6	-
Lumber, plywood, and millwork .....	5031	120.5	121.6	114.0	114.3	-	-	-	-	-	-
Construction materials, nec .....	5039	42.7	43.1	41.4	41.7	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Wholesale trade—Continued</b>											
<b>Durable goods—Continued</b>											
Professional and commercial equipment .....	504	775.8	773.8	762.0	757.5	-	625.6	623.1	615.6	612.1	-
Computers, peripherals and software .....	5045	305.1	303.3	290.5	287.2	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	142.0	141.9	135.7	134.2	-	112.8	112.8	106.7	105.4	-
Electrical goods .....	506	495.7	497.0	494.4	491.5	-	377.3	377.0	370.9	368.9	-
Electrical apparatus and equipment .....	5063	203.4	204.5	203.0	202.4	-	-	-	-	-	-
Electrical appliances, television and radio sets .....	5064	62.3	62.1	61.4	60.2	-	-	-	-	-	-
Electronic parts and equipment .....	5065	230.0	230.4	230.0	228.9	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	281.5	281.6	269.1	266.7	-	226.7	227.0	214.9	213.0	-
Hardware .....	5072	97.0	96.9	91.8	90.9	-	-	-	-	-	-
Plumbing and hydronic heating supplies .....	5074	117.9	117.9	112.8	111.6	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	799.1	802.9	780.8	780.4	-	635.5	638.6	618.7	618.3	-
Construction and mining machinery .....	5082	85.6	85.7	80.4	79.7	-	-	-	-	-	-
Farm and garden machinery .....	5083	119.0	120.5	115.1	117.0	-	-	-	-	-	-
Industrial machinery and equipment .....	5084	327.9	328.8	322.0	320.1	-	-	-	-	-	-
Industrial supplies .....	5085	144.6	144.7	143.7	144.0	-	-	-	-	-	-
Misc. wholesale trade durable goods .....	509	292.6	292.8	279.3	279.6	-	232.9	232.8	221.1	221.5	-
Scrap and waste materials .....	5093	107.9	108.3	105.0	105.2	-	-	-	-	-	-
<b>Nondurable goods .....</b>	<b>51</b>	<b>2,558</b>	<b>2,575</b>	<b>2,527</b>	<b>2,537</b>	<b>2,549</b>	<b>2,077</b>	<b>2,093</b>	<b>2,053</b>	<b>2,060</b>	<b>-</b>
Paper and paper products .....	511	240.8	240.9	237.0	237.7	-	193.1	193.7	191.2	192.2	-
Drugs, proprietaries, and sundries .....	512	186.7	187.6	188.5	187.6	-	156.3	157.2	158.1	157.6	-
Apparel, piece goods, and notions .....	513	203.0	202.7	200.0	199.0	-	157.8	157.8	158.3	156.8	-
Groceries and related products .....	514	841.1	850.2	825.6	826.2	-	704.0	712.2	688.6	687.3	-
Groceries, general line .....	5141	268.6	270.7	271.7	271.2	-	-	-	-	-	-
Meats and meat products .....	5147	61.2	60.9	60.4	60.1	-	-	-	-	-	-
Fresh fruits and vegetables .....	5148	100.0	105.5	90.8	91.0	-	-	-	-	-	-
Chemicals and allied products .....	516	136.7	136.7	135.9	136.4	-	97.9	98.3	98.4	99.0	-
Petroleum and petroleum products .....	517	196.8	197.6	194.0	193.9	-	156.0	156.7	153.8	153.2	-
Petroleum bulk stations and terminals .....	5171	81.9	82.6	82.2	82.0	-	-	-	-	-	-
Petroleum products, nec .....	5172	114.9	115.0	111.8	111.9	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	147.9	149.9	150.5	150.6	-	121.2	123.0	123.2	123.2	-
Beer and ale .....	5181	93.6	95.2	94.8	95.5	-	-	-	-	-	-
Wine and distilled beverages .....	5182	54.3	54.7	55.7	55.1	-	-	-	-	-	-
Misc. wholesale trade nondurable goods .....	519	484.9	489.7	479.1	488.7	-	392.4	397.0	386.7	396.1	-
Farm supplies .....	5191	162.1	163.0	157.4	164.9	-	-	-	-	-	-
<b>Retail trade .....</b>	<b>52</b>	<b>19,457</b>	<b>19,687</b>	<b>18,990</b>	<b>19,093</b>	<b>19,293</b>	<b>17,209</b>	<b>17,430</b>	<b>16,738</b>	<b>16,841</b>	<b>17,031</b>
Building materials and garden supplies .....	52	785.9	803.9	726.5	750.4	-	652.3	668.8	596.1	618.9	-
Lumber and other building materials .....	521	435.5	443.9	397.9	405.5	-	366.7	374.2	331.6	338.6	-
Hardware stores .....	525	160.6	163.5	157.2	160.1	-	132.4	134.9	128.4	131.2	-
General merchandise stores .....	53	2,444.9	2,453.8	2,295.7	2,283.9	2,289.0	2,280.5	2,295.0	2,152.1	2,142.0	-
Department stores .....	531	2,066.5	2,073.1	1,935.3	1,926.1	-	1,943.0	1,954.6	1,830.1	1,822.5	-
Variety stores .....	533	166.7	167.0	158.0	157.8	-	151.6	151.7	142.6	142.6	-
Miscellaneous general merchandise stores .....	539	211.7	213.7	202.4	200.0	-	185.9	188.7	179.4	176.9	-
Food stores .....	54	3,186.4	3,207.2	3,200.0	3,191.8	3,203.1	2,926.7	2,945.1	2,937.2	2,927.7	-
Grocery stores .....	541	2,849.1	2,872.2	2,862.9	2,855.5	-	2,629.5	2,650.8	2,643.9	2,635.9	-
Meat and fish markets .....	542	51.5	49.5	50.0	49.3	-	-	-	-	-	-
Dairy products stores .....	545	23.4	23.8	23.1	23.9	-	-	-	-	-	-
Retail bakeries .....	546	163.9	163.1	165.2	164.4	-	146.3	145.2	146.7	146.0	-
Automotive dealers and service stations .....	55	2,072.7	2,089.1	2,011.1	2,019.5	2,034.4	1,727.5	1,742.8	1,667.6	1,675.3	-
New and used car dealers .....	551	930.2	931.0	892.2	892.4	-	771.5	771.7	737.3	738.6	-
Auto and home supply stores .....	553	338.0	340.5	333.5	337.0	-	270.8	272.8	264.8	267.9	-
Gasoline service stations .....	554	646.2	653.2	632.2	632.4	-	558.8	566.0	544.3	543.8	-
Automotive dealers, nec .....	559	9.5	9.7	10.3	10.3	-	7.8	8.1	8.3	8.3	-
Apparel and accessory stores .....	56	1,173.4	1,166.8	1,096.8	1,093.6	-	980.5	974.8	902.4	899.1	-
Men's and boys' clothing stores .....	561	99.2	98.6	89.1	88.2	-	79.0	78.7	71.3	70.4	-
Women's clothing stores .....	562	407.5	406.9	376.6	378.6	-	338.4	337.8	308.9	311.0	-
Family clothing stores .....	565	282.5	282.5	273.4	272.8	-	242.3	243.0	233.4	233.6	-
Shoe stores .....	566	224.5	219.7	207.4	204.2	-	186.0	181.4	163.7	159.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Retail trade—Continued</b>											
Furniture and home furnishings stores .....	57	820.3	822.7	797.7	795.1	-	669.9	670.0	646.8	645.6	-
Furniture and home furnishings stores .....	571	460.4	462.9	449.7	450.2	-	374.1	375.7	361.5	362.9	-
Furniture stores .....	5712	282.1	282.3	276.0	275.8	-	-	-	-	-	-
Household appliance stores .....	572	82.4	81.2	73.4	72.2	-	67.6	66.7	59.7	58.7	-
Radio, television, and computer stores .....	573	277.5	278.6	274.6	272.7	-	228.2	227.6	225.6	224.0	-
Radio, television, and electronic stores .....	5731	113.6	113.7	116.3	115.2	-	94.9	94.9	97.4	96.7	-
Record and prerecorded tape stores .....	5735	62.9	64.2	59.4	58.9	-	53.1	53.0	49.4	48.8	-
Eating and drinking places .....	58	6,506.9	6,648.5	6,416.3	6,528.3	6,659.8	5,905.2	6,038.7	5,799.0	5,910.5	-
Miscellaneous retail establishments .....	59	2,466.2	2,495.0	2,445.9	2,430.6	-	2,066.5	2,094.9	2,036.8	2,021.9	-
Drug stores and proprietary stores .....	591	620.6	623.2	628.9	626.3	-	521.9	525.1	528.4	525.4	-
Liquor stores .....	592	118.7	119.0	118.7	119.0	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	841.1	847.8	836.2	829.3	-	698.6	704.9	690.4	683.1	-
Sporting goods and bicycle shops .....	5941	152.7	154.5	151.3	150.0	-	-	-	-	-	-
Book stores .....	5942	90.7	91.5	91.6	90.4	-	-	-	-	-	-
Stationery stores .....	5943	79.1	78.2	77.0	75.6	-	-	-	-	-	-
Jewelry stores .....	5944	144.6	145.4	143.7	141.8	-	-	-	-	-	-
Gift, novelty, and souvenir shops .....	5947	179.4	185.8	175.2	177.3	-	-	-	-	-	-
Sewing, needlework, and piece goods .....	5949	64.8	64.1	67.6	67.0	-	-	-	-	-	-
Nonstore retailers .....	596	289.1	289.3	262.1	255.3	-	254.8	256.0	229.7	223.6	-
Catalog and mail-order houses .....	5961	154.3	153.2	134.8	130.2	-	-	-	-	-	-
Merchandising machine operators .....	5962	82.2	83.1	77.8	77.0	-	-	-	-	-	-
Fuel dealers .....	598	107.6	106.5	109.0	105.7	-	89.5	88.3	90.5	87.5	-
Retail stores, nec .....	599	421.3	440.7	422.2	426.5	-	349.0	366.5	343.6	348.0	-
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		6,703	6,737	6,685	6,689	6,712	4,865	4,892	4,818	4,830	4,854
<b>Finance</b> .....		3,287	3,291	3,284	3,281	3,283	-	-	-	-	-
Depository institutions .....	60	2,267.0	2,270.9	2,260.1	2,256.6	-	1,644.5	1,647.7	1,632.9	1,632.4	-
Commercial banks .....	602	1,564.8	1,569.0	1,563.3	1,561.1	-	1,113.6	1,116.7	1,110.5	1,110.5	-
State commercial banks .....	6022	667.2	670.0	664.8	664.2	-	-	-	-	-	-
Savings institutions .....	603	455.0	452.5	438.7	436.8	-	-	-	-	-	-
Federal savings institutions .....	6035	238.3	237.3	230.8	228.6	-	-	-	-	-	-
Savings institutions, except federal .....	6036	216.7	215.2	207.9	208.2	-	-	-	-	-	-
Credit unions .....	606	133.3	133.9	136.7	137.5	-	106.8	107.2	109.1	109.8	-
Nondepository institutions .....	61	373.9	372.4	371.1	371.8	-	270.2	269.6	270.1	271.2	-
Personal credit institutions .....	614	126.1	125.6	127.0	126.9	-	93.7	93.4	95.8	95.7	-
Business credit institutions .....	615	79.4	79.4	81.6	80.7	-	-	-	-	-	-
Mortgage bankers and brokers .....	616	157.3	156.3	152.1	153.7	-	-	-	-	-	-
Security and commodity brokers .....	62	426.2	427.2	421.5	421.6	-	-	-	-	-	-
Security brokers and dealers .....	621	325.0	325.0	319.7	319.6	-	-	-	-	-	-
Commodity contracts brokers, dealers, and exchanges .....	622,3	25.1	25.2	22.9	22.7	-	-	-	-	-	-
Security and commodity services .....	628	76.1	77.0	78.9	79.3	-	47.7	47.8	48.9	49.6	-
Holding and other investment offices .....	67	219.8	220.9	230.9	230.9	-	-	-	-	-	-
<b>Insurance</b> .....	63,64	2,108	2,114	2,138	2,131	2,133	-	-	-	-	-
Insurance carriers .....	63	1,444.4	1,448.9	1,470.5	1,464.4	-	969.5	972.7	988.7	988.2	-
Life insurance .....	631	533.6	535.6	543.6	537.5	-	326.3	327.2	329.2	327.3	-
Medical service and health insurance .....	632	239.0	240.4	253.1	253.3	-	193.9	195.2	206.1	206.9	-
Fire, marine, and casualty insurance .....	633	555.4	555.9	563.8	563.1	-	359.3	359.6	367.9	367.8	-
Title insurance .....	636	63.5	64.0	54.9	55.3	-	-	-	-	-	-
Insurance agents, brokers, and service .....	64	663.1	664.8	667.5	666.1	-	-	-	-	-	-
<b>Real estate</b> .....	65	1,308	1,332	1,263	1,277	1,296	-	-	-	-	-
Real estate operators and lessors .....	651	556.1	563.6	546.1	552.9	-	-	-	-	-	-
Real estate agents and managers .....	653	572.9	579.7	552.6	551.5	-	-	-	-	-	-
Subdividers and developers .....	655	147.8	157.5	135.4	143.0	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Services</b> .....		28,113	28,242	28,490	28,626	28,698	24,551	24,665	24,816	24,947	24,997
Hotels and other lodging places .....	70	1,616.3	1,649.4	1,555.2	1,573.1	-	-	-	-	-	-
Hotels and motels .....	701	1,572.3	1,601.0	1,513.7	1,529.4	-	1,393.1	1,418.0	1,332.5	1,347.6	-
Personal services .....	72	1,163.2	1,094.9	1,169.4	1,166.2	-	-	-	-	-	-
Laundry, cleaning, and garment services .....	721	429.2	434.3	428.5	429.0	-	381.7	386.7	378.9	379.0	-
Photographic studios, portrait .....	722	61.1	63.2	63.2	63.2	-	-	-	-	-	-
Beauty shops .....	723	371.4	373.1	379.4	378.6	-	331.4	333.3	340.9	340.5	-
Funeral service and crematories .....	726	82.6	83.3	84.6	84.7	-	-	-	-	-	-
Miscellaneous personal services .....	729	194.4	116.4	189.5	186.6	-	174.8	101.8	169.9	167.9	-
Business services .....	73	5,158.1	5,225.9	5,180.1	5,205.5	5,261.6	4,534.0	4,600.0	4,523.4	4,549.2	-
Advertising .....	731	237.2	237.7	233.6	232.2	-	171.6	170.9	165.7	163.6	-
Advertising agencies .....	7311	168.6	168.8	164.7	163.6	-	-	-	-	-	-
Credit reporting and collection .....	732	106.8	107.1	110.4	112.5	-	-	-	-	-	-
Mailing, reproduction, and stenographic services .....	733	236.1	239.9	249.4	252.2	-	-	-	-	-	-
Services to buildings .....	734	813.1	818.3	787.1	786.5	-	737.5	742.3	709.8	709.4	-
Personnel supply services .....	736	1,516.3	1,561.8	1,447.6	1,460.4	-	-	-	-	-	-
Employment agencies .....	7361	258.5	261.5	250.8	250.6	-	-	-	-	-	-
Help supply services .....	7363	1,257.8	1,300.3	1,196.8	1,209.8	-	1,215.0	1,259.8	1,149.8	1,163.1	-
Computer and data processing services .....	737	774.5	776.0	817.3	821.9	-	602.2	604.0	637.7	642.0	-
Computer programming services .....	7371	151.1	152.1	162.1	163.0	-	120.1	120.8	129.0	129.5	-
Prepackaged software .....	7372	109.7	111.8	119.9	120.5	-	-	-	-	-	-
Data processing and preparation .....	7374	201.2	197.8	207.3	208.4	-	-	-	-	-	-
Miscellaneous business services .....	738	1,263.8	1,270.5	1,331.7	1,333.2	-	1,120.1	1,124.6	1,175.5	1,176.4	-
Detective and armored car services .....	7381	452.9	453.8	481.9	481.8	-	425.3	425.9	452.4	451.8	-
Photofinishing laboratories .....	7384	77.9	79.9	75.5	75.1	-	-	-	-	-	-
Auto repair, services, and parking .....	75	922.5	930.1	914.4	910.1	-	763.2	769.4	751.5	748.8	-
Automotive rentals, without drivers .....	751	176.3	179.1	181.1	178.7	-	-	-	-	-	-
Automotive repair shops .....	753	528.7	533.6	522.4	521.7	-	433.4	437.4	425.6	424.9	-
Miscellaneous repair services .....	76	388.8	392.9	380.9	379.2	-	318.8	321.6	309.7	308.4	-
Electrical repair shops .....	762	113.3	114.6	119.4	119.7	-	-	-	-	-	-
Motion pictures .....	78	403.5	409.2	400.1	398.0	-	340.7	345.8	330.5	328.5	-
Motion picture production and services .....	781	143.2	145.9	152.7	149.6	-	116.5	118.3	120.5	118.1	-
Motion picture theaters .....	783	111.3	113.0	107.9	110.3	-	-	-	-	-	-
Amusement and recreation services .....	79	1,076.6	1,119.7	1,053.0	1,081.2	-	944.9	986.1	918.0	944.7	-
Misc. amusement and recreation services .....	799	708.9	754.6	679.7	700.1	-	621.4	666.4	590.8	609.9	-
Physical fitness facilities .....	7991	127.9	127.2	129.9	129.3	-	114.7	114.3	115.2	115.0	-
Membership sports and recreation clubs .....	7997	252.7	280.0	233.8	258.1	-	221.5	248.1	202.2	225.2	-
Health services .....	80	7,737.7	7,782.3	8,105.4	8,133.1	8,171.9	6,877.3	6,919.1	7,206.8	7,230.2	-
Offices and clinics of medical doctors .....	801	1,331.0	1,341.7	1,408.9	1,413.6	-	1,098.8	1,108.3	1,162.2	1,165.4	-
Offices and clinics of dentists .....	802	510.3	513.1	520.4	519.9	-	447.0	450.7	457.1	456.3	-
Offices and clinics of other health practitioners .....	804	272.7	276.1	291.1	294.6	-	226.6	229.6	240.6	243.5	-
Nursing and personal care facilities .....	805	1,400.3	1,408.6	1,475.7	1,481.9	-	1,265.4	1,273.2	1,331.8	1,336.7	-
Skilled nursing care facilities .....	8051	966.4	970.7	1,007.5	1,012.6	-	-	-	-	-	-
Intermediate care facilities .....	8052	197.7	199.0	213.7	214.0	-	178.4	179.3	192.2	192.5	-
Nursing and personal care, nec .....	8059	236.2	238.9	254.5	255.3	-	-	-	-	-	-
Hospitals .....	806	3,513.4	3,519.8	3,612.4	3,620.3	-	3,214.0	3,219.8	3,312.0	3,319.5	-
General medical and surgical hospitals .....	8062	3,236.9	3,241.7	3,322.1	3,329.3	-	-	-	-	-	-
Psychiatric hospitals .....	8063	104.1	104.6	105.8	105.6	-	-	-	-	-	-
Specialty hospitals, excluding psychiatric .....	8069	172.4	173.5	184.5	185.4	-	-	-	-	-	-
Medical and dental laboratories .....	807	166.7	169.5	180.9	181.1	-	-	-	-	-	-
Home health care services .....	808	276.9	284.1	320.2	323.6	-	256.0	262.9	296.1	299.5	-
Legal services .....	81	905.6	909.7	921.9	920.1	-	748.0	751.9	753.9	751.6	-
Educational services .....	82	1,737.5	1,677.5	1,768.0	1,767.5	-	-	-	-	-	-
Elementary and secondary schools .....	821	467.7	468.4	473.0	471.0	-	-	-	-	-	-
Colleges and universities .....	822	1,063.0	1,003.1	1,083.9	1,083.1	-	-	-	-	-	-
Vocational schools .....	824	91.9	91.1	89.1	88.3	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Services—Continued</b>											
Social services .....	83	1,797.1	1,811.5	1,922.2	1,932.0	-	-	-	-	-	-
Individual and family services .....	832	458.5	461.4	483.7	485.2	-	-	-	-	-	-
Job training and related services .....	833	246.0	247.3	242.9	242.9	-	-	-	-	-	-
Child day care services .....	835	463.5	467.5	506.9	512.9	-	410.4	413.6	447.6	453.1	-
Residential care .....	836	454.5	460.3	507.3	510.1	-	-	-	-	-	-
Museums and botanical and zoological gardens .....	84	65.6	68.9	63.6	66.4	-	-	-	-	-	-
Membership organizations .....	86	1,922.1	1,934.8	1,934.3	1,935.2	-	-	-	-	-	-
Business associations .....	861	105.7	106.5	105.7	104.3	-	-	-	-	-	-
Labor organizations .....	863	136.6	138.8	137.3	137.3	-	-	-	-	-	-
Civic and social associations .....	864	408.8	417.0	417.1	418.5	-	-	-	-	-	-
Engineering and management services .....	87	2,518.5	2,498.8	2,496.5	2,479.3	-	1,921.8	1,901.4	1,902.2	1,888.6	-
Engineering and architectural services .....	871	790.3	793.2	764.4	761.3	-	648.4	651.0	626.1	624.1	-
Engineering services .....	8711	610.0	613.2	594.0	591.4	-	504.4	507.3	491.1	489.6	-
Architectural services .....	8712	129.1	128.7	123.5	123.2	-	101.8	101.4	97.3	96.9	-
Accounting, auditing, and bookkeeping .....	872	560.9	531.2	553.2	545.4	-	425.3	397.0	418.4	411.0	-
Research and testing services .....	873	548.3	552.6	550.5	548.2	-	396.5	400.2	398.6	397.4	-
Commercial physical research .....	8731	230.9	231.2	232.8	232.4	-	-	-	-	-	-
Noncommercial research organizations .....	8733	144.7	144.7	147.1	147.0	-	-	-	-	-	-
Management and public relations .....	874	619.0	621.8	628.4	624.4	-	451.6	453.2	459.1	456.1	-
Services, nec .....	89	38.6	38.3	37.4	37.4	-	31.1	30.9	29.4	29.4	-
<b>Government</b> .....		18,636	18,895	18,774	18,761	18,800	-	-	-	-	-
Federal Government <sup>4</sup> .....		3,149	3,354	2,939	2,947	2,956	-	-	-	-	-
Executive, by agency <sup>4</sup> .....		3,088.6	3,293.3	2,877.1	-	-	-	-	-	-	-
Department of Defense .....		957.5	958.1	912.2	-	-	-	-	-	-	-
Postal Service <sup>5</sup> .....		819.4	819.7	808.9	-	-	-	-	-	-	-
Other executive agencies .....		1,311.7	1,515.5	1,156.0	-	-	-	-	-	-	-
Legislative .....		37.5	38.1	37.5	-	-	-	-	-	-	-
Judicial .....		22.5	22.6	24.4	-	-	-	-	-	-	-
Federal Government, by industry:											
Manufacturing activities .....		117.6	117.2	111.5	111.3	-	-	-	-	-	-
Ship building and repairing .....	3731	69.2	68.8	64.6	63.9	-	-	-	-	-	-
Transportation and public utilities, except Postal Service .....		36.5	35.5	35.8	36.2	-	-	-	-	-	-
Services .....		397.7	401.5	395.7	397.4	-	-	-	-	-	-
Hospitals .....	806	233.1	233.1	237.2	238.0	-	-	-	-	-	-
State government .....		4,388	4,346	4,472	4,461	4,416	-	-	-	-	-
Hospitals .....	806	428.2	428.8	430.6	428.9	-	-	-	-	-	-
Education .....	82	1,837.7	1,777.7	1,874.4	1,869.9	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions .....		1,631.2	1,642.4	1,670.4	1,666.0	-	-	-	-	-	-
Local government .....		11,099	11,195	11,363	11,353	11,428	-	-	-	-	-
Transportation and public utilities .....		455.8	457.2	455.9	456.6	-	-	-	-	-	-
Hospitals .....	806	645.9	645.2	672.5	673.5	-	-	-	-	-	-
Education .....	82	6,337.3	6,366.4	6,544.1	6,508.7	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions .....		3,330.2	3,388.1	3,381.2	3,401.2	-	-	-	-	-	-

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

<sup>3</sup> Excludes nonoffice commissioned real estate sales agents.

<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 1990 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 nonfarm payrolls by major industry and manufacturing group**

(In thousands)

Industry	Feb. 1990	Mar. 1990	Jan. 1991	Feb. 1991	Mar. 1991
<b>Total</b> .....	51,540	51,841	52,014	52,067	52,187
<b>Total private</b> .....	41,773	41,967	42,114	41,970	42,038
<b>Goods-producing</b> .....	6,946	6,941	6,739	6,696	6,662
<b>Mining</b> .....	94	94	96	97	97
<b>Construction</b> .....	540	542	535	528	528
<b>Manufacturing</b> .....	6,312	6,305	6,108	6,071	6,037
<b>Durable goods</b> .....	2,996	2,993	2,864	2,836	2,817
Lumber and wood products .....	117	118	112	108	108
Furniture and fixtures .....	161	161	152	148	148
Stone, clay, and glass products .....	109	109	105	104	102
Primary metal industries .....	102	103	100	99	99
Fabricated metal products .....	317	318	307	300	299
Industrial machinery and equipment .....	463	460	444	441	439
Electronic and other electrical equipment .....	725	723	688	683	675
Transportation equipment .....	409	408	384	377	374
Instruments and related products .....	419	419	406	405	404
Miscellaneous manufacturing .....	175	176	168	169	169
<b>Nondurable goods</b> .....	3,316	3,312	3,244	3,235	3,220
Food and kindred products .....	518	515	520	519	515
Tobacco products .....	17	16	18	17	15
Textile mill products .....	340	339	325	322	321
Apparel and other textile products .....	840	835	796	800	797
Paper and allied products .....	171	171	170	169	169
Printing and publishing .....	691	692	690	686	684
Chemicals and allied products .....	325	327	327	329	329
Petroleum and coal products .....	25	25	26	26	26
Rubber and misc. plastics products .....	310	312	301	297	295
Leather and leather products .....	80	79	72	71	70
<b>Service-producing</b> .....	44,594	44,900	45,275	45,371	45,525
<b>Transportation and public utilities</b> .....	1,681	1,686	1,739	1,724	1,725
<b>Wholesale trade</b> .....	1,889	1,893	1,870	1,862	1,861
<b>Retail trade</b> .....	10,191	10,220	10,281	10,064	10,061
<b>Finance, insurance, and real estate</b> .....	4,219	4,230	4,250	4,248	4,255
<b>Services</b> .....	16,847	16,997	17,235	17,376	17,474
<b>Government</b> .....	9,767	9,874	9,900	10,097	10,149
Federal .....	1,180	1,225	1,213	1,215	1,215
State .....	2,165	2,182	2,160	2,230	2,241
Local .....	6,422	6,467	6,527	6,652	6,693

NOTE: Data in this table have been revised to reflect March 1990 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 nonfarm payrolls by major industry and manufacturing group, seasonally adjusted**

(In thousands)

Industry	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>P</sup>	May <sup>P</sup>
<b>Total</b> .....	110,304	110,435	110,269	110,160	110,113	109,982	109,761	109,621	109,418	109,160	108,902	108,722	108,781
<b>Total private</b> .....	91,764	91,858	91,839	91,839	91,785	91,638	91,406	91,268	91,053	90,771	90,495	90,302	90,351
<b>Goods-producing</b> .....	25,141	25,093	25,027	24,937	24,842	24,705	24,481	24,375	24,181	24,039	23,877	23,793	23,812
<b>Mining</b> .....	713	718	717	713	711	710	712	715	713	715	714	711	705
Oil and gas extraction .....	394	397	397	395	396	397	398	399	399	401	402	400	397
<b>Construction</b> .....	5,203	5,182	5,145	5,111	5,088	5,022	4,962	4,911	4,797	4,792	4,720	4,683	4,696
General building contractors .....	1,325	1,322	1,309	1,297	1,294	1,272	1,251	1,237	1,221	1,210	1,196	1,184	1,175
<b>Manufacturing</b> .....	19,225	19,193	19,165	19,113	19,043	18,973	18,807	18,749	18,671	18,532	18,443	18,399	18,411
<b>Durable goods</b> .....	11,212	11,189	11,160	11,111	11,049	11,000	10,867	10,828	10,770	10,652	10,584	10,562	10,566
Lumber and wood products .....	750	746	744	740	733	730	719	714	706	696	692	694	697
Furniture and fixtures .....	515	514	511	511	508	505	496	493	490	482	479	481	483
Stone, clay, and glass products .....	562	560	556	555	552	549	543	539	532	527	520	521	520
Primary metal industries .....	759	759	762	757	754	753	747	742	740	726	724	723	724
Blast furnaces and basic steel products .....	276	276	276	276	275	276	274	273	271	264	262	263	264
Fabricated metal products .....	1,433	1,430	1,430	1,430	1,421	1,415	1,402	1,395	1,389	1,365	1,356	1,353	1,355
Industrial machinery and equipment .....	2,106	2,102	2,098	2,091	2,079	2,074	2,063	2,054	2,048	2,036	2,024	2,008	1,998
Electronic and other electrical equipment .....	1,689	1,682	1,675	1,665	1,657	1,647	1,636	1,628	1,621	1,611	1,599	1,597	1,595
Transportation equipment .....	2,011	2,013	2,002	1,987	1,971	1,957	1,897	1,902	1,888	1,859	1,846	1,845	1,860
Motor vehicles and equipment .....	829	832	826	817	810	805	758	770	763	746	738	753	775
Instruments and related products .....	1,009	1,007	1,004	999	998	995	991	989	985	982	978	976	971
Miscellaneous manufacturing .....	378	376	378	376	376	375	373	372	371	368	366	364	363
<b>Nondurable goods</b> .....	8,013	8,004	8,005	8,002	7,994	7,973	7,940	7,921	7,901	7,880	7,859	7,837	7,845
Food and kindred products .....	1,668	1,662	1,665	1,668	1,670	1,672	1,669	1,672	1,673	1,679	1,679	1,672	1,679
Tobacco products .....	49	49	49	50	49	49	49	49	49	49	48	48	48
Textile mill products .....	694	693	692	690	685	678	677	671	667	661	660	661	663
Apparel and other textile products .....	1,048	1,045	1,041	1,039	1,039	1,032	1,023	1,017	1,012	1,010	1,009	1,006	1,011
Paper and allied products .....	700	700	701	701	700	699	697	695	696	694	693	691	688
Printing and publishing .....	1,577	1,577	1,577	1,577	1,575	1,573	1,568	1,565	1,560	1,553	1,548	1,543	1,542
Chemicals and allied products .....	1,093	1,093	1,095	1,094	1,096	1,095	1,095	1,095	1,094	1,093	1,091	1,089	1,085
Petroleum and coal products .....	157	157	158	158	158	158	159	159	158	158	158	159	158
Rubber and misc. plastics products .....	892	894	895	894	892	889	877	873	868	861	852	849	852
Leather and leather products .....	135	134	132	131	130	128	126	125	124	122	121	119	119
<b>Service-producing</b> .....	85,163	85,342	85,242	85,223	85,271	85,277	85,280	85,246	85,237	85,121	85,025	84,929	84,969
<b>Transportation and public utilities</b> .....	5,820	5,831	5,832	5,839	5,854	5,855	5,852	5,867	5,866	5,834	5,824	5,815	5,822
Transportation .....	3,546	3,558	3,560	3,567	3,581	3,582	3,582	3,595	3,591	3,562	3,549	3,545	3,556
Communications and public utilities .....	2,274	2,273	2,272	2,272	2,273	2,273	2,270	2,272	2,275	2,272	2,275	2,270	2,266
<b>Wholesale trade</b> .....	6,212	6,220	6,215	6,211	6,204	6,190	6,180	6,166	6,138	6,119	6,105	6,082	6,079
Durable goods .....	3,635	3,639	3,636	3,630	3,624	3,613	3,604	3,596	3,576	3,562	3,550	3,532	3,527
Nondurable goods .....	2,577	2,581	2,579	2,581	2,580	2,577	2,576	2,570	2,562	2,557	2,555	2,552	2,552
<b>Retail trade</b> .....	19,701	19,714	19,710	19,714	19,698	19,663	19,628	19,579	19,542	19,464	19,378	19,325	19,312
General merchandise stores .....	2,528	2,530	2,526	2,520	2,511	2,491	2,470	2,444	2,431	2,415	2,396	2,372	2,357
Food stores .....	3,227	3,234	3,234	3,234	3,239	3,238	3,243	3,242	3,243	3,237	3,245	3,227	3,222
Automotive dealers and service stations .....	2,085	2,085	2,086	2,084	2,082	2,075	2,070	2,067	2,053	2,042	2,036	2,030	2,030
Eating and drinking places .....	6,547	6,559	6,559	6,578	6,577	6,586	6,596	6,601	6,608	6,582	6,561	6,561	6,561
<b>Finance, insurance, and real estate</b> .....	6,739	6,746	6,745	6,750	6,750	6,746	6,740	6,733	6,736	6,732	6,735	6,718	6,714
Finance .....	3,299	3,304	3,303	3,307	3,306	3,305	3,301	3,296	3,296	3,295	3,297	3,294	3,290
Insurance .....	2,114	2,118	2,121	2,123	2,126	2,127	2,128	2,128	2,136	2,137	2,140	2,133	2,133
Real estate .....	1,326	1,324	1,321	1,320	1,318	1,314	1,311	1,309	1,304	1,300	1,298	1,291	1,291
<b>Services</b> .....	28,151	28,254	28,310	28,388	28,437	28,479	28,525	28,548	28,590	28,583	28,576	28,569	28,612
Business services .....	5,237	5,256	5,260	5,269	5,291	5,295	5,287	5,275	5,271	5,256	5,254	5,258	5,272
Health services .....	7,794	7,830	7,860	7,899	7,929	7,965	7,997	8,032	8,061	8,089	8,114	8,149	8,180
<b>Government</b> .....	18,540	18,577	18,430	18,321	18,328	18,344	18,355	18,353	18,365	18,389	18,407	18,420	18,430
Federal .....	3,347	3,337	3,162	3,038	2,994	2,980	2,964	2,948	2,952	2,951	2,951	2,953	2,947
State .....	4,287	4,311	4,311	4,318	4,328	4,339	4,345	4,347	4,352	4,354	4,359	4,348	4,355
Local .....	10,906	10,929	10,957	10,965	11,006	11,025	11,046	11,058	11,061	11,084	11,097	11,119	11,128

<sup>P</sup> = preliminary.

NOTE: Data in this table have been revised to reflect March 1990 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 nonfarm payrolls by major industry and manufacturing group, seasonally adjusted**

(In thousands)

Industry	1990										1991		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>Total</b> .....	51,871	51,954	52,162	52,281	52,347	52,371	52,380	52,372	52,349	52,319	52,355	52,264	52,207
<b>Total private</b> .....	42,276	42,301	42,378	42,454	42,510	42,578	42,594	42,579	42,540	42,500	42,527	42,415	42,344
<b>Goods-producing</b> .....	7,003	6,991	6,982	6,972	6,964	6,949	6,930	6,894	6,844	6,826	6,802	6,762	6,723
<b>Mining</b> .....	95	95	96	96	96	96	97	95	96	97	97	98	98
<b>Construction</b> .....	556	555	556	555	555	555	555	553	551	550	548	544	542
<b>Manufacturing</b> .....	6,352	6,341	6,330	6,321	6,313	6,298	6,278	6,246	6,197	6,179	6,157	6,120	6,083
<b>Durable goods</b> .....	3,006	2,997	2,992	2,987	2,984	2,965	2,950	2,936	2,904	2,892	2,879	2,853	2,828
Lumber and wood products .....	120	120	120	120	120	119	118	117	116	115	114	111	109
Furniture and fixtures .....	161	160	161	161	159	160	159	157	154	153	152	149	148
Stone, clay, and glass products .....	111	110	110	109	109	109	109	109	108	107	106	106	104
Primary metal industries .....	103	103	103	104	104	103	102	102	102	101	101	99	99
Fabricated metal products .....	319	319	318	318	319	318	316	315	311	310	308	303	300
Industrial machinery and equipment .....	460	458	457	456	455	453	450	449	446	444	444	441	439
Electronic and other electrical equipment .....	726	723	721	718	716	710	705	701	696	692	688	686	678
Transportation equipment .....	409	409	408	409	409	406	404	401	389	389	386	379	375
Instruments and related products .....	420	419	418	417	416	413	412	411	409	408	407	407	405
Miscellaneous manufacturing .....	177	176	176	175	177	174	175	174	173	173	173	172	171
<b>Nondurable goods</b> .....	3,346	3,344	3,338	3,334	3,329	3,333	3,328	3,310	3,293	3,287	3,278	3,267	3,255
Food and kindred products .....	544	544	544	541	541	542	543	543	540	542	542	544	543
Tobacco products .....	17	16	17	16	17	17	17	16	16	17	16	16	16
Textile mill products .....	340	339	337	337	336	337	334	330	330	328	327	324	322
Apparel and other textile products .....	834	832	827	825	819	821	822	814	807	803	800	798	796
Paper and allied products .....	173	173	173	173	173	174	173	172	172	171	172	171	171
Printing and publishing .....	692	693	693	694	694	694	693	693	692	692	690	686	684
Chemicals and allied products .....	328	328	329	329	330	330	331	331	330	331	330	331	330
Petroleum and coal 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> )
Rubber and misc. plastics products .....	313	314	314	315	315	315	313	310	306	304	302	299	295
Leather and leather products .....	80	80	79	78	78	77	76	75	74	73	73	71	71
<b>Service-producing</b> .....	44,868	44,963	45,180	45,309	45,383	45,422	45,450	45,478	45,505	45,493	45,553	45,502	45,484
<b>Transportation and public utilities</b> .....	1,691	1,691	1,705	1,713	1,714	1,721	1,727	1,731	1,736	1,739	1,745	1,731	1,732
<b>Wholesale trade</b> .....	1,903	1,902	1,903	1,907	1,907	1,905	1,905	1,903	1,898	1,892	1,883	1,878	1,870
<b>Retail trade</b> .....	10,475	10,468	10,467	10,476	10,470	10,473	10,464	10,446	10,432	10,388	10,411	10,348	10,308
<b>Finance, insurance, and real estate</b> .....	4,245	4,252	4,256	4,250	4,266	4,277	4,276	4,273	4,270	4,262	4,271	4,271	4,272
<b>Services</b> .....	16,959	16,997	17,065	17,136	17,189	17,253	17,292	17,332	17,360	17,393	17,415	17,425	17,439
<b>Government</b> .....	9,595	9,653	9,784	9,827	9,837	9,793	9,786	9,793	9,809	9,819	9,828	9,849	9,863
Federal .....	1,236	1,268	1,362	1,358	1,324	1,264	1,237	1,231	1,225	1,220	1,222	1,226	1,227
State .....	2,118	2,121	2,129	2,146	2,143	2,148	2,156	2,161	2,167	2,169	2,173	2,174	2,176
Local .....	6,241	6,264	6,293	6,323	6,370	6,381	6,393	6,401	6,417	6,430	6,433	6,449	6,460

<sup>1</sup> This series is not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

NOTE: Data in this table have been revised to reflect March 1990 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 nonfarm payrolls by major industry and manufacturing group, seasonally adjusted**

(In thousands)

Industry	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>p</sup>	May <sup>p</sup>
<b>Total private</b> .....	74,364	74,447	74,401	74,407	74,348	74,209	73,984	73,841	73,666	73,378	73,172	72,973	73,005
<b>Goods-producing</b> .....	17,628	17,591	17,538	17,453	17,368	17,252	17,048	16,958	16,787	16,658	16,534	16,472	16,501
<b>Mining</b> .....	511	516	516	510	511	512	512	513	511	512	511	509	500
<b>Construction</b> .....	4,049	4,029	3,994	3,962	3,937	3,876	3,821	3,773	3,672	3,658	3,599	3,559	3,581
<b>Manufacturing</b> .....	13,068	13,046	13,028	12,981	12,920	12,864	12,715	12,672	12,604	12,488	12,424	12,404	12,420
<b>Durable goods</b> .....	7,449	7,434	7,417	7,375	7,322	7,287	7,172	7,148	7,098	7,000	6,956	6,949	6,959
Lumber and wood products .....	618	614	611	608	604	600	590	585	578	569	564	566	571
Furniture and fixtures .....	408	407	404	403	401	397	389	386	384	377	375	377	380
Stone, clay, and glass products .....	436	435	432	430	429	426	421	419	411	406	400	401	400
Primary metal industries .....	577	577	580	575	572	571	566	562	559	548	546	544	546
Blast furnaces and basic steel products .....	212	212	212	211	211	211	210	209	207	201	199	200	201
Fabricated metal products .....	1,056	1,054	1,056	1,053	1,046	1,041	1,030	1,024	1,018	994	990	988	990
Industrial machinery and equipment .....	1,269	1,265	1,262	1,257	1,246	1,244	1,235	1,228	1,223	1,215	1,209	1,199	1,186
Electronic and other electrical equipment .....	1,067	1,064	1,059	1,052	1,043	1,038	1,028	1,022	1,014	1,007	1,000	1,001	1,002
Transportation equipment .....	1,241	1,246	1,242	1,230	1,217	1,211	1,158	1,168	1,158	1,135	1,125	1,129	1,145
Motor vehicles and equipment .....	634	637	632	622	616	613	570	582	577	561	553	567	590
Instruments and related products .....	503	500	497	494	491	488	486	486	486	484	485	482	478
Miscellaneous manufacturing .....	274	272	274	273	273	271	269	268	267	265	262	262	261
<b>Nondurable goods</b> .....	5,619	5,612	5,611	5,606	5,598	5,577	5,543	5,524	5,506	5,488	5,468	5,455	5,461
Food and kindred products .....	1,199	1,194	1,197	1,201	1,203	1,204	1,202	1,206	1,208	1,213	1,213	1,206	1,210
Tobacco products .....	36	36	36	37	37	36	36	36	36	36	35	35	35
Textile mill products .....	596	594	593	592	588	580	580	574	571	565	564	565	567
Apparel and other textile products .....	879	877	873	870	870	864	854	850	844	843	842	842	846
Paper and allied products .....	524	525	526	526	525	525	522	521	522	522	521	519	518
Printing and publishing .....	876	876	877	876	873	871	867	864	860	855	851	848	844
Chemicals and allied products .....	604	604	604	601	601	600	598	596	594	592	591	591	588
Petroleum and coal products .....	103	103	103	103	103	104	104	103	102	102	102	103	102
Rubber and misc. plastics products .....	691	693	693	693	691	688	677	672	668	660	651	649	654
Leather and leather products .....	111	110	109	107	107	105	103	102	101	100	98	97	97
<b>Service-producing</b> .....	56,736	56,856	56,863	56,954	56,980	56,957	56,936	56,883	56,879	56,720	56,638	56,501	56,504
<b>Transportation and public utilities</b> .....	4,832	4,843	4,840	4,832	4,850	4,852	4,854	4,868	4,869	4,840	4,834	4,822	4,829
<b>Wholesale trade</b> .....	4,989	5,003	4,994	4,990	4,983	4,968	4,959	4,946	4,924	4,904	4,894	4,873	4,871
<b>Retail trade</b> .....	17,450	17,465	17,458	17,463	17,445	17,409	17,370	17,321	17,277	17,202	17,132	17,080	17,048
<b>Finance, insurance, and real estate</b> .....	4,896	4,879	4,868	4,899	4,891	4,886	4,876	4,863	4,869	4,863	4,862	4,854	4,859
<b>Services</b> .....	24,569	24,666	24,703	24,770	24,811	24,842	24,877	24,885	24,940	24,911	24,916	24,872	24,897

<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 1990 benchmarks and updated seasonal adjustment factors and differ from data previously published. See the article in this issue for additional information.

**ESTABLISHMENT DATA  
DIFFUSION INDEXES  
SEASONALLY ADJUSTED**

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

(Percent)

Time span	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Private nonfarm payrolls, 356 industries <sup>1</sup>												
Over 1-month span:												
1989 .....	64.5	59.0	58.7	53.9	52.7	53.8	52.9	54.6	49.2	56.6	59.6	52.1
1990 .....	58.1	58.1	52.2	48.7	52.8	48.3	46.6	47.8	45.1	41.4	40.3	42.0
1991 .....	38.5	36.9	38.6	<sup>P</sup> 37.5	<sup>P</sup> 50.8							
Over 3-month span:												
1989 .....	67.6	65.2	61.1	56.2	54.5	53.9	54.9	52.5	55.9	56.0	55.8	59.1
1990 .....	58.8	59.0	54.4	50.7	48.7	49.4	45.6	43.7	40.0	37.4	35.8	35.1
1991 .....	31.6	30.8	<sup>P</sup> 29.6	<sup>P</sup> 37.2								
Over 6-month span:												
1989 .....	67.7	65.0	63.3	59.0	56.5	53.4	54.5	55.9	53.8	58.1	57.9	59.1
1990 .....	56.6	55.2	55.2	51.8	47.6	44.9	42.7	38.6	37.2	34.8	30.9	28.8
1991 .....	<sup>P</sup> 26.4	<sup>P</sup> 30.2										
Over 12-month span:												
1989 .....	65.3	65.2	62.2	61.5	61.5	59.6	57.6	56.7	55.8	56.0	55.5	55.6
1990 .....	54.6	54.5	51.4	48.3	46.6	43.5	40.3	35.8	34.1	<sup>P</sup> 30.2	<sup>P</sup> 31.0	
1991 .....												
Manufacturing payrolls, 139 industries <sup>1</sup>												
Over 1-month span:												
1989 .....	58.6	50.7	48.9	47.5	47.1	44.2	44.2	45.7	38.8	48.2	48.6	45.3
1990 .....	46.0	51.1	41.4	47.8	41.7	39.6	43.2	40.3	38.8	34.5	27.3	33.8
1991 .....	31.7	28.4	29.9	<sup>P</sup> 38.1	<sup>P</sup> 50.7							
Over 3-month span:												
1989 .....	56.5	54.3	49.3	43.5	42.8	42.1	40.3	36.3	39.9	41.0	41.0	41.7
1990 .....	45.0	43.2	45.0	38.1	38.1	37.4	35.6	31.3	27.0	23.0	21.6	18.3
1991 .....	19.4	16.5	<sup>P</sup> 18.7	<sup>P</sup> 33.1								
Over 6-month span:												
1989 .....	57.9	51.8	48.6	45.0	41.7	38.1	38.1	38.1	35.6	38.8	39.6	39.6
1990 .....	39.9	36.7	37.1	40.3	32.4	30.6	24.1	20.5	21.2	17.3	16.2	11.9
1991 .....	<sup>P</sup> 10.4	<sup>P</sup> 17.6										
Over 12-month span:												
1989 .....	53.6	56.1	51.8	46.4	44.6	41.7	38.1	35.3	34.9	36.3	32.4	32.7
1990 .....	35.3	33.5	31.3	29.5	25.2	20.9	19.8	14.0	12.9	<sup>P</sup> 9.7	<sup>P</sup> 10.4	
1991 .....												

<sup>1</sup> Based on seasonally adjusted data for 1-, 3-, and 6-month spans and unadjusted data for the 12-month span. Data are centered within the span.  
<sup>P</sup> = preliminary.

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

indicates an equal balance between industries with increasing and decreasing employment. Data in this table have been revised to reflect March 1990 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 nonfarm payrolls in States and selected areas by major industry**

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Alabama</b> .....	1,635.2	1,632.8	1,639.5	12.8	12.5	12.8	83.0	79.1	79.2
Birmingham .....	418.9	421.4	422.6	5.8	5.5	5.5	23.5	22.7	22.8
Huntsville .....	135.7	133.7	135.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.5	5.1	4.9
Mobile .....	175.3	179.3	180.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	11.2	10.8	10.9
Montgomery .....	134.9	135.8	135.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.4	7.4	7.4
Tuscaloosa .....	67.2	66.6	67.4	3.3	3.3	3.4	4.3	3.9	3.9
<b>Alaska</b> .....	232.7	230.0	237.0	10.7	11.6	11.7	9.3	8.3	9.1
<b>Arizona</b> .....	1,494.9	1,527.2	1,526.0	12.2	12.8	12.8	80.9	77.0	77.2
Phoenix .....	965.8	1,003.6	1,001.7	.8	.7	.7	54.0	49.6	49.7
Tucson .....	255.1	262.3	262.9	2.1	2.3	2.3	14.5	14.8	15.0
<b>Arkansas</b> .....	918.0	937.6	946.4	4.1	3.8	3.9	35.4	35.7	37.3
Fayetteville-Springdale .....	55.9	56.6	56.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.7	1.8
Fort Smith .....	80.4	79.4	79.8	.9	.9	.9	2.6	2.7	2.8
Little Rock-North Little Rock .....	250.6	254.9	255.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.4	10.6	10.7
Pine Bluff .....	35.3	34.1	34.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	1.1	1.1
<b>California</b> .....	12,842.7	12,824.2	12,832.7	38.7	37.9	38.0	666.7	609.9	616.0
Anaheim-Santa Ana .....	1,218.5	1,205.7	1,206.4	1.3	1.2	1.2	70.8	58.8	59.9
Bakersfield .....	171.7	174.7	175.0	14.2	14.3	14.4	11.2	11.2	11.2
Fresno .....	228.2	238.0	240.6	.6	.6	.6	14.0	13.8	14.1
Los Angeles-Long Beach .....	4,299.2	4,275.3	4,266.0	8.2	8.2	8.2	160.0	154.4	153.2
Modesto .....	118.1	118.3	119.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.1	8.2	8.5
Oakland .....	694.5	905.7	907.5	3.4	2.9	2.9	50.5	47.1	47.9
Oxnard-Ventura .....	236.3	233.7	234.8	2.2	2.1	2.1	17.6	16.3	16.7
Riverside-San Bernardino .....	733.7	757.0	757.5	1.4	1.4	1.4	67.0	59.2	60.1
Sacramento .....	626.8	626.2	626.2	.8	.5	.5	40.6	33.2	34.7
Salinas-Seaside-Monterey .....	112.9	113.7	114.2	.3	.3	.3	4.5	4.5	4.4
San Diego .....	994.7	990.4	992.2	.7	.7	.7	62.5	57.4	57.5
San Francisco .....	970.7	976.5	978.7	.6	.6	.6	36.1	36.4	36.5
San Jose .....	833.9	826.7	824.5	.2	.3	.3	33.8	32.3	32.5
Santa Barbara-Santa Maria-Lompoc .....	152.7	152.0	151.8	1.2	1.2	1.2	7.5	7.0	7.3
Santa Rosa-Petaluma .....	142.0	148.6	148.6	.5	.5	.5	10.6	9.7	9.9
Stockton .....	154.2	154.1	154.9	.1	.1	.1	9.5	8.5	9.0
Valejo-Fairfield-Napa .....	139.4	140.5	142.1	.6	.4	.4	11.3	10.9	11.3
<b>Colorado</b> .....	1,503.8	1,538.5	1,540.3	19.2	19.5	19.7	57.3	80.1	62.9
Boulder-Longmont .....	116.7	117.7	118.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.5	3.4	3.5
Denver .....	829.9	844.6	849.4	10.8	11.3	11.3	30.6	32.1	33.7
<b>Connecticut</b> .....	1,635.5	1,604.6	1,606.6	1.0	.7	.8	61.5	48.5	52.0
Bridgeport-Milford .....	192.8	187.0	186.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6.8	6.1	6.2
Hartford .....	477.0	464.0	461.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.7	12.3	13.0
New Britain .....	64.8	61.8	61.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.4	3.2	3.6
New Haven-Meriden .....	259.0	250.4	253.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.6	7.5	8.2
Stamford .....	119.1	118.1	118.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.0	3.7	3.8
Waterbury .....	63.7	81.0	81.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.3	2.7	2.9
<b>Delaware</b> .....	346.9	341.6	336.6	.1	.1	.1	20.3	16.2	18.9
Wilmington .....	299.4	296.7	292.2	.2	.2	.2	17.8	15.6	16.3
<b>District of Columbia</b> .....	684.7	685.9	683.6	.1	.1	.1	14.4	13.9	13.6
Washington MSA .....	2,232.3	2,213.4	2,212.1	1.3	1.1	1.2	138.5	117.3	118.6
<b>Florida</b> .....	5,414.2	5,424.6	5,402.7	8.9	8.1	8.0	327.4	276.0	269.8
Daytona Beach .....	127.5	129.9	128.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	7.9	7.4	7.4
Fort Lauderdale-Hollywood-Pompano Beach .....	515.3	516.7	515.7	.3	.2	.2	33.1	26.5	28.2
Fort Myers-Cape Coral .....	129.6	136.4	135.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	12.9	12.2	12.0
Gainesville .....	101.9	102.1	101.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.4	4.0	3.9
Jacksonville .....	423.7	424.5	424.7	.7	.6	.6	27.0	23.0	22.6
Lakeland-Winter Haven .....	155.5	159.4	158.1	4.1	3.8	3.7	8.4	8.2	6.1
Melbourne-Titusville-Palm Bay .....	166.8	164.3	163.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6.8	7.9	7.5
Miami-Hialeah .....	863.7	877.3	870.2	.9	.8	.8	38.4	35.9	35.7
Orlando .....	567.1	569.6	567.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	37.5	33.0	32.4
Pensacola .....	130.6	130.4	131.4	.4	.4	.4	8.0	7.3	7.6
Sarasota .....	118.6	122.1	121.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.4	8.9	8.6
Tallahassee .....	128.3	127.9	127.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.8	5.4	5.4
Tampa-St. Petersburg-Clearwater .....	884.8	893.5	892.6	.5	.5	.5	49.6	44.8	43.6
West Palm Beach-Boca Raton-DeLray Beach .....	364.4	369.3	364.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	25.6	21.3	21.0

See footnotes at end of table.

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

**B-8. Employees on nonfarm 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. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Alabama</b> .....	386.2	376.2	377.7	82.5	84.2	84.3	350.7	348.6	351.2
Birmingham .....	58.1	55.8	56.4	32.5	32.4	32.1	98.8	98.0	98.5
Huntsville .....	33.0	31.3	32.9	3.2	3.2	3.2	24.9	24.8	24.8
Mobile .....	27.2	27.9	27.8	9.8	10.5	10.6	46.2	46.1	46.2
Montgomery .....	17.4	17.2	17.3	5.6	5.7	5.7	30.2	30.1	29.9
Tuscaloosa .....	10.3	10.2	10.4	2.1	2.1	2.1	13.6	14.1	14.2
<b>Alaska</b> .....	17.2	15.0	17.3	19.2	19.4	19.9	44.3	44.1	45.5
<b>Arizona</b> .....	183.7	181.7	181.4	81.9	81.9	81.8	368.0	379.4	378.8
Phoenix .....	137.5	135.5	135.3	58.0	58.0	58.0	246.4	255.8	254.9
Tucson .....	26.0	25.9	25.8	9.2	9.4	9.4	59.6	60.7	60.8
<b>Arkansas</b> .....	230.8	231.7	232.6	55.2	56.3	56.3	204.2	207.2	210.7
Fayetteville-Springdale .....	14.0	14.1	14.1	5.0	4.8	4.8	12.1	12.3	12.4
Fort Smith .....	25.8	24.5	24.6	4.7	4.7	4.7	16.5	16.2	16.3
Little Rock-North Little Rock .....	32.8	32.7	32.9	16.5	16.3	16.3	60.4	60.6	61.0
Pine Bluff .....	6.3	6.3	6.6	2.6	2.7	2.6	7.3	7.3	7.4
<b>California</b> .....	2,128.2	2,051.0	2,044.6	623.9	625.3	625.0	2,995.1	2,978.7	2,975.5
Anaheim-Santa Ana .....	252.6	248.7	247.1	37.7	37.8	37.6	300.9	298.6	297.4
Bakersfield .....	10.7	10.9	10.8	8.1	8.3	8.3	39.7	40.7	40.6
Fresno .....	26.0	25.3	26.3	12.3	12.8	12.9	57.2	59.4	59.9
Los Angeles-Long Beach .....	871.3	826.3	821.7	221.3	221.1	221.1	964.7	954.4	952.8
Modesto .....	24.0	23.4	23.8	4.9	5.2	5.3	30.4	30.6	30.5
Oakland .....	112.5	112.1	112.6	60.0	62.0	62.0	216.2	220.0	219.4
Oxnard-Ventura .....	33.4	31.8	31.9	12.1	12.2	11.6	57.5	57.5	57.7
Riverside-San Bernardino .....	88.7	89.0	88.6	35.0	35.8	35.8	181.5	187.6	187.8
Sacramento .....	44.7	44.4	44.8	28.2	28.5	28.6	143.0	144.3	143.4
Salinas-Seaside-Monterey .....	10.3	9.9	10.2	4.7	4.8	4.8	29.9	30.1	30.3
San Diego .....	137.2	133.0	132.3	36.8	36.8	36.8	236.2	233.6	234.3
San Francisco .....	79.5	78.7	78.4	78.1	77.7	77.5	211.7	209.8	209.5
San Jose .....	263.7	258.2	256.7	22.6	22.9	23.1	169.0	166.6	166.1
Santa Barbara-Santa Maria-Lompoc .....	22.3	21.7	21.2	5.5	5.5	5.5	34.1	34.1	34.0
Santa Rosa-Petaluma .....	21.3	21.7	21.7	6.6	6.8	6.8	36.1	39.2	39.2
Stockton .....	23.6	23.4	23.2	8.5	8.6	8.6	35.6	35.4	35.7
Vallejo-Fairfield-Napa .....	12.4	12.3	12.3	5.1	5.1	5.2	34.1	35.0	35.4
<b>Colorado</b> .....	192.1	191.1	190.2	95.7	96.5	96.9	364.0	369.7	370.1
Boulder-Longmont .....	30.1	29.9	30.0	2.3	2.3	2.3	24.6	24.7	24.7
Denver .....	94.5	93.0	92.8	69.2	69.9	69.7	201.3	204.6	205.0
<b>Connecticut</b> .....	347.0	330.9	329.7	73.1	73.1	73.5	359.7	353.3	352.5
Bridgeport-Milford .....	51.1	47.1	46.8	8.1	8.3	8.3	42.7	42.5	42.3
Hartford .....	84.1	82.1	81.6	19.2	18.9	19.0	102.6	97.0	95.9
New Britain .....	19.1	17.9	17.5	3.3	3.3	3.3	13.2	13.2	13.2
New Haven-Meriden .....	45.1	42.2	42.3	17.3	16.9	16.8	55.3	53.1	52.8
Stamford .....	19.6	18.8	18.7	6.1	6.3	6.4	26.8	27.2	27.1
Waterbury .....	21.0	18.4	18.1	3.4	3.4	3.4	17.4	17.1	17.1
<b>Delaware</b> .....	72.2	71.3	65.7	15.3	15.3	15.5	74.0	72.9	73.0
Wilmington .....	62.5	61.7	56.1	16.8	17.0	17.0	60.3	59.8	59.9
<b>District of Columbia</b> .....	15.7	15.5	15.4	24.1	23.5	23.5	62.3	60.0	60.8
Washington MSA .....	87.6	84.9	84.3	107.1	107.1	107.7	430.3	424.1	426.0
<b>Florida</b> .....	524.7	504.1	501.1	275.7	269.1	269.0	1,458.7	1,465.2	1,456.4
Daytona Beach .....	12.0	12.5	12.1	4.3	4.3	4.3	37.7	38.3	37.3
Fort Lauderdale-Hollywood-Pompano Beach .....	43.5	42.9	42.6	23.3	23.1	23.2	151.2	153.1	152.3
Fort Myers-Cape Coral .....	5.9	5.9	5.9	5.5	5.8	5.8	38.7	42.7	42.5
Gainesville .....	5.5	5.5	5.4	2.0	2.0	1.9	21.5	21.2	21.4
Jacksonville .....	36.2	35.1	35.4	28.8	29.1	29.3	110.8	115.2	114.9
Lakeland-Winter Haven .....	21.7	22.2	21.8	7.5	7.5	7.5	43.3	45.0	44.7
Melbourne-Titusville-Palm Bay .....	31.0	29.7	29.8	4.5	4.6	4.6	38.9	38.8	38.6
Miami-Hialeah .....	89.2	87.7	87.1	71.9	66.3	66.1	237.0	235.5	232.3
Orlando .....	54.4	52.0	52.0	29.1	29.1	29.0	147.3	148.0	146.9
Pensacola .....	11.9	11.4	11.4	6.6	6.4	6.4	32.4	32.5	33.0
Sarasota .....	8.6	8.7	8.5	3.7	3.7	3.7	35.3	36.0	35.1
Tallahassee .....	4.7	4.3	4.2	3.1	3.1	3.1	26.5	27.4	27.3
Tampa-St. Petersburg-Clearwater .....	92.3	89.9	89.7	41.5	41.1	41.1	243.1	248.0	248.2
West Palm Beach-Boca Raton-Delray Beach .....	33.3	32.3	31.2	14.3	14.9	14.9	97.8	100.2	98.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Alabama</b> .....	73.2	73.4	73.4	316.4	325.0	326.4	330.4	333.8	334.5
Birmingham .....	30.3	30.7	30.3	104.1	108.8	109.1	65.8	67.5	67.9
Huntsville .....	3.9	3.9	3.9	32.8	33.2	33.6	32.4	32.2	32.2
Mobile .....	8.1	8.0	8.0	42.2	44.3	45.0	30.6	31.7	31.9
Montgomery .....	8.2	8.4	8.4	31.1	31.4	31.4	35.0	35.6	35.5
Tuscaloosa .....	2.1	2.2	2.2	10.5	9.9	10.1	21.0	20.9	21.1
<b>Alaska</b> .....	10.1	10.2	10.3	49.4	50.0	50.8	72.5	71.4	72.4
<b>Arizona</b> .....	94.6	95.3	95.3	406.8	420.6	421.1	266.8	278.5	277.6
Phoenix .....	74.9	76.1	76.0	277.7	284.6	284.7	136.5	143.1	142.4
Tucson .....	12.3	11.6	11.7	73.9	77.6	77.8	57.5	60.0	60.0
<b>Arkansas</b> .....	38.1	38.2	38.5	188.8	198.9	201.7	161.4	165.8	165.4
Fayetteville-Springdale .....	1.7	1.7	1.7	9.6	9.8	9.8	11.7	12.4	12.3
Fort Smith .....	2.7	2.7	2.6	18.8	19.0	19.2	8.4	8.7	8.7
Little Rock-North Little Rock .....	15.5	15.6	15.5	65.8	67.7	68.4	49.2	51.4	50.9
Pine Bluff .....	1.2	1.2	1.2	7.4	7.2	7.3	8.0	8.3	8.3
<b>California</b> .....	842.6	844.3	843.2	3,449.5	3,547.8	3,556.8	2,098.0	2,129.3	2,133.6
Anaheim-Santa Ana .....	102.0	103.6	103.6	324.4	326.7	328.5	128.8	130.3	131.1
Bakersfield .....	6.8	6.7	6.7	36.1	36.7	36.9	44.9	45.9	46.1
Fresno .....	13.0	13.8	13.7	52.7	56.2	56.1	52.4	56.1	57.0
Los Angeles-Long Beach .....	292.3	292.5	291.3	1,236.9	1,274.0	1,273.7	544.5	544.4	544.0
Modesto .....	4.9	4.7	4.8	24.5	25.1	25.4	20.3	21.1	21.3
Oakland .....	57.9	57.4	57.4	224.0	232.0	232.9	170.0	172.2	172.4
Oxnard-Ventura .....	12.7	12.0	12.0	58.8	57.2	58.0	44.0	44.6	44.8
Riverside-San Bernardino .....	32.1	33.6	33.6	177.7	193.5	193.2	150.3	156.9	157.0
Sacramento .....	40.4	41.8	42.2	142.4	145.1	144.6	186.9	188.4	189.4
Salinas-Seaside-Monterey .....	6.2	6.5	6.5	28.9	28.8	28.9	28.1	28.8	28.8
San Diego .....	68.0	67.0	66.7	273.8	279.6	281.0	179.5	182.3	182.9
San Francisco .....	108.6	108.8	108.6	316.1	322.8	325.2	140.0	141.7	142.4
San Jose .....	32.7	32.2	32.2	222.2	223.1	222.6	89.7	91.1	91.0
Santa Barbara-Santa Maria-Lompoc .....	8.6	8.6	8.6	43.2	44.1	44.2	30.3	29.8	29.8
Santa Rosa-Petaluma .....	8.5	8.9	8.9	33.8	36.5	36.6	24.6	25.3	25.2
Stockton .....	9.8	9.6	9.6	33.4	33.8	34.0	33.9	34.7	34.7
Vallejo-Fairfield-Napa .....	5.0	5.3	5.3	32.6	33.8	34.5	38.3	37.7	37.7
<b>Colorado</b> .....	96.2	97.5	97.4	397.5	415.3	413.8	281.8	288.8	289.3
Boulder-Longmont .....	4.2	4.2	4.2	28.3	28.9	29.0	23.7	24.3	24.3
Denver .....	64.0	64.7	64.8	228.9	234.4	236.9	130.6	134.6	135.2
<b>Connecticut</b> .....	151.0	148.3	147.8	428.3	435.5	436.1	213.9	214.3	214.2
Bridgeport-Milford .....	11.8	11.3	11.3	52.0	51.9	52.1	20.3	19.8	19.7
Hartford .....	74.5	73.5	72.9	116.1	115.5	114.8	63.8	64.7	64.6
New Britain .....	2.9	2.8	2.8	14.9	14.4	14.4	7.0	7.0	7.0
New Haven-Meriden .....	16.8	16.2	16.1	81.6	82.8	85.6	32.3	31.7	32.0
Stamford .....	14.0	14.1	14.0	37.9	37.5	37.6	10.7	10.5	10.4
Waterbury .....	4.7	4.4	4.4	21.1	21.9	22.2	12.8	13.1	13.0
<b>Delaware</b> .....	31.4	32.3	32.2	84.3	84.0	83.8	49.3	47.5	47.4
Wilmington .....	28.0	29.2	29.1	74.9	75.1	75.5	38.9	38.1	38.1
<b>District of Columbia</b> .....	33.7	33.0	32.7	259.5	263.2	262.7	274.9	276.7	275.0
Washington MSA .....	130.4	128.2	127.7	753.9	758.9	758.4	583.2	591.8	588.2
<b>Florida</b> .....	370.9	364.9	363.7	1,594.2	1,658.5	1,856.7	853.7	878.7	878.0
Daytona Beach .....	5.8	5.6	5.7	37.8	39.2	38.8	22.0	22.6	22.9
Fort Lauderdale-Hollywood-Pompano Beach .....	40.2	39.8	39.5	154.8	158.9	157.3	68.9	72.2	72.4
Fort Myers-Cape Coral .....	9.4	9.1	9.0	37.0	39.4	39.1	20.1	21.2	21.1
Gainesville .....	4.8	4.5	4.6	25.6	26.2	26.2	38.2	38.6	38.4
Jacksonville .....	41.7	41.5	41.5	113.4	115.2	115.5	65.1	64.8	64.9
Lakeland-Winter Haven .....	9.1	8.9	8.8	38.1	39.6	39.4	23.3	24.2	24.1
Melbourne-Titusville-Palm Bay .....	5.8	5.5	5.5	53.3	54.0	54.0	24.4	23.8	23.8
Miami-Hialeah .....	70.9	70.3	69.9	251.6	257.4	254.9	123.8	123.4	123.4
Orlando .....	32.9	31.9	31.7	199.8	208.1	208.2	66.0	67.4	67.5
Pensacola .....	5.6	5.7	5.8	34.4	35.0	35.2	31.3	31.7	31.6
Sarasota .....	8.4	8.2	8.3	39.6	42.3	42.6	13.6	14.3	14.2
Tallahassee .....	5.3	5.3	5.3	27.6	28.2	28.2	53.0	53.9	53.9
Tampa-St. Petersburg-Clearwater .....	64.7	64.3	63.9	276.2	287.0	287.6	116.9	117.9	118.0
West Palm Beach-Boca Raton-DeLray Beach .....	29.2	28.1	27.7	117.0	124.3	122.8	47.2	48.2	48.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Georgia</b> .....	2,979.5	2,946.7	2,954.5	8.7	8.5	8.6	145.8	132.8	133.0
Albany .....	50.3	51.0	51.0	(?)	(?)	(?)	2.3	3.0	3.0
Athens .....	68.9	67.2	67.3	.1	.1	.1	2.5	2.6	2.4
Atlanta .....	1,471.2	1,460.8	1,465.7	1.2	1.1	1.1	67.2	59.6	60.8
Augusta .....	181.6	181.2	181.8	.5	.6	.6	17.3	18.4	18.3
Columbus .....	96.7	96.4	96.5	.1	.1	.1	5.2	5.5	5.7
Macon-Warner Robins .....	128.4	128.3	127.9	.2	.1	.1	5.6	4.7	4.7
Savannah .....	111.1	114.1	114.6	(?)	(?)	(?)	8.9	11.4	11.6
<b>Hawaii</b> .....	526.0	535.3	534.9	(?)	(?)	(?)	31.0	32.5	32.8
Honolulu .....	409.0	414.4	414.0	(?)	(?)	(?)	23.5	24.1	24.4
<b>Idaho</b> .....	378.8	390.4	393.6	3.8	3.4	3.4	17.0	17.8	19.0
Boise City .....	104.4	107.6	107.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.6	4.8	5.2
<b>Illinois</b> .....	5,255.7	5,236.1	5,267.4	19.4	19.2	19.5	210.0	199.1	209.0
Aurora-Elgin .....	149.1	148.0	149.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.6	7.6	8.4
Bloomington-Normal .....	65.9	66.4	66.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.5	1.7
Champaign-Urbana-Rantoul .....	91.8	92.4	92.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	2.3	2.4
Chicago .....	3,188.7	3,175.2	3,193.6	2.3	2.0	2.1	127.6	118.2	124.0
Davenport-Rock Island-Moline .....	161.7	161.1	162.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.3	4.9	5.7
Decatur .....	53.6	53.8	53.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.9	2.9	2.9
Joliet .....	105.4	104.5	105.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.7	7.1	7.7
Kankakee .....	35.8	36.2	36.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.7	1.7
Lake County .....	219.8	216.1	220.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.1	10.8	12.1
Peoria .....	148.9	148.4	148.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.7	7.1	7.2
Rockford .....	137.9	132.7	136.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.8	5.6	6.1
Springfield .....	105.1	105.3	105.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	3.3	3.7
<b>Indiana</b> .....	2,517.9	2,485.3	2,503.8	8.0	7.2	7.3	114.7	107.1	113.0
Anderson .....	51.0	49.6	50.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.2	1.3
Bloomington .....	56.2	56.1	57.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.2	2.6
Elkhart-Goshen .....	102.8	98.9	100.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	3.0	3.2
Evansville .....	134.7	134.8	136.2	2.1	1.8	1.7	7.2	5.7	5.9
Fort Wayne .....	201.8	199.0	202.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.6	9.1	9.4
Gary-Hammond .....	245.3	243.9	246.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.4	14.5	14.7
Indianapolis .....	665.3	668.6	674.8	.8	.8	.8	36.9	35.1	37.0
Kokomo .....	47.2	45.0	45.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.1	1.3
Lafayette-West Lafayette .....	71.0	70.3	71.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	2.6	2.7
Muncie .....	54.7	53.9	54.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.0	2.2
South Bend-Mishawaka .....	118.5	119.8	120.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.8	6.5	6.8
Terre Haute .....	58.5	58.3	59.1	.5	.5	.5	2.4	2.1	2.2
<b>Iowa</b> .....	1,221.5	1,221.3	1,236.7	2.1	1.9	2.0	42.4	37.3	43.5
Cedar Rapids .....	93.3	94.0	94.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	4.5	4.6
Des Moines .....	230.6	233.6	233.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.1	8.8	9.1
Dubuque .....	44.8	45.6	45.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.6	1.7
Iowa City .....	56.7	56.1	56.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.5	1.6
Sioux City .....	55.3	55.5	56.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.3	2.6
Waterloo-Cedar Falls .....	70.4	71.2	72.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.1	2.3
<b>Kansas</b> .....	1,087.1	1,091.3	1,099.6	9.8	10.3	10.2	40.5	39.6	41.5
Lawrence .....	37.5	37.3	38.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.5	1.5
Topeka .....	92.2	89.5	90.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	3.1	3.3
Wichita .....	240.8	245.8	246.3	1.8	2.0	2.0	9.2	9.7	10.4
<b>Kentucky</b> .....	1,462.2	1,476.7	1,484.1	35.7	35.2	34.8	64.8	64.3	66.1
Lexington-Fayette .....	200.8	197.6	199.8	.3	.2	.2	10.4	9.8	9.9
Louisville .....	475.2	481.6	485.8	.6	.6	.6	22.7	22.2	22.8
Owensboro .....	36.1	36.0	36.1	.5	.5	.3	2.1	2.0	2.0
<b>Louisiana</b> .....	1,580.9	1,615.3	1,622.2	55.0	55.8	55.8	89.8	94.2	97.1
Alexandria .....	45.9	46.5	46.8	.1	.1	.1	2.9	3.3	3.4
Baton Rouge .....	235.4	239.8	239.9	.8	.9	.9	26.5	27.1	27.3
Houma-Thibodaux .....	57.3	58.8	59.3	5.5	5.7	5.7	1.8	2.2	2.2
Lafayette .....	95.4	99.6	100.5	12.2	12.8	12.7	3.9	4.6	4.7
Lake Charles .....	67.3	68.3	69.2	1.3	1.4	1.3	6.1	7.1	8.0
Monroe .....	59.3	58.5	58.4	.4	.4	.3	2.6	2.7	2.6
New Orleans .....	530.5	543.2	542.8	13.7	14.3	14.3	23.3	24.0	24.0
Shreveport .....	132.1	131.4	133.3	3.0	3.2	3.1	5.8	6.1	6.0

See footnotes at end of table.

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

**B-8. Employees on nonfarm 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. 1990	Mar. 1991	Apr. 1991P	Apr. 1990	Mar. 1991	Apr. 1991P	Apr. 1990	Mar. 1991	Apr. 1991P
<b>Georgia</b> .....	562.9	536.2	537.4	195.5	190.6	191.4	737.8	725.9	728.3
Albany .....	8.1	8.2	8.2	2.8	2.9	2.8	12.1	12.0	11.9
Athens .....	15.3	14.8	14.7	2.0	1.9	1.9	15.4	14.8	14.8
Atlanta .....	175.2	165.6	167.6	126.8	123.2	123.4	399.5	392.5	394.2
Augusta .....	41.0	41.1	40.9	4.8	4.6	4.6	38.8	37.5	38.0
Columbus .....	21.0	20.3	20.4	3.3	3.1	3.1	20.6	19.0	18.9
Macon-Warner Robins .....	18.7	18.7	18.4	5.0	5.2	5.2	28.7	28.7	28.6
Savannah .....	17.3	16.9	16.8	9.2	9.5	9.4	26.8	26.3	26.5
<b>Hawaii</b> .....	20.9	20.1	20.3	41.6	42.5	42.4	133.9	135.1	134.3
Honolulu .....	15.9	15.0	15.2	33.8	34.4	34.5	101.2	101.8	101.1
<b>Idaho</b> .....	60.3	61.6	61.5	19.4	19.6	19.8	95.3	97.5	98.6
Boise City .....	15.6	16.1	16.0	5.7	5.9	5.9	26.3	27.1	27.0
<b>Illinois</b> .....	983.4	971.2	973.1	308.8	308.3	308.6	1,246.7	1,245.9	1,252.9
Aurora-Elgin .....	38.5	38.0	38.2	3.7	3.7	3.7	39.3	40.1	40.1
Bloomington-Normal .....	7.8	7.6	7.5	3.1	3.0	3.0	14.9	14.8	14.9
Champaign-Urbana-Rantoul .....	9.8	9.9	9.8	2.4	2.3	2.3	19.3	18.7	19.1
Chicago .....	560.9	555.1	554.8	207.3	208.5	208.7	750.9	753.5	757.5
Davenport-Rock Island-Moline .....	32.2	31.3	31.2	7.3	7.3	7.4	45.9	46.8	46.8
Decatur .....	14.6	14.5	14.5	4.2	4.4	4.4	11.5	11.5	11.5
Joliet .....	19.7	19.3	19.2	8.5	8.5	8.6	24.1	24.3	24.3
Kankakee .....	5.7	5.8	5.7	2.2	2.1	2.1	8.7	8.7	8.6
Lake County .....	47.5	48.5	47.8	5.9	5.8	5.8	58.2	57.8	58.2
Peoria .....	34.2	33.0	33.1	7.1	7.1	7.1	34.7	34.4	34.2
Rockford .....	48.5	44.1	47.2	5.0	4.9	5.0	29.7	29.3	29.4
Springfield .....	4.4	4.4	4.4	4.8	4.8	4.8	22.9	22.7	22.8
<b>Indiana</b> .....	637.3	609.5	615.7	130.7	131.9	132.8	596.9	586.1	589.1
Anderson .....	16.8	15.4	15.9	1.2	1.2	1.2	12.1	11.7	11.8
Bloomington .....	9.4	9.0	9.0	1.7	1.7	1.7	12.7	12.4	12.8
Elkhart-Goshen .....	51.9	48.7	49.8	3.3	3.3	3.3	19.2	18.0	18.2
Evansville .....	31.0	30.2	30.7	7.0	6.9	6.9	34.9	35.3	35.6
Fort Wayne .....	50.9	47.7	50.6	13.8	13.7	13.9	51.2	49.9	50.1
Gary-Hammond .....	58.2	54.6	54.7	16.6	16.5	16.5	59.1	57.7	59.1
Indianapolis .....	110.2	106.5	107.7	43.0	43.0	43.6	170.1	170.6	171.5
Kokomo .....	19.0	17.3	17.3	1.4	1.3	1.4	10.4	9.8	10.1
Lafayette-West Lafayette .....	13.7	13.6	13.7	2.0	2.0	2.0	14.5	14.0	14.0
Muncie .....	11.2	10.2	10.5	2.6	2.7	2.7	12.8	12.6	12.6
South Bend-Mishawaka .....	21.9	21.0	21.0	5.7	5.6	5.6	30.5	30.6	30.7
Terre Haute .....	10.7	10.6	10.8	2.9	2.7	2.8	15.8	15.8	16.0
<b>Iowa</b> .....	234.6	230.4	230.7	55.6	55.2	55.0	306.0	302.8	307.9
Cedar Rapids .....	21.8	21.3	21.3	6.2	6.0	6.0	21.9	22.3	22.3
Des Moines .....	26.4	26.2	25.9	12.6	12.1	12.1	59.1	58.6	58.9
Dubuque .....	12.4	12.3	12.5	1.6	1.7	1.7	10.5	10.3	10.4
Iowa City .....	4.6	4.4	4.5	1.5	1.4	1.4	10.7	10.9	11.0
Sioux City .....	10.8	10.7	10.8	3.1	3.2	3.2	14.2	13.9	14.0
Waterloo-Cedar Falls .....	16.1	16.5	16.7	1.8	1.9	1.8	16.8	16.7	17.0
<b>Kansas</b> .....	185.9	184.8	184.0	66.3	67.4	67.3	265.5	263.6	264.8
Lawrence .....	4.7	4.6	4.7	1.0	1.0	1.0	8.2	7.9	8.1
Topeka .....	9.6	9.7	9.8	7.2	6.7	6.7	20.2	18.8	19.0
Wichita .....	63.9	64.0	64.0	11.7	11.4	11.3	55.7	57.3	57.0
<b>Kentucky</b> .....	285.4	280.1	279.9	78.9	80.2	80.8	344.5	349.5	351.8
Lexington-Fayette .....	33.2	32.4	32.2	9.0	9.0	9.1	44.6	44.1	45.3
Louisville .....	88.9	86.5	87.9	30.6	30.6	30.9	116.4	121.3	121.7
Owensboro .....	6.5	6.3	6.5	2.1	2.3	2.3	9.4	9.1	9.3
<b>Louisiana</b> .....	180.6	182.4	184.4	110.0	110.4	110.4	366.4	374.1	375.7
Alexandria .....	3.4	3.2	3.3	2.3	2.3	2.3	10.3	10.3	10.3
Baton Rouge .....	22.3	23.3	23.2	11.1	11.5	11.3	52.5	54.1	54.2
Houma-Thibodaux .....	5.4	5.6	5.7	6.5	6.6	6.7	14.3	14.6	14.8
Lafayette .....	8.7	9.3	9.4	6.8	7.2	7.2	24.9	25.7	25.9
Lake Charles .....	12.0	11.3	11.2	4.4	4.4	4.4	15.7	15.4	15.5
Monroe .....	7.7	7.8	7.8	3.3	3.0	3.0	15.0	14.6	14.7
New Orleans .....	43.9	45.3	45.1	44.0	44.2	44.2	131.3	132.3	131.8
Shreveport .....	17.4	15.5	17.4	8.1	8.1	8.2	31.8	32.1	32.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Georgia</b> .....	161.6	162.2	162.1	633.6	647.9	651.8	533.6	542.8	542.1
Albany .....	2.2	2.2	2.2	9.0	9.0	9.1	13.8	13.7	13.8
Athens .....	2.2	2.1	2.1	10.9	10.6	10.9	20.5	20.4	20.4
Atlanta .....	107.3	108.1	107.9	372.1	381.2	381.5	221.9	229.5	229.2
Augusta .....	6.1	6.0	5.9	38.8	36.4	36.8	36.3	36.7	36.7
Columbus .....	6.2	6.3	6.3	19.3	20.4	20.4	20.9	21.7	21.7
Macon-Warner Robins .....	7.6	8.2	8.2	27.0	27.1	27.2	35.6	35.5	35.4
Savannah .....	4.8	5.1	5.1	27.0	28.1	28.4	17.2	16.9	16.8
<b>Hawaii</b> .....	36.4	37.7	37.8	153.4	157.1	157.5	108.8	110.3	109.8
Honolulu .....	29.3	30.1	30.3	114.2	117.1	117.1	91.1	91.9	91.4
<b>Idaho</b> .....	19.6	20.0	19.9	80.5	84.2	84.7	82.9	86.3	86.7
Boise City .....	8.0	8.3	8.1	23.6	24.5	24.6	19.6	20.9	21.1
<b>Illinois</b> .....	375.1	373.0	372.8	1,335.0	1,347.0	1,359.4	777.3	772.4	772.1
Aurora-Elgin .....	8.3	8.3	8.4	34.0	33.7	34.2	16.7	16.6	16.6
Bloomington-Normal .....	11.1	11.3	11.3	14.2	14.5	14.5	13.1	13.7	13.6
Champaign-Urbana-Rantoul .....	3.2	3.3	3.3	18.1	18.6	18.6	36.5	37.3	37.3
Chicago .....	267.3	265.5	265.8	891.5	893.0	901.4	380.9	379.4	379.5
Davenport-Rock Island-Moline .....	7.6	7.8	7.8	36.7	36.8	37.1	26.7	26.2	26.6
Decatur .....	2.3	2.3	2.3	12.3	12.3	12.2	5.8	5.9	6.0
Joliet .....	3.6	3.7	3.7	24.0	23.8	24.1	17.8	17.8	18.0
Kankakee .....	1.9	1.8	1.8	9.1	9.5	9.4	6.6	6.6	6.7
Lake County .....	13.3	13.4	13.4	51.4	47.9	51.2	31.4	31.9	31.8
Peoria .....	7.6	7.7	7.6	41.3	41.9	41.9	17.3	17.2	17.3
Rockford .....	5.6	5.5	5.5	30.6	30.9	30.8	12.7	12.4	12.4
Springfield .....	8.0	8.2	8.1	27.1	27.0	26.9	34.5	34.9	34.9
<b>Indiana</b> .....	121.5	123.0	123.4	525.5	535.0	537.2	383.4	385.5	385.2
Anderson .....	1.6	1.6	1.6	11.2	11.6	11.6	6.7	6.9	6.9
Bloomington .....	2.0	1.9	1.9	9.9	10.5	10.7	18.2	18.4	18.4
Eikhart-Goshen .....	2.9	2.6	2.6	16.1	16.9	17.4	6.2	6.8	6.5
Evansville .....	5.3	5.4	5.5	34.1	35.5	35.9	13.2	13.9	14.0
Fort Wayne .....	12.7	12.9	12.9	44.3	45.8	46.2	19.4	19.9	19.7
Gary-Hammond .....	8.3	8.4	8.4	56.9	58.4	58.9	33.9	33.7	33.7
Indianapolis .....	49.3	51.3	51.6	156.2	160.3	161.7	98.8	101.0	100.9
Kokomo .....	1.4	1.3	1.3	7.4	7.6	7.6	6.0	6.6	6.6
Lafayette-West Lafayette .....	3.0	3.0	3.0	13.0	12.9	13.0	22.2	22.2	22.5
Muncie .....	1.7	1.7	1.7	11.7	12.0	12.2	12.4	12.6	12.5
South Bend-Mishawaka .....	6.2	6.3	6.4	36.4	37.6	37.5	11.9	12.2	12.2
Terre Haute .....	2.1	2.1	2.1	12.6	12.7	12.6	11.6	11.8	12.2
<b>Iowa</b> .....	68.9	70.5	70.3	288.1	295.8	299.4	223.8	227.4	227.9
Cedar Rapids .....	4.9	4.9	4.9	23.5	23.1	23.4	10.7	11.9	11.9
Des Moines .....	31.4	32.5	32.2	59.9	62.1	62.2	32.1	33.3	33.1
Dubuque .....	1.5	1.6	1.6	13.7	14.0	13.9	3.6	4.1	4.1
Iowa City .....	1.4	1.4	1.5	10.1	10.0	10.1	26.8	26.5	26.4
Sioux City .....	2.5	2.6	2.6	15.6	16.4	16.6	6.9	6.4	6.5
Waterloo-Cedar Falls .....	3.0	3.2	3.3	16.7	17.0	17.1	13.7	13.8	13.8
<b>Kansas</b> .....	58.1	58.3	58.6	240.8	245.9	247.6	220.2	221.4	225.6
Lawrence .....	1.6	1.5	1.6	7.8	8.1	8.5	12.5	12.7	13.2
Topeka .....	6.5	6.3	6.4	22.8	22.6	22.7	22.3	22.3	22.9
Wichita .....	11.1	11.5	11.6	58.2	59.9	60.0	29.2	30.0	30.0
<b>Kentucky</b> .....	61.2	61.1	61.5	326.3	335.8	338.2	265.4	270.5	271.0
Lexington-Fayette .....	9.4	9.6	9.6	49.6	49.2	49.8	44.3	43.3	43.7
Louisville .....	27.6	27.9	28.0	123.5	126.9	128.1	64.9	65.6	65.8
Owensboro .....	1.5	1.5	1.5	8.5	8.5	8.5	5.5	5.8	5.7
<b>Louisiana</b> .....	78.4	79.0	79.2	369.8	381.6	381.3	330.9	337.8	338.3
Alexandria .....	2.1	2.0	2.0	12.1	12.3	12.3	12.7	13.0	13.1
Baton Rouge .....	13.0	13.0	13.0	53.2	54.8	54.7	56.0	55.1	55.3
Houma-Thibodaux .....	2.1	2.1	2.1	10.6	11.0	11.0	11.1	11.0	11.1
Lafayette .....	3.3	3.3	3.4	22.1	22.6	23.2	13.5	14.1	14.0
Lake Charles .....	2.7	2.6	2.6	14.2	14.9	14.9	10.9	11.2	11.3
Monroe .....	4.2	4.4	4.4	13.3	13.5	13.5	12.8	12.1	12.1
New Orleans .....	31.8	31.5	31.5	153.3	160.8	160.8	89.2	90.8	91.1
Shreveport .....	6.4	6.4	6.5	32.7	33.1	33.1	26.9	26.9	26.8

See footnotes at end of table.



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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Maine</b> .....	530.6	507.2	505.7	0.1	0.1	0.1	27.5	21.8	22.7
Lewiston-Auburn .....	39.7	37.7	38.1	(?)	(?)	(?)	1.8	1.6	1.7
Portland .....	129.3	122.8	122.5	(?)	(?)	(?)	6.5	4.6	5.0
<b>Maryland</b> .....	2,174.6	2,151.6	2,160.7	2.1	2.0	2.2	161.0	150.6	154.1
Baltimore MSA .....	1,159.2	1,141.3	1,146.9	.5	.5	.5	75.5	69.9	72.0
Baltimore City .....	474.2	465.1	466.6	(1)	(1)	(1)	18.7	17.1	17.5
Suburban Maryland-D.C. ....	773.2	775.4	773.7	(1)	(1)	(1)	68.9	63.4	64.7
<b>Massachusetts</b> .....	2,990.9	2,839.6	2,842.3	1.4	1.2	1.3	99.6	70.8	74.2
Boston .....	1,686.5	1,603.0	1,602.8	.6	.5	.5	51.2	39.3	40.6
Brockton .....	71.0	67.3	67.3	(?)	(?)	(?)	2.3	1.9	2.0
Fall River .....	52.6	50.7	50.7	(?)	(?)	(?)	1.8	1.3	1.4
Fitchburg-Leominster .....	39.4	36.3	36.4	(?)	(?)	(?)	1.5	1.0	1.1
Lawrence-Haverhill .....	155.8	147.4	147.4	(?)	(?)	(?)	5.6	4.1	4.4
Lowell .....	100.5	95.7	95.9	(1)	(1)	(1)	3.7	2.9	3.1
New Bedford .....	63.9	61.8	62.2	(?)	(?)	(?)	2.3	1.6	1.8
Pittsfield .....	41.9	40.2	40.3	.1	.1	.1	2.1	1.4	1.5
Springfield .....	234.8	227.9	227.3	.1	.1	.1	7.5	6.0	6.5
Worcester .....	195.0	181.2	181.0	.2	.2	.2	6.3	4.8	4.8
<b>Michigan</b> .....	3,944.6	3,821.5	3,843.0	9.9	9.3	9.6	131.8	111.1	119.7
Ann Arbor .....	181.5	181.9	178.8	(1)	(1)	(1)	4.5	3.7	3.8
Battle Creek .....	60.3	60.2	60.1	(1)	(1)	(1)	2.0	1.8	2.1
Benton Harbor .....	67.4	65.4	66.3	(1)	(1)	(1)	1.9	1.8	1.9
Detroit .....	1,932.6	1,870.1	1,878.3	1.0	1.0	1.2	60.0	51.7	56.0
Flint .....	172.0	164.7	169.0	(1)	(1)	(1)	4.5	4.3	4.5
Grand Rapids .....	356.9	353.5	356.4	(1)	(1)	(1)	16.8	13.8	14.6
Jackson .....	54.6	53.3	53.6	(1)	(1)	(1)	2.0	1.7	1.8
Kalamazoo .....	115.6	114.8	114.9	(1)	(1)	(1)	3.8	3.5	3.6
Lansing-East Lansing .....	217.8	217.4	218.5	(1)	(1)	(1)	6.3	5.3	5.7
Muskegon .....	59.0	58.2	58.6	(1)	(1)	(1)	2.6	2.1	2.3
Saginaw-Bay City-Midland .....	162.3	160.8	162.6	(1)	(1)	(1)	7.3	6.7	6.9
<b>Minnesota</b> .....	2,109.7	2,088.7	2,110.0	7.8	7.6	8.2	73.2	60.9	67.3
Duluth .....	96.6	97.5	97.7	5.3	5.3	5.4	3.1	2.9	2.9
Minneapolis-St. Paul .....	1,361.1	1,347.4	1,358.6	(?)	(?)	(?)	47.4	39.8	43.1
Rochester .....	64.9	66.5	66.5	(1)	(1)	(1)	2.0	1.9	2.0
St. Cloud .....	78.4	77.9	79.1	(1)	(1)	(1)	3.4	2.3	2.9
<b>Mississippi</b> .....	935.9	933.5	939.8	6.0	6.0	5.9	36.2	33.6	34.0
Jackson .....	186.2	185.2	186.6	.5	.5	.5	7.2	6.8	6.9
<b>Missouri</b> .....	2,345.6	2,309.2	2,322.1	5.2	4.8	4.9	97.2	91.7	96.3
Kansas City .....	781.4	784.0	783.9	(1)	(1)	(1)	31.8	31.7	32.8
St. Louis .....	1,183.5	1,168.4	1,172.9	(1)	(1)	(1)	55.7	49.9	51.3
Springfield .....	121.5	122.6	122.6	(1)	(1)	(1)	4.9	4.6	4.7
<b>Montana</b> .....	294.2	292.8	295.7	6.0	5.8	5.9	9.4	8.1	9.4
<b>Nebraska</b> .....	726.1	752.2	760.3	1.6	1.7	1.9	26.3	27.5	30.0
Lincoln .....	121.2	124.7	124.9	(1)	(1)	(1)	4.3	3.9	4.2
Omaha .....	326.7	339.7	343.2	(1)	(1)	(1)	12.2	12.4	13.4
<b>Nevada</b> .....	611.9	629.8	633.3	14.6	14.2	14.2	47.0	45.1	45.6
Las Vegas .....	368.6	385.7	386.9	.2	.3	.3	34.7	33.2	33.2
Reno .....	142.8	143.3	144.3	1.5	1.5	1.5	7.3	6.9	7.2
<b>New Hampshire</b> .....	505.7	483.3	481.0	.4	.3	.3	22.1	14.9	15.9
Manchester .....	82.0	78.1	78.0	(1)	(1)	(1)	3.5	2.0	2.0
Nashua .....	89.0	83.9	84.3	(1)	(1)	(1)	3.1	1.8	1.8
Portsmouth-Dover-Rochester .....	110.9	107.8	107.5	(1)	(1)	(1)	3.7	2.7	3.2
<b>New Jersey</b> .....	3,647.5	3,571.4	3,577.9	2.4	2.2	2.2	147.8	125.4	129.9
Atlantic City .....	172.0	162.1	165.7	(1)	(1)	(1)	8.9	6.4	6.5
Bergen-Passaic .....	650.6	633.0	631.4	(1)	(1)	(1)	27.3	21.9	22.6
Camden .....	448.3	444.2	442.0	(1)	(1)	(1)	23.3	21.6	21.9
Jersey City .....	245.9	238.5	238.8	(1)	(1)	(1)	6.4	5.5	5.3
Middlesex-Somerset-Hunterdon .....	545.2	541.8	543.9	.6	.5	.6	21.5	20.4	21.0
Monmouth-Ocean .....	330.7	321.7	324.0	(1)	(1)	(1)	16.7	13.2	13.9
Newark .....	936.1	925.8	924.9	.8	.7	.6	34.4	31.2	31.9
Trenton .....	198.7	196.0	195.6	(1)	(1)	(1)	4.5	4.1	4.2
Vineland-Millville-Bridgeton .....	59.1	58.4	59.0	.4	.3	.4	2.2	1.8	2.0

See footnotes at end of table.

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

**B-8. Employees on nonfarm 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. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Maine</b> .....	101.1	95.4	94.5	21.8	21.4	21.5	130.2	122.2	121.8
Lewiston-Auburn .....	9.0	7.9	8.2	1.4	1.3	1.3	10.1	9.8	9.8
Portland .....	16.5	16.2	15.9	6.3	6.7	7.0	37.1	35.4	35.4
<b>Maryland</b> .....	206.8	198.7	199.1	101.5	101.6	101.8	526.9	517.5	522.2
Baltimore MSA .....	130.8	125.1	124.9	56.2	55.5	55.8	268.4	263.0	264.6
Baltimore City .....	44.7	43.5	43.7	28.3	27.9	28.3	87.9	85.2	85.4
Suburban Maryland-D.C. ....	37.0	35.8	35.5	32.2	33.9	33.9	195.6	196.2	196.3
<b>Massachusetts</b> .....	525.2	494.0	490.4	130.6	123.0	122.5	692.3	649.7	651.3
Boston .....	243.9	227.9	226.7	75.3	72.3	72.5	368.9	346.5	346.4
Brockton .....	9.3	8.3	8.2	4.7	4.4	4.3	22.5	21.5	21.4
Fall River .....	13.5	13.3	13.3	2.0	1.9	1.9	13.7	12.9	12.9
Fitchburg-Leominster .....	11.3	10.7	10.8	1.3	1.3	1.3	10.1	9.0	9.0
Lawrence-Haverhill .....	44.6	42.3	42.1	6.4	6.0	6.0	35.5	33.8	33.7
Lowell .....	31.3	29.7	29.5	5.1	5.1	5.0	22.1	20.8	20.9
New Bedford .....	16.0	15.2	15.1	2.8	2.6	2.6	16.0	15.8	16.0
Pittsfield .....	9.6	8.8	8.9	1.3	1.2	1.3	9.6	9.3	9.1
Springfield .....	46.2	44.2	43.9	10.2	9.7	9.8	53.8	51.3	51.2
Worcester .....	40.4	37.8	37.6	9.3	8.5	8.5	47.7	42.7	42.6
<b>Michigan</b> .....	951.9	865.7	872.0	155.3	150.0	151.0	930.9	908.4	913.5
Ann Arbor .....	39.3	36.8	34.3	5.1	5.3	5.4	32.0	31.3	31.4
Battle Creek .....	16.4	15.3	15.2	1.7	1.5	1.5	12.6	12.7	12.7
Benton Harbor .....	22.1	20.7	20.6	2.6	2.6	2.7	14.0	13.1	13.4
Detroit .....	447.4	408.3	411.3	89.1	86.4	87.6	469.8	453.3	453.0
Flint .....	53.1	43.8	46.3	4.2	4.4	4.3	43.2	42.6	44.0
Grand Rapids .....	101.6	98.5	99.4	12.2	11.8	11.8	94.7	94.6	95.9
Jackson .....	13.2	12.0	12.0	3.9	3.8	3.8	13.1	13.1	13.3
Kalamazoo .....	29.3	28.1	28.0	3.3	3.4	3.4	26.1	25.8	26.2
Lansing-East Lansing .....	32.2	30.9	30.9	5.6	5.7	5.8	47.3	46.5	47.1
Muskegon .....	16.6	16.2	16.3	2.2	2.2	2.2	13.9	13.9	14.0
Saginaw-Bay City-Midland .....	43.6	41.3	41.6	6.3	6.3	6.3	39.2	40.2	41.2
<b>Minnesota</b> .....	393.3	383.3	385.5	107.7	106.7	107.6	510.8	499.3	505.0
Duluth .....	8.4	8.6	8.9	5.7	5.8	5.8	24.0	23.7	23.7
Minneapolis-St. Paul .....	260.0	250.5	252.7	76.1	74.8	75.2	326.4	317.7	319.8
Rochester .....	11.9	11.8	11.8	1.9	1.9	1.9	13.1	13.2	13.2
St. Cloud .....	14.4	14.5	14.6	4.0	3.9	3.9	22.5	23.0	23.0
<b>Mississippi</b> .....	245.0	238.4	240.9	45.1	45.2	45.3	197.3	199.0	200.7
Jackson .....	21.8	19.9	20.7	12.9	13.0	12.9	43.7	43.8	44.2
<b>Missouri</b> .....	441.7	416.9	414.9	153.0	152.7	152.7	556.4	544.6	549.0
Kansas City .....	110.0	107.9	105.6	63.0	63.4	63.5	198.4	196.4	195.7
St. Louis .....	225.4	210.5	210.5	78.2	77.7	77.5	279.6	276.2	277.0
Springfield .....	21.6	21.2	21.1	7.5	7.3	7.4	33.8	34.6	34.7
<b>Montana</b> .....	21.2	20.5	20.6	19.9	20.1	20.0	76.5	76.7	77.8
<b>Nebraska</b> .....	96.7	100.6	100.8	45.6	45.5	45.6	185.2	188.3	190.7
Lincoln .....	14.8	15.1	15.0	6.8	6.9	6.9	26.3	26.6	26.4
Omaha .....	36.1	38.6	38.9	23.5	23.5	23.3	81.0	83.0	83.6
<b>Nevada</b> .....	26.0	26.8	26.6	32.1	33.4	33.7	121.4	127.4	128.2
Las Vegas .....	10.7	10.6	10.5	19.2	20.2	20.5	74.2	77.9	78.3
Reno .....	8.7	8.8	8.8	9.8	9.8	9.9	32.4	33.5	33.4
<b>New Hampshire</b> .....	107.0	99.9	99.4	17.6	16.8	16.8	126.5	117.8	117.3
Manchester .....	11.5	10.8	10.7	4.7	4.6	4.6	21.3	20.3	20.2
Nashua .....	30.9	29.2	29.0	2.4	2.1	2.1	21.6	19.5	19.4
Portsmouth-Dover-Rochester .....	20.8	19.8	19.9	3.0	2.8	2.8	27.3	26.4	26.3
<b>New Jersey</b> .....	601.7	565.2	562.2	236.7	234.4	235.1	859.5	843.0	840.4
Atlantic City .....	7.8	7.0	6.9	7.1	6.9	7.1	34.2	32.4	33.4
Bergen-Passaic .....	136.3	128.2	127.6	30.9	29.6	29.2	183.2	180.2	178.2
Camden .....	67.8	63.9	63.5	19.1	19.2	19.2	119.1	118.7	116.9
Jersey City .....	38.7	35.1	35.4	31.0	28.6	28.4	62.3	61.0	61.1
Middlesex-Somerset-Hunterdon .....	108.4	103.9	103.1	42.4	42.1	42.7	132.6	129.3	129.4
Monmouth-Ocean .....	26.1	23.8	23.5	14.8	15.4	15.6	86.4	86.8	86.3
Newark .....	156.8	151.4	150.8	77.2	76.4	76.9	185.5	182.4	181.1
Trenton .....	27.3	25.2	25.0	7.2	7.1	7.3	31.0	30.8	30.3
Vineland-Millville-Bridgeton .....	15.2	14.7	15.1	2.4	2.4	2.4	11.1	10.7	10.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Maine</b> .....	25.0	24.8	24.7	125.7	125.0	125.1	99.2	96.5	95.3
Lewiston-Auburn .....	2.3	2.1	2.1	10.6	10.6	10.7	4.5	4.4	4.3
Portland .....	12.0	12.4	12.3	34.0	31.2	31.2	16.9	16.3	15.7
<b>Maryland</b> .....	131.3	130.7	130.3	619.6	623.2	625.3	425.4	427.3	425.7
Baltimore MSA .....	76.3	75.3	75.3	329.1	333.0	333.6	222.4	219.0	220.2
Baltimore City .....	45.4	44.3	44.4	155.5	155.3	155.4	93.7	91.8	91.9
Suburban Maryland-D.C. ....	46.1	45.7	45.6	234.0	234.8	234.0	159.4	165.6	163.7
<b>Massachusetts</b> .....	214.8	208.6	208.4	922.9	901.6	905.9	404.1	390.7	388.3
Boston .....	147.9	139.3	139.7	594.9	580.5	581.6	203.8	196.7	194.6
Brockton .....	3.3	3.1	3.1	16.3	16.5	16.6	12.6	11.6	11.7
Fall River .....	3.5	3.2	3.2	11.0	11.1	11.1	7.1	7.0	6.9
Fitchburg-Leominster .....	1.4	1.4	1.4	8.8	8.4	8.3	5.0	4.5	4.5
Lawrence-Haverhill .....	6.0	5.7	5.7	36.0	35.1	35.2	21.7	20.4	20.3
Lowell .....	3.5	3.2	3.2	21.1	20.5	20.7	13.7	13.5	13.5
New Bedford .....	2.4	2.4	2.4	14.5	14.8	14.9	9.9	9.4	9.4
Pittsfield .....	1.9	1.8	1.8	12.3	12.7	12.7	5.0	4.9	4.9
Springfield .....	15.5	14.8	14.6	62.7	63.7	63.5	38.8	38.1	37.7
Worcester .....	14.1	13.9	13.9	52.2	49.5	49.9	24.8	23.8	23.5
<b>Michigan</b> .....	169.1	191.3	191.6	932.0	935.2	945.0	643.7	650.4	640.7
Ann Arbor .....	4.8	4.6	4.6	39.2	40.7	40.7	56.7	59.5	58.6
Battle Creek .....	3.3	3.5	3.5	12.6	13.3	13.2	11.7	12.1	11.8
Benton Harbor .....	2.6	2.6	2.6	15.1	15.4	16.0	9.1	9.1	9.1
Detroit .....	111.7	114.0	113.6	515.3	515.1	518.6	238.4	240.4	237.0
Flint .....	6.4	6.6	6.7	37.1	38.6	39.1	23.5	24.4	24.1
Grand Rapids .....	15.9	16.2	16.3	81.1	82.5	83.5	34.5	36.0	35.0
Jackson .....	1.7	1.7	1.7	10.5	10.7	10.9	10.2	10.2	10.0
Kalamazoo .....	5.3	5.6	5.7	28.5	29.0	29.1	19.2	19.5	19.1
Lansing-East Lansing .....	12.7	13.1	13.2	44.0	43.8	44.5	69.7	72.1	71.2
Muskegon .....	1.5	1.5	1.5	12.5	12.6	12.8	9.7	9.7	9.6
Saginaw-Bay City-Midland .....	5.9	6.5	6.5	38.5	38.5	38.7	21.5	21.4	21.4
<b>Minnesota</b> .....	123.3	124.3	125.2	546.5	558.6	562.8	347.1	348.0	348.4
Duluth .....	3.2	3.3	3.3	24.2	25.2	25.0	22.7	22.7	22.7
Minneapolis-St. Paul .....	96.1	96.8	97.5	365.5	375.1	377.8	189.0	192.2	191.9
Rochester .....	1.8	1.8	1.8	27.2	28.8	28.8	7.0	7.1	7.0
St. Cloud .....	2.4	2.5	2.5	17.9	18.5	18.5	13.8	13.2	13.7
<b>Mississippi</b> .....	38.7	38.9	38.9	160.5	164.1	165.7	207.0	208.4	208.5
Jackson .....	14.3	14.2	14.2	43.3	44.2	44.7	42.4	42.7	42.5
<b>Missouri</b> .....	137.8	138.5	138.4	575.1	579.8	585.4	379.2	380.2	380.5
Kansas City .....	59.4	59.4	59.4	196.4	199.4	200.6	122.5	125.8	126.3
St. Louis .....	76.6	75.9	75.8	320.1	329.6	331.9	147.9	148.6	148.9
Springfield .....	5.3	5.3	5.3	32.6	33.5	33.5	15.8	16.1	15.9
<b>Montana</b> .....	13.3	13.4	13.4	74.1	76.1	76.3	73.8	72.1	72.3
<b>Nebraska</b> .....	48.1	49.5	49.5	176.7	189.2	191.4	145.9	149.9	150.4
Lincoln .....	8.4	8.6	8.6	28.1	29.4	29.7	32.5	34.2	34.1
Omaha .....	28.8	29.3	29.1	97.3	103.7	105.3	47.8	49.2	49.6
<b>Nevada</b> .....	27.9	28.7	28.7	267.0	271.3	273.3	75.9	82.9	83.0
Las Vegas .....	18.1	18.9	18.9	172.7	181.4	182.0	38.8	43.2	43.2
Reno .....	7.1	7.3	7.3	57.5	55.8	56.5	18.5	19.7	19.7
<b>New Hampshire</b> .....	31.8	30.5	30.6	124.9	126.3	125.1	75.4	76.8	75.6
Manchester .....	8.4	8.3	8.3	23.8	23.2	23.3	8.8	8.9	8.9
Nashua .....	3.5	3.4	3.4	19.6	20.2	20.8	7.9	7.7	7.8
Portsmouth-Dover-Rochester .....	7.2	7.0	7.0	22.2	22.0	22.1	26.7	27.1	26.2
<b>New Jersey</b> .....	240.5	234.1	234.3	981.0	988.3	996.7	577.9	578.8	577.1
Atlantic City .....	6.7	8.4	6.4	79.9	75.4	77.9	27.4	27.6	27.5
Bergen-Passaic .....	38.1	36.0	35.9	163.7	166.3	167.1	71.1	70.8	70.8
Camden .....	24.6	24.3	24.3	117.1	117.8	117.9	77.3	78.7	78.3
Jersey City .....	16.4	16.1	16.3	49.9	50.8	51.1	41.2	41.4	41.2
Middlesex-Somerset-Hunterdon .....	42.1	41.9	42.2	120.6	124.9	126.0	77.0	78.8	78.9
Monmouth-Ocean .....	19.6	18.7	18.6	99.1	98.0	100.3	68.0	65.8	65.8
Newark .....	76.1	73.4 <sup>P</sup>	73.9	266.4	272.6	272.0	138.9	137.7	137.7
Trenton .....	11.1	11.2	11.2	60.6	61.1	61.3	57.0	56.5	56.3
Vineland-Millville-Bridgeton .....	4.3	4.4	4.4	10.8	11.2	11.3	12.7	12.9	12.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1990	Mar. 1991	Apr. 1991P	Apr. 1990	Mar. 1991	Apr. 1991P	Apr. 1990	Mar. 1991	Apr. 1991P
<b>New Mexico</b> .....	574.7	577.4	579.0	15.4	15.8	15.8	28.7	28.2	29.3
Albuquerque .....	246.5	245.0	246.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.0	11.8	12.5
Las Cruces .....	44.5	44.7	45.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.1	2.1
Santa Fe .....	59.7	60.6	60.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.1	2.8	2.9
<b>New York</b> .....	8,193.5	8,024.1	8,050.5	5.4	4.6	5.1	308.3	261.1	271.8
Albany-Schenectady-Troy .....	432.1	430.5	431.5	.4	.2	.3	18.7	15.8	16.8
Binghamton .....	118.4	115.8	115.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	3.8	4.0
Buffalo .....	459.4	456.7	458.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.0	15.9	17.2
Elmira .....	41.7	39.7	39.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.3	1.3
Glens Falls .....	46.2	44.6	45.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	1.8	2.0
Nassau-Suffolk .....	1,122.6	1,096.1	1,101.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	54.1	47.4	49.4
New York PMSA .....	4,101.6	4,016.7	4,018.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	142.3	121.7	122.2
New York City .....	3,576.3	3,503.9	3,502.6	.3	.2	.2	113.4	98.6	98.1
Niagara Falls .....	84.7	83.0	84.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.5	3.2	3.6
Orange County .....	106.7	103.2	103.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	3.5	3.9
Poughkeepsie .....	121.4	118.8	119.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.1	4.8	5.3
Rochester .....	486.8	483.2	487.4	.7	.6	.7	17.8	16.6	17.5
Rockland County .....	101.4	99.4	99.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	3.6	3.6
Syracuse .....	314.9	308.8	312.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.4	11.7	12.3
Utica-Rome .....	127.4	123.8	124.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	2.9	3.4
Westchester County .....	405.3	394.5	397.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.7	18.0	19.0
<b>North Carolina</b> .....	3,122.6	3,092.1	3,106.3	5.3	5.1	5.1	163.4	155.5	157.3
Asheville .....	87.3	86.9	87.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	4.4	4.5
Charlotte-Gastonia-Rock Hill .....	626.7	627.4	629.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	36.5	36.7	36.8
Greensboro-Winston-Salem-High Point .....	498.5	491.1	491.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	25.1	23.0	23.2
Raleigh-Durham .....	432.2	431.8	433.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.1	21.4	21.7
<b>North Dakota</b> .....	264.1	265.9	268.3	4.1	4.3	4.4	8.7	7.5	8.6
Bismarck .....	39.9	40.2	40.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	1.5	1.8
Fargo-Moorhead .....	77.2	78.2	79.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.2	2.7	3.2
Grand Forks .....	31.6	31.9	32.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.0	.8	.9
<b>Ohio</b> .....	4,859.9	4,844.7	4,890.2	17.4	16.7	16.8	188.4	176.8	190.2
Akron .....	284.5	285.0	288.0	.6	.6	.6	10.2	8.9	10.0
Canton .....	164.2	163.2	165.1	.8	.8	.8	7.7	6.5	7.4
Cincinnati .....	737.7	744.4	751.2	.4	.3	.4	33.2	30.9	32.7
Cleveland .....	940.9	936.6	944.6	.8	.8	.8	32.6	30.6	33.0
Columbus .....	716.5	722.6	728.2	.9	.9	.9	28.2	26.5	28.4
Dayton-Springfield .....	450.5	446.0	449.8	.4	.4	.4	15.8	14.0	15.2
Toledo .....	291.2	280.4	285.9	.2	.2	.2	11.9	10.0	11.1
Youngstown-Warren .....	197.7	194.5	196.3	.4	.3	.3	7.7	6.6	7.3
<b>Oklahoma</b> .....	1,186.5	1,194.7	1,195.0	43.2	43.9	43.6	36.8	34.6	34.4
Enid .....	21.5	21.4	21.7	.9	.9	.8	.6	.6	.6
Lawton .....	34.8	34.9	35.0	.2	.3	.3	.9	1.0	1.0
Oklahoma City .....	431.1	428.6	428.6	10.4	9.6	9.5	11.6	11.3	11.3
Tulsa .....	315.9	318.5	318.8	11.9	12.0	12.0	11.3	11.4	11.1
<b>Oregon</b> .....	1,238.8	1,245.0	1,250.0	1.5	1.6	1.6	51.1	49.4	50.6
Eugene-Springfield .....	118.4	116.3	116.1	.2	.2	.2	3.8	3.5	3.6
Medford .....	53.7	52.3	53.2	.1	.1	.1	1.9	1.7	1.8
Portland .....	631.7	639.3	641.4	.5	.5	.5	29.6	27.2	27.6
Salem .....	106.2	107.7	108.2	.1	.1	.1	4.4	4.1	4.2
<b>Pennsylvania</b> .....	5,165.9	5,122.5	5,140.4	27.5	25.9	26.3	220.2	203.5	213.4
Allentown-Bethlehem .....	286.7	287.1	288.4	.6	.5	.5	12.9	11.5	12.3
Altoona .....	53.6	53.4	53.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.1	2.3
Beaver County .....	50.4	49.8	50.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.1	2.2
Erie .....	119.3	119.5	119.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	3.2	3.6
Harrisburg-Lebanon-Carlisle .....	313.1	310.9	311.9	.4	.5	.4	14.0	13.0	13.3
Johnstown .....	82.1	82.2	82.3	2.8	2.5	2.5	2.9	2.8	3.0
Lancaster .....	194.2	190.5	191.7	.4	.4	.4	12.3	11.3	11.8
Philadelphia PMSA .....	2,216.2	2,197.2	2,207.2	1.1	1.0	1.0	99.2	90.5	95.8
Philadelphia City .....	750.3	735.5	737.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.9	13.4	13.8
Pittsburgh .....	913.5	909.7	912.9	4.6	3.9	4.1	41.8	39.2	41.1

See footnotes at end of table.

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

**B-8. Employees on nonfarm 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. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>New Mexico</b> .....	42.5	42.8	42.5	29.1	29.0	28.7	134.7	135.5	136.4
Albuquerque .....	21.2	20.6	20.6	12.7	12.8	12.8	60.5	59.7	60.1
Las Cruces .....	3.5	3.5	3.5	1.6	1.6	1.6	9.0	9.0	9.2
Santa Fe .....	1.9	1.9	1.9	1.0	1.0	1.0	11.6	11.6	11.9
<b>New York</b> .....	1,134.9	1,079.4	1,080.3	425.4	425.8	427.4	1,666.4	1,615.3	1,617.8
Albany-Schenectady-Troy .....	46.0	45.9	46.1	17.0	16.8	17.0	90.3	90.6	90.1
Binghamton .....	34.1	32.8	32.6	4.3	4.1	4.2	24.8	24.8	24.8
Buffalo .....	75.1	71.9	72.1	22.8	23.1	23.4	113.6	113.6	113.7
Elmira .....	9.0	8.2	8.1	1.5	1.4	1.4	10.3	9.8	9.9
Glens Falls .....	10.3	9.7	9.7	1.7	1.5	1.5	10.3	9.9	10.1
Nassau-Suffolk .....	152.4	139.7	139.2	50.1	50.7	50.5	285.1	276.3	275.8
New York PMSA .....	411.8	391.8	392.1	251.5	248.1	249.0	722.0	696.5	695.5
New York City .....	337.7	323.2	321.7	224.9	221.0	221.8	606.1	582.9	582.3
Niagara Falls .....	23.6	21.6	21.9	4.0	3.8	4.0	20.3	20.6	20.7
Orange County .....	14.1	12.9	12.9	6.4	6.3	6.6	28.3	27.1	27.1
Poughkeepsie .....	29.8	29.6	29.6	3.8	3.7	3.6	22.0	21.2	21.1
Rochester .....	132.3	131.1	130.8	15.2	15.3	15.3	103.2	101.0	101.6
Rockland County .....	15.3	14.6	14.6	5.2	5.1	5.2	22.1	22.1	22.0
Syracuse .....	52.3	48.0	49.4	19.4	19.3	19.0	74.9	76.1	76.7
Utica-Rome .....	24.0	21.9	21.7	4.4	4.4	4.4	27.2	27.0	27.1
Westchester County .....	56.8	51.6	53.7	20.8	21.3	21.4	89.5	87.1	86.8
<b>North Carolina</b> .....	865.2	829.6	829.2	150.6	151.7	153.2	711.1	701.3	706.0
Asheville .....	20.2	20.1	19.9	4.2	4.1	4.0	21.4	21.2	21.5
Charlotte-Gastonia-Rock Hill .....	154.0	146.7	147.7	51.0	51.3	51.2	153.1	151.2	151.5
Greensboro-Winston-Salem-High Point .....	150.8	144.4	144.2	26.3	25.6	25.3	113.3	112.2	112.1
Raleigh-Durham .....	63.2	63.1	63.1	21.2	21.5	21.5	89.5	89.2	89.3
<b>North Dakota</b> .....	16.7	17.8	17.6	17.0	17.0	17.0	69.3	70.1	71.2
Bismarck .....	2.2	2.2	2.3	2.8	2.8	2.9	10.2	10.3	10.3
Fargo-Moorhead .....	5.5	5.6	5.5	4.7	4.7	4.8	22.1	22.5	22.9
Grand Forks .....	1.6	1.7	1.8	1.7	1.7	1.7	9.1	9.1	9.3
<b>Ohio</b> .....	1,111.7	1,069.9	1,075.2	217.1	217.6	219.3	1,157.7	1,152.1	1,163.8
Akron .....	66.3	66.3	66.3	13.7	13.7	13.8	68.5	67.5	68.0
Canton .....	43.8	43.2	43.1	5.4	5.5	5.7	40.8	40.4	40.7
Cincinnati .....	146.9	146.0	144.8	40.6	41.6	41.9	187.6	186.9	189.1
Cleveland .....	206.8	201.7	202.6	42.6	41.7	42.5	223.8	223.8	225.4
Columbus .....	104.5	103.6	103.5	30.7	30.3	30.5	180.3	180.7	181.7
Dayton-Springfield .....	102.7	96.9	97.4	18.1	18.4	18.5	101.1	100.9	102.2
Toledo .....	59.7	50.1	53.1	14.5	14.4	14.5	71.2	69.8	70.6
Youngstown-Warren .....	49.2	47.0	47.6	7.3	7.0	7.0	52.9	52.2	52.9
<b>Oklahoma</b> .....	166.8	167.2	166.7	67.1	67.5	67.0	275.3	273.4	276.1
Enid .....	1.6	1.5	1.5	2.1	2.0	2.1	6.1	6.0	6.2
Lawton .....	3.4	3.5	3.5	1.7	1.7	1.7	8.7	8.8	8.9
Oklahoma City .....	49.3	48.4	47.8	21.2	21.0	20.9	102.6	100.7	102.0
Tulsa .....	55.9	56.5	56.3	25.2	25.9	25.7	73.5	73.1	73.8
<b>Oregon</b> .....	215.2	204.8	204.2	63.3	63.6	63.8	306.6	310.5	312.7
Eugene-Springfield .....	20.6	18.4	18.3	4.4	4.4	4.3	30.3	29.3	29.4
Medford .....	8.9	7.2	7.4	2.9	2.7	2.9	15.4	15.8	16.1
Portland .....	102.5	102.6	102.2	37.1	37.6	37.8	161.2	163.3	164.5
Salem .....	14.0	14.0	13.9	2.9	2.9	2.9	23.4	23.6	23.8
<b>Pennsylvania</b> .....	1,016.9	974.7	972.2	264.7	267.5	268.2	1,167.0	1,165.4	1,166.2
Allentown-Bethlehem .....	74.1	73.8	73.8	14.7	14.5	14.6	62.6	63.7	63.5
Altoona .....	10.8	10.6	10.6	4.7	4.8	4.7	14.1	14.0	14.2
Beaver County .....	9.3	9.0	8.9	5.3	4.9	4.9	11.4	11.6	11.7
Erie .....	36.2	35.7	35.4	4.3	4.4	4.3	25.6	25.3	25.4
Harrisburg-Lebanon-Carlisle .....	49.5	46.9	46.6	19.7	20.7	20.5	69.4	67.7	67.9
Johnstown .....	14.2	14.3	14.6	5.6	5.4	5.4	17.8	17.7	18.1
Lancaster .....	57.7	55.4	55.3	7.7	7.6	7.7	48.5	46.2	46.7
Philadelphia PMSA .....	350.1	333.6	332.8	99.7	98.8	100.0	504.7	499.0	498.6
Philadelphia City .....	82.6	77.8	77.5	40.0	39.3	39.8	136.9	129.4	128.3
Pittsburgh .....	118.3	115.4	115.5	53.4	54.4	54.2	222.6	220.0	220.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>New Mexico</b> .....	26.1	25.8	25.8	145.0	147.9	148.3	153.2	152.4	152.2
Albuquerque .....	14.1	13.9	13.8	74.5	75.8	76.4	50.5	50.4	50.3
Las Cruces .....	1.6	1.6	1.6	7.8	8.1	8.2	18.8	18.8	18.8
Santa Fe .....	2.3	2.3	2.3	15.8	16.3	16.5	24.0	24.7	24.4
<b>New York</b> .....	778.5	755.9	755.7	2,382.2	2,408.0	2,421.0	1,492.3	1,474.0	1,471.4
Albany-Schenectady-Troy .....	24.8	25.2	25.3	117.2	120.7	120.8	117.7	115.2	115.0
Binghamton .....	4.1	4.0	4.0	24.7	24.8	24.9	21.9	21.6	21.4
Buffalo .....	27.5	27.2	27.7	126.1	128.0	128.0	77.1	77.1	75.9
Elmira .....	1.4	1.5	1.4	10.5	10.3	10.4	7.5	7.2	7.0
Glens Falls .....	1.6	1.6	1.6	10.4	10.6	10.6	9.7	9.6	9.5
Nassau-Suffolk .....	80.9	81.0	81.2	309.7	313.4	317.5	190.2	187.5	187.9
New York PMSA .....	554.6	534.5	532.1	1,322.9	1,335.3	1,337.6	696.6	688.9	690.1
New York City .....	518.6	498.8	496.4	1,163.1	1,174.1	1,175.2	612.1	605.1	607.0
Niagara Falls .....	1.9	2.0	2.0	18.3	18.6	18.8	13.1	13.2	12.9
Orange County .....	4.9	5.0	5.0	24.0	24.5	24.5	24.6	24.0	23.9
Poughkeepsie .....	4.8	4.7	4.7	29.3	30.1	30.7	25.6	24.8	24.5
Rochester .....	23.2	22.6	22.8	124.3	126.9	129.0	70.1	69.1	69.8
Rockland County .....	5.3	5.3	5.3	27.2	27.4	27.6	22.0	21.3	21.1
Syracuse .....	20.3	20.7	21.0	79.2	79.4	80.7	54.4	53.7	53.9
Utica-Rome .....	7.4	7.5	7.6	28.6	28.9	29.2	32.1	31.3	30.9
Westchester County .....	29.8	29.6	29.6	127.4	128.6	129.5	58.4	58.3	57.8
<b>North Carolina</b> .....	133.3	133.8	134.2	591.9	602.9	608.8	501.8	512.2	512.5
Asheville .....	3.0	2.8	2.8	20.9	21.1	21.7	13.1	13.2	13.2
Charlotte-Gastonia-Rock Hill .....	38.0	37.7	37.8	122.3	128.2	128.9	71.8	75.6	75.5
Greensboro-Winston-Salem-High Point .....	24.3	23.7	23.9	101.8	105.2	105.6	56.9	57.0	56.9
Raleigh-Durham .....	24.1	23.9	24.0	115.3	116.4	117.5	96.8	96.3	96.5
<b>North Dakota</b> .....	12.4	12.5	12.5	68.3	70.1	70.3	67.6	66.6	66.7
Bismarck .....	1.5	1.5	1.5	12.4	12.8	12.9	8.9	9.1	9.2
Fargo-Moorhead .....	4.6	4.7	4.7	21.8	22.5	22.7	15.3	15.5	15.4
Grand Forks .....	1.1	1.1	1.1	7.1	7.4	7.5	10.0	10.1	9.9
<b>Ohio</b> .....	252.6	254.6	254.8	1,178.9	1,208.7	1,227.1	736.1	748.3	742.9
Akron .....	10.8	10.6	10.7	67.8	69.6	71.4	46.6	47.8	47.3
Canton .....	6.8	6.6	6.6	39.4	40.4	41.3	19.6	19.7	19.5
Cincinnati .....	43.4	44.0	44.2	190.0	196.2	200.2	95.6	98.4	97.8
Cleveland .....	57.4	58.0	57.8	256.4	259.2	262.1	120.6	120.9	120.4
Columbus .....	60.3	60.8	60.8	180.3	186.8	189.8	131.4	133.0	132.6
Dayton-Springfield .....	17.2	17.5	17.7	117.3	119.7	120.5	77.9	78.2	77.8
Toledo .....	12.1	11.9	12.0	75.7	77.9	78.7	45.8	46.0	45.6
Youngstown-Warren .....	8.3	8.3	8.3	47.4	47.7	48.4	24.5	25.4	24.5
<b>Oklahoma</b> .....	59.4	57.9	57.6	271.5	279.9	279.8	266.4	270.3	269.8
Enid .....	.9	.9	.9	5.2	5.4	5.5	4.1	4.1	4.1
Lawton .....	1.8	1.6	1.6	6.1	6.3	6.2	12.0	11.7	11.8
Oklahoma City .....	24.6	24.6	24.3	107.1	108.6	108.3	104.3	104.4	104.5
Tulsa .....	17.4	17.5	17.6	82.0	83.3	83.5	38.7	38.8	38.8
<b>Oregon</b> .....	78.3	80.8	81.4	295.6	302.8	304.3	227.2	231.5	231.4
Eugene-Springfield .....	5.6	5.8	5.8	28.6	29.1	29.1	24.9	25.6	25.4
Medford .....	2.6	2.5	2.5	12.4	12.7	12.8	9.5	9.6	9.6
Portland .....	50.8	52.0	52.2	164.7	168.8	169.5	85.3	87.3	87.1
Salem .....	5.8	6.0	6.0	23.3	24.1	24.4	32.3	32.9	32.9
<b>Pennsylvania</b> .....	298.4	298.6	299.6	1,443.7	1,467.9	1,476.9	727.5	719.0	717.6
Allentown-Bethlehem .....	14.6	14.7	14.8	75.0	76.2	77.0	32.2	32.2	31.9
Altoona .....	2.1	2.1	2.1	11.9	12.3	12.5	7.6	7.5	7.5
Beaver County .....	1.6	1.6	1.6	12.3	12.6	12.8	8.2	8.0	8.0
Erie .....	5.4	5.5	5.6	30.0	30.9	31.0	14.2	14.5	14.5
Harrisburg-Lebanon-Carlisle .....	20.8	21.6	21.9	70.1	70.9	72.2	69.2	69.6	69.1
Johnstown .....	4.6	4.6	4.6	21.0	21.9	21.1	13.2	13.0	13.0
Lancaster .....	7.6	7.9	7.9	42.4	43.7	44.1	17.6	18.0	17.8
Philadelphia PMSA .....	161.8	160.2	160.0	689.9	708.2	712.4	309.7	305.9	306.6
Philadelphia City .....	65.3	63.3	63.3	266.3	272.1	273.7	144.3	140.2	140.8
Pittsburgh .....	55.0	55.5	55.5	309.4	312.6	313.4	108.4	108.7	108.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	154.2	151.3	152.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.2	6.8	7.0
Scranton—Wilkes—Barre .....	308.2	304.9	305.5	0.6	0.6	0.6	13.2	11.1	12.4
Sharon .....	43.9	43.8	43.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.3	1.3
State College .....	62.2	61.4	62.2	.4	.4	.4	2.6	2.0	2.2
Williamsport .....	51.2	50.6	50.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	2.6	2.7
York .....	180.4	180.4	180.4	.5	.5	.5	9.9	9.3	9.6
<b>Rhode Island</b> .....	450.6	436.2	436.6	.1	.1	.2	18.3	13.9	14.4
Pawtucket—Woonsocket—Attleboro .....	128.0	121.3	120.6	.2	.1	.2	4.5	3.0	3.1
Providence .....	320.3	311.0	312.0	.1	.1	.1	13.6	10.6	11.3
<b>South Carolina</b> .....	1,547.1	1,546.7	1,559.0	2.1	2.0	2.0	100.8	96.5	96.7
Charleston .....	207.8	213.1	214.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.1	16.0	15.8
Columbia .....	247.1	251.6	252.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.4	13.8	14.0
Greenville—Spartanburg .....	335.9	337.1	338.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	25.5	24.9	25.2
<b>South Dakota</b> .....	284.7	289.6	293.5	2.5	2.5	2.5	10.7	10.4	11.2
Rapid City .....	37.4	37.6	38.3	.2	.2	.2	2.1	2.3	2.5
Sioux Falls .....	74.3	76.0	77.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.5	3.3	3.5
<b>Tennessee</b> .....	2,191.9	2,168.7	2,175.1	6.3	5.9	6.1	91.0	82.8	84.4
Chattanooga .....	202.5	199.8	200.5	.6	.6	.6	7.1	7.0	7.0
Johnson City—Kingsport—Bristol .....	172.1	170.5	171.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.8	6.3	6.4
Knoxville .....	267.2	260.5	262.9	1.4	1.4	1.4	13.3	11.8	12.0
Memphis .....	475.2	478.3	480.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.9	19.4	19.8
Nashville .....	500.6	501.8	502.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.2	23.4	23.9
<b>Texas</b> .....	7,018.3	7,098.2	7,114.5	176.9	182.6	183.0	326.3	338.0	338.6
Abilene .....	48.8	48.5	48.5	1.4	1.5	1.5	1.5	1.4	1.5
Amarillo .....	79.0	77.5	77.7	1.2	1.1	1.0	3.0	2.8	3.0
Austin .....	377.4	383.4	383.9	.7	.7	.7	11.3	12.3	12.3
Beaumont—Port Arthur .....	141.2	147.9	147.9	1.7	1.8	1.9	11.3	13.3	13.4
Brazoria .....	65.7	67.3	67.4	1.9	2.0	2.0	8.6	8.6	8.6
Brownsville—Harlingen .....	75.0	77.3	77.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.4	2.5
Bryan—College Station .....	55.3	55.8	56.1	.6	.5	.5	1.9	1.8	1.7
Corpus Christi .....	135.5	137.9	137.6	4.0	4.1	4.1	12.8	11.3	11.2
Dallas .....	1,369.0	1,373.3	1,372.6	17.8	17.9	17.9	45.4	46.7	46.8
El Paso .....	206.7	209.8	210.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.8	8.1	8.4
Ft. Worth—Arlington .....	585.2	586.2	585.0	4.3	4.7	4.6	21.9	21.8	22.4
Galveston—Texas City .....	75.9	76.3	76.4	.8	.7	.7	4.6	4.1	4.1
Houston .....	1,581.2	1,623.3	1,625.8	66.9	72.7	72.2	108.9	108.5	108.4
Killeen—Temple .....	74.2	72.7	73.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.3	2.3
Laredo .....	44.2	45.0	45.0	1.8	1.8	1.8	1.3	1.3	1.3
Longview—Marshall .....	69.6	68.9	69.3	3.5	3.4	3.4	3.7	3.5	3.5
Lubbock .....	98.0	98.6	99.1	.3	.2	.2	3.1	3.2	3.4
McAllen—Edinburg—Mission .....	102.9	103.4	103.5	.8	.9	.9	4.6	4.6	4.5
Midland .....	44.4	44.9	45.0	9.0	9.0	8.8	1.3	1.4	1.5
Odessa .....	43.3	44.2	44.2	5.1	5.1	5.3	2.1	2.2	2.2
San Angelo .....	36.4	36.6	36.6	.5	.5	.5	1.1	1.2	1.2
San Antonio .....	523.0	517.9	519.8	1.8	1.8	1.9	21.0	22.0	22.0
Sherman—Denison .....	38.2	37.9	37.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.5	1.5
Texarkana .....	47.3	45.9	46.1	.1	.1	.1	1.4	1.3	1.4
Tyler .....	62.0	62.4	62.3	1.6	1.7	1.7	1.8	1.7	1.6
Victoria .....	28.1	28.8	29.1	1.4	1.6	1.5	1.8	1.7	1.8
Waco .....	82.1	82.7	82.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.2	3.0	3.0
Wichita Falls .....	49.7	50.1	50.4	1.4	1.4	1.4	1.7	1.8	1.8

See footnotes at end of table.

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

**B-8. Employees on nonfarm 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. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	46.5	43.5	43.7	6.6	6.8	6.7	33.8	33.6	33.7
Scranton-Wilkes-Barre .....	70.5	67.7	67.3	16.7	16.9	16.9	72.7	72.5	72.2
Sharon .....	11.1	11.4	11.1	2.2	2.0	2.1	10.9	10.7	10.9
State College .....	8.8	8.6	8.5	1.7	1.7	1.8	11.5	12.3	12.3
Williamsport .....	15.4	15.1	15.2	1.7	1.7	1.8	11.6	11.3	11.4
York .....	57.6	55.9	55.5	8.0	7.9	8.0	45.2	46.5	46.4
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	99.5	93.7	92.1	15.7	15.0	15.1	96.6	92.7	93.5
Providence .....	45.8	43.6	43.0	3.8	3.4	3.4	32.5	30.6	30.5
	63.0	59.6	59.1	11.8	11.4	11.6	64.9	61.6	61.8
<b>South Carolina</b>									
Charleston .....	384.7	365.8	366.8	66.9	65.9	66.3	346.2	341.7	348.3
Columbia .....	21.4	20.8	21.0	11.1	10.8	11.0	51.6	52.8	53.3
Greenville-Spartanburg .....	28.0	27.8	27.6	11.3	11.4	11.4	54.6	55.4	55.5
	99.5	95.1	95.3	14.5	14.6	14.7	77.5	78.8	79.1
<b>South Dakota</b>									
Rapid City .....	33.6	33.7	34.1	13.0	13.8	13.8	74.3	76.4	77.8
Sioux Falls .....	4.0	3.7	3.8	1.9	1.9	1.9	10.5	10.7	10.9
	9.0	9.2	9.4	4.8	5.0	5.0	20.6	21.1	21.8
<b>Tennessee</b>									
Chattanooga .....	523.0	509.7	506.0	115.2	116.4	116.5	512.3	506.9	510.4
Johnson City-Kingsport-Bristol .....	47.2	44.7	44.4	9.2	9.1	9.3	47.8	47.8	48.1
Knoxville .....	54.3	51.4	51.3	6.0	6.3	6.3	39.8	38.9	39.2
Memphis .....	49.5	47.8	46.9	11.3	11.3	11.3	70.7	68.3	68.6
Nashville .....	62.7	60.7	61.0	46.7	47.9	48.0	124.2	124.4	125.1
	89.7	87.0	86.3	27.0	27.0	26.9	122.1	122.9	123.0
<b>Texas</b>									
Abilene .....	986.0	977.1	974.1	419.6	426.3	428.2	1,693.5	1,697.5	1,709.3
Amarillo .....	5.0	4.5	4.5	2.8	2.7	2.7	12.5	12.6	12.4
Austin .....	8.8	8.9	8.8	5.5	5.6	5.6	22.8	21.8	22.0
Beaumont-Port Arthur .....	47.6	48.8	48.6	11.6	12.0	11.8	76.8	75.4	76.0
Brazoria .....	25.0	25.9	25.8	9.6	9.6	9.6	32.3	33.2	33.2
Brownsville-Harlingen .....	16.5	16.7	16.8	2.8	3.0	3.0	12.3	12.8	12.7
Bryan-College Station .....	11.3	11.6	11.8	3.1	3.4	3.4	20.3	20.4	20.8
Corpus Christi .....	3.6	3.3	3.2	1.3	1.3	1.3	11.2	11.0	11.3
Dallas .....	12.0	12.3	12.3	6.6	6.5	6.5	31.7	32.3	32.3
El Paso .....	221.3	215.9	214.6	82.4	82.5	82.9	348.2	351.9	351.8
Ft. Worth-Arlington .....	40.7	41.2	41.0	10.8	10.7	10.8	51.4	52.7	52.7
Galveston-Texas City .....	119.4	109.7	108.1	54.1	56.2	56.5	149.4	149.6	149.5
Houston .....	8.9	8.8	8.7	5.1	5.1	5.2	15.1	15.3	15.4
Killeen-Temple .....	172.4	176.6	176.6	107.6	112.5	113.3	369.3	369.1	370.6
Laredo .....	8.6	8.8	8.8	2.7	2.4	2.4	16.7	15.5	16.0
Longview-Marshall .....	1.7	1.5	1.6	6.1	6.3	6.2	13.9	13.9	13.9
Lubbock .....	16.5	16.1	16.1	3.4	3.5	3.6	16.8	16.9	17.0
McAllen-Edinburg-Mission .....	7.0	7.1	7.1	5.6	5.6	5.5	27.9	28.6	29.0
Midland .....	13.4	13.3	12.9	2.9	3.2	3.2	31.6	32.1	32.3
Odessa .....	2.2	2.3	2.3	2.4	2.3	2.3	10.4	10.6	10.6
San Angelo .....	4.3	4.3	4.2	2.0	2.0	2.0	12.3	12.7	12.7
San Antonio .....	5.1	5.1	5.0	2.6	2.7	2.6	8.9	8.6	8.6
Sherman-Denison .....	46.2	43.1	43.1	21.7	21.9	22.0	128.8	128.5	128.9
Texarkana .....	11.2	10.6	10.5	1.5	1.6	1.6	7.8	7.9	7.8
Tyler .....	7.1	6.9	6.5	2.2	2.4	2.4	11.0	10.8	10.8
Victoria .....	11.0	10.9	10.6	2.7	2.9	2.9	16.0	16.0	16.0
Waco .....	3.0	3.1	3.1	1.4	1.4	1.4	7.5	7.4	7.7
Wichita Falls .....	15.8	16.1	16.0	3.4	3.4	3.5	18.9	19.3	19.4
	8.4	8.0	8.2	2.7	2.7	2.7	11.3	11.5	11.6

See footnotes at end of table.



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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	8.2	8.3	8.3	33.6	33.7	34.1	18.3	18.6	18.5
Scranton—Wilkes-Barre .....	13.6	13.5	13.5	77.5	79.8	79.8	43.4	42.8	42.8
Sharon .....	1.3	1.3	1.4	11.5	11.5	11.6	5.5	5.6	5.5
State College .....	1.9	1.9	1.9	11.0	10.9	11.1	24.3	23.6	24.0
Williamsport .....	2.3	2.3	2.3	10.7	10.5	10.5	6.9	7.1	6.9
York .....	5.2	5.3	5.2	34.6	35.7	35.9	19.4	19.3	19.3
<b>Rhode Island</b>									
Pawtucket—Woonsocket—Attleboro .....	3.7	3.6	3.5	26.0	25.3	25.2	11.5	11.7	11.7
Providence .....	22.3	22.2	22.1	97.6	98.0	99.0	47.0	47.5	47.0
<b>South Carolina</b>									
Charleston .....	7.8	7.8	8.0	45.2	48.3	49.1	54.6	56.6	56.5
Columbia .....	17.7	17.7	17.9	52.1	54.9	55.4	69.0	70.6	70.3
Greenville—Spartanburg .....	11.9	11.9	12.0	64.3	67.0	67.7	42.7	44.8	44.9
<b>South Dakota</b>									
Rapid City .....	1.5	1.4	1.5	9.8	9.9	10.0	7.4	7.5	7.5
Sioux Falls .....	8.1	8.2	8.2	20.3	21.5	21.5	8.0	7.7	8.0
<b>Tennessee</b>									
Chattanooga .....	12.9	13.4	13.5	42.7	42.2	42.4	35.0	35.0	35.2
Johnson City—Kingsport—Bristol .....	5.2	5.1	5.1	34.7	36.1	36.4	25.3	26.4	26.4
Knoxville .....	10.1	10.3	10.3	58.1	57.4	59.8	52.8	52.2	52.6
Memphis .....	25.0	25.2	25.2	118.9	121.7	121.8	77.8	79.0	79.1
Nashville .....	31.0	30.4	30.5	136.0	140.8	141.1	70.6	70.3	70.6
<b>Texas</b>									
Abiene .....	1.9	1.9	2.0	14.4	14.7	14.7	9.3	9.2	9.2
Amarillo .....	4.3	4.3	4.3	17.8	17.8	17.8	15.6	15.2	15.2
Austin .....	23.8	23.4	23.4	95.2	98.6	98.9	110.6	112.2	112.2
Beaumont—Port Arthur .....	5.3	5.4	5.4	34.2	36.9	36.8	21.8	21.8	21.8
Brazoria .....	1.8	1.8	1.8	9.7	9.9	10.0	12.1	12.5	12.5
Brownsville—Harlingen .....	3.5	3.8	3.7	16.9	17.7	17.7	17.6	18.0	17.7
Bryan—College Station .....	1.8	1.8	1.8	10.4	10.9	11.1	24.5	25.2	25.2
Corpus Christi .....	6.3	6.3	6.3	31.9	33.7	33.5	30.2	31.4	31.4
Dallas .....	126.7	123.3	123.5	365.8	371.2	371.1	161.4	163.9	164.0
El Paso .....	8.4	8.3	8.3	43.3	43.8	44.3	44.3	45.0	45.2
Ft. Worth—Arlington .....	27.5	27.1	27.1	133.1	138.4	137.9	75.5	78.7	78.9
Galveston—Texas City .....	5.0	5.0	5.0	14.5	14.6	14.6	22.1	22.7	22.7
Houston .....	101.6	103.4	103.2	445.2	466.3	466.9	209.3	214.2	214.6
Killeen—Temple .....	3.3	3.3	3.4	17.7	17.5	17.7	22.8	22.9	23.0
Laredo .....	1.8	1.8	1.8	7.8	8.2	8.2	9.8	10.2	10.2
Longview—Marshall .....	2.6	2.6	2.6	14.0	14.0	14.1	9.1	8.9	9.0
Lubbock .....	5.5	5.5	5.7	25.5	25.0	24.8	23.1	23.4	23.4
McAllen—Edinburg—Mission .....	4.1	4.0	4.0	18.0	18.4	18.7	27.5	26.9	27.0
Midland .....	2.4	2.4	2.4	9.5	9.8	9.9	7.2	7.1	7.2
Odessa .....	1.5	1.3	1.3	7.9	8.4	8.3	8.1	8.2	8.2
San Angelo .....	1.6	1.6	1.6	9.0	9.1	9.2	7.6	7.8	7.9
San Antonio .....	40.1	38.0	38.0	141.3	140.4	141.4	122.1	122.2	122.5
Sherman—Denison .....	2.0	2.1	2.1	9.7	9.7	9.7	4.6	4.5	4.6
Texarkana .....	1.8	1.7	1.7	10.8	11.2	11.2	12.9	11.5	12.0
Tyler .....	3.5	3.5	3.5	15.6	15.9	16.1	9.8	9.8	9.9
Victoria .....	1.6	1.6	1.6	6.1	6.5	6.5	5.3	5.5	5.5
Waco .....	5.2	5.2	5.1	22.3	22.3	22.2	13.3	13.4	13.4
Wichita Falls .....	2.1	2.1	2.1	12.4	12.7	12.7	9.7	9.9	9.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Utah</b> .....	715.6	737.5	744.3	8.3	8.7	8.7	25.8	25.8	27.9
Provo-Orem .....	92.9	98.0	98.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.9	3.2	3.3
Salt Lake City-Ogden .....	488.3	499.9	505.0	2.7	3.0	3.0	18.0	18.5	19.7
<b>Vermont</b> .....	255.2	251.4	247.0	.5	.5	.5	13.4	12.2	12.4
Barre-Montpelier .....	33.6	33.9	33.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.9	2.0
Burlington .....	79.8	78.1	78.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.2	3.5	3.6
<b>Virginia</b> .....	2,889.6	2,837.9	2,858.7	15.6	14.7	14.8	184.7	156.7	161.5
Bristol .....	34.3	34.6	34.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.0	1.1	1.2
Charlottesville .....	73.3	71.3	73.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	3.6	3.5
Danville .....	42.2	40.1	39.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.0	2.0
Lynchburg .....	77.7	76.2	76.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	3.5	3.7
Norfolk-Virginia Beach-Newport News .....	582.9	572.2	577.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	35.2	31.4	31.8
Northern Virginia .....	773.8	752.4	754.7	.6	.5	.5	55.6	40.5	41.0
Richmond-Petersburg .....	474.1	474.8	477.0	.8	.7	.7	30.9	28.5	29.2
Roanoke .....	126.7	125.6	126.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.8	6.9	7.2
<b>Washington</b> .....	2,127.1	2,167.9	2,182.8	3.7	3.5	3.6	113.7	113.8	117.9
Seattle .....	1,095.8	1,114.2	1,121.4	.6	.7	.7	59.5	57.8	60.6
<b>West Virginia</b> .....	625.6	623.6	628.9	35.1	34.5	34.4	26.0	25.4	27.7
Charleston .....	110.7	112.5	113.1	2.0	2.3	2.2	4.6	4.6	5.0
Huntington-Ashland .....	111.3	112.4	112.5	1.5	1.6	1.6	5.0	5.2	5.3
Parkersburg-Marietta .....	61.5	61.5	62.2	.5	.5	.5	2.8	2.6	2.7
Wheeling .....	59.9	59.5	60.1	2.3	2.0	2.0	1.7	1.6	1.8
<b>Wisconsin</b> .....	2,263.1	2,253.2	2,275.0	2.2	1.6	2.1	77.2	69.5	74.9
Appleton-Oshkosh-Neenah .....	159.1	160.7	161.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.2	7.6	7.9
Eau Claire .....	59.0	58.0	58.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	1.7	2.1
Green Bay .....	104.2	106.2	106.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	4.9	5.3
Janesville-Beloit .....	60.4	57.0	58.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.4	1.5
Kenosha .....	40.1	41.5	42.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.6	1.9
La Crosse .....	53.6	53.0	53.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.2	1.3
Madison .....	218.6	223.2	224.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.1	7.1	7.7
Milwaukee .....	751.5	750.4	752.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	25.2	23.6	24.3
Racine .....	76.4	76.3	76.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	1.9	2.1
Sheboygan .....	51.3	51.2	51.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.1	1.2
Wausau .....	51.9	52.5	53.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	2.2	2.3
<b>Wyoming</b> .....	194.3	193.8	196.9	17.6	17.5	17.9	10.4	9.4	10.7
Casper .....	28.4	28.6	29.1	2.3	2.4	2.5	1.8	1.7	1.9
<b>Puerto Rico</b> .....	839.6	832.1	832.5	1.0	.9	.9	44.3	46.4	47.3
Caguas .....	53.8	53.6	54.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.4	1.3
Mayaguez .....	57.6	57.1	58.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.1	2.4
Ponce .....	56.1	54.8	54.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.6	4.0	4.0
San Juan .....	518.6	514.7	514.7	.6	.5	.5	31.7	32.9	33.5
<b>Virgin Islands</b> .....	43.0	43.3	43.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	4.2	4.2

See footnotes at end of table.

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

**B-8. Employees on nonfarm 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. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Utah</b> .....	105.2	108.1	107.9	41.9	42.3	42.5	168.1	172.0	173.5
Provo-Orem .....	13.9	14.1	14.1	2.6	2.4	2.3	20.8	22.5	22.8
Salt Lake City-Ogden .....	68.3	69.8	69.9	32.3	33.0	33.2	118.6	118.3	119.4
<b>Vermont</b> .....	46.4	43.6	43.9	10.9	10.6	10.6	58.3	57.5	56.8
Barre-Montpelier .....	4.5	4.2	4.4	.9	.9	.9	7.4	6.9	6.9
Burlington .....	15.8	15.0	15.0	3.6	3.2	3.3	19.0	19.0	18.8
<b>Virginia</b> .....	426.5	406.6	409.4	147.1	147.7	148.5	647.1	636.1	638.7
Bristol .....	10.8	10.6	10.8	1.5	1.5	1.5	8.8	8.7	8.7
Charlottesville .....	9.0	8.3	8.8	2.6	2.6	2.6	15.0	14.7	14.7
Danville .....	16.3	14.1	13.8	1.1	1.1	1.2	8.6	8.7	8.8
Lynchburg .....	23.8	23.0	23.2	3.0	2.9	2.9	16.6	16.1	16.0
Norfolk-Virginia Beach-Newport News .....	65.6	64.3	65.2	27.3	27.5	28.0	142.3	135.6	137.1
Northern Virginia .....	34.9	33.6	33.2	50.7	49.8	50.3	172.5	168.0	169.0
Richmond-Petersburg .....	64.6	63.8	63.8	23.6	23.8	23.7	107.3	106.5	106.2
Roanoke .....	20.0	18.5	19.1	8.2	8.2	8.2	34.0	34.1	34.0
<b>Washington</b> .....	367.6	360.1	363.8	110.9	114.2	114.5	510.8	514.9	517.3
Seattle .....	221.9	219.6	219.4	67.7	68.0	68.2	257.8	261.5	263.0
<b>West Virginia</b> .....	88.2	83.4	83.4	37.6	37.3	37.1	143.8	142.2	143.4
Charleston .....	10.9	10.7	10.7	9.1	9.1	9.1	28.6	29.2	29.6
Huntington-Ashland .....	20.0	19.8	19.3	8.5	8.2	8.2	27.8	28.0	28.2
Parkersburg-Marietta .....	14.4	13.8	14.0	2.5	2.4	2.4	14.6	14.9	15.2
Wheeling .....	7.4	7.1	7.2	3.3	3.3	3.2	15.9	15.9	16.1
<b>Wisconsin</b> .....	554.4	540.6	542.3	104.8	106.4	107.4	528.1	523.7	529.4
Appleton-Oshkosh-Neenah .....	53.4	52.0	52.2	6.2	6.4	6.5	33.6	34.0	34.4
Eau Claire .....	11.2	10.9	10.8	3.1	3.1	3.0	15.7	15.1	15.2
Green Bay .....	22.6	22.6	22.6	7.5	7.5	7.6	27.1	27.1	27.2
Janesville-Beloit .....	19.1	16.0	16.2	2.5	2.2	2.2	14.2	14.2	14.6
Kenosha .....	9.9	9.3	9.9	1.4	1.4	1.3	10.7	11.3	11.6
La Crosse .....	10.6	10.7	10.6	2.4	2.4	2.4	14.1	14.4	14.4
Madison .....	25.1	26.2	26.1	7.9	8.7	8.7	48.5	49.6	49.8
Milwaukee .....	175.2	171.3	170.0	36.6	37.3	37.3	170.2	169.1	170.2
Racine .....	26.7	25.7	25.0	2.3	2.3	2.2	17.1	17.7	17.7
Sheboygan .....	21.5	21.7	21.9	1.6	1.7	1.7	9.6	9.6	9.7
Wausau .....	14.9	14.5	14.7	3.1	3.2	3.2	12.5	12.3	12.5
<b>Wyoming</b> .....	9.1	9.3	9.3	14.3	14.2	14.3	42.6	43.1	43.9
Casper .....	1.6	1.7	1.7	1.7	1.7	1.7	7.7	7.7	7.9
<b>Puerto Rico</b> .....	157.7	151.7	151.0	21.3	20.1	19.6	154.0	151.9	152.0
Caguas .....	15.5	15.3	15.5	.5	.6	.6	11.2	10.8	10.9
Mayaguez .....	19.7	17.7	18.3	.5	.6	.5	8.3	8.7	8.6
Ponce .....	11.0	10.1	10.1	1.6	1.4	1.3	8.7	8.4	8.6
San Juan .....	65.6	64.3	64.0	16.9	16.8	16.4	105.2	104.5	104.0
<b>Virgin Islands</b> .....	2.4	2.5	2.5	2.2	2.3	2.3	9.4	9.5	9.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Utah</b> .....	33.9	34.9	34.8	178.4	190.2	192.0	154.0	155.5	157.0
Provo-Orem .....	2.2	2.3	2.3	35.6	38.3	38.7	14.9	15.2	15.3
Salt Lake City-Ogden .....	27.7	28.7	29.1	120.1	127.1	128.3	100.6	101.5	102.4
<b>Vermont</b> .....	12.7	11.4	11.4	66.2	69.7	65.8	46.8	45.9	45.6
Barre-Montpelier .....	2.9	2.6	2.6	8.2	8.9	8.4	7.9	8.5	8.2
Burlington .....	4.2	3.9	3.8	20.0	20.5	20.7	13.0	13.0	13.2
<b>Virginia</b> .....	153.9	150.1	150.2	729.8	737.5	746.2	584.9	588.5	589.4
Bristol .....	1.2	1.1	1.1	5.5	5.6	5.6	5.5	6.0	6.0
Charlottesville .....	3.8	3.5	3.5	14.1	14.7	15.1	24.4	23.9	25.1
Danville .....	1.4	1.4	1.4	7.0	7.1	7.1	5.7	5.7	5.7
Lynchburg .....	3.4	3.4	3.4	17.3	17.3	17.2	10.0	10.0	10.0
Norfolk-Virginia Beach-Newport News .....	26.6	25.8	25.7	148.3	149.8	152.5	137.6	137.8	137.5
Northern Virginia .....	50.6	49.5	49.4	260.0	260.7	261.8	148.9	149.8	149.5
Richmond-Petersburg .....	39.8	39.9	39.9	109.0	112.9	113.9	98.1	98.7	99.6
Roanoke .....	8.6	8.6	8.6	32.2	33.3	33.4	15.9	16.0	15.9
<b>Washington</b> .....	115.5	117.9	118.1	504.2	528.2	530.2	400.7	415.3	417.4
Seattle .....	73.1	75.0	74.9	268.9	279.4	281.0	146.3	152.2	153.6
<b>West Virginia</b> .....	24.5	24.6	24.5	144.0	150.2	151.6	126.4	126.0	126.8
Charleston .....	6.5	6.6	6.5	28.8	30.2	30.3	20.2	19.8	19.7
Huntington-Ashland .....	3.9	3.9	4.0	24.9	26.2	26.3	19.7	19.5	19.6
Parkersburg-Marietta .....	2.2	2.3	2.3	14.7	15.2	15.3	9.8	9.8	9.8
Wheeling .....	3.0	3.1	3.1	17.1	17.3	17.3	9.2	9.2	9.4
<b>Wisconsin</b> .....	119.0	120.9	121.7	524.6	537.0	541.0	352.7	353.5	356.1
Appleton-Oshkosh-Neenah .....	7.6	8.0	8.1	32.5	34.1	34.3	18.6	18.6	18.6
Eau Claire .....	1.8	1.8	1.8	13.4	13.4	13.8	11.9	11.9	12.0
Green Bay .....	5.5	6.4	6.4	25.1	25.2	25.4	11.8	12.4	12.3
Janesville-Beloit .....	1.7	1.6	1.7	13.9	14.2	14.5	7.5	7.4	7.4
Kenosha .....	1.3	1.3	1.4	8.8	9.9	9.9	6.5	6.6	6.7
La Crosse .....	1.7	1.6	1.6	14.9	15.0	15.0	8.4	7.8	7.9
Madison .....	18.9	19.5	19.6	48.6	50.1	50.1	61.6	61.9	63.1
Milwaukee .....	50.4	50.5	50.7	206.7	210.4	211.6	87.1	88.3	88.6
Racine .....	2.2	2.3	2.3	17.2	17.7	18.1	8.5	8.6	8.9
Sheboygan .....	2.3	2.2	2.2	9.1	9.3	9.3	5.4	5.6	5.6
Wausau .....	3.6	4.0	3.9	9.4	9.9	9.9	6.6	6.6	6.5
<b>Wyoming</b> .....	7.1	7.0	7.0	36.2	36.3	36.8	57.0	57.0	57.0
Casper .....	1.4	1.4	1.4	6.7	6.6	6.8	5.2	5.4	5.2
<b>Puerto Rico</b> .....	36.8	36.4	36.4	134.1	135.1	135.7	290.4	289.6	289.6
Caguas .....	1.3	1.3	1.3	7.7	7.8	7.8	16.2	16.4	16.6
Mayaguez .....	1.4	1.5	1.5	6.9	7.8	8.0	18.6	18.7	18.7
Ponce .....	1.8	1.8	1.7	11.1	11.7	11.6	17.3	17.5	17.5
San Juan .....	29.0	29.0	29.0	95.4	94.6	95.6	174.2	172.0	171.7
<b>Virgin Islands</b> .....	2.1	2.1	2.1	9.1	9.2	9.0	13.7	13.5	13.5

<sup>1</sup> Combined with construction.  
<sup>2</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 1990 benchmarks.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**C-1. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm 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	12.46	525.81	37.4	12.48	466.75
1987 .....	34.8	8.98	312.50	42.4	12.54	531.70	37.8	12.71	480.44
1988 .....	34.7	9.28	322.02	42.3	12.80	541.44	37.9	13.08	495.73
1989 .....	34.6	9.66	334.24	43.0	13.26	570.18	37.9	13.54	513.17
1990 .....	34.5	10.02	345.69	44.1	13.69	603.73	38.2	13.78	526.40
<b>Monthly data, not seasonally adjusted</b>									
<b>1990:</b>									
May .....	34.4	\$9.96	\$342.62	43.2	\$13.60	\$587.52	38.3	\$13.73	\$525.86
June .....	34.8	9.97	346.96	44.4	13.70	608.28	39.1	13.68	534.89
July .....	34.9	9.99	348.65	43.6	13.74	599.06	38.4	13.76	528.38
August .....	34.8	9.98	347.30	44.0	13.66	601.04	39.0	13.79	537.81
September .....	34.8	10.15	353.22	45.1	13.86	625.09	39.1	13.97	546.23
October .....	34.3	10.14	347.80	44.6	13.73	612.36	38.0	13.97	530.86
November .....	34.3	10.16	348.49	45.0	13.82	621.90	38.2	13.87	529.83
December .....	34.7	10.19	353.59	45.5	13.88	631.54	38.3	13.92	533.14
<b>1991:</b>									
January .....	33.7	10.22	344.41	44.4	14.20	630.48	36.2	14.02	507.52
February .....	33.9	10.23	346.80	44.4	14.10	626.04	37.0	13.93	515.41
March .....	34.0	10.24	348.16	44.0	14.09	619.96	37.2	13.93	518.20
April <sup>2</sup> .....	34.1	10.29	350.89	43.8	14.09	617.14	37.8	13.99	528.82
May <sup>2</sup> .....	34.2	10.30	352.26	43.9	13.99	614.16	38.3	13.97	535.05

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
	Annual averages									
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.36
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.60	106.27
1966 .....	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.08
1967 .....	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.87	115.85
1968 .....	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.04	121.89
1969 .....	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.74
1970 .....	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.43	136.91
1971 .....	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.4	3.64	143.68
1972 .....	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.42
1973 .....	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.2	4.07	159.74
1974 .....	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.38	170.11
1975 .....	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.6	4.72	182.42
1976 .....	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.02	194.15
1977 .....	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	208.76
1978 .....	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	227.87
1979 .....	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.65
1980 .....	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.4	6.95	267.13
1981 .....	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.55	290.75
1982 .....	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.08	309.23
1983 .....	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.54	328.25
1984 .....	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.88	341.78
1985 .....	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.15	351.08
1986 .....	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.34	357.57
1987 .....	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.59	365.30
1988 .....	41.1	10.19	9.73	418.81	38.8	12.26	475.69	38.1	9.98	380.24
1989 .....	41.0	10.48	10.02	429.68	38.9	12.60	490.14	38.0	10.39	394.82
1990 .....	40.8	10.83	10.37	441.86	38.9	12.96	504.14	38.1	10.79	411.10
	Monthly data, not seasonally adjusted									
<b>1990:</b>										
May .....	40.9	\$10.80	\$10.35	\$441.72	39.0	\$12.83	\$500.37	38.0	\$10.72	\$407.36
June .....	41.1	10.84	10.36	445.52	39.4	12.87	507.08	38.2	10.75	410.65
July .....	40.5	10.87	10.40	440.24	39.5	13.00	513.50	38.3	10.81	414.02
August .....	40.8	10.81	10.33	441.05	39.3	12.97	509.72	38.1	10.76	409.96
September .....	41.3	10.93	10.41	451.41	39.2	13.08	512.74	38.3	10.93	418.62
October .....	40.9	10.94	10.46	447.45	38.7	13.08	506.20	38.1	10.86	413.77
November .....	40.8	10.96	10.48	447.17	38.8	13.09	507.89	38.0	10.93	415.34
December .....	41.3	11.05	10.57	456.37	39.1	13.14	513.77	38.4	11.04	423.94
<b>1991:</b>										
January .....	40.2	11.05	10.62	444.21	38.2	13.18	503.48	37.7	11.04	416.21
February .....	39.9	11.02	10.61	439.70	38.3	13.17	504.41	37.7	11.08	417.72
March .....	40.1	11.06	10.64	443.51	38.3	13.15	503.65	37.9	11.06	419.17
April <sup>p</sup> .....	40.1	11.10	10.68	445.11	38.5	13.20	508.20	37.9	11.12	421.45
May <sup>p</sup> .....	40.3	11.15	10.72	445.35	38.7	13.17	509.68	38.0	11.13	422.94

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 nonfarm payrolls by major industry, 1964 to date—Continued**

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964 .....	37.0	\$1.75	\$64.81	37.3	\$2.30	\$85.77	36.1	\$1.94	\$70.05
1965 .....	36.6	1.82	66.65	37.2	2.39	88.85	35.9	2.05	73.60
1966 .....	35.9	1.91	68.50	37.3	2.47	92.21	35.5	2.17	76.92
1967 .....	35.3	2.01	70.86	37.1	2.58	95.70	35.1	2.29	80.30
1968 .....	34.7	2.16	74.93	37.0	2.75	101.70	34.7	2.42	84.08
1969 .....	34.2	2.30	78.67	37.1	2.93	108.56	34.7	2.61	90.62
1970 .....	33.8	2.44	82.31	36.7	3.07	112.79	34.4	2.81	96.52
1971 .....	33.7	2.60	87.51	36.6	3.22	118.02	33.9	3.04	103.04
1972 .....	33.4	2.75	92.03	36.6	3.36	122.94	33.9	3.27	110.62
1973 .....	33.1	2.91	96.45	36.6	3.53	129.34	33.8	3.47	117.49
1974 .....	32.7	3.14	102.55	36.5	3.77	137.68	33.6	3.75	126.22
1975 .....	32.4	3.36	108.63	36.5	4.06	147.89	33.5	4.02	134.73
1976 .....	32.1	3.57	114.56	36.4	4.27	155.51	33.3	4.31	143.53
1977 .....	31.6	3.85	121.54	36.4	4.54	165.42	33.0	4.65	153.59
1978 .....	31.0	4.20	130.14	36.4	4.89	178.03	32.8	4.99	163.89
1979 .....	30.6	4.53	138.83	36.2	5.27	190.92	32.7	5.36	175.36
1980 .....	30.2	4.88	147.24	36.2	5.79	209.68	32.6	5.85	190.98
1981 .....	30.1	5.25	157.99	36.3	6.31	228.73	32.6	6.41	209.16
1982 .....	29.9	5.48	163.83	36.2	6.78	245.68	32.6	6.92	225.87
1983 .....	29.8	5.74	171.13	36.2	7.29	263.68	32.7	7.31	239.04
1984 .....	29.8	5.85	174.47	36.5	7.63	278.04	32.6	7.59	247.25
1985 .....	29.4	5.94	174.81	36.4	7.94	289.20	32.5	7.90	256.49
1986 .....	29.2	6.03	175.80	36.4	8.36	304.49	32.5	8.18	265.93
1987 .....	29.2	6.12	178.80	36.3	8.73	316.37	32.5	8.49	276.03
1988 .....	29.1	6.31	183.62	35.9	9.06	325.25	32.6	8.88	289.49
1989 .....	28.9	6.53	188.72	35.8	9.53	341.17	32.6	9.38	305.79
1990 .....	28.8	6.76	194.69	35.8	9.97	356.93	32.6	9.83	320.46
Monthly data, not seasonally adjusted									
<b>1990:</b>									
May .....	28.7	\$6.73	\$193.15	35.6	\$9.89	\$352.08	32.3	\$9.75	\$314.93
June .....	29.2	6.74	196.81	35.8	9.89	354.06	32.6	9.73	317.20
July .....	29.7	6.73	199.88	36.2	9.99	361.64	32.9	9.76	321.10
August .....	29.4	6.73	197.86	35.7	9.94	354.86	32.8	9.75	319.80
September .....	28.9	6.83	197.39	36.1	10.10	364.61	32.7	9.95	325.37
October .....	28.4	6.83	193.97	35.5	10.08	357.84	32.4	9.96	322.70
November .....	28.4	6.86	194.82	35.6	10.12	360.27	32.4	10.02	324.65
December .....	29.2	6.84	199.73	36.2	10.24	370.69	32.7	10.11	330.60
<b>1991:</b>									
January .....	27.6	6.90	190.44	35.7	10.24	365.57	32.1	10.12	324.85
February .....	28.0	6.89	192.92	35.8	10.30	368.74	32.3	10.14	327.52
March .....	28.1	6.91	194.17	35.6	10.33	367.75	32.3	10.16	328.17
April <sup>p</sup> .....	28.3	6.98	197.53	35.6	10.37	369.17	32.3	10.19	329.14
May <sup>p</sup> .....	28.6	6.98	199.63	35.6	10.38	369.53	32.3	10.18	328.81

<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 1990 benchmarks. Thus, data beginning in April 1989 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<sup>1</sup> on private nonfarm payrolls by detailed industry**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Total private</b> .....		34.3	34.4	34.0	34.1	34.2	-	-	-	-	-
<b>Mining</b> .....		43.1	43.2	44.0	43.8	43.9	-	-	-	-	-
Metal mining .....	10	43.4	42.2	42.6	42.5	-	-	-	-	-	-
Iron ores .....	101	42.7	42.4	44.4	45.0	-	-	-	-	-	-
Copper ores .....	102	47.6	44.5	45.7	45.6	-	-	-	-	-	-
Coal mining .....	12	43.3	43.7	44.6	43.8	-	-	-	-	-	-
Bituminous coal and lignite mining .....	122	43.3	43.7	44.6	43.7	-	-	-	-	-	-
Oil and gas extraction .....	13	42.5	42.3	44.4	44.0	-	-	-	-	-	-
Crude petroleum and natural gas .....	131	42.6	41.3	41.3	41.6	-	-	-	-	-	-
Oil and gas field services .....	138	42.4	42.9	46.1	45.4	-	-	-	-	-	-
Nonmetallic minerals, except fuels .....	14	44.8	45.8	42.9	44.1	-	-	-	-	-	-
Crushed and broken stone .....	142	45.3	46.8	42.7	44.0	-	-	-	-	-	-
<b>Construction</b> .....		37.3	38.3	37.2	37.8	38.3	-	-	-	-	-
General building contractors .....	15	37.0	37.8	37.0	37.3	-	-	-	-	-	-
Residential building construction .....	152	36.6	37.1	35.6	36.0	-	-	-	-	-	-
Operative builders .....	153	37.4	37.6	36.1	36.6	-	-	-	-	-	-
Nonresidential building construction .....	154	37.4	38.4	38.4	38.6	-	-	-	-	-	-
Heavy construction, except building .....	16	40.7	41.7	39.7	41.0	-	-	-	-	-	-
Highway and street construction .....	161	41.2	42.2	39.0	40.0	-	-	-	-	-	-
Heavy construction, except highway .....	162	40.4	41.5	40.0	41.4	-	-	-	-	-	-
Special trade contractors .....	17	36.5	37.5	36.6	37.1	-	-	-	-	-	-
Plumbing, heating, and air conditioning .....	171	37.4	38.7	37.7	38.4	-	-	-	-	-	-
Painting and paper hanging .....	172	34.6	36.0	35.4	36.0	-	-	-	-	-	-
Electrical work .....	173	38.1	39.1	38.9	38.8	-	-	-	-	-	-
Masonry, stonework, and plastering .....	174	34.5	35.2	34.4	35.2	-	-	-	-	-	-
Carpentry and floor work .....	175	34.9	35.5	34.9	34.5	-	-	-	-	-	-
Roofing, siding, and sheet metal work .....	176	33.2	34.3	31.7	32.5	-	-	-	-	-	-
<b>Manufacturing</b> .....		39.8	40.9	40.1	40.1	40.3	2.9	3.6	3.1	3.1	3.2
<b>Durable goods</b> .....		40.3	41.5	40.5	40.6	40.7	2.8	3.8	3.1	3.1	3.2
Lumber and wood products .....	24	40.1	40.6	38.9	39.5	39.6	3.3	3.7	2.8	3.0	-
Logging .....	241	41.8	41.9	39.8	39.3	-	5.1	5.5	4.4	4.0	-
Sawmills and planing mills .....	242	41.2	41.7	40.1	40.5	-	4.2	4.5	3.7	3.8	-
Sawmills and planing mills, general .....	2421	41.8	42.1	40.7	41.0	-	4.6	4.9	4.1	4.2	-
Hardwood dimension and flooring mills .....	2426	38.6	40.0	37.5	38.7	-	2.5	3.0	2.1	2.4	-
Millwork, plywood, and structural members .....	243	39.8	39.9	38.1	39.4	-	2.8	3.1	2.1	2.7	-
Millwork .....	2431	38.8	39.3	36.6	38.8	-	1.8	2.3	1.3	2.1	-
Wood kitchen cabinets .....	2434	39.4	39.0	38.2	38.7	-	2.7	3.0	1.9	2.7	-
Hardwood veneer and plywood .....	2435	40.6	41.3	40.3	40.3	-	3.4	3.9	3.3	3.4	-
Softwood veneer and plywood .....	2436	43.9	42.8	41.4	42.1	-	5.2	4.8	3.7	4.0	-
Wood containers .....	244	38.6	39.3	39.5	38.9	-	3.1	3.4	2.7	2.5	-
Wood buildings and mobile homes .....	245	37.8	38.9	35.4	36.9	-	1.4	2.0	1.1	1.6	-
Mobile homes .....	2451	37.9	38.7	35.2	37.0	-	1.5	1.8	.9	1.6	-
Miscellaneous wood products .....	249	39.4	40.4	39.1	39.2	-	2.8	3.1	2.4	2.4	-
Furniture and fixtures .....	25	38.0	38.8	37.9	38.4	38.5	1.8	2.3	1.8	1.9	-
Household furniture .....	251	37.7	38.2	37.5	38.1	-	1.7	2.1	1.7	1.9	-
Wood household furniture .....	2511	38.3	39.2	37.8	38.5	-	2.0	2.4	1.9	2.2	-
Upholstered household furniture .....	2512	36.4	36.0	35.8	36.8	-	1.2	1.2	1.1	1.3	-
Metal household furniture .....	2514	39.0	40.7	41.4	40.8	-	2.1	3.4	3.2	3.2	-
Mattresses and bedsprings .....	2515	39.0	39.2	38.8	38.9	-	2.5	2.7	2.2	2.0	-
Office furniture .....	252	37.5	39.4	35.6	36.2	-	1.8	2.3	.9	1.2	-
Public building and related furniture .....	253	38.8	40.0	40.0	41.3	-	2.0	3.3	2.2	3.2	-
Partitions and fixtures .....	254	39.3	40.0	40.3	40.3	-	2.0	2.7	2.3	2.2	-
Miscellaneous furniture and fixtures .....	259	37.6	39.3	38.4	38.2	-	1.6	2.5	1.9	1.8	-

See footnotes at end of table.



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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Total private</b> .....		\$9.96	\$9.96	\$10.24	\$10.29	\$10.30	\$341.63	\$342.62	\$348.16	\$350.89	\$352.26
<b>Mining</b> .....		13.70	13.60	14.09	14.09	13.99	590.47	587.52	619.96	617.14	614.16
Metal mining .....	10	13.88	13.92	14.93	14.91	-	602.39	587.42	636.02	633.68	-
Iron ores .....	101	14.11	14.03	15.99	15.84	-	602.50	594.87	709.96	712.80	-
Copper ores .....	102	12.03	12.06	13.25	13.50	-	572.63	536.67	605.53	615.60	-
Coal mining .....	12	16.62	16.54	16.92	16.85	-	719.65	722.80	754.63	738.03	-
Bituminous coal and lignite mining .....	122	16.75	16.69	17.09	17.02	-	725.28	729.35	762.21	743.77	-
Oil and gas extraction .....	13	13.04	12.89	13.39	13.48	-	554.20	545.25	594.52	593.12	-
Crude petroleum and natural gas .....	131	16.34	16.09	16.66	16.74	-	696.08	664.52	688.06	696.38	-
Oil and gas field services .....	138	11.00	11.02	11.68	11.74	-	466.40	472.76	538.45	533.00	-
Nonmetallic minerals, except fuels .....	14	11.49	11.46	11.60	11.72	-	514.75	524.87	497.64	516.85	-
Crushed and broken stone .....	142	10.86	11.05	11.00	11.12	-	491.96	517.14	469.70	489.28	-
<b>Construction</b> .....		13.63	13.73	13.93	13.99	13.97	508.40	525.86	518.20	528.82	535.05
General building contractors .....	15	12.91	12.99	13.26	13.29	-	477.67	491.02	490.62	495.72	-
Residential building construction .....	152	12.20	12.21	12.31	12.24	-	446.52	452.99	438.24	440.64	-
Operative builders .....	153	12.65	12.65	13.76	13.72	-	473.11	475.64	496.74	502.15	-
Nonresidential building construction .....	154	13.59	13.74	14.08	14.19	-	508.27	527.62	540.67	547.73	-
Heavy construction, except building .....	16	13.13	13.38	13.35	13.66	-	534.39	557.95	530.00	560.06	-
Highway and street construction .....	161	12.67	13.17	12.47	13.01	-	522.00	555.77	486.33	520.40	-
Heavy construction, except highway .....	162	13.32	13.49	13.66	13.92	-	538.13	559.84	546.40	576.29	-
Special trade contractors .....	17	14.07	14.13	14.35	14.36	-	513.56	529.88	525.21	532.76	-
Plumbing, heating, and air conditioning .....	171	14.30	14.38	14.77	14.83	-	534.82	556.51	556.83	569.47	-
Painting and paper hanging .....	172	12.91	13.02	12.99	12.98	-	446.69	468.72	459.85	467.28	-
Electrical work .....	173	14.87	15.02	15.38	15.37	-	566.55	587.28	598.28	596.36	-
Masonry, stonework, and plastering .....	174	14.41	14.45	14.23	14.24	-	497.15	508.64	489.51	501.25	-
Carpentry and floor work .....	175	14.08	14.16	14.23	14.28	-	491.39	502.68	496.63	492.66	-
Roofing, siding, and sheet metal work .....	176	12.17	12.13	12.18	12.33	-	404.04	416.06	386.11	400.73	-
<b>Manufacturing</b> .....		10.74	10.80	11.06	11.10	11.15	427.45	441.72	443.51	445.11	449.35
<b>Durable goods</b> .....		11.22	11.33	11.60	11.64	11.72	452.17	470.20	469.80	472.58	477.00
Lumber and wood products .....	24	9.08	9.10	9.10	9.18	9.24	364.11	369.46	353.99	362.61	365.90
Logging .....	241	11.34	11.31	10.90	10.95	-	474.01	473.89	433.82	430.34	-
Sawmills and planing mills .....	242	9.26	9.25	9.30	9.32	-	381.51	385.73	372.93	377.46	-
Sawmills and planing mills, general .....	2421	9.63	9.62	9.62	9.65	-	402.53	405.00	391.53	395.65	-
Hardwood dimension and flooring mills .....	2426	7.49	7.52	7.74	7.76	-	289.11	300.80	290.25	300.31	-
Millwork, plywood, and structural members .....	243	9.03	9.03	9.13	9.28	-	359.39	360.30	347.85	365.63	-
Millwork .....	2431	9.24	9.26	9.42	9.62	-	358.51	363.92	344.77	373.26	-
Wood kitchen cabinets .....	2434	8.49	8.57	8.58	8.73	-	334.51	334.23	327.76	337.85	-
Hardwood veneer and plywood .....	2435	7.59	7.63	7.85	7.88	-	308.15	315.12	316.36	317.56	-
Softwood veneer and plywood .....	2436	10.46	10.33	10.23	10.38	-	459.19	442.12	423.52	437.00	-
Wood containers .....	244	6.64	6.67	6.60	6.67	-	256.30	262.13	260.70	259.46	-
Wood buildings and mobile homes .....	245	8.51	8.63	8.78	8.85	-	321.68	335.71	310.81	326.57	-
Mobile homes .....	2451	8.63	8.74	8.86	8.95	-	327.08	338.24	311.87	331.15	-
Miscellaneous wood products .....	249	8.18	8.24	8.44	8.53	-	322.29	332.90	330.00	334.38	-
Furniture and fixtures .....	25	8.42	8.46	8.67	8.70	8.67	319.96	328.25	328.59	334.08	333.80
Household furniture .....	251	7.79	7.81	8.07	8.11	-	293.68	298.34	302.63	308.99	-
Wood household furniture .....	2511	7.30	7.35	7.60	7.66	-	279.59	288.12	287.28	294.91	-
Upholstered household furniture .....	2512	8.51	8.52	8.80	8.86	-	309.76	306.72	315.04	326.05	-
Metal household furniture .....	2514	7.80	7.86	8.05	8.15	-	304.20	319.90	333.27	332.52	-
Mattresses and bedspreads .....	2515	8.18	8.20	8.38	8.27	-	319.02	321.44	325.14	321.70	-
Office furniture .....	252	9.58	9.56	9.45	9.54	-	359.25	376.66	336.42	345.35	-
Public building and related furniture .....	253	8.88	9.03	9.39	9.31	-	344.54	361.20	375.60	384.50	-
Partitions and fixtures .....	254	9.72	9.75	9.95	9.91	-	382.00	390.00	400.99	399.37	-
Miscellaneous furniture and fixtures .....	259	8.77	8.85	9.21	9.21	-	329.75	347.81	353.66	351.82	-

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 nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	41.7	42.4	40.7	41.2	41.8	4.6	5.0	3.8	4.2	-
Flat glass .....	321	45.0	45.4	40.9	42.3	-	5.3	6.9	2.8	4.2	-
Glass and glassware, pressed or blown .....	322	42.2	41.8	42.0	42.1	-	5.0	4.4	4.4	4.5	-
Glass containers .....	3221	42.6	42.2	42.6	43.3	-	5.9	5.4	5.5	5.6	-
Pressed and blown glass, nec .....	3229	41.8	41.4	41.4	40.9	-	4.2	3.3	3.3	3.4	-
Products of purchased glass .....	323	39.6	40.7	39.9	40.4	-	2.4	3.2	2.2	2.6	-
Cement, hydraulic .....	324	42.8	41.6	42.7	42.6	-	4.9	3.9	4.6	4.6	-
Structural clay products .....	325	40.6	41.4	40.2	39.9	-	3.3	3.8	2.5	2.4	-
Pottery and related products .....	326	38.9	39.6	39.3	39.4	-	2.3	2.6	2.4	2.6	-
Concrete, gypsum, and plaster products .....	327	42.8	44.0	40.4	41.7	-	5.8	6.7	4.6	5.2	-
Concrete block and brick .....	3271	44.8	46.0	40.6	42.5	-	7.1	7.8	4.6	5.4	-
Concrete products, nec .....	3272	42.1	43.2	41.4	41.5	-	4.9	5.9	4.3	4.7	-
Ready-mixed concrete .....	3273	42.2	43.8	38.7	41.0	-	5.9	7.0	4.4	5.3	-
Misc. nonmetallic mineral products .....	329	41.6	41.9	40.8	40.8	-	4.3	4.6	4.0	4.3	-
Abrasive products .....	3291	41.1	42.2	40.0	39.9	-	2.4	3.0	2.5	2.5	-
Asbestos products .....	3292	37.5	42.0	38.1	40.3	-	1.8	6.0	3.5	3.9	-
Primary metal industries .....	33	41.6	43.0	41.4	41.3	41.4	4.2	5.1	4.0	4.0	-
Blast furnaces and basic steel products .....	331	42.8	43.6	41.5	41.2	41.1	5.1	5.7	4.1	4.1	-
Blast furnaces and steel mills .....	3312	42.9	43.6	41.5	41.2	-	5.3	5.7	4.3	4.2	-
Steel pipe and tubes .....	3317	42.1	44.6	41.7	41.6	-	4.2	6.5	3.9	4.7	-
Iron and steel foundries .....	332	40.7	43.1	40.5	40.7	-	3.4	5.1	3.5	3.6	-
Gray and ductile iron foundries .....	3321	41.0	43.3	40.0	40.2	-	3.7	5.4	3.2	3.5	-
Malleable iron foundries .....	3322	40.9	43.5	40.3	41.5	-	3.7	6.0	3.9	4.1	-
Steel foundries, nec .....	3325	40.0	42.2	41.5	41.3	-	2.9	4.3	4.0	3.7	-
Primary nonferrous metals .....	333	44.3	43.7	43.7	43.6	-	4.8	4.8	5.1	4.9	-
Primary aluminum .....	3334	43.9	43.3	43.6	43.5	-	5.4	5.3	5.4	5.2	-
Nonferrous rolling and drawing .....	335	41.4	42.9	42.1	41.9	-	4.5	5.7	4.9	4.9	-
Copper rolling and drawing .....	3351	41.9	43.3	41.1	41.0	-	4.6	5.9	4.6	4.7	-
Aluminum sheet, plate, and foil .....	3353	42.7	43.5	45.5	44.3	-	7.9	7.5	7.9	7.1	-
Nonferrous wire drawing and insulating .....	3357	40.8	42.5	41.1	40.5	-	3.6	5.0	3.9	3.6	-
Nonferrous foundries (castings) .....	336	38.7	40.5	40.2	39.9	-	1.6	3.1	2.7	2.6	-
Aluminum foundries .....	3365	39.6	40.7	40.7	39.9	-	1.9	2.9	3.4	2.7	-
Fabricated metal products .....	34	40.0	41.6	40.4	40.6	40.7	2.6	3.8	3.0	3.0	-
Metal cans and shipping containers .....	341	43.3	44.7	43.0	43.4	-	4.9	6.0	4.9	5.3	-
Metal cans .....	3411	43.5	44.7	43.4	43.8	-	5.0	5.9	4.9	5.3	-
Cutlery, handtools, and hardware .....	342	39.8	41.1	39.4	39.8	-	2.0	3.1	2.0	2.1	-
Hand and edge tools, and blades and handsaws ..	3423,5	38.5	40.7	39.3	39.3	-	1.6	2.8	2.2	2.1	-
Hardware, nec .....	3429	39.3	41.0	38.7	39.6	-	1.9	3.2	1.6	1.8	-
Plumbing and heating, except electric .....	343	39.3	40.5	39.2	39.8	-	2.1	3.1	2.3	2.9	-
Plumbing fixture fittings and trim .....	3432	39.4	40.0	40.0	39.9	-	1.9	2.6	2.6	3.0	-
Heating equipment, except electric .....	3433	37.9	39.0	36.7	37.7	-	1.4	1.9	1.2	1.2	-
Fabricated structural metal products .....	344	39.8	41.1	39.9	40.0	-	2.6	3.4	2.7	2.7	-
Fabricated structural metal .....	3441	41.0	42.0	40.8	41.0	-	3.0	4.0	3.1	3.3	-
Metal doors, sash, and trim .....	3442	38.5	40.0	37.4	38.4	-	1.7	2.3	1.0	1.5	-
Fabricated plate work (boiler shops) .....	3443	40.5	42.3	41.8	41.4	-	3.1	4.3	3.8	3.5	-
Sheet metal work .....	3444	39.3	40.4	39.9	39.4	-	2.3	2.9	2.6	2.7	-
Architectural metal work .....	3446	38.4	39.1	38.7	38.5	-	2.8	3.2	2.1	2.0	-
Screw machine products, bolts, etc .....	345	40.5	42.4	40.3	40.4	-	3.1	4.8	3.3	3.1	-
Screw machine products .....	3451	39.7	40.6	40.2	39.9	-	2.5	3.5	2.6	2.6	-
Bolts, nuts, rivets, and washers .....	3452	41.4	44.2	40.5	40.9	-	3.7	6.1	4.0	3.6	-
Metal forgings and stampings .....	346	39.7	42.6	40.8	41.5	-	2.3	4.3	2.8	3.1	-
Iron and steel forgings .....	3462	41.0	43.0	42.2	41.6	-	2.8	4.5	3.5	3.3	-
Automotive stampings .....	3465	39.6	43.9	40.1	41.8	-	2.3	4.8	2.4	3.1	-
Metal stampings, nec .....	3469	39.5	40.8	40.5	40.8	-	2.3	3.6	2.8	2.9	-
Metal services, nec .....	347	39.8	40.8	40.2	40.5	-	2.9	3.8	3.5	3.5	-
Plating and polishing .....	3471	39.4	40.4	39.5	39.9	-	2.4	3.2	2.7	2.8	-
Metal coating and allied services .....	3479	40.5	41.5	41.5	41.5	-	3.8	4.8	4.9	4.7	-
Ordnance and accessories, nec .....	348	40.8	41.2	41.3	41.3	-	2.7	3.3	4.3	3.3	-
Ammunition, except for small arms, nec .....	3483	40.0	40.2	40.8	41.2	-	2.1	2.7	3.3	3.1	-
Misc. fabricated metal products .....	349	39.7	41.4	40.7	40.6	-	2.3	3.4	3.1	2.8	-
Valves and pipe fittings, nec .....	3494	42.4	42.6	41.6	40.8	-	2.2	3.2	3.5	2.8	-
Misc. fabricated wire products .....	3496	39.1	40.4	39.8	40.4	-	2.1	3.3	2.7	2.9	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products .....	32	\$11.14	\$11.11	\$11.20	\$11.31	\$11.34	\$464.54	\$471.06	\$455.84	\$465.97	\$474.01
Flat glass .....	321	15.77	15.47	15.16	15.35	-	709.65	702.34	620.04	649.31	-
Glass and glassware, pressed or blown .....	322	12.47	12.45	12.62	12.88	-	526.23	520.41	530.04	542.25	-
Glass containers .....	3221	13.29	13.22	13.27	13.70	-	566.15	557.88	565.30	593.21	-
Pressed and blown glass, nec .....	3229	11.63	11.64	11.94	12.00	-	486.13	481.90	494.32	490.80	-
Products of purchased glass .....	323	9.73	9.83	9.78	9.85	-	385.31	400.08	390.22	397.94	-
Cement, hydraulic .....	324	14.36	13.72	14.08	14.14	-	614.61	570.75	601.22	602.36	-
Structural clay products .....	325	9.51	9.51	9.72	9.76	-	386.11	393.71	390.74	389.42	-
Pottery and related products .....	326	9.58	9.63	9.71	9.79	-	372.66	381.35	381.60	385.73	-
Concrete, gypsum, and plaster products .....	327	10.71	10.77	10.71	10.88	-	458.39	473.88	432.68	453.70	-
Concrete block and brick .....	3271	9.50	9.68	9.97	10.12	-	425.60	445.28	404.78	430.10	-
Concrete products, nec .....	3272	9.60	9.74	9.75	9.82	-	404.16	420.77	403.65	407.53	-
Ready-mixed concrete .....	3273	11.64	11.63	11.53	11.73	-	491.21	509.39	446.21	480.93	-
Misc. nonmetallic mineral products .....	329	11.69	11.58	11.59	11.59	-	486.30	485.20	472.87	472.87	-
Abrasive products .....	3291	10.33	10.35	10.09	10.11	-	424.56	436.77	403.60	403.39	-
Asbestos products .....	3292	10.75	11.38	11.21	11.22	-	403.13	477.96	427.10	452.17	-
Primary metal industries .....	33	12.88	12.84	13.17	13.22	13.26	535.81	552.12	545.24	545.99	548.96
Blast furnaces and basic steel products .....	331	14.84	14.70	15.18	15.27	15.26	635.15	640.92	629.97	629.12	627.19
Blast furnaces and steel mills .....	3312	15.66	15.49	16.04	16.11	-	671.81	675.36	665.66	663.73	-
Steel pipe and tubes .....	3317	11.50	11.70	12.07	12.19	-	484.15	521.82	503.32	507.10	-
Iron and steel foundries .....	332	11.49	11.56	11.66	11.63	-	467.64	498.24	472.23	473.34	-
Gray and ductile iron foundries .....	3321	12.02	12.09	12.12	12.25	-	492.82	523.50	484.80	492.45	-
Malleable iron foundries .....	3322	12.58	12.39	12.70	11.48	-	514.52	538.97	511.81	476.42	-
Steel foundries, nec .....	3325	10.70	10.84	11.08	10.96	-	428.00	457.45	459.82	452.65	-
Primary nonferrous metals .....	333	14.30	14.16	14.55	14.62	-	633.49	618.79	635.84	637.43	-
Primary aluminum .....	3334	14.77	14.62	14.82	14.78	-	648.40	633.05	646.15	642.93	-
Nonferrous rolling and drawing .....	335	12.21	12.24	12.60	12.62	-	505.49	525.10	530.46	528.78	-
Copper rolling and drawing .....	3351	11.39	11.62	11.75	11.85	-	477.24	503.15	482.93	485.85	-
Aluminum sheet, plate, and foil .....	3353	15.49	15.18	15.56	15.36	-	661.42	660.33	707.98	680.45	-
Nonferrous wire drawing and insulating .....	3357	11.97	12.04	12.20	12.34	-	488.38	511.70	501.42	499.77	-
Nonferrous foundries (castings) .....	336	9.96	10.18	10.46	10.51	-	385.45	412.29	420.49	419.35	-
Aluminum foundries .....	3365	9.55	9.77	10.19	10.21	-	378.18	397.64	414.73	407.38	-
Fabricated metal products .....	34	10.66	10.80	11.08	11.11	11.17	426.40	449.28	447.63	451.07	454.62
Metal cans and shipping containers .....	341	14.41	14.36	14.69	14.68	-	623.95	641.89	631.67	637.11	-
Metal cans .....	3411	15.31	15.21	15.53	15.49	-	665.99	679.89	674.00	678.46	-
Cutlery, handtools, and hardware .....	342	10.74	10.86	10.90	10.95	-	427.45	446.35	429.46	435.81	-
Hand and edge tools, and blades and handsaws ...	3423,5	9.88	9.98	10.11	10.14	-	390.26	406.19	397.32	398.50	-
Hardware, nec .....	3429	11.10	11.25	11.12	11.17	-	436.23	461.25	430.34	442.33	-
Plumbing and heating, except electric .....	343	9.49	9.66	9.90	10.02	-	372.96	391.23	388.08	398.80	-
Plumbing fixture fittings and trim .....	3432	9.04	9.19	9.44	9.57	-	356.18	367.60	377.60	381.84	-
Heating equipment, except electric .....	3433	9.39	9.56	9.87	9.84	-	355.88	372.84	362.23	370.97	-
Fabricated structural metal products .....	344	9.98	10.07	10.46	10.43	-	397.20	413.88	417.35	417.20	-
Fabricated structural metal .....	3441	10.22	10.31	10.44	10.38	-	419.02	433.02	425.95	425.58	-
Metal doors, sash, and trim .....	3442	8.41	8.46	8.67	8.65	-	323.79	338.40	324.26	332.16	-
Fabricated plate work (boiler shops) .....	3443	10.82	10.93	11.25	11.27	-	438.21	462.34	470.25	466.58	-
Sheet metal work .....	3444	10.26	10.36	10.90	10.93	-	403.22	418.54	434.91	430.64	-
Architectural metal work .....	3446	9.67	9.71	10.38	10.27	-	371.33	379.66	401.71	395.40	-
Screw machine products, bolts, etc .....	345	10.45	10.68	10.95	10.96	-	423.23	452.83	441.29	442.78	-
Screw machine products .....	3451	9.88	10.03	10.16	10.22	-	392.24	407.22	408.43	407.78	-
Bolts, nuts, rivets, and washers .....	3452	11.00	11.30	11.76	11.70	-	455.40	499.46	476.28	478.53	-
Metal forgings and stampings .....	346	12.53	12.71	12.87	12.99	-	497.44	541.45	525.10	539.09	-
Iron and steel forgings .....	3462	12.81	12.94	13.00	12.98	-	525.21	556.42	548.60	539.97	-
Automotive stampings .....	3465	14.26	14.33	14.67	14.77	-	564.70	629.09	588.27	617.39	-
Metal stampings, nec .....	3469	9.96	10.08	10.44	10.53	-	393.42	411.26	422.82	429.62	-
Metal services, nec .....	347	8.82	8.93	9.25	9.27	-	351.04	364.34	371.85	375.44	-
Plating and polishing .....	3471	8.73	8.84	9.12	9.16	-	343.96	357.14	360.24	365.48	-
Metal coating and allied services .....	3479	8.97	9.08	9.47	9.45	-	363.29	376.82	393.01	392.18	-
Ordnance and accessories, nec .....	348	11.87	11.80	12.30	12.18	-	484.30	486.16	507.99	503.03	-
Ammunition, except for small arms, nec .....	3483	11.64	11.51	12.04	11.99	-	465.60	462.70	491.23	493.99	-
Misc. fabricated metal products .....	349	9.85	10.05	10.43	10.43	-	391.05	416.07	424.50	423.46	-
Valves and pipe fittings, nec .....	3494	9.86	10.29	10.62	10.73	-	418.06	438.35	441.79	437.78	-
Misc. fabricated wire products .....	3496	8.62	8.77	9.03	9.07	-	337.04	354.31	359.39	366.43	-

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 nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Industrial machinery and equipment .....	35	40.6	42.0	41.5	41.2	41.2	2.8	3.9	3.6	3.3	-
Engines and turbines .....	351	40.9	42.2	41.8	41.2	-	2.4	3.4	3.7	3.9	-
Turbines and turbine generator sets .....	3511	41.9	43.2	44.6	43.3	-	4.6	5.1	5.2	5.4	-
Internal combustion engines, nec .....	3519	40.5	41.9	40.7	40.3	-	1.6	2.8	3.1	3.2	-
Farm and garden machinery .....	352	40.5	41.8	40.5	41.1	-	2.8	3.7	3.0	2.9	-
Farm machinery and equipment .....	3523	40.6	41.6	40.3	40.6	-	2.9	3.9	3.3	3.2	-
Construction and related machinery .....	353	40.6	42.3	42.5	41.9	-	2.9	3.8	3.5	3.0	-
Construction machinery .....	3531	40.8	42.0	42.0	42.0	-	2.9	3.5	2.1	1.7	-
Mining machinery .....	3532	40.8	41.8	40.0	40.1	-	3.5	4.3	2.7	2.4	-
Oil and gas field machinery .....	3533	42.3	45.2	47.0	45.0	-	4.3	5.3	6.0	5.8	-
Conveyors and conveying equipment .....	3535	39.9	42.0	42.1	42.2	-	2.7	4.4	4.5	4.1	-
Industrial trucks and tractors .....	3537	38.6	39.9	38.9	37.5	-	1.4	1.9	1.9	1.5	-
Metalworking machinery .....	354	40.9	42.4	42.1	41.7	-	3.5	4.5	4.2	3.9	-
Machine tools, metal cutting types .....	3541	39.7	41.3	42.0	41.6	-	2.8	3.7	4.2	3.7	-
Machine tools, metal forming types .....	3542	41.0	42.7	42.0	41.0	-	3.4	4.7	3.4	3.0	-
Special dies, tools, jigs, and fixtures .....	3544	41.5	43.2	42.8	42.3	-	4.2	5.3	5.2	4.9	-
Machine tool accessories .....	3545	40.5	41.6	40.7	40.5	-	2.7	3.3	2.8	2.6	-
Power driven handtools .....	3546	40.3	41.4	40.9	41.1	-	1.7	3.4	2.3	2.3	-
Special industry machinery .....	355	40.5	42.2	41.6	41.3	-	2.9	4.2	3.7	3.6	-
Textile machinery .....	3552	41.6	42.4	41.3	41.1	-	2.7	3.8	2.9	2.7	-
Printing trades machinery .....	3555	37.1	39.5	38.2	38.3	-	2.6	4.1	3.7	3.6	-
Food products machinery .....	3556	40.6	41.6	42.2	41.6	-	3.0	3.9	4.1	3.8	-
General industrial machinery .....	356	39.9	41.9	41.3	40.8	-	2.4	4.0	3.5	3.2	-
Pumps and pumping equipment .....	3561	38.8	40.6	41.2	40.4	-	1.8	3.4	3.6	2.8	-
Ball and roller bearings .....	3562	40.3	43.1	40.9	40.5	-	2.7	5.2	3.3	3.0	-
Air and gas compressors .....	3563	42.2	43.9	44.6	43.2	-	3.3	4.5	5.4	4.8	-
Blowers and fans .....	3564	38.3	40.0	39.7	39.6	-	1.4	2.8	2.5	2.5	-
Speed changers, drives, and gears .....	3566	40.5	41.8	41.5	41.5	-	3.3	5.1	4.6	4.4	-
Power transmission equipment, nec .....	3568	39.6	42.2	41.0	40.4	-	2.8	4.2	3.2	3.2	-
Computer and office equipment .....	357	41.9	41.8	41.0	40.4	-	2.8	2.9	3.1	2.2	-
Electronic computers .....	3571	41.5	41.5	40.2	39.8	-	3.0	2.9	3.1	2.4	-
Computer terminals, calculators, and office machines, nec .....	3575,8,9	38.6	39.4	41.7	40.8	-	1.8	2.6	3.6	2.2	-
Refrigeration and service machinery .....	358	39.1	40.3	39.7	40.1	-	1.5	2.6	2.2	2.4	-
Refrigeration and heating equipment .....	3585	39.2	40.5	39.7	40.4	-	1.6	2.8	2.3	2.4	-
Misc. industrial and commercial machinery .....	359	40.9	42.3	42.1	41.7	-	3.3	4.4	4.5	4.1	-
Carburetors, pistons, rings, valves .....	3592	38.9	42.0	40.7	40.6	-	2.2	4.5	3.1	3.0	-
Scales, balances, and industrial machinery, nec .....	3596,9	41.1	42.2	42.2	41.8	-	3.5	4.5	4.7	4.3	-
Electronic and other electrical equipment .....	36	39.6	40.6	40.1	40.2	40.3	2.2	2.9	2.9	2.8	-
Electric distribution equipment .....	361	39.6	41.2	40.8	40.9	-	1.7	2.4	2.4	2.7	-
Transformers, except electronic .....	3612	40.7	41.6	40.6	41.3	-	2.3	2.9	2.7	3.3	-
Switchgear and switchboard apparatus .....	3613	38.4	40.7	41.0	40.6	-	1.1	1.8	2.2	2.1	-
Electrical industrial apparatus .....	362	39.9	41.4	41.8	41.5	-	2.2	3.1	2.9	2.7	-
Motors and generators .....	3621	39.6	41.3	41.4	41.1	-	2.3	3.4	3.0	2.9	-
Relays and industrial controls .....	3625	39.3	41.0	42.0	41.9	-	1.6	2.6	2.7	2.5	-
Household appliances .....	363	38.5	39.3	39.2	39.3	-	1.6	2.4	2.1	2.3	-
Household refrigerators and freezers .....	3632	37.9	37.5	38.8	39.2	-	2.3	2.9	1.6	2.3	-
Household laundry equipment .....	3633	39.1	41.3	39.9	40.1	-	1.0	2.2	1.5	1.9	-
Electric housewares and fans .....	3634	38.5	40.0	38.8	38.5	-	1.3	2.0	1.8	1.8	-
Electric lighting and wiring equipment .....	364	38.3	40.4	39.7	39.1	-	1.8	3.0	2.4	2.1	-
Electric lamps .....	3641	39.0	40.8	41.5	40.8	-	2.1	3.2	3.3	3.0	-
Current-carrying wiring devices .....	3643	38.6	40.5	39.4	38.9	-	2.0	3.1	2.4	2.3	-
Noncurrent-carrying wiring devices .....	3644	37.7	41.0	41.1	40.9	-	.9	2.2	2.1	1.8	-
Residential lighting fixtures .....	3645	37.2	38.1	37.7	36.3	-	1.5	1.8	1.5	1.0	-
Household audio and video equipment .....	365	38.2	40.2	36.0	38.6	-	2.3	2.6	2.4	2.6	-
Household audio and video equipment .....	3651	37.3	41.0	35.5	38.8	-	1.7	2.5	1.7	1.8	-
Communications equipment .....	366	41.5	42.0	41.6	41.5	-	1.9	2.5	3.8	3.5	-
Telephone and telegraph apparatus .....	3661	43.5	43.9	42.7	42.4	-	2.0	2.7	5.0	4.6	-
Electronic components and accessories .....	367	40.0	40.1	40.3	40.0	-	2.8	3.3	3.5	3.0	-
Electron tubes .....	3671	40.5	39.8	41.4	41.5	-	2.0	3.9	3.6	3.6	-
Semiconductors and related devices .....	3674	41.0	40.6	41.1	40.7	-	4.0	4.1	4.8	4.0	-
Electronic components, nec .....	3679	39.6	39.4	39.8	39.8	-	2.2	2.4	2.7	2.5	-
Misc. electrical equipment and supplies .....	369	39.2	41.0	39.3	40.2	-	2.0	3.2	2.3	2.4	-
Storage batteries .....	3691	37.5	39.4	38.5	39.8	-	.8	1.9	1.8	2.1	-
Engine electrical equipment .....	3694	39.5	41.8	38.4	40.1	-	2.4	4.2	2.0	2.4	-

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 nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings					
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	
<b>Durable goods—Continued</b>												
Industrial machinery and equipment .....	35	\$11.56	\$11.70	\$12.13	\$12.11	\$12.13	\$469.34	\$491.40	\$503.40	\$498.93	\$499.76	
Engines and turbines .....	351	14.21	14.35	15.09	15.08	-	581.19	605.57	630.76	621.30	-	
Turbines and turbine generator sets .....	3511	14.60	14.45	15.33	15.29	-	611.74	624.24	683.72	662.06	-	
Internal combustion engines, nec .....	3519	14.07	14.32	14.98	14.99	-	569.84	600.01	609.69	604.10	-	
Farm and garden machinery .....	352	10.66	10.80	11.24	11.22	-	431.73	451.44	455.22	461.14	-	
Farm machinery and equipment .....	3523	11.75	11.94	12.39	12.21	-	477.05	496.70	499.32	495.73	-	
Construction and related machinery .....	353	11.76	11.80	12.39	12.43	-	477.46	499.14	526.58	520.82	-	
Construction machinery .....	3531	13.25	13.29	14.46	14.47	-	540.60	558.18	607.32	607.74	-	
Mining machinery .....	3532	11.69	11.81	12.06	12.17	-	476.95	493.66	482.40	488.02	-	
Oil and gas field machinery .....	3533	11.10	11.08	11.39	11.42	-	469.53	500.82	535.33	513.90	-	
Conveyors and conveying equipment .....	3535	10.40	10.56	11.13	11.04	-	414.96	443.52	468.57	465.89	-	
Industrial trucks and tractors .....	3537	10.27	10.33	10.53	10.59	-	396.42	412.17	409.62	397.13	-	
Metalworking machinery .....	354	12.06	12.20	12.59	12.57	-	493.25	517.28	530.04	524.17	-	
Machine tools, metal cutting types .....	3541	12.01	12.13	12.62	12.65	-	476.80	500.97	530.04	526.24	-	
Machine tools, metal forming types .....	3542	12.11	12.33	12.40	12.41	-	496.51	526.49	520.80	508.81	-	
Special dies, tools, jigs, and fixtures .....	3544	12.72	12.83	13.19	13.15	-	527.88	554.26	564.53	556.25	-	
Machine tool accessories .....	3545	10.74	10.79	11.21	11.17	-	434.97	448.86	456.25	452.39	-	
Power driven handtools .....	3546	9.73	9.93	10.39	10.31	-	392.12	411.10	424.95	423.74	-	
Special industry machinery .....	355	11.75	11.89	12.28	12.33	-	475.88	501.76	510.85	509.23	-	
Textile machinery .....	3552	9.98	10.11	10.38	10.35	-	415.17	428.66	428.69	425.39	-	
Printing trades machinery .....	3555	13.67	13.92	14.15	14.22	-	507.16	549.84	540.53	544.63	-	
Food products machinery .....	3556	11.63	11.76	12.11	12.16	-	472.18	489.22	511.04	505.86	-	
General industrial machinery .....	356	11.07	11.33	11.57	11.61	-	441.69	474.73	477.84	473.69	-	
Pumps and pumping equipment .....	3561	11.41	11.71	12.19	12.21	-	442.71	475.43	502.23	493.28	-	
Ball and roller bearings .....	3562	11.61	12.18	12.21	12.19	-	467.88	524.96	499.39	493.70	-	
Air and gas compressors .....	3563	11.49	11.55	12.02	11.97	-	484.88	507.05	536.09	517.10	-	
Blowers and fans .....	3564	9.75	9.96	10.12	10.15	-	373.43	398.40	401.76	401.94	-	
Speed changers, drives, and gears .....	3566	11.40	11.74	12.17	12.20	-	461.70	490.73	505.06	506.30	-	
Power transmission equipment, nec .....	3568	10.74	10.95	11.10	11.30	-	425.30	462.09	455.10	456.52	-	
Computer and office equipment .....	357	11.36	11.41	12.30	12.10	-	475.98	476.94	504.30	488.84	-	
Electronic computers .....	3571	11.95	11.86	12.72	12.43	-	495.93	492.19	511.34	494.71	-	
Computer terminals, calculators, and office machines, nec .....	3575,8,9	10.77	10.98	12.22	12.27	-	415.72	432.61	509.57	500.62	-	
Refrigeration and service machinery .....	358	10.74	10.90	11.07	11.02	-	419.93	439.27	439.48	441.90	-	
Refrigeration and heating equipment .....	3585	10.85	11.09	11.21	11.10	-	425.32	449.15	445.04	448.44	-	
Misc. industrial and commercial machinery .....	359	11.41	11.54	11.79	11.79	-	466.67	488.14	496.36	491.64	-	
Carburetors, pistons, rings, valves .....	3592	12.60	12.76	12.21	12.22	-	490.14	535.92	496.95	496.13	-	
Scales, balances, and industrial machinery, nec .....	3596,9	11.10	11.20	11.54	11.55	-	456.21	472.64	486.99	482.79	-	
Electronic and other electrical equipment .....	36	10.17	10.21	10.55	10.63	10.68	402.73	414.53	423.06	427.33	430.40	
Electric distribution equipment .....	361	9.95	10.05	10.55	10.57	-	394.02	414.06	430.44	432.31	-	
Transformers, except electronic .....	3612	9.75	9.81	10.19	10.31	-	396.83	408.10	413.71	425.80	-	
Switchgear and switchboard apparatus .....	3613	10.18	10.31	10.94	10.85	-	390.91	419.62	448.54	440.51	-	
Electrical industrial apparatus .....	362	9.94	9.97	10.20	10.17	-	396.61	412.76	426.36	422.06	-	
Motors and generators .....	3621	9.94	9.96	9.84	9.83	-	393.62	411.35	407.38	404.01	-	
Relays and industrial controls .....	3625	9.95	10.00	10.77	10.71	-	391.04	410.00	452.34	448.75	-	
Household appliances .....	363	10.22	10.29	10.37	10.35	-	393.47	404.40	406.50	406.76	-	
Household refrigerators and freezers .....	3632	11.45	11.49	11.67	11.63	-	433.96	430.88	452.80	455.90	-	
Household laundry equipment .....	3633	11.89	12.33	12.39	12.36	-	464.90	509.23	494.36	495.64	-	
Electric housewares and fans .....	3634	7.58	7.58	7.72	7.60	-	291.83	303.20	299.54	292.60	-	
Electric lighting and wiring equipment .....	364	10.04	10.17	10.24	10.38	-	384.53	410.87	406.53	405.86	-	
Electric lamps .....	3641	11.45	11.46	11.66	11.60	-	446.55	467.57	483.89	473.28	-	
Current-carrying wiring devices .....	3643	9.74	9.92	10.19	10.31	-	375.96	401.76	401.49	401.06	-	
Noncurrent-carrying wiring devices .....	3644	9.39	9.56	9.65	9.67	-	354.00	391.96	396.62	395.50	-	
Residential lighting fixtures .....	3645	7.58	7.60	7.73	7.84	-	281.98	289.56	291.42	284.59	-	
Household audio and video equipment .....	365	9.37	9.55	10.00	10.63	-	357.93	383.91	360.00	410.32	-	
Household audio and video equipment .....	3651	9.73	9.87	10.26	11.06	-	362.93	404.67	364.23	429.13	-	
Communications equipment .....	366	10.85	10.84	11.53	11.47	-	450.28	455.28	479.65	476.01	-	
Telephone and telegraph apparatus .....	3661	11.23	11.28	12.32	12.11	-	488.51	495.19	526.06	513.46	-	
Electronic components and accessories .....	367	9.88	9.85	10.30	10.32	-	395.20	394.99	415.09	412.80	-	
Electron tubes .....	3671	11.94	12.05	11.98	12.07	-	483.57	479.59	495.97	500.91	-	
Semiconductors and related devices .....	3674	11.99	11.93	12.46	12.47	-	491.59	484.36	512.11	507.53	-	
Electronic components, nec .....	3679	9.34	9.25	9.50	9.53	-	369.86	364.45	378.10	379.29	-	
Misc. electrical equipment and supplies .....	369	11.02	11.12	11.30	11.58	-	431.98	455.92	444.09	465.52	-	
Storage batteries .....	3691	11.82	11.90	12.41	12.52	-	443.25	468.86	477.79	498.30	-	
Engine electrical equipment .....	3694	11.77	12.01	11.78	12.12	-	464.92	502.02	452.35	486.01	-	

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 nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	40.8	42.8	41.0	41.2	41.4	2.9	4.6	3.0	3.1	-
Motor vehicles and equipment .....	371	40.9	43.8	40.5	41.3	41.8	2.6	5.2	2.5	2.8	-
Motor vehicles and car bodies .....	3711	41.1	44.0	41.2	41.3	-	2.5	5.3	3.1	2.9	-
Truck and bus bodies .....	3713	39.9	41.7	41.0	41.7	-	2.2	3.8	2.8	3.2	-
Motor vehicle parts and accessories .....	3714	41.1	44.4	40.1	41.3	-	2.8	5.6	2.1	2.7	-
Truck trailers .....	3715	38.9	40.3	39.7	40.5	-	2.0	2.6	2.1	2.2	-
Aircraft and parts .....	372	41.4	42.4	41.9	41.4	-	3.8	4.5	3.9	3.7	-
Aircraft .....	3721	41.8	42.2	41.6	41.1	-	4.2	4.4	4.0	3.8	-
Aircraft engines and engine parts .....	3724	40.9	42.6	42.2	42.1	-	3.3	4.9	4.2	4.0	-
Aircraft parts and equipment, nec .....	3728	41.2	42.6	42.2	41.4	-	3.6	4.3	3.6	3.3	-
Ship and boat building and repairing .....	373	39.5	40.3	40.5	40.3	-	2.4	3.1	2.7	2.6	-
Ship building and repairing .....	3731	39.8	41.1	41.6	41.1	-	2.5	3.1	2.9	2.7	-
Boat building and repairing .....	3732	38.9	39.1	37.9	38.4	-	2.3	2.9	2.0	2.4	-
Railroad equipment .....	374	39.7	41.6	41.3	41.0	-	2.0	2.6	2.3	2.0	-
Guided missiles, space vehicles, and parts .....	376	41.4	42.4	42.5	41.3	-	3.3	3.8	3.6	3.2	-
Guided missiles and space vehicles .....	3761	41.2	42.4	42.8	41.2	-	3.5	3.9	4.0	3.4	-
Misc. transportation equipment .....	379	39.1	40.3	38.8	39.7	-	1.8	2.9	1.9	2.6	-
Travel trailers and campers .....	3792	37.7	38.7	37.6	39.7	-	1.1	2.2	1.1	2.6	-
Instruments and related products .....	38	40.3	40.8	40.9	40.8	40.5	2.1	2.6	3.0	2.6	-
Search and navigation equipment .....	381	40.2	40.3	40.5	40.3	-	1.9	2.0	2.5	2.0	-
Measuring and controlling devices .....	382	40.7	41.1	40.9	40.9	-	2.1	2.6	2.5	2.2	-
Environmental controls .....	3822	39.4	40.7	39.4	39.0	-	1.7	2.4	2.1	1.6	-
Process control instruments .....	3823	41.3	42.4	41.9	41.2	-	3.0	3.7	3.1	2.6	-
Instruments to measure electricity .....	3825	40.7	40.2	40.6	40.5	-	1.6	2.0	2.0	2.0	-
Medical instruments and supplies .....	384	40.2	40.7	40.9	40.6	-	2.1	2.8	3.7	3.1	-
Surgical and medical instruments .....	3841	40.5	40.5	40.6	40.6	-	2.3	2.7	4.1	3.4	-
Surgical appliances and supplies .....	3842	39.5	40.5	40.7	40.3	-	1.7	2.6	3.2	2.9	-
Ophthalmic goods .....	385	38.7	39.9	39.9	39.9	-	1.8	2.6	2.1	2.2	-
Photographic equipment and supplies .....	386	41.3	42.2	43.0	42.5	-	2.6	3.7	4.5	4.1	-
Watches, clocks, watchcases, and parts .....	387	36.3	38.6	38.4	39.6	-	1.1	2.0	1.0	1.8	-
Miscellaneous manufacturing industries .....	39	38.2	39.3	39.3	39.2	39.4	1.7	2.4	2.3	2.3	-
Jewelry, silverware, and plated ware .....	391	37.5	37.7	38.1	37.9	-	1.1	1.5	1.6	1.8	-
Jewelry, precious metal .....	3911	37.2	37.1	37.7	37.7	-	1.1	1.4	1.7	1.9	-
Musical instruments .....	393	37.8	39.9	38.9	38.6	-	1.6	2.3	2.0	2.0	-
Toys and sporting goods .....	394	38.4	39.6	39.8	39.8	-	1.8	2.6	2.8	2.8	-
Dolls, games, toys, and children's vehicles .....	3942,4	36.9	38.6	39.5	39.6	-	1.2	1.9	2.8	2.5	-
Sporting and athletic goods, nec .....	3949	39.4	40.2	40.0	39.9	-	2.1	3.0	2.8	3.0	-
Pens, pencils, office, and art supplies .....	395	39.2	39.7	40.7	40.4	-	1.7	2.2	2.1	2.0	-
Costume jewelry and notions .....	396	37.9	40.5	39.3	39.6	-	1.9	3.0	2.1	2.3	-
Costume jewelry .....	3961	37.6	41.6	39.5	39.4	-	2.2	3.7	2.6	2.5	-
Miscellaneous manufactures .....	399	38.1	39.3	39.0	39.0	-	1.8	2.5	2.3	2.3	-
Signs and advertising specialties .....	3993	39.4	39.8	39.2	39.1	-	2.4	3.0	2.4	2.5	-
<b>Nondurable goods</b> .....		39.2	40.0	39.6	39.5	39.7	2.9	3.4	3.2	3.2	3.3
Food and kindred products .....	20	39.8	40.7	39.9	39.8	40.3	3.7	4.2	3.7	3.8	-
Meat products .....	201	38.9	40.4	38.7	38.7	-	3.2	4.2	3.2	3.2	-
Meat packing plants .....	2011	40.6	41.8	39.8	39.0	-	4.0	5.2	3.9	3.5	-
Sausages and other prepared meats .....	2013	40.5	40.8	41.2	40.4	-	4.4	4.8	4.4	4.1	-
Poultry slaughtering and processing .....	2015	37.2	39.3	37.1	37.8	-	2.3	3.3	2.3	2.6	-
Dairy products .....	202	41.4	41.2	40.9	40.9	-	4.5	4.8	4.2	4.3	-
Cheese, natural and processed .....	2022	39.9	39.6	39.2	39.5	-	3.7	4.1	3.3	3.7	-
Fluid milk .....	2026	42.3	41.6	41.2	41.2	-	5.2	4.9	4.5	4.4	-
Preserved fruits and vegetables .....	203	39.4	40.2	39.8	40.0	-	3.2	3.3	3.1	3.4	-
Canned specialties .....	2032	40.5	41.9	41.7	41.6	-	2.3	3.3	5.5	4.5	-
Canned fruits and vegetables .....	2033	38.5	40.8	39.5	40.3	-	2.7	3.4	2.8	3.7	-
Frozen fruits and vegetables .....	2037	38.2	38.8	38.9	39.1	-	3.5	3.1	3.0	3.7	-
Grain mill products .....	204	42.3	43.6	44.0	43.8	-	4.6	5.2	6.1	6.0	-
Flour and other grain mill products .....	2041	44.8	47.2	47.5	46.7	-	4.6	5.6	6.9	6.6	-
Prepared feeds, nec .....	2048	40.9	41.5	42.4	42.3	-	4.3	4.6	5.4	5.3	-

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 nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	\$13.89	\$14.13	\$14.43	\$14.52	\$14.77	\$566.71	\$604.76	\$591.63	\$598.22	\$611.48
Motor vehicles and equipment .....	371	14.39	14.73	14.87	14.99	15.38	588.55	645.17	602.24	619.09	642.88
Motor vehicles and car bodies .....	3711	16.84	17.20	18.13	17.98	-	692.12	756.80	746.96	742.57	-
Truck and bus bodies .....	3713	12.37	12.57	11.97	12.76	-	493.56	524.17	490.77	532.09	-
Motor vehicle parts and accessories .....	3714	13.13	13.49	13.20	13.50	-	539.64	598.96	529.32	557.55	-
Truck trailers .....	3715	9.46	9.55	9.74	9.83	-	367.99	384.87	386.68	398.12	-
Aircraft and parts .....	372	14.58	14.68	15.26	15.36	-	603.61	622.43	639.39	635.90	-
Aircraft .....	3721	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	-	-	-	-	-	-
Aircraft engines and engine parts .....	3724	\$14.51	\$14.63	\$15.15	\$15.11	-	\$593.46	\$623.24	\$639.33	\$636.13	-
Aircraft parts and equipment, nec .....	3728	13.13	13.26	13.79	13.87	-	540.96	564.88	581.94	574.22	-
Ship and boat building and repairing .....	373	10.60	10.83	11.31	11.33	-	418.70	436.45	458.06	456.60	-
Ship building and repairing .....	3731	11.65	11.87	12.04	12.11	-	463.67	487.86	500.86	497.72	-
Boat building and repairing .....	3732	8.72	8.87	9.40	9.35	-	339.21	346.82	356.26	359.04	-
Railroad equipment .....	374	13.16	13.34	13.85	13.65	-	522.45	554.94	572.01	559.65	-
Guided missiles, space vehicles, and parts .....	376	14.12	14.23	14.68	14.65	-	584.57	603.35	623.90	605.05	-
Guided missiles and space vehicles .....	3761	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	-	-	-	-	-	-
Misc. transportation equipment .....	379	\$10.76	\$10.89	\$11.06	\$10.99	-	\$420.72	\$438.87	\$429.13	\$436.30	-
Travel trailers and campers .....	3792	9.52	9.52	9.40	9.75	-	358.90	368.42	353.44	387.08	-
Instruments and related products .....	38	11.19	11.21	11.69	11.66	\$11.68	450.96	457.37	478.12	475.73	\$473.04
Search and navigation equipment .....	381	14.52	14.59	15.14	15.12	-	583.70	587.98	613.17	609.34	-
Measuring and controlling devices .....	382	10.59	10.59	11.10	11.13	-	431.01	435.25	453.99	455.22	-
Environmental controls .....	3822	9.25	9.28	9.76	9.81	-	364.45	377.70	384.54	362.59	-
Process control instruments .....	3823	10.24	10.26	10.85	10.94	-	422.91	435.02	454.62	450.73	-
Instruments to measure electricity .....	3825	10.74	10.72	11.29	11.34	-	437.12	430.94	458.37	459.27	-
Medical instruments and supplies .....	384	9.65	9.70	10.30	10.24	-	387.93	394.79	421.27	415.74	-
Surgical and medical instruments .....	3841	9.65	9.73	10.37	10.31	-	390.83	394.07	421.02	418.59	-
Surgical appliances and supplies .....	3842	9.36	9.49	10.01	10.00	-	369.72	384.35	407.41	403.00	-
Ophthalmic goods .....	385	8.06	8.14	8.45	8.43	-	311.92	324.79	337.16	336.36	-
Photographic equipment and supplies .....	386	14.05	14.09	14.45	14.40	-	580.27	594.60	621.35	612.00	-
Watches, clocks, watchcases, and parts .....	387	7.67	7.74	7.93	7.98	-	278.42	298.76	304.51	316.01	-
Miscellaneous manufacturing industries .....	39	8.56	8.59	8.76	8.78	8.82	326.99	337.59	344.27	344.18	347.51
Jewelry, silverware, and plated ware .....	391	9.21	9.19	9.25	9.31	-	345.38	346.46	352.43	352.85	-
Jewelry, precious metal .....	3911	9.16	9.14	9.20	9.27	-	340.75	339.09	346.84	349.48	-
Musical instruments .....	393	8.50	8.53	8.94	8.99	-	321.30	340.35	347.77	347.01	-
Toys and sporting goods .....	394	7.86	7.88	8.20	8.13	-	301.82	312.05	326.36	323.57	-
Dolls, games, toys, and children's vehicles .....	3942,4	7.77	7.83	8.10	7.97	-	286.71	302.24	319.95	315.61	-
Sporting and athletic goods, nec .....	3949	7.91	7.91	8.27	8.24	-	311.65	317.98	330.80	328.78	-
Pens, pencils, office, and art supplies .....	395	8.80	8.82	9.08	9.21	-	344.96	350.15	369.56	372.08	-
Costume jewelry and notions .....	396	7.50	7.50	7.51	7.51	-	284.25	303.75	295.14	297.40	-
Costume jewelry .....	3961	6.67	6.75	6.58	6.58	-	250.79	280.80	259.91	259.25	-
Miscellaneous manufactures .....	399	9.08	9.16	9.21	9.26	-	345.95	359.99	359.19	361.14	-
Signs and advertising specialties .....	3993	9.73	9.78	9.90	10.03	-	383.36	389.24	388.08	392.17	-
<b>Nondurable goods</b> .....		10.08	10.08	10.35	10.38	10.40	395.14	403.20	409.86	410.01	412.88
Food and kindred products .....	20	9.59	9.61	9.80	9.83	9.88	381.68	391.13	391.02	391.23	398.16
Meat products .....	201	7.92	7.95	7.99	8.00	-	308.09	321.18	309.21	309.60	-
Meat packing plants .....	2011	8.63	8.78	8.74	8.81	-	350.38	367.00	347.85	343.59	-
Sausages and other prepared meats .....	2013	9.42	9.44	9.38	9.38	-	381.51	385.15	386.46	378.95	-
Poultry slaughtering and processing .....	2015	6.82	6.82	6.90	6.92	-	253.70	268.03	255.99	261.58	-
Dairy products .....	202	10.43	10.53	10.70	10.70	-	431.80	433.84	437.63	437.63	-
Cheese, natural and processed .....	2022	9.63	9.80	9.71	9.77	-	384.24	388.08	380.63	385.92	-
Fluid milk .....	2026	10.97	10.99	11.25	11.19	-	464.03	457.18	463.50	461.03	-
Preserved fruits and vegetables .....	203	8.97	9.03	9.44	9.41	-	353.42	363.01	375.71	376.40	-
Canned specialties .....	2032	10.77	11.14	12.37	12.18	-	436.19	466.77	515.83	506.69	-
Canned fruits and vegetables .....	2033	9.26	9.22	9.73	9.68	-	356.51	376.18	384.34	390.10	-
Frozen fruits and vegetables .....	2037	8.13	8.16	8.53	8.56	-	310.57	316.61	331.82	334.70	-
Grain mill products .....	204	11.24	11.38	11.64	11.72	-	475.45	496.17	512.16	513.34	-
Flour and other grain mill products .....	2041	10.31	10.40	10.67	10.68	-	461.89	490.88	506.83	498.76	-
Prepared feeds, nec .....	2048	9.05	9.07	9.36	9.43	-	370.15	376.41	396.86	398.89	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Bakery products .....	205	39.4	39.6	38.9	38.6	-	3.7	3.9	3.4	3.6	-
Bread, cake, and related products .....	2051	39.9	39.6	38.7	38.8	-	4.4	4.4	3.7	4.1	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	38.5	39.6	39.1	38.2	-	2.3	2.8	2.9	2.8	-
Sugar and confectionery products .....	206	39.3	40.1	39.6	38.8	-	2.4	2.9	3.0	2.4	-
Raw cane sugar .....	2061	39.6	39.4	49.3	43.6	-	2.6	2.9	10.5	4.7	-
Cane sugar refining .....	2062	46.9	46.6	46.2	45.4	-	8.6	7.6	8.5	7.2	-
Beet sugar .....	2063	38.4	38.2	38.9	36.7	-	3.3	2.2	2.1	1.6	-
Candy and other confectionery products .....	2064	38.1	39.0	37.4	37.0	-	1.6	2.1	1.7	1.5	-
Fats and oils .....	207	43.4	43.7	44.0	44.1	-	5.2	5.4	5.4	5.4	-
Beverages .....	208	41.2	41.6	41.6	41.4	-	4.7	4.8	4.5	4.8	-
Malt beverages .....	2082	43.4	42.8	44.1	42.8	-	8.3	6.9	6.8	6.9	-
Bottled and canned soft drinks .....	2086	40.3	41.8	41.0	41.4	-	3.5	4.8	4.0	4.6	-
Misc. food and kindred products .....	209	38.8	40.2	39.1	39.1	-	4.1	4.8	4.1	4.1	-
Tobacco products .....	21	38.1	39.1	38.2	37.7	38.2	1.7	1.7	1.6	1.6	-
Cigarettes .....	211	38.3	39.3	38.4	37.3	-	1.8	1.7	1.7	1.6	-
Textile mill products .....	22	39.0	40.1	39.2	39.6	40.1	2.6	3.5	3.3	3.4	-
Broadwoven fabric mills, cotton .....	221	39.1	39.9	39.3	39.5	-	3.6	3.8	3.9	4.1	-
Broadwoven fabric mills, synthetics .....	222	39.9	41.0	39.2	39.5	-	2.8	3.9	3.1	3.2	-
Broadwoven fabric mills, wool .....	223	37.6	41.1	39.8	40.3	-	.8	3.7	3.2	3.8	-
Narrow fabric mills .....	224	40.1	40.5	39.8	40.2	-	2.2	2.8	2.8	3.0	-
Knitting mills .....	225	37.3	39.1	37.7	38.1	-	2.1	2.9	2.4	2.6	-
Women's hosiery, except socks .....	2251	37.0	38.3	38.0	37.5	-	2.0	2.6	2.3	2.2	-
Hosiery, nec .....	2252	35.1	37.8	37.6	36.4	-	1.1	2.1	1.7	1.5	-
Knit outerwear mills .....	2253	37.4	39.1	36.3	37.7	-	2.5	3.4	2.2	2.8	-
Knit underwear mills .....	2254	37.0	38.6	35.7	36.7	-	.9	1.5	1.6	1.7	-
Weft knit fabric mills .....	2257	39.3	40.4	40.0	40.5	-	3.2	3.9	3.6	4.1	-
Textile finishing, except wool .....	226	40.4	41.7	42.4	42.7	-	3.2	4.5	5.7	5.8	-
Finishing plants, cotton .....	2261	40.4	40.9	41.5	41.8	-	3.1	3.7	5.4	5.2	-
Finishing plants, synthetics .....	2262	40.4	42.2	43.7	43.9	-	3.2	5.0	6.5	6.9	-
Carpets and rugs .....	227	41.3	41.3	41.3	41.5	-	2.9	4.0	3.9	3.8	-
Yarn and thread mills .....	228	38.7	39.9	38.2	39.0	-	2.5	3.6	2.9	3.2	-
Yarn spinning mills .....	2281	39.1	40.3	38.8	39.6	-	2.7	3.8	3.1	3.4	-
Throwing and winding mills .....	2282	37.8	37.1	33.6	34.1	-	2.2	2.2	2.1	1.6	-
Miscellaneous textile goods .....	229	40.3	40.7	40.9	40.6	-	3.2	3.5	2.9	2.9	-
Apparel and other textile products .....	23	35.2	36.5	36.4	36.3	36.7	1.0	1.5	1.6	1.5	-
Men's and boys' suits and coats .....	231	34.1	35.2	36.0	35.9	-	.6	.7	1.0	.8	-
Men's and boys' furnishings .....	232	34.9	36.4	36.0	36.0	-	.8	1.2	1.5	1.3	-
Men's and boys' shirts .....	2321	35.1	36.2	36.3	35.7	-	.6	1.1	1.5	1.1	-
Men's and boys' trousers and slacks .....	2325	33.2	35.4	35.8	35.6	-	.6	1.2	1.5	1.4	-
Men's and boys' work clothing .....	2326	35.1	36.8	34.9	35.9	-	.8	1.0	1.2	1.0	-
Women's and misses' outerwear .....	233	33.8	34.8	35.6	35.5	-	1.1	1.2	1.6	1.4	-
Women's and misses' blouses and shirts .....	2331	33.9	35.6	35.7	35.8	-	.7	1.0	1.1	.8	-
Women's, juniors', and misses' dresses .....	2335	32.1	33.6	34.7	34.3	-	1.0	1.3	1.7	1.5	-
Women's and misses' suits and coats .....	2337	33.8	35.3	34.6	34.3	-	.7	1.3	1.0	1.0	-
Women's and misses' outerwear, nec .....	2339	34.3	35.0	36.1	36.0	-	1.2	1.3	1.7	1.6	-
Women's and children's undergarments .....	234	36.4	37.6	37.9	37.4	-	.8	1.2	1.8	1.3	-
Women's and children's underwear .....	2341	36.8	38.0	38.0	37.5	-	.8	1.2	1.8	1.3	-
Brassieres, girdles, and allied garments .....	2342	34.2	35.3	37.1	36.7	-	1.0	1.1	1.6	1.6	-
Girls' and children's outerwear .....	236	35.0	36.7	36.1	36.3	-	.9	1.5	1.5	1.6	-
Girls' and children's dresses and blouses .....	2361	34.3	35.5	34.6	34.9	-	.9	1.5	1.5	1.3	-
Misc. apparel and accessories .....	238	36.5	37.3	36.3	36.8	-	1.1	1.7	1.3	1.5	-
Misc. fabricated textile products .....	239	37.4	38.8	37.7	37.9	-	1.5	2.6	1.9	2.2	-
Curtains and draperies .....	2391	36.2	36.9	35.7	37.1	-	1.3	1.6	1.1	1.9	-
House furnishings, nec .....	2392	36.8	37.8	36.7	36.3	-	1.0	2.1	1.5	1.6	-
Automotive and apparel trimmings .....	2396	38.9	40.3	39.3	39.6	-	2.2	3.6	2.2	2.5	-
Paper and allied products .....	26	42.5	43.2	42.8	42.7	42.9	4.3	4.6	4.3	4.4	-
Paper mills .....	262	45.8	45.3	45.2	44.8	-	6.0	5.2	5.3	5.3	-
Paperboard mills .....	263	45.3	45.5	44.9	44.7	-	7.9	7.7	6.4	6.5	-

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 nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Bakery products .....	205	\$10.73	\$10.81	\$11.08	\$11.21	-	\$422.76	\$428.08	\$431.01	\$432.71	-
Bread, cake, and related products .....	2051	10.78	10.90	11.07	11.11	-	430.12	431.64	428.41	431.07	-
Cookies, crackers, and frozen bakery products, except bread .....	2052,3	10.61	10.63	11.11	11.41	-	408.49	420.95	434.40	435.86	-
Sugar and confectionery products .....	206	10.39	10.48	10.66	10.78	-	408.33	420.25	422.14	418.26	-
Raw cane sugar .....	2061	10.08	10.18	10.67	9.77	-	399.17	401.09	526.03	425.97	-
Cane sugar refining .....	2062	14.02	14.01	14.65	14.53	-	657.54	652.87	676.83	659.66	-
Beet sugar .....	2063	11.50	11.48	10.63	11.95	-	441.60	438.54	413.51	438.57	-
Candy and other confectionery products .....	2064	9.23	9.29	9.73	9.83	-	351.66	362.31	363.90	363.71	-
Fats and oils .....	207	10.00	10.06	10.25	10.21	-	434.00	439.62	451.00	450.26	-
Beverages .....	208	13.62	13.44	13.71	13.71	-	561.14	559.10	570.34	567.59	-
Malt beverages .....	2082	19.05	18.63	18.73	18.95	-	826.77	797.36	825.99	811.06	-
Bottled and canned soft drinks .....	2086	10.63	10.80	11.18	11.16	-	428.39	451.44	458.38	462.02	-
Misc. food and kindred products .....	209	8.98	8.94	9.05	9.11	-	348.42	359.39	353.86	356.20	-
Tobacco products .....	21	16.98	17.03	17.35	17.56	\$17.83	646.94	665.87	662.77	662.01	\$681.11
Cigarettes .....	211	19.13	19.29	20.22	20.00	-	732.68	758.10	776.45	746.00	-
Textile mill products .....	22	7.92	7.98	8.16	8.20	8.21	308.88	320.00	319.87	324.72	329.22
Broadwoven fabric mills, cotton .....	221	8.17	8.23	8.42	8.48	-	319.45	328.38	330.91	334.96	-
Broadwoven fabric mills, synthetics .....	222	8.56	8.60	8.75	8.76	-	341.54	352.60	343.00	346.02	-
Broadwoven fabric mills, wool .....	223	8.42	8.67	8.68	8.68	-	316.59	356.34	345.46	349.80	-
Narrow fabric mills .....	224	7.33	7.31	7.68	7.79	-	293.93	296.06	305.66	313.16	-
Knitting mills .....	225	7.70	7.36	7.49	7.53	-	272.29	287.78	282.37	286.89	-
Women's hosiery, except socks .....	2251	6.74	6.86	7.04	7.05	-	249.38	262.74	267.52	264.38	-
Hosiery, nec .....	2252	6.98	7.01	7.16	7.18	-	245.00	264.98	269.22	261.35	-
Knit outerwear mills .....	2253	7.18	7.25	7.36	7.43	-	268.53	283.48	267.17	280.11	-
Knit underwear mills .....	2254	7.36	7.37	7.41	7.43	-	272.32	284.48	264.54	272.68	-
Weft knit fabric mills .....	2257	8.06	8.09	8.27	8.30	-	316.76	326.84	330.80	336.15	-
Textile finishing, except wool .....	226	8.27	8.38	8.67	8.74	-	334.11	349.45	367.61	373.20	-
Finishing plants, cotton .....	2261	8.18	8.32	8.56	8.70	-	330.47	340.29	355.24	363.66	-
Finishing plants, synthetics .....	2262	8.62	8.70	9.05	9.11	-	348.25	367.14	395.49	399.93	-
Carpets and rugs .....	227	8.18	8.18	8.32	8.28	-	337.83	337.83	343.62	343.62	-
Yarn and thread mills .....	228	7.57	7.66	7.85	7.86	-	292.96	305.63	299.87	306.54	-
Yarn spinning mills .....	2281	7.57	7.66	7.86	7.87	-	295.99	308.70	304.97	311.65	-
Throwing and winding mills .....	2282	7.82	7.84	8.02	7.96	-	295.60	290.86	269.47	271.44	-
Miscellaneous textile goods .....	229	9.00	9.18	9.30	9.39	-	362.70	373.63	380.37	381.23	-
Apparel and other textile products .....	23	6.55	6.58	6.63	6.72	6.74	230.56	240.17	241.33	243.94	247.36
Men's and boys' suits and coats .....	231	7.33	7.33	7.36	7.43	-	249.95	258.02	264.96	266.74	-
Men's and boys' furnishings .....	232	6.10	6.07	6.15	6.24	-	212.89	220.95	221.40	224.64	-
Men's and boys' shirts .....	2321	6.03	5.95	6.08	6.17	-	211.65	215.39	220.70	220.27	-
Men's and boys' trousers and slacks .....	2325	6.01	5.96	5.99	6.15	-	199.53	210.98	214.44	218.94	-
Men's and boys' work clothing .....	2326	5.90	5.93	5.98	6.07	-	207.09	218.22	208.70	217.91	-
Women's and misses' outerwear .....	233	6.18	6.20	6.34	6.40	-	208.88	215.76	225.70	227.20	-
Women's and misses' blouses and shirts .....	2331	5.52	5.52	5.74	5.81	-	187.13	196.51	204.92	208.00	-
Women's, juniors', and misses' dresses .....	2335	6.52	6.54	6.74	6.73	-	209.29	219.74	233.88	230.84	-
Women's and misses' suits and coats .....	2337	6.71	6.82	6.84	7.10	-	226.80	240.75	236.66	243.53	-
Women's and misses' outerwear, nec .....	2339	6.11	6.11	6.25	6.28	-	209.57	213.85	225.63	226.08	-
Women's and children's undergarments .....	234	6.19	6.20	6.39	6.46	-	225.32	233.12	242.18	241.60	-
Women's and children's underwear .....	2341	6.05	6.06	6.26	6.32	-	222.64	230.28	237.88	237.00	-
Brassieres, girdles, and allied garments .....	2342	7.00	6.97	7.15	7.23	-	239.40	246.04	265.27	265.34	-
Girls' and children's outerwear .....	236	5.84	5.89	6.09	6.20	-	204.40	216.16	219.85	225.06	-
Girls' and children's dresses and blouses .....	2361	5.78	5.77	5.95	6.09	-	198.25	204.84	205.87	212.54	-
Misc. apparel and accessories .....	238	6.40	6.43	6.49	6.57	-	233.60	239.84	235.59	241.78	-
Misc. fabricated textile products .....	239	7.82	7.94	7.82	7.96	-	292.47	308.07	294.81	301.68	-
Curtains and draperies .....	2391	6.47	6.60	6.75	6.74	-	234.21	243.54	240.98	250.05	-
House furnishings, nec .....	2392	6.55	6.61	6.84	6.87	-	241.04	249.86	251.03	249.38	-
Automotive and apparel trimmings .....	2396	11.22	11.49	10.61	10.91	-	436.46	463.05	416.97	432.04	-
Paper and allied products .....	26	12.25	12.25	12.56	12.56	12.66	520.63	529.20	537.57	536.31	543.11
Paper mills .....	262	15.07	15.00	15.33	15.34	-	690.21	679.50	692.92	687.23	-
Paperboard mills .....	263	15.18	15.31	15.49	15.51	-	687.65	696.61	695.50	693.30	-

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 nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Paper and allied products—Continued											
Paperboard containers and boxes .....	265	40.7	42.6	41.7	42.1	-	3.1	4.4	3.7	4.0	-
Corrugated and solid fiber boxes .....	2653	41.1	43.3	41.8	42.3	-	3.5	5.0	3.9	4.5	-
Sanitary food containers .....	2656	41.2	44.7	43.2	44.3	-	2.5	4.5	4.3	4.7	-
Folding paperboard boxes .....	2657	40.2	41.6	41.8	41.5	-	2.8	4.2	3.8	3.7	-
Misc. converted paper products .....	267	40.8	41.6	41.4	41.1	-	3.0	3.6	3.6	3.5	-
Paper, coated and laminated, nec .....	2672	42.3	43.0	42.2	41.8	-	3.3	3.6	3.3	3.2	-
Bags: plastics, laminated, and coated .....	2673	40.9	41.4	41.0	40.0	-	4.4	4.5	4.2	3.7	-
Envelopes .....	2677	40.6	40.9	40.6	40.3	-	2.7	2.9	2.5	2.5	-
Printing and publishing .....	27	37.4	37.6	37.7	37.4	37.1	2.5	2.7	2.7	2.5	-
Newspapers .....	271	32.7	33.1	32.6	32.4	-	1.2	1.4	.9	.9	-
Periodicals .....	272	37.5	37.4	37.2	37.6	-	2.8	2.8	2.3	2.7	-
Books .....	273	37.9	38.6	40.0	39.1	-	2.6	3.0	3.4	2.8	-
Book publishing .....	2731	38.5	39.5	40.1	39.2	-	2.4	2.7	2.7	2.3	-
Book printing .....	2732	37.1	37.5	39.8	39.0	-	2.8	3.4	4.3	3.4	-
Miscellaneous publishing .....	274	36.4	36.7	36.7	36.4	-	1.8	1.9	2.1	1.8	-
Commercial printing .....	275	38.9	39.0	39.2	38.8	-	3.0	3.2	3.3	3.0	-
Commercial printing, lithographic .....	2752	38.6	38.6	39.1	38.5	-	3.2	3.3	3.3	2.9	-
Commercial printing, nec .....	2759	39.2	39.7	39.3	39.5	-	2.6	3.0	3.1	3.2	-
Manifold business forms .....	276	40.5	40.7	41.2	40.7	-	2.2	2.7	3.4	2.9	-
Blankbooks and bookbinding .....	278	36.8	37.3	38.2	37.2	-	2.2	2.4	2.4	1.9	-
Printing trade services .....	279	38.8	39.2	39.1	38.9	-	3.7	3.9	3.8	3.8	-
Chemicals and allied products .....	28	42.6	42.4	42.7	42.5	42.4	4.2	4.2	4.2	4.3	-
Industrial inorganic chemicals .....	281	43.1	42.6	43.7	43.2	-	4.7	4.5	4.7	4.5	-
Industrial inorganic chemicals, nec .....	2819	42.9	42.1	43.8	43.2	-	4.6	4.2	4.7	4.4	-
Plastics materials and synthetics .....	282	43.3	42.3	42.0	42.1	-	5.2	4.9	4.4	4.6	-
Plastics materials and resins .....	2821	44.7	43.5	42.5	43.0	-	5.8	5.4	4.6	4.9	-
Organic fibers, noncellulosic .....	2824	41.9	41.3	41.4	41.3	-	4.3	4.4	4.1	4.1	-
Drugs .....	283	41.4	41.2	43.0	42.6	-	3.4	3.3	4.4	4.2	-
Pharmaceutical preparations .....	2834	41.4	41.1	43.1	42.6	-	3.3	3.1	4.4	4.1	-
Soap, cleaners, and toilet goods .....	284	39.7	40.8	40.6	40.2	-	2.2	2.7	2.7	2.8	-
Soap and other detergents .....	2841	40.9	42.2	41.7	41.6	-	2.7	4.3	4.3	4.5	-
Polishing, sanitation, and finishing preparations .....	2842,3	40.4	41.6	41.2	40.9	-	2.4	2.9	3.0	3.2	-
Toilet preparations .....	2844	38.7	39.5	39.6	38.9	-	1.8	1.8	1.4	1.5	-
Paints and allied products .....	285	41.2	42.6	41.3	41.1	-	3.1	4.2	3.1	2.8	-
Industrial organic chemicals .....	286	45.6	44.8	45.0	45.4	-	5.8	5.4	5.3	5.8	-
Cyclic crudes and intermediates .....	2865	44.3	43.6	44.4	45.8	-	5.5	4.8	4.6	5.3	-
Industrial organic chemicals, nec .....	2869	46.0	45.2	45.3	45.5	-	6.0	5.6	5.5	6.0	-
Agricultural chemicals .....	287	45.2	44.5	44.6	44.9	-	6.0	5.9	5.4	6.4	-
Miscellaneous chemical products .....	289	42.5	42.3	42.1	41.6	-	3.3	3.8	3.8	3.6	-
Petroleum and coal products .....	29	44.5	44.1	43.9	44.4	44.0	5.9	6.2	5.9	6.4	-
Petroleum refining .....	291	45.0	43.9	44.6	44.7	-	5.8	5.9	6.3	6.6	-
Asphalt paving and roofing materials .....	295	44.4	46.5	42.1	44.3	-	7.3	8.5	5.0	6.8	-
Rubber and misc. plastics products .....	30	40.1	41.4	40.5	40.6	40.8	2.7	3.7	3.1	3.2	-
Tires and inner tubes .....	301	41.3	43.5	41.5	41.7	-	3.5	5.1	3.3	4.0	-
Rubber and plastics footwear .....	302	38.7	41.0	43.6	41.6	-	1.5	2.2	3.7	2.8	-
Hose, belting, gaskets, and packing .....	305	41.2	43.0	41.0	40.7	-	2.6	3.8	2.8	2.7	-
Rubber and plastics hose and belting .....	3052	41.8	43.2	41.6	41.6	-	3.0	4.2	2.9	2.5	-
Fabricated rubber products, nec .....	306	39.2	41.3	39.8	39.9	-	1.9	3.3	2.2	2.3	-
Miscellaneous plastics products, nec .....	308	40.0	41.0	40.4	40.6	-	2.7	3.7	3.2	3.3	-
Leather and leather products .....	31	36.4	37.5	36.7	36.7	37.0	1.3	1.6	1.4	1.5	-
Leather tanning and finishing .....	311	40.7	41.3	41.7	42.5	-	3.1	3.5	3.8	4.6	-
Footwear, except rubber .....	314	35.9	36.8	35.2	35.1	-	.8	1.2	.9	.9	-
Men's footwear, except athletic .....	3143	35.7	36.6	35.8	35.8	-	.5	1.0	1.1	.9	-
Women's footwear, except athletic .....	3144	35.8	36.8	34.1	33.9	-	.9	1.3	.6	.9	-
Luggage .....	316	37.4	39.5	41.3	41.4	-	1.4	2.1	2.2	2.4	-
Handbags and personal leather goods .....	317	34.7	36.8	36.8	35.9	-	1.7	1.9	.5	.7	-
Transportation and public utilities .....		39.0	39.0	38.3	38.5	36.7	-	-	-	-	-
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	45.9	45.2	45.5	46.0	-	-	-	-	-	-

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 nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>p</sup>	May 1991 <sup>p</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>p</sup>	May 1991 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
<b>Paper and allied products—Continued</b>											
Paperboard containers and boxes .....	265	\$10.22	\$10.34	\$10.62	\$10.64	-	\$415.95	\$440.48	\$442.85	\$447.94	-
Corrugated and solid fiber boxes .....	2653	10.35	10.50	10.66	10.73	-	425.39	454.65	445.59	453.88	-
Sanitary food containers .....	2656	9.97	10.05	10.28	10.18	-	410.76	449.24	444.10	450.97	-
Folding paperboard boxes .....	2657	10.50	10.62	10.99	10.94	-	422.10	441.79	459.38	454.01	-
Misc. converted paper products .....	267	10.67	10.74	11.05	11.06	-	435.34	446.78	457.47	454.57	-
Paper, coated and laminated, nec .....	2672	12.02	12.04	12.49	12.54	-	508.45	517.72	527.08	524.17	-
Bags: plastics, laminated, and coated .....	2673	10.22	10.00	10.54	10.47	-	418.00	414.00	432.14	418.80	-
Envelopes .....	2677	9.86	10.00	10.31	10.32	-	400.32	409.00	418.59	415.90	-
Printing and publishing .....	27	11.12	11.17	11.36	11.35	\$11.40	415.89	419.99	428.27	424.49	\$422.94
Newspapers .....	271	11.16	11.17	11.33	11.36	-	364.93	369.73	369.36	368.06	-
Periodicals .....	272	11.95	11.93	11.97	12.05	-	448.13	446.18	445.28	453.08	-
Books .....	273	9.82	9.93	10.02	10.03	-	372.18	383.30	400.80	392.17	-
Book publishing .....	2731	9.56	9.63	9.77	9.76	-	368.06	380.39	391.78	382.59	-
Book printing .....	2732	10.17	10.34	10.34	10.37	-	377.31	387.75	411.53	404.43	-
Miscellaneous publishing .....	274	10.12	10.12	10.53	10.42	-	368.37	371.40	386.45	379.29	-
Commercial printing .....	275	11.35	11.43	11.66	11.60	-	441.52	445.77	457.07	450.08	-
Commercial printing, lithographic .....	2752	11.48	11.56	11.75	11.70	-	443.13	446.22	459.43	450.45	-
Commercial printing, nec .....	2759	11.03	11.12	11.40	11.33	-	432.38	441.46	448.02	447.54	-
Manifold business forms .....	276	11.49	11.57	12.03	11.98	-	465.35	470.90	495.64	487.59	-
Blankbooks and bookbinding .....	278	8.80	8.77	9.02	9.04	-	323.84	327.12	344.56	336.29	-
Printing trade services .....	279	13.80	13.73	13.77	13.79	-	535.44	538.22	538.41	536.43	-
Chemicals and allied products .....	28	13.55	13.47	13.85	13.97	14.03	577.23	571.13	591.40	593.73	594.87
Industrial inorganic chemicals .....	281	14.62	14.66	14.92	15.00	-	630.12	624.52	652.00	648.00	-
Industrial inorganic chemicals, nec .....	2819	14.70	14.71	15.25	15.35	-	630.63	619.29	667.95	663.12	-
Plastics materials and synthetics .....	282	14.13	13.88	14.50	14.58	-	611.83	587.12	609.00	613.82	-
Plastics materials and resins .....	2821	14.89	14.74	15.11	15.16	-	665.58	641.19	642.18	651.88	-
Organic fibers, noncellulosic .....	2824	13.65	13.27	13.92	14.08	-	571.94	548.05	576.29	581.50	-
Drugs .....	283	12.78	12.90	13.38	13.45	-	529.09	531.48	575.34	572.97	-
Pharmaceutical preparations .....	2834	12.76	12.92	13.39	13.50	-	528.26	531.01	577.11	575.10	-
Soap, cleaners, and toilet goods .....	284	11.50	11.58	12.00	12.07	-	456.55	472.46	487.20	485.21	-
Soap and other detergents .....	2841	15.19	15.49	15.40	15.45	-	621.27	653.68	642.18	642.72	-
Polishing, sanitation, and finishing preparations .....	2842,3	10.26	10.25	10.43	10.56	-	414.50	426.40	429.72	431.90	-
Toilet preparations .....	2844	9.95	9.93	10.59	10.58	-	385.07	392.24	419.36	411.56	-
Paints and allied products .....	285	11.94	12.06	12.48	12.41	-	491.93	513.76	515.42	510.05	-
Industrial organic chemicals .....	286	16.20	15.87	16.15	16.44	-	738.72	710.98	726.75	746.38	-
Cyclic crudes and intermediates .....	2865	15.87	15.82	15.82	16.12	-	703.04	689.75	702.41	735.07	-
Industrial organic chemicals, nec .....	2869	16.47	16.06	16.42	16.69	-	757.62	725.91	743.83	759.40	-
Agricultural chemicals .....	287	13.50	13.45	13.73	13.87	-	610.20	598.53	612.36	622.76	-
Miscellaneous chemical products .....	289	12.20	12.28	12.39	12.55	-	518.50	519.44	521.62	522.08	-
Petroleum and coal products .....	29	16.31	16.13	17.06	17.00	16.66	725.80	711.33	748.93	754.80	733.04
Petroleum refining .....	291	17.75	17.61	18.54	18.53	-	798.75	773.08	826.88	828.29	-
Asphalt paving and roofing materials .....	295	12.28	12.64	12.26	12.57	-	545.23	587.76	516.15	556.85	-
Rubber and misc. plastics products .....	30	9.64	9.72	10.01	10.03	10.05	386.56	402.41	405.41	407.22	410.04
Tires and inner tubes .....	301	15.07	15.31	15.78	15.88	-	622.39	665.99	654.87	662.20	-
Rubber and plastics footwear .....	302	6.64	6.59	6.69	6.80	-	256.97	270.19	291.68	282.88	-
Hose, belting, gaskets, and packing .....	305	9.57	9.65	9.87	9.98	-	394.28	414.95	404.67	406.19	-
Rubber and plastics hose and belting .....	3052	9.86	9.92	10.05	10.21	-	412.15	428.54	418.08	424.74	-
Fabricated rubber products, nec .....	306	9.21	9.31	9.52	9.54	-	361.03	384.50	378.90	380.65	-
Miscellaneous plastics products, nec .....	308	9.05	9.12	9.37	9.40	-	362.00	373.92	378.55	381.64	-
Leather and leather products .....	31	6.93	6.91	7.11	7.17	7.16	252.25	259.13	260.94	263.14	264.92
Leather tanning and finishing .....	311	9.00	8.96	9.25	9.52	-	366.30	370.05	385.73	404.60	-
Footwear, except rubber .....	314	6.61	6.60	6.79	6.80	-	237.30	242.88	239.01	238.68	-
Men's footwear, except athletic .....	3143	7.09	7.09	7.34	7.28	-	253.11	259.49	262.77	260.62	-
Women's footwear, except athletic .....	3144	6.14	6.14	6.28	6.36	-	219.81	225.95	214.15	215.60	-
Luggage .....	316	7.06	7.03	6.87	7.10	-	264.04	277.69	283.73	293.94	-
Handbags and personal leather goods .....	317	6.10	6.18	6.19	6.20	-	211.67	226.19	227.79	222.58	-
<b>Transportation and public utilities .....</b>		<b>12.96</b>	<b>12.83</b>	<b>13.15</b>	<b>13.20</b>	<b>13.17</b>	<b>505.44</b>	<b>500.37</b>	<b>503.65</b>	<b>508.20</b>	<b>509.68</b>
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	16.22	16.06	15.48	15.60	-	744.50	725.91	704.34	717.60	-

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 nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Transportation and public utilities—Continued</b>											
Local and interurban passenger transit .....	41	32.9	33.8	32.6	32.4	-	-	-	-	-	-
Local and suburban transportation .....	411	38.7	38.2	37.6	37.4	-	-	-	-	-	-
Intercity and rural bus transportation .....	413	39.5	39.0	37.3	38.6	-	-	-	-	-	-
Trucking and warehousing .....	42	38.1	38.6	37.4	37.7	-	-	-	-	-	-
Trucking and courier services, except air .....	421	38.0	38.5	37.3	37.7	-	-	-	-	-	-
Public warehousing and storage .....	422	38.9	39.0	38.9	38.9	-	-	-	-	-	-
Pipelines, except natural gas .....	46	41.8	41.0	41.9	41.5	-	-	-	-	-	-
Transportation services:											
Passenger transportation arrangement .....	472	35.9	35.6	35.5	35.8	-	-	-	-	-	-
Travel agencies .....	4724	35.8	35.5	35.8	36.2	-	-	-	-	-	-
Freight transportation arrangement .....	473	37.7	37.4	37.6	36.8	-	-	-	-	-	-
Communications .....	48	39.3	39.1	38.8	38.9	-	-	-	-	-	-
Telephone communications .....	481	40.8	40.6	40.3	40.4	-	-	-	-	-	-
Radio and television broadcasting .....	483	35.1	34.5	34.2	34.1	-	-	-	-	-	-
Cable and other pay television services .....	484	38.2	38.2	38.1	38.4	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	41.7	41.7	41.3	41.7	-	-	-	-	-	-
Electric services .....	491	41.9	41.8	41.1	42.1	-	-	-	-	-	-
Gas production and distribution .....	492	41.9	41.7	41.8	41.9	-	-	-	-	-	-
Combination utility services .....	493	41.8	41.7	41.4	41.5	-	-	-	-	-	-
Sanitary services .....	495	41.3	42.1	41.5	41.6	-	-	-	-	-	-
<b>Wholesale trade .....</b>		<b>38.1</b>	<b>38.0</b>	<b>37.9</b>	<b>37.9</b>	<b>38.0</b>	-	-	-	-	-
Durable goods .....	50	38.5	38.5	38.4	38.4	-	-	-	-	-	-
Motor vehicles, parts, and supplies .....	501	37.9	38.0	37.6	37.5	-	-	-	-	-	-
Furniture and home furnishings .....	502	37.0	37.0	36.3	36.4	-	-	-	-	-	-
Lumber and other construction materials .....	503	39.5	39.8	39.0	39.7	-	-	-	-	-	-
Professional and commercial equipment .....	504	38.8	38.7	39.1	38.9	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	39.7	40.0	39.5	39.6	-	-	-	-	-	-
Electrical goods .....	506	38.5	38.4	38.5	38.3	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	38.5	38.4	38.3	38.5	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	39.0	38.8	38.8	38.9	-	-	-	-	-	-
Misc. wholesale trade durable goods .....	509	36.8	37.1	37.3	37.0	-	-	-	-	-	-
Nondurable goods .....	51	37.4	37.4	37.1	37.3	-	-	-	-	-	-
Paper and paper products .....	511	37.4	37.6	36.9	36.8	-	-	-	-	-	-
Drugs, proprietaries, and sundries .....	512	37.3	37.1	36.6	36.9	-	-	-	-	-	-
Apparel, piece goods, and notions .....	513	36.2	36.3	36.7	36.4	-	-	-	-	-	-
Groceries and related products .....	514	37.9	37.8	37.7	37.9	-	-	-	-	-	-
Chemicals and allied products .....	516	39.9	40.0	39.7	39.5	-	-	-	-	-	-
Petroleum and petroleum products .....	517	38.5	37.9	37.6	37.6	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	36.5	36.4	36.2	36.4	-	-	-	-	-	-
Misc. wholesale trade nondurable goods .....	519	37.0	37.0	36.5	37.0	-	-	-	-	-	-
<b>Retail trade .....</b>		<b>28.9</b>	<b>28.7</b>	<b>28.1</b>	<b>28.3</b>	<b>28.6</b>	-	-	-	-	-
Building materials and garden supplies .....	52	36.1	36.2	35.2	35.8	-	-	-	-	-	-
Lumber and other building materials .....	521	37.8	37.9	36.9	37.6	-	-	-	-	-	-
Hardware stores .....	525	32.1	32.0	31.8	32.0	-	-	-	-	-	-
General merchandise stores .....	53	28.0	28.2	27.5	28.1	-	-	-	-	-	-
Department stores .....	531	27.8	28.1	27.4	28.0	-	-	-	-	-	-
Variety stores .....	533	29.0	28.3	28.0	28.2	-	-	-	-	-	-
Misc. general merchandise stores .....	539	28.6	28.4	28.5	28.8	-	-	-	-	-	-
Food stores .....	54	30.1	29.7	28.8	29.0	-	-	-	-	-	-
Grocery stores .....	541	30.2	29.8	28.9	29.1	-	-	-	-	-	-
Retail bakeries .....	546	29.8	28.8	28.5	28.2	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Transportation and public utilities—Continued</b>											
Local and interurban passenger transit .....	41	\$9.11	\$9.02	\$9.30	\$9.36	-	\$299.72	\$304.88	\$303.18	\$303.26	-
Local and suburban transportation .....	411	10.01	9.95	9.98	10.13	-	387.39	380.09	375.25	378.86	-
Intercity and rural bus transportation .....	413	11.53	11.34	12.59	12.46	-	455.44	442.26	469.61	480.96	-
Trucking and warehousing .....	42	11.73	11.75	11.78	11.80	-	446.91	453.55	440.57	444.86	-
Trucking and courier services, except air .....	421	11.89	11.90	11.93	11.95	-	451.82	458.15	444.99	450.52	-
Public warehousing and storage .....	422	9.58	9.54	9.77	9.78	-	372.66	372.06	380.05	380.44	-
Pipelines, except natural gas .....	46	17.27	17.06	17.69	17.89	-	721.89	699.46	741.21	742.44	-
Transportation services:											
Passenger transportation arrangement .....	472	9.13	9.12	9.33	9.47	-	327.77	324.67	331.22	339.03	-
Travel agencies .....	4724	9.20	9.12	9.49	9.58	-	329.36	323.76	339.74	346.80	-
Freight transportation arrangement .....	473	12.22	12.11	12.49	12.51	-	460.69	452.91	469.62	460.37	-
Communications .....	48	13.34	13.38	13.77	13.88	-	524.26	523.16	534.28	539.93	-
Telephone communications .....	481	13.96	14.01	14.42	14.48	-	569.57	568.81	581.13	584.99	-
Radio and television broadcasting .....	483	12.49	12.50	13.13	13.44	-	438.40	431.25	449.05	458.30	-
Cable and other pay television services .....	484	10.43	10.47	10.63	10.69	-	398.43	399.95	405.00	410.50	-
Electric, gas, and sanitary services .....	49	15.11	14.95	15.73	15.68	-	630.09	623.42	649.65	653.86	-
Electric services .....	491	15.84	15.70	16.36	16.35	-	663.70	656.26	672.40	688.34	-
Gas production and distribution .....	492	14.09	13.98	14.68	14.71	-	590.37	582.97	613.62	616.35	-
Combination utility services .....	493	16.93	16.76	18.45	18.21	-	707.67	698.89	763.83	755.72	-
Sanitary services .....	495	11.55	11.44	11.69	11.70	-	477.02	481.62	485.14	486.72	-
<b>Wholesale trade .....</b>		<b>10.77</b>	<b>10.72</b>	<b>11.06</b>	<b>11.12</b>	<b>\$11.13</b>	<b>410.34</b>	<b>407.36</b>	<b>419.17</b>	<b>421.45</b>	<b>\$422.94</b>
Durable goods .....	50	11.11	11.05	11.43	11.50	-	427.74	425.43	438.91	441.60	-
Motor vehicles, parts, and supplies .....	501	9.96	9.89	10.15	10.25	-	377.48	375.82	381.64	384.38	-
Furniture and home furnishings .....	502	10.16	10.10	10.32	10.27	-	375.92	373.70	374.62	373.83	-
Lumber and other construction materials .....	503	10.44	10.38	10.69	10.73	-	412.38	413.12	416.91	425.98	-
Professional and commercial equipment .....	504	12.99	13.03	13.62	13.76	-	504.01	504.26	532.54	535.26	-
Metals and minerals, except petroleum .....	505	11.27	11.17	11.58	11.63	-	447.42	446.80	457.41	460.55	-
Electrical goods .....	506	11.36	11.23	11.55	11.67	-	437.36	431.23	444.68	446.96	-
Hardware, plumbing, and heating equipment .....	507	10.51	10.49	10.69	10.76	-	404.64	402.82	409.43	414.26	-
Machinery, equipment, and supplies .....	508	11.15	11.04	11.36	11.39	-	434.85	428.35	440.77	443.07	-
Misc. wholesale trade durable goods .....	509	8.74	8.73	8.94	8.97	-	321.63	323.88	333.46	331.89	-
Nondurable goods .....	51	10.27	10.24	10.55	10.59	-	384.10	382.98	391.41	395.01	-
Paper and paper products .....	511	10.95	10.86	11.00	11.11	-	409.53	408.34	405.90	408.85	-
Drugs, proprietaries, and sundries .....	512	11.80	11.73	12.48	12.45	-	440.14	435.18	456.77	459.41	-
Apparel, piece goods, and notions .....	513	10.18	10.10	10.29	10.35	-	368.52	366.63	377.64	376.74	-
Groceries and related products .....	514	10.44	10.43	10.72	10.77	-	395.68	394.25	404.14	408.18	-
Chemicals and allied products .....	516	12.61	12.44	12.49	12.55	-	503.14	497.60	495.85	495.73	-
Petroleum and petroleum products .....	517	10.25	10.19	10.25	10.28	-	394.63	386.20	385.40	386.53	-
Beer, wine, and distilled beverages .....	518	11.99	12.00	12.50	12.66	-	437.64	436.80	452.50	460.82	-
Misc. wholesale trade nondurable goods .....	519	8.50	8.51	8.89	8.91	-	314.50	314.87	324.49	329.67	-
<b>Retail trade .....</b>		<b>6.74</b>	<b>6.73</b>	<b>6.91</b>	<b>6.98</b>	<b>6.98</b>	<b>194.79</b>	<b>193.15</b>	<b>194.17</b>	<b>197.53</b>	<b>199.63</b>
Building materials and garden supplies .....	52	7.94	7.92	8.08	8.07	-	286.63	286.70	284.42	288.91	-
Lumber and other building materials .....	521	8.30	8.28	8.41	8.44	-	313.74	313.81	310.33	317.34	-
Hardware stores .....	525	6.70	6.69	6.95	6.99	-	215.07	214.08	221.01	223.68	-
General merchandise stores .....	53	6.84	6.83	6.98	7.05	-	191.52	192.61	191.95	198.11	-
Department stores .....	531	7.01	6.98	7.12	7.17	-	194.88	196.14	195.09	200.76	-
Variety stores .....	533	5.47	5.47	5.68	5.78	-	158.63	154.80	159.04	163.00	-
Misc. general merchandise stores .....	539	6.27	6.31	6.69	6.84	-	179.32	179.20	190.67	196.99	-
Food stores .....	54	7.34	7.35	7.52	7.60	-	220.93	218.30	216.58	220.40	-
Grocery stores .....	541	7.43	7.43	7.61	7.68	-	224.39	221.41	219.93	223.49	-
Retail bakeries .....	546	6.33	6.33	6.44	6.51	-	188.63	182.30	183.54	183.58	-

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 nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Retail trade—Continued</b>											
Automotive dealers and service stations .....	55	36.2	35.9	35.7	35.8	-	-	-	-	-	-
New and used car dealers .....	551	37.2	37.1	37.0	37.1	-	-	-	-	-	-
Auto and home supply stores .....	553	38.3	37.8	37.5	37.9	-	-	-	-	-	-
Gasoline service stations .....	554	33.8	33.6	33.2	33.0	-	-	-	-	-	-
Automotive dealers, nec .....	559	36.2	34.8	34.5	35.3	-	-	-	-	-	-
Apparel and accessory stores .....	56	27.4	26.8	26.4	26.6	-	-	-	-	-	-
Men's and boys' clothing stores .....	561	28.6	28.1	27.5	27.8	-	-	-	-	-	-
Women's clothing stores .....	562	24.3	24.0	23.6	24.0	-	-	-	-	-	-
Family clothing stores .....	565	27.9	27.2	26.9	27.4	-	-	-	-	-	-
Shoe stores .....	566	31.1	30.0	30.2	30.1	-	-	-	-	-	-
Furniture and home furnishings stores .....	57	32.8	32.8	32.4	32.3	-	-	-	-	-	-
Furniture and home furnishings stores .....	571	33.4	33.3	32.9	32.8	-	-	-	-	-	-
Household appliance stores .....	572	33.4	33.4	32.5	32.8	-	-	-	-	-	-
Radio, television, and computer stores .....	573	31.8	31.7	31.5	31.5	-	-	-	-	-	-
Radio, television, and electronic stores .....	5731	31.8	31.5	31.2	30.9	-	-	-	-	-	-
Record and prerecorded tape stores .....	5735	25.8	26.1	25.1	25.3	-	-	-	-	-	-
Eating and drinking places <sup>4</sup> .....	58	25.4	25.2	24.6	24.6	-	-	-	-	-	-
Miscellaneous retail establishments .....	59	29.5	29.6	29.0	29.2	-	-	-	-	-	-
Drug stores and proprietary stores .....	591	27.2	27.1	27.4	27.3	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	28.1	27.9	27.1	27.4	-	-	-	-	-	-
Nonstore retailers .....	596	32.1	32.9	32.9	33.1	-	-	-	-	-	-
Fuel dealers .....	598	37.6	36.9	37.9	37.6	-	-	-	-	-	-
Retail stores, nec .....	599	31.8	32.8	30.7	30.8	-	-	-	-	-	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>36.1</b>	<b>35.6</b>	<b>35.6</b>	<b>35.6</b>	<b>35.6</b>	-	-	-	-	-
Depository institutions .....	60	36.0	35.2	35.2	35.2	-	-	-	-	-	-
Commercial banks .....	602	35.9	35.1	34.9	35.0	-	-	-	-	-	-
Credit unions .....	606	35.9	35.4	35.6	35.4	-	-	-	-	-	-
Nondepository institutions .....	61	38.5	37.5	37.6	37.7	-	-	-	-	-	-
Personal credit institutions .....	614	38.5	37.9	37.4	37.7	-	-	-	-	-	-
Security and commodity brokers: Security and commodity services .....	628	38.0	37.4	37.3	37.4	-	-	-	-	-	-
Insurance carriers .....	63	37.6	37.2	37.5	37.2	-	-	-	-	-	-
Life insurance .....	631	37.4	36.9	37.0	36.5	-	-	-	-	-	-
Medical service and health insurance .....	632	38.1	38.0	38.5	38.2	-	-	-	-	-	-
Fire, marine, and casualty insurance .....	633	37.2	37.0	37.3	37.2	-	-	-	-	-	-
<b>Services</b> .....		<b>32.6</b>	<b>32.3</b>	<b>32.3</b>	<b>32.3</b>	<b>32.3</b>	-	-	-	-	-
Hotels and other lodging places: Hotels and motels <sup>4</sup> .....	701	31.2	30.8	29.9	30.1	-	-	-	-	-	-
Personal services: Laundry, cleaning, and garment services .....	721	34.2	34.5	33.6	34.2	-	-	-	-	-	-
Beauty shops <sup>4</sup> .....	723	29.8	29.4	29.7	29.7	-	-	-	-	-	-
Miscellaneous personal services .....	729	28.8	25.6	27.9	29.1	-	-	-	-	-	-
Business services .....	73	33.0	33.1	33.1	33.0	-	-	-	-	-	-
Advertising .....	731	37.5	36.9	36.1	36.2	-	-	-	-	-	-
Services to buildings .....	734	28.8	28.9	28.3	28.4	-	-	-	-	-	-
Personnel supply services: Help supply services .....	7363	30.1	30.8	31.0	30.7	-	-	-	-	-	-
Computer and data processing services .....	737	38.6	38.0	37.9	37.8	-	-	-	-	-	-
Computer programming services .....	7371	38.9	38.3	38.5	38.5	-	-	-	-	-	-
Miscellaneous business services .....	738	34.3	34.3	34.0	34.0	-	-	-	-	-	-
Detective and armored car services .....	7381	34.1	34.0	34.0	33.7	-	-	-	-	-	-

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 nonfarm payrolls by detailed industry—Continued**

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Retail trade—Continued</b>											
Automotive dealers and service stations .....	55	\$8.94	\$8.88	\$8.96	\$9.07	-	\$323.63	\$318.79	\$319.87	\$324.71	-
New and used car dealers .....	551	11.11	11.00	11.01	11.16	-	413.29	408.10	407.37	414.04	-
Auto and home supply stores .....	553	7.76	7.76	7.96	8.00	-	297.21	293.33	298.50	303.20	-
Gasoline service stations .....	554	6.19	6.22	6.31	6.41	-	209.22	208.99	209.49	211.53	-
Automotive dealers, nec .....	559	10.95	10.78	10.33	10.52	-	396.39	375.14	356.39	371.36	-
Apparel and accessory stores .....	56	6.22	6.24	6.51	6.60	-	170.43	167.23	171.86	175.56	-
Men's and boys' clothing stores .....	561	7.64	7.70	7.81	8.09	-	218.50	216.37	214.78	224.90	-
Women's clothing stores .....	562	5.97	5.95	6.29	6.36	-	145.07	142.80	148.44	152.64	-
Family clothing stores .....	565	6.10	6.11	6.41	6.49	-	170.19	166.19	172.43	177.83	-
Shoe stores .....	566	6.14	6.18	6.46	6.56	-	190.95	185.40	195.09	197.46	-
Furniture and home furnishings stores .....	57	8.53	8.51	8.83	8.92	-	279.78	279.13	286.09	288.12	-
Furniture and home furnishings stores .....	571	8.40	8.37	8.60	8.68	-	280.56	278.72	282.94	284.70	-
Household appliance stores .....	572	8.62	8.69	9.22	9.30	-	287.91	290.25	299.65	305.04	-
Radio, television, and computer stores .....	573	8.72	8.69	9.10	9.23	-	277.30	275.47	286.65	290.75	-
Radio, television, and electronic stores .....	5731	8.53	8.66	9.10	9.19	-	271.25	272.79	283.92	283.97	-
Record and prerecorded tape stores .....	5735	5.13	5.15	5.59	5.71	-	132.35	134.42	140.31	144.46	-
Eating and drinking places <sup>4</sup> .....	58	4.93	4.96	5.08	5.17	-	125.22	124.99	124.97	127.18	-
Miscellaneous retail establishments .....	59	7.09	7.09	7.40	7.43	-	209.16	209.86	214.60	216.96	-
Drug stores and proprietary stores .....	591	6.70	6.72	7.09	7.17	-	182.24	182.11	194.27	195.74	-
Miscellaneous shopping goods stores .....	594	6.64	6.65	6.97	7.00	-	186.58	185.54	188.89	191.80	-
Nonstore retailers .....	596	7.97	8.00	8.20	8.25	-	255.84	263.20	269.78	273.08	-
Fuel dealers .....	598	9.81	9.70	10.13	10.08	-	368.86	357.93	383.93	379.01	-
Retail stores, nec .....	599	7.33	7.26	7.54	7.60	-	233.09	238.13	231.48	234.08	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		9.96	9.89	10.33	10.37	\$10.38	359.56	352.08	367.75	369.17	\$369.53
Depository institutions .....	60	8.43	8.40	8.73	8.74	-	303.48	295.68	307.30	307.65	-
Commercial banks .....	602	8.11	8.09	8.41	8.40	-	291.15	283.96	293.51	294.00	-
Credit unions .....	606	8.14	8.07	8.41	8.40	-	292.23	285.68	299.40	297.36	-
Nondepository institutions .....	61	10.33	10.26	10.69	10.83	-	397.71	384.75	401.94	408.29	-
Personal credit institutions .....	614	9.22	9.11	9.71	9.73	-	354.97	345.27	363.15	366.82	-
Security and commodity brokers:											
Security and commodity services .....	628	13.01	12.84	14.02	13.99	-	494.38	480.22	522.95	523.23	-
Insurance carriers .....	63	11.17	11.09	11.59	11.69	-	419.99	412.55	434.63	434.87	-
Life insurance .....	631	10.36	10.35	10.66	10.85	-	387.46	381.92	394.42	396.03	-
Medical service and health insurance .....	632	10.81	10.64	11.08	11.03	-	411.86	404.32	426.58	421.35	-
Fire, marine, and casualty insurance .....	633	11.94	11.91	12.50	12.58	-	444.17	440.67	466.25	467.98	-
<b>Services</b> .....		9.79	9.75	10.16	10.19	10.18	319.15	314.93	328.17	329.14	328.81
Hotels and other lodging places:											
Hotels and motels <sup>4</sup> .....	701	6.97	6.99	7.18	7.24	-	217.46	215.29	214.68	217.92	-
Personal services:											
Laundry, cleaning, and garment services .....	721	6.80	6.81	6.94	7.02	-	232.56	234.95	233.18	240.08	-
Beauty shops <sup>4</sup> .....	723	7.13	7.16	7.21	7.28	-	212.47	210.50	214.14	216.22	-
Miscellaneous personal services .....	729	6.79	7.24	6.80	6.95	-	195.55	185.34	189.72	202.25	-
Business services .....	73	9.52	9.46	9.71	9.74	-	314.16	313.13	321.40	321.42	-
Advertising .....	731	13.75	13.39	13.70	13.65	-	515.63	494.09	494.57	494.13	-
Services to buildings .....	734	7.18	7.22	7.24	7.20	-	206.78	208.66	204.89	204.48	-
Personnel supply services:											
Help supply services .....	7363	8.05	8.08	8.35	8.36	-	242.31	248.86	258.85	256.65	-
Computer and data processing services .....	737	15.10	15.01	15.42	15.45	-	582.86	570.38	584.42	584.01	-
Computer programming services .....	7371	17.57	17.65	17.74	17.55	-	683.47	676.00	682.99	675.68	-
Miscellaneous business services .....	738	7.93	7.95	8.07	8.16	-	272.00	272.69	274.38	277.44	-
Detective and armored car services .....	7381	6.20	6.20	6.27	6.36	-	211.42	210.80	213.18	214.33	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Services—Continued</b>											
Auto repair, services, and parking .....	75	36.5	36.6	36.1	36.0	-	-	-	-	-	-
Automotive repair shops .....	753	38.1	38.2	37.9	37.8	-	-	-	-	-	-
Miscellaneous repair services .....	76	37.5	38.1	37.7	37.8	-	-	-	-	-	-
Motion pictures .....	78	27.6	26.1	27.8	27.3	-	-	-	-	-	-
Motion picture production and services .....	781	36.2	34.3	36.8	36.4	-	-	-	-	-	-
Amusement and recreation services .....	79	27.2	26.4	26.0	26.1	-	-	-	-	-	-
Misc. amusement and recreation services .....	799	26.9	25.6	24.7	25.0	-	-	-	-	-	-
Physical fitness facilities .....	7991	18.4	18.5	17.7	17.4	-	-	-	-	-	-
Membership sports and recreation clubs .....	7997	29.5	29.3	28.1	28.4	-	-	-	-	-	-
Health services .....	80	32.5	32.2	32.4	32.4	-	-	-	-	-	-
Offices and clinics of medical doctors .....	801	31.7	31.4	31.8	32.0	-	-	-	-	-	-
Offices and clinics of dentists .....	802	28.6	28.2	28.2	28.3	-	-	-	-	-	-
Offices and clinics of other health practitioners .....	804	29.8	29.5	29.4	29.3	-	-	-	-	-	-
Nursing and personal care facilities .....	805	32.2	31.6	31.8	31.8	-	-	-	-	-	-
Intermediate care facilities .....	8052	31.0	30.6	31.0	30.9	-	-	-	-	-	-
Hospitals .....	806	34.1	34.0	34.0	34.2	-	-	-	-	-	-
Home health care services .....	808	25.5	25.0	25.8	25.9	-	-	-	-	-	-
Legal services .....	81	35.3	34.5	34.8	34.7	-	-	-	-	-	-
Social services:											
Child day care services .....	835	29.5	29.7	29.7	29.6	-	-	-	-	-	-
Engineering and management services .....	87	38.0	37.0	37.6	37.7	-	-	-	-	-	-
Engineering and architectural services .....	871	39.0	38.9	38.7	38.8	-	-	-	-	-	-
Engineering services .....	8711	39.3	39.3	39.0	39.1	-	-	-	-	-	-
Architectural services .....	8712	38.1	37.4	37.8	37.8	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	872	40.5	36.9	40.1	40.6	-	-	-	-	-	-
Research and testing services .....	873	36.3	36.0	36.1	36.1	-	-	-	-	-	-
Management and public relations .....	874	35.7	35.3	35.0	34.9	-	-	-	-	-	-
Services, nec .....	89	38.0	37.1	35.4	35.2	-	-	-	-	-	-

See footnotes at end of table.



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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>p</sup>	May 1991 <sup>p</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>p</sup>	May 1991 <sup>p</sup>
<b>Services—Continued</b>											
Auto repair, services, and parking .....	75	\$8.74	\$8.76	\$8.95	\$8.99	-	\$319.01	\$320.62	\$323.10	\$323.64	-
Automotive repair shops .....	753	9.66	9.67	9.78	9.81	-	368.05	369.39	370.66	370.82	-
Miscellaneous repair services .....	76	10.32	10.28	10.57	10.59	-	387.00	391.67	398.49	400.30	-
Motion pictures .....	78	10.47	10.42	11.80	11.76	-	288.97	271.96	328.04	321.05	-
Motion picture production and services .....	781	16.33	16.12	18.20	18.02	-	591.15	552.92	669.76	655.93	-
Amusement and recreation services .....	79	8.29	8.26	8.63	8.66	-	225.49	218.06	224.38	226.03	-
Misc. amusement and recreation services .....	799	7.53	7.47	7.64	7.62	-	202.56	191.23	188.71	190.50	-
Physical fitness facilities .....	7991	8.01	7.82	7.81	7.85	-	147.38	144.67	138.24	136.59	-
Membership sports and recreation clubs .....	7997	7.44	7.31	7.79	7.72	-	219.48	214.18	218.90	219.25	-
Health services .....	80	10.29	10.32	10.75	10.83	-	334.43	332.30	348.30	350.89	-
Offices and clinics of medical doctors .....	801	10.45	10.44	11.04	11.16	-	331.27	327.82	351.07	357.12	-
Offices and clinics of dentists .....	802	10.07	10.08	10.50	10.55	-	288.00	284.26	296.10	298.57	-
Offices and clinics of other health practitioners .....	804	8.96	8.87	9.37	9.36	-	267.01	261.67	275.48	274.25	-
Nursing and personal care facilities .....	805	7.17	7.21	7.46	7.52	-	230.87	227.84	237.23	239.14	-
Intermediate care facilities .....	8052	6.50	6.49	6.81	6.92	-	201.50	198.59	211.11	213.83	-
Hospitals .....	806	11.66	11.69	12.18	12.27	-	397.61	397.46	414.12	419.63	-
Home health care services .....	808	8.59	8.61	9.11	9.14	-	219.05	215.25	235.04	236.73	-
Legal services .....	81	14.19	13.99	14.49	14.47	-	500.91	482.66	504.25	502.11	-
Social services:											
Child day care services .....	835	6.05	5.98	6.22	6.28	-	178.48	177.61	184.73	185.89	-
Engineering and management services .....	87	13.50	13.45	13.96	13.95	-	513.00	497.65	524.90	525.92	-
Engineering and architectural services .....	871	14.77	14.64	15.42	15.38	-	576.03	569.50	596.75	596.74	-
Engineering services .....	8711	15.31	15.14	15.96	15.91	-	601.68	595.00	622.44	622.08	-
Architectural services .....	8712	13.72	13.69	14.38	14.43	-	522.73	512.01	543.56	545.45	-
Accounting, auditing, and bookkeeping .....	872	12.00	12.05	12.27	12.23	-	486.00	444.65	492.03	496.54	-
Research and testing services .....	873	14.05	13.86	14.67	14.81	-	510.02	498.96	529.59	534.64	-
Management and public relations .....	874	12.64	12.48	12.90	12.82	-	451.25	440.54	451.50	447.42	-
Services, nec .....	89	13.71	13.55	14.38	14.79	-	520.98	502.71	509.05	520.61	-

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

<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> Excludes nonoffice commissioned real estate sales agents.

- Data not available.

<sup>p</sup> = preliminary.

NOTE: Data in this table have been revised to reflect March 1990 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 (SIC 3721) and Guided Missiles and Space Vehicles (SIC 3761) Manufacturing

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

Because of special circumstances in the aerospace

industry, BLS has calculated average hourly earnings series for SIC 3721 and SIC 3761 which include lump-sum payments. These series, beginning in October 1983, the effective date of the first aerospace bargaining agreement using lump-sum payments, were published in the June 1988 issue of *Employment and Earnings*. Current and year earlier data are presented in table C-2a along with the average hourly earnings series produced as part of the Current Employment Statistics program. An explanation of the methodology used to derive these series appears in the Explanatory Notes of this publication.

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

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	Mar. 1990	Apr. 1990	Mar. 1991	Apr. 1991 <sup>p</sup>	Mar. 1990	Apr. 1990	Mar. 1991	Apr. 1991 <sup>p</sup>
Average hourly earnings, excluding lump-sum payments .....	\$15.47	\$15.50	\$16.29	\$16.47	\$14.56	\$14.54	\$15.04	\$14.98
Average hourly earnings, including lump-sum payments .....	16.17	16.22	16.75	16.93	15.04	15.03	15.38	15.32

<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. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Manufacturing</b> .....	<b>\$10.37</b>	<b>\$10.35</b>	<b>\$10.64</b>	<b>\$10.68</b>	<b>\$10.72</b>
<b>Durable goods</b> .....	<b>10.84</b>	<b>10.84</b>	<b>11.17</b>	<b>11.22</b>	<b>11.28</b>
Lumber and wood products .....	8.72	8.70	8.78	8.84	(?)
Furniture and fixtures .....	8.22	8.22	8.48	8.49	(?)
Stone, clay, and glass products .....	10.56	10.49	10.70	10.76	(?)
Primary metal industries .....	12.27	12.11	12.56	12.61	(?)
Fabricated metal products .....	10.33	10.33	10.68	10.72	(?)
Industrial machinery and equipment .....	11.17	11.19	11.62	11.64	(?)
Electronic and other electrical equipment .....	9.89	9.85	10.18	10.28	(?)
Transportation equipment .....	13.41	13.42	13.92	14.00	(?)
Instruments and related products .....	10.91	10.86	11.28	11.30	(?)
Miscellaneous manufacturing .....	8.37	8.33	8.51	8.52	(?)
<b>Nondurable goods</b> .....	<b>9.72</b>	<b>9.67</b>	<b>9.95</b>	<b>9.98</b>	<b>\$9.98</b>
Food and kindred products .....	9.17	9.14	9.37	9.39	(?)
Tobacco products .....	16.60	16.68	16.99	17.19	(?)
Textile mill products .....	7.66	7.64	7.84	7.86	(?)
Apparel and other textile products .....	6.45	6.45	6.49	6.58	(?)
Paper and allied products .....	11.66	11.63	11.96	11.95	(?)
Printing and publishing .....	10.75	10.78	10.97	10.99	(?)
Chemicals and allied products .....	12.91	12.83	13.19	13.30	(?)
Petroleum and coal products .....	15.30 *	15.07	16.00	15.85	(?)
Rubber and misc. plastics products .....	9.32	9.30	9.65	9.65	(?)
Leather and leather products .....	6.80	6.77	6.98	7.03	(?)

<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 1990 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 nonfarm payrolls by major industry, in current and constant (1982) dollars**

Industry	Average hourly earnings					Average weekly earnings				
	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>	Apr. 1990	May 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	May 1991 <sup>P</sup>
<b>Total private:</b>										
Current dollars .....	\$9.96	\$9.96	\$10.24	\$10.29	\$10.30	\$341.63	\$342.62	\$348.16	\$350.89	\$352.26
Constant (1982) dollars .....	7.58	7.57	7.46	7.48	( <sup>2</sup> )	259.99	260.35	253.58	255.01	( <sup>2</sup> )
<b>Mining:</b>										
Current dollars .....	13.70	13.60	14.09	14.09	\$13.99	590.47	587.52	619.96	617.14	\$614.16
Constant (1982) dollars .....	10.43	10.33	10.26	10.24	( <sup>2</sup> )	449.37	446.44	451.54	448.50	( <sup>2</sup> )
<b>Construction:</b>										
Current dollars .....	13.63	13.73	13.93	13.99	\$13.97	508.40	525.86	518.20	528.82	\$535.05
Constant (1982) dollars .....	10.37	10.43	10.15	10.17	( <sup>2</sup> )	386.91	399.59	377.42	384.32	( <sup>2</sup> )
<b>Manufacturing:</b>										
Current dollars .....	10.74	10.80	11.06	11.10	\$11.15	427.45	441.72	443.51	445.11	\$449.35
Constant (1982) dollars .....	8.17	8.21	8.06	8.07	( <sup>2</sup> )	325.30	335.65	323.02	323.48	( <sup>2</sup> )
<b>Transportation and public utilities:</b>										
Current dollars .....	12.96	12.83	13.15	13.20	\$13.17	505.44	500.37	503.65	508.20	\$509.68
Constant (1982) dollars .....	9.86	9.75	9.58	9.59	( <sup>2</sup> )	384.66	380.22	366.82	369.33	( <sup>2</sup> )
<b>Wholesale trade:</b>										
Current dollars .....	10.77	10.72	11.06	11.12	\$11.13	410.34	407.36	419.17	421.45	\$422.94
Constant (1982) dollars .....	8.20	8.15	8.06	8.08	( <sup>2</sup> )	312.28	309.54	305.29	306.29	( <sup>2</sup> )
<b>Retail trade:</b>										
Current dollars .....	6.74	6.73	6.91	6.98	\$6.98	194.79	193.15	194.17	197.53	\$199.63
Constant (1982) dollars .....	5.13	5.11	5.03	5.07	( <sup>2</sup> )	148.24	146.77	141.42	143.55	( <sup>2</sup> )
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	9.96	9.89	10.33	10.37	\$10.38	359.56	352.08	367.75	369.17	\$369.53
Constant (1982) dollars .....	7.58	7.52	7.52	7.54	( <sup>2</sup> )	273.64	267.54	267.84	268.29	( <sup>2</sup> )
<b>Services:</b>										
Current dollars .....	9.79	9.75	10.16	10.19	\$10.18	319.15	314.93	328.17	329.14	\$328.81
Constant (1982) dollars .....	7.45	7.41	7.40	7.41	( <sup>2</sup> )	242.88	239.31	239.02	239.20	( <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 1990 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<sup>1</sup> on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted**

Industry	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>P</sup>	May <sup>P</sup>
<b>Total private</b> .....	34.5	34.6	34.5	34.5	34.6	34.2	34.4	34.6	34.1	34.3	34.2	34.0	34.3
<b>Mining</b> .....	43.5	44.4	43.7	43.9	44.7	44.0	44.9	44.8	44.4	44.9	44.6	44.2	44.5
<b>Construction</b> .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Manufacturing</b> .....	40.9	40.9	40.9	40.9	40.9	40.7	40.6	40.7	40.4	40.3	40.3	40.3	40.4
<i>Overtime hours</i> .....	3.8	3.8	3.7	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.3	3.3	3.4
<b>Durable goods</b> .....	41.6	41.5	41.5	41.5	41.5	41.3	41.1	41.2	40.8	40.7	40.6	40.7	40.7
<i>Overtime hours</i> .....	3.9	3.9	3.8	3.9	3.8	3.6	3.5	3.6	3.3	3.2	3.2	3.3	3.3
Lumber and wood products .....	40.4	40.3	40.2	40.5	40.7	39.8	39.5	40.0	39.4	39.3	39.2	39.3	39.4
Furniture and fixtures .....	39.2	39.3	39.7	39.4	39.2	38.6	38.5	38.8	38.5	37.5	38.2	38.9	39.0
Stone, clay, and glass products .....	42.1	42.3	41.7	42.3	42.2	41.2	41.8	42.0	41.0	41.7	41.3	41.2	41.6
Primary metal industries .....	43.0	43.0	43.2	42.9	43.0	42.9	42.7	42.3	42.0	41.5	41.4	41.5	41.4
Blast furnaces and basic steel products ..	43.6	43.5	44.1	43.6	43.7	43.7	43.6	43.2	42.6	41.5	41.8	41.4	41.1
Fabricated metal products .....	41.7	41.6	41.7	41.6	41.6	41.2	40.8	41.1	40.6	40.7	40.6	40.7	40.7
Industrial machinery and equipment .....	42.1	42.0	42.0	42.1	42.1	42.1	41.8	42.1	41.6	41.5	41.5	41.3	41.3
Electronic and other electrical equipment ..	40.9	41.0	40.7	40.6	41.1	40.7	40.7	40.7	40.3	40.5	40.2	40.6	40.6
Transportation equipment .....	42.5	42.6	42.8	42.6	42.8	42.5	41.1	41.5	41.5	41.0	40.8	41.0	41.1
Motor vehicles and equipment .....	43.2	43.4	43.3	43.3	43.1	42.6	41.0	41.5	41.4	40.9	40.5	41.3	41.2
Instruments and related products .....	41.1	41.2	41.2	41.3	41.3	41.0	41.0	41.2	40.8	41.0	40.9	40.8	40.8
Miscellaneous manufacturing .....	39.4	39.3	39.5	39.9	39.9	39.8	39.6	39.3	39.0	39.3	39.3	39.3	39.5
<b>Nondurable goods</b> .....	40.1	40.2	40.1	40.1	40.2	40.0	39.9	40.0	39.9	39.8	39.9	39.8	39.9
<i>Overtime hours</i> .....	3.6	3.6	3.6	3.7	3.6	3.6	3.6	3.6	3.4	3.4	3.4	3.4	3.5
Food and kindred products .....	40.8	40.9	40.5	41.0	41.2	40.6	40.7	40.9	40.7	40.6	40.6	40.4	40.4
Tobacco products .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Textile mill products .....	40.2	40.4	40.2	40.0	39.9	39.8	39.3	39.4	39.4	39.2	39.4	39.6	40.2
Apparel and other textile products .....	36.5	36.7	36.6	36.6	36.6	36.4	36.3	36.6	36.3	36.5	36.6	36.4	36.7
Paper and allied products .....	43.3	43.5	43.5	43.5	43.2	43.5	43.5	43.5	43.0	43.0	43.2	43.0	43.1
Printing and publishing .....	37.9	38.0	38.0	38.2	38.0	37.9	37.8	37.8	37.7	37.6	37.6	37.5	37.5
Chemicals and allied products .....	42.6	42.6	42.4	42.3	42.7	42.6	42.6	42.9	42.6	42.4	42.7	42.4	42.5
Petroleum and coal products .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Rubber and misc. plastics products .....	41.4	41.6	41.4	41.3	41.4	41.1	40.8	41.0	40.8	40.6	40.6	40.7	40.8
Leather and leather products .....	37.4	37.4	37.4	37.6	37.5	37.1	36.8	37.3	36.9	37.2	37.1	37.1	37.0
<b>Transportation and public utilities</b> .....	39.2	39.2	39.1	39.0	39.1	38.5	38.7	39.0	38.7	38.6	38.6	38.5	38.9
<b>Wholesale trade</b> .....	38.0	38.1	38.1	38.1	38.2	37.9	38.0	38.3	37.9	37.9	38.1	37.9	38.1
<b>Retail trade</b> .....	28.8	28.9	28.9	28.7	28.9	28.4	28.7	28.7	28.3	28.6	28.6	28.4	28.7
<b>Finance, insurance, and real estate</b> .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Services</b> .....	32.5	32.5	32.5	32.5	32.8	32.3	32.5	32.8	32.2	32.5	32.4	32.2	32.5

<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 1990 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' on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted**

(1982=100)

Industry	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>P</sup>	May <sup>P</sup>
<b>Total private</b> .....	124.0	124.3	124.0	123.9	124.4	122.6	122.9	123.3	121.3	121.5	120.9	120.0	121.1
<b>Goods-producing</b> .....	111.0	111.1	110.2	109.9	109.6	107.7	106.8	106.7	104.4	104.0	102.7	102.5	103.0
<b>Mining</b> .....	63.7	65.3	64.5	64.0	64.9	64.4	65.3	65.3	64.9	65.4	65.0	64.2	63.5
<b>Construction</b> .....	140.4	140.8	137.1	137.4	137.2	130.9	132.9	132.6	125.0	126.9	123.2	122.4	124.2
<b>Manufacturing</b> .....	107.9	107.7	107.4	107.1	106.6	105.6	104.0	103.9	102.7	101.6	100.9	100.7	101.1
<b>Durable goods</b> .....	107.3	107.0	106.8	106.1	105.3	104.2	102.1	102.0	100.4	98.8	97.8	98.0	98.2
Lumber and wood products .....	132.1	130.9	130.0	129.6	129.4	126.3	123.6	123.5	120.5	118.6	117.0	117.7	119.0
Furniture and fixtures .....	126.0	125.7	125.8	124.2	123.2	120.8	118.0	117.4	115.9	111.7	112.6	115.3	116.5
Stone, clay, and glass products .....	111.0	111.3	109.5	109.7	109.2	106.4	106.4	106.2	102.1	102.4	99.9	99.9	100.6
Primary metal industries .....	94.3	94.0	95.0	93.5	93.0	92.6	91.4	90.3	89.0	86.6	85.7	85.6	85.7
Blast furnaces and basic steel products .....	82.8	82.0	83.9	82.4	82.7	83.3	83.1	81.8	79.1	74.7	74.7	74.3	74.1
Fabricated metal products .....	109.4	109.0	109.2	108.6	107.6	106.6	104.4	104.6	103.2	100.8	99.9	99.9	100.1
Industrial machinery and equipment .....	98.5	98.0	97.8	97.6	96.7	96.6	95.2	95.3	93.8	93.0	92.5	91.3	90.3
Electronic and other electrical equipment .....	108.2	107.9	107.1	106.1	105.7	104.7	103.7	103.1	101.5	101.1	99.7	100.7	100.8
Transportation equipment .....	122.1	122.6	122.5	121.0	119.7	118.3	111.8	112.5	111.2	108.0	106.3	107.2	108.9
Motor vehicles and equipment .....	131.9	134.7	134.5	132.5	130.4	128.4	110.3	115.8	114.8	108.7	108.1	113.0	117.3
Instruments and related products .....	88.4	88.1	87.3	87.0	86.5	85.5	85.2	85.4	84.8	84.8	84.8	84.1	83.4
Miscellaneous manufacturing .....	101.6	100.9	101.9	102.0	102.0	101.3	100.2	99.4	98.0	98.0	96.9	96.9	97.0
<b>Nondurable goods</b> .....	108.7	108.8	108.4	108.5	108.4	107.6	106.7	106.7	105.9	105.5	105.2	104.6	105.1
Food and kindred products .....	110.3	109.8	109.5	110.7	111.4	110.4	110.3	111.2	110.8	111.0	111.0	109.8	110.2
Tobacco products .....	69.5	68.6	70.2	72.4	72.2	70.0	70.7	70.9	71.8	70.7	67.2	66.2	66.0
Textile mill products .....	99.6	99.2	98.8	98.1	97.5	95.9	95.0	94.2	93.7	92.3	92.3	93.0	94.7
Apparel and other textile products .....	94.2	94.2	93.5	93.5	93.2	92.3	91.0	91.3	89.9	90.3	90.5	90.0	91.1
Paper and allied products .....	110.9	111.4	111.6	111.3	110.8	111.1	110.5	110.2	109.9	109.9	109.7	108.8	108.9
Printing and publishing .....	128.4	128.4	128.6	128.8	128.0	127.4	126.4	126.0	125.1	124.4	123.5	122.7	122.1
Chemicals and allied products .....	104.9	104.9	104.6	104.1	104.6	104.4	104.1	104.2	103.4	102.8	103.1	102.4	102.1
Petroleum and coal products .....	86.9	90.1	86.7	86.3	87.7	86.0	90.3	85.6	84.5	85.9	86.3	86.9	85.9
Rubber and misc. plastics products .....	129.5	130.2	129.9	129.6	129.2	128.0	125.1	124.8	123.4	121.6	119.7	119.6	120.8
Leather and leather products .....	63.8	63.2	62.6	61.5	61.3	60.0	58.5	58.3	57.4	57.0	55.9	55.3	55.1
<b>Service-producing</b> .....	129.8	130.3	130.3	130.1	131.0	129.3	130.1	130.7	128.9	129.4	129.0	127.9	129.2
<b>Transportation and public utilities</b> .....	115.6	116.1	115.5	115.3	116.0	114.3	115.2	116.1	115.3	114.3	114.1	113.6	114.9
<b>Wholesale trade</b> .....	116.5	116.8	116.6	116.5	116.7	115.7	115.8	115.8	114.7	114.2	114.3	113.2	113.8
<b>Retail trade</b> .....	123.7	124.2	124.1	123.3	124.1	121.7	122.7	122.3	120.3	121.1	120.6	119.4	120.4
<b>Finance, insurance, and real estate</b> .....	121.0	120.6	120.7	120.8	122.3	119.4	120.2	121.6	120.4	120.2	119.9	118.3	120.1
<b>Services</b> .....	144.9	145.5	145.7	146.1	147.3	146.1	146.7	148.1	145.8	146.9	146.5	145.4	146.9

<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 1990 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. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonfarm payrolls, seasonally adjusted**

Industry	1990								1991				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>p</sup>	May <sup>p</sup>
<b>Average hourly earnings</b>													
<b>Total private</b> (in current dollars) .....	\$9.98	\$10.02	\$10.05	\$10.07	\$10.10	\$10.10	\$10.13	\$10.17	\$10.18	\$10.20	\$10.24	\$10.28	\$10.32
<b>Mining</b> .....	13.63	13.75	13.78	13.76	13.85	13.83	13.88	13.89	14.04	13.99	14.03	14.02	14.02
<b>Construction</b> .....	13.77	13.78	13.81	13.83	13.86	13.86	13.85	13.87	13.95	13.97	13.97	14.05	14.01
<b>Manufacturing</b> .....	10.80	10.84	10.87	10.89	10.91	10.96	10.96	10.99	11.02	11.03	11.05	11.11	11.15
<b>Excluding overtime</b> <sup>2</sup> .....	10.33	10.36	10.39	10.41	10.44	10.50	10.50	10.54	10.58	10.59	10.61	10.64	10.70
<b>Transportation and public utilities</b> .....	12.90	12.94	13.01	13.00	13.03	13.05	13.07	13.11	13.15	13.13	13.16	13.20	13.24
<b>Wholesale trade</b> .....	10.73	10.79	10.82	10.83	10.92	10.88	10.93	11.00	11.00	11.05	11.07	11.08	11.14
<b>Retail trade</b> .....	6.74	6.77	6.78	6.80	6.81	6.82	6.83	6.84	6.86	6.87	6.90	6.97	6.99
<b>Finance, insurance, and real estate</b> .....	9.88	9.97	10.03	10.04	10.12	10.09	10.12	10.22	10.17	10.22	10.32	10.29	10.37
<b>Services</b> .....	9.78	9.83	9.88	9.90	9.94	9.92	9.98	10.03	10.03	10.07	10.13	10.16	10.21
<b>Total private</b> (in constant dollars) <sup>3</sup> .....	7.58	7.57	7.57	7.51	7.48	7.43	7.43	7.44	7.42	7.43	7.46	7.47	(*)
<b>Average weekly earnings</b>													
<b>Total private:</b>													
In current dollars .....	344.31	346.69	346.73	347.42	349.46	345.42	348.47	351.88	347.14	349.86	350.21	349.52	353.98
In constant (1982) dollars <sup>3</sup> .....	261.44	261.85	261.09	259.27	258.67	254.17	255.66	257.41	253.02	254.81	255.07	253.83	(*)

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

<sup>3</sup> The Consumer Price Index for Urban Wage Earners and Clerical

Workers (CPI-W) is used to deflate these series.

<sup>4</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: Data in this table have been revised to reflect March 1990 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. 1990	Mar. 1991	Apr. 1991P	Apr. 1990	Mar. 1991	Apr. 1991P	Apr. 1990	Mar. 1991	Apr. 1991P
<b>Alabama</b> .....	40.3	40.2	40.2	\$9.32	\$9.62	\$9.65	\$375.60	\$386.72	\$387.93
Birmingham .....	40.2	41.1	40.8	9.62	10.03	10.15	386.72	412.23	414.12
Mobile .....	41.1	41.9	41.3	11.15	11.40	11.38	458.27	477.66	469.99
<b>Alaska</b> .....	47.5	46.3	51.0	12.87	11.42	11.42	601.83	528.75	582.42
<b>Arizona</b> .....	40.3	40.5	40.2	10.07	10.49	10.44	405.82	424.85	419.69
<b>Arkansas</b> .....	39.7	40.3	40.3	8.46	8.71	8.75	335.86	351.01	352.63
Fayetteville-Springdale .....	38.8	38.6	41.3	7.61	7.83	7.64	295.27	302.24	315.53
Fort Smith .....	38.1	40.6	39.9	9.04	8.95	8.82	344.42	363.37	351.92
Little Rock-North Little Rock .....	40.3	41.0	41.1	9.00	9.44	9.80	362.70	387.04	402.78
Pine Bluff .....	41.6	41.5	41.5	10.87	10.31	10.38	452.19	427.87	430.77
<b>California</b> .....	39.5	40.5	40.2	11.36	11.73	11.77	448.72	475.07	473.15
Anaheim-Santa Ana .....	40.4	40.1	39.7	11.35	12.00	11.98	458.54	481.20	475.61
Bakersfield .....	40.2	39.5	40.0	12.42	12.31	12.36	499.28	486.25	494.40
Fresno .....	39.4	39.5	39.1	9.46	9.96	9.96	372.72	393.42	389.44
Los Angeles-Long Beach .....	39.2	41.3	41.0	10.77	11.12	11.16	422.18	459.26	457.56
Modesto .....	39.4	39.0	39.1	10.41	11.05	11.14	410.15	430.95	435.57
Oakland .....	40.3	40.3	40.0	13.36	13.49	13.61	538.41	543.65	544.40
Oxnard-Ventura .....	40.3	40.2	40.3	10.79	11.28	11.16	434.84	453.46	449.75
Riverside-San Bernardino .....	39.3	39.5	39.9	10.31	10.60	10.66	405.18	418.70	425.33
Sacramento .....	39.5	37.9	38.0	11.70	12.22	12.31	462.15	463.14	467.78
Salinas-Seaside-Monterey .....	38.2	38.6	40.0	11.02	11.61	11.55	420.96	448.15	462.00
San Diego .....	39.3	40.7	39.8	11.42	11.78	11.91	448.81	479.45	474.02
San Francisco .....	39.9	39.7	39.8	12.67	12.97	12.95	505.53	514.91	515.41
San Jose .....	40.5	40.6	40.4	13.59	14.11	14.21	550.40	572.87	574.08
Santa Barbara-Santa Maria-Lompoc .....	40.4	41.6	41.6	11.62	12.32	12.71	469.45	512.51	528.74
Santa Rosa-Petaluma .....	38.5	37.9	38.0	11.25	11.66	11.79	433.13	441.91	448.02
Stockton .....	39.8	41.1	41.2	11.04	11.39	11.43	439.39	468.13	470.92
Vallejo-Fairfield-Napa .....	39.7	41.5	38.5	13.33	13.60	13.30	529.20	564.40	512.05
<b>Colorado</b> .....	40.9	40.6	40.1	10.71	11.53	11.56	438.04	468.12	463.56
Denver .....	40.5	41.3	40.6	12.11	12.54	12.58	490.46	517.90	510.75
<b>Connecticut</b> .....	40.8	41.8	41.4	11.46	11.83	11.82	467.57	494.49	489.35
Bridgeport-Milford .....	39.6	41.9	41.7	12.14	12.58	12.62	480.74	527.10	526.25
Hartford .....	41.4	41.7	41.1	12.34	12.58	12.51	510.88	524.59	514.16
New Britain .....	39.7	40.6	41.0	12.09	12.35	12.28	479.97	501.41	503.48
New Haven-Meriden .....	39.4	39.8	39.9	10.80	11.14	11.17	425.52	443.37	445.68
Stamford .....	40.5	40.9	40.7	11.81	12.12	12.40	478.31	495.71	504.68
Waterbury .....	40.2	41.6	41.6	10.23	10.91	10.87	411.25	453.86	452.19
<b>Delaware</b> .....	40.3	39.1	40.4	13.22	12.13	11.09	532.77	474.28	448.04
Wilmington .....	41.3	39.5	40.3	15.86	14.32	13.36	655.02	565.64	538.41
<b>District of Columbia:</b>									
Washington MSA .....	38.2	38.5	38.6	12.45	13.03	12.96	475.59	501.66	500.26
<b>Florida</b> .....	39.8	40.3	40.1	8.94	9.21	9.19	355.81	371.16	368.52
Fort Lauderdale-Hollywood-Pompano Beach .....	39.2	40.1	40.0	9.04	9.43	9.34	354.37	378.14	373.60
Jacksonville .....	40.0	40.9	40.9	9.34	9.56	9.54	373.60	391.00	390.19
Miami-Hialeah .....	37.9	39.3	39.2	7.51	7.56	7.52	284.63	297.11	294.78
Orlando .....	40.2	41.4	40.8	10.14	10.44	10.44	407.63	432.22	425.95
Pensacola .....	44.3	43.2	43.0	11.38	11.57	11.54	504.13	499.82	498.22
Tampa-St. Petersburg-Clearwater .....	39.6	39.5	39.6	9.13	9.54	9.51	361.55	376.83	376.60
West Palm Beach-Boca Raton-DeLray Beach .....	38.9	41.8	39.5	9.52	10.10	9.88	370.33	422.18	390.26
<b>Georgia</b> .....	39.7	40.3	40.3	9.18	9.35	9.50	364.45	376.81	382.85
Atlanta .....	39.9	40.6	41.0	10.61	10.85	11.12	423.34	440.51	455.92
Savannah .....	46.6	45.0	45.4	11.56	11.85	11.80	538.70	533.25	535.72
<b>Hawaii</b> .....	39.0	38.6	37.4	10.88	11.53	11.55	424.32	445.06	431.97
Honolulu .....	39.1	38.6	37.4	11.13	12.11	12.02	435.18	467.45	449.55
<b>Idaho</b> .....	38.7	36.8	37.9	10.32	10.90	10.79	399.38	401.12	408.94

See footnotes at end of table.



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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Illinois</b> .....	40.1	40.6	40.5	\$11.34	\$11.56	\$11.58	\$454.73	\$469.34	\$468.99
Aurora-Elgin .....	41.0	39.8	39.8	10.85	11.40	11.38	444.85	453.72	452.92
Bloomington-Normal .....	40.6	40.1	40.0	12.22	13.56	13.55	496.13	543.76	542.00
Champaign-Urbana-Rantoul .....	40.5	41.7	40.4	9.67	10.17	10.19	391.64	424.09	411.68
Chicago .....	40.5	40.3	40.5	11.10	11.30	11.30	449.55	455.39	457.65
Davenport-Rock Island-Moline .....	40.1	40.7	41.5	13.35	13.91	13.94	535.34	566.14	578.51
Decatur .....	46.1	43.0	42.3	14.67	15.01	14.93	676.29	645.43	631.54
Joliet .....	41.0	41.1	42.0	12.94	13.43	13.51	530.54	551.97	567.42
Kankakee .....	41.4	39.7	40.8	11.93	12.29	12.22	493.90	487.91	498.58
Lake County .....	39.9	40.7	40.2	11.50	11.91	11.85	458.85	484.74	476.37
Peoria .....	40.7	41.4	40.5	13.79	14.23	14.49	561.25	589.12	586.85
Rockford .....	39.5	40.9	40.2	12.20	12.09	12.65	481.90	494.48	508.53
Springfield .....	37.5	38.7	41.2	10.20	11.24	11.36	382.50	434.99	468.03
<b>Indiana</b> .....	39.9	39.4	40.6	11.89	12.15	12.23	474.41	478.71	496.54
Anderson .....	38.6	34.1	41.7	15.18	15.24	15.77	585.95	519.68	657.61
Bloomington .....	37.6	38.8	38.9	10.25	11.11	11.17	385.40	431.07	434.51
Elkhart-Goshen .....	38.7	38.7	40.9	9.72	10.05	10.29	376.16	388.94	420.86
Evansville .....	40.7	40.1	40.6	11.81	12.41	12.36	480.67	497.64	501.82
Fort Wayne .....	39.5	39.7	41.7	12.00	12.43	12.77	474.00	493.47	532.51
Gary-Hammond .....	36.6	41.4	41.0	16.19	16.71	16.59	592.55	691.79	680.19
Indianapolis .....	40.3	40.9	41.3	12.11	12.63	12.91	486.03	516.57	533.18
Kokomo .....	37.9	25.1	31.3	16.50	16.47	16.24	625.35	413.40	508.31
Lafayette-West Lafayette .....	38.3	40.5	45.6	11.62	12.61	12.79	452.71	516.61	563.22
Muncie .....	42.5	42.8	45.2	12.72	12.82	13.15	540.60	548.70	594.38
South Bend-Mishawaka .....	39.0	41.7	42.0	10.90	11.29	11.26	425.10	470.79	472.92
Terre Haute .....	42.7	42.9	42.8	9.98	11.55	11.52	426.15	495.50	493.06
<b>Iowa</b> .....	39.4	39.4	40.3	11.10	11.60	11.55	437.34	457.04	465.47
Cedar Rapids .....	37.4	38.7	38.9	13.18	13.85	13.80	492.93	536.00	538.82
Des Moines .....	38.8	41.4	41.9	12.22	12.59	12.53	474.14	521.23	525.01
Dubuque .....	38.2	40.2	42.0	12.05	12.57	12.36	460.31	505.31	519.12
Sioux City .....	39.6	37.7	37.3	8.79	8.94	8.93	348.08	337.04	333.09
<b>Kansas</b> .....	39.8	40.2	39.9	10.89	11.06	11.04	433.42	444.61	440.50
Topeka .....	40.8	40.3	38.9	12.05	12.10	12.03	491.64	487.63	467.97
Wichita .....	40.6	40.4	40.7	12.09	12.57	12.55	490.85	507.83	510.79
<b>Kentucky</b> .....	39.4	39.6	39.4	10.68	10.92	11.04	420.79	432.43	434.98
Lexington-Fayette .....	40.3	40.8	41.5	11.14	11.78	11.76	448.94	479.81	468.04
Louisville .....	41.0	41.8	41.7	12.15	12.46	12.71	498.15	520.83	530.01
<b>Louisiana</b> .....	41.9	41.9	42.0	11.85	11.62	11.83	498.52	486.88	496.86
Baton Rouge .....	42.9	44.5	44.9	13.59	13.85	13.67	583.01	616.33	613.78
New Orleans .....	42.0	40.7	41.0	11.24	11.27	11.21	472.08	458.69	459.61
Shreveport .....	39.0	39.5	39.7	11.91	11.34	13.04	464.49	447.93	517.69
<b>Maine</b> .....	39.6	40.1	39.5	10.62	11.02	10.97	420.55	441.90	433.32
Lewiston-Auburn .....	36.3	39.8	38.5	9.16	9.43	9.40	332.51	375.31	361.90
Portland .....	36.7	37.0	37.0	10.50	10.48	10.52	406.35	387.76	389.24
<b>Maryland</b> .....	39.8	40.3	40.2	11.69	11.80	11.78	485.26	475.54	473.56
Baltimore MSA .....	39.6	40.7	40.8	12.09	12.22	12.23	476.76	497.35	496.98
<b>Massachusetts</b> .....	40.5	40.9	40.5	11.33	11.70	11.63	458.87	478.53	471.02
Boston .....	40.4	40.4	40.0	11.82	12.46	12.45	477.53	503.36	498.00
Springfield .....	40.8	40.4	40.0	10.81	11.11	11.18	441.05	448.84	447.20
Worcester .....	40.7	42.3	42.2	11.05	11.21	11.10	449.74	474.16	468.42
<b>Michigan</b> .....	40.5	40.3	40.7	13.68	14.10	14.17	554.04	568.23	576.72
Ann Arbor .....	42.1	41.8	41.8	14.50	15.37	15.60	610.45	642.47	652.08
Battle Creek .....	41.7	41.9	40.5	14.64	14.83	15.18	610.49	621.36	614.79
Detroit .....	41.0	40.5	41.3	14.82	15.04	15.24	607.62	809.12	629.41
Flint .....	41.2	39.5	39.7	17.01	18.44	18.42	700.81	728.38	731.27
Grand Rapids .....	39.6	39.1	39.6	11.69	11.99	12.22	462.92	468.81	483.91
Jackson .....	39.5	39.4	40.2	10.35	10.64	10.74	408.82	419.22	431.75
Kalamazoo .....	40.5	41.6	40.9	13.77	14.30	14.29	557.68	594.88	584.46
Lansing-East Lansing .....	37.3	42.5	41.0	14.85	17.07	16.70	553.90	725.47	684.70
Muskegon .....	39.5	40.4	40.1	12.19	12.26	12.19	481.50	495.30	488.82
Saginaw-Bay City-Midland .....	42.8	39.8	40.7	15.62	16.21	16.42	668.54	645.16	668.29

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. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Minnesota</b> .....	39.4	39.8	40.0	\$11.23	\$11.44	\$11.53	\$442.46	\$453.02	\$461.20
Duluth .....	40.1	41.0	41.5	11.81	11.38	10.81	473.58	466.58	448.62
Minneapolis-St. Paul .....	39.5	40.0	40.4	11.76	12.08	12.20	464.52	483.20	492.88
St. Cloud .....	40.0	38.4	39.3	9.91	10.12	10.15	396.40	388.61	398.90
<b>Mississippi</b> .....	38.1	38.5	39.1	8.30	8.55	8.66	316.23	329.18	338.61
Jackson .....	39.9	39.9	39.9	9.04	9.63	9.48	360.70	384.24	378.25
<b>Missouri</b> .....	39.9	39.6	39.8	10.78	10.70	10.68	429.32	423.72	425.06
Kansas City .....	39.7	40.7	41.1	11.60	11.94	11.79	460.52	485.96	484.57
St. Louis .....	41.3	41.1	40.7	12.83	12.93	12.87	529.88	531.42	523.81
Springfield .....	38.7	38.1	37.9	9.21	9.58	9.58	356.43	364.24	363.06
<b>Montana</b> .....	38.6	38.5	39.3	11.53	11.37	11.27	445.06	437.75	442.91
<b>Nebraska</b> .....	39.5	39.9	39.2	9.53	9.78	9.83	378.44	390.22	385.34
Lincoln .....	39.5	39.2	39.1	10.87	10.88	10.95	429.37	425.71	428.15
Omaha .....	40.3	40.6	39.7	10.08	10.74	10.82	406.22	436.04	421.61
<b>Nevada</b> .....	40.3	40.1	40.4	11.08	10.83	11.07	445.72	434.28	447.23
Las Vegas .....	42.4	40.5	39.2	13.01	12.27	12.93	551.62	496.94	506.86
<b>New Hampshire</b> .....	40.4	40.4	40.6	10.83	10.70	10.67	437.53	432.28	433.20
Manchester .....	41.5	41.7	40.9	10.46	10.72	10.70	434.09	447.02	437.63
Nashua .....	40.2	40.3	40.8	13.63	12.91	12.69	547.93	520.27	517.75
Portsmouth-Dover-Rochester .....	40.5	40.9	40.5	10.07	10.24	10.56	407.64	418.82	427.68
<b>New Jersey</b> .....	40.4	41.2	40.9	11.69	12.10	12.11	472.28	498.52	495.30
<b>New Mexico</b> .....	39.7	40.3	39.8	9.04	9.27	9.48	358.89	373.58	376.51
Albuquerque .....	39.1	40.6	40.2	9.00	9.61	9.62	351.90	390.17	386.72
<b>New York</b> .....	38.8	39.5	39.4	11.06	11.24	11.37	429.13	443.98	447.98
Albany-Schenectady-Troy .....	40.0	40.8	40.8	11.83	11.85	11.64	473.20	481.11	483.07
Binghamton .....	39.7	38.8	38.9	9.59	9.92	9.96	380.72	384.90	387.44
Buffalo .....	40.8	40.6	40.8	13.60	13.39	13.40	554.88	543.63	546.72
Elmira .....	38.9	41.7	40.4	9.60	10.31	10.42	373.44	429.93	420.97
Nassau-Suffolk .....	38.8	39.8	39.4	11.64	12.02	12.03	459.39	475.99	473.98
New York PMSA .....	38.4	37.7	37.4	10.28	10.30	10.44	374.19	388.31	390.46
New York City .....	36.1	37.5	37.2	10.11	10.23	10.26	364.97	383.63	381.67
Niagara Falls .....	39.9	40.5	39.5	14.30	13.86	14.18	570.57	561.33	559.32
Orange County .....	38.9	39.6	39.5	9.17	9.62	9.80	358.71	380.95	387.10
Poughkeepsie .....	39.7	40.2	39.8	10.95	10.98	11.06	434.72	441.40	440.98
Rochester .....	41.0	41.6	42.0	12.64	13.11	13.26	526.44	545.38	556.92
Rockland County .....	37.2	39.5	38.6	8.99	9.81	10.43	334.43	387.50	402.60
Syracuse .....	40.0	40.3	40.0	12.02	12.34	12.51	480.80	497.30	500.40
Utica-Rome .....	39.7	39.5	39.6	10.32	10.52	10.67	409.70	415.54	424.67
Westchester County .....	38.8	38.5	38.7	12.13	11.17	11.96	470.64	430.05	462.85
<b>North Carolina</b> .....	38.9	38.9	39.2	8.68	9.08	9.11	337.65	353.21	357.11
Asheville .....	40.6	40.2	40.3	8.66	9.00	8.99	351.60	361.80	362.30
Charlotte-Gastonia-Rock Hill .....	38.7	38.2	38.6	9.28	9.73	9.70	359.14	371.69	374.42
Greensboro-Winston-Salem-High Point .....	37.3	36.8	36.7	9.32	9.79	9.74	347.64	378.85	376.94
Raleigh-Durham .....	41.1	41.6	41.2	9.64	10.34	10.33	404.42	430.14	425.60
<b>North Dakota</b> .....	39.5	39.0	39.7	8.92	8.97	9.02	352.34	349.83	358.09
Fargo-Moorhead .....	37.9	37.7	37.2	8.69	8.78	8.99	329.35	331.01	334.43
<b>Ohio</b> .....	41.5	41.5	41.5	12.46	12.88	12.92	517.09	534.52	536.18
Akron .....	41.3	41.5	41.8	11.61	11.80	11.91	479.49	489.70	495.46
Canton .....	41.9	41.8	41.5	11.32	11.25	11.27	474.31	470.25	467.71
Cincinnati .....	41.8	42.0	41.7	11.74	12.29	12.24	490.73	516.18	510.41
Cleveland .....	41.6	41.3	41.4	11.99	12.23	12.36	498.78	505.10	511.70
Columbus .....	40.9	41.8	42.2	12.26	12.85	12.93	501.43	537.13	545.65
Dayton-Springfield .....	41.1	41.0	41.4	13.12	13.46	13.66	539.23	551.86	565.52
Toledo .....	43.0	42.2	42.3	13.53	13.03	13.52	561.79	549.87	571.90
Youngstown-Warren .....	42.1	42.3	40.9	14.31	15.40	15.17	802.45	651.42	620.45

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. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Oklahoma</b> .....	40.0	40.4	39.9	\$11.04	\$10.96	\$11.01	\$441.60	\$442.78	\$439.30
Oklahoma City .....	40.6	40.7	40.8	13.48	12.22	12.09	547.29	497.35	493.27
Tulsa .....	41.1	41.4	40.6	11.36	11.58	11.75	468.90	479.41	477.05
<b>Oregon</b> .....	40.1	39.0	39.1	11.10	11.45	11.44	445.11	446.55	447.30
Eugene-Springfield .....	40.5	37.8	38.8	11.01	11.14	11.30	445.91	421.09	438.44
Medford .....	40.3	37.7	38.2	11.08	11.28	11.48	446.52	425.26	438.54
Portland .....	40.0	40.4	39.7	11.23	11.65	11.59	449.20	470.66	460.12
Salem .....	37.7	38.6	37.0	9.89	10.08	10.20	372.85	368.93	377.40
<b>Pennsylvania</b> .....	39.8	40.1	39.9	10.89	11.28	11.31	433.42	452.33	451.27
Allentown-Bethlehem .....	38.4	39.5	39.7	10.85	11.42	11.46	416.64	451.09	454.96
Altoona .....	37.8	39.4	39.3	9.39	9.28	9.24	353.06	365.63	363.13
Beaver County .....	42.1	43.3	42.9	10.82	11.34	11.44	455.52	491.02	490.78
Erie .....	41.6	41.9	41.4	11.31	11.84	11.85	470.50	496.10	490.59
Harrisburg-Lebanon-Carlisle .....	40.2	38.3	38.1	10.98	11.28	11.25	441.40	431.26	428.63
Johnstown .....	37.5	39.1	38.7	8.41	8.71	8.76	315.38	340.56	339.79
Lancaster .....	39.2	39.0	39.0	10.78	11.24	11.31	422.58	438.36	441.09
Philadelphia PMSA .....	39.4	39.9	39.8	11.87	12.29	12.34	467.68	490.37	488.66
Pittsburgh .....	41.1	41.0	41.2	11.39	11.61	11.66	468.13	478.01	480.39
Reading .....	39.5	40.4	40.4	11.25	11.60	11.94	444.38	478.72	482.38
Scranton-Wilkes-Barre .....	36.2	39.3	38.8	9.54	9.69	9.67	364.43	368.68	364.84
Sharon .....	40.5	41.8	40.2	11.74	12.18	12.23	475.47	506.89	491.65
State College .....	40.5	39.2	39.1	9.59	9.85	9.88	368.40	366.12	366.31
Williamsport .....	37.5	40.8	40.0	9.44	10.91	10.82	354.00	442.95	432.80
York .....	40.5	41.0	40.3	10.40	11.10	11.12	421.20	455.10	448.14
<b>Rhode Island</b> .....	39.2	39.7	39.5	9.37	9.77	9.73	367.30	387.87	384.34
Pawtucket-Woonsocket-Attleboro .....	38.9	39.4	38.4	8.80	9.08	9.07	342.32	357.75	348.29
Providence .....	39.0	39.3	39.2	8.90	9.90	9.89	347.10	389.07	387.89
<b>South Carolina</b> .....	40.8	40.7	40.6	8.78	9.06	9.07	355.66	368.74	368.24
Charleston .....	40.8	40.2	40.3	9.14	9.38	9.40	372.91	377.08	378.82
Columbia .....	41.5	40.8	40.8	9.02	9.26	9.31	374.33	377.81	379.85
Greenville-Spartanburg .....	40.5	40.3	40.2	8.71	9.02	9.08	352.76	363.51	365.02
<b>South Dakota</b> .....	38.6	40.1	40.2	8.46	8.85	8.83	328.25	354.89	354.97
Rapid City .....	39.5	39.5	41.8	9.71	9.00	9.49	383.55	355.50	394.78
Sioux Falls .....	41.9	41.7	39.5	8.57	9.22	9.12	359.06	384.47	380.24
<b>Tennessee</b> .....	37.3	39.1	39.0	9.56	9.80	9.76	356.59	383.18	380.64
Chattanooga .....	39.0	40.7	40.9	8.68	8.88	9.03	338.52	360.80	369.33
Johnson City-Kingsport-Bristol .....	39.8	40.8	40.3	9.36	10.41	10.52	372.53	422.65	423.96
Knoxville .....	37.0	39.1	39.4	8.97	9.94	10.01	331.89	368.65	394.39
Memphis .....	39.2	40.7	40.5	9.43	10.33	10.25	369.66	420.43	415.13
Nashville .....	37.2	40.6	40.4	11.32	11.08	11.18	421.10	449.85	451.67
<b>Texas</b> .....	40.7	41.6	41.7	10.42	10.79	10.78	424.09	448.88	449.53
Dallas .....	40.6	41.4	41.1	10.16	10.52	10.57	412.50	435.53	434.43
Ft. Worth-Arlington .....	40.5	40.4	40.5	11.22	11.42	11.40	454.41	461.37	461.70
Houston .....	43.0	45.2	45.1	12.09	12.63	12.60	519.87	570.88	568.26
San Antonio .....	41.2	39.5	40.5	7.58	8.15	8.18	312.30	321.93	330.48
<b>Utah</b> .....	39.2	39.8	39.4	10.29	10.57	10.59	403.37	418.57	417.25
Salt Lake City-Ogden .....	39.7	39.7	39.2	10.22	10.70	10.74	405.73	424.79	421.01
<b>Vermont</b> .....	39.6	40.8	40.8	10.42	10.99	10.98	412.63	448.39	445.79
Burlington .....	39.4	39.4	40.1	11.08	11.41	11.41	436.55	449.55	453.53
<b>Virginia</b> .....	39.8	39.4	39.7	9.93	10.28	10.40	393.23	405.03	412.88
Bristol .....	38.3	41.2	40.8	8.25	8.67	8.53	315.98	357.20	348.02
Charlottesville .....	42.3	38.7	39.2	8.78	8.99	8.97	371.39	347.91	351.62
Danville .....	39.6	40.6	40.2	9.58	10.22	10.18	379.37	414.93	409.24
Lynchburg .....	39.8	40.5	39.6	9.60	9.90	9.90	382.06	400.95	392.04
Northern Virginia .....	38.8	38.8	39.3	11.07	11.75	11.78	429.52	455.90	462.17
Richmond-Petersburg .....	41.7	41.2	41.1	12.87	13.41	13.48	538.66	552.49	554.03
Roanoke .....	39.0	41.0	41.0	11.47	12.46	12.08	447.33	510.66	495.28
<b>Washington</b> .....	40.4	40.0	39.5	12.62	13.18	13.16	509.85	527.20	519.62

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. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>West Virginia</b> .....	40.0	40.4	40.5	\$11.67	\$11.48	\$11.75	\$466.80	\$463.79	\$475.88
Charleston .....	42.2	44.0	44.0	13.24	13.66	14.16	558.73	601.04	623.04
Huntington-Ashland .....	39.4	39.1	37.7	13.33	13.28	13.90	525.20	519.25	524.03
Parkersburg-Marietta .....	41.2	40.3	41.0	13.45	13.69	13.77	554.14	551.71	564.57
Wheeling .....	41.6	42.7	46.9	13.83	13.76	14.42	575.33	587.55	676.30
<b>Wisconsin</b> .....	40.1	40.8	40.7	11.00	11.38	11.39	441.10	464.30	463.57
Appleton-Oshkosh .....	42.1	42.4	42.2	11.83	12.30	12.22	498.04	521.52	515.68
Eau Claire .....	43.6	43.7	44.0	11.54	12.65	12.49	503.14	552.81	549.56
Green Bay .....	41.1	41.9	41.7	12.22	12.47	12.40	502.24	522.49	517.08
Janesville-Beloit .....	34.4	43.4	44.8	12.64	13.65	14.15	441.70	592.41	633.92
Kenosha .....	39.4	39.2	39.4	11.51	11.16	11.71	453.49	438.28	461.37
La Crosse .....	38.7	42.3	41.8	9.79	9.97	10.13	378.87	421.73	423.43
Madison .....	40.3	41.1	41.0	10.49	10.72	10.69	422.75	440.59	438.29
Milwaukee .....	39.9	40.8	40.8	11.66	12.15	12.22	465.23	495.72	498.58
Racine .....	37.9	39.5	39.1	11.16	11.96	11.65	422.96	472.42	455.52
Sheboygan .....	41.2	39.6	40.4	10.88	10.99	11.21	448.26	435.20	452.88
Wausau .....	43.1	41.8	42.2	11.10	11.11	11.13	478.41	464.40	469.69
<b>Wyoming</b> .....	40.5	37.8	37.7	11.47	10.95	11.00	464.54	413.91	414.70
<b>Puerto Rico</b> .....	37.5	39.7	39.3	5.88	6.30	6.35	219.75	250.11	249.56
<b>Virgin Islands</b> .....	42.1	40.9	41.7	11.71	12.36	12.37	492.99	505.52	515.83

<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 1990 benchmarks.

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

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

Industry	Millions of hours (annual rate) <sup>1</sup>			Percent change		
	Mar. 1991 <sup>r</sup>	Apr. 1991 <sup>r</sup>	May 1991 <sup>p</sup>	May 1990 to May 1991 <sup>p</sup>	Mar. 1991 to Apr. 1991 <sup>r</sup>	Apr. 1991 to May 1991 <sup>p</sup>
Total .....	200,396	199,463	200,433	-1.7	-0.5	0.5
Private sector .....	163,371	162,470	163,592	-2.0	-6	.7
Mining .....	1,656	1,634	1,631	1.2	-1.3	-.2
Construction .....	9,232	9,223	9,306	-9.7	-.1	.9
Manufacturing .....	38,795	38,710	38,763	-5.2	-.2	.1
Durable goods .....	22,403	22,392	22,401	-7.1	.0	.0
Nondurable goods .....	16,392	16,318	16,363	-2.4	-5	.3
Transportation and public utilities .....	11,690	11,642	11,777	-.7	-.4	1.2
Wholesale trade .....	12,095	11,986	12,044	-1.9	-.9	.5
Retail trade .....	28,819	28,539	28,821	-2.3	-1.0	1.0
Finance, insurance, and real estate .....	12,468	12,436	12,429	-.4	-.3	-.1
Services .....	48,616	48,299	48,820	1.6	-.7	1.1
Government .....	37,025	36,993	36,842	-.2	-.1	-.4

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

<sup>p</sup> =preliminary.

<sup>r</sup> =revised.

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

nonsupervisory workers, and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods*, BLS Bulletin 2285, chapter 10, Productivity Measures: Business Sector and Major Subsectors.

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

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

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

(1982=100)

Item	Annual average		Quarterly index										
	1989	1990	1988		1989				1990				1991
			III	IV	I	II	III	IV	I	II	III	IV	
<b>Business sector</b>													
Output per hour of all persons .....	112.6	111.9	113.6	113.1	113.0	113.0	112.6	111.9	111.7	111.9	112.1	111.8	111.8
Output .....	135.8	136.1	133.8	134.5	135.6	135.9	136.1	135.5	136.0	136.4	136.5	135.4	133.8
Hours .....	120.5	121.6	117.8	118.8	120.0	120.2	120.9	121.0	121.7	121.9	121.8	121.1	119.7
Compensation per hour .....	132.9	137.7	129.7	130.8	131.8	132.7	133.1	133.8	135.3	137.0	138.6	139.8	141.1
Real compensation per hour .....	103.4	101.7	105.1	104.8	104.4	103.5	103.0	102.5	101.8	102.2	101.7	100.8	100.9
Unit labor costs .....	117.9	123.1	114.2	115.6	116.7	117.4	118.2	119.5	121.1	122.5	123.6	125.0	126.2
Unit nonlabor payments .....	133.1	136.8	128.8	130.2	130.9	133.3	133.9	134.5	135.5	137.0	137.8	136.7	139.0
Implicit price deflator .....	122.8	127.5	118.9	120.3	121.2	122.5	123.3	124.3	125.8	127.2	128.2	128.8	130.3
<b>Nonfarm business sector</b>													
Output per hour of all persons .....	111.7	110.8	112.8	112.9	112.1	112.0	111.7	111.0	110.7	110.7	110.9	110.7	110.8
Output .....	136.7	136.9	134.8	136.0	136.4	136.8	137.1	136.3	136.8	137.2	137.4	136.1	134.5
Hours .....	122.3	123.6	119.5	120.5	121.7	122.2	122.7	122.8	123.7	123.9	123.9	123.0	121.5
Compensation per hour .....	131.9	136.6	128.8	130.0	131.0	131.6	132.1	132.9	134.2	135.8	137.4	138.7	140.1
Real compensation per hour .....	102.7	100.8	104.3	104.2	103.8	102.7	102.3	101.9	101.0	101.3	100.8	100.0	100.2
Unit labor costs .....	118.1	123.3	114.2	115.2	116.9	117.5	118.3	119.7	121.3	122.7	123.9	125.3	126.5
Unit nonlabor payments .....	133.8	137.3	128.8	132.1	131.0	134.0	134.8	135.4	135.7	137.5	136.3	137.7	139.9
Implicit price deflator .....	123.0	127.7	118.8	120.5	121.4	122.7	123.5	124.7	125.8	127.3	128.4	129.2	130.7
<b>Manufacturing</b>													
Output per hour of all persons .....	133.3	136.8	133.4	133.3	133.3	133.7	132.9	133.5	135.1	136.1	137.9	137.5	137.1
Output .....	146.4	147.0	146.1	147.1	147.1	147.1	146.0	145.3	145.9	147.5	146.8	145.7	141.5
Hours .....	109.8	107.4	109.5	110.3	110.4	110.0	109.9	108.8	108.0	108.3	107.9	106.0	103.2
Compensation per hour .....	127.7	132.0	123.6	125.0	126.7	127.1	128.2	128.9	129.7	131.2	132.5	134.0	135.2
Real compensation per hour .....	99.4	97.4	100.1	100.2	100.3	99.1	99.2	98.8	97.6	97.8	97.2	96.7	96.7
Unit labor costs .....	95.8	96.5	92.6	93.8	95.1	95.0	96.4	96.6	96.0	96.4	96.1	97.5	98.6
<b>Durable goods</b>													
Output per hour of all persons .....	145.5	150.3	143.8	144.4	144.4	146.2	145.7	145.5	147.2	149.6	152.3	151.2	150.7
Output .....	161.0	161.4	159.6	161.7	161.7	162.2	161.0	159.1	159.7	162.6	164.3	159.1	153.4
Hours .....	110.7	107.4	111.0	112.0	112.0	110.9	110.5	109.3	108.5	108.7	107.9	105.2	101.8
Compensation per hour .....	126.4	130.4	121.7	123.4	125.3	125.7	127.0	127.6	128.1	129.5	131.0	132.6	133.8
Real compensation per hour .....	98.4	96.3	98.6	98.9	99.2	98.1	98.3	97.8	96.4	96.6	96.1	95.6	95.7
Unit labor costs .....	86.9	86.8	84.7	85.5	86.8	86.0	87.2	87.7	87.0	86.5	86.0	87.7	88.8
<b>Nondurable goods</b>													
Output per hour of all persons .....	116.9	118.9	119.3	118.2	118.0	116.9	115.6	117.3	118.8	118.1	118.7	119.4	119.3
Output .....	126.9	127.7	128.1	127.6	127.6	127.1	126.1	126.9	127.6	127.4	128.0	127.8	125.7
Hours .....	108.5	107.4	107.4	107.9	108.1	108.7	109.0	108.1	107.4	107.9	107.9	107.0	105.3
Compensation per hour .....	129.6	134.6	126.3	127.4	128.5	129.1	130.0	131.1	132.2	134.0	135.1	136.7	138.0
Real compensation per hour .....	100.9	99.4	102.3	102.1	101.8	100.7	100.6	100.5	99.6	99.9	99.1	98.6	98.7
Unit labor costs .....	110.8	113.3	105.9	107.8	108.9	110.5	112.4	111.7	111.3	113.5	113.8	114.5	115.7
<b>Nonfinancial corporations<sup>1</sup></b>													
Output per all-employee hour .....	114.9	114.1	115.4	115.5	114.7	114.8	115.4	114.2	113.7	114.2	113.9	114.0	113.9
Output .....	140.4	140.6	137.8	139.3	139.5	140.3	141.5	140.4	140.5	141.4	141.1	139.6	137.5
Hours .....	122.2	123.3	119.4	120.6	121.7	122.2	122.7	123.0	123.5	123.8	123.9	122.5	120.7
Compensation per hour .....	129.3	133.6	125.9	126.9	128.3	128.8	129.3	130.0	130.9	133.0	134.4	135.7	137.0
Real compensation per hour .....	100.6	98.6	102.0	101.7	101.6	100.5	100.1	99.6	98.5	99.2	98.6	97.9	98.0
Total unit costs .....	111.4	116.3	107.8	108.5	110.1	110.9	111.5	113.2	114.3	115.4	117.1	118.6	120.4
Unit labor costs .....	112.5	117.1	109.2	109.9	111.9	112.2	112.1	113.9	115.1	116.5	118.0	119.0	120.3
Unit nonlabor costs .....	108.6	114.3	104.1	105.0	105.4	107.5	109.8	111.5	112.4	112.6	114.8	117.3	120.7
Unit profits .....	153.4	139.5	168.4	175.2	158.4	158.4	154.4	142.5	142.9	149.1	138.6	127.5	127.3
Implicit price deflator .....	114.0	117.8	111.6	112.7	113.1	113.9	114.2	115.0	116.1	117.5	118.5	119.1	120.8

<sup>1</sup> Measures of productivity, output, unit costs, unit profits and implicit prices were revised in the nonfinancial corporate sector.

<sup>r</sup> =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 1989	I 1990	II 1990	III 1990	IV 1990	I 1991'	IV 1989	I 1990	II 1990	III 1990	IV 1990	I 1991'
<b>Business sector</b>												
Output per hour of all persons .....	-2.3	-0.9	0.6	0.9	-1.2	0.1	-1.1	-1.2	-1.0	-0.4	-0.1	0.1
Output .....	-1.8	1.4	1.2	.5	-3.4	-4.5	.8	.3	.3	.3	-.1	-1.6
Hours .....	.4	2.3	.5	-.4	-2.2	-4.6	1.9	1.4	1.4	.7	.1	-1.7
Compensation per hour .....	2.2	4.5	5.4	4.6	3.5	3.7	2.3	2.6	3.3	4.2	4.5	4.3
Real compensation per hour .....	-1.8	-2.7	1.4	-2.1	-3.2	.2	-2.2	-2.5	-1.3	-1.3	-1.7	-1.0
Unit labor costs .....	4.6	5.4	4.7	3.7	4.8	3.7	3.4	3.8	4.4	4.6	4.6	4.2
Unit nonlabor payments .....	1.7	3.1	4.5	2.4	-3.2	6.8	3.2	3.6	2.8	2.9	1.7	2.6
Implicit price deflator .....	3.5	4.6	4.6	3.2	2.0	4.7	3.4	3.7	3.8	4.0	3.6	3.6
<b>Nonfarm business sector</b>												
Output per hour of all persons .....	-2.5	-1.3	.3	.6	-.7	.3	-1.6	-1.3	-1.1	-.7	-.3	.1
Output .....	-2.1	1.4	1.2	.4	-3.6	-4.6	.3	.3	.3	.2	-.1	-1.7
Hours .....	.5	2.8	.9	-.2	-2.8	-4.9	1.9	1.6	1.4	1.0	.1	-1.8
Compensation per hour .....	2.3	3.9	5.0	4.7	3.9	4.0	2.2	2.4	3.2	4.0	4.4	4.4
Real compensation per hour .....	-1.6	-3.2	1.0	-2.0	-2.9	.5	-2.2	-2.6	-1.3	-1.5	-1.8	-.9
Unit labor costs .....	5.0	5.3	4.7	4.1	4.7	3.7	3.9	3.7	4.4	4.8	4.7	4.3
Unit nonlabor payments .....	1.7	1.0	5.2	2.6	-1.7	6.3	2.5	3.6	2.6	2.6	1.7	3.0
Implicit price deflator .....	3.9	3.8	4.8	3.6	2.5	4.6	3.4	3.7	3.8	4.0	3.7	3.9
<b>Manufacturing</b>												
Output per hour of all persons .....	1.8	4.9	3.1	5.4	-1.3	-1.2	.1	1.4	1.8	3.8	3.0	1.5
Output .....	-2.0	1.8	4.3	3.5	-8.1	-10.9	-1.2	-.8	.2	1.9	.3	-3.0
Hours .....	-3.7	-2.9	1.2	-1.7	-6.9	-9.9	-1.3	-2.1	-1.5	-1.8	-2.6	-4.4
Compensation per hour .....	2.4	2.3	4.7	4.0	4.7	3.5	3.1	2.4	3.2	3.3	3.9	4.3
Real compensation per hour .....	-1.6	-4.8	.8	-2.7	-2.1	.0	-1.4	-2.7	-1.3	-2.1	-2.2	-1.0
Unit labor costs .....	.6	-2.5	1.6	-1.3	6.1	4.8	3.0	1.0	1.4	-.4	.9	2.7
<b>Durable goods</b>												
Output per hour of all persons .....	-.5	4.8	6.6	7.5	-2.9	-1.3	.8	2.0	2.3	4.5	3.9	2.4
Output .....	-4.7	1.6	7.3	4.3	-12.1	-13.6	-1.6	-1.2	.3	2.0	.0	-4.0
Hours .....	-4.1	-3.1	.7	-3.0	-9.5	-12.4	-2.3	-3.1	-2.0	-2.4	-3.8	-6.2
Compensation per hour .....	1.8	1.5	4.4	4.6	5.0	3.7	3.4	2.2	3.0	3.1	3.9	4.4
Real compensation per hour .....	-2.1	-5.5	.5	-2.1	-1.8	.2	-1.1	-2.8	-1.5	-2.3	-2.2	-.8
Unit labor costs .....	2.4	-3.1	-2.0	-2.7	8.1	5.1	2.6	.2	.7	-1.4	.0	2.0
<b>Nondurable goods</b>												
Output per hour of all persons .....	5.9	5.2	-2.4	2.2	2.3	-.2	-.8	.6	1.0	2.7	1.8	.4
Output .....	2.5	2.3	-.6	2.1	-.9	-6.4	-.6	.0	.2	1.6	.7	-1.5
Hours .....	-3.2	-2.7	1.8	.0	-3.1	-6.2	.2	-.7	-.8	-1.1	-1.0	-1.9
Compensation per hour .....	3.4	3.6	5.4	3.3	4.9	3.9	2.9	2.9	3.7	3.9	4.3	4.4
Real compensation per hour .....	-.5	-3.5	1.4	-3.3	-1.9	.3	-1.6	-2.2	-.8	-1.5	-1.9	-.9
Unit labor costs .....	-2.3	-1.5	8.0	1.1	2.6	4.2	3.7	2.2	2.7	1.2	2.5	3.9
<b>Nonfinancial corporations<sup>1</sup></b>												
Output per all-employee hour .....	-4.2	-1.5	1.6	-1.0	.4	-.4	-1.1	-.8	-.6	-1.3	-.1	.2
Output .....	-3.1	.3	2.5	-.8	-4.1	-6.0	.8	.7	.8	-.3	-.6	-2.1
Hours .....	1.1	1.8	.9	.2	-4.5	-5.6	2.0	1.5	1.3	1.0	-.4	-2.3
Compensation per hour .....	1.9	2.8	6.6	4.4	3.9	3.9	2.5	2.0	3.2	3.9	4.4	4.7
Real compensation per hour .....	-2.0	-4.3	2.6	-2.3	-2.9	.3	-2.0	-3.0	-1.3	-1.5	-1.7	-.6
Total unit costs .....	6.4	4.0	3.7	6.3	5.0	6.4	4.3	3.9	4.0	5.1	4.7	5.3
Unit labor costs .....	6.4	4.3	4.9	5.5	3.4	4.3	3.6	2.9	3.8	5.3	4.5	4.5
Unit nonlabor costs .....	6.4	3.3	.5	8.3	9.1	12.0	6.2	6.6	4.7	4.6	5.2	7.4
Unit profits .....	-27.5	1.1	18.6	-25.3	-28.4	-.5	-18.7	-9.8	-5.9	-10.2	-10.5	-10.9
Implicit price deflator .....	3.1	3.8	4.8	3.4	2.2	5.9	2.1	2.7	3.2	3.8	3.5	4.1

<sup>1</sup> Measures of productivity, output, unit costs, unit profits and implicit prices were revised in the nonfinancial corporate sector.

' = 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. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Alabama</b> .....	1,894.7	1,905.2	1,889.2	116.6	141.8	137.7	6.2	7.4	7.3
Birmingham .....	440.2	441.8	437.6	22.3	25.7	24.8	5.1	5.8	5.7
Huntsville .....	133.8	134.6	132.8	5.9	9.0	7.3	4.4	6.7	5.5
Mobile .....	210.4	212.8	212.3	14.1	15.0	14.9	6.7	7.1	7.0
Montgomery .....	138.1	138.6	138.6	8.0	9.2	8.6	5.8	6.6	6.3
Tuscaloosa .....	74.2	73.6	73.4	3.1	4.0	4.0	4.1	5.4	5.5
<b>Alaska</b> .....	252.8	252.3	257.1	20.1	21.2	18.0	8.0	8.4	7.0
<b>Arizona</b> .....	1,727.9	1,707.2	1,718.4	91.8	82.5	76.8	5.3	4.8	4.5
Phoenix .....	1,074.8	1,059.7	1,067.1	46.8	44.8	41.2	4.4	4.2	3.9
Tucson .....	315.1	314.4	317.9	13.1	10.8	9.9	4.2	3.4	3.1
<b>Arkansas</b> .....	1,132.7	1,109.2	1,115.4	71.1	88.8	83.3	6.3	6.0	7.5
Fayetteville-Springdale .....	64.2	62.8	62.9	2.0	2.3	2.2	3.1	3.7	3.5
Fort Smith .....	92.3	90.5	90.0	5.5	8.1	7.2	6.0	9.0	8.0
Little Rock-North Little Rock .....	267.2	282.9	263.8	14.4	16.7	16.5	5.4	6.3	6.3
Pine Bluff .....	38.4	36.8	37.2	2.9	4.0	3.9	7.4	11.0	10.4
<b>California<sup>1</sup></b> .....	14,600.1	14,570.8	14,664.3	768.9	1,128.5	1,083.9	5.3	7.7	7.4
Anaheim-Santa Ana .....	1,362.8	1,342.3	1,357.3	41.0	64.8	62.6	3.0	4.8	4.6
Bakersfield .....	230.4	231.1	235.3	23.7	34.0	29.9	10.3	14.7	12.7
Fresno .....	312.5	313.3	328.2	33.8	49.3	43.4	10.8	15.8	13.2
Los Angeles-Long Beach <sup>1</sup> .....	4,403.0	4,459.0	4,416.0	239.0	307.0	320.0	5.4	6.9	7.2
Modesto .....	159.5	160.8	164.7	19.1	27.2	26.0	12.0	18.9	15.8
Oakland .....	1,088.6	1,079.3	1,090.7	42.5	60.9	58.2	3.9	5.6	5.3
Oxnard-Ventura .....	378.5	363.5	367.7	16.1	25.3	22.4	4.3	7.0	6.1
Riverside-San Bernardino .....	1,061.0	1,063.2	1,102.8	60.1	99.8	97.9	5.7	9.1	8.9
Sacramento .....	737.0	728.0	735.6	32.7	54.0	49.7	4.4	7.4	6.8
Salinas-Seaside-Monterey .....	159.2	159.8	162.5	14.2	23.2	18.8	8.9	14.6	11.6
San Diego .....	1,174.1	1,155.0	1,167.8	48.3	73.0	70.8	3.9	6.3	6.0
San Francisco .....	871.8	858.7	868.7	26.9	38.6	37.2	3.1	4.5	4.3
San Jose .....	812.0	792.1	797.3	30.4	48.3	43.9	3.7	5.8	5.5
Santa Barbara-Santa Maria-Lompoc .....	182.9	177.2	179.8	7.6	12.3	10.5	4.2	8.9	5.8
Santa Rosa-Petaluma .....	206.4	213.4	214.9	8.6	14.2	13.0	4.1	6.7	6.1
Stockton .....	195.1	194.8	198.3	18.8	27.0	25.2	9.6	13.9	12.7
Vallejo-Fairfield-Napa .....	198.1	197.3	201.6	9.9	15.2	14.3	5.0	7.7	7.1
<b>Colorado</b> .....	1,737.7	1,768.5	1,771.2	94.5	114.0	95.2	5.4	6.4	5.4
Boulder-Longmont .....	137.2	138.4	138.8	5.2	8.4	5.3	3.8	4.8	3.8
Denver .....	878.5	898.9	898.8	41.5	52.6	42.0	4.7	5.8	4.7
<b>Connecticut</b> .....	1,783.2	1,766.6	1,755.6	93.1	100.1	91.8	5.2	5.7	5.2
Bridgeport-Milford .....	232.3	228.2	226.0	14.9	15.2	13.9	8.4	8.6	6.1
Hartford .....	435.5	429.4	424.2	19.8	22.2	20.2	4.6	5.2	4.8
New Britain .....	75.3	73.7	72.9	4.7	5.5	5.1	8.2	7.4	6.9
New Haven-Meriden .....	291.3	264.7	286.1	14.3	15.1	14.2	4.9	5.3	5.0
Stamford .....	113.5	113.4	112.7	4.1	4.3	4.0	3.6	3.8	3.5
Waterbury .....	103.7	101.5	100.5	8.3	8.8	8.1	8.0	8.6	8.1
<b>Delaware</b> .....	359.6	365.6	363.3	15.5	25.2	26.7	4.3	6.9	7.4
Wilmington .....	313.3	317.1	318.5	13.4	20.6	25.4	4.3	6.5	8.0
<b>District of Columbia</b> .....	296.6	285.2	283.7	18.7	19.8	19.7	8.3	8.9	7.0
Washington .....	2,193.6	2,166.3	2,190.2	60.3	92.9	88.1	2.7	4.2	4.0
<b>Florida<sup>1</sup></b> .....	8,297.4	8,410.2	8,330.8	347.2	444.1	415.7	5.5	6.9	6.6
Daytona Beach .....	160.8	164.7	161.9	8.5	11.0	10.1	5.3	6.7	6.3
Fort Lauderdale-Hollywood-Pompano Beach .....	649.5	661.3	651.9	33.5	47.6	44.0	5.2	7.2	6.8
Fort Myers-Cape Coral .....	151.1	161.1	158.8	6.0	9.3	8.7	4.0	5.7	5.5
Gainesville .....	108.1	108.1	107.3	3.9	4.7	4.3	3.6	4.3	4.0
Jacksonville .....	451.3	453.6	450.9	22.9	29.4	27.5	5.1	6.5	6.1
Lakeland-Winter Haven .....	182.3	180.4	178.3	18.0	15.0	14.9	9.9	8.3	8.4
Melbourne-Titusville-Palm Bay .....	195.1	194.4	191.4	10.6	13.9	12.8	5.4	7.1	8.7
Miami-Hialeah .....	938.3	953.2	934.8	58.7	81.1	75.9	6.3	8.5	8.1
Orlando .....	632.5	634.1	628.9	31.1	40.3	37.5	4.9	6.3	6.0
Pensacola .....	147.1	147.1	147.1	7.9	9.1	8.4	5.3	6.2	5.7
Sarasota .....	125.8	128.1	127.2	5.1	5.9	6.2	4.1	4.8	4.8
Tallahassee .....	138.0	136.0	135.4	5.1	5.7	5.2	3.7	4.2	3.8
Tampa-St. Petersburg-Clearwater .....	1,006.0	1,027.4	1,014.9	47.8	63.9	59.6	4.7	6.2	5.9
West Palm Beach-Boca Raton-DeLray Beach .....	428.5	438.6	431.8	24.5	30.8	29.8	5.7	7.0	6.9

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. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Georgia</b> .....	3,154.7	3,177.8	3,155.6	142.2	180.3	165.4	4.5	5.7	5.2
Albany .....	53.4	54.2	54.0	3.1	3.0	2.9	5.8	5.6	5.5
Athens .....	76.5	75.4	75.2	2.8	3.3	3.2	3.7	4.4	4.2
Atlanta .....	1,490.4	1,505.7	1,494.6	63.9	81.7	75.7	4.3	5.4	5.1
Augusta .....	195.6	196.5	197.3	7.1	9.5	9.2	3.6	4.8	4.7
Columbus .....	99.6	99.5	98.9	5.2	5.5	5.3	5.2	5.5	5.3
Macon-Warner Robins .....	132.8	133.8	132.7	5.1	5.9	5.7	3.9	4.4	4.3
Savannah .....	113.4	117.3	117.1	4.7	5.2	5.2	4.1	4.4	4.5
<b>Hawaii</b> .....	538.3	554.4	551.9	13.8	14.3	12.9	2.6	2.6	2.3
Honolulu .....	391.9	402.0	399.5	8.7	9.3	8.0	2.2	2.3	2.0
<b>Idaho</b> .....	495.9	496.8	495.6	32.3	37.7	33.0	6.5	7.6	6.6
Boise City .....	117.0	119.8	117.7	4.5	5.4	4.8	3.8	4.5	4.0
<b>Illinois</b> <sup>1</sup> .....	6,038.8	6,040.6	6,017.0	376.4	427.8	388.7	6.2	7.1	6.5
Aurora-Elgin .....	190.4	192.3	191.9	10.9	14.6	13.0	5.7	7.6	6.8
Bloomington-Normal .....	75.2	76.1	75.8	3.1	3.6	3.1	4.2	4.7	4.1
Champaign-Urbana-Rantoul .....	93.2	94.1	93.7	3.3	4.1	3.5	3.6	4.4	3.8
Chicago .....	3,297.0	3,299.4	3,291.2	198.5	217.5	206.8	8.0	6.6	8.3
Davenport-Rock Island-Moline .....	180.5	182.9	182.4	10.6	13.4	11.1	5.9	7.3	6.1
Decatur .....	59.8	60.3	59.9	4.3	4.7	4.5	7.1	7.8	7.5
Joliet .....	208.8	209.5	208.5	14.0	16.7	14.8	8.7	8.0	7.1
Kankakee .....	47.6	48.1	47.6	3.6	4.0	3.5	7.5	8.4	7.4
Lake County .....	309.4	307.7	309.4	11.7	15.1	13.6	3.8	4.9	4.4
Peoria .....	165.7	165.5	164.8	10.0	11.3	10.5	6.0	8.8	6.4
Rockford .....	156.2	156.3	155.0	9.8	15.5	10.7	6.1	9.9	6.9
Springfield .....	114.4	114.3	113.7	5.0	5.4	4.6	4.4	4.7	4.1
<b>Indiana</b> .....	2,839.0	2,818.7	2,835.7	149.1	206.4	166.8	5.3	7.3	5.9
Anderson .....	59.8	60.1	59.4	3.3	8.4	4.3	5.8	10.7	7.2
Bloomington .....	62.0	60.0	61.3	2.6	2.2	1.8	4.3	3.6	2.9
Elkhart-Goshen .....	93.8	91.5	92.1	4.1	7.5	5.5	4.4	8.2	8.0
Evansville .....	145.1	141.5	143.9	8.2	8.8	8.1	5.6	6.2	5.6
Fort Wayne .....	203.7	199.8	204.7	10.2	15.8	14.7	5.0	7.9	7.2
Gary-Hammond .....	264.7	257.5	261.3	18.2	18.2	17.2	6.1	7.1	6.8
Indianapolis .....	667.3	682.8	685.9	25.7	39.0	28.1	3.9	5.7	4.1
Kokomo .....	47.9	47.7	48.5	2.6	6.8	5.5	5.5	13.9	11.3
Lafayette-West Lafayette .....	69.9	68.1	68.2	2.1	2.1	1.8	3.0	3.1	2.7
Muncie .....	61.2	61.3	60.3	3.2	5.9	3.7	5.3	9.7	6.2
South Bend-Mishawaka .....	130.8	129.3	129.9	7.2	8.0	6.7	5.5	6.2	5.2
Terre Haute .....	61.8	60.4	61.5	3.0	3.8	3.3	4.9	6.3	5.4
<b>Iowa</b> .....	1,501.1	1,505.0	1,525.4	62.3	84.0	72.0	4.1	5.6	4.7
Cedar Rapids .....	96.6	96.6	98.9	5.8	6.1	5.6	5.8	6.2	5.7
Des Moines .....	234.5	240.7	241.5	7.4	10.0	9.0	3.2	4.1	3.7
Dubuque .....	44.8	48.1	45.8	2.8	3.3	2.4	6.1	7.2	5.3
Iowa City .....	62.7	62.9	63.3	.9	1.3	1.1	1.5	2.1	1.7
Sioux City .....	60.7	61.4	62.5	2.4	3.1	2.9	4.0	5.0	4.6
Waterloo-Cedar Falls .....	73.3	75.2	76.2	3.5	4.8	4.5	4.7	6.3	5.9
<b>Kansas</b> .....	1,290.6	1,315.8	1,314.4	53.4	64.5	61.2	4.1	4.9	4.7
Lawrence .....	44.4	45.4	46.2	1.4	1.8	1.8	3.1	3.9	4.0
Topeka .....	92.3	92.3	92.1	3.8	4.7	4.3	4.1	5.1	4.7
Wichita .....	254.9	263.7	261.8	11.0	12.3	11.9	4.3	4.7	4.5
<b>Kentucky</b> .....	1,766.5	1,762.8	1,776.2	109.8	132.7	129.4	6.2	7.5	7.3
Lexington-Fayette .....	201.4	193.3	196.8	8.0	8.1	7.8	4.0	4.2	4.0
Louisville .....	517.9	518.1	520.5	26.5	32.0	27.9	5.1	6.2	5.4
Owensboro .....	45.3	43.9	44.1	2.8	3.2	2.8	6.3	7.2	6.4
<b>Louisiana</b> .....	1,856.8	1,901.4	1,915.6	103.1	118.2	121.3	5.6	6.2	6.3
Alexandria .....	56.9	57.4	58.4	3.2	3.4	3.7	5.6	6.0	6.3
Baton Rouge .....	268.0	273.8	276.7	13.0	13.8	15.4	4.9	5.0	5.6
Houma-Thibodaux .....	69.1	70.3	71.0	3.7	3.8	4.0	5.4	5.3	5.7
Lafayette .....	102.7	107.0	108.1	4.3	4.9	5.0	4.1	4.6	4.6
Lake Charles .....	77.5	79.3	81.0	4.1	4.6	5.4	5.3	5.8	6.6
Monroe .....	68.8	68.5	68.9	3.3	3.9	4.1	4.8	5.7	5.9
New Orleans .....	571.5	583.1	586.3	29.4	29.8	31.8	5.1	5.1	5.4
Shreveport .....	151.9	155.3	155.4	8.7	12.6	10.1	5.7	8.1	6.5
<b>Maine</b> .....	626.1	637.2	638.0	29.9	57.0	53.9	4.8	8.9	8.5
Lewiston-Auburn .....	42.7	43.4	43.2	2.5	5.0	4.5	5.9	11.6	10.5
Portland .....	132.7	131.3	130.7	3.9	8.5	8.0	3.0	8.5	6.1

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. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Maryland</b> .....	2,520.4	2,512.1	2,534.4	90.3	149.7	141.7	3.6	6.0	5.6
Baltimore .....	1,210.2	1,205.9	1,215.4	47.2	81.5	74.8	3.9	8.8	6.2
<b>Massachusetts</b> <sup>1</sup> .....	3,160.4	3,136.1	3,111.4	173.1	322.1	259.6	5.5	10.3	8.3
Boston .....	1,565.2	1,540.0	1,531.6	72.1	132.5	109.5	4.6	8.6	7.2
Brockton .....	99.8	99.6	98.3	6.6	12.2	9.9	6.6	12.2	10.1
Fall River .....	76.8	78.9	77.0	7.3	12.8	10.4	9.5	16.3	13.5
Fitchburg-Leominster .....	48.2	48.0	45.3	3.5	6.2	5.0	7.4	13.5	11.0
Lawrence-Haverhill .....	186.9	185.5	183.6	12.9	20.7	17.2	6.9	11.2	9.4
Lowell .....	152.8	148.1	147.8	9.7	15.5	13.0	6.4	10.4	8.8
New Bedford .....	85.6	88.8	86.5	7.5	14.5	10.6	8.8	16.3	12.3
Pittsfield .....	41.3	42.1	41.5	2.5	5.3	4.2	6.0	12.7	10.2
Springfield .....	255.6	259.3	258.4	13.4	26.2	21.4	5.3	10.1	8.3
Worcester .....	220.0	214.8	212.1	12.5	23.6	19.1	5.7	11.0	9.0
<b>Michigan</b> <sup>1</sup> .....	4,447.4	4,621.2	4,499.0	311.0	508.2	434.3	7.0	11.0	9.7
Ann Arbor .....	160.8	188.1	162.5	6.1	10.9	10.1	3.8	6.5	6.2
Battle Creek .....	63.1	65.9	63.8	4.9	6.6	5.6	7.7	9.9	8.6
Benton Harbor .....	75.8	78.2	77.1	5.2	8.0	7.3	6.8	10.2	9.5
Detroit .....	2,091.8	2,149.1	2,088.6	143.6	230.1	199.6	6.9	10.7	9.6
Flint .....	178.7	193.5	187.7	14.4	33.3	26.6	8.1	17.2	14.2
Grand Rapids .....	367.8	381.7	374.2	20.4	31.3	27.3	5.5	8.2	7.3
Jackson .....	83.7	65.4	64.4	4.9	6.9	6.8	7.7	10.6	10.5
Kalamazoo .....	118.0	121.1	118.6	6.0	7.9	7.4	5.1	6.5	6.2
Lansing-East Lansing .....	235.2	243.8	237.9	12.0	17.6	14.7	5.1	7.2	6.2
Muskegon .....	68.7	69.7	87.7	6.2	9.6	8.2	9.3	13.7	12.2
Saginaw-Bay City-Midland .....	179.7	190.8	185.4	12.5	21.9	17.8	6.9	11.5	9.6
<b>Minnesota</b> .....	2,337.3	2,436.6	2,429.0	129.4	137.7	122.5	5.5	5.7	5.0
Duluth .....	111.3	115.5	113.7	8.0	8.2	7.5	7.2	7.1	8.6
Minneapolis-St. Paul .....	1,376.5	1,418.3	1,412.3	63.8	68.6	63.1	4.6	4.8	4.5
Rochester .....	62.8	66.7	66.0	2.3	2.0	1.9	3.6	3.1	2.9
St. Cloud .....	99.1	104.8	104.1	6.7	7.5	6.2	6.8	7.2	6.0
<b>Mississippi</b> .....	1,171.9	1,189.9	1,194.9	76.9	104.2	94.1	6.6	8.8	7.9
Jackson .....	200.7	200.5	202.9	9.1	12.4	11.7	4.6	6.2	5.8
<b>Missouri</b> .....	2,645.9	2,691.1	2,715.6	124.6	180.1	163.9	4.7	6.7	6.0
Kansas City .....	849.2	872.5	874.8	36.2	48.9	49.0	4.3	5.6	5.6
St. Louis LMA .....	1,275.0	1,285.9	1,291.0	65.3	88.5	80.2	5.1	6.9	6.2
Springfield .....	130.6	133.2	134.4	4.6	6.7	6.1	3.5	5.1	4.5
<b>Montana</b> .....	405.2	406.0	406.5	21.4	35.8	27.4	5.3	8.8	6.7
<b>Nebraska</b> .....	836.1	857.8	862.2	17.5	23.7	20.5	2.1	2.8	2.4
Lincoln .....	130.0	134.2	133.2	2.2	2.9	2.6	1.7	2.1	1.9
Omaha .....	337.3	352.6	353.5	8.4	11.3	10.1	2.5	3.2	2.8
<b>Nevada</b> .....	614.9	645.1	639.1	29.2	39.8	37.9	4.8	6.2	5.9
Las Vegas .....	376.4	403.0	398.7	17.8	25.2	24.6	4.7	6.3	6.2
Reno .....	134.2	137.8	136.3	6.2	8.2	7.4	4.6	6.0	5.5
<b>New Hampshire</b> .....	622.7	634.1	633.0	34.1	46.7	45.2	5.5	7.4	7.1
Manchester .....	88.1	88.9	88.9	4.6	6.3	6.0	5.2	7.1	6.8
Nashua .....	99.8	98.7	99.4	5.7	6.5	6.5	5.7	6.6	6.5
Portsmouth-Dover-Rochester .....	138.0	142.5	142.5	5.1	8.4	7.6	3.7	5.9	5.3
<b>New Jersey</b> <sup>1</sup> .....	3,976.4	4,003.9	3,992.3	176.7	280.3	243.3	4.4	7.0	6.1
Atlantic City .....	180.4	177.8	179.3	9.6	17.9	14.6	5.3	10.1	8.1
Bergen-Passaic .....	696.5	693.3	689.6	29.1	44.7	39.8	4.2	6.4	5.8
Jersey City .....	271.2	270.7	269.0	19.1	26.4	23.7	7.0	9.7	8.8
Middlesex-Somerset-Hunterdon .....	580.4	587.2	587.7	19.0	30.7	26.5	3.3	5.2	4.5
Monmouth-Ocean .....	479.6	480.1	479.9	20.3	34.1	28.5	4.2	7.1	5.9
Newark .....	937.0	948.5	942.5	45.1	67.7	59.5	4.8	7.1	6.3
Trenton .....	173.5	175.3	174.1	6.0	10.5	8.9	3.5	6.0	5.1
Vineland-Millville-Bridgeton .....	59.8	61.9	61.7	4.3	7.2	6.1	7.2	11.6	9.9
<b>New Mexico</b> .....	699.9	702.6	702.1	45.8	52.7	53.7	6.5	7.5	7.6
Albuquerque .....	264.5	263.0	263.4	13.9	15.2	15.2	5.2	5.8	5.8
Las Cruces .....	58.7	59.3	59.2	4.2	5.3	4.9	7.2	8.9	8.3
Santa Fe .....	69.3	70.6	70.9	2.3	2.9	3.1	3.3	4.2	4.4

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA  
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>New York<sup>1</sup></b> .....	8,581.3	8,551.8	8,594.2	410.9	610.8	625.9	4.8	7.1	7.3
Albany-Schenectady-Troy .....	437.5	433.3	439.5	15.4	25.7	25.4	3.5	5.9	5.8
Binghamton .....	122.4	118.8	120.4	5.3	7.7	7.7	4.4	8.5	8.4
Buffalo .....	459.7	454.9	460.5	22.0	33.0	31.6	4.8	7.3	6.9
Elmira .....	44.4	42.1	42.4	1.9	3.2	2.9	4.3	7.5	6.9
Glens Falls .....	52.1	51.3	52.0	3.1	5.6	5.2	6.0	10.9	10.1
Nassau-Suffolk .....	1,399.0	1,352.7	1,380.0	49.2	74.1	76.4	3.5	5.5	5.5
New York .....	3,839.4	4,011.2	3,975.8	214.9	305.9	329.3	5.5	7.6	8.3
New York City <sup>1</sup> .....	3,272.0	3,362.0	3,314.0	194.0	272.0	296.0	5.9	8.1	8.9
Orange County .....	135.6	130.8	133.1	6.1	9.3	8.9	4.5	7.1	6.7
Poughkeepsie .....	128.8	126.0	128.1	3.5	6.8	6.7	2.7	5.4	5.2
Rochester .....	507.0	495.9	506.0	18.7	25.9	25.4	3.7	5.2	5.0
Syracuse .....	323.1	319.1	324.5	12.8	24.0	21.6	4.0	7.5	6.7
Utica-Rome .....	136.9	133.1	135.4	6.3	10.2	10.1	4.6	7.7	7.4
<b>North Carolina<sup>1</sup></b> .....	3,366.7	3,385.0	3,383.2	120.1	191.4	189.9	3.6	5.7	5.8
Asheville .....	90.4	91.1	91.4	2.7	4.4	4.1	3.0	4.8	4.5
Charlotte-Gastonia-Rock Hill .....	637.5	643.1	646.4	18.9	30.9	31.1	3.0	4.8	4.8
Greensboro-Winston-Salem-High Point .....	516.3	514.1	512.6	17.0	25.3	24.8	3.3	4.9	4.8
Raleigh-Durham .....	415.9	415.2	417.4	9.0	13.1	13.5	2.2	3.1	3.2
<b>North Dakota</b> .....	324.4	319.0	323.3	13.0	13.8	12.0	4.0	4.3	3.7
Bismarck .....	47.0	47.1	47.5	1.7	2.0	1.7	3.7	4.3	3.5
Fargo-Moorhead .....	87.8	89.3	90.2	2.9	3.1	3.0	3.3	3.5	3.4
Grand Forks .....	35.9	35.8	36.0	1.3	1.2	1.0	3.8	3.4	2.8
<b>Ohio<sup>1</sup></b> .....	5,373.0	5,417.4	5,473.0	301.7	413.9	386.0	5.6	7.6	7.1
Akron .....	328.4	333.1	337.6	17.2	23.4	22.1	5.2	7.0	8.5
Canton .....	192.4	192.5	195.0	12.6	16.0	15.4	6.6	8.3	7.9
Cincinnati .....	776.7	785.8	796.0	31.4	40.7	40.7	4.0	5.2	5.1
Cleveland .....	941.1	944.4	954.9	44.9	57.1	55.6	4.8	6.0	5.8
Columbus .....	728.8	736.7	744.9	31.2	38.4	38.6	4.3	5.2	4.9
Dayton-Springfield .....	471.8	475.2	478.5	24.3	34.7	31.9	5.1	7.3	6.7
Toledo .....	311.5	315.2	318.3	20.3	36.8	32.6	8.5	11.7	10.2
Youngstown-Warren .....	219.9	220.8	221.6	15.2	20.6	18.3	6.9	9.3	8.3
<b>Oklahoma</b> .....	1,536.1	1,523.7	1,517.7	61.8	102.5	93.9	5.3	6.7	6.2
Enid .....	27.4	27.1	26.9	1.2	1.5	1.3	4.3	5.7	5.0
Lawton .....	48.1	47.4	47.5	2.9	3.1	3.1	6.1	6.6	6.5
Oklahoma City .....	498.9	489.9	486.5	22.1	27.9	25.0	4.4	5.7	5.1
Tulsa .....	345.1	342.0	341.2	19.2	23.3	21.4	5.6	6.8	6.3
<b>Oregon</b> .....	1,459.5	1,473.5	1,508.5	74.8	92.9	88.5	5.1	6.3	5.9
Eugene-Springfield .....	147.3	147.3	149.5	7.7	10.4	9.6	5.3	7.0	6.4
Medford .....	70.9	71.4	73.2	4.4	6.4	5.8	6.3	9.0	7.9
Portland .....	670.9	685.7	701.1	25.4	30.6	30.1	3.8	4.5	4.3
Salem .....	135.3	136.8	140.1	7.1	8.0	7.9	5.3	5.9	5.7
<b>Pennsylvania<sup>1</sup></b> .....	5,877.9	5,797.2	5,911.0	315.5	438.0	403.9	5.4	7.6	6.8
Allentown-Bethlehem .....	334.2	332.9	338.7	18.5	25.1	23.2	5.5	7.5	6.9
Altoona .....	81.7	60.8	61.8	4.6	6.3	5.6	7.5	10.3	9.0
Beaver County .....	60.0	59.2	59.6	4.8	6.5	5.4	8.0	10.9	9.0
Erie .....	132.9	132.8	135.1	7.3	10.2	9.4	5.5	7.7	6.9
Harrisburg-Lebanon-Carlisle .....	328.7	323.8	331.1	13.0	19.3	18.3	4.0	6.0	5.5
Johnstown .....	96.5	97.3	97.5	7.5	10.8	9.0	7.8	11.1	9.2
Lancaster .....	227.6	222.2	227.8	8.4	13.2	11.7	3.7	5.9	5.1
Philadelphia .....	2,432.4	2,414.6	2,456.2	108.1	161.3	151.8	4.4	8.7	6.2
Pittsburgh .....	986.3	971.7	988.6	48.6	64.0	57.6	4.9	6.6	5.8
Reading .....	175.8	172.1	176.4	9.4	13.4	12.7	5.3	7.8	7.2
Scranton-Wilkes-Barre .....	364.6	359.9	385.6	24.6	32.9	30.3	6.7	9.2	8.3
Sharon .....	52.1	51.7	52.5	3.2	4.3	4.0	6.2	8.3	7.8
State College .....	68.4	66.5	68.8	3.2	4.2	4.1	4.7	6.3	6.0
Williamsport .....	60.1	59.2	60.1	4.4	5.7	5.1	7.3	9.6	8.6
York .....	221.8	220.4	224.4	10.9	15.2	14.0	4.9	6.9	6.3
<b>Rhode Island</b> .....	518.9	520.6	512.7	37.6	44.2	41.9	7.2	8.5	8.2
Pawtucket-Woonsocket-Attleboro .....	166.2	164.2	160.8	12.7	16.1	14.5	7.6	9.8	9.0
Providence .....	342.4	342.2	340.6	23.7	27.9	26.7	6.9	8.1	7.8
<b>South Carolina</b> .....	1,709.5	1,721.0	1,748.7	66.3	106.9	100.0	3.9	6.2	5.7
Charleston .....	234.0	239.0	244.9	6.5	10.3	10.0	2.8	4.3	4.1
Columbia .....	240.3	242.5	246.8	7.1	9.9	9.6	3.0	4.1	3.9
Greenville-Spartanburg .....	339.3	341.0	346.6	11.2	18.9	17.7	3.3	5.5	5.1
<b>South Dakota</b> .....	360.8	356.4	360.5	13.0	15.5	12.3	3.6	4.4	3.4
Rapid City .....	39.8	39.3	39.4	1.6	1.7	1.6	4.0	4.3	4.1
Sioux Falls .....	75.8	75.9	75.7	2.2	2.7	2.0	2.9	3.5	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. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>	Apr. 1990	Mar. 1991	Apr. 1991 <sup>P</sup>
<b>Tennessee</b> .....	2,381.5	2,388.4	2,407.2	115.9	159.8	136.8	4.9	6.7	5.7
Chattanooga .....	210.9	211.5	213.1	8.9	12.9	11.7	4.2	6.1	5.5
Johnson City-Kingsport-Bristol .....	218.2	219.1	219.7	9.1	12.8	10.1	4.2	5.8	4.8
Knoxville .....	287.3	281.5	284.3	14.9	17.6	13.7	5.2	6.2	4.8
Memphis .....	471.0	472.2	479.6	20.1	24.0	22.5	4.3	5.1	4.7
Nashville .....	528.1	531.6	537.4	19.7	25.3	22.9	3.7	4.8	4.3
<b>Texas<sup>1</sup></b> .....	8,386.2	8,527.9	8,619.0	499.2	549.9	594.2	6.0	6.4	6.9
Abilene .....	51.0	50.7	51.2	2.8	2.8	3.2	5.5	5.8	6.3
Amarillo .....	96.7	94.9	96.3	4.7	4.7	5.1	4.9	4.9	5.3
Austin .....	433.5	442.5	445.9	18.9	20.1	21.2	4.4	4.5	4.7
Beaumont-Port Arthur .....	163.7	169.0	171.6	12.0	10.7	12.3	7.3	6.3	7.2
Brazoria .....	88.2	87.9	89.2	4.4	4.6	5.2	5.1	5.2	5.8
Brownsville-Harlingen .....	104.4	108.5	110.1	11.5	13.9	14.8	11.0	12.8	13.5
Bryan-College Station .....	62.6	63.1	64.0	2.0	2.0	2.3	3.3	3.2	3.5
Corpus Christi .....	182.9	187.4	189.8	10.1	11.7	13.3	6.2	7.0	7.8
Dallas .....	1,422.9	1,442.6	1,457.9	69.5	80.4	90.8	4.9	5.6	6.2
El Paso .....	248.0	253.7	257.7	25.4	27.3	29.0	10.2	10.8	11.3
Fort Worth-Arlington .....	725.8	740.1	747.3	34.6	46.2	51.8	4.6	6.2	6.9
Galveston-Texas City .....	108.8	109.3	110.7	7.8	7.5	8.0	7.0	6.8	7.2
Houston .....	1,700.9	1,748.7	1,767.3	82.7	91.4	100.0	4.9	5.2	5.7
Killeen-Temple .....	96.5	95.4	96.9	6.5	6.4	7.0	8.8	6.8	7.3
Laredo .....	53.1	54.2	53.8	5.9	6.7	5.9	11.2	12.3	11.0
Longview-Marshall .....	79.5	79.1	80.2	5.2	6.1	6.7	6.5	7.7	8.4
Lubbock .....	113.8	118.0	117.4	4.8	5.9	6.5	4.2	5.1	5.6
McAllen-Edinburg-Mission .....	167.9	167.5	166.0	32.5	33.7	31.1	19.4	20.1	18.8
Midland .....	47.7	48.0	48.4	2.5	2.4	2.7	5.2	4.9	5.5
Odessa .....	50.8	51.9	53.2	3.2	3.1	3.7	6.3	5.9	7.0
San Angelo .....	44.2	43.3	43.9	2.6	2.1	2.4	5.8	4.8	5.5
San Antonio .....	607.3	602.2	610.0	42.3	38.9	42.2	7.0	6.5	6.9
Sherman-Denison .....	47.3	47.5	48.1	2.4	3.1	3.4	5.1	6.5	7.1
Texarkana .....	56.7	56.4	56.8	3.3	4.2	4.4	5.9	7.5	7.8
Tyler .....	73.5	74.5	74.8	4.2	4.8	5.3	5.7	6.5	7.1
Victoria .....	35.4	36.3	36.8	1.6	1.6	1.9	4.6	4.5	5.1
Waco .....	92.0	92.8	94.7	4.7	5.2	6.5	5.1	5.6	6.8
Wichita Falls .....	54.1	55.4	56.2	2.9	3.7	4.0	5.4	6.6	7.1
<b>Utah</b> .....	779.6	797.6	806.0	38.9	37.7	37.1	5.0	4.7	4.6
Provo-Orem .....	114.8	119.9	120.4	4.4	5.1	4.6	3.8	4.3	3.8
Salt Lake City-Ogden .....	500.9	515.0	519.1	23.4	22.5	21.9	4.7	4.4	4.2
<b>Vermont</b> .....	307.7	307.6	301.3	13.6	22.2	22.2	4.5	7.2	7.4
Burlington .....	78.1	76.8	76.3	2.1	3.6	3.3	2.7	4.7	4.3
<b>Virginia</b> .....	3,163.3	3,231.8	3,232.8	115.1	201.7	174.3	3.6	6.2	5.4
Charlottesville .....	72.1	72.7	73.9	1.6	3.5	2.9	2.3	4.8	3.9
Danville .....	52.1	53.2	53.1	3.3	6.4	6.3	6.3	12.0	11.9
Lynchburg .....	74.7	74.4	74.6	3.4	3.7	3.6	4.5	5.0	4.8
Norfolk-Virginia Beach-Newport News .....	616.4	621.0	623.9	26.3	39.7	34.3	4.3	6.4	5.5
Richmond-Petersburg .....	455.3	467.3	468.5	15.2	24.6	22.0	3.3	5.3	4.7
Roanoke .....	121.4	124.9	124.5	2.9	6.4	5.2	2.4	5.1	4.2
<b>Washington</b> .....	2,507.5	2,488.5	2,499.6	117.7	175.6	157.2	4.7	7.1	6.3
Seattle .....	1,127.9	1,119.4	1,123.5	38.2	58.8	54.9	3.4	5.3	4.9
<b>West Virginia</b> .....	758.6	770.4	776.0	54.0	79.7	75.3	7.1	10.3	9.7
Charleston .....	118.0	119.1	120.3	6.5	9.0	8.8	5.5	7.6	7.3
Huntington-Ashland .....	131.5	135.2	138.1	8.3	13.0	13.2	6.3	9.7	9.7
Parkersburg-Marietta .....	71.8	73.0	73.3	4.2	6.4	5.6	5.9	8.7	7.6
Wheeling .....	71.4	71.7	72.0	4.4	6.4	5.6	6.2	9.0	7.8
<b>Wisconsin</b> .....	2,546.8	2,535.9	2,544.5	116.0	170.9	147.7	4.6	6.7	5.8
Appleton-Oshkosh-Neenah .....	171.1	170.9	172.7	7.4	10.1	10.2	4.3	5.9	5.9
Eau Claire .....	72.0	72.1	70.7	3.5	6.6	4.0	4.9	9.2	5.7
Green Bay .....	109.6	109.6	110.5	4.4	5.8	5.5	4.0	5.3	5.0
Janesville-Beloit .....	74.9	74.1	73.9	3.6	9.5	8.0	4.8	12.8	10.8
Kenosha .....	52.0	53.0	53.7	3.6	4.5	3.9	6.8	8.6	7.2
La Crosse .....	53.0	51.8	51.9	1.9	2.6	2.3	3.6	5.1	4.5
Madison .....	223.8	223.7	224.8	5.9	7.4	6.5	2.6	3.3	2.9
Milwaukee .....	753.8	742.9	743.0	29.0	39.8	37.4	3.8	5.4	5.0
Racine .....	90.0	89.1	88.4	5.0	6.8	6.0	5.6	7.7	6.8
Sheboygan .....	57.3	56.9	57.3	2.5	3.9	3.6	4.4	6.9	6.3
Wausau .....	62.6	62.9	63.4	3.0	4.1	3.8	4.8	6.5	5.9
<b>Wyoming</b> .....	245.5	241.8	243.2	13.6	14.6	12.8	5.6	6.1	5.3
Casper .....	33.0	32.4	32.3	2.0	2.1	1.8	6.0	6.5	5.5

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

<sup>P</sup> = preliminary.

NOTE: Data refer to place of residence. Estimates for 1990 have been benchmarked to 1990 Current Population Survey annual averages. Except in the

11 States and 2 areas designated by footnote 1, estimates for 1991 are provisional and will be revised when new benchmark information becomes available. Area definitions are published annually in the May issue of this publication.

# Explanatory Notes

## Introduction

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

*Data based on household interviews* are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 60,000 households, representing 729 areas in 1,973 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

*Data based on establishment records* are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonfarm wage and salary employment, average weekly hours, average hourly earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are currently based on payroll reports from a sample of over 350,000 establishments employing over 41 million nonfarm wage and salary workers. The data relate to all workers, full or part time, who receive pay during the payroll period which includes the 12th day of the month.

## RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

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

## Employment

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

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

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

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

## Hours of work

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

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

## Earnings

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

## COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

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

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

compensation but are classified as employed rather than unemployed in the household survey.

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

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

## COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

*Statistics on manufactures and business, Bureau of the Census.* BLS establishment statistics on employment differ from employment counts derived by the Bureau of the 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 nonfarm wage and salary workers are covered by the unemployment insurance programs. However, certain activities, such as interstate railroads, parochial schools, and churches are not covered by unemployment insurance whereas these are included in the BLS establishment statistics.

# Household Data (A tables)

## COLLECTION AND COVERAGE

Statistics on the employment status of the population, the personal, occupational, and other characteristics of the employed, the unemployed, and persons not in the labor force, and related data are compiled for the BLS by the Bureau of the Census in its Current Population Survey (CPS). A detailed description of this survey appears in *Concepts and Methods Used in Labor Force Statistics Derived from the Current Population Survey*, BLS Report 463. Historical national data are published in *Labor Force Statistics Derived From the Current Population Survey*, BLS Bulletin 2307.

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

Inmates of institutions and persons under 16 years of age are not covered in the regular monthly enumerations, and are excluded from the population and labor force statistics shown in this publication. Data on the members of the Armed Forces stationed in the United States, who are included as part of the categories "noninstitutional population," "labor force," and "total employment," are obtained from the Department of Defense.

Each month about 60,000 occupied units are eligible for interview. About 2,600 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 and 5 percent. In addition to the 60,000 occupied units, there are 11,500 sample units in an average month which are visited but found to be vacant or otherwise not enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from one month to the next, and one-half to be common with the same month a year earlier.

## CONCEPTS AND DEFINITIONS

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

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

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

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

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

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

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

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

*Jobseekers* are all unemployed persons who made specific

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The *urban population*, as defined for the 1980 census, comprises all persons living in urbanized areas and in places of 2,500 or more inhabitants outside urbanized areas. More specifically, the urban population consists of all persons living in (1) places of 2,500 or more inhabitants incorporated as cities, villages, boroughs (except in Alaska and New York), and towns (except in the New England States, New York, and Wisconsin), but excluding those persons living in the rural portions of extended cities; (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 are 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 appears in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986" in the February 1986 issue of this publication.

Beginning in August 1989, the second-stage ratio estimate cells were changed slightly to decrease the chance of very small cells occurring and to be more consistent with published age, sex, race cells. This change had virtually no effect on national estimates.

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

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

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

### ESTIMATING METHODS

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

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was

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

Time period	Number of sample areas	Households eligible		Households visited but not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	1330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	2333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981	629	62,200	2,800	12,000
May 1981 to Dec. 1984	629	57,800	2,500	11,000
Jan. 1985 to Mar. 1988	729	57,000	2,500	11,000
Apr. 1988 to Mar. 1989	729	53,200	2,600	11,500
Nov. 1989 to present <sup>3</sup>	729	57,400	2,600	11,800

<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.

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

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 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 contains 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 38 and 24 age-sex groups respectively; the other races category has 4 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 and August 1989. The nature and effect of the 1985 changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985" in the February 1985 issue of *Employment and Earnings*.

The controls by State for the civilian noninstitutional population 16 years and over are an arithmetic extrapolation of the trend in the growth of this segment of the population using the two most recent July 1 estimates, adjusted as a last step to a current estimate of the U.S. population of this group. State estimates by age for July 1 are published annually in *Current Population Reports, Series P-25*. For a description of the methodology used in developing the State total, see Report 957 of that series. A description of the age

estimates methodology is available in Report 1010 of that series.

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

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

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

Beginning in January 1986, two changes were introduced into the estimation of the independent population controls.

For the first time, an explicit allowance for net undocumented immigration since April 1, 1980 (the census date) was added to the estimated level of legal immigration. In addition, an increase in the estimate of emigration of legal foreign-born residents has been incorporated into the post-censal 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-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-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 errors, 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

**Table B. Standard errors for major employment status categories**

(in thousands)

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
Total, 16 years and over:		
Civilian labor force	275	212
Employed	293	224
Unemployed	136	140
Men, 20 years and over:		
Civilian labor force	173	151
Employed	186	163
Unemployed	93	95
Women, 20 years and over:		
Civilian labor force	211	155
Employed	212	160
Unemployed	83	87
Both sexes, 16 to 19 years:		
Civilian labor force	88	94
Employed	92	102
Unemployed	59	66
Black, 16 years and over:		
Civilian labor force	94	73
Employed	104	79
Unemployed	68	71
Men, 20 years and over:		
Civilian labor force	59	51
Employed	64	57
Unemployed	44	47
Women, 20 years and over:		
Civilian labor force	76	50
Employed	76	54
Unemployed	45	48
Both sexes, 16 to 19 years:		
Civilian labor force	36	40
Employed	33	38
Unemployed	30	33

change between 2 consecutive months. Estimates of change for nonconsecutive 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 errors for quarterly estimates of persons and families for use with the CPS earnings data.

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

*Illustration.* Assume that in a given month the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table D shows that the standard error on an estimate of 12,000,000 is about 174,000. The 68-percent confidence interval as shown by these data is from 11,826,000 to 12,174,000. Therefore, a conclusion that the average estimate derived from all possible samples

**Table C. Standard errors for unemployment rates by major characteristics**

Characteristic	Standard error of—		Characteristic	Standard error of—	
	Monthly level	Consecutive-month change		Monthly level	Consecutive-month change
Total (all civilian workers)	0.11	0.12	<b>Occupation—Continued</b>		
Men, 20 years and over	.15	.15	Precision production, craft, and repair	0.32	0.36
Women, 20 years and over	.16	.17	Machine operators, assemblers, and inspectors	.49	.55
Both sexes, 16 to 19 years	.67	.81	Transportation and material moving	.59	.66
White workers	.11	.12	Handlers, equipment cleaners, helpers, and laborers	.72	.82
Black workers	.51	.54	Farming, forestry, and fishing	.68	.76
Married men, spouse present	.15	.17	<b>Industry</b>		
Married women, spouse present	.19	.21	Nonagricultural private wage and salary workers	.12	.13
Full-time workers	.12	.12	Mining	1.63	1.86
Part-time workers	.34	.42	Construction	.65	.75
Unemployed 15 weeks and over	.06	.07	Manufacturing	.26	.29
			Durable goods	.33	.37
<b>Occupation</b>			Nondurable goods	.42	.47
Executive, administrative, and managerial	.22	.24	Transportation, communications, and public utilities	.42	.48
Professional specialty	.19	.21	Wholesale and retail trade	.27	.30
Technicians and related support	.47	.52	Finance and services	.20	.22
Sales	.29	.33	Government workers	.23	.25
Administrative support, including clerical	.23	.26	Agricultural wage and salary workers	1.16	1.32
Private household	1.18	1.33			
Protective service	.76	.85			
Service, except private household and protective	.39	.43			



lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in the first column of table E, the standard error on a month-to-month change of 400,000, when the monthly level is approximately 12,000,000, is about 129,000.

*Standard errors for rates and percentages.* The reliability of an estimated unemployment rate or an estimated percentage, computed using sample data for both numerator and denominator, depends upon both the size of the rate or percentage and the total upon which the rate or percentage is based. Estimated rates and percentages are relatively more reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages are not published when the monthly base is less than 75,000, the quarterly average base is less than 60,000, or the annual average base is less than 35,000.

Tables F and G show generalized standard errors for monthly level and month-to-month change for unemployment rates. Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentage can be obtained through the use of the standard errors in table H and the factors in table I. First obtain the standard error from table H for the specific percentage and base.

The generalized standard error is then calculated by multiplying the standard error from table H by the appropriate factor from table I. When the numerator and denominator of the percentage are in different categories, use the factor indicated by the numerator of the percentage.

*Illustration.* Assume that in a given month 2.9 percent of a total of 112,440,000 employed persons are employed in agriculture. The standard error on an estimate of 2.9 percent with a base of 112,440,000 is obtained from table H (0.08 percent). The appropriate factor from table I for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error on the estimated 2.9 percent is then approximately  $0.08 \times 1.26 = 0.10$  percentage point.

*Standard errors for year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages.* The approximate standard errors of levels, rates, and percentages involving year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages may be obtained by using table J in conjunction with the other tables. Standard errors for estimates of change are more closely related to the level of the estimate than to the size of the specific change. Thus, to obtain the standard error of an estimate of an average level, rate, or

**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	15	11	12	12	12	12	12	11	10
100	21	16	17	17	17	17	16	15	14
500	47	36	38	37	37	36	32	34	31
1,000	66	51	53	52	51	50	35	49	43
2,000	93	72	73	74	70	68	-	68	58
4,000	131	101	97	104	92	86	-	95	73
6,000	159	123	110	126	104	92	-	115	76
8,000	182	141	116	145	109	88	-	132	69
10,000	202	156	-	161	108	72	-	145	47
15,000	-	188	-	193	74	-	-	172	-
20,000	-	213	-	219	-	-	-	191	-
30,000	-	-	-	259	-	-	-	215	-
40,000	-	-	-	286	-	-	-	225	-
50,000	-	-	-	306	-	-	-	222	-
60,000	-	-	-	319	-	-	-	206	-
70,000	-	-	-	326	-	-	-	172	-
80,000	-	-	-	327	-	-	-	107	-
100,000	-	-	-	314	-	-	-	-	-
120,000	-	-	-	274	-	-	-	-	-
140,000	-	-	-	195	-	-	-	-	-

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

<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.

percentage, or an estimate of a change in level, rate, or percentage, it is first necessary to find the appropriate estimate of level. For an estimate of an average level, rate, or percentage, find the standard error of this estimate. For an estimate of change in level, rate, or percentage, find the standard error of the average of the two estimates affecting the change. Then, after computing the standard error by treating these estimates as monthly estimates and using the procedures above, multiply this result by a suitable factor from table J to obtain the approximate standard error for the average or change.

*Illustration.* Suppose that one is interested in the year-to-year change of a monthly unemployment rate. Assume that for a certain month the unemployment rate is 6.2 percent, based on a total of 119,865,000 in the civilian labor force, and that a year prior to this the unemployment rate was 7.0 percent, based on a total of 117,834,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.6 percent with a base of 118,850,000, is obtained from table F (0.11 percentage point). The appropriate factor, then, from table J is 1.40. The approximate standard error on the change of 0.8 percent is then given by 0.11 x 1.40 = 0.15 percentage point.

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

$$\text{Standard error of year-to-year change} = \sqrt{\left(\frac{\text{Standard error}}{X}\right)^2 + \left(\frac{\text{Standard error}}{Y}\right)^2 - 2(P)\left(\frac{\text{Standard error}}{X}\right)\left(\frac{\text{Standard error}}{Y}\right)}$$

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

$$\sqrt{(216,000)^2 + (221,000)^2 - 2(0.30)(216,000)(221,000)}$$

or about 259,000.

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

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

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

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50	2.53	3.57	5.60	7.83	9.47	10.79	11.91	12.87	13.71	15.67
100	1.79	2.52	3.96	5.53	6.69	7.63	8.42	9.10	9.69	11.08
500	.80	1.13	1.77	2.47	2.99	3.41	3.76	4.06	4.33	4.94
1,000	.57	.80	1.25	1.75	2.11	2.41	2.65	2.87	3.05	3.48
2,000	.40	.56	.88	1.23	1.49	1.70	1.87	2.02	2.15	2.44
4,000	.28	.40	.63	.87	1.05	1.20	1.32	1.42	1.51	1.70
6,000	.23	.33	.51	.71	.86	.97	1.07	1.15	1.22	1.37
10,000	.18	.25	.39	.55	.66	.75	.82	.88	.93	1.03
20,000	.13	.18	.28	.38	.46	.51	.56	.60	.62	-
60,000	.07	.10	.16	.21	.24	.27	.28	-	-	-
100,000	.06	.08	.12	.15	.17	.18	-	-	-	-
120,000	.05	.07	.11	.14	.15	-	-	-	-	-
140,000	.05	.07	.10	-	-	-	-	-	-	-

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

Monthly base of percentages (in thousands)	Percentage of monthly level									
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	30 or 70	35 or 65	50
50	2.34	3.29	5.12	7.05	8.39	9.40	10.18	10.77	11.21	11.75
100	1.65	2.33	3.62	4.99	5.94	6.65	7.20	7.62	7.93	8.31
500	.74	1.04	1.62	2.23	2.65	2.97	3.22	3.41	3.55	3.72
1,000	.52	.74	1.15	1.58	1.88	2.10	2.28	2.41	2.51	2.63
2,000	.37	.52	.81	1.12	1.33	1.49	1.61	1.70	1.77	1.86
4,000	.26	.37	.57	.79	.94	1.05	1.14	1.20	1.25	1.31
6,000	.21	.30	.47	.64	.77	.86	.93	.98	1.02	1.07
10,000	.17	.23	.36	.50	.59	.66	.72	.76	.79	.83
20,000	.12	.16	.26	.35	.42	.47	.51	.54	.56	.59
40,000	.08	.12	.18	.25	.30	.33	.36	.38	.40	.42
60,000	.07	.10	.15	.20	.24	.27	.29	.31	.32	.34
80,000	.06	.08	.13	.18	.21	.24	.25	.27	.28	.29
100,000	.05	.07	.11	.16	.19	.21	.23	.24	.25	.26
120,000	.05	.07	.10	.14	.17	.19	.21	.22	.23	.24
140,000	.04	.06	.10	.13	.16	.18	.19	.20	.21	.22
160,000	.04	.06	.09	.12	.15	.17	.18	.19	.20	.21

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

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

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

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

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

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

(In thousands)

Estimated quarterly level	Characteristic								
	Total			Men				Women	
	Part-time workers	Total or full-time workers		Part-time workers	Total or full-time workers			Total, full-time, or part-time workers	
		Total or white	Black		Total	White	Black	Total or white	Black
10	5	5	5	5	5	5	5	5	5
50	11	12	12	11	12	12	12	11	11
75	13	15	15	13	15	15	15	13	13
100	15	17	17	15	17	17	17	15	15
150	19	21	21	19	21	21	21	19	19
200	22	24	24	22	24	24	24	22	21
250	24	27	27	24	27	27	27	24	24
300	26	30	30	26	30	30	29	26	26
500	34	38	38	34	38	38	37	34	33
750	42	47	46	42	47	47	45	42	41
1,000	48	54	53	48	54	54	50	48	46
1,500	59	66	63	59	66	66	59	59	56
2,000	68	76	72	68	76	76	65	68	63
2,500	76	85	79	75	84	84	69	75	69
3,000	83	93	85	82	92	92	71	82	74
5,000	107	119	100	105	117	116	64	105	85
7,500	130	145	107	127	140	138	64	127	88
10,000	149	165	102	144	157	155	-	145	-
15,000	180	198	102	187	183	179	-	173	-
20,000	205	224	-	192	199	193	-	195	-
25,000	226	244	-	207	209	199	-	211	-
30,000	224	261	-	219	212	198	-	224	-
40,000	273	286	-	233	201	174	-	242	-
50,000	296	301	-	-	160	100	-	249	-
75,000	331	304	-	-	160	-	-	-	-
100,000	343	255	-	-	-	-	-	-	-

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

## COLLECTION

Payroll reports provide current information on wage and salary employment, hours, and earnings in nonfarm establishments, by industry and geographic location. Historical statistics are published in *Employment, Hours, and Earnings, United States, and Employment, Hours, and Earnings, States and Areas*, 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 nonfarm establishments and, for most industries, employment, payroll, and hours of production and related workers or non-supervisory 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 (beginning with August 1990 data) and for States and areas (beginning with January 1990 data) are classified in accordance with the *1987 Standard Industrial Classification (SIC) Manual*, 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 are also excluded.

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

*Indexes of diffusion of employment change (table B-7).* These indexes measure the dispersion among industries of the change in employment over the specified time span. Beginning with August 1990 data, the overall indexes are calculated from 356 seasonally adjusted employment series (three-digit industries) covering all nonfarm payroll employment in the private sector. The manufacturing diffusion indexes are based on 139 three-digit industries.

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

The reference point for diffusion analysis is 50 percent, the value which indicates that the same number of component

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

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

### Industry hours and earnings

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

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

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

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

*Payroll* covers the payroll for full- and part-time production, construction, or nonsupervisory workers who received pay for any part of the pay period which includes the 12th of the month. The payroll is reported before deductions of

any kind, e.g., for old-age and unemployment insurance, Group insurance, withholding tax, bonds, or union dues; also included is pay for overtime, holidays, vacation, and sick leave paid directly by the firm. Bonuses (unless earned and paid regularly each pay period); other pay not earned in the pay period reported (e.g., retroactive pay); tips; and the value of free rent, fuel, meals, or other payment in kind are excluded. "Fringe benefits" (such as health and other types of insurance, contributions to retirement, etc., paid by the employer) are also excluded.

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

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

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

*Indexes of aggregate weekly hours.* The indexes of aggregate weekly hours are prepared by dividing the current month's aggregate by the average of the 12 monthly figures for 1982. 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. Such factors as work stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on average hours. 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.

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

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

*Average hourly earnings, including lump-sum wage payments.* These series are compiled only for aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing. The same concepts and estimation methods apply to these series as apply to the average hourly earnings series described above; the one difference between the series is definitional. The payroll data used to calculate this series include lump-sum payments made to production workers in lieu of general wage rate increases; such payments are excluded from the definition of gross payrolls used to calculate the other average hourly earnings series.

For each sample establishment in SIC 3721 and SIC 3761 covered by a lump-sum agreement, the reported payroll data are adjusted to include a prorated portion of the lump-sum payment. Such payments are generally made once a year and cover the following 12-month period. In order to spread the payment across this time period, a prorated portion of the payment is added to the payroll each month. This prorated portion is adjusted by an exit rate to reduce the lump-sum amount to account for persons who received the payment but left before the payment allocation period expired.

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

*Railroad hours and earnings.* The figures for Class I railroads (excluding switching and terminal companies) are based on

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

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

Long-term 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 non-production 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 most 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 nonfarm industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1989 levels. Benchmark adjustments are made annually.

The primary sources of benchmark information are

**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.

<sup>1</sup> 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.

agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonfarm payrolls in the United States. Benchmark data for the residual are obtained 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 1990 benchmark adjustment is shown in table M.

Normally, 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

**Table M. Comparison of nonfarm employment benchmarks and estimates for March 1990**

(Numbers in thousands)

Industry	Benchmark	Estimate	Difference	
			Level	Percent
Total .....	109,114	109,343	-229	-0.2
Mining .....	692	715	-23	-3.3
Construction .....	4,865	4,906	-41	-.8
Manufacturing .....	19,160	19,109	51	.3
Transportation and public utilities .....	5,735	5,750	-15	-.3
Wholesale trade .....	6,167	6,326	-159	-2.6
Retail trade .....	19,302	19,361	-59	-.3
Finance, insurance, and real estate .....	6,681	6,774	-93	-1.4
Services .....	27,944	27,866	78	.3
Government .....	18,568	18,536	32	.2

included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for 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 late date, statistics in considerably greater industrial detail.

### Coverage

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

### 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 adjusted annually to new benchmarks. In addition to taking account of sampling and

**Table N. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1990**

Industry	Benchmarks (thousands)	Sample coverage <sup>1</sup>		
		Number of establishments	Employees	
			Number (thousands)	Percent of benchmarks
Total .....	109,114	289,390	40,714	37
Mining .....	692	3,314	279	40
Construction .....	4,865	26,593	963	20
Manufacturing .....	19,160	52,304	9,236	48
Transportation and public utilities .....	5,735	214,686	22,370	41
Wholesale trade .....	6,167	25,029	1,153	19
Retail trade .....	19,302	57,331	4,214	22
Finance, insurance, and real estate .....	6,681	21,395	2,110	32
Services .....	27,944	66,947	6,506	23
Government:				
Federal .....	3,082	( <sup>3</sup> )	3,082	100
State .....	4,386	5,175	3,498	80
Local .....	11,100	16,616	7,303	66

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

<sup>2</sup> The Interstate Commerce Commission provides a complete count of employment for Class I railroads. A small sample is used to estimate hours and earnings data.

<sup>3</sup> Total Federal employment counts by agency for use in national estimates are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 6,000 reports covering about 58 percent of employment in Federal establishments.

**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 employment estimates <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 .....	2.6	1.0	1.3
Construction .....	1.3	.2	.5
Manufacturing .....	.7	.1	.2
Durable goods .....	.6	.1	.3
Nondurable goods .....	.9	.1	.2
Transportation and public utilities .....	.6	.7	.6
Wholesale trade .....	1.5	.2	.4
Retail trade .....	.5	.2	.4
Finance, insurance, and real estate .....	.6	.2	.4
Services .....	.4	.4	.6
Government <sup>3</sup> .....	.3	-	-

<sup>1</sup> The average percent revision in employment for the 1986-90 benchmarks.

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

<sup>3</sup> Data 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.

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 estimates. (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:

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

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

**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.

the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are normally not greater than 0.1 of an hour for weekly hours and 1 cent for hourly earnings.

## STATISTICS FOR STATES AND AREAS

State and area employment, hours, and earnings data are collected and prepared by State agencies in cooperation with BLS. The area statistics relate to metropolitan areas. Defini-

tions 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 .....	77,500	78,300	Nondurable goods—Continued		
Total private .....	60,600	58,900	Printing and publishing .....	2,000	1,900
Goods-producing industries .....	20,700	20,900	Chemicals and allied products ..	2,600	2,800
Mining .....	3,400	3,000	Petroleum and coal products ...	1,200	1,100
Oil and gas extraction .....	2,800	2,500	Rubber and misc. plastics		
Construction .....	12,800	13,600	products .....	1,600	1,600
General building contractors .....	5,300	5,500	Leather and leather products ...	1,300	1,200
Manufacturing .....	14,100	14,400	Service-producing industries .....	70,600	69,600
Durable goods .....	12,200	11,600	Transportation and public utilities .....	12,800	11,600
Lumber and wood products .....	2,100	1,900	Transportation .....	10,500	9,000
Furniture and fixtures .....	1,500	1,400	Communications and public utilities	5,000	4,500
Stone, clay, and glass products ..	1,400	1,400	Wholesale trade .....	7,200	6,200
Primary metal industries .....	3,800	3,300	Durable goods .....	5,000	4,200
Blast furnaces and basic			Nondurable goods .....	4,500	3,900
steel products .....	2,600	2,300	Retail trade .....	34,300	28,600
Fabricated metal products .....	2,200	2,100	General merchandise stores .....	20,700	18,500
Industrial machinery			Food stores .....	6,300	5,500
and equipment .....	3,900	3,300	Automotive dealers and		
Electronic and other			service stations .....	4,200	5,000
electrical equipment .....	4,100	3,800	Eating and drinking places .....	8,200	6,400
Transportation equipment .....	6,800	6,600	Finance, insurance, and real estate ..	7,500	6,400
Motor vehicles and equipment ..	5,700	6,100	Finance .....	4,300	3,900
Instruments and related products	2,000	2,100	Insurance .....	3,600	3,100
Miscellaneous manufacturing .....	1,700	1,600	Real estate .....	4,000	3,600
Nondurable goods .....	7,500	7,600	Services .....	31,300	32,800
Food and kindred products .....	5,100	4,600	Business services .....	12,100	11,800
Tobacco products .....	1,000	900	Health services .....	8,200	7,900
Textile mill products .....	1,900	1,700	Government .....	54,200	48,000
Apparel and other textile			Federal .....	17,500	14,000
products .....	3,300	3,300	State .....	20,700	17,200
Paper and allied products .....	1,700	1,500	Local .....	36,300	36,800

NOTE: Errors are based on differences from January 1985 through December 1990. Data used in the computations for several industries are not strictly comparable due to changes in the industrial classification system.

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

### COLLECTION

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

### CONCEPTS

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

*Output* is the constant-dollar market value of final goods and services produced in a given period. Indexes of *output per hour* of all persons (productivity) measure changes in the volume of goods and services produced per hour at work.

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

*Real compensation per hour* is compensation per hour adjusted by the Consumer Price Index for All Urban Consumers (CPI-U).

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

*Unit nonlabor payments* include profits, capital consump-

tion allowances, interest, rental income of persons, and indirect taxes per unit of output. They are computed by subtracting compensation of all persons from the current-dollar gross product originating in the sector and dividing by output. In these tables, *unit nonlabor costs* contain all the components of unit nonlabor payments except unit profits.

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

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

### NOTES ON THE DATA

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

Manufacturing output data are supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis.

Compensation and hours data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics. Historical statistics for most productivity measures appear in *Trends in Multifactor Productivity, 1948-81*, BLS Bulletin 2178. Additional information may be obtained from the Office of Productivity and Technology (202-523-9261).

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

### FEDERAL-STATE COOPERATIVE PROGRAM

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

Annual average data for the States and areas shown in table

D are published in *Employment and Earnings* (usually the May issue). For regions, States, selected metropolitan areas, and central cities, annual average data classified by selected demographic, social, and economic characteristics are published in the BLS bulletin, *Geographic Profile of Employment and Unemployment*.

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

## ESTIMATING METHODS

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

### Estimates for States

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

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

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

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

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

In both the employment and unemployment rate models,

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

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

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

### Estimates for sub-State areas

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

*Preliminary estimate—employment.* The total civilian employment estimates are based on CES data. These "place-of-work" estimates must be adjusted to refer to place-of-residence as used in the CPS. Factors for adjusting from place-of-work to place-of-residence have been developed for several categories of employment on the basis of employment relationships at the time of the 1980 decennial census. These factors are applied to the CES estimates for the current period to obtain adjusted employment estimates, to which are added estimates for employment not represented in the CES—agriculture, nonagricultural self-employed and unpaid family workers, and private household workers.

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

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

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

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

## Seasonal Adjustment

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

Since January 1980, national labor force data have been seasonally adjusted with a procedure called *X-11 ARIMA* (Auto-Regressive Integrated Moving Average), which was developed at Statistics Canada as an extension of the standard X-11 method. A detailed description of the procedure appears in *The X-11 ARIMA Seasonal Adjustment Method* by Estela Bee Dagum, Statistics Canada Catalogue No. 12-564E, January 1983.

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

All labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. For example, for each of the three major labor force components—agricultural employment, nonagricultural employment, and unemployment—data for four sex-age groups (men and women under and over 20 years of age)

are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. The seasonally adjusted figure for the labor force is a sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force. Because of the independent seasonal adjustment of various series, components will not necessarily add to totals.

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

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

All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series.

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

multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 1982 annual average base. For total private, total goods-producing, total private service-producing, and major industry divisions, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1982 annual average base.

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

Seasonal adjustment factors for Federal Government employment are derived from unadjusted data which include Christmas temporary workers employed by the Postal Service. The number of temporary census workers for the

decennial census, however, are removed prior to the calculation of seasonal adjustment factors.

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

Revised seasonally adjusted establishment-based series based on the experience through March 1991, new seasonal adjustment factors for May-October 1991, and a description of the current seasonal adjustment procedure appear in the June 1991 issue of *Employment and Earnings*.



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Bureau of Labor Statistics**

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