

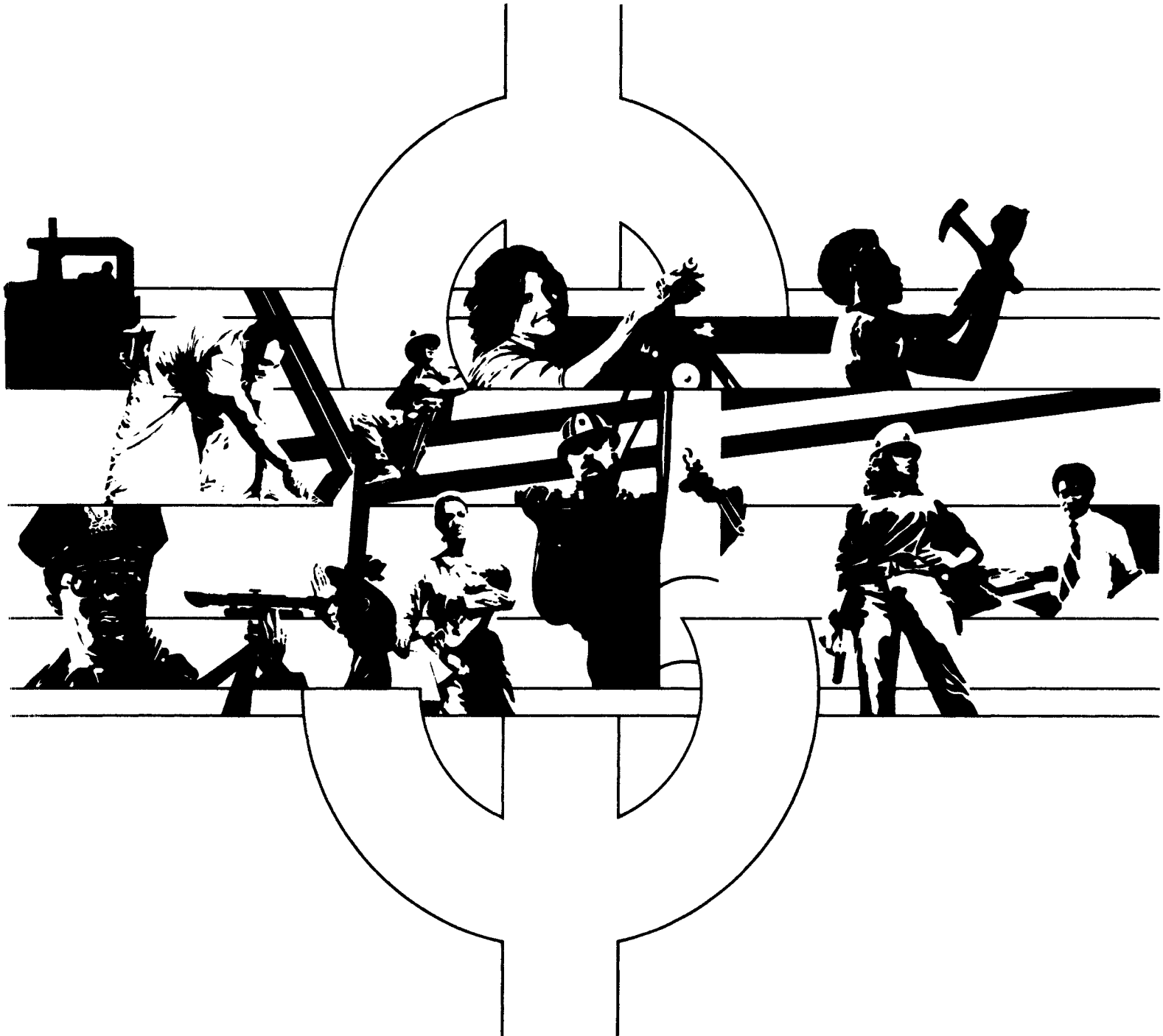
Employment and Earnings

July 1981



U S. Department of Labor
Bureau of Labor Statistics

In this issue:
Establishment data adjusted to new benchmarks





U.S. DEPARTMENT OF LABOR
Raymond J. Donovan, Secretary

BUREAU OF LABOR STATISTICS
Janet L. Norwood, Commissioner

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Communications on editorial matters should be addressed to: Editors, Employment and Earnings, Bureau of Labor Statistics, Washington, D.C. 20212. Inquiries regarding the text and *Household Data* should be addressed to: Attention of Gloria P. Green, or phone: (202) 523-1944. Inquiries relating to *Establishment Data* and all other tables should be addressed to: Attention of Gloria P. Goings, or phone: (202) 523-1487. Send correspondence on circulation and subscription matters (including address changes) to the Superintendent of Documents.

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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.
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, poverty-nonpoverty area data, family relationship data, weekly earnings data	Jan., Apr., July, Oct.

Establishment data

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Industry divisions (preliminary)	Jan.
Industry detail (final)	Mar.
Women employment detail (final)	Mar.
National data adjusted to new benchmarks	July ¹
Revised historical national data adjusted to new benchmarks	Supplement ²
Revised seasonally adjusted series	July ³
State and area annual averages	May
Area definitions	May

State and area unemployment data

Annual averages	May ⁴
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¹ The issue that introduces new benchmark varies. The July 1981 issue introduced March 1980 benchmarks.

² Month of publication of annual supplement varies. The latest supplement was published in September 1980.

³ Issue varies. Latest revised data introduced July 1981.

⁴ These data first introduced in the May 1981 issue.

Employment and Earnings

Vol. 28 No. 7 July 1981

Editors: Gloria P. Green, Gloria P. Goings, Rosalie K. Epstein

Editors' note

Beginning with this issue, establishment-based data (national series) have been revised to reflect employment benchmark levels (comprehensive counts of employment) for March 1980. In addition, the indexes of aggregate weekly hours, aggregate weekly payrolls, and the Hourly Earnings Index have been converted to a 1977 base year, and recalls data are shown for the first time seasonally adjusted. The seasonally adjusted establishment data have been revised back 5 years, which is the usual practice, based on experience through March 1981.

Due to the benchmark, rebasing, and seasonal adjustment revisions, data in tables B-1 through B-7, C-1 through C-10, D-1, and D-3 have been revised. For a discussion of the effects of these revisions, see the article, "BLS Establishment Estimates Revised to March 1980 Benchmarks," that appear on page 7. The article also gives the new seasonal factors to be used to calculate establishment data for April 1981 through March 1982. Revised historical data for detailed industry categories will be published in an August 1981 supplement to *Employment and Earnings*.

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Employment and Unemployment Developments, June 1981

Total employment and unemployment declined in June, after seasonal adjustment. Following an increase in May to 7.6 percent, the jobless rate dropped to 7.3 percent in June, the level which had prevailed in the February-April period.

Total employment—derived from the monthly survey of households—declined by 840,000 over the month to 98.4 million. This followed several months of very large increases. Nonfarm payroll employment—derived from the monthly survey of establishments—was unchanged over the month, despite the return to work of some 150,000 coal miners after the settlement of their strike. Both series showed job gains of about one and a half million from their recession lows of last summer. (The establishment data reflect revisions based on March 1980 benchmarks and updated seasonal adjustment factors. See article on page 7.)

Unemployment

Unemployment traditionally rises in June, coincident with the closing of schools and the entrance of many young people into the labor force in search of jobs. This June, the increase was less than usual, and, as a result, unemployment declined on a seasonally adjusted basis to 7.8 million. The Nation's unemployment rate declined from 7.6 percent in May to 7.3 percent in June, a return to the rate that had prevailed over the February-April period.

Jobless rate decreases in June were not pervasive but rather were concentrated among selected worker groups. Among men, the sharpest drop occurred among 20-24 year-olds, reversing the increase they had experienced in May. The April-June movement may be a reflection of an earlier-than-usual summer labor force entrance among college students, for which the seasonal adjustment process was unable to account fully. Prior to May, the unemployment rate for this group had been relatively steady for several months. A decline in unemployment for women occurred among those 25-54 year old, also countering an increase in the previous month. The unemployment rate for white workers declined over the month, whereas the rate for black and other workers edged up slightly. Jobless rates for full-time workers and for workers in trade dropped, also a

return to their pre-May levels. (See tables A-33, A-36, and A-38.)

Long-term unemployment (joblessness of 15 or more weeks) increased in June, while there was a decline in the number of workers who had been unemployed less than 15 weeks. As a result of these developments, the average (mean) duration of unemployment rose a full week to 14.2 weeks in June. (See table A-37.)

Labor force and total employment

The civilian labor force typically swells in June, as large numbers of youth enter the labor force and either find jobs or continue to search for work. This June, the labor force increase was nearly 1.3 million, but this was only about half the amount expected based on patterns which have occurred in recent years. Thus, on a seasonally adjusted basis, there was a very substantial, 1.2 million, over-the-month labor force decline. Persons 16-24 years old, who make up only one-fifth of the labor force, accounted for four-fifths of the seasonally adjusted drop. These labor force developments affected both the unemployment (as discussed in the previous section) and employment estimates in June.

Total employment fell by 840,000 in June to 98.4 million (seasonally adjusted). This decline partially offset the unusually large job gains which had occurred since the beginning of the year, as employment returned to the March level. June employment declines took place among adult men and teenagers, while the employment level for adult women held steady. (See table A-33.)

Discouraged workers

The number of discouraged workers declined by about 100,000 in the second quarter of 1981 to 1.0 million, still well above pre-recession levels. (These are persons who report that they want to work but are not looking for jobs because they believe they cannot find any.) About 70 percent of the discouraged total attributed their situation to job-market factors, while the remainder cited personal factors. Women and blacks continued to be overrepresented among this group. (See table A-53.)

Industry payroll employment

The number of employees on nonagricultural payrolls was 91.5 million in June after adjustment for seasonality, unchanged from May. (See table B-4.) Over the longer term, total payroll jobs have increased by 1.6 million since last July's low point and were about 650,000 above the pre-recession peak of March 1980. While most industries have shown some job gains since last year's low, the major industries most affected by the recession, construction and manufacturing, have not yet returned to their previous peaks.

Due to the settlement of the coal miners' strike, mining jobs increased by 150,000, returning the total to just above the March pre-strike level. Construction employment, which had shown steady growth in the last half of 1980 and modest increases during the first 4 months of 1981, declined by 60,000 in June to 4.3 million. This marked the second straight monthly decline, returning the construction job total to its July 1980 recession low.

Manufacturing employment was unchanged over the month. A number of industries showed small improvements, including transportation equipment, but these increases were offset by reductions in several other industries, particularly food processing and lumber and wood products. Since last July's low point, total factory jobs have increased by about 530,000.

In the service-producing sector, the number of jobs in State and local government fell by 110,000, while employment rose by 25,000 in transportation and public utilities. Jobs in trade; services; and finance, insurance, and real estate held about steady over the month.

Hours of work

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls edged

down 0.1 hour to 35.3 hours in June. Based on recently revised seasonally adjusted data, the workweek has remained within the relatively narrow range of 35.1 to 35.4 hours for the last year and a half. In manufacturing, the workweek fell 0.2 hour to 40.1 hours, and overtime edged down 0.1 hour to 3.0 hours. (See table C-7.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls, at 108.8 (1977=100) in June, was virtually unchanged from May but was 2.7 percent above last July's low point. The manufacturing index fell 0.5 percent over the month to 100.2; the index was 5.6 percent above last July. (See table C-8.)

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonagricultural payrolls rose 0.7 percent over the month (seasonally adjusted). Average weekly earnings were up 0.4 percent from May. Before adjustment for seasonality, average hourly earnings increased 3 cents in June to \$7.20, 59 cents above the year-earlier level. Average weekly earnings were \$254.88, up \$2.50 from May and \$21.55 from June 1980. (See tables C-1 and C-9.)

The Hourly Earnings Index

The Hourly Earnings Index—earnings adjusted for overtime in manufacturing, seasonality, and the effects of changes in the proportion of workers in high-wage and low-wage industries—was 138.2 (1977=100) in June, 0.4 percent higher than in May. The Index was 8.9 percent above June a year ago. In dollars of constant purchasing power, the Index decreased 0.4 percent during the 12-month period ended in May. (See table C-9.)

BLS Establishment Estimates Revised to March 1980 Benchmarks

*Carol M. Utter and John B. Farrell

With the release of data for June 1981, the Bureau of Labor Statistics introduced revised establishment survey estimates of employment, hours, earnings, and labor turnover to reflect the most recent complete employment counts (benchmarks) for March 1980. The Bureau also introduced revised seasonally adjusted series and new seasonal factors, as is the usual practice with the introduction of the benchmarked data. In July 1980, the Bureau adopted the X-11 ARIMA¹ seasonal adjustment method to revise the historical series of seasonally adjusted data and to produce seasonal factors for the coming year. This year the Bureau is incorporating another feature of the X-11 ARIMA method—the use of projected data in determining seasonal factors. This step completes the switchover to the X-11 ARIMA method of seasonal adjustment. Also this year, aggregate weekly indexes of hours, payrolls, and the Hourly Earnings Index are being rebased from 1967 = 100 to 1977 = 100.

Benchmark adjustment procedure

BLS revises the establishment estimates annually to incorporate the most up-to-date employment information derived from unemployment insurance (UI) reports filed by employers with their State employment security agencies. These revisions affect employment series from March 1979 (the previous complete count) forward to the current month's estimate. Estimates of hours, earnings, and labor turnover, which are weighted by employment estimates, also may be revised as a result of the changes in employment levels.

The benchmark procedure serves as a quality control process by providing both a more accurate measure of employment levels and a more accurate perspective on trends. Normally, new benchmarks are determined for March of each year at the most detailed industrial classification for which estimates are made. The difference between the benchmark employment level for March and the corresponding estimate for March (projected from the benchmark for the previous March) is assumed to have accumulated at a constant rate over the

previous 12 months. Most series, therefore, are adjusted by applying a ratio to the estimates to “wedge out” the difference over the 12-month period from the new benchmark to the preceding one. The benchmark level (in this case, March 1980) is then projected forward to the current month based on the trend shown in monthly reports submitted by a sample of employers. The estimates adjusted to the new levels are then aggregated through successively larger groupings to total nonagricultural employment.

Effect of the current benchmark adjustment

The March 1980 benchmark for total nonagricultural employment—90.3 million—was 63,000 below the corresponding sample-based estimate, a difference of 0.1 percent (table 1). This was the smallest difference since 1977. Of the eight major industry divisions, only construction was revised by more than 1 percent. The revision accounted for 3.9 percent of the over the year difference in total nonagricultural employment between March 1979 and March 1980. Table 2 indicates the magnitude of the differences arising from the current and previous revisions, by year and industry division.

BLS monthly estimates of employment, hours, and earnings are published in considerable industry detail. Based upon the Standard Industrial Classification (SIC) system, estimates are prepared at the industry level (four-digit SIC) for manufacturing and at the industry group level (three-digit SIC) for most nonmanufacturing industries. Within the three-digit industry groups (manufacturing and nonmanufacturing) for which employment estimates are published, 30 of the 255 groups were revised by 5 percent or more. The largest

* Carol M. Utter is a statistician and John B. Farrell is an economist in the Division of Monthly Industry Employment Statistics, Office of Employment Structure and Trends, Bureau of Labor Statistics.

¹ The X-11 ARIMA program developed by the Seasonal Adjustment and Time Series Staff of Statistics Canada, is described in *The X-11 ARIMA Seasonal Adjustment Method*, by Estela Bee Dagum (Statistics Canada Catalogue No. 12-546E, February 1980). For a detailed account of the use of ARIMA models with other data, see “Revision of Seasonally Adjusted Labor Force Series” by Robert J. McIntire, in the January 1981 issue of *Employment and Earnings*.

Table 1. Comparison of nonagricultural employment estimates with benchmarks by industry division, March 1980

(Numbers in thousands)

Industry division	Estimate	Benchmark	Revision		Percent of year-to-year change ¹
			Amount	Percent	
Total	90,316	90,253	-63	-0.1	-3.9
Total private	73,871	73,720	-151	-.2	-12.9
Mining	996	990	-6	-.6	-9.7
Construction	4,150	4,087	-63	-1.5	(³)
Manufacturing	20,793	20,722	-71	-.3	-28.4
Transportation and public utilities	5,143	5,127	-16	-.3	-19.5
Trade	20,226	20,068	-158	-.8	-61.0
Wholesale	5,269	5,268	-1	(²)	-.8
Retail	14,957	14,800	-157	-1.1	-124.6
Finance, insurance, and real estate	5,085	5,090	5	.1	2.3
Services	17,478	17,636	158	.9	19.6
Government	16,445	16,533	88	.5	20.4
Federal	2,869	2,869	0	0	0
State and local	13,576	13,664	88	.6	29.1

¹ Percent of change from March 1979 to March 1980.
² Less than 0.05 percent.

³ Percent of year-to-year change is extremely large because base of percentage is close to zero.

Table 2. Percent differences between nonagricultural employment estimates and benchmarks by industry division, selected years, 1971-80

Industry division	March						
	1971	1973 ¹	1974	1977 ²	1978	1979	1980
Total	-0.2	1.6	0.1	0.1	0.7	0.5	-0.1
Mining .....	.2	3.5	3.0	2.7	1.9	.2	-.6
Construction	3.1	9.6	-.6	.6	1.6	-3.2	-1.5
Manufacturing	-.4	1.1	.1	-.4	.6	.4	-.3
Transportation and public utilities	-.9	.7	(³)	-1.8	.9	-.8	-.3
Trade	-.3	2.2	-.1	-.5	.4	.6	-.8
Finance, insurance and real estate	-.2	.5	1.1	1.0	1.0	.1	.1
Services	-.4	.9	.7	.6	1.2	.5	.9
Government	0	.5	-.5	.8	(⁴)	1.9	.5

¹ 1973 was a 2-year revision.
² The comparison for the detailed industry divisions is between estimates on the 1967 SIC and the 1972 SIC.
³ Less than 0.05 percent.
⁴ Estimates of State and local government were not revised.

industries in terms of employment tended to have the smallest percentage revisions (table 3). The March 1980 estimates and benchmark levels for the major industry groups (two-digit SIC) in manufacturing appear in table 4. Of the 20 major groups in this division, 13 were revised by 1 percent or less. Revisions were somewhat larger for the basic three- and four-digit industries. Over one half of these differed by less than 3 percent, but almost one fourth differed by 5 percent or more.

Why estimates differ from benchmarks

There are three basic reasons for the differences between benchmarks and estimates: (1) Errors in trend caused by nonrepresentative samples, (2) errors in adjustment for the entry of new firms, and (3) improvements in the quality of the benchmark data. A fourth reason for differences, which affects individual industry estimates but not the total, results from changes in industrial classification of individual establishments.

Table 3. Distribution of published 3-digit SIC industries by size of industry and percent difference between employment estimates and benchmarks, March 1980

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	255	36	40	65	114
0-0.9	77	4	11	21	41
1.0-2.9	100	11	14	25	50
3.0-4.9	48	11	12	10	15
5.0 and over ...	30	10	3	9	8

Table 4. Comparison of manufacturing employment estimates with benchmarks by major industry group, March 1980

(Numbers in thousands)

Industry group	Estimate	Benchmark	Revision	
			Amount	Percent
Manufacturing	20,793	20,722	-71	-0.3
Durable goods	12,647	12,609	-38	-.3
Lumber and wood products	716.9	719.1	2.2	.3
Furniture and fixtures	494.1	489.3	-4.8	-1.0
Stone, clay, and glass products	679.0	675.7	-3.3	-.5
Primary metal industries	1,203.7	1,215.3	11.6	1.0
Fabricated metal products	1,703.8	1,684.7	-19.1	-1.1
Machinery, except electrical	2,539.9	2,550.9	11.0	.4
Electric and electronic equipment	2,167.7	2,144.6	-23.1	-1.1
Transportation equipment	2,005.6	1,988.4	-17.2	-.9
Instruments and related products	703.6	711.0	7.4	1.0
Miscellaneous manufacturing	432.9	430.0	-2.9	-.7
Nondurable goods	8,146	8,113	-33	-.4
Food and kindred products	1,641.1	1,655.2	14.1	.9
Tobacco manufactures	64.4	64.9	.5	.8
Textile mill products	886.9	876.0	-10.9	-1.2
Apparel and other textile products	1,318.4	1,292.3	-26.1	-2.0
Paper and allied products	701.8	702.2	.4	.1
Printing and publishing	1,272.1	1,257.5	-14.6	-1.2
Chemicals and allied products	1,118.1	1,113.4	-4.7	-.4
Petroleum and coal products	153.1	152.1	-1.0	-.7
Rubber and miscellaneous plastics products	746.5	762.7	16.2	2.1
Leather and leather products	243.4	236.6	-6.8	-2.9

A primary reason for differences between estimates and benchmarks lies in the limitation of any sample in representing a universe; that is, a certain amount of error is to be expected from sample-derived estimates. A complete monthly count of employment would reflect all changes in the level from month to month, but complete coverage involving 4-5 million employer reports each month would be prohibitively expensive and time consuming. The BLS establishment series, derived from a sample of approximately 166,000 reports, provides estimates at moderate cost within a month following the reference week. Annual benchmark revisions, which are an integral part of the survey program, remove the effect of sampling errors from the all-employee estimates.

Given the limitation of sample-based estimates, a second reason for benchmark differences arises from errors in adjusting for the entry of new firms. For the establishment survey, BLS uses the benchmark link-relative estimating technique, which is a form of ratio estimation. The employment estimates for a month are projected from the levels estimated for the previous month based on the change in the employment indicated

by the firms responding to the survey. It is difficult to include reports from newly formed businesses in a timely manner. This type of omission may be a source of error in the estimates for an industry that is characterized by the formation of numerous new firms. On the other hand, the sample does reflect business deaths—business that discontinue operations.

BLS has developed bias adjustment factors which are applied to the employment estimates to correct for the underrepresentation of business births and for other biases in the estimates. These factors, which vary by industry, are based on past experience and are reviewed and recalculated as part of the benchmarking process. This year, the bias adjustment factors for all industries except construction are based on trends between 1976 and 1980. Using the new factors, the March 1980 to March 1981 change in total nonagricultural employment was 467,000. This compares with a change of 501,000 using the old factors.

A third cause of differences arises from improvements in the quality of the benchmark source data. Although relatively infrequent, improvements in

the source data can introduce substantial changes in the levels of certain sectors. For example, in July 1980, with the introduction of the March 1979 benchmark, estimates for State and local government employment were benchmarked for the first time using data derived from UI records. This was made possible through the expansion of UI coverage to most employees of State and local governments in January 1978. The use of the new source of data resulted in a large revision in the employment estimates for this division.

A fourth reason for differences between estimates and benchmarks is the procedure used to keep the industrial classification of establishments up to date. An establishment is classified by industry according to its major activity, which is determined by the principal product produced or handled, or service rendered. An establishment may engage in more than one activity. If its output of products or services changes so that what was once a secondary product or activity becomes a primary one, the establishment is reclassified to the industry of its new major activity. These changes are introduced into the employment estimates at the time of the benchmark adjustment, based on annual product and activity reports. Thus, differences between estimates and benchmarks for a particular industry may result when the estimates are linked forward from benchmark levels which do not reflect intervening classification changes for individual establishments.² At the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments.

Benchmark source material

UI records are the primary source of benchmark data. With the expansion in coverage in January 1978, UI programs now cover approximately 98 percent of employees in the total nonagricultural sector and 97 percent of those in the private nonagricultural sector.

For the few remaining industries exempt from mandatory UI coverage, BLS uses other sources. 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. Data for interstate railroads are obtained from the Interstate Commerce Commission; benchmarks for private elementary and secondary schools are derived from data obtained from the U.S. Office of Education and the National Catholic Welfare Association. Employment figures for religious organizations are obtained from data provided by the National Council of Churches and recent surveys of churches conducted by several State agencies.

Employment counts for the Federal Government are derived from official summaries prepared by the Office of Personnel Management (OPM). These summaries are complete counts of Federal workers and are not subject

to benchmark revisions.³ The official OPM summaries do not provide detail on Federal employment by industry, such as hospitals, on a current monthly basis. These are projected by BLS from a sample of Federal establishments.

The Bureau's reporting sample is also an important source of benchmark information. Since sample reports are current and are reviewed monthly, reporting errors that are detected and corrected in the sample reports can also be corrected in the corresponding benchmark reports. The industry classification of each sample establishment is reviewed on the basis of information supplied by the employer. Changes in industry classification of sample reports often precede such changes in other sources of information. Insofar as sample reports are known to differ from the corresponding employer's reports included in other benchmark source material, the data from the other sources are modified accordingly.

Relation of employment benchmarks to other series

Complete counts for the series on women, production workers, hours, earnings, and labor turnover actions are not available. These series are produced by applying an estimated ratio of women and production workers to the estimated all-employee figures or the average hours, earnings, or labor turnover rates derived monthly from the BLS reporting sample. For primary estimating cells, i.e. region and/or size strata within the most detailed industry classifications, the women-worker/all-employee ratio, the production-worker/all-employee ratio, average weekly hours, average hourly earnings, and labor turnover rates are estimated directly from reported figures. Series for broader industry groupings, however, require a weighting mechanism to yield meaningful averages. The production or nonsupervisory worker employment estimates for the primary cells are used as weights for the hours and earnings estimates for the broader industry groupings. The estimates of all employees for the primary cells are used as weights for the labor turnover rates 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 labor turnover, employment of women, and employment, hours, and earnings of production and nonsupervisory workers. For employment estimates—women and production or nonsupervisory workers—the revisions at the estimating cell level are added to become the summary level revisions. To influence the hours, earnings, and labor turnover averages of a broader group, employment changes have to be

² The changes are wedged or tapered into the estimates over the year in which the change in primary activity took place.

³ Employees of the Central Intelligence Agency, the National Security Agency, and employees of the Department of Defense paid from nonappropriated funds are not included in the OPM summaries or these series.

Table 5. Comparison of hours, earnings, and labor turnover estimates based on previous (1979) benchmarks with estimates revised to March 1980 benchmarks by industry division and selected major industry group, March 1980

Industry division and group	Average weekly hours			Average hourly earnings			Labor turnover accession rates (per 100 employees)		
	Previous estimate	Revised estimate	Revision	Previous estimate	Revised estimate	Revision	Previous estimate	Revised estimate	Revision
Total private	35.2	35.2	0	\$6.51	\$6.50	-\$0.01	-	-	-
Mining	43.4	43.4	0	8.95	8.94	-.01	5.1	5.1	0
Construction	36.2	36.2	0	9.68	9.66	-.02	-	-	-
Manufacturing	39.8	39.8	0	7.06	7.07	.01	3.5	3.5	0
Durable goods	40.3	40.3	0	7.54	7.54	0	3.1	3.2	.1
Lumber and wood products	38.3	38.3	0	6.35	6.32	-.03	4.4	4.3	-.1
Furniture and fixtures	38.5	38.5	0	5.37	5.38	.01	4.0	4.0	0
Stone, clay, and glass products	40.7	40.7	0	7.27	7.26	-.01	3.9	3.9	0
Primary metal industries	40.7	40.7	0	9.45	9.46	.01	2.7	2.7	0
Fabricated metal products	40.6	40.6	0	7.24	7.25	.01	3.6	3.6	0
Machinery, except electrical	41.5	41.5	0	7.76	7.75	-.01	2.5	2.5	0
Electric and electronic equipment	40.0	40.0	0	6.78	6.76	-.02	2.9	2.9	0
Transportation equipment	40.4	40.4	0	9.04	9.01	-.03	3.1	3.1	0
Instruments and related products	40.6	40.6	0	6.63	6.62	-.01	2.8	2.8	0
Miscellaneous manufacturing	38.8	38.8	0	5.34	5.36	.02	4.6	4.7	.1
Nondurable goods	38.9	39.0	.1	6.30	6.32	.02	4.0	4.0	0
Food and kindred products	39.0	39.1	.1	6.68	6.68	0	5.2	5.2	0
Tobacco manufactures	37.7	37.7	0	7.57	7.62	.05	1.9	1.9	0
Textile mill products	40.9	40.9	0	4.92	4.93	.01	4.3	4.3	0
Apparel and other textile products	35.4	35.4	0	4.49	4.48	-.01	5.4	5.4	0
Paper and allied products	42.4	42.4	0	7.55	7.54	-.01	2.4	2.5	.1
Printing and publishing	37.2	37.2	0	7.34	7.34	0	3.1	3.1	0
Chemicals and allied products	41.7	41.7	0	8.05	8.06	.01	1.7	1.7	0
Petroleum and coal products	39.4	39.4	0	9.29	9.30	.01	2.2	2.2	0
Rubber and miscellaneous plastics products	40.0	40.0	0	6.27	6.31	.04	4.1	4.0	-.1
Leather and leather products	36.4	36.4	0	4.51	4.52	.01	7.1	7.2	.1
Transportation and public utilities	39.5	39.5	0	8.62	8.61	-.01	-	-	-
Trade	32.0	32.0	0	5.40	5.40	0	-	-	-
Finance, insurance, and real estate	36.3	36.3	0	5.68	5.68	0	-	-	-
Services	32.5	32.5	0	5.75	5.75	0	-	-	-

relatively large and must affect industries which have substantially higher or lower averages than the other industries in their group. Generally speaking, new benchmarks do not change hours, earnings, and labor turnover series for groupings by more than 0.1 hour, 1 cent, or 0.1 per 100 employees, respectively. The changes in the hours, earnings, and labor turnover estimates for broad industry categories are shown in table 5.

Revision of seasonally adjusted data

As is the usual practice, BLS has revised all seasonally adjusted series after incorporating the changes in the unadjusted levels caused by the benchmark revision and the addition of the most recent year of data for the calculation of new seasonal adjustment factors for the coming year. In July 1980, the Bureau introduced an improved seasonal adjustment methodology—the X-11 ARIMA (Auto Regressive Integrated Moving Average) program, which is an extension of the Census X-11 method. This year, ARIMA models used to project or extrapolate the data series for 1 year ahead have been incorporated for the first time in seasonally adjusting the establishment-based series.

Seasonal factors were not computed for a number of series⁴ which are characterized by small seasonal components relative to their trend-cycle and/or irregular components. The unadjusted series is shown and used in the aggregation to broader level seasonally adjusted series for those series so identified.

ARIMA projections were not used in a small number of series where the projections could not meet test requirements.⁴ Later reviews and continuing research may result in a decision to change models for some series in subsequent revisions.

Some series require special adjustments. The retail trade employment series is affected by abrupt shifts in employment during the Christmas season and is also affected significantly by the shifting date of Easter. This series is subjected to special seasonal adjustment procedures. In the seasonal adjustment of the employment series for the transportation equipment industry, the shifting dates of automobile plant retoolings are taken into account. The Federal Government series is adjusted to remove the effect of the temporary hiring of postal workers during the Christmas season.

Seasonal factors used to adjust labor turnover data reflect the variation in the number of times a day of the week (Monday, for example) falls in a particular month. To eliminate this calendar irregularity, the Bureau used the "trading day" factor option in the X-11 ARIMA program for all labor turnover series except recalls. Programmed options cannot be used for this (new) series until a sufficient number of years of data have been accumulated.

In past years, the updating of the seasonal adjustment factors to include the most recent year's experience has

had very little impact on the employment series. In other words, while the revised benchmark levels and corrected bias adjustment factors would combine to affect the level of the employment series, very little difference could be attributed to a change in the seasonal pattern. The latest addition of 12 months' (April 1980 to March 1981) experience, however, caused a notable smoothing of the over-the-month changes in 1980 and 1981. The introduction of the ARIMA projection methodology also contributed to this change, but not to a significant extent. As shown in table 6, the over-the-month changes for 13 of the 15 months between January 1980 and March 1981 were smaller in magnitude in the revised series than in the previously published series.

Table 6. Comparison of over-the-month changes in seasonally adjusted total nonagricultural employment (In thousands)

Month	Revised series	Previous series	Difference
1980: January	151	353	-202
February	178	155	23
March	6	-42	48
April	-54	-193	139
May	-371	-483	112
June	-359	-421	62
July	-127	-180	53
August	259	275	-16
September	242	242	0
October	207	326	-119
November	176	251	-75
December	105	164	-59
1981: January	142	356	-214
February	167	172	-5
March	89	52	37

Rebasing of indexes

Coincident with the introduction of the March 1980 benchmark and revised seasonally adjusted data, the reference base period for the indexes of aggregate weekly hours, aggregate weekly payrolls, and the Hourly Earnings Index was converted from 1967=100 to 1977=100. This was done in accordance with Directive No. 5 of the Office of Federal Statistical Policy and Standards. The reference base period for general-purpose statistical index numbers prepared by Federal agencies is updated approximately once every 10 years to insure that the makeup of the index approximates the current structure of the economy and facilitates comprehension of rates of change by using a base period that is not too distant in time. All of the above-

⁴ The series are identified in tables 8 through 14.

mentioned indexes have been recalculated back to the date of their origin. In addition to the rebasing of the indexes, the constant dollar series will reflect 1977 dollars instead of 1967 dollars. The rebased Hourly Earnings Index appears in table 16.

Publication of revised historical data

Revised historical data for detailed industry categories of employment, hours, earnings, and labor turnover will be presented in a supplement to *Employment and Earnings* to be issued in August. Revised seasonally adjusted data will be shown for January 1976 through March 1981; unadjusted data will be shown from January 1977 through March 1981.³ Rebased indexes for aggregate weekly hours, aggregate weekly payrolls, and the constant dollar series will be shown back to the date of their origin. Data for earlier time periods for all other series can be found in *Employment*

and Earnings, United States, 1909-78 (BLS Bulletin 1312-11), issued in 1979.

Monthly employment estimates are published for most of the significant industries in the nonagricultural sector. Those industries for which monthly data are not published either are too small or are not represented by a sufficient sample. However, the March benchmark figures for a number of such industries are published in table 7.

Seasonal adjustment factors are recalculated annually and updated factors are published in conjunction with the benchmark revisions. The seasonal factors that will be used for the period April 1981 through March 1982 for all establishment series are shown in tables 8 through 15.

³ As a convenience to users, seasonally adjusted data for 1974 and 1975 will also be displayed. The August 1981 supplement will thus supplant all data in the September 1980 supplement.

Table 7. Employment benchmarks for Industries not published monthly, March 1972-80.

(In thousands)

Industry	1972 SIC CODE	March 1972 ¹	March 1973	March 1974 ¹	March 1975	March 1976	March 1977	March 1978	March 1979	March 1980
Total.....	-	72,138	75,422	77,362	75,686	78,092	80,493	84,455	88,654	90,253
Total private.....	-	58,717	61,568	63,089	60,789	62,967	65,294	68,729	72,552	73,720
Goods-producing.....	-	22,905	24,174	24,570	21,951	22,728	23,488	24,554	25,993	25,799
Mining.....	10-14	618	620	665	730	761	805	699	928	990
Lead and zinc ores.....	103	7.3	7.0	7.4	8.1	8.0	7.8	7.3	6.2	6.9
Other metal ores.....	104-6,8,9	16.9	15.3	18.9	21.7	23.9	27.3	31.4	35.4	38.5
Anthracite mining.....	11	4.0	3.9	3.7	3.6	3.6	3.3	3.1	3.1	3.3
Crude petroleum and natural gas.....	131	139.9	135.0	135.6	146.4	154.1	159.3	173.5	185.3	205.7
Natural gas liquids.....	132	3.7	3.6	3.8	4.1	4.0	4.2	4.2	4.7	5.5
Nonmetallic minerals, exc. fuels, nec.....	141,5,8,9	17.4	17.3	18.6	18.5	18.1	18.1	19.0	18.9	20.3
Construction.....	15-17	3,553	3,718	3,878	3,235	3,276	3,430	3,733	4,093	4,087
Concrete work.....	177	89.4	99.4	111.8	72.3	80.1	87.3	96.4	105.3	100.2
Water well drilling.....	178	14.1	14.7	16.0	15.4	16.2	19.0	19.7	19.5	18.7
Misc. special trade contractors.....	179	272.7	300.8	315.3	277.8	275.2	287.4	307.3	342.4	351.1
Manufacturing.....	20-39	18,734	19,836	20,027	18,000	18,691	19,253	20,122	20,971	20,722
Durable goods.....	24,25,32-39	10,773	11,664	11,876	10,634	10,861	11,322	11,992	12,744	12,609
Special product sawmills, nec.....	2429	6.1	6.6	7.3	6.0	6.3	6.8	7.0	6.6	6.0
Structural wood members, nec.....	2439	10.9	11.7	11.3	8.3	9.7	12.1	15.1	17.0	15.9
Nailed and lock corner wood boxes and shooks.....	2441	12.0	12.5	12.8	9.7	10.2	10.0	9.0	8.9	8.0
Wood pallets and skids.....	2448	17.9	19.1	22.1	16.8	18.9	20.7	22.6	27.8	26.6
Wood containers, nec.....	2449	14.8	14.7	13.8	10.9	11.1	10.7	10.9	10.8	10.3
Prefabricated wood buildings and components.....	2452	27.4	27.2	22.7	17.6	19.6	21.3	25.1	25.0	20.4
Wood preserving.....	2491	12.5	12.8	13.3	12.9	11.8	12.5	13.0	13.5	13.8
Particleboard and wood products, nec.....	2492,9	63.9	69.5	70.2	55.8	62.7	64.6	69.1	71.2	70.5
Wood TV, radio, phonograph, and household furniture.....	2517,9	18.1	19.0	19.1	14.2	14.0	14.8	16.8	15.9	14.0
Wood office furniture.....	2521	12.1	12.8	13.5	11.3	11.7	14.0	16.2	17.1	18.8
Metal office furniture.....	2522	28.4	30.0	32.5	27.3	25.1	26.7	29.7	32.2	32.1
Wood partitions and fixtures.....	2541	29.0	31.8	31.5	25.9	28.0	29.8	32.1	33.3	33.3
Metal partitions and fixtures.....	2542	24.6	26.9	27.2	24.1	24.1	26.5	28.2	30.1	31.5
Drapery hardware & blinds & shades.....	2591	13.8	14.7	15.3	12.2	13.1	14.2	16.0	16.5	16.8
Furniture and fixtures, nec.....	2599	10.2	10.9	10.3	9.9	9.3	10.2	11.1	11.8	11.2
Brick and structural clay tile.....	3251	24.9	26.1	25.6	18.0	20.0	20.1	21.6	22.0	20.1
Clay refractories.....	3255	12.3	13.2	13.8	13.4	11.7	13.0	12.9	14.1	14.1
Other structural clay products.....	3253,9	18.4	18.0	18.8	14.8	14.4	14.3	14.8	15.8	14.5
Vitreous plumbing fixtures.....	3261	10.3	11.0	11.5	8.6	9.8	10.2	11.3	11.2	12.7
Vitreous china and earthenware food utensils.....	3262,3	10.1	11.0	9.8	9.7	9.8	8.9	9.5	9.4	10.5
Porcelain electrical supplies.....	3264	10.8	11.9	12.6	11.3	10.2	10.7	10.8	10.7	13.0
Pottery products, nec.....	3269	11.7	12.4	13.5	13.3	14.8	14.9	14.6	15.3	13.0
Lime and gypsum products.....	3274,5	21.7	22.2	22.1	19.8	19.8	19.7	21.0	21.7	21.6
Cut stone and stone products.....	328	13.4	13.8	13.4	12.3	11.9	12.1	11.9	12.1	11.7
Gaskets, packing and sealing devices.....	3293	23.6	27.4	30.0	22.7	24.6	25.9	27.9	29.3	27.9
Minerals, ground or treated.....	3295	13.2	13.6	15.0	14.6	13.9	14.8	14.7	16.3	16.2
Nonclay refractories and non- metallic mineral products, nec.....	3297,9	14.7	16.6	17.6	15.8	16.3	15.4	17.5	18.3	18.3
Electrometallurgical products.....	3313	14.6	15.5	15.9	15.7	13.5	14.8	14.1	14.7	14.6
Steel wire and related products.....	3315	20.9	21.9	22.8	20.3	20.7	20.8	23.1	25.9	22.7
Cold finishing of steel shapes.....	3316	16.6	18.5	19.4	17.0	16.5	17.8	19.8	20.5	19.0
Steel investment foundries.....	3324	8.7	10.1	9.7	8.3	8.5	9.7	11.9	11.6	12.3
Primary copper.....	3331	17.6	17.7	17.2	17.4	15.3	15.7	15.7	15.5	15.6
Primary lead and zinc.....	3332,3	9.0	9.2	9.5	9.8	9.4	9.2	9.4	9.6	8.1
Primary nonferrous metals, nec.....	3339	8.3	8.3	10.2	10.5	10.8	10.0	10.1	10.3	11.8
Secondary nonferrous metals.....	334	17.5	17.8	20.4	18.9	19.3	20.6	21.6	24.4	25.4
Aluminum extruded products.....	3354	30.2	31.3	32.4	24.2	25.5	30.3	33.9	33.3	33.6
Aluminum and nonferrous rolling and drawing, nec.....	3355,6	22.1	23.4	25.6	22.3	21.5	22.9	23.6	24.8	26.0
Brass, bronze, and copper foundries.....	3362	17.2	19.5	20.7	18.6	17.9	18.7	19.2	20.4	20.6
Nonferrous foundries, nec.....	3369	18.9	21.5	19.1	15.1	18.2	20.3	20.3	22.0	21.1
Misc. primary metal products.....	339	17.7	19.1	20.6	18.6	18.8	20.9	23.0	25.1	26.8

See footnotes at end of table.

Table 7. Employment benchmarks for industries not published monthly, March 1972-80—Continued

(In thousands)

Industry	1972 SIC CODE	March 1972 ¹	March 1973	March 1974 ¹	March 1975	March 1976	March 1977	March 1978	March 1979	March 1980
Primary metal products, nec.....	3399	7.8	8.7	9.8	8.1	8.4	9.6	10.1	11.4	12.6
Metal barrels, drums, and pails.....	3412	12.9	12.7	13.2	11.8	12.5	13.1	13.3	13.9	13.2
Cutlery.....	3421	13.9	14.5	15.2	14.7	14.9	15.3	16.0	15.9	16.3
Metal sanitary ware.....	3431	12.5	13.2	12.8	8.8	9.9	10.5	11.2	11.5	10.8
Prefabricated metal buildings.....	3448	16.1	20.4	24.4	17.7	19.8	20.1	25.4	27.6	28.8
Misc. metal work.....	3449	8.4	9.6	12.2	10.4	8.9	8.6	10.3	10.7	10.2
Nonferrous forgings and crowns and closures.....	3463,6	9.3	9.8	10.3	10.3	10.0	11.3	10.9	11.2	13.0
Steel springs, except wire.....	3493	7.9	8.1	8.2	7.0	8.2	8.5	8.4	9.0	7.6
Wire springs.....	3495	14.7	15.9	16.4	12.8	13.4	15.0	16.1	16.6	15.4
Fabricated pipe and fittings.....	3498	22.9	23.3	23.4	24.1	24.7	24.4	26.0	27.1	27.2
Metal foil and leaf, and fabricated pipe fittings.....	3497,9	45.3	48.1	49.1	40.8	44.3	46.9	49.0	49.6	49.7
Lawn and garden equipment.....	3524	16.6	19.5	19.7	18.8	18.0	18.8	20.7	23.9	25.7
Elevators and moving stairways.....	3534	16.6	16.7	16.3	14.1	11.7	11.4	11.9	12.8	13.4
Hoists, cranes, and monorails.....	3536	16.6	18.0	19.6	19.7	19.3	20.0	16.9	19.7	23.3
Rolling mill machinery.....	3547	11.4	11.9	13.5	14.3	12.8	10.4	10.2	11.5	11.4
Metalworking machinery, nec.....	3549	13.1	13.1	13.7	12.9	11.5	12.4	13.1	14.4	14.9
Woodworking machinery.....	3553	10.3	12.1	13.4	11.2	10.7	11.2	12.4	13.3	14.3
Paper industries machinery.....	3554	14.3	16.2	18.4	19.0	17.9	18.2	18.0	19.3	18.9
Special industry machinery, nec.....	3559	48.5	53.0	58.2	56.2	52.5	54.1	57.0	60.8	63.8
Industrial patterns.....	3565	9.4	10.3	10.7	9.6	9.4	10.0	10.4	10.7	10.4
Industrial furnaces and ovens.....	3567	16.9	18.9	20.5	18.4	17.5	18.0	19.5	19.9	21.6
General industrial machinery, nec...	3569	39.7	42.1	45.2	43.8	42.9	41.9	44.2	48.2	48.3
Office machines, scales and balances, exc. laboratory.....	3576,9	31.7	32.0	35.0	31.8	30.7	35.1	35.2	41.3	42.3
Automatic merchandising machines....	3581	10.2	10.9	12.8	7.1	7.8	7.7	9.8	10.5	10.4
Commercial laundry equipment.....	3582	6.2	6.4	6.2	5.4	5.6	5.8	6.0	5.9	5.6
Measuring and dispensing pumps and service ind. mach., nec.....	3586,9	35.8	37.5	38.7	37.3	37.0	37.1	38.1	42.2	41.6
Welding apparatus, electric.....	3623	14.1	15.7	17.0	17.2	15.6	16.7	18.3	19.6	18.9
Carbon and graphite products.....	3624	12.7	13.6	14.4	13.4	12.6	13.4	13.1	13.9	14.1
Electrical industrial apparatus, nec	3629	11.0	12.7	14.1	11.2	10.7	11.8	13.8	14.3	13.9
Household cooking equipment.....	3631	22.4	25.2	20.9	16.4	21.9	24.3	25.6	25.0	27.6
Other household appliances.....	3635,6,9	34.4	38.1	39.3	29.6	33.5	33.0	37.3	37.0	34.6
Commercial lighting fixtures.....	3646	16.3	17.4	18.3	14.2	13.4	14.6	15.3	17.3	17.1
Vehicular & lighting equipment, nec.	3647,8	20.1	21.2	21.5	19.3	23.0	22.7	25.3	27.9	25.3
Phonograph records.....	3652	23.9	25.3	24.0	20.5	24.2	24.0	27.1	27.9	24.2
Electronic capacitors.....	3675	18.9	22.2	25.0	15.7	18.6	20.3	23.6	25.6	28.4
Electronic resistors and connectors.	3676,8	10.0	12.0	17.1	13.6	12.9	15.9	19.0	21.7	21.7
Electronic coils and transformers...	3677	15.5	18.8	20.7	15.1	17.2	20.2	22.4	25.6	27.7
Primary batteries, dry and wet.....	3692	11.0	12.1	13.7	11.1	12.8	14.7	16.2	16.0	15.5
X-ray apparatus and tubes.....	3693	11.6	13.3	15.0	17.0	17.9	18.3	22.7	25.6	25.2
Other misc. electrical equipment....	3699	13.9	14.1	13.8	10.7	11.2	14.9	16.2	14.9	14.4
Motorcycles, bicycles, and parts....	375	17.5	19.7	20.5	13.9	17.1	17.3	19.1	18.6	21.8
Space propulsion units and other space vehicle equipment.....	3764,9	17.0	15.9	14.1	13.8	14.6	18.0	18.4	20.0	22.1
Other transportation equipment.....	3795,9	15.1	16.9	15.7	16.2	17.4	19.1	20.9	22.5	22.5
Fluid meters and counting devices...	3824	13.6	13.9	15.2	13.5	13.3	14.3	14.6	17.5	18.1
Measuring and controlling devices, nec.....	3829	17.1	17.7	18.5	17.7	17.5	19.1	21.2	22.2	22.4
Dental equipment and supplies.....	3843	11.9	12.7	14.5	14.9	15.4	16.9	16.9	17.7	17.4
Silverware and plated ware.....	3914	10.9	11.9	12.7	11.2	11.6	11.6	11.7	11.8	11.3
Jewelers' materials and lapidary work.....	3915	7.1	8.0	8.1	8.0	9.3	9.0	9.6	9.2	8.0
Pens and mechanical pencils.....	3951	10.7	11.7	12.3	9.9	11.3	11.2	12.2	12.3	12.1
Lead pencils and art goods.....	3952	8.5	8.6	9.1	8.3	9.0	8.9	9.6	9.5	9.5
Marking devices, carbon paper and inked ribbons.....	3953,5	13.4	14.1	14.2	12.9	13.8	14.2	14.8	16.4	16.9
Artificial flowers and buttons.....	3962,3	10.5	11.1	10.4	8.9	9.9	8.9	8.9	8.6	8.4
Needles, pins, and fasteners.....	3964	21.6	21.7	20.2	16.4	17.5	19.6	19.4	19.0	19.0
Brooms and brushes.....	3991	16.9	18.3	17.4	15.2	17.3	18.1	17.8	17.2	18.0
Burial caskets.....	3995	14.9	14.9	14.5	13.6	12.8	12.5	12.7	12.2	12.0

See footnotes at end of table.

Table 7. Employment benchmarks for industries not published monthly, March 1972-80—Continued

(In thousands)

Industry	1972 SIC CODE	March 1972 ¹	March 1973	March 1974 ¹	March 1975	March 1976	March 1977	March 1978	March 1979	March 1980
Nondurable goods.....	20-23,26-31	7,961	8,172	8,151	7,366	7,830	7,931	8,130	8,227	8,113
Poultry and egg processing.....	2017	13.2	13.5	14.9	12.8	14.5	13.6	12.9	15.2	15.2
Creamery butter and condensed and evaporated milk.....	2021,3	18.3	17.4	17.6	17.7	16.4	15.4	14.9	15.7	17.9
Ice cream and frozen desserts.....	2024	20.5	21.3	19.6	19.4	18.8	19.4	18.2	19.4	19.1
Dehydrated fruits, soups, and vegetables.....	2034	15.1	13.8	15.4	14.4	16.3	16.8	16.6	17.9	16.7
Pickles, sauces, and salad dressings	2035	22.4	21.5	23.1	21.0	23.8	23.0	24.3	23.3	24.1
Frozen specialties.....	2038	24.2	26.6	27.1	23.6	27.1	29.3	31.9	34.2	34.7
Cereal breakfast foods.....	2043	13.6	14.9	15.8	16.1	16.1	16.8	16.4	16.0	16.6
Wet corn milling.....	2046	16.2	14.4	14.2	13.5	12.3	13.3	13.0	12.9	12.7
Dog, cat, and other pet food.....	2047	13.6	14.6	16.1	16.9	17.7	16.6	17.8	17.5	16.7
Rice milling and blended and prepared flour.....	2044,5	10.2	10.7	11.7	11.9	11.6	12.3	12.6	13.7	13.8
Chocolate and cocoa products and chewing gum.....	2066,7	20.9	19.9	19.4	16.9	19.4	20.0	18.9	19.8	19.5
Oil mills.....	2074,5,6	16.0	16.7	17.7	17.3	17.5	16.2	18.5	19.4	20.3
Animal and marine fats and oils.....	2077	11.4	11.4	11.6	11.4	10.8	12.5	11.1	11.0	10.8
Shortening and cooking oils.....	2079	11.4	11.4	12.3	12.7	13.5	12.9	13.3	14.3	13.4
Malt and other flavoring extracts and syrups.....	2083,7	12.2	12.9	13.4	13.3	13.2	13.2	14.2	14.2	14.4
Wines, brandy, and brandy spirits...	2084	9.7	10.6	11.5	12.6	11.5	11.1	12.9	12.4	12.6
Distilled liquor, exc. brandy.....	2085	22.1	20.7	19.8	19.0	19.3	18.5	18.5	18.5	18.4
Canned and cured seafoods.....	2091	17.1	15.9	18.0	16.4	16.7	17.7	18.5	17.6	15.9
Fresh or frozen packaged fish.....	2092	29.2	27.8	27.5	24.5	26.8	28.6	30.8	33.2	33.5
Roasted coffee.....	2095	14.6	14.6	15.3	14.1	14.2	13.8	13.7	13.3	13.0
Misc. food preparation.....	2097-9	86.4	87.4	88.1	83.6	87.4	92.1	96.8	96.5	97.3
Cigars.....	212	15.2	14.7	14.5	12.4	10.4	9.4	9.1	8.3	7.5
Other tobacco manufactures.....	213,4	15.0	14.3	13.3	14.1	12.7	13.7	14.3	14.2	12.1
Knit fabric and knitting mills, nec.	2258,9	28.9	29.0	30.0	25.9	26.7	24.7	25.1	26.3	24.5
Finishing plants, nec.....	2269	19.0	20.0	20.3	15.6	18.4	17.3	16.4	16.4	17.1
Wool yarn mills.....	2283	15.8	17.6	14.7	10.2	10.9	11.7	10.9	9.9	10.2
Thread mills.....	2284	11.7	12.5	11.9	8.3	10.9	11.0	10.9	10.1	11.6
Coated fabrics, not rubberized.....	2295	13.1	13.7	13.0	10.8	12.8	12.7	12.0	11.7	12.4
Tire cord and fabric.....	2296	11.6	12.1	12.8	10.9	11.8	12.0	11.0	11.5	10.8
Cordage and twine.....	2298	11.1	11.1	11.8	9.9	10.0	10.7	10.5	10.5	9.7
Other textile goods.....	2291-4,7,9	36.0	37.1	37.9	31.7	35.9	34.6	36.6	36.6	36.7
Men's and boys' underwear.....	2322	20.5	19.9	19.0	13.9	15.7	15.9	16.5	17.3	16.1
Men's and boys' neckwear.....	2323	10.1	10.3	9.2	6.5	7.5	6.7	7.2	6.8	6.7
Men's and boys' clothing, nec.....	2329	56.1	59.1	57.4	49.2	55.6	57.7	60.7	58.5	62.1
Hats, caps, and millinery.....	2351,2	14.2	15.6	15.1	15.2	15.7	15.4	15.6	16.4	18.3
Children's coats and suits.....	2363	8.7	9.8	8.8	7.5	8.8	8.1	8.2	7.5	7.0
Children's outerwear, nec.....	2369	27.2	36.3	34.3	30.6	34.6	34.0	33.9	31.8	31.0
Fur goods.....	237	4.7	4.3	3.5	3.6	4.0	4.0	4.2	4.3	3.8
Fabric dress and work gloves.....	2381	13.5	15.4	16.6	12.5	12.3	13.9	14.5	15.2	13.2
Robes and dressing gowns.....	2384	12.4	12.5	12.4	9.2	11.1	11.3	11.7	11.1	10.6
Waterproof outer garments.....	2385	18.1	17.9	16.1	14.0	14.5	13.6	13.1	12.6	12.3
Apparel and accessories, nec.....	2386,7,9	20.8	21.4	20.4	19.9	22.5	21.6	21.8	20.4	19.9
Textile bags.....	2393	7.7	8.0	8.7	7.4	8.1	8.5	9.3	9.4	9.8
Canvas and related products.....	2394	14.1	15.3	15.1	13.0	13.3	13.4	13.9	14.8	15.0
Pleating and stitching.....	2395	17.6	16.9	16.4	13.5	15.2	15.0	17.2	16.1	16.2
Other fabricated textile products...	2397,9	24.2	34.7	30.7	24.4	30.0	29.9	29.7	33.2	30.8
Pulp mills.....	261	13.4	13.9	14.3	14.1	15.6	16.8	17.3	15.8	16.5
Building paper and board mills.....	266	13.4	14.0	13.9	11.2	11.8	12.1	13.5	12.8	12.4
Die-cut paper and board.....	2645	16.7	18.5	18.5	16.0	16.9	17.2	17.4	17.6	17.5
Sanitary paper products.....	2647	15.4	16.5	16.3	15.3	19.3	22.3	25.5	25.5	26.6
Other converted paper products.....	2646,8,9	40.8	42.0	45.2	38.6	41.2	42.6	44.9	44.1	45.6
Set-up paperboard boxes.....	2652	16.3	16.1	15.8	12.1	13.6	13.3	13.0	12.6	11.9
Fiber cans, drums, and similar products.....	2655	18.1	20.7	21.6	18.0	19.0	18.5	19.0	19.4	18.9
Engraving and plate printing.....	2753	12.3	12.8	12.7	11.1	11.6	11.6	11.2	11.5	11.2
Commercial printing, gravure.....	2754	9.0	9.3	8.4	7.8	7.8	10.0	12.0	10.9	11.3
Greeting card publishing.....	277	21.2	22.9	22.5	21.9	20.0	21.0	22.0	23.0	24.0

See footnotes at end of table.

Table 7. Employment benchmarks for industries not published monthly, March 1972-80—Continued

(In thousands)

Industry	1972 SIC CODE	March 1972 ¹	March 1973	March 1974 ¹	March 1975	March 1976	March 1977	March 1978	March 1979	March 1980
Blankbooks and looseleaf binders....	2782	30.9	32.9	34.1	31.8	32.0	33.5	35.9	38.3	38.5
Bookbinding and related work.....	2789	25.9	26.0	24.9	23.1	23.0	22.8	24.0	23.9	24.0
Typesetting.....	2791	24.2	24.5	23.9	23.4	22.9	23.8	24.8	26.7	27.5
Other publishing and printing.....	2793-5	17.5	17.3	16.7	15.6	15.1	15.0	15.4	16.4	16.9
Alkalies and chlorine.....	2812	24.0	23.6	22.8	23.2	21.8	21.9	23.6	21.3	23.0
Industrial gases.....	2813	15.4	16.1	16.9	17.1	17.6	21.3	21.0	21.7	21.0
Inorganic pigments.....	2816	11.4	12.2	13.6	12.7	12.6	12.8	12.6	12.5	11.6
Synthetic rubber.....	2822	16.4	17.1	16.7	14.5	13.4	13.9	14.1	14.2	13.9
Cellulosic man-made fibers.....	2823	38.7	39.8	38.3	25.2	24.9	21.0	20.9	13.1	14.6
Biological products.....	2831	17.9	18.3	19.3	18.7	19.6	19.9	20.7	21.8	22.9
Medicinals and botanicals.....	2833	14.8	14.8	14.7	15.0	14.2	15.9	16.0	16.7	18.1
Nitrogenous fertilizers.....	2873	11.0	11.3	11.2	12.0	14.0	16.7	14.5	14.0	14.8
Phosphatic fertilizers.....	2874	15.6	15.8	15.7	16.8	16.2	15.6	15.0	15.0	17.7
Fertilizers, mixing only.....	2875	13.8	15.4	16.0	16.0	15.3	15.7	14.4	15.4	15.0
Agricultural chemicals, nec.....	2879	18.3	19.0	21.1	23.3	23.9	23.0	24.5	26.0	26.2
Adhesives and sealants.....	2891	13.8	14.2	15.5	14.8	15.5	16.6	18.0	19.8	20.5
Explosives.....	2892	23.2	23.2	22.4	19.7	13.6	13.7	13.1	13.4	13.1
Printing ink.....	2893	11.3	11.1	12.4	12.3	10.6	11.3	12.1	12.4	12.8
Other chemical preparations.....	2895,9	40.9	39.9	40.6	37.4	40.5	42.8	45.3	46.9	47.0
Paving mixtures and blocks.....	2951	10.9	10.6	10.9	10.0	10.1	10.1	9.7	10.3	10.0
Asphalt felts and coatings.....	2952	18.5	20.0	19.4	17.0	18.6	18.7	19.6	20.8	20.4
Misc. petroleum and coal products....	299	11.3	10.9	11.5	11.2	11.1	11.0	10.9	12.0	12.3
Fabricated rubber products.....	303,4,6	133.1	145.3	144.2	120.6	126.5	133.7	138.8	145.7	135.4
Boot and shoe cut stock and findings..	313	13.2	12.4	11.4	8.6	10.3	10.1	11.4	11.6	11.0
House slippers.....	3142	10.6	11.5	11.4	9.0	8.2	8.3	8.3	8.5	8.7
Footwear, except rubber, nec.....	3149	35.1	25.5	25.5	22.7	23.1	21.6	23.3	24.0	23.5
Women's handbags and purses.....	3171	20.3	21.5	20.9	17.0	20.4	19.8	18.6	18.6	17.2
Personal leather goods, nec.....	3172	12.4	12.6	12.8	10.8	14.0	13.9	14.3	13.8	14.1
Other leather products, nec.....	315,9	13.5	13.6	14.5	12.2	13.6	14.3	14.5	14.7	13.7
Service-producing.....	-	49,233	51,248	52,792	53,721	55,364	57,005	59,901	62,661	64,454
Transportation and public utilities....	40-49	4,485	4,579	4,684	4,513	4,596	4,603	4,804	5,045	5,127
Transportation	40-42, 44-47	2,631.3	2,700.8	2,754.2	2,610.2	2,617.3	2,696.8	2,828.6	2,967.4	2,974.5
Other railroads and switching and terminal companies.....	4012	56.0	54.8	46.2	53.2	43.0	43.8	48.0	50.5	54.1
Other passenger transit services....	414,7	9.3	10.1	10.7	11.1	11.1	12.3	13.1	13.6	15.3
Trucking, local and long distance....	421	998.8	1057.0	1092.7	982.1	1023.0	1,071.3	1,164.8	1,224.8	1,186.7
Trucking terminal facilities.....	423	4.5	4.6	5.0	4.5	4.6	5.0	5.2	7.1	7.6
Deep sea transportation.....	441,2	54.7	50.1	47.1	45.1	42.7	42.9	42.7	42.0	42.6
Water transportation services.....	446	116.0	112.4	112.4	108.3	107.4	103.8	117.3	115.1	112.0
Other water transportation.....	443-5	35.3	33.5	37.3	39.3	36.8	39.7	41.8	44.4	47.8
Air transportation services.....	458	32.0	34.5	34.4	36.7	36.8	39.2	41.0	45.9	49.4
Freight forwarding.....	471	34.0	34.1	36.4	36.8	36.6	40.2	43.3	45.2	49.2
Arrangement of transportation.....	472	64.2	66.1	70.8	74.1	80.5	90.6	102.6	113.8	125.7
Other transportation services.....	474,8	20.3	20.8	22.4	21.2	19.6	20.2	21.3	21.7	24.3
Telegraph communication.....	482	24.2	22.6	20.3	19.0	17.8	18.0	18.2	18.4	19.2
Communication services, nec.....	489	28.4	31.3	31.7	34.3	37.5	40.4	44.1	50.8	62.2
Water supply.....	494	17.1	18.1	18.3	18.4	18.5	19.0	19.4	20.0	20.4
Steam supply and irrigation systems..	496,7	2.3	2.4	2.6	2.6	3.0	3.3	3.2	2.5	2.5
Wholesale and retail trade.....	50-59	15,495	16,176	16,537	16,571	17,245	17,891	18,878	19,809	20,068
Wholesale trade.....	50-51	4,048	4,205	4,374	4,354	4,480	4,607	4,852	5,135	5,268
Farm-product raw materials.....	515	134.3	135.4	134.5	131.3	136.2	142.2	143.9	145.6	147.0
Retail trade.....	52-59	11,447	11,971	12,163	12,217	12,765	13,284	14,026	14,674	14,800
Paint, glass, and wallpaper stores..	523	48.1	49.4	50.2	51.3	53.2	55.7	58.0	61.1	61.7
Retail nurseries and garden stores..	526	33.7	36.2	44.6	41.5	45.7	47.0	48.5	52.5	53.7
Mobile home dealers.....	527	35.2	39.0	36.0	28.6	27.0	27.0	29.6	29.6	28.3
Other food stores.....	543-5,9	74.5	80.1	85.8	89.6	93.0	95.2	103.8	107.4	110.0
New and used car dealers.....	551	762.6	797.1	748.0	715.3	759.2	790.8	828.9	855.3	778.8
Used car dealers.....	552	38.6	43.8	42.6	40.6	45.0	45.9	47.1	48.5	43.0
Other automotive dealers.....	555-7,9	67.7	72.0	72.4	67.1	73.0	76.4	81.9	87.5	82.4
Women's accessory and specialty stores.....	563	26.5	28.0	25.6	25.4	25.0	23.6	22.8	24.0	23.2

See footnotes at end of table.

Table 7. Employment benchmarks for Industries not published monthly, March 1972-80—Continued

(In thousands)

Industry	1972 SIC CODE	March 1972 ¹	March 1973	March 1974 ¹	March 1975	March 1976	March 1977	March 1978	March 1979	March 1980
Children's and infants' wear stores..	564	21.1	20.8	20.6	21.4	22.3	23.7	24.7	26.2	28.2
Furriers and other misc. apparel and accessories.....	568,9	29.7	29.4	30.7	30.7	32.9	34.4	37.0	43.2	44.8
Used merchandise stores.....	593	35.2	36.8	38.7	42.2	45.8	48.4	51.1	56.2	58.7
Finance, insurance, and real estate...	60-67	3,841	3,989	4,107	4,117	4,204	4,377	4,623	4,876	5,090
Mutual savings banks.....	603	40.4	43.7	46.9	49.1	53.0	58.1	62.8	66.2	70.1
Other related banking functions.....	601,4,5	45.5	48.2	52.4	56.0	56.2	57.2	59.2	61.1	64.1
Business credit institutions.....	615	22.0	23.3	24.2	24.2	23.6	22.7	23.4	29.8	31.7
Mortgage bankers and brokers.....	616	40.3	43.9	44.3	41.3	43.7	48.1	56.0	60.6	62.9
Credit agencies other than banks, nec	611,3	13.0	13.8	14.3	15.2	15.8	15.6	16.4	17.3	18.4
Other security, commodity brokers and services.....	622,3,8	28.0	28.4	27.8	28.1	28.9	32.4	35.5	38.5	41.5
Other insurance carriers.....	635-7,9	50.1	54.0	54.4	55.4	59.9	61.8	70.8	73.0	75.5
Title abstract offices.....	654	15.5	17.4	16.1	14.9	17.0	20.3	22.6	22.8	22.2
Holding offices.....	671	30.9	33.3	34.4	37.5	37.7	41.9	44.5	51.4	50.9
Holding and other investment offices, nec.....	672,3,9	40.4	42.5	45.0	47.4	51.3	50.7	55.8	57.6	62.8
Services.....	07,70-86, 89,99	11,991	12,650	13,191	13,632	14,284	14,935	15,870	16,829	17,636
Veterinary, animal, landscape, and horticultural services	074,5,8	134.3	145.2	140.8	141.9	157.5	166.4	180.7	200.6	211.4
Camps and trailering parks.....	703	15.0	16.4	13.8	15.2	14.4	14.7	13.6	14.3	14.4
Other lodging places.....	702,4	19.1	19.2	23.4	21.3	20.6	18.5	17.8	16.9	16.1
Photographic studios, portrait.....	722	30.4	33.0	32.8	33.1	35.0	36.0	40.5	42.8	42.6
Barber shops.....	724	31.8	30.4	28.0	26.5	26.4	26.8	27.3	27.8	27.6
Misc. personal services.....	725,9	73.7	89.6	104.4	108.5	109.7	122.3	135.4	141.5	139.8
Other business services.....	735,9	814.4	885.6	918.5	964.4	995.6	1,035.7	1,132.0	1,239.4	1,346.9
Automotive rentals, without drivers..	751	65.5	78.0	81.7	79.7	83.1	88.3	102.5	116.3	122.2
Automobile parking.....	752	37.3	38.7	36.8	35.7	36.2	36.7	37.4	37.5	37.2
Automotive services, except repairs..	754	64.2	64.3	60.3	58.2	58.7	63.1	69.3	71.1	68.7
Electrical repair shops.....	762	60.5	62.4	66.1	65.1	68.3	69.9	76.3	84.2	86.7
Reupholstery and furniture repair....	764	22.1	22.9	21.5	20.2	21.4	22.0	22.3	23.1	22.5
Misc. repair services, nec.....	763,9	112.8	117.2	127.1	130.9	137.0	140.6	156.8	173.0	181.0
Motion picture distribution and services.....	782	12.0	11.3	11.0	10.4	9.8	10.4	11.1	10.7	10.6
Producers, orchestras, entertainers	792	62.3	57.8	63.1	62.6	65.8	72.1	76.2	83.2	86.2
Bowling and billiard establishments..	793	98.0	98.0	102.0	103.0	106.4	112.2	115.1	116.4	117.2
Commercial sports.....	794	49.0	55.4	48.4	55.7	60.6	60.5	60.7	60.0	64.2
Amusement and recreation services, nec.....	791,9	252.5	278.0	297.8	308.9	328.0	355.7	383.0	405.1	432.6
Offices of osteopathic physicians....	803	13.1	14.4	15.4	16.3	17.5	19.4	21.0	22.0	23.9
Offices of other health practitioners	804	42.1	48.9	56.3	59.6	62.7	69.0	77.4	85.3	95.2
Medical and dental laboratories.....	807	67.6	73.6	78.3	80.5	87.0	92.2	96.3	101.6	103.4
Health services, nec.....	808,9	73.1	83.8	91.9	108.1	122.3	135.2	157.7	172.2	206.0
Correspondence and vocational schools	824	43.5	49.2	48.2	44.6	45.9	44.4	45.9	47.0	46.7
Educational services, nec.....	823,9	40.5	44.0	48.3	52.3	56.9	54.9	63.2	69.9	70.9
Individual and family services.....	832	73.1	75.9	84.9	96.4	102.8	112.6	127.1	155.9	172.2
Job training and related services....	833	71.5	75.1	91.8	84.7	101.8	120.1	149.8	173.6	192.4
Child day care services.....	835	150.0	159.0	168.7	196.8	216.8	238.9	275.8	316.9	303.2
Residential care.....	836	107.4	113.4	126.1	141.2	152.9	175.8	190.0	196.5	209.8
Social services, nec.....	839	117.2	117.9	135.0	142.9	162.9	175.4	204.2	227.5	241.5
Museums, botanical, and zoological gardens.....	841,2	20.1	22.2	23.9	24.7	25.7	25.7	28.8	30.4	30.9
Business associations.....	861	62.4	65.8	69.1	74.3	74.7	75.6	79.7	81.9	84.0
Professional organizations.....	862	24.2	26.0	27.4	27.6	31.8	30.7	33.2	33.9	35.5
Labor organizations.....	863	118.6	130.0	137.2	138.6	138.9	142.6	141.6	146.7	150.6
Civic and social associations.....	864	270.9	276.3	284.3	293.2	294.6	296.5	304.5	305.0	309.7
Religious organizations.....	866	883.6	866.4	866.5	861.0	881.3	882.7	875.0	890.4	892.3
Political and membership org., nec...	865,9	44.4	48.6	52.0	55.9	64.9	60.4	64.9	65.0	68.2
Miscellaneous services, nec.....	892,9	92.6	97.0	100.9	106.7	107.9	109.3	116.2	125.7	133.2
Nonclassifiable establishments.....	99	35.8	45.8	62.9	80.1	123.0	110.5	111.3	94.7	107.7

See footnotes at end of table.

Table 7. Employment benchmarks for industries not published monthly, March 1972-80—Continued

(In thousands)

Industry	1972 SIC CODE	March 1972 ¹	March 1973	March 1974 ¹	March 1975	March 1976	March 1977	March 1978	March 1979	March 1980
Government.....	-	13,421	13,854	14,273	14,888	15,125	15,199	15,726	16,102	16,533
Federal.....	-	2,683	2,656	2,691	2,724	2,724	2,714	2,725	2,740	2,869
Small arms ammunition and ordnance	N.A.	N.A.	N.A.	N.A.	26.5	27.5	28.6	19.4	19.3	19.0
Other manufacturing.....	N.A.	N.A.	N.A.	N.A.	43.3	40.2	41.4	32.2	33.0	31.3
Trade division.....	N.A.	N.A.	N.A.	N.A.	86.5	84.0	87.1	74.4	77.4	80.3
Finance division.....	N.A.	N.A.	N.A.	N.A.	19.5	16.5	17.2	19.1	22.9	25.4
Other services.....	N.A.	N.A.	N.A.	N.A.	141.2	138.7	143.9	154.7	126.9	154.2
State and local government.....		10,737	11,198	11,582	12,163	12,401	12,485	13,001	13,362	13,664
State government.....		2,900	2,978	3,085	3,256	3,311	3,427	3,502	3,607	3,688
Other State government.....		1,632.8	1,689.1	1,743.2	1,839.4	1,866.6	1,947.3	2,034.5	2,134.7	2,193.8
Construction division.....		279.6	280.9	279.8	272.0	257.0	268.1	271.5	280.6	293.6
Transportation and public										
utilities.....		25.3	25.9	26.3	26.7	29.4	30.7	31.8	34.1	34.3
Social services.....		113.6	124.8	136.9	157.2	157.9	164.7	161.6	179.7	182.2
Services, except hospitals, educa-										
tion, and social services.....		68.1	71.7	78.3	85.1	89.3	93.2	103.8	106.9	124.3
All other State government.....		694.0	715.8	743.1	798.0	820.0	855.4	914.7	990.2	1,028.2
Local government.....		7,836	8,219	8,496	8,904	9,089	9,499	9,499	9,755	9,976
Other local government.....		3,321.3	3,488.4	3,625.3	3,797.9	3,901.3	3,870.7	4,113.1	4,430.5	4,481.8
Social services.....		171.1	176.3	181.5	187.5	188.1	186.6	228.7	227.2	200.7
Services, except hospitals,										
education, and social services	-	98.8	101.8	103.5	111.0	109.7	108.8	108.9	146.9	171.1

¹ Data for 1972 and 1974 are estimates, not universe counts.
 Note: Overall total and industry division totals are published monthly.
 nec = not elsewhere classified

ESTABLISHMENT DATA

Seasonal Factors

The following tables present seasonal adjustment factors for all series in the establishment section of this periodical. These factors were derived using data through March 1981. The factors should be used with current estimates (adjusted to the March 1980 benchmarks) beginning April 1981.

The seasonal movements are measured in order to adjust the data statistically for such recurring events as warm and cold weather, crop-growing cycles, holidays, vacations, regular industry model changeover periods, and the like. These movements are generally the largest single component of month-to-month change in employment, hours, earnings, and labor turnover. The seasonal factors which follow enable the analyst to remove these influences from the data in order to determine more basic trends.

Table 8. Seasonal adjustment factors for employees on nonagricultural payrolls by industry division and major manufacturing group

Industry	1981									1982		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total¹												
Mining	99.1	100.0	102.0	102.0	101.6	100.6	100.2	99.8	99.2	98.5	98.3	98.7
Construction	98.1	100.5	104.5	106.6	107.1	105.7	105.5	103.3	99.1	91.1	88.9	91.7
Manufacturing¹												
Durable goods¹												
Lumber and wood products	97.9	99.1	101.7	101.0	102.2	102.0	101.9	100.8	100.0	97.9	97.7	98.0
Furniture and fixtures	100.0	98.9	98.9	96.8	98.6	99.9	100.7	101.3	101.5	101.2	101.3	101.1
Stone, clay, and glass products	99.5	100.3	102.0	101.3	101.4	101.5	101.3	101.2	99.6	97.1	96.6	98.2
Primary metal industries	100.4	100.5	101.0	99.6	99.3	100.0	99.6	99.8	100.0	100.0	99.8	100.1
Fabricated metal products	99.9	99.5	100.2	98.2	98.8	100.1	100.6	101.1	101.1	100.1	100.1	100.3
Machinery, except electrical	100.6	99.9	100.4	99.4	98.8	99.6	99.2	99.6	100.3	100.4	100.7	101.0
Electric and electronic equipment	99.8	99.6	100.2	98.9	99.1	100.1	100.4	100.6	100.7	100.3	100.2	100.1
Transportation equipment	99.8	100.3	99.8	99.4	98.9	99.7	101.2	101.1	101.8	100.8	99.6	100.7
Instruments and related products	100.1	99.9	100.9	99.9	99.9	99.5	99.6	100.0	100.2	100.0	99.9	100.1
Miscellaneous manufacturing ind.	99.4	99.9	101.1	96.7	101.1	102.4	103.1	102.6	99.2	97.0	98.3	99.5
Nondurable goods¹												
Food and kindred products ²	98.1	96.8	100.0	101.4	106.3	106.4	103.2	100.8	99.3	97.0	96.2	96.6
Tobacco manufactures	92.2	91.6	92.9	92.9	104.1	109.4	109.7	106.6	105.2	101.6	98.7	95.1
Textile mill products	100.0	100.1	100.6	97.7	99.8	100.1	100.1	100.5	100.5	100.1	100.3	100.3
Apparel and other textile products	100.4	100.6	101.6	96.3	100.4	101.1	101.2	100.7	99.3	98.3	99.7	100.6
Paper and allied products	100.0	99.8	100.9	100.0	100.3	99.9	100.0	100.0	100.0	99.6	99.7	100.0
Printing and publishing	100.0	99.9	100.2	99.7	99.6	99.5	99.8	100.2	100.8	100.0	100.1	100.2
Chemicals and allied products	99.9	100.1	100.9	100.6	100.5	99.9	99.7	99.7	99.7	99.5	99.5	99.9
Petroleum and coal products	99.2	99.8	101.6	101.8	101.7	100.9	100.6	100.3	99.2	98.1	98.2	98.7
Rubber and misc. plastic products	100.0	99.5	100.2	98.3	99.1	100.1	100.5	100.7	100.6	100.3	100.5	100.4
Leather and leather products ³	100.3	101.4	102.7	95.5	101.1	100.4	100.6	100.8	99.8	98.4	99.3	99.8
Transportation and public utilities	99.2	100.0	100.9	100.2	100.1	100.7	100.7	100.7	100.6	98.8	98.9	99.2
Wholesale and retail trade¹												
Wholesale trade	99.7	99.8	100.6	100.3	100.2	100.0	100.4	100.3	100.3	99.5	99.3	99.6
Retail trade ⁴	99.3	99.8	100.3	99.5	99.6	100.3	100.4	101.9	104.3	99.1	97.7	98.2
Finance, insurance, and real estate	99.6	100.0	101.0	101.2	101.0	99.9	99.8	99.8	99.7	99.4	99.3	99.4
Services⁵	100.2	100.5	101.1	101.1	100.9	100.2	100.2	99.8	99.5	98.2	98.8	99.5
Government¹												
Federal ⁵	100.2	100.1	101.6	102.0	102.0	98.8	99.2	99.3	98.9	99.1	99.2	99.6
State and local	100.1	102.1	100.9	95.0	93.9	97.6	100.8	101.9	101.6	100.1	101.8	102.2

¹ Seasonally adjusted data derived by summation of components.

² Factors shown for July, August, and September are based on data excluding motor vehicles (SIC 371). Comparable factor for June is 100.2.

³ No ARIMA models identified to extend series for one year. Factors shown

relate to data from latest year (April 1980-March 1981).

⁴ Factor for April 1982 will be 99.1.

⁵ Based on data which exclude temporary Christmas employees of the Postal Service during December.

Table 9. Seasonal adjustment factors for women employees on nonagricultural payrolls by industry division and manufacturing group

Industry	1981									1982		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total¹												
Mining	99.5	100.0	102.6	102.4	102.0	100.1	98.9	99.3	98.8	98.1	98.9	99.5
Construction	98.6	99.5	101.5	101.8	102.3	101.3	101.0	100.4	99.5	98.2	97.6	98.2
Manufacturing¹												
Durable goods¹												
Lumber and wood products	99.1	99.5	100.6	98.9	100.6	101.6	101.7	101.3	100.2	98.8	98.6	99.2
Furniture and fixtures	100.2	99.2	98.2	95.3	97.6	99.9	101.0	102.0	102.4	101.5	101.5	101.3
Stone, clay, and glass products	99.7	100.1	101.0	99.5	99.7	100.5	100.6	100.9	100.3	99.2	98.9	99.7
Primary metal industries	100.1	99.4	100.1	99.9	98.2	99.1	99.7	100.5	100.8	100.6	100.9	101.0
Fabricated metal products	100.2	99.7	100.2	97.6	98.0	99.8	100.9	101.4	101.2	100.4	100.3	100.5
Machinery, except electrical ²	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Electric and electronic equipment	99.8	99.7	100.5	98.2	98.7	100.0	100.6	100.9	101.1	100.2	100.1	100.3
Transportation equipment	99.7	100.1	100.4	98.8	96.9	100.3	101.2	101.4	101.4	100.2	99.5	100.2
Instruments and related products	100.4	100.1	101.4	99.3	99.5	99.4	99.8	100.1	100.2	99.8	100.0	100.1
Miscellaneous manufacturing ind.	99.2	99.7	101.4	95.9	101.3	103.8	105.0	103.9	98.7	95.2	97.1	98.9
Nondurable goods¹												
Food and kindred products ³	93.4	94.3	98.9	101.2	110.8	112.4	106.1	102.0	98.6	94.5	93.6	94.2
Tobacco manufactures	88.5	88.3	88.6	88.2	105.1	113.5	114.8	111.1	106.4	101.9	99.7	93.8
Textile mill products	100.1	100.2	100.7	97.6	99.9	100.2	100.3	100.8	100.4	99.7	100.1	100.2
Apparel and other textile products	100.7	100.9	101.6	95.8	100.2	100.9	101.1	100.6	99.3	98.3	99.9	100.8
Paper and allied products	99.8	99.9	101.8	99.7	100.6	100.2	100.8	100.4	99.6	98.9	98.8	99.5
Printing and publishing	100.1	99.8	100.0	99.6	99.6	99.5	99.9	100.5	100.9	100.0	100.0	100.2
Chemicals and allied products	99.5	99.8	101.0	100.7	100.7	100.4	100.2	100.1	99.7	99.1	99.4	99.6
Petroleum and coal products ²	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Rubber and misc. plastic products	99.7	99.3	100.4	96.8	98.4	100.6	101.3	101.6	100.8	100.3	100.4	100.5
Leather and leather products	100.5	101.3	102.7	94.3	101.3	101.0	100.9	101.2	99.5	98.1	99.3	99.9
Transportation and public utilities	99.6	100.1	100.6	99.0	98.9	100.3	100.6	100.8	100.6	99.8	99.8	100.0
Wholesale and retail trade¹												
Wholesale trade	99.2	99.6	100.2	99.5	99.5	100.1	101.1	101.1	101.0	99.5	99.4	99.7
Retail trade⁴	99.0	99.5	99.8	98.8	99.1	100.3	100.5	102.9	106.4	99.4	97.2	97.6
Finance, insurance, and real estate	99.8	99.7	100.5	100.6	100.6	99.6	99.7	99.9	100.0	99.8	99.9	99.9
Services	100.3	100.5	100.7	100.3	100.1	100.1	100.3	100.1	99.8	98.8	99.3	99.9
Government¹												
Federal	100.1	100.4	102.2	102.4	101.4	98.7	99.1	98.9	98.8	99.0	99.3	99.7
State and local	103.8	103.5	100.6	89.9	88.5	96.9	101.8	103.4	103.0	101.5	103.3	103.8

¹ Seasonally adjusted data derived by summation of components.

² The seasonal 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.

³ No ARIMA models identified to extend series for one year. Factors shown relate to data from latest year (April 1980-March 1981).

⁴ Factor for April 1982 will be 98.6.

Table 10. Seasonal adjustment factors for production or nonsupervisory workers' on private nonagricultural payrolls by industry division and major manufacturing group

Industry	1981									1982		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total private¹												
Mining	99.0	100.1	102.1	102.1	101.4	100.8	100.4	100.0	99.2	98.4	98.1	98.5
Construction	99.3	100.8	105.5	107.9	108.7	107.1	106.9	104.2	99.0	88.6	86.3	89.9
Manufacturing¹												
Durable goods²												
Lumber and wood products	97.6	99.0	101.9	101.2	102.5	102.2	102.0	100.8	99.9	97.7	97.5	97.8
Furniture and fixtures	100.1	98.6	98.7	96.0	98.2	100.0	101.0	101.6	101.8	101.5	101.5	101.3
Stone, clay, and glass products	99.4	100.4	102.5	101.4	101.5	101.8	101.7	101.5	99.6	96.6	95.9	97.9
Primary metal industries	100.6	100.6	101.1	99.2	98.9	100.0	99.6	99.8	100.1	100.1	99.8	100.2
Fabricated metal products	100.0	99.7	100.3	97.5	98.3	100.2	100.7	101.3	101.3	100.2	100.2	100.4
Machinery, except electrical ³	101.1	100.0	100.3	98.9	97.8	99.2	99.0	99.7	100.6	100.8	101.2	101.4
Electric and electronic equipment	99.9	99.6	100.2	98.1	98.5	100.0	100.4	101.1	101.2	100.5	100.4	100.3
Transportation equipment	99.9	100.6	99.7	98.7	98.0	99.2	101.7	101.8	102.8	101.4	99.8	101.1
Instruments and related products	100.2	100.0	101.2	99.2	99.6	99.4	99.4	100.1	100.4	100.1	100.2	100.3
Miscellaneous manufacturing ind.	99.2	100.0	101.5	96.3	101.6	103.2	103.9	103.0	98.7	96.2	97.5	98.8
Nondurable goods²												
Food and kindred products ⁴	94.8	95.6	99.6	101.4	108.5	109.0	104.4	101.2	99.1	96.1	95.0	95.4
Tobacco manufactures	90.4	89.7	91.4	91.3	105.2	111.1	111.7	108.5	106.2	101.8	98.4	98.2
Textile mill products	100.0	100.1	100.7	97.5	99.7	100.0	100.0	100.6	100.6	100.1	100.3	100.3
Apparel and other textile products	100.4	100.8	101.7	95.8	100.5	101.2	101.3	100.8	99.1	98.0	99.7	100.5
Paper and allied products	99.9	99.8	101.1	100.0	100.3	99.9	100.0	100.0	100.1	99.5	95.6	99.9
Printing and publishing	100.3	100.0	99.9	99.3	99.3	99.5	99.7	100.3	101.1	99.9	100.3	100.4
Chemicals and allied products	100.2	100.4	101.1	100.3	100.1	99.7	99.5	99.5	99.7	99.6	99.7	100.3
Petroleum and coal products	98.9	99.9	102.2	102.4	102.5	101.5	101.1	100.5	98.8	97.5	97.0	97.6
Rubber and misc. plastic products	99.9	99.3	100.2	57.8	98.6	100.1	100.7	101.0	100.8	100.4	100.7	100.6
Leather and leather products	100.2	101.5	102.7	55.1	101.4	100.7	100.6	100.9	99.4	98.3	99.5	100.0
Transportation and public utilities	99.1	100.0	101.1	100.2	100.1	100.7	100.9	100.7	100.7	98.6	98.7	99.1
Wholesale and retail trade²												
Wholesale trade	99.7	99.8	100.8	100.3	100.3	100.0	100.4	100.3	100.2	99.4	99.2	99.6
Retail trade⁵	99.2	99.7	100.2	99.3	99.6	100.2	100.4	102.1	104.8	99.2	97.6	98.0
Finance, insurance, and real estate	99.5	100.0	101.2	101.5	101.2	99.9	99.7	99.7	99.6	99.1	99.1	99.3
Services⁴	100.2	100.6	101.1	101.1	100.9	100.2	100.2	99.7	99.5	98.0	98.8	99.6

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

² Seasonally adjusted data derived by summation of components.

³ Factors shown for July, August, and September are based on data excluding motor vehicles (SIC 371). Comparable factor for June is 100.2.

⁴ No ARIMA models identified to extend series for one year. Factors shown relate to data from latest year (April 1980-March 1981).

⁵ Factor for April 1982 will be 99.0.

Table 11. Seasonal adjustment factors for average weekly hours of production or nonsupervisory workers' on private nonagricultural payrolls by industry division and major manufacturing group

Industry	1981									1982		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total private¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Mining²	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Construction³	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Manufacturing⁴												
Durable goods⁵												
Lumber and wood products	96.8	99.5	101.2	99.7	101.0	101.5	101.5	100.2	101.2	97.5	98.5	99.6
Furniture and fixtures	96.4	98.7	100.1	98.2	99.9	100.5	101.2	101.1	103.2	99.0	99.4	100.5
Stone, clay, and glass products	99.2	100.3	101.1	99.7	100.4	100.8	101.2	101.2	101.6	97.6	97.5	99.7
Primary metal industries	100.1	99.7	100.2	99.4	99.1	100.5	99.4	100.0	101.1	100.1	100.1	100.3
Fabricated metal products	98.3	99.5	100.2	98.4	99.4	100.3	100.3	101.0	103.0	99.8	99.4	100.4
Machinery, except electrical ⁶	96.7	99.4	99.9	98.2	98.7	100.2	99.8	100.8	103.1	100.3	100.1	100.7
Electric and electronic equipment	99.0	99.3	99.9	98.1	99.0	100.2	100.1	101.3	102.7	100.1	99.9	100.5
Transportation equipment	97.7	99.6	99.8	98.8	98.1	100.0	100.9	101.3	105.2	99.3	99.1	100.3
Instruments and related products	99.4	99.8	100.0	98.4	99.1	99.8	100.0	101.2	102.0	100.0	100.1	100.3
Miscellaneous manufacturing ind.	99.2	99.3	99.8	98.3	99.8	100.8	100.7	101.3	101.7	99.4	99.4	100.4
Nondurable goods²												
Food and kindred products	96.1	99.5	99.9	100.5	101.4	101.6	100.3	100.8	101.4	99.3	98.6	98.6
Tobacco manufactures ³	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Textile mill products	96.9	99.6	100.4	98.3	99.2	100.1	100.2	101.1	102.0	99.8	99.9	100.5
Apparel and other textile products	99.1	99.9	100.9	100.3	100.6	99.9	100.3	100.6	101.1	97.7	99.4	100.4
Paper and allied products	99.2	99.2	100.0	99.2	99.6	100.2	99.9	100.9	102.2	100.2	99.5	100.0
Printing and publishing ⁴	99.1	99.2	99.5	99.6	100.5	100.9	100.3	101.0	101.9	99.1	99.0	99.9
Chemicals and allied products	100.2	99.7	99.8	99.2	99.3	99.8	99.9	101.0	101.2	99.9	99.8	100.2
Petroleum and coal products	99.5	99.5	100.3	101.5	100.4	102.6	102.3	101.6	100.1	97.2	97.0	97.8
Rubber and misc. plastic products ⁵	99.3	99.0	99.8	98.7	99.4	100.4	100.5	100.7	101.9	100.2	99.7	100.5
Leather and leather products	99.3	100.7	102.0	100.4	100.1	99.6	99.7	99.8	100.9	99.1	99.3	99.1
Transportation and public utilities³	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Wholesale and retail trade²												
Wholesale trade	99.7	100.0	100.2	100.2	100.2	100.1	100.4	100.1	100.9	99.4	99.3	99.7
Retail trade	96.9	99.2	101.0	102.8	102.6	100.2	99.6	99.5	101.5	97.9	98.2	98.8
Finance, insurance, and real estate¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Services	99.5	99.3	100.6	101.5	101.4	99.9	99.9	99.7	99.8	99.4	99.5	99.5

¹ See footnote 1, table 10.
² See footnote 2, table 10.

³ See footnote 2, table 9.
⁴ See footnote 4, table 10.

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

Industry	1981									1982		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Manufacturing¹												
Durable goods	99.7	94.8	99.2	94.9	96.4	106.0	104.1	104.6	110.5	97.3	98.8	103.0
Nondurable goods	89.2	94.1	97.3	96.1	104.0	110.8	104.5	105.0	106.4	98.4	96.7	97.8

¹ See footnote 2, table 10.

Table 13. Seasonal adjustment factors for average hourly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division

Industry	1981									1982		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total private²												
Mining ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Construction	99.1	99.6	99.2	99.7	100.2	101.3	100.8	100.3	100.3	100.3	99.7	99.6
Manufacturing	99.7	99.6	99.7	100.0	99.2	100.1	100.0	100.2	100.9	100.5	100.1	100.1
Transportation and public utilities	99.7	99.2	98.9	99.8	100.1	100.9	100.7	100.8	100.5	100.0	100.1	99.4
Wholesale and retail trade	100.5	100.0	99.7	99.6	99.1	99.9	99.7	99.6	98.8	101.4	101.1	100.6
Finance, insurance, and real estate	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Services	100.4	100.2	99.2	98.7	98.4	99.8	99.9	100.4	100.2	101.0	101.2	100.8

¹ See footnote 1, table 10.

² See footnote 2, table 10.

³ See footnote 2, table 9.

Table 14. Seasonal adjustment factors¹ for labor turnover rates in manufacturing

Item	1981									1982		
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total accession²												
New hires	96.1	113.0	128.2	104.8	128.3	124.6	105.1	79.8	56.0	85.3	81.9	97.1
Recalls	98.6	102.7	96.9	115.0	123.7	101.9	84.5	73.0	71.4	127.6	101.2	103.3
Other accessions and recalls	100.6	105.1	103.3	113.5	123.0	108.1	85.4	75.3	69.9	120.6	90.3	103.8
Total separations²												
Quits	96.4	100.7	101.6	101.9	157.9	142.4	105.3	79.0	61.7	83.6	77.0	91.6
Layoffs	89.1	78.5	82.4	135.2	95.8	86.2	100.0	110.7	127.5	116.5	89.1	87.8
Other separations	94.9	103.1	98.4	108.9	112.9	109.5	108.2	85.2	81.1	106.3	91.1	100.8

¹ Factors include the effects of trading day variations except for recalls.

² Seasonally adjusted data derived by summation of components.

Table 15. Seasonal adjustment factors for indexes of average hourly earnings adjusted for overtime (in manufacturing only) and interindustry employment shifts of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division

Industry	1981									1982		
	Apr. ²	May ²	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total private¹												
Mining⁴												
Construction	99.0	99.7	99.7	100.1	100.6	101.7	101.2	100.4	100.1	99.5	98.9	99.0
Manufacturing³												
Durable goods	99.9	99.8	100.0	99.9	99.5	100.0	100.1	100.1	100.5	100.2	100.0	100.0
Nondurable goods	100.0	99.8	99.7	100.0	99.8	100.0	99.8	100.0	100.1	100.5	100.3	100.0
Transportation and public utilities	99.8	99.3	98.8	99.5	99.9	101.0	100.8	100.5	100.5	100.3	100.2	99.4
Wholesale and retail trade²												
Wholesale trade	100.2	99.7	99.6	99.9	99.4	100.2	100.1	100.0	100.5	100.3	100.1	100.0
Retail trade	100.5	100.2	99.9	100.0	99.5	99.9	99.6	99.4	98.9	100.1	100.6	100.5
Finance, insurance, and real estate	100.4	99.9	99.8	100.1	99.5	99.7	99.9	99.6	99.8	100.5	100.9	99.9
Services	100.2	100.0	99.6	99.8	99.0	100.0	100.0	99.9	99.8	100.7	100.7	100.4

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

² The seasonal factors for the April 1982 and May 1982 preliminary estimates will

be those shown for April 1981 and May 1981.

³ Seasonally adjusted data derived from components.

⁴ The seasonal 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 16. Hourly Earnings Index for production or nonsupervisory workers on private nonfarm payrolls by industry division, annual averages for 1964-80

(1977=100)

Annual averages for—	Total private		Mining		Construction		Manufacturing	
	Current dollars	Constant dollars	Current dollars	Constant dollars	Current dollars	Constant dollars	Current dollars	Constant dollars
1964	44.8	87.4	40.8	79.7	44.5	86.9	45.2	88.2
1965	46.3	88.8	42.5	81.5	46.3	88.9	46.3	88.9
1966	48.3	90.2	44.5	83.0	48.6	90.7	47.9	89.4
1967	50.7	92.1	46.4	84.2	51.4	93.3	50.1	90.9
1968	53.9	93.8	48.8	85.1	55.1	96.0	53.2	92.6
1969	57.4	94.9	52.6	86.9	59.9	98.9	56.3	93.1
1970	61.3	95.6	55.6	86.8	65.4	102.0	59.8	93.4
1971	65.6	98.2	58.9	88.1	71.0	106.2	63.8	95.5
1972	69.8	101.2	63.7	92.3	75.1	108.8	67.8	98.3
1973	74.1	101.1	68.5	93.5	79.2	108.1	71.9	98.1
1974	80.0	98.3	75.9	93.3	84.2	103.4	78.1	96.0
1975	86.7	97.6	85.4	96.1	90.3	101.7	85.9	96.7
1976	92.9	99.0	92.5	98.6	95.1	101.3	92.5	98.5
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	108.1	100.5	112.2	104.3	106.7	99.2	108.2	100.6
1979	116.8	97.4	122.9	102.5	114.1	95.2	117.6	98.1
1980	127.3	93.5	134.1	98.5	121.8	89.5	129.4	95.1
	Transportation and public utilities		Wholesale and retail trade		Finance, insurance, and real estate		Services	
	Current dollars	Constant dollars	Current dollars	Constant dollars	Current dollars	Constant dollars	Current dollars	Constant dollars
1964	41.5	81.1	45.9	89.7	49.3	96.4	43.2	84.4
1965	43.6	83.6	47.7	91.6	51.2	98.2	44.6	85.5
1966	44.9	83.8	50.0	93.2	53.1	99.1	47.7	89.0
1967	46.7	84.8	52.7	95.7	55.3	100.4	50.3	91.3
1968	49.2	85.6	56.4	98.2	58.5	102.0	53.1	92.6
1969	52.2	86.3	60.1	99.3	62.1	102.6	57.1	94.4
1970	55.4	86.4	63.8	99.5	65.8	102.6	61.2	95.5
1971	60.6	90.7	67.5	101.1	69.8	104.5	65.9	98.6
1972	66.7	96.7	71.1	103.0	73.1	105.9	70.6	102.3
1973	71.9	98.1	75.2	102.6	77.1	105.2	74.9	102.2
1974	77.5	95.2	81.2	99.8	82.9	101.9	80.7	99.1
1975	84.3	94.9	87.3	98.3	89.2	100.4	86.5	97.4
1976	92.2	98.2	92.9	98.9	94.0	100.1	92.9	98.9
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	108.2	100.6	109.1	101.4	107.6	100.0	107.4	99.8
1979	116.8	97.4	118.0	98.4	116.0	96.7	115.1	96.0
1980	127.3	93.5	127.8	93.9	127.0	93.3	125.5	92.2

New Seasonal Adjustment Factors for Household Data Series

*Robert J. McIntire

The Bureau of Labor Statistics has a longstanding policy of prior publication of seasonal factors for major labor force series, especially for the 12 component series used in the computation of the seasonally adjusted overall unemployment rate and the underlying measures of employment, unemployment, and the labor force. The factors used for those 12 components during the first 6 months of 1981 were published in the January 1981 issue of *Employment and Earnings*. Table 1 displays the factors which will be used during the last 6 months of 1981. These factors, as well as the July-December factors for all other independently seasonally adjusted labor force series, have been extrapolated by applying the X-11 ARIMA program to data through June 1981 for each of the series. The same ARIMA models which were used at the end of 1980 were also used in the midyear application of the X-11 ARIMA program. The historical seasonally adjusted data, including the first 6 months of 1981, will not be revised until the beginning of 1982.

This issuance of the July-December factors marks the second year in which the Bureau has extrapolated and published the seasonal factors for labor force series in 6-month intervals. Through 1979, the factors were projected in 12-month intervals. However, research conducted at the Bureau of Labor Statistics, as well as work done by Estela Dagum under the auspices of the Na-

tional Commission on Employment and Unemployment Statistics, indicated that current seasonal adjustment would be improved during the last 6 months of each year if 6-month, instead of 12-month, intervals were used. Following initiation of the 6-month cycle in 1980, preliminary analyses of the adjustment process confirmed that the seasonally adjusted data for the last 6 months of 1980 were, on average, closer to end-of-year revisions than they would have been if 12-month factors had been used.

Data for any of the several hundred seasonally adjusted labor force series, plus the July-December 1981 factors for any of the 210 other independently adjusted series (in addition to the 12 components displayed here), may be obtained from the BLS upon request. Inquiries should be addressed to the Division of Employment and Unemployment Analysis, Office of Current Employment Analysis, Bureau of Labor Statistics, Washington, D.C. 20212. Other inquiries concerning seasonal adjustment methodology or the availability of machine-readable files of labor force data should be addressed to the Data Services Group, Office of Current Employment Analysis, Bureau of Labor Statistics, Washington, D.C. 20212.

* Robert J. McIntire is an economist in the Office of Current Employment Analysis, Bureau of Labor Statistics.

Table 1. Current seasonal adjustment factors for the 12 major labor force components, July-December 1981

Procedure and series	July	August	September	October	November	December
Multiplicative Adjustment (Divide factor into original value)						
Agricultural employment:						
Males, 20 years and over	1.073	1.063	1.057	1.045	1.001	0.954
Females, 20 years and over	1.268	1.173	1.128	1.134	0.928	0.831
Males, 16-19 years	1.800	1.448	1.097	1.010	0.803	0.695
Females, 16-19 years	1.982	1.779	1.010	0.883	0.656	0.592
Nonagricultural employment:						
Males, 20 years and over	1.007	1.007	1.003	1.006	1.003	1.001
Females, 20 years and over	0.974	0.976	1.002	1.012	1.015	1.016
Unemployment:						
Males, 20 years and over	0.996	0.963	0.883	0.883	0.907	0.943
Females, 20 years and over	1.024	1.075	1.061	1.022	0.977	0.929
Additive Adjustment (Subtract factor from original value)						
Nonagricultural employment:						
Males, 16-19 years	928	723	-257	-186	-214	-179
Females, 16-19 years	677	481	-203	-68	-19	70
Unemployment:						
Males, 16-19 years	185	-29	-68	-73	-25	-46
Females, 16-19 years	192	50	21	-46	-62	-130

HOUSEHOLD DATA HISTORICAL

A-1. Employment status of the noninstitutional population 16 years and over, 1947 to date

(Numbers in thousands)

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,521	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	105,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	109,823	65,730	60.4	62,138	60,253	6,500	53,749	1,883	3.0	43,093
1953 ¹	110,631	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,173	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,233	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	115,363	70,275	60.4	67,639	63,036	5,596	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,963
1960 ¹	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962.....	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	69,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	71,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,636	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972.....	145,775	88,991	61.0	86,542	81,702	3,472	78,233	4,840	5.6	56,785
1973 ¹	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,243	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	155,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978 ¹	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	59,521
1979.....	163,620	104,996	64.2	102,908	96,945	3,297	93,648	5,963	5.8	58,623
1980.....	166,246	106,821	64.3	104,719	97,270	3,310	93,960	7,448	7.1	59,425
Monthly data, seasonally adjusted²										
1980:										
June.....	165,135	106,683	64.2	104,591	96,780	3,232	93,548	7,811	7.5	59,422
July.....	165,391	107,119	64.4	105,020	96,999	3,267	93,732	8,021	7.6	59,273
August...	166,578	107,059	64.3	104,945	97,003	3,210	93,793	7,942	7.6	59,519
September..	166,789	107,101	64.2	104,980	97,180	3,399	93,781	7,800	7.4	59,687
October...	167,005	107,288	64.2	105,167	97,206	3,319	93,887	7,961	7.6	59,717
November..	157,231	107,404	64.2	105,285	97,339	3,340	93,999	7,946	7.5	59,797
December..	157,396	107,191	64.0	105,067	97,282	3,394	93,888	7,785	7.4	60,205
1981:										
January...	167,585	107,668	64.2	105,543	97,696	3,403	94,294	7,847	7.4	59,917
February...	167,747	107,802	64.3	105,681	97,927	3,281	94,646	7,754	7.3	59,946
March.....	157,902	108,305	64.5	106,177	98,412	3,276	95,136	7,764	7.3	59,598
April.....	168,071	108,851	64.8	106,722	98,976	3,463	95,513	7,746	7.3	59,219
May.....	168,272	109,533	65.1	107,406	99,235	3,353	95,882	8,171	7.6	58,739
June.....	168,480	108,307	64.3	106,176	98,392	3,265	95,127	7,784	7.3	60,173

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

² Because seasonality, by definition, does not exist in population figures, data for "total noninstitutional population" are not seasonally adjusted.

HOUSEHOLD DATA HISTORICAL

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1972 to date

(Numbers in thousands)

Sex, year, and month	Total nonin- stitutional popu- lation	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of popu- lation	Total	Employed			Unemployed		
					Total	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
MALES										
Annual averages										
1972 ¹	59,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 ¹	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978 ¹	77,159	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
1979.....	78,337	61,466	78.4	59,517	56,499	2,645	53,854	3,018	5.1	16,931
1980.....	79,642	62,088	78.0	60,145	55,988	2,664	53,324	4,157	6.9	17,554
Monthly data, seasonally adjusted²										
1980:										
June.....	79,575	62,028	77.9	60,093	55,597	2,635	52,992	4,496	7.5	17,548
July.....	79,710	62,208	78.0	60,271	55,678	2,635	53,043	4,593	7.6	17,502
August....	79,798	62,098	77.8	60,147	55,589	2,635	52,984	4,558	7.6	17,700
September..	79,897	62,278	77.9	60,320	55,754	2,726	53,028	4,566	7.6	17,619
October...	80,033	62,335	77.9	60,379	55,881	2,668	53,213	4,498	7.4	17,665
November..	80,091	62,342	77.8	60,388	55,897	2,691	53,206	4,491	7.4	17,749
December..	80,133	62,213	77.6	60,254	55,920	2,651	53,269	4,334	7.2	17,970
1981:										
January...	80,272	62,320	77.6	60,366	56,012	2,712	53,300	4,353	7.2	17,952
February...	80,346	62,288	77.5	60,338	56,045	2,586	53,459	4,293	7.1	18,058
March.....	80,415	62,582	77.8	60,628	56,383	2,539	53,784	4,245	7.0	17,833
April.....	80,492	62,848	78.1	60,893	56,688	2,785	53,903	4,205	6.9	17,644
May.....	80,588	63,198	78.4	61,245	56,718	2,692	54,026	4,527	7.4	17,390
June.....	80,687	62,289	77.2	60,335	56,026	2,645	53,380	4,309	7.1	18,399
FEMALES										
Annual averages										
1972 ¹	75,911	33,320	43.9	33,277	31,072	274	30,439	2,205	6.6	42,591
1973 ¹	77,242	34,561	44.7	34,510	32,446	276	31,827	2,064	6.0	42,681
1974.....	78,575	35,892	45.7	35,825	33,417	267	32,825	2,408	5.7	42,683
1975.....	79,954	37,087	46.4	36,998	33,553	245	32,973	3,445	9.3	42,868
1976.....	81,339	38,520	47.4	38,414	35,095	582	34,513	3,320	3.6	42,789
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	3.2	42,510
1978 ¹	83,890	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,887
1979.....	85,223	43,531	51.1	43,391	40,446	652	39,794	2,945	5.8	41,692
1980.....	86,634	44,733	51.7	44,574	41,283	646	40,637	3,291	7.4	41,871
Monthly data, seasonally adjusted²										
1980:										
June.....	86,530	44,655	51.6	44,498	41,183	627	40,556	3,315	7.4	41,875
July.....	85,681	44,910	51.8	44,749	41,321	632	40,689	3,428	7.7	41,771
August....	86,780	44,961	51.8	44,798	41,414	635	40,809	3,384	7.6	41,819
September..	86,892	44,823	51.6	44,660	41,426	673	40,753	3,234	7.2	42,068
October...	87,006	44,953	51.7	44,788	41,325	651	40,674	3,463	7.7	42,053
November..	87,110	45,062	51.7	44,897	41,442	649	40,793	3,455	7.7	42,048
December..	87,213	44,978	51.6	44,813	41,362	743	40,619	3,451	7.7	42,235
1981:										
January...	87,313	45,349	51.9	45,178	41,684	691	40,993	3,493	7.7	41,964
February...	87,402	45,513	52.1	45,343	41,882	695	41,187	3,461	7.6	41,888
March.....	87,497	45,723	52.3	45,549	42,029	677	41,352	3,519	7.7	41,764
April.....	87,578	46,003	52.5	45,829	42,288	678	41,610	3,541	7.7	41,575
May.....	87,684	46,335	52.8	46,161	42,517	661	41,856	3,644	7.9	41,349
June.....	87,793	46,020	52.4	45,842	42,366	619	41,747	3,475	7.6	41,774

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

² Because seasonality, by definition, does not exist in population figures, data for "total noninstitutional population" are not seasonally adjusted.

A-3. Employment status of the noninstitutional population by sex, age, and race

[Numbers in thousands]

Sex, age, and race	June 1981										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
MALES											
16 years and over	63,646	78.9	61,693	57,230	4,463	7.2	17,041	310	2,193	1,579	12,960
16 to 21 years	9,447	75.4	8,807	7,147	1,660	18.9	3,382	11	1,619	35	1,417
16 to 19 years	5,695	69.3	5,428	4,263	1,165	21.5	2,518	8	1,329	18	1,162
16 to 17 years	2,321	57.9	2,308	1,713	596	25.8	1,688	6	922	8	752
18 to 19 years	3,374	80.3	3,120	2,550	569	18.3	830	3	407	11	410
20 to 64 years	56,100	89.8	54,414	51,168	3,246	6.0	6,352	156	850	1,143	4,202
20 to 24 years	9,385	89.6	8,636	7,547	1,089	12.6	1,086	8	532	44	503
25 to 54 years	39,618	94.4	38,682	36,767	1,915	5.0	2,355	87	319	624	1,333
25 to 29 years	8,997	94.9	8,628	7,986	642	7.4	488	9	188	64	226
30 to 34 years	8,515	95.9	8,252	7,803	449	5.4	367	19	64	77	208
35 to 39 years	6,642	95.6	6,460	6,203	257	4.0	336	19	34	86	167
40 to 44 years	5,492	95.0	5,406	5,201	205	3.8	291	9	11	89	181
45 to 49 years	4,983	93.6	4,955	4,776	179	3.6	342	11	14	119	198
50 to 54 years	4,989	89.8	4,982	4,799	183	3.7	570	21	8	188	352
55 to 64 years	7,097	70.9	7,096	6,854	242	3.4	2,912	60	9	476	2,367
55 to 59 years	4,368	81.3	4,367	4,203	164	3.8	1,094	29	6	258	712
60 to 64 years	2,729	58.9	2,729	2,651	78	2.9	1,908	32	3	218	1,655
65 years and over	1,851	18.5	1,851	1,799	52	2.8	8,151	146	4	417	7,595
65 to 69 years	1,066	27.7	1,066	1,030	35	3.4	2,786	52	3	138	2,593
70 years and over	785	12.8	785	769	16	2.1	5,374	94	--	278	5,002
White											
16 years and over	56,508	79.8	55,001	51,550	3,451	6.3	14,283	246	1,592	1,228	11,217
16 to 21 years	8,270	78.2	7,784	6,515	1,269	16.3	2,307	7	1,199	22	1,078
16 to 19 years	5,010	72.6	4,802	3,908	895	18.6	1,894	5	986	15	888
16 to 17 years	2,031	60.6	2,020	1,563	457	22.6	1,318	3	713	7	596
18 to 19 years	2,979	83.8	2,782	2,345	437	15.7	576	3	273	8	293
20 to 64 years	49,811	90.8	48,513	45,993	2,521	5.2	5,072	119	602	878	3,473
20 to 24 years	8,141	90.9	7,587	6,770	817	10.8	817	6	407	24	381
25 to 54 years	35,202	95.4	34,458	32,948	1,510	4.4	1,735	62	192	448	1,003
25 to 29 years	15,453	96.4	14,964	14,096	868	5.8	582	20	157	93	306
30 to 34 years	10,826	96.2	10,602	10,246	356	3.4	427	20	21	131	255
35 to 44 years	8,923	92.8	8,891	8,606	285	3.2	697	22	14	219	442
55 to 64 years	6,469	71.7	6,468	6,275	193	3.0	2,550	51	4	406	2,089
55 to 59 years	3,983	82.5	3,982	3,849	134	3.4	848	21	3	224	600
60 to 64 years	2,486	59.4	2,486	2,426	59	2.4	1,702	30	1	182	1,489
65 years and over	1,686	18.7	1,686	1,649	36	2.1	7,317	122	4	335	6,856
Black and other											
16 years and over	7,138	72.1	6,692	5,680	1,011	15.1	2,757	64	600	351	1,743
16 to 21 years	1,177	60.3	1,022	631	391	38.2	776	4	420	13	339
16 to 19 years	685	52.3	626	355	270	43.2	624	3	343	4	274
16 to 17 years	290	44.0	288	150	138	48.0	370	3	209	1	157
18 to 19 years	395	60.9	337	205	132	39.2	254	--	134	3	117
20 to 64 years	6,287	83.0	5,900	5,176	725	12.3	1,290	37	257	265	731
20 to 24 years	1,244	82.2	1,048	777	271	25.9	269	2	125	19	122
25 to 54 years	4,416	87.0	4,224	3,819	405	9.6	659	26	127	176	330
25 to 29 years	2,059	88.3	1,916	1,693	223	11.6	273	8	94	42	129
30 to 34 years	1,308	88.5	1,263	1,158	105	8.3	171	8	25	45	93
35 to 44 years	1,050	83.0	1,045	968	77	7.3	215	10	8	89	108
55 to 64 years	628	63.4	628	579	49	7.8	362	9	5	70	278
55 to 59 years	385	71.1	385	355	30	7.8	157	8	3	34	112
60 to 64 years	243	54.2	243	225	19	7.6	205	1	2	36	166
65 years and over	166	16.4	166	149	16	9.8	844	24	--	82	738

HOUSEHOLD DATA

A-3. Employment status of the noninstitutional population by sex, age, and race—Continued

(Numbers in thousands)

Sex, age, and race	June 1981										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
FEMALES											
16 years and over	46,135	52.5	45,928	42,111	3,817	8.3	41,538	32,153	2,233	1,024	6,278
16 to 21 years	7,749	63.2	7,681	6,225	1,456	19.0	4,511	1,512	1,697	12	1,289
16 to 19 years	4,731	58.9	4,702	3,652	1,050	22.3	3,296	786	1,416	9	1,087
16 to 17 years	1,925	49.6	1,924	1,401	523	27.2	1,357	307	941	5	704
18 to 19 years	2,806	67.7	2,778	2,251	527	19.0	1,339	479	474	4	382
20 to 64 years	40,196	61.4	40,046	37,323	2,724	6.8	25,235	21,516	811	497	2,412
20 to 24 years	7,447	71.2	7,361	6,445	916	12.4	3,010	2,146	468	13	384
25 to 54 years	28,145	64.3	28,082	26,399	1,682	6.0	15,642	13,820	334	250	1,239
25 to 29 years	6,419	66.4	6,376	5,854	522	8.2	3,252	2,828	147	22	255
30 to 34 years	5,889	64.6	5,875	5,503	371	6.3	3,232	2,910	80	26	216
35 to 39 years	4,735	64.9	4,732	4,469	262	5.5	2,559	2,279	47	28	205
40 to 44 years	4,083	66.5	4,081	3,863	218	5.3	2,056	1,839	26	24	166
45 to 49 years	3,624	64.4	3,623	3,441	182	5.0	2,007	1,780	20	62	146
50 to 54 years	3,396	57.2	3,395	3,269	126	3.7	2,536	2,184	14	88	250
55 to 64 years	4,604	41.2	4,604	4,477	127	2.7	6,583	5,551	9	234	789
55 to 59 years	2,892	48.9	2,892	2,810	83	2.9	3,025	2,644	6	118	257
60 to 64 years	1,712	32.5	1,712	1,668	44	2.6	3,558	2,907	3	116	532
65 years and over	1,179	8.2	1,179	1,136	43	3.6	13,156	9,852	7	518	2,779
65 to 69 years	745	15.5	745	717	28	3.8	4,052	3,195	--	92	766
70 years and over	434	4.6	434	420	14	3.3	9,104	6,658	7	426	2,013
White											
16 years and over	39,774	52.2	39,645	36,826	2,820	7.1	36,386	28,625	1,588	773	5,400
16 to 21 years	6,772	66.0	6,724	5,667	1,057	15.7	3,434	1,217	1,214	8	1,054
16 to 19 years	4,173	62.2	4,153	3,366	787	18.9	2,531	628	1,011	7	885
16 to 17 years	1,704	52.8	1,704	1,310	394	23.1	1,522	240	700	4	578
18 to 19 years	2,469	71.0	2,449	2,056	393	16.0	1,009	388	311	3	308
20 to 64 years	34,556	61.2	34,447	32,450	1,999	5.8	21,932	18,937	574	353	2,059
20 to 24 years	6,384	72.5	6,323	5,688	635	10.0	2,421	1,757	335	11	319
25 to 54 years	24,081	63.9	24,034	22,777	1,257	5.2	13,593	12,125	234	183	1,051
25 to 34 years	10,444	65.2	10,402	9,763	639	6.1	5,567	4,981	157	38	391
35 to 44 years	7,527	65.0	7,523	7,154	368	4.9	4,061	3,664	51	34	312
45 to 54 years	6,111	60.7	6,110	5,860	250	4.1	3,964	3,480	25	111	349
55 to 64 years	4,091	40.9	4,091	3,984	106	2.6	5,917	5,055	5	169	689
55 to 59 years	2,584	49.0	2,584	2,513	71	2.7	2,694	2,383	2	80	229
60 to 64 years	1,507	31.9	1,507	1,471	35	2.3	3,223	2,671	2	89	460
65 years and over	1,045	8.1	1,045	1,010	34	3.3	11,923	9,060	3	403	2,456
Black and other											
16 years and over	6,332	54.4	6,282	5,285	997	15.9	5,302	3,528	646	251	877
16 to 21 years	977	49.0	957	558	399	41.7	1,017	295	483	4	235
16 to 19 years	557	42.1	549	286	263	47.9	765	158	405	2	201
16 to 17 years	220	33.6	220	91	129	58.7	435	66	241	1	127
18 to 19 years	337	50.5	329	195	134	40.7	330	91	164	1	74
20 to 64 years	5,640	63.1	5,599	4,873	726	13.0	3,304	2,579	237	134	353
20 to 24 years	1,062	64.4	1,038	757	281	27.0	589	388	133	2	65
25 to 54 years	4,064	66.5	4,048	3,623	426	10.5	2,049	1,694	100	67	187
25 to 34 years	1,864	67.0	1,849	1,595	254	13.8	916	757	70	9	80
35 to 44 years	1,291	70.0	1,290	1,178	112	8.7	553	454	21	18	60
45 to 54 years	909	61.1	909	850	59	6.5	580	484	9	39	48
55 to 64 years	513	43.5	513	493	20	4.0	666	496	4	65	101
55 to 59 years	308	48.2	308	296	11	3.7	331	261	4	38	28
60 to 64 years	205	38.0	205	196	9	4.3	335	235	--	27	73
65 years and over	134	9.8	134	126	8	6.0	1,233	792	4	115	323

A-4. Labor force by sex, age, and race

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981
MALES								
16 years and over	63,375	63,646	79.6	78.9	51,440	61,693	79.1	78.4
16 to 19 years	6,147	5,695	73.3	69.3	5,870	5,428	72.4	68.3
16 to 17 years	2,592	2,321	62.9	57.9	2,575	2,308	62.8	57.8
18 to 19 years	3,555	3,374	83.3	80.3	3,295	3,120	82.2	79.0
20 to 24 years	9,376	9,385	90.5	89.6	8,646	8,636	89.8	88.8
25 to 54 years	38,789	39,618	94.4	94.4	37,863	38,682	94.2	94.2
25 to 34 years	16,924	17,511	95.5	95.3	15,309	16,880	95.3	95.2
35 to 44 years	11,859	12,134	95.4	95.3	11,584	11,866	95.3	95.2
45 to 54 years	10,006	9,972	91.4	91.6	9,969	9,937	91.4	91.6
55 to 64 years	7,192	7,097	72.6	70.9	7,191	7,096	72.6	70.9
55 to 59 years	4,400	4,368	81.9	81.3	4,399	4,367	81.9	81.3
60 to 64 years	2,791	2,729	61.6	58.9	2,791	2,729	61.6	58.9
65 years and over	1,871	1,851	19.0	18.5	1,871	1,851	19.0	18.5
White								
16 years and over	56,279	56,508	80.5	79.8	54,780	55,001	80.0	79.4
16 to 19 years	5,406	5,010	76.4	72.6	5,199	4,802	75.7	71.7
16 to 17 years	2,290	2,031	66.3	60.6	2,277	2,020	66.1	60.5
18 to 19 years	3,115	2,979	86.0	83.8	2,922	2,782	85.2	82.8
20 to 24 years	8,142	8,141	91.6	90.9	7,597	7,587	91.1	90.3
25 to 54 years	34,457	35,202	95.2	95.4	33,712	34,458	95.1	95.3
25 to 34 years	14,909	15,453	96.1	96.4	14,425	14,964	96.0	96.3
35 to 44 years	10,584	10,826	96.2	96.2	10,354	10,602	96.1	96.1
45 to 54 years	8,965	8,923	92.5	92.8	8,933	8,891	92.5	92.7
55 to 64 years	6,583	6,469	73.6	71.7	6,582	6,468	73.6	71.7
55 to 59 years	4,025	3,983	83.1	82.5	4,023	3,982	83.1	82.4
60 to 64 years	2,559	2,486	62.4	59.4	2,559	2,486	62.4	59.4
65 years and over	1,691	1,686	19.1	18.7	1,691	1,686	19.1	18.7
Black and other								
16 years and over	7,095	7,138	73.7	72.1	6,660	6,692	72.5	70.8
16 to 19 years	741	685	56.7	52.3	671	626	54.3	50.1
16 to 17 years	301	290	45.6	44.0	299	288	45.3	43.8
18 to 19 years	440	395	68.1	60.9	373	337	64.5	57.0
20 to 24 years	1,234	1,244	83.6	82.2	1,049	1,048	81.2	79.6
25 to 54 years	4,331	4,416	88.5	87.0	4,153	4,224	88.1	86.5
25 to 34 years	2,015	2,059	91.5	88.3	1,885	1,916	90.9	87.5
35 to 44 years	1,275	1,308	88.8	88.5	1,230	1,263	88.4	88.1
45 to 54 years	1,040	1,050	83.1	83.0	1,036	1,045	83.0	82.9
55 to 64 years	608	628	63.3	63.4	608	628	63.3	63.4
55 to 59 years	376	385	70.8	71.1	376	385	70.8	71.1
60 to 64 years	233	243	54.1	54.2	233	243	54.1	54.2
65 years and over	180	166	18.3	16.4	180	166	18.3	16.4

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A-4. Labor force by sex, age, and race—Continued

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981
FEMALES								
16 years and over	44,784	46,105	51.8	52.5	44,627	45,928	51.7	52.4
16 to 19 years	4,967	4,731	60.6	58.9	4,939	4,702	60.5	58.8
16 to 17 years	2,076	1,925	52.1	49.6	2,075	1,924	52.1	49.6
18 to 19 years	2,891	2,806	68.7	67.7	2,864	2,778	68.5	67.5
20 to 24 years	7,281	7,447	70.4	71.2	7,205	7,361	70.1	71.0
25 to 54 years	26,896	28,145	62.7	64.3	26,843	28,082	62.7	64.2
25 to 34 years	11,532	12,308	63.7	65.5	11,485	12,251	63.6	65.4
35 to 44 years	8,493	8,818	64.7	65.6	8,439	8,813	64.7	65.6
45 to 54 years	6,870	7,019	59.0	60.7	6,869	7,018	59.0	60.7
55 to 64 years	4,514	4,604	40.8	41.2	4,514	4,604	40.8	41.2
55 to 59 years	2,778	2,892	47.0	48.9	2,778	2,892	47.0	48.9
60 to 64 years	1,735	1,712	33.6	32.5	1,735	1,712	33.6	32.5
65 years and over	1,126	1,179	8.0	8.2	1,126	1,179	8.0	8.2
White								
16 years and over	38,677	39,774	51.4	52.2	38,560	39,645	51.3	52.1
16 to 19 years	4,385	4,173	63.9	62.2	4,355	4,153	63.7	62.1
16 to 17 years	1,840	1,704	55.3	52.8	1,839	1,704	55.3	52.8
18 to 19 years	2,545	2,469	71.8	71.0	2,526	2,449	71.7	70.8
20 to 24 years	6,288	6,384	72.0	72.5	6,232	6,323	71.8	72.3
25 to 54 years	23,000	24,081	62.2	63.9	22,960	24,034	62.1	63.9
25 to 34 years	9,752	10,444	63.0	65.2	9,717	10,402	62.9	65.1
35 to 44 years	7,279	7,527	64.2	65.0	7,276	7,523	64.2	64.9
45 to 54 years	5,968	6,111	58.7	60.7	5,968	6,110	58.7	60.6
55 to 64 years	4,005	4,091	40.4	40.9	4,005	4,091	40.4	40.9
55 to 59 years	2,458	2,584	46.5	49.0	2,458	2,584	46.5	49.0
60 to 64 years	1,547	1,507	33.3	31.9	1,547	1,507	33.3	31.9
65 years and over	998	1,045	7.9	8.1	998	1,045	7.9	8.1
Black and other								
16 years and over	6,107	6,332	54.0	54.4	6,057	6,282	53.9	54.2
16 to 19 years	582	557	44.0	42.1	574	549	43.7	41.8
16 to 17 years	236	220	35.9	33.6	236	220	35.9	33.6
18 to 19 years	346	337	52.0	50.5	338	329	51.4	49.9
20 to 24 years	993	1,062	61.5	64.4	973	1,038	61.0	63.8
25 to 54 years	3,896	4,064	66.1	66.5	3,883	4,048	66.0	66.4
25 to 34 years	1,780	1,864	67.5	67.0	1,768	1,849	67.4	66.9
35 to 44 years	1,214	1,291	67.9	70.0	1,213	1,290	67.9	70.0
45 to 54 years	902	909	61.3	61.1	902	909	61.3	61.1
55 to 64 years	508	513	44.5	43.5	508	513	44.5	43.5
55 to 59 years	320	308	51.4	48.2	320	308	51.4	48.2
60 to 64 years	188	205	36.3	38.0	188	205	36.3	38.0
65 years and over	128	134	9.7	9.8	128	134	9.7	9.8

A-5. Employment status of black workers by sex and age

[Numbers in thousands]

Sex and age	June 1981						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
TOTAL							
16 years and over	10,371	9,132	206	8,926	1,839	15.8	6,823
16 to 19 years	1,014	530	33	497	484	47.8	1,218
16 to 17 years	440	194	18	176	246	55.9	709
18 to 19 years	574	336	16	320	238	41.5	509
20 to 24 years	1,811	1,291	31	1,260	519	28.7	689
25 to 54 years	6,898	6,138	100	6,038	760	11.0	2,222
25 to 34 years	3,138	2,698	35	2,663	440	14.0	931
35 to 44 years	2,142	1,942	43	1,899	200	9.4	603
45 to 54 years	1,618	1,497	22	1,475	120	7.4	688
55 to 64 years	990	933	23	910	56	5.7	896
55 to 59 years	579	549	12	537	30	5.1	430
60 to 64 years	411	384	12	373	27	6.5	466
65 years and over	258	239	18	221	19	7.4	1,799
Males							
16 years and over	5,646	4,726	186	4,540	920	16.3	2,325
16 to 19 years	537	298	32	266	239	44.5	544
16 to 17 years	245	126	18	108	119	48.6	328
18 to 19 years	292	172	15	157	119	40.8	217
20 to 24 years	914	660	29	631	253	27.7	195
25 to 54 years	3,525	3,147	84	3,063	378	10.7	550
25 to 34 years	1,593	1,384	30	1,354	209	13.1	206
35 to 44 years	1,059	961	33	929	98	9.3	149
45 to 54 years	872	800	21	779	71	8.1	195
55 to 64 years	540	500	22	479	39	7.2	319
55 to 59 years	319	298	11	287	21	6.6	144
60 to 64 years	221	202	12	192	18	8.1	176
65 years and over	131	120	18	102	11	8.4	718
Females							
16 years and over	5,325	4,406	20	4,386	919	17.3	4,498
16 to 19 years	477	232	1	231	245	51.4	674
16 to 17 years	195	68	--	68	127	65.2	381
18 to 19 years	282	164	1	163	119	42.0	292
20 to 24 years	897	631	2	629	266	29.7	494
25 to 54 years	3,373	2,991	16	2,975	382	11.3	1,672
25 to 34 years	1,545	1,314	5	1,309	231	15.0	725
35 to 44 years	1,083	981	10	973	102	9.4	454
45 to 54 years	746	697	1	696	49	6.6	493
55 to 64 years	450	433	1	431	17	3.9	577
55 to 59 years	260	251	1	250	9	3.3	286
60 to 64 years	193	182	--	181	9	4.6	290
65 years and over	127	119	--	119	8	6.3	1,081

NOTE: Data relate to black workers only. In the 1970 census, they constituted about 89 percent of the "black and other" population group.

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

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981
TOTAL								
Total noninstitutional population	166,105	168,480	71,190	72,474	78,340	79,766	16,575	16,240
Total labor force	108,159	109,752	57,228	57,951	39,817	41,375	11,114	10,426
Percent of population	65.1	65.1	80.4	80.0	50.8	51.9	67.1	64.2
Civilian labor force	106,067	107,621	55,570	56,265	39,688	41,225	10,809	10,130
Employed	97,776	99,341	52,153	52,967	37,087	38,459	8,536	7,915
Agriculture	3,737	3,763	2,470	2,485	689	701	577	577
Nonagricultural industries	94,039	95,578	49,683	50,482	36,397	37,757	7,959	7,339
Unemployed	8,291	8,279	3,417	3,298	2,601	2,767	2,273	2,215
Percent of labor force	7.8	7.7	6.1	5.9	6.6	6.7	21.0	21.9
Not in labor force	57,946	58,729	13,962	14,523	38,523	38,391	5,451	5,814
White								
Total noninstitutional population	145,181	145,951	62,874	63,887	59,351	69,455	13,946	13,609
Total labor force	94,956	96,282	50,874	51,497	34,292	35,601	9,791	9,184
Percent of population	65.4	65.5	80.9	80.6	53.2	51.3	70.2	67.5
Civilian labor force	93,340	94,647	49,581	50,139	34,195	35,492	9,564	8,955
Employed	86,920	88,376	46,876	47,642	32,231	33,460	7,814	7,274
Agriculture	3,469	3,498	2,271	2,294	648	665	550	539
Nonagricultural industries	83,451	84,878	44,604	45,348	31,582	32,795	7,264	6,735
Unemployed	6,420	6,271	2,706	2,557	1,964	2,033	1,750	1,582
Percent of labor force	6.9	6.6	5.5	5.1	5.7	5.7	18.3	18.8
Not in labor force	50,225	50,669	12,000	12,389	34,069	33,855	4,155	4,425
Black and other								
Total noninstitutional population	20,924	21,529	8,316	8,587	9,979	10,311	2,629	2,631
Total labor force	13,203	13,470	6,354	6,453	5,525	5,774	1,323	1,242
Percent of population	63.1	62.6	76.4	75.2	55.4	55.0	50.3	47.2
Civilian labor force	12,727	12,974	5,989	6,066	5,433	5,733	1,245	1,175
Employed	10,856	10,965	5,278	5,325	4,856	4,999	722	641
Agriculture	268	265	199	191	41	37	27	38
Nonagricultural industries	10,588	10,700	5,078	5,134	4,815	4,962	695	504
Unemployed	1,871	2,009	711	741	637	734	523	534
Percent of labor force	14.7	15.5	11.9	12.2	11.6	12.8	42.0	45.4
Not in labor force	7,722	8,059	1,962	2,134	4,454	4,537	1,306	1,389

A-7. Employment status of the noninstitutional population 16 to 21 years of age by major activity, sex, and race

(Numbers in thousands)

Employment status and major activity	June 1981								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	24,789	12,529	12,260	20,843	10,577	10,266	3,946	1,952	1,994
Total labor force	17,196	9,447	7,749	15,042	8,270	6,772	2,154	1,177	977
Percent of population	69.4	75.4	63.2	72.2	78.2	66.0	54.6	60.3	49.0
Civilian labor force	16,488	8,807	7,681	14,509	7,784	6,724	1,979	1,022	957
Employed	13,372	7,147	6,225	12,182	6,515	5,667	1,189	631	558
Agriculture	785	654	131	729	599	130	56	55	2
Nonagricultural industries	12,587	6,493	6,094	11,454	5,916	5,538	1,133	577	556
Unemployed	3,116	1,660	1,456	2,326	1,269	1,057	790	391	399
Looking for full-time work	2,423	1,336	1,086	1,771	1,002	770	651	335	316
Looking for part-time work	694	324	370	555	268	287	139	56	82
Percent of labor force	18.9	18.9	19.0	16.0	16.3	15.7	39.9	38.2	41.7
Not in labor force	7,593	3,082	4,511	5,801	2,307	3,494	1,792	776	1,017
Major activity: going to school									
Civilian labor force	1,616	855	761	1,371	730	641	245	125	120
Employed	1,150	636	515	1,036	573	463	114	63	51
Agriculture	36	25	11	32	21	11	5	5	--
Nonagricultural industries	1,114	610	504	1,004	552	452	110	58	51
Unemployed	466	219	247	335	157	178	131	62	69
Looking for full-time work	231	126	105	155	85	70	76	41	35
Looking for part-time work	235	93	141	180	72	108	55	22	34
Percent of labor force	28.8	25.6	32.4	24.4	21.5	27.7	53.4	49.7	57.2
Not in labor force	3,315	1,619	1,697	2,413	1,199	1,214	902	420	483
Major activity: other									
Civilian labor force	14,872	7,952	6,920	13,138	7,055	6,083	1,734	897	837
Employed	12,221	6,511	5,710	11,146	5,943	5,204	1,075	568	507
Agriculture	748	628	120	697	579	119	52	50	2
Nonagricultural industries	11,473	5,883	5,590	10,450	5,364	5,085	1,023	518	505
Unemployed	2,650	1,441	1,209	1,991	1,112	879	659	329	330
Looking for full-time work	2,191	1,211	981	1,616	916	700	575	294	281
Looking for part-time work	459	230	229	375	196	180	84	35	49
Percent of labor force	17.8	18.1	17.5	15.2	15.8	14.5	38.0	36.6	39.5
Not in labor force	4,278	1,464	2,814	3,388	1,108	2,280	890	356	534

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A-8. Full- and part-time status of the civilian labor force by sex, age, and race

[Numbers in thousands]

Sex, age, and race	June 1981								
	Full-time labor force					Part-time labor force			
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time ¹	Unemployed (looking for part-time work)	
		Full- time schedules ¹	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
Both sexes, 16 years and over.....	93,489	81,498	4,947	7,044	7.5	14,132	12,896	1,235	8.7
16 to 21 years.....	12,213	8,051	1,740	2,423	19.8	4,274	3,581	694	16.2
16 to 19 years.....	6,678	3,785	1,274	1,618	24.2	3,453	2,855	597	17.3
16 to 17 years.....	2,135	889	560	687	32.2	2,097	1,665	432	20.6
18 to 19 years.....	4,542	2,897	714	931	20.5	1,356	1,191	165	12.2
20 years and over.....	86,812	77,713	3,673	5,425	6.3	10,679	10,041	638	6.0
20 to 24 years.....	14,330	11,565	957	1,808	12.6	1,666	1,470	196	11.8
25 years and over.....	72,482	66,148	2,716	3,618	5.0	9,013	8,571	442	4.9
25 to 54 years.....	60,585	55,113	2,228	3,242	5.4	6,180	5,826	354	5.7
55 years and over.....	11,897	11,035	488	376	3.2	2,832	2,745	87	3.1
Males, 16 years and over.....	57,534	51,131	2,374	4,029	7.0	4,159	3,725	434	10.4
16 to 21 years.....	6,855	4,639	880	1,336	19.5	1,952	1,628	324	16.6
16 to 19 years.....	3,779	2,262	641	876	23.2	1,649	1,360	289	17.5
20 years and over.....	53,756	48,869	1,734	3,153	5.9	2,509	2,365	144	5.8
20 to 24 years.....	8,062	6,531	499	1,032	12.8	573	515	57	9.9
25 years and over.....	45,693	42,338	1,235	2,121	4.6	1,936	1,848	88	4.5
25 to 54 years.....	37,896	35,030	997	1,871	4.9	786	742	45	5.7
55 years and over.....	7,797	7,308	238	251	3.2	1,150	1,107	43	3.7
Females, 16 years and over.....	35,955	30,367	2,572	3,015	8.4	9,973	9,171	802	8.0
16 to 21 years.....	5,359	3,412	860	1,086	20.3	2,322	1,953	370	15.9
16 to 19 years.....	2,899	1,523	633	742	25.6	1,803	1,496	308	17.1
20 years and over.....	33,056	28,844	1,939	2,273	6.9	8,170	7,676	494	6.0
20 to 24 years.....	6,267	5,034	458	776	12.4	1,093	954	139	12.7
25 years and over.....	26,789	23,811	1,481	1,496	5.6	7,076	6,721	355	5.0
25 to 54 years.....	22,689	20,085	1,232	1,373	6.1	5,393	5,083	310	5.7
55 years and over.....	4,100	3,727	249	124	3.0	1,683	1,638	45	2.7
White									
Males, 16 years and over.....	51,230	46,148	1,981	3,101	6.1	3,772	3,421	350	9.3
16 to 21 years.....	6,013	4,271	741	1,002	16.7	1,771	1,504	268	15.1
16 to 19 years.....	3,311	2,110	540	660	19.9	1,492	1,257	234	15.7
20 years and over.....	47,919	44,038	1,441	2,441	5.1	2,280	2,164	116	5.1
20 to 24 years.....	7,069	5,880	422	767	10.8	519	468	51	9.8
25 years and over.....	40,851	38,158	1,019	1,674	4.1	1,761	1,696	65	3.7
25 to 54 years.....	33,741	31,450	815	1,475	4.4	717	682	34	4.7
55 years and over.....	7,110	6,707	204	199	2.8	1,044	1,014	30	2.9
Females, 16 years and over.....	30,582	26,286	2,131	2,165	7.1	9,063	8,409	654	7.2
16 to 21 years.....	4,632	3,085	777	770	15.6	2,092	1,805	287	13.7
16 to 19 years.....	2,525	1,399	578	549	21.7	1,628	1,389	238	14.6
20 years and over.....	28,057	24,888	1,552	1,617	5.8	7,436	7,020	416	5.6
20 to 24 years.....	5,338	4,426	391	521	9.8	985	871	114	11.5
25 years and over.....	22,719	20,462	1,161	1,095	4.8	6,451	6,148	303	4.7
25 to 54 years.....	19,367	17,118	961	988	5.2	4,967	4,698	269	5.4
55 years and over.....	3,652	3,344	201	107	2.9	1,484	1,450	34	2.3
Black and other									
Males, 16 years and over.....	6,305	4,983	394	928	14.7	387	304	84	21.6
16 to 21 years.....	842	368	139	335	39.8	181	125	56	31.1
16 to 19 years.....	468	152	101	215	46.0	158	103	55	35.0
20 years and over.....	5,837	4,831	293	713	12.2	229	201	28	12.3
20 to 24 years.....	993	651	77	265	26.7	55	49	6	(2)
25 years and over.....	4,843	4,179	216	447	9.2	175	152	23	13.1
25 to 54 years.....	4,155	3,578	181	395	9.5	69	59	10	(2)
55 years and over.....	687	601	34	52	7.6	105	93	13	12.4
Females, 16 years and over.....	5,373	4,081	442	850	15.8	910	762	147	16.2
16 to 21 years.....	726	327	83	316	43.6	231	148	82	35.8
16 to 19 years.....	373	124	55	194	51.9	176	106	69	39.5
20 years and over.....	4,999	3,957	386	656	13.1	734	656	78	10.6
20 to 24 years.....	929	607	67	255	27.4	109	83	26	23.6
25 years and over.....	4,070	3,350	320	401	9.9	625	573	53	8.5
25 to 54 years.....	3,621	2,967	271	384	10.6	426	385	41	9.6
55 years and over.....	448	383	49	18	4.0	199	188	12	6.0

¹ Employed persons with a job but not at work are distributed proportionately among the full- and part-time employed categories.

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

A-9. Employment status of the noninstitutional population by family relationship

[Numbers in thousands]

Family relationship	June 1981									
	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, 18 years and over	107,621	64.7	99,341	8,279	7.7	58,729	32,463	4,426	2,602	19,237
Husbands	38,951	80.5	37,474	1,477	3.8	9,442	110	159	950	8,223
With employed wife	20,917	91.9	20,166	752	3.6	1,854	33	80	348	1,393
With unemployed wife	1,214	92.9	1,082	132	10.8	93	5	1	22	64
With wife not in labor force	14,820	69.2	16,222	594	3.5	7,495	71	78	580	6,766
Wives	74,078	49.8	27,776	1,307	5.4	24,315	21,782	225	283	2,024
With employed husband	21,248	56.7	20,166	1,082	5.1	16,226	15,040	166	113	907
With unemployed husband	883	59.8	752	132	14.9	594	538	14	5	37
With husband not in labor force	1,947	20.6	1,854	93	4.8	7,495	6,204	46	165	1,080
Relatives in married-couple families	14,785	69.4	12,437	2,353	15.9	6,530	1,059	2,477	290	2,704
16 to 19 years	7,137	65.8	5,760	1,376	19.3	3,716	267	1,855	20	1,574
20 to 24 years	5,218	81.8	4,503	714	13.7	1,160	170	544	22	425
25 years and over	2,431	59.5	2,169	263	10.8	1,654	622	78	248	705
Females who maintain families	5,462	59.6	4,892	571	10.4	3,710	2,921	95	129	565
Relatives in families maintained by females	4,678	59.9	3,571	1,107	23.7	3,129	858	849	220	1,202
16 to 19 years	1,549	54.1	1,005	544	35.1	1,317	159	653	5	500
20 to 24 years	1,512	77.8	1,124	388	25.7	432	108	148	19	156
25 years and over	1,617	53.9	1,442	175	10.8	1,380	591	48	196	546
Males who maintain families	1,828	76.2	1,701	126	6.9	572	24	24	74	450
Relatives in families maintained by males	1,463	60.7	1,247	216	14.8	946	420	194	54	277
16 to 19 years	379	62.1	287	92	24.2	231	25	129	2	75
20 to 24 years	430	79.9	356	74	17.2	108	35	56	3	15
25 years and over	654	51.9	604	50	7.6	607	360	9	49	187
Persons living alone	10,019	53.8	9,500	519	5.2	8,606	4,817	129	484	3,175
Males	5,429	71.8	4,931	318	6.1	2,066	125	77	211	1,653
Females	4,770	42.2	4,569	201	4.2	6,539	4,692	52	273	1,523
All others ¹	6,357	81.1	5,752	603	9.5	1,479	472	274	118	617

¹ The majority of these persons are living with nonrelatives. Also included are persons in married-couple families where the husband is in the Armed Forces, persons in secondary families, and some whose family status is unknown.

A-10. Unemployed persons by marital status, race, age, and sex

Marital status, race, and age	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981
Total, 16 years and over	4,637	4,463	7.5	7.2	3,654	3,817	8.2	8.3
Married, spouse present	1,708	1,564	4.3	3.9	1,418	1,357	5.9	5.5
Widowed, divorced, or separated	432	419	8.7	7.8	592	694	7.1	7.8
Single (never married)	2,497	2,480	15.2	15.1	1,645	1,766	13.3	14.1
White, 16 years and over	3,669	3,451	6.7	6.3	2,751	2,820	7.1	7.1
Married, spouse present	1,438	1,295	3.9	3.6	1,209	1,140	5.6	5.2
Widowed, divorced, or separated	315	311	7.7	7.0	412	493	6.1	6.9
Single (never married)	1,916	1,846	13.5	13.0	1,131	1,187	10.9	11.3
Black and other, 16 years and over	968	1,011	14.5	15.1	902	997	14.9	15.9
Married, spouse present	270	269	7.7	7.7	209	217	8.4	8.6
Widowed, divorced, or separated	117	109	13.3	11.8	180	201	11.1	11.8
Single (never married)	581	634	25.8	27.8	514	579	26.3	28.3
Total, 20 to 64 years of age	3,357	3,246	6.3	6.0	2,575	2,724	6.7	6.8
Married, spouse present	1,643	1,499	4.3	3.9	1,318	1,283	5.7	5.4
Widowed, divorced, or separated	417	413	8.8	8.0	564	645	7.4	7.9
Single (never married)	1,296	1,333	12.1	12.0	692	797	9.0	9.9
White, 20 to 64 years of age	2,667	2,521	5.6	5.2	1,948	1,999	5.9	5.8
Married, spouse present	1,391	1,242	4.0	3.6	1,122	1,078	5.4	5.0
Widowed, divorced, or separated	305	306	7.9	7.2	399	457	6.5	7.0
Single (never married)	970	972	10.7	10.3	426	463	6.7	7.1
Black and other, 20 to 64 years of age	690	725	11.9	12.3	628	726	11.7	13.0
Married, spouse present	252	257	7.4	7.7	196	205	8.1	8.3
Widowed, divorced, or separated	112	107	13.4	12.0	166	188	10.8	11.6
Single (never married)	327	362	20.6	21.9	266	334	18.9	21.9

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A-11. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981
Total, 16 years and over	8,291	8,279	7.8	7.7	7.5	7.2	8.2	8.3
White-collar workers	2,048	2,165	3.9	4.0	2.8	2.8	4.9	5.1
Professional and technical	454	512	2.9	3.2	2.2	2.4	3.7	4.1
Managers and administrators, except farm	251	294	2.3	2.6	1.8	2.2	3.5	3.5
Sales workers	295	295	4.7	4.4	3.7	3.2	5.8	5.8
Clerical workers	1,049	1,065	5.5	5.5	5.3	4.6	5.5	5.7
Blue-collar workers	3,601	3,197	10.3	9.1	9.7	8.5	13.0	11.7
Craft and kindred workers	906	882	6.7	6.5	6.7	6.6	6.3	5.2
Carpenters and other construction craft workers	447	451	10.2	10.7	10.1	10.7	11.0	10.8
All other	459	431	5.0	4.6	5.0	4.6	5.7	4.6
Operatives, except transport	1,575	1,295	13.3	10.9	12.9	9.5	13.9	13.0
Transport equipment operatives	334	274	8.8	7.4	8.5	7.0	13.2	11.8
Nonfarm laborers	786	746	13.6	12.9	13.5	13.2	15.0	11.0
Construction laborers	197	229	17.5	19.9	17.5	19.8	(1)	(1)
All other	589	517	12.7	11.2	12.4	11.3	14.8	10.5
Service workers	1,229	1,387	8.6	9.6	8.9	10.7	8.4	8.9
Private household	66	51	5.8	4.8	(1)	(1)	5.3	4.6
All other	1,162	1,336	8.8	10.0	8.8	10.7	8.8	9.5
Farm workers	103	137	3.3	4.3	2.7	3.4	5.4	7.8
No previous work experience	1,310	1,394	--	--	--	--	--	--
16 to 19 years	1,022	1,119	--	--	--	--	--	--
20 to 24 years	190	196	--	--	--	--	--	--
25 years and over	98	79	--	--	--	--	--	--

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

A-12. Unemployed persons by industry and sex

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981
Total, 16 years and over	100.0	100.0	7.8	7.7	7.5	7.2	8.2	8.3
Nonagricultural private wage and salary workers	73.2	69.2	7.8	7.3	7.9	7.1	7.7	7.5
Mining	.8	.7	6.8	5.2	7.0	5.7	5.4	2.4
Construction	8.5	8.9	13.1	14.0	13.8	14.3	5.7	11.3
Manufacturing	25.5	20.0	9.1	7.2	8.3	5.9	11.0	9.8
Durable goods	16.9	11.6	10.1	6.9	9.3	6.2	12.4	9.0
Lumber and wood products	1.3	.8	15.9	9.5	16.6	9.0	11.3	12.6
Furniture and fixtures	.5	.5	7.8	7.3	7.2	5.9	9.2	10.1
Stone, clay, and glass products	.8	.5	9.2	6.4	7.9	6.4	15.0	6.5
Primary metal industries	1.6	1.0	10.0	5.8	9.8	6.6	11.1	7.9
Fabricated metal products	2.3	1.4	11.6	7.5	10.8	7.2	14.2	8.7
Machinery, except electrical equipment	2.1	2.0	5.8	5.4	5.7	4.6	6.3	8.5
Electrical equipment	2.8	1.8	9.6	6.2	7.2	4.4	12.7	8.5
Transportation equipment	4.4	2.3	15.6	8.1	14.3	8.1	21.7	8.0
Automobiles	3.8	1.5	24.2	10.7	22.3	10.3	33.4	12.9
Other transportation equipment	.7	.7	5.2	5.4	4.8	5.7	6.7	4.3
Instruments and related products	.4	.3	5.1	3.6	3.3	2.5	7.7	5.0
Other durable goods industries	.8	1.0	9.6	10.5	6.1	6.3	14.6	17.9
Nondurable goods	8.6	8.4	7.7	7.6	6.3	5.5	9.7	10.5
Food and kindred products	2.0	2.0	8.7	8.9	7.6	6.3	11.2	15.1
Textile mill products	1.0	.8	9.6	3.4	7.9	8.4	11.5	8.4
Apparel and other textile products	1.6	1.6	9.3	9.8	7.6	5.8	9.7	10.9
Paper and allied products	.7	.4	7.8	4.0	5.5	2.6	15.0	8.2
Printing and publishing	1.0	1.2	5.5	6.2	4.7	5.0	6.7	7.8
Chemicals and allied products	.7	.9	4.2	5.5	3.9	4.3	5.1	8.7
Rubber and plastics products	1.1	.8	11.5	9.4	9.1	6.4	15.9	14.8
Other nondurable goods industries	.5	.6	6.6	7.9	5.9	7.4	7.1	9.3
Transportation and public utilities	3.3	3.1	4.8	4.5	5.0	4.5	4.3	4.3
Railroads and railway express	.3	.4	4.2	5.0	4.6	4.9	(1)	(1)
Other transportation	2.4	2.1	7.4	6.4	7.2	6.6	8.2	5.7
Communication and other public utilities	.6	.7	2.1	2.2	2.1	1.7	2.3	3.3
Wholesale and retail trade	18.7	18.9	8.1	8.0	7.3	7.1	9.1	8.9
Finance, insurance, and real estate	2.3	2.3	3.5	3.4	3.5	3.3	3.5	3.5
Service industries	14.0	15.3	6.5	6.8	6.8	7.4	6.3	6.5
Professional services	5.4	6.7	4.4	5.1	3.4	4.9	4.8	5.3
All other service industries	8.6	8.6	9.1	9.2	9.6	9.6	8.7	8.8
Agricultural wage and salary workers	1.6	2.1	7.5	9.5	6.5	8.2	11.1	14.3
All other classes of workers	9.4	11.8	3.1	3.8	2.5	3.2	3.8	4.6
No previous work experience	15.8	16.8	--	--	--	--	--	--

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

A-13. Unemployed persons by reason for unemployment, sex, age, and race

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981
NUMBER OF UNEMPLOYED												
Total unemployed, in thousands	8,291	8,279	3,417	3,298	2,601	2,767	2,273	2,215	6,420	6,271	1,871	2,009
Job losers	3,945	3,734	2,392	2,203	1,181	1,234	372	296	3,126	2,875	819	858
On layoff	1,613	1,139	974	684	520	399	113	56	1,358	949	255	193
Other job losers	2,332	2,595	1,418	1,519	661	835	254	240	1,768	1,926	564	668
Job leavers	864	840	337	347	377	351	153	143	708	707	156	134
Reentrants	2,172	2,311	572	633	871	1,022	729	657	1,660	1,701	512	610
New entrants	1,309	1,394	115	115	172	160	1,022	1,119	926	987	383	407
PERCENT DISTRIBUTION												
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	47.5	45.1	70.0	66.8	45.4	44.6	16.4	13.3	48.6	45.8	43.8	42.7
On layoff	19.4	13.8	28.5	20.7	20.0	14.4	5.2	2.5	21.1	15.1	13.6	9.4
Other job losers	28.1	31.3	41.5	46.1	25.4	30.2	11.2	10.8	27.5	30.7	30.2	33.3
Job leavers	10.4	10.2	9.9	10.5	14.5	12.7	6.6	6.4	11.0	11.3	8.3	6.6
Reentrants	26.2	27.9	16.7	19.2	33.5	35.9	32.1	29.6	25.9	27.1	27.4	30.4
New entrants	15.8	16.8	3.4	3.5	6.6	5.3	44.9	50.5	14.4	15.7	20.5	20.3
UNEMPLOYMENT RATE												
Total unemployment rate	7.8	7.7	6.1	5.9	6.6	6.7	21.3	21.9	6.9	6.6	14.7	15.5
Job loser rate ¹	3.7	3.5	4.4	3.9	3.0	3.0	3.5	3.0	3.4	3.0	6.4	6.7
Job leaver rate ¹ . . . . .	.8	.8	.6	.6	.9	.9	1.4	1.4	.8	.7	1.2	1.0
Reentrant rate ¹	2.0	2.1	1.0	1.1	2.2	2.5	6.7	6.5	1.8	1.8	4.0	4.7
New entrant rate ¹	1.2	1.3	.2	.2	.4	.4	9.5	11.1	1.0	1.0	3.0	3.1

¹ Unemployment rates are calculated as a percent of the civilian labor force.

A-14. Unemployed persons by reason for unemployment, sex, age, and duration of unemployment

(Percent distribution)

Reason, sex, and age	June 1981						
	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	8,279	100.0	49.8	24.3	25.9	13.0	12.9
Job losers	3,734	100.0	36.0	26.0	38.0	18.3	19.7
On layoff	1,139	100.0	45.6	24.7	29.7	14.3	15.4
Other job losers	2,595	100.0	31.8	26.5	41.6	20.0	21.6
Job leavers	840	100.0	48.8	27.3	23.9	11.8	12.1
Reentrants	2,311	100.0	61.1	22.3	16.8	9.6	7.2
New entrants	1,394	100.0	68.3	21.7	10.0	5.2	4.8
Males, 20 years and over	3,298	100.0	39.8	24.6	35.6	16.3	19.3
Job losers	2,203	100.0	33.6	25.8	40.6	18.4	22.2
On layoff	684	100.0	41.9	24.6	33.5	16.8	16.6
Other job losers	1,519	100.0	29.9	26.3	43.8	19.0	24.7
Job leavers	347	100.0	45.5	25.9	28.7	13.4	15.3
Reentrants	633	100.0	53.1	21.5	25.3	12.5	12.8
New entrants	115	100.0	67.5	13.7	18.8	6.7	12.1
Females, 20 years and over	2,767	100.0	46.5	27.0	26.6	14.8	11.8
Job losers	1,234	100.0	36.2	26.1	37.7	20.0	17.7
On layoff	399	100.0	50.0	24.2	25.7	11.3	14.5
Other job losers	835	100.0	29.5	27.0	43.4	24.2	19.2
Job leavers	351	100.0	46.6	33.6	22.8	10.9	11.8
Reentrants	1,022	100.0	57.9	25.5	16.6	11.1	5.6
New entrants	160	100.0	52.6	34.8	12.6	6.6	6.0
Both sexes, 16 to 19 years	2,215	100.0	68.8	20.5	10.7	5.9	4.8
Job losers	296	100.0	53.4	26.8	19.8	10.8	9.0
On layoff	56	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers	240	100.0	52.3	26.2	21.5	11.9	9.6
Job leavers	143	100.0	62.2	22.4	15.3	10.1	5.3
Reentrants	657	100.0	73.9	17.1	8.9	4.5	4.4
New entrants	1,119	100.0	70.7	20.6	8.7	4.9	3.8

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

HOUSEHOLD DATA

A-15. Unemployed jobseekers by sex, age, race, and jobsearch methods used

Sex, age, and race	June 1981								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	8,279	6,945	24.8	5.9	75.8	30.0	14.0	5.5	1.56
16 to 19 years	2,215	2,096	17.3	2.7	81.1	23.6	13.1	4.8	1.43
20 to 24 years	2,004	1,736	28.7	7.4	76.5	33.2	13.3	4.3	1.63
25 to 34 years	1,985	1,533	30.0	7.8	72.8	33.6	15.1	5.6	1.65
35 to 44 years	942	736	28.1	6.4	73.5	32.3	13.5	5.8	1.60
45 to 54 years	670	515	21.6	8.7	70.5	32.2	15.5	7.8	1.56
55 to 64 years	368	253	26.1	5.5	66.4	25.7	17.0	11.5	1.52
65 years and over	95	77	19.5	1.3	63.6	35.1	16.9	10.4	1.47
Males, 16 years and over	4,463	3,630	27.4	5.8	76.5	28.9	16.4	6.6	1.62
16 to 19 years	1,165	1,099	17.8	2.5	81.3	24.7	15.7	4.4	1.47
20 to 24 years	1,089	923	34.8	6.4	77.5	33.2	16.3	4.0	1.72
25 to 34 years	1,092	801	33.7	9.2	72.7	32.8	16.7	7.6	1.73
35 to 44 years	461	332	27.7	6.0	72.6	25.0	14.5	11.1	1.57
45 to 54 years	362	269	23.0	8.9	75.8	26.8	19.3	11.5	1.65
55 to 64 years	242	164	27.4	3.7	67.1	25.0	18.3	14.0	1.55
65 years and over	52	44	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	3,817	3,315	21.9	6.1	75.1	31.1	11.4	4.2	1.50
16 to 19 years	1,050	997	16.8	2.8	80.8	22.4	10.1	5.3	1.38
20 to 24 years	916	813	21.9	8.5	75.4	33.1	10.0	4.6	1.53
25 to 34 years	893	732	25.8	6.1	73.0	34.4	13.4	3.4	1.56
35 to 44 years	480	404	28.5	6.9	74.5	38.4	12.6	1.5	1.62
45 to 54 years	308	246	19.5	8.5	64.6	38.2	11.4	4.1	1.46
55 to 64 years	127	89	23.6	9.0	65.2	28.1	14.6	6.7	1.47
65 years and over	43	34	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over	6,271	5,159	23.2	5.9	76.8	32.2	14.5	4.9	1.58
Males	3,451	2,746	25.7	5.8	77.5	31.3	16.7	6.2	1.63
Females	2,820	2,413	20.3	6.1	76.1	33.2	12.1	3.6	1.51
Black and other, 16 years and over	2,009	1,786	29.3	6.0	72.9	23.6	12.5	7.1	1.51
Males	1,011	884	32.2	6.0	73.4	21.6	15.4	8.1	1.57
Females	997	902	26.4	6.0	72.4	25.6	9.5	6.0	1.46

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

waiting to begin a new wage and salary job within 30 days are not actually seeking jobs. It should also be noted that the percent using each method will always total more than 100 because many jobseekers use more than one method.

NOTE: The jobseekers total is less than the total unemployed because persons on layoff or

A-16. Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used

Sex and reason	June 1981								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	8,279	6,945	24.8	5.9	75.8	30.0	14.0	5.5	1.56
Job losers	3,734	2,606	32.2	7.3	73.6	32.0	15.8	5.3	1.67
Job leavers	840	822	23.6	6.8	77.7	35.4	12.3	2.9	1.59
Reentrants	2,311	2,164	23.1	5.6	74.8	28.9	12.5	5.7	1.51
New entrants	1,394	1,353	13.7	3.3	80.7	24.5	14.0	5.1	1.41
Males, 16 years and over	4,463	3,630	27.4	5.8	76.5	28.9	16.4	6.6	1.62
Job losers	2,400	1,673	34.4	6.5	72.7	29.8	17.6	7.7	1.69
Job leavers	418	405	22.0	6.2	75.6	37.5	13.6	4.2	1.59
Reentrants	959	893	26.4	6.5	77.5	27.7	14.1	8.3	1.60
New entrants	686	659	14.0	3.0	85.3	23.2	17.9	3.2	1.47
Females, 16 years and over	3,817	3,315	21.9	6.1	75.1	31.1	11.4	4.2	1.50
Job losers	1,334	933	28.2	8.6	75.1	35.9	12.6	3.8	1.64
Job leavers	422	418	25.1	7.7	79.7	33.0	11.0	1.7	1.58
Reentrants	1,352	1,271	20.8	5.0	72.7	29.8	11.3	3.9	1.44
New entrants	708	694	13.5	3.6	76.4	25.8	10.2	7.1	1.37

NOTE: See note, table A-15.

A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981
Total, 16 years and over	8,291	8,279	100.0	100.0	7,130	7,044	100.0	100.0
Less than 5 weeks	4,249	4,121	51.3	49.8	3,425	3,246	48.0	46.1
5 to 14 weeks	2,387	2,011	28.8	24.3	2,173	1,777	30.4	25.2
5 to 10 weeks	1,773	1,516	21.4	18.3	1,633	1,342	22.5	19.1
11 to 14 weeks	613	495	7.4	6.0	567	435	8.0	6.2
15 weeks and over	1,655	2,148	20.0	25.9	1,535	2,021	21.5	28.7
15 to 26 weeks	926	1,077	11.2	13.0	863	1,008	12.1	14.3
27 weeks and over	729	1,070	8.8	12.9	674	1,013	9.5	14.4
27 to 51 weeks	432	538	5.2	6.5	404	508	5.7	7.2
52 weeks and over	297	532	3.6	6.4	273	505	3.8	7.2
Average (mean) duration, in weeks	10.4	12.7	--	--	11.0	13.8	--	--
Median duration, in weeks	4.9	5.1	--	--	5.4	6.0	--	--

A-18. Unemployed persons by sex, age, race, marital status, and duration of unemployment

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			June 1980	June 1981	June 1980	June 1981
Total, 16 years and over	8,279	4,121	2,011	1,077	1,070	12.7	5.1	51.3	49.8	20.0	25.9
16 to 21 years	3,116	1,983	713	214	205	8.2	3.9	67.2	63.6	9.6	13.5
16 to 19 years	2,215	1,524	455	130	106	6.9	3.6	71.0	68.8	8.0	10.7
20 to 24 years	2,034	938	571	251	244	12.5	5.7	51.6	46.3	16.8	24.7
25 to 34 years	1,985	841	488	345	310	14.9	7.3	41.8	42.4	26.1	33.0
35 to 44 years	942	377	232	153	180	16.8	8.0	37.8	40.1	27.0	35.3
45 to 54 years	670	268	151	119	133	17.4	8.6	40.0	39.9	31.4	37.6
55 to 64 years	368	128	99	64	78	17.4	9.9	35.3	34.7	35.7	38.5
65 years and over	95	45	15	14	20	18.0	5.7	39.9	47.6	34.8	36.1
Males, 16 years and over	4,463	2,080	1,063	613	706	14.3	5.9	47.0	46.6	23.2	29.6
16 to 21 years	1,660	1,014	394	115	136	9.0	4.1	64.5	61.1	11.7	15.2
16 to 19 years	1,165	768	253	76	68	7.3	3.8	69.0	65.9	9.9	12.4
20 to 24 years	1,089	472	301	145	171	14.5	6.3	46.9	43.3	20.2	29.0
25 to 34 years	1,092	425	273	185	207	16.9	8.6	36.6	39.0	30.5	36.0
35 to 44 years	461	182	84	82	114	19.8	9.5	32.0	39.3	29.8	42.6
45 to 54 years	362	125	81	78	78	18.1	10.4	34.3	34.7	36.9	43.0
55 to 64 years	242	82	64	33	57	18.5	10.3	36.5	34.1	36.2	39.3
65 years and over	52	26	7	9	11	19.2	5.4	(1)	(1)	(1)	(1)
Females, 16 years and over	3,817	2,041	948	464	364	10.9	4.7	56.6	53.5	15.8	21.7
16 to 21 years	1,456	969	319	98	73	7.3	3.8	70.4	66.5	6.9	11.5
16 to 19 years	1,050	756	202	55	39	6.4	3.5	73.4	72.0	5.9	8.8
20 to 24 years	916	466	270	107	72	10.2	4.9	57.9	50.9	12.3	19.5
25 to 34 years	893	416	215	160	102	12.3	5.9	48.8	46.6	23.0	29.3
35 to 44 years	480	196	148	70	66	14.0	7.1	44.1	40.8	23.9	28.4
45 to 54 years	308	142	70	42	55	16.5	6.0	46.2	46.1	25.5	31.3
55 to 64 years	127	46	34	26	21	15.2	9.3	33.1	36.0	34.7	37.0
65 years and over	43	20	8	5	10	16.5	6.0	(1)	(1)	(1)	(1)
White, 16 years and over	6,271	3,161	1,521	815	774	12.3	5.0	51.6	50.4	19.6	25.3
Males	3,451	1,618	817	497	519	13.9	5.8	47.5	46.9	22.7	29.4
Females	2,820	1,543	704	318	255	10.4	4.6	57.0	54.7	15.5	20.3
Black and other, 16 years and over	2,009	961	490	262	296	14.1	5.6	50.1	47.8	21.1	27.8
Males	1,011	462	246	116	187	15.9	6.2	45.2	45.7	25.1	30.0
Females	997	498	244	147	109	12.2	5.0	55.4	50.0	16.8	25.5
Males, 16 years and over:											
Married, spouse present	1,564	557	379	285	341	18.3	9.7	36.2	35.6	29.7	40.1
Widowed, divorced, or separated	419	138	91	96	94	19.0	11.7	31.4	33.0	32.6	45.4
Single (never married)	2,480	1,385	593	231	271	11.1	4.5	57.1	55.8	17.2	20.3
Females, 16 years and over:											
Married, spouse present	1,357	662	341	201	154	12.4	5.3	51.9	48.7	18.3	26.1
Widowed, divorced, or separated	694	294	195	107	98	13.9	6.7	40.5	42.4	25.9	29.5
Single (never married)	1,766	1,085	411	157	112	8.5	4.1	66.5	61.5	10.0	15.2

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

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A-19. Unemployed persons by occupation, industry, and duration of unemployment

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			June 1980	June 1991	June 1980	June 1981
	June 1981										
OCCUPATION											
White-collar workers	2,165	1,008	551	359	247	12.6	6.3	50.8	46.5	23.0	28.3
Professional and managerial	806	345	230	125	105	13.8	6.5	47.5	42.8	22.4	28.4
Sales workers	295	160	68	42	25	10.3	4.6	53.2	54.1	19.0	22.7
Clerical workers	1,065	503	252	193	117	12.4	6.0	52.4	47.2	18.7	29.1
Blue-collar workers	3,197	1,305	799	469	625	16.3	7.5	41.8	40.8	25.5	34.2
Craft and kindred workers	882	328	240	157	157	15.9	8.5	42.7	37.2	27.4	35.5
Operatives, except transport	1,295	520	318	183	275	15.8	7.6	38.2	40.1	26.9	35.3
Transport equipment operatives	274	106	72	34	62	16.9	8.0	42.6	38.7	22.3	35.2
Nonfarm laborers	746	351	170	94	131	15.7	6.3	47.7	47.0	22.0	30.2
Service workers	1,387	757	341	170	118	10.7	4.6	55.6	54.6	17.9	20.8
INDUSTRY¹											
Agriculture	175	122	21	10	23	10.5	3.6	54.6	69.1	13.0	19.1
Construction	756	299	186	155	115	14.9	8.4	44.1	39.6	28.1	35.8
Manufacturing	1,669	627	416	249	377	18.3	8.8	37.0	37.6	28.4	37.5
Durable goods	967	364	220	154	229	18.8	9.3	36.5	37.6	27.9	39.6
Nondurable goods	702	263	196	95	148	17.7	8.2	38.1	37.5	29.4	34.5
Transportation and public utilities	313	128	101	37	47	13.7	6.7	49.0	40.9	19.8	26.3
Wholesale and retail trade	1,573	782	405	213	174	11.9	5.1	51.1	49.7	16.9	24.5
Finance and service industries	1,939	967	488	279	205	11.8	5.1	55.0	49.9	13.9	25.0
Public administration	259	134	53	37	35	12.9	4.8	54.2	51.8	27.2	27.7
No previous work experience	1,394	953	302	73	57	7.1	3.7	73.2	68.4	7.1	10.0

¹ Includes wage and salary workers only.

A-20. Employed persons by industry, age, and sex

(In thousands)

Industry and age	Total		Males		Females	
	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981
All industries	97,776	99,341	56,803	57,230	40,973	42,111
16 to 19 years	8,536	7,915	4,553	4,263	3,887	3,652
16 to 17 years	3,538	3,113	1,976	1,713	1,562	1,401
18 to 19 years	4,999	4,802	2,577	2,550	2,325	2,251
20 to 24 years	13,866	13,992	7,536	7,547	6,360	6,445
25 to 54 years	61,124	63,167	35,887	36,767	25,237	26,399
25 to 34 years	25,790	27,146	15,154	15,789	10,637	11,358
35 to 44 years	19,156	19,736	11,107	11,404	8,049	8,332
45 to 54 years	16,177	16,285	9,627	9,575	6,551	6,710
55 to 64 years	11,338	11,331	6,949	6,854	4,389	4,477
55 to 59 years	6,957	7,013	4,263	4,203	2,697	2,810
60 to 64 years	4,381	4,319	2,589	2,651	1,692	1,668
65 years and over	2,912	2,935	1,811	1,799	1,100	1,136
Nonagricultural industries	94,039	95,578	53,883	54,263	40,156	41,315
16 to 19 years	7,959	7,339	4,200	3,781	3,759	3,558
16 to 17 years	3,203	2,822	1,712	1,469	1,491	1,353
18 to 19 years	4,756	4,516	2,489	2,312	2,267	2,205
20 to 24 years	13,392	13,492	7,126	7,138	6,267	6,354
25 to 54 years	59,295	61,337	34,536	35,394	24,758	25,943
25 to 34 years	25,101	26,425	14,622	15,228	10,479	11,197
35 to 44 years	18,548	19,150	10,681	10,988	7,867	8,162
45 to 54 years	15,646	15,762	9,233	9,179	6,413	6,584
55 to 64 years	10,802	10,816	6,500	6,447	4,302	4,369
55 to 59 years	6,694	6,719	4,052	3,980	2,642	2,739
60 to 64 years	4,109	4,097	2,443	2,467	1,560	1,630
65 years and over	2,590	2,595	1,520	1,503	1,070	1,092
Agriculture	3,737	3,763	2,920	2,968	817	796
16 to 19 years	577	577	443	482	128	94
16 to 17 years	335	291	254	244	70	48
18 to 19 years	243	285	195	239	57	47
20 to 24 years	474	500	380	409	94	92
25 to 54 years	1,828	1,831	1,351	1,373	478	458
25 to 34 years	689	721	531	561	158	161
35 to 44 years	608	587	426	416	182	170
45 to 54 years	531	522	394	396	138	126
55 to 64 years	536	516	449	408	87	108
55 to 59 years	264	293	208	223	55	70
60 to 64 years	272	222	243	184	32	38
65 years and over	322	341	291	296	31	44

A-21. Employed persons by occupation, sex, and age

[In thousands]

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981
	TOTAL	97,776	99,341	52,153	52,967	37,087	38,459	4,650	4,263	3,887	3,652
White-collar workers	50,307	51,419	22,977	23,259	24,708	25,518	713	677	1,939	1,954
Professional and technical	15,241	15,607	8,497	8,657	6,537	6,754	114	86	93	111
Health workers	2,928	2,980	930	900	1,977	2,054	7	2	15	22
Teachers, except college	2,789	2,799	798	854	1,971	1,933	10	2	10	11
Other professional and technical	9,524	9,828	6,769	6,903	2,589	2,767	97	82	68	73
Managers and administrators, except farm	10,878	11,152	8,055	8,045	2,689	2,993	71	52	63	62
Salaried workers	8,980	9,237	6,598	6,613	2,253	2,512	69	51	59	62
Self-employed workers in retail trade	824	832	550	536	272	293	--	3	2	1
Self-employed workers, except retail trade	1,074	1,083	907	895	164	189	2	--	1	--
Sales workers	6,023	6,408	3,069	3,289	2,269	2,473	223	233	462	412
Retail trade	3,099	3,256	981	1,070	1,526	1,655	173	167	420	365
Other industries	2,925	3,152	2,088	2,220	744	818	51	65	42	48
Clerical workers	18,165	18,251	3,357	3,279	13,213	13,298	305	306	1,290	1,369
Stenographers, typists, and secretaries	5,017	4,988	65	73	4,631	4,550	7	10	314	355
Other clerical workers	13,148	13,263	3,292	3,206	8,582	8,748	298	296	976	1,013
Blue-collar workers	31,333	31,791	23,178	23,681	5,185	5,534	2,554	2,246	416	330
Craft and kindred workers	12,621	12,744	11,289	11,482	732	786	576	442	54	34
Carpenters	1,216	1,161	1,116	1,074	18	19	75	63	8	5
Construction craft workers, except carpenters	2,735	2,596	2,510	2,420	55	43	161	126	9	7
Mechanics and repairers	3,299	3,435	3,058	3,217	57	75	184	143	2	--
Metal craft workers	1,344	1,308	1,245	1,230	52	51	47	27	--	--
Blue-collar worker supervisors, not elsewhere classified	1,669	1,820	1,499	1,606	155	205	14	6	1	3
All other	2,357	2,424	1,861	1,937	365	392	96	77	35	19
Operatives, except transport	10,273	10,571	5,605	5,828	3,850	3,985	560	575	257	181
Durable goods manufacturing	4,455	4,717	2,831	2,972	1,418	1,528	149	163	56	55
Nondurable goods manufacturing	3,364	3,329	1,280	1,307	1,829	1,824	116	114	138	84
Other industries	2,454	2,525	1,494	1,549	602	634	295	300	63	42
Transport equipment operatives	3,459	3,452	3,050	3,032	208	267	191	142	9	12
Drivers, motor vehicles	2,945	2,904	2,573	2,534	197	241	167	118	7	12
All other	514	548	477	498	11	26	24	24	2	--
Nonfarm laborers	4,981	5,024	3,233	3,338	425	495	1,227	1,087	96	103
Construction	931	923	698	746	16	16	212	159	5	3
Manufacturing	961	1,084	723	822	117	146	111	111	10	5
Other industries	3,089	3,017	1,813	1,771	291	334	903	818	81	95
Service workers	13,103	13,082	3,960	3,942	6,659	6,866	1,022	968	1,463	1,306
Private household workers	1,084	1,004	20	27	837	759	6	11	221	208
Service workers, except private household	12,020	12,078	3,940	3,915	5,822	6,107	1,016	957	1,242	1,098
Food service workers	4,552	4,579	891	926	2,165	2,292	660	625	835	735
Protective service workers	1,420	1,418	1,254	1,255	129	133	24	24	13	5
All other	6,048	6,081	1,795	1,734	3,527	3,682	332	309	394	358
Farm workers	3,032	3,050	2,038	2,075	535	541	360	371	100	63
Farmers and farm managers	1,494	1,519	1,301	1,301	169	191	24	24	--	4
Farm laborers and supervisors	1,538	1,530	737	774	365	350	336	348	99	59
Paid workers	1,168	1,186	690	727	168	162	249	263	62	35
Unpaid family workers	370	345	48	47	197	188	87	85	38	24

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A-22. Employed persons by occupation, race, and sex

[Percent distribution]

Occupation and race	Total		Males		Females	
	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981
TOTAL						
Total, 16 years and over (thousands)	97,776	99,341	56,803	57,230	40,973	42,111
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	51.5	51.8	41.7	41.8	65.0	65.2
Professional and technical	15.6	15.7	15.2	15.3	16.2	16.3
Managers and administrators, except farm	11.1	11.2	14.3	14.1	6.7	7.3
Sales workers	6.2	6.5	5.8	6.2	6.7	6.9
Clerical workers	18.6	18.4	5.4	6.3	35.4	34.8
Blue-collar workers	32.0	32.0	45.3	45.3	13.7	13.9
Craft and kindred workers	12.9	12.8	20.9	20.8	1.3	1.9
Operatives, except transport	10.5	10.6	10.9	11.2	10.0	9.9
Transport equipment operatives	3.5	3.5	5.7	5.5	.5	.7
Nonfarm laborers	5.1	5.1	7.9	7.7	1.3	1.4
Service workers	13.4	13.2	8.8	8.6	19.8	19.4
Private household workers	1.1	1.0	(1)	.1	2.6	2.3
Other service workers	12.3	12.2	9.7	8.5	17.2	17.1
Farm workers	3.1	3.1	4.2	4.3	1.5	1.4
Farmers and farm managers	1.5	1.5	2.3	2.3	.4	.5
Farm laborers and supervisors	1.6	1.5	1.9	2.0	1.1	1.0
White						
Total, 16 years and over (thousands)	86,920	88,376	51,111	51,550	35,809	36,826
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	53.0	53.2	43.1	43.2	67.1	67.2
Professional and technical	15.9	16.0	15.7	15.7	16.3	16.4
Managers and administrators, except farm	11.9	12.0	15.2	15.0	7.2	7.8
Sales workers	6.6	6.9	6.1	6.5	7.2	7.4
Clerical workers	18.6	18.3	6.2	6.0	36.3	35.6
Blue-collar workers	31.5	31.6	44.5	44.6	13.0	13.4
Craft and kindred workers	13.4	13.3	21.4	21.3	1.9	2.0
Operatives, except transport	10.0	10.1	10.4	10.8	9.4	9.3
Transport equipment operatives	3.4	3.3	5.3	5.2	.5	.7
Nonfarm laborers	4.8	4.9	7.4	7.3	1.2	1.4
Service workers	12.2	12.0	9.0	7.7	18.2	17.9
Private household workers . . . . .	.8	.7	(1)	.1	1.9	1.7
Other service workers	11.4	11.2	7.9	7.7	16.3	16.2
Farm workers	3.3	3.2	4.4	4.5	1.7	1.5
Farmers and farm managers	1.7	1.7	2.5	2.5	.5	.5
Farm laborers and supervisors	1.6	1.6	1.8	1.9	1.2	1.0
Black and other						
Total, 16 years and over (thousands)	10,856	10,965	5,692	5,680	5,164	5,285
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	39.0	40.2	28.9	29.4	50.1	51.8
Professional and technical	12.7	13.6	10.6	11.8	15.0	15.5
Managers and administrators, except farm	5.2	5.2	5.7	6.7	3.5	3.5
Sales workers	2.8	2.8	2.9	2.6	2.7	3.0
Clerical workers	18.3	18.6	8.7	8.3	28.9	29.7
Blue-collar workers	36.1	35.3	52.3	51.5	18.2	17.9
Craft and kindred workers	9.2	9.4	16.0	16.5	1.7	1.6
Operatives, except transport	14.8	14.7	15.0	15.2	14.5	14.2
Transport equipment operatives	5.0	4.7	9.2	8.4	.4	.7
Nonfarm laborers	7.1	6.6	12.2	11.4	1.5	1.4
Service workers	23.1	22.8	16.0	16.5	31.0	29.7
Private household workers	3.4	3.1	.1	.2	7.1	6.3
Other service workers	19.7	19.7	15.9	16.3	23.9	23.4
Farm workers	1.9	1.7	2.9	2.7	.8	.7
Farmers and farm managers . . . . .	.3	.3	.5	.5	.1	--
Farm laborers and supervisors	1.6	1.5	2.4	2.2	.7	.7

¹ Less than 0.05 percent.

A-23. Employed persons by age, sex, and class of worker

[In thousands]

Age and sex	June 1981								
	Nonegricultural industries					Agriculture			
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	88,190	1,207	15,027	71,956	6,998	389	1,666	1,742	355
16 to 19 years	7,219	343	520	6,355	89	30	394	72	110
16 to 17 years	2,758	245	199	2,314	43	22	188	29	74
18 to 19 years	4,461	98	321	4,042	47	9	206	43	37
20 to 24 years	13,132	115	1,222	11,794	343	17	360	103	37
25 to 34 years	24,663	156	4,242	20,266	1,694	68	393	289	40
35 to 44 years	17,295	86	3,555	13,655	1,761	94	211	327	48
45 to 54 years	14,195	139	3,101	10,956	1,477	91	139	328	55
55 to 64 years	9,640	223	2,041	7,377	1,116	59	116	359	41
65 to 69 years	6,048	122	1,300	4,626	637	34	61	202	30
70 to 74 years	3,592	101	741	2,750	479	25	55	157	11
75 years and over	2,047	145	347	1,555	518	30	53	263	24
Males, 16 years and over	49,359	242	7,438	41,679	4,851	53	1,318	1,517	133
16 to 19 years	3,694	125	250	3,319	65	21	330	66	86
16 to 17 years	1,424	90	100	1,235	27	17	157	28	59
18 to 19 years	2,270	35	151	2,085	38	4	173	38	28
20 to 24 years	6,897	37	499	6,361	236	5	287	97	25
25 to 34 years	14,055	25	2,072	11,958	1,164	9	309	251	1
35 to 44 years	9,780	9	1,754	8,017	1,199	8	147	264	5
45 to 54 years	8,154	7	1,604	6,543	1,026	--	108	282	6
55 to 64 years	5,637	17	1,077	4,544	807	2	91	313	4
65 to 69 years	3,510	14	669	2,827	468	2	48	176	--
70 to 74 years	2,127	3	407	1,717	339	--	43	138	4
75 years and over	1,141	22	183	936	354	8	46	245	5
Females, 16 years and over	38,831	965	7,588	30,278	2,148	336	348	225	222
16 to 19 years	3,524	219	269	3,036	24	9	64	6	24
16 to 17 years	1,333	155	99	1,079	15	5	31	2	15
18 to 19 years	2,191	63	170	1,957	9	5	33	5	9
20 to 24 years	6,235	78	724	5,433	107	12	73	7	12
25 to 34 years	10,608	131	2,170	8,307	531	59	84	38	38
35 to 44 years	7,514	76	1,801	5,637	562	86	64	63	43
45 to 54 years	6,041	132	1,497	4,412	451	92	31	46	49
55 to 64 years	4,003	206	964	2,833	309	57	25	46	37
65 to 69 years	2,537	108	630	1,799	170	32	13	26	30
70 to 74 years	1,465	98	334	1,034	140	25	12	19	7
75 years and over	907	123	164	619	164	22	7	19	19

A-24. Employed persons by industry and occupation

[In thousands]

Industry	June 1991											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Agriculture	3,763	76	37	5	76	43	8	34	417	--	11	3,050
Mining	1,090	167	102	4	115	246	355	64	23	--	15	--
Construction	6,237	242	775	48	498	3,311	229	175	923	--	36	--
Manufacturing	21,938	2,451	1,667	551	2,664	4,297	8,046	757	1,084	--	422	--
Durable goods	13,267	1,723	935	187	1,605	2,888	4,717	362	619	--	231	--
Non-durable goods	8,671	728	732	364	1,059	1,409	3,329	395	464	--	191	--
Transportation and public utilities	6,539	595	692	86	1,547	1,418	185	1,414	422	--	181	--
Wholesale and retail trade	20,164	438	3,762	4,228	3,638	1,435	908	739	1,181	--	3,835	--
Wholesale trade	3,964	175	773	972	795	336	208	389	269	--	47	--
Retail trade	16,200	263	2,989	3,256	2,843	1,099	703	350	912	--	3,788	--
Finance, insurance, and real estate	6,011	363	1,135	1,257	2,811	97	10	12	106	--	220	--
Services	28,438	10,212	2,288	226	5,138	1,646	770	203	687	1,004	6,263	--
Private households	1,276	19	1	--	7	10	3	1	201	1,004	29	--
Other service industries	27,162	10,193	2,287	226	5,131	1,636	767	202	486	--	6,234	--
Public administration	5,161	1,063	694	4	1,764	247	63	53	180	--	1,096	--

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A-25. Employed persons with a job but not at work by reason, sex, and pay status

(In thousands)

Reason not working and sex	All Industries		Nonagricultural industries					
			Total		Wage and salary workers ¹			
					Paid absences ²		Unpaid absences ²	
	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981
Total, 16 years and over	6,769	6,751	6,670	6,627	3,591	3,497	2,549	2,559
Vacation	4,559	4,307	4,523	4,259	2,947	2,724	1,337	1,292
Illness	1,240	1,284	1,217	1,257	449	532	675	627
Bad weather	40	104	31	65	--	--	--	--
Industrial dispute	79	97	79	97	--	--	--	--
All other reasons	851	959	820	939	195	241	536	640
Males, 16 years and over	3,259	3,192	3,180	3,100	1,933	1,831	965	950
Vacation	2,024	1,882	1,995	1,851	1,517	1,384	365	333
Illness	718	736	697	722	291	328	358	333
All other reasons ³	517	575	488	526	124	120	243	285
Females, 16 years and over	3,510	3,560	3,490	3,527	1,659	1,665	1,586	1,610
Vacation	2,536	2,425	2,527	2,418	1,430	1,340	974	959
Illness	522	548	520	535	158	204	318	294
All other reasons ³	453	588	442	575	71	121	294	356

¹Excludes private household workers.

³Includes bad weather and industrial dispute, not shown separately.

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

NOTE: Estimates for "all other reasons" by pay status may be biased because of high response variance; data should be used with caution.

A-26. Persons at work by hours of work and industry

Hours of work	June 1981					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total, 16 years and over	92,590	88,951	3,639	100.0	100.0	100.0
1-34 hours	21,552	20,541	1,014	23.3	23.1	27.9
1-4 hours	771	705	66	.8	.8	1.8
5-14 hours	3,577	3,351	227	3.9	3.8	6.2
15-29 hours	10,940	10,413	528	11.8	11.7	14.5
30-34 hours	6,264	6,072	193	6.8	6.8	5.3
35 hours and over	71,037	68,410	2,626	76.7	76.9	72.1
35-39 hours	6,770	6,620	150	7.3	7.4	4.1
40 hours	41,104	40,479	625	44.4	45.5	17.2
41 hours and over	23,163	21,311	1,851	25.0	24.0	50.9
41 to 48 hours	9,108	8,843	264	9.8	9.9	7.3
49 to 59 hours	7,732	7,284	448	8.4	8.2	12.3
60 hours and over	6,323	5,184	1,139	6.8	5.8	31.3
Average hours, total at work	38.9	38.5	45.9	--	--	--
Average hours, workers on full-time schedules	42.9	42.5	54.9	--	--	--

A-27. Persons at work 1 to 34 hours by reason for working less than 35 hours and usual status

[Numbers in thousands]

Reason for working less than 35 hours	June 1981					
	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	21,552	6,824	14,729	20,541	6,531	14,039
Economic reasons	4,947	1,757	3,190	4,668	1,651	3,017
Slack work	2,243	1,291	952	2,082	1,199	883
Material shortages or repairs to plant and equipment	78	73	--	74	74	--
New job started during week	291	291	--	285	285	--
Job terminated during week	96	95	--	93	93	--
Could find only part-time work	2,238	--	2,238	2,134	--	2,134
Other reasons	16,605	5,067	11,533	15,872	4,850	11,022
Does not want, or unavailable for, full-time work	9,376	--	9,376	8,973	--	8,973
Vacation	1,468	1,468	--	1,442	1,442	--
Illness	1,463	1,319	144	1,418	1,297	121
Bad weather	534	534	--	404	404	--
Industrial dispute	87	87	--	87	87	--
Legal or religious holiday	93	93	--	93	93	--
Full time for this job	1,549	--	1,549	1,495	--	1,495
All other reasons	2,037	1,567	470	1,961	1,527	434
Average hours:						
Economic reasons	21.4	24.0	23.3	21.6	24.1	20.3
Other reasons	21.5	25.3	19.6	21.5	26.0	19.6
Worked 30 to 34 hours:						
Economic reasons	1,431	740	691	1,384	737	677
Other reasons	4,833	2,562	2,271	4,688	2,487	2,201

A-28. Nonagricultural workers by industry and full- or part-time status

[Numbers in thousands]

Industry	June 1981								
	Full- or part-time status						Average hours, total at work	Average hours, workers on full-time schedules	
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules					
			Total	40 hours or less	41 to 48 hours	49 hours or more			
Total, 16 years and over¹	88,951	4,668	11,022	73,261	51,950	8,843	12,468	38.5	42.5
Wage and salary workers	82,065	4,177	9,785	68,103	49,596	8,316	10,191	38.4	42.0
Construction	4,821	334	206	4,281	3,175	431	675	39.2	41.5
Manufacturing	20,445	646	572	19,227	13,975	2,825	2,427	40.7	41.9
Durable goods	12,395	258	252	11,885	8,626	1,751	1,508	41.2	41.9
Nondurable goods	8,050	389	320	7,341	5,349	1,073	919	40.1	41.8
Transportation and public utilities	5,695	157	290	5,248	3,794	631	823	40.9	42.6
Wholesale and retail trade	17,226	1,499	3,738	11,989	7,797	1,882	2,310	36.4	43.0
Finance, insurance, and real estate	5,257	146	488	4,623	3,574	461	588	38.7	41.1
Service industries	22,809	1,266	4,243	17,300	13,150	1,570	2,580	36.2	41.6
Private households	1,137	244	523	370	265	26	79	23.3	43.7
All other industries	21,672	1,022	3,720	16,930	12,885	1,544	2,501	36.9	41.6
Public administration	4,853	108	237	4,508	3,585	402	521	39.9	41.5
Self-employed workers	6,497	472	1,096	4,929	2,223	510	2,199	41.0	48.4
Unpaid family workers	389	20	142	227	132	17	78	35.8	45.5

¹ Includes mining, not shown separately.

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A-29. Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status

(Numbers in thousands)

Sex, age, race, and marital status	June 1981							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	88,951	4,668	11,022	73,261	51,950	21,311	38.5	42.5
16 to 21 years	12,054	1,627	3,162	7,265	5,673	1,592	32.4	41.0
16 to 19 years	7,016	1,191	2,530	3,295	2,599	696	29.0	40.7
16 to 17 years	2,693	515	1,470	738	569	139	23.1	39.8
18 to 19 years	4,323	676	1,060	2,587	2,030	557	32.8	40.9
20 years and over	81,934	3,477	8,492	69,965	49,349	20,616	39.4	42.6
20 to 24 years	12,826	904	1,298	10,624	8,066	2,558	38.1	41.5
25 years and over	69,108	2,573	7,194	59,341	41,284	18,057	39.6	42.8
25 to 44 years	42,397	1,646	3,689	37,062	25,423	11,639	40.2	42.9
45 to 64 years	24,345	816	2,375	21,154	15,037	6,117	39.7	42.6
65 years and over	2,365	111	1,131	1,123	821	302	23.9	42.1
Males, 16 years and over	51,163	2,158	3,083	45,922	29,554	16,368	41.3	43.7
16 to 21 years	6,236	782	1,401	4,053	2,959	1,094	33.9	41.9
16 to 19 years	3,621	571	1,177	1,873	1,393	480	30.4	41.5
16 to 17 years	1,405	276	707	422	326	96	24.0	40.1
18 to 19 years	2,215	295	470	1,450	1,064	386	34.4	41.8
20 years and over	47,542	1,586	1,906	44,050	29,162	15,888	42.2	43.8
20 to 24 years	6,845	449	444	5,952	4,138	1,814	39.9	42.7
25 years and over	40,697	1,137	1,463	38,397	24,024	14,076	42.6	44.0
25 to 44 years	24,799	754	482	23,563	14,535	9,028	43.2	44.2
45 to 64 years	14,522	332	379	13,811	8,988	4,823	42.6	43.7
65 years and over	1,376	52	602	722	499	223	30.7	42.8
Females, 16 years and over	37,788	2,510	7,938	27,340	22,397	4,943	34.8	40.3
16 to 21 years	5,818	847	1,761	3,210	2,711	499	30.7	39.8
16 to 19 years	3,396	620	1,353	1,423	1,208	215	27.6	39.7
16 to 17 years	1,288	239	762	287	244	43	22.1	39.3
18 to 19 years	2,108	381	590	1,137	966	171	31.0	39.8
20 years and over	34,392	1,890	6,586	25,916	21,188	4,728	35.5	40.4
20 to 24 years	5,982	455	854	4,673	3,928	745	36.0	40.0
25 years and over	28,410	1,437	5,732	21,241	17,257	3,984	35.4	40.4
25 to 44 years	17,598	893	3,206	13,499	10,889	2,610	35.8	40.4
45 to 64 years	9,823	484	1,996	7,343	6,049	1,294	35.4	40.5
65 years and over	989	60	529	400	319	81	26.3	40.9
RACE								
White	78,974	3,895	10,083	64,996	45,170	19,826	38.7	42.7
Males	45,985	1,817	2,821	41,347	25,992	15,355	41.6	44.0
Females	32,988	2,077	7,262	23,649	19,177	4,472	34.7	40.4
Black and other	9,977	773	939	8,265	6,781	1,484	37.3	40.8
Males	5,178	340	263	4,575	3,562	1,013	39.1	41.6
Females	4,799	433	676	3,690	3,218	472	35.5	39.8
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	34,199	856	1,077	32,266	20,042	12,224	42.8	44.1
Widowed, divorced, or separated	4,492	189	200	4,123	2,679	1,424	41.9	43.9
Single (never married)	12,472	1,113	1,806	9,553	6,834	2,719	37.0	42.4
Females, 16 years and over:								
Married, spouse present	20,241	988	4,924	14,329	12,011	2,318	34.2	39.9
Widowed, divorced, or separated	7,586	467	998	6,121	4,784	1,337	37.2	41.1
Single (never married)	9,961	1,055	2,017	6,889	5,602	1,287	34.2	40.5

A-30. Persons at work in nonfarm occupations by sex and full- or part-time status

(Numbers in thousands)

Occupation and sex	June 1981								
	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	89,634	4,748	11,142	73,744	52,217	8,926	12,601	38.5	42.5
White-collar workers	47,549	1,564	6,185	39,800	27,723	4,441	7,636	39.0	42.7
Professional and technical	13,773	336	1,393	12,044	8,432	1,297	2,315	39.6	42.5
Managers and administrators, except farm	10,592	140	475	9,377	5,162	1,330	3,485	44.8	46.3
Sales workers	6,007	402	1,340	4,265	2,604	577	1,084	36.8	43.8
Clerical workers	17,176	687	2,978	13,511	11,522	1,237	752	35.8	39.9
Blue-collar workers	29,917	1,815	1,684	26,418	18,666	3,767	3,985	39.8	42.4
Craft and kindred workers	12,003	524	370	11,109	7,542	1,649	1,918	41.2	42.8
Operatives, except transport	9,987	581	417	8,989	6,766	1,317	906	39.6	41.4
Transport equipment operatives	3,135	176	183	2,776	1,628	394	754	42.6	45.4
Nonfarm laborers	4,792	535	714	3,543	2,730	407	406	35.2	41.2
Service workers	12,168	1,369	3,273	7,526	5,828	718	980	33.3	41.6
Private household	952	159	443	350	244	28	78	25.3	43.6
Other service workers	11,215	1,209	2,830	7,176	5,584	690	902	34.0	41.5
Males, 16 years and over	51,667	2,222	3,156	46,289	29,748	6,297	10,244	41.3	43.8
White-collar workers	22,609	455	1,202	20,952	12,288	2,668	5,996	43.0	44.9
Professional and technical	8,111	149	389	7,573	4,865	876	1,832	42.3	43.8
Managers and administrators, except farm	7,751	90	188	7,473	3,537	990	2,946	46.2	47.2
Sales workers	3,385	123	319	2,943	1,566	458	919	41.9	45.3
Clerical workers	3,363	93	305	2,965	2,322	345	298	39.7	41.2
Blue-collar workers	24,435	1,366	1,163	21,906	14,980	3,250	3,676	40.5	42.8
Craft and kindred workers	11,248	480	288	10,480	7,071	1,565	1,844	41.4	42.8
Operatives, except transport	6,044	225	175	5,544	3,962	946	736	41.0	42.4
Transport equipment operatives	2,919	166	119	2,634	1,525	381	728	43.2	45.5
Nonfarm laborers	4,223	494	581	3,143	2,422	359	367	35.4	41.3
Service workers	4,623	401	791	3,431	2,480	379	572	37.1	42.9
Private household	37	4	19	14	10	--	4	28.0	44.5
Other service workers	4,586	398	772	3,416	2,469	379	568	37.2	42.9
Females, 16 years and over	37,966	2,527	7,987	27,452	22,466	2,629	2,357	34.8	40.3
White-collar workers	24,940	1,109	4,983	18,848	15,435	1,773	1,640	35.4	40.3
Professional and technical	5,663	187	1,004	4,472	3,568	421	483	35.9	40.3
Managers and administrators, except farm	2,841	49	286	2,306	1,628	340	538	40.9	43.6
Sales workers	2,623	279	1,020	1,324	1,038	120	166	30.1	40.4
Clerical workers	13,813	593	2,672	10,548	9,202	892	454	35.1	39.6
Blue-collar workers	5,482	450	522	4,510	3,685	517	308	37.0	40.2
Craft and kindred workers	755	43	82	630	472	84	74	38.5	41.5
Operatives, except transport	3,943	356	242	3,345	2,805	371	169	37.3	39.8
Transport equipment operatives	216	10	65	141	103	13	25	34.6	43.1
Nonfarm laborers	568	42	132	394	306	48	40	34.0	40.5
Service workers	7,544	968	2,482	4,094	3,346	339	409	31.0	40.6
Private household	916	155	424	337	234	28	75	25.2	43.6
Other service workers	6,629	811	2,058	3,760	3,115	311	334	31.9	40.3

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A-31. Employment status of 14- and 15-year-olds by sex and race

[Numbers in thousands]

Employment status	June 1981								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,277	3,701	3,575	6,027	3,074	2,953	1,250	628	623
Civilian labor force	1,838	1,086	752	1,627	961	566	212	125	86
Employed	1,406	826	580	1,326	774	552	81	52	28
Agriculture	206	173	33	196	166	30	10	7	4
Nonagricultural industries	1,200	653	547	1,130	608	522	70	45	25
Unemployed	432	260	172	301	187	115	131	73	58
Unemployment rate	23.5	23.9	22.9	18.5	19.5	17.3	61.8	58.4	67.4
Not in labor force	5,438	2,615	2,823	4,400	2,113	2,287	1,038	502	536
Keeping house	210	26	184	173	22	151	37	4	33
Going to school	2,668	1,321	1,347	2,122	1,045	1,077	546	276	270
Unable to work	2	1	--	1	1	--	1	1	--
All other reasons	2,558	1,267	1,292	2,104	1,045	1,058	455	221	233

A-32. Employed 14- and 15-year-olds by class of worker, occupation, and sex

Class of worker and occupation	June 1981					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,406	826	580	100.0	100.0	100.0
Nonagricultural industries	1,200	653	547	85.3	79.1	94.1
Wage and salary workers	1,107	578	529	78.7	70.0	91.0
Private household workers	440	148	292	31.3	17.3	50.3
Government workers	56	35	21	4.0	4.2	3.6
Other wage and salary workers	611	394	216	43.4	47.7	37.2
Self-employed workers	68	56	12	4.8	6.8	2.1
Unpaid family workers	26	20	6	1.8	2.4	1.0
Agriculture	206	173	33	14.6	20.9	5.7
Wage and salary workers	113	95	18	8.0	11.5	3.1
Self-employed workers	40	32	8	2.8	3.9	1.4
Unpaid family workers	53	46	8	3.8	5.6	1.4
OCCUPATION						
Total	1,406	826	580	100.0	100.0	100.0
White-collar workers	288	206	82	20.5	24.9	14.1
Professional and technical	19	11	8	1.4	1.3	1.4
Managers and administrators, except farm	6	5	1	.4	.6	.2
Sales workers	214	175	39	15.2	21.2	6.7
Clerical workers	49	15	34	3.5	1.8	5.9
Blue-collar workers	353	321	31	25.1	38.9	5.3
Craft and kindred workers	26	21	5	1.8	2.5	.9
Operatives, except transport	34	26	8	2.4	3.1	1.4
Transport equipment operatives	--	--	1	--	--	.2
Nonfarm laborers	293	275	18	20.8	33.3	3.1
Service workers	607	162	444	43.2	19.6	76.4
Private household workers	318	25	293	22.6	3.0	50.4
Other service workers	289	137	152	20.6	16.6	26.2
Farm workers	158	136	22	11.2	16.5	3.8
Farmers and farm managers	6	4	2	.4	.5	.3
Farm laborers and supervisors	152	132	20	10.8	16.0	3.4

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-34. Full- and part-time status of the civilian labor force, seasonally adjusted

[Numbers in thousands]

Full- and part-time status	1980							1981					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
FULL TIME													
Total, 16 years and over:													
Civilian labor force	89,226	89,384	89,345	89,862	89,896	90,243	90,040	90,393	90,239	90,556	90,938	91,763	90,448
Employed	82,796	82,753	82,792	83,346	83,337	83,411	83,491	83,933	83,844	84,149	84,645	85,073	84,126
Unemployed	6,430	6,631	6,553	6,516	6,559	6,832	6,549	6,460	6,396	6,407	6,293	6,690	6,322
Unemployment rate	7.2	7.4	7.3	7.3	7.3	7.4	7.3	7.1	7.1	7.1	6.9	7.3	7.0
PART TIME													
Total, 16 years and over:													
Civilian labor force	15,473	15,716	15,560	15,105	15,284	15,253	15,323	15,156	15,410	15,504	15,805	15,693	15,780
Employed	14,110	14,340	14,211	13,794	13,893	13,938	13,798	13,775	14,005	14,108	14,376	14,171	14,325
Unemployed	1,363	1,376	1,349	1,311	1,391	1,315	1,525	1,381	1,405	1,396	1,429	1,522	1,455
Unemployment rate	8.8	8.8	8.7	8.7	9.1	8.6	9.2	9.2	9.1	9.0	9.0	9.7	9.2

NOTE: Persons on part-time schedules for economic reasons are included in the full-time employed category; unemployed persons are allocated by whether seeking full- or part-time work.

A-35. Employment status by race, sex, and age, seasonally adjusted

[Numbers in thousands]

Race, sex, and age	1980							1981					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
WHITE													
Total, 16 years and over:													
Civilian labor force	92,134	92,335	92,288	92,317	92,516	92,562	92,383	92,832	93,035	93,313	93,860	94,506	93,464
Employed	86,007	86,075	86,067	86,307	86,371	86,409	86,377	86,620	86,940	87,291	87,791	88,083	87,500
Unemployed	6,127	6,260	6,221	6,010	6,145	6,153	6,006	6,213	6,095	6,022	6,069	6,422	5,964
Unemployment rate	6.7	6.8	6.7	6.5	6.6	6.6	6.5	6.7	6.6	6.5	6.5	6.8	6.4
Males, 20 years and over:													
Civilian labor force	49,268	49,321	49,356	49,415	49,461	49,481	49,449	49,426	49,420	49,695	49,947	50,227	49,878
Employed	46,442	46,442	46,500	46,556	46,660	46,684	46,728	46,704	46,757	47,030	47,330	47,427	47,217
Unemployed	2,826	2,879	2,856	2,859	2,801	2,797	2,721	2,722	2,664	2,664	2,618	2,799	2,661
Unemployment rate	5.7	5.8	5.8	5.8	5.7	5.7	5.5	5.5	5.4	5.4	5.2	5.6	5.3
Females, 20 years and over:													
Civilian labor force	34,657	34,749	34,846	34,765	34,883	34,972	34,910	35,313	35,423	35,529	35,727	36,149	35,980
Employed	32,681	32,732	32,823	32,841	32,845	32,944	32,858	33,180	33,421	33,539	33,579	33,987	33,935
Unemployed	1,976	2,017	2,023	1,924	2,038	2,028	2,052	2,133	2,002	1,990	2,048	2,162	2,045
Unemployment rate	5.7	5.8	5.8	5.5	5.8	5.8	5.9	6.0	5.7	5.6	5.7	6.0	5.7
Both sexes, 16 to 19 years:													
Civilian labor force	8,209	8,265	8,086	8,137	8,172	8,109	8,224	8,093	8,191	8,029	8,186	8,130	7,605
Employed	6,884	6,901	6,744	6,910	6,866	6,781	6,791	6,735	6,762	6,712	6,782	6,669	6,348
Unemployed	1,325	1,364	1,342	1,227	1,306	1,328	1,233	1,358	1,429	1,317	1,404	1,461	1,258
Unemployment rate	16.1	16.5	16.6	15.1	16.0	16.4	15.4	16.8	17.4	16.9	17.2	18.0	16.5
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	12,491	12,661	12,630	12,677	12,686	12,736	12,668	12,684	12,598	12,765	12,899	12,895	12,741
Employed	10,809	10,902	10,902	10,894	10,884	10,922	10,895	11,051	10,942	11,020	11,193	11,138	10,928
Unemployed	1,682	1,759	1,728	1,783	1,802	1,784	1,773	1,634	1,655	1,745	1,706	1,757	1,813
Unemployment rate	13.5	13.9	13.7	14.1	14.2	14.0	14.0	12.9	13.1	13.7	13.2	13.6	14.2
Males, 20 years and over:													
Civilian labor force	5,965	6,029	6,049	6,064	6,030	6,042	6,015	5,996	6,007	6,072	6,081	6,153	6,046
Employed	5,235	5,275	5,291	5,266	5,300	5,315	5,315	5,367	5,355	5,414	5,437	5,425	5,288
Unemployed	730	754	758	798	730	727	700	628	651	658	644	727	758
Unemployment rate	12.2	12.5	12.5	13.2	12.1	12.0	11.6	10.5	10.8	10.8	10.6	11.8	12.5
Females, 20 years and over:													
Civilian labor force	5,523	5,600	5,629	5,568	5,648	5,652	5,654	5,638	5,645	5,708	5,764	5,724	5,759
Employed	4,920	4,966	5,017	4,978	4,953	4,965	4,956	5,016	4,976	4,988	5,083	5,036	5,055
Unemployed	603	634	612	590	695	687	598	621	669	720	681	688	694
Unemployment rate	10.9	11.3	10.9	10.6	12.3	12.2	12.3	11.0	11.9	12.6	11.8	12.0	12.0
Both sexes, 16 to 19 years:													
Civilian labor force	1,303	1,032	952	1,045	1,008	1,312	999	1,051	946	985	1,054	1,018	936
Employed	654	661	594	650	631	642	624	667	611	618	673	676	575
Unemployed	349	371	358	395	377	370	375	384	335	367	381	342	361
Unemployment rate	34.8	35.9	37.6	37.8	37.4	35.6	37.5	36.5	35.4	37.3	36.1	33.6	38.6

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Category	1980							1981					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
CHARACTERISTIC													
Total (all civilian workers)	7.5	7.6	7.6	7.4	7.5	7.5	7.4	7.4	7.3	7.3	7.3	7.6	7.3
Males, 20 years and over	6.4	6.6	6.5	6.6	6.4	5.4	6.2	6.0	6.0	5.9	5.8	6.3	6.1
Females, 20 years and over	6.4	6.6	6.5	6.2	6.7	6.7	6.8	6.7	6.5	6.6	6.6	6.8	6.5
Both sexes, 16-19 years	18.3	18.7	18.8	17.8	18.5	19.6	17.8	19.0	19.3	19.1	19.1	19.5	19.0
White	6.7	6.8	6.7	6.5	6.6	6.6	6.5	6.7	6.6	6.5	6.5	6.8	6.4
Black and other	13.5	13.9	13.7	14.1	14.2	14.0	14.0	12.9	13.1	13.7	13.2	13.6	14.2
Married men, spouse present	4.6	4.9	4.8	4.7	4.6	4.4	4.3	4.2	4.1	4.1	3.8	4.1	4.2
Married women, spouse present	6.0	6.1	6.0	5.7	6.3	5.9	5.8	6.2	5.8	6.0	5.9	5.9	5.6
Women who maintain families	8.5	8.8	9.0	9.0	10.2	9.9	10.4	10.5	9.6	9.4	9.8	10.3	10.6
Full-time workers	7.2	7.4	7.3	7.3	7.3	7.4	7.3	7.1	7.1	7.1	6.9	7.3	7.0
Part-time workers	8.8	8.8	8.7	8.7	9.1	8.6	8.2	9.2	9.1	9.0	9.0	9.7	9.2
Unemployed 15 weeks and over ¹	1.7	1.8	2.0	2.2	2.2	2.2	2.3	2.2	2.1	2.1	2.0	2.0	2.2
Labor force time lost ²	8.1	8.4	8.3	8.2	8.4	8.3	8.2	8.2	8.1	8.1	8.2	8.6	8.0
OCCUPATION													
White-collar workers	3.7	3.7	3.7	3.8	3.9	3.9	4.0	3.9	3.7	3.9	4.0	4.1	3.8
Professional and technical	2.5	2.4	2.4	2.5	2.5	2.5	2.6	2.8	2.6	2.7	3.2	2.9	2.8
Managers and administrators, except farm	2.5	2.6	2.5	2.4	2.5	2.4	2.5	2.4	2.4	2.6	2.4	2.7	2.8
Sales workers	4.4	4.2	4.2	4.3	4.6	4.8	4.7	4.4	4.0	3.8	4.0	4.6	4.1
Clerical workers	5.2	5.4	5.4	5.4	5.5	5.6	5.8	5.7	5.3	5.9	5.6	5.6	5.3
Blue-collar workers	11.1	11.3	11.1	10.8	10.8	10.7	10.5	10.2	10.1	9.8	9.6	10.0	9.8
Craft and kindred workers	7.5	7.2	7.6	7.4	7.1	7.1	7.1	6.8	7.2	7.1	6.8	7.7	7.2
Operatives, except transport	13.4	14.4	13.3	13.0	13.2	13.0	12.9	12.1	11.9	11.3	11.5	11.9	11.0
Transport equipment operatives	10.0	10.0	9.8	10.4	10.6	10.6	8.8	9.1	8.3	9.3	8.1	8.2	8.4
Nonfarm laborers	15.7	15.8	16.1	15.2	15.3	15.0	14.8	15.0	14.9	14.1	13.8	13.1	14.8
Service workers	8.1	8.3	8.5	8.1	8.3	8.3	7.8	8.0	8.7	8.1	8.5	9.4	9.0
Farm workers	4.5	4.6	5.5	4.3	4.4	4.0	4.0	5.0	4.7	5.1	3.7	5.4	6.0
INDUSTRY													
Nonagricultural private wage and salary workers ³	8.0	8.0	8.0	7.8	7.8	7.8	7.7	7.5	7.3	7.3	7.2	7.8	7.4
Construction	15.6	15.8	17.3	15.9	14.6	14.8	13.8	13.3	13.2	14.7	14.4	16.3	16.6
Manufacturing	9.7	9.8	9.3	9.2	9.2	8.9	8.8	8.4	8.4	8.0	7.4	7.9	7.6
Durable goods	10.9	10.7	10.1	10.0	9.5	9.0	9.0	8.3	8.5	7.9	7.3	7.3	7.4
Nondurable goods	7.9	8.5	8.0	7.9	8.9	8.6	8.5	8.5	8.2	8.3	7.6	8.9	7.8
Transportation	5.1	5.6	5.6	5.3	5.3	4.9	4.9	5.8	5.5	6.4	5.7	5.9	4.7
Wholesale and retail trade	7.7	7.6	7.7	7.7	7.8	8.2	8.3	7.6	7.6	7.3	7.3	8.4	7.5
Finance and service industries	5.6	5.6	5.5	5.4	5.6	5.5	5.5	5.8	6.0	5.6	5.9	5.9	5.8
Government workers	3.5	4.1	4.0	4.1	4.4	4.2	4.1	4.4	4.3	4.6	4.9	4.8	4.5
Agricultural wage and salary workers	10.4	10.8	13.2	10.7	11.1	10.1	10.6	11.5	12.1	11.9	9.1	11.1	13.1

¹ Unemployment as a percent of the civilian labor force.

as a percent of potentially available labor force hours.

² Aggregate hours lost by the unemployed and persons on part-time for economic reasons

³ Includes mining, not shown separately.

A-37. Unemployed persons by duration of unemployment, seasonally adjusted

[Numbers in thousands]

Weeks of unemployment	1980							1981					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
DURATION													
Less than 5 weeks	3,281	3,317	3,255	3,042	3,186	3,108	3,115	3,259	3,203	3,209	3,074	3,369	3,172
5 to 14 weeks	2,812	2,649	2,533	2,586	2,500	2,524	2,217	2,264	2,324	2,356	2,462	2,581	2,363
15 weeks and over	1,777	1,935	2,150	2,295	2,292	2,329	2,378	2,358	2,250	2,192	2,105	2,168	2,315
15 to 26 weeks	1,024	1,093	1,239	1,366	1,256	1,213	1,231	1,079	992	1,013	1,001	1,022	1,205
27 weeks and over	753	842	911	929	1,036	1,116	1,147	1,279	1,257	1,179	1,104	1,146	1,110
Average (mean) duration, in weeks	11.7	11.8	12.5	13.0	13.3	13.6	13.5	14.4	14.4	14.0	13.7	13.2	14.2
Median duration, in weeks	6.4	7.1	7.4	8.0	7.5	7.7	7.3	7.4	6.9	7.0	7.7	7.1	6.7
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	41.7	42.0	41.0	38.4	39.9	39.0	40.4	41.3	41.2	41.4	40.2	41.5	40.4
5 to 14 weeks	35.7	33.5	31.9	32.6	31.3	31.7	29.8	28.7	29.9	30.4	32.2	31.8	30.1
15 weeks and over	22.6	24.5	27.1	29.0	28.7	29.3	30.8	29.9	28.9	28.3	27.6	26.7	29.5
15 to 26 weeks	13.0	13.8	15.6	17.2	15.7	15.2	16.0	13.7	12.8	13.1	13.1	12.6	15.4
27 weeks and over	9.6	10.7	11.5	11.7	13.0	14.0	14.9	16.2	16.2	15.2	14.5	14.1	14.1

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

Sex and age	1980							1981					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over	7.5	7.6	7.6	7.4	7.6	7.5	7.4	7.4	7.3	7.3	7.3	7.6	7.3
16 to 19 years	18.3	18.7	18.8	17.8	18.5	18.6	17.8	19.0	19.3	19.1	19.1	19.5	19.0
16 to 17 years	20.0	20.5	22.1	20.1	20.9	21.4	19.9	21.0	21.4	21.3	22.0	21.6	22.6
18 to 19 years	17.6	17.4	16.5	16.0	16.7	16.5	16.4	17.5	17.9	17.7	17.2	18.2	17.3
20 to 24 years	12.1	12.1	12.0	12.0	12.3	12.1	11.7	11.9	11.8	11.7	12.1	12.9	12.1
25 years and over	5.4	5.5	5.4	5.4	5.4	5.4	5.3	5.3	5.1	5.2	5.0	5.3	5.2
25 to 54 years	5.8	5.9	5.9	5.9	5.9	5.9	5.8	5.7	5.5	5.5	5.4	5.6	5.6
55 years and over	3.3	3.4	3.4	3.4	3.4	3.3	3.5	3.5	3.6	3.7	3.3	3.3	3.4
Males, 16 years and over	7.5	7.6	7.6	7.6	7.4	7.4	7.2	7.2	7.1	7.0	6.9	7.4	7.1
16 to 19 years	19.1	19.5	19.9	18.9	19.8	19.8	19.0	20.3	20.1	19.5	19.3	20.2	19.8
16 to 17 years	21.5	20.9	23.7	21.2	21.8	22.3	20.5	23.0	22.1	21.1	22.7	22.7	24.4
18 to 19 years	18.8	18.4	17.1	16.9	18.1	17.8	17.8	18.5	18.7	18.6	17.0	18.3	18.1
20 to 24 years	13.4	13.2	13.6	13.5	13.8	13.2	12.5	12.8	12.7	13.0	13.2	14.2	12.8
25 years and over	5.2	5.4	5.3	5.4	5.1	5.1	4.9	4.9	4.8	4.7	4.6	4.8	5.0
25 to 54 years	5.6	5.8	5.7	6.0	5.6	5.6	5.4	5.2	5.2	5.1	4.9	5.1	5.3
55 years and over	3.6	3.6	3.6	3.5	3.3	3.3	3.3	3.4	3.4	3.2	3.1	3.4	3.5
Females, 16 years and over	7.4	7.7	7.6	7.2	7.7	7.7	7.7	7.7	7.6	7.7	7.7	7.9	7.6
16 to 19 years	17.3	17.7	17.6	16.6	17.0	17.2	16.5	17.5	18.4	18.7	18.9	18.7	18.2
16 to 17 years	18.3	20.1	20.2	18.8	19.8	20.3	19.3	18.7	20.5	21.6	21.1	20.4	20.6
18 to 19 years	16.3	16.2	15.9	15.1	15.1	15.1	14.8	16.4	17.0	16.5	17.4	18.2	16.4
20 to 24 years	10.6	10.9	10.2	10.2	10.6	10.8	10.8	10.8	10.8	10.1	10.9	11.4	11.2
25 years and over	5.5	5.7	5.7	5.4	5.9	5.8	5.9	5.8	5.6	5.9	5.6	5.9	5.5
25 to 54 years	6.0	6.1	6.2	5.9	6.4	6.2	6.3	6.3	5.9	6.2	6.0	6.4	6.3
55 years and over	2.9	3.1	3.1	3.3	3.4	3.4	3.9	3.5	3.9	4.5	3.7	3.3	3.3

A-39. Unemployed persons by reason for unemployment, seasonally adjusted

[Numbers in thousands]

Reason for unemployment	1980							1981					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	4,468	4,364	4,319	4,387	4,240	4,229	4,226	3,847	3,896	3,846	3,819	4,084	4,219
On layoff	1,954	1,832	1,699	1,744	1,692	1,453	1,470	1,258	1,267	1,299	1,280	1,368	1,367
Other job losers	2,514	2,532	2,620	2,643	2,548	2,776	2,756	2,590	2,629	2,547	2,539	2,715	2,852
Job leavers	887	866	890	855	870	897	813	907	884	863	854	1,009	863
Reentrants	1,834	1,868	1,883	1,844	2,013	1,896	1,869	2,039	1,970	2,040	2,017	2,126	1,955
New entrants	872	893	870	862	880	890	868	1,000	928	986	987	938	956
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	55.4	54.6	54.2	55.2	53.0	53.5	54.3	49.4	50.7	49.7	49.7	50.1	52.8
On layoff	24.2	22.9	21.3	21.9	21.1	18.4	19.9	16.1	16.5	16.8	16.7	16.8	17.1
Other job losers	31.2	31.7	32.9	33.3	31.8	35.1	35.4	33.2	34.2	32.9	33.1	33.3	35.7
Job leavers	11.0	10.8	11.2	10.8	10.9	11.3	12.5	11.6	11.5	11.2	11.1	12.4	10.8
Reentrants	22.8	23.4	23.6	23.2	25.2	24.0	24.0	26.2	25.7	26.4	26.3	26.1	24.5
New entrants	10.8	11.2	10.9	10.8	11.0	11.2	11.2	12.8	12.1	12.7	12.9	11.5	12.0
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	4.3	4.2	4.1	4.2	4.0	4.0	4.0	3.6	3.7	3.6	3.6	3.8	4.0
Job leavers .....	.8	.8	.8	.8	.8	.9	.8	.9	.8	.8	.8	.9	.8
Reentrants	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.9	1.9	1.9	1.9	2.0	1.8
New entrants .....	.8	.9	.8	.8	.8	.8	.8	.9	.9	.9	.9	.9	.9

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-42. Employed persons by selected social and economic categories, seasonally adjusted

[In thousands]

Category	1980							1981					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
CHARACTERISTIC													
Total, 18 years and over	96,780	96,999	97,003	97,180	97,206	97,339	97,282	97,696	97,927	98,412	98,976	99,235	98,392
Married men, spouse present	38,220	38,049	37,987	38,027	38,142	38,167	38,231	38,182	38,113	38,365	38,510	38,498	38,216
Married women, spouse present	23,131	23,118	23,126	23,027	22,993	23,065	23,063	23,352	23,356	23,513	23,529	23,831	23,763
OCCUPATION													
White-collar workers	50,836	51,023	51,307	51,074	51,101	51,148	51,365	51,594	51,698	51,746	51,801	51,967	51,959
Professional and technical	15,682	15,717	15,751	15,540	15,780	15,853	15,810	15,965	15,813	15,827	15,754	15,688	16,057
Managers and administrators, except farm	10,901	10,999	11,109	11,007	10,979	11,016	11,009	11,363	11,488	11,565	11,444	11,260	11,174
Sales workers	6,046	6,130	6,140	6,316	6,277	6,155	6,175	6,265	6,271	6,220	6,145	6,461	6,440
Clerical workers	18,207	18,177	18,307	18,211	18,065	18,114	18,371	13,091	18,125	18,135	18,457	18,557	18,288
Blue-collar workers	30,443	30,276	30,232	30,436	30,521	30,550	30,373	30,338	30,446	30,594	31,156	31,373	30,922
Craft and kindred workers	12,357	12,403	12,346	12,490	12,485	12,424	12,337	12,306	12,386	12,605	12,624	12,743	12,482
Operatives, except transport	10,233	10,189	10,147	10,202	10,210	10,247	10,194	10,331	10,390	10,189	10,524	10,609	10,550
Transport equipment operatives	3,429	3,354	3,478	3,434	3,443	3,429	3,402	3,322	3,361	3,363	3,411	3,390	3,425
Nonfarm laborers	4,424	4,330	4,261	4,310	4,383	4,350	4,343	4,380	4,309	4,437	4,596	4,632	4,466
Service workers	12,941	13,017	12,928	12,943	12,891	12,888	12,982	12,946	13,070	13,279	13,255	13,213	12,930
Farm workers	2,625	2,694	2,620	2,757	2,735	2,729	2,804	2,737	2,662	2,679	2,934	2,707	2,648
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,369	1,360	1,282	1,417	1,363	1,417	1,411	1,465	1,336	1,338	1,524	1,464	1,377
Self-employed workers	1,606	1,631	1,640	1,688	1,640	1,612	1,655	1,615	1,610	1,615	1,648	1,644	1,657
Unpaid family workers	278	295	280	309	325	324	305	284	325	312	290	231	258
Nonagricultural industries:													
Wage and salary workers	86,370	86,432	86,490	86,395	86,587	86,543	86,513	87,125	87,236	87,870	88,195	88,877	87,734
Government	15,817	15,718	15,531	15,575	15,597	15,651	15,653	15,738	15,589	15,685	15,628	15,512	15,460
Private industries	70,553	70,714	70,959	70,820	70,990	70,992	70,860	71,387	71,647	72,185	72,567	73,365	72,274
Private households	1,204	1,230	1,196	1,125	1,144	1,143	1,110	1,197	1,176	1,235	1,241	1,164	1,146
Other industries	69,349	69,484	69,763	69,695	69,846	69,844	69,750	70,190	70,471	70,949	71,327	72,201	71,128
Self-employed workers	6,728	6,801	6,881	6,977	7,005	6,943	6,973	6,839	6,923	6,896	7,021	6,761	7,005
Unpaid family workers	445	426	403	416	417	405	396	422	371	354	306	338	369
PERSONS AT WORK¹													
Nonagricultural industries	87,994	87,431	88,195	88,246	88,488	88,694	88,468	89,499	89,441	89,583	89,202	89,870	89,625
Full-time schedules	71,454	70,825	71,526	71,929	72,071	72,265	72,131	72,807	72,945	72,875	72,761	73,375	73,115
Part-time for economic reasons	3,969	4,086	4,143	4,183	4,220	4,176	4,218	4,474	4,145	4,227	4,044	4,143	3,798
Usually work full-time	1,734	1,794	1,709	1,701	1,685	1,620	1,647	1,698	1,622	1,638	1,517	1,630	1,367
Usually work part-time	2,235	2,292	2,434	2,482	2,535	2,556	2,571	2,776	2,523	2,589	2,527	2,513	2,431
Part time for noneconomic reasons	12,571	12,520	12,526	12,134	12,197	12,253	12,119	12,218	12,351	12,481	12,397	12,352	12,713

¹ Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, illness, or industrial dispute.

A-43. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninstitutional population		Civilian labor force							
			Total		Employed		Unemployed		Percent of labor force	
							Number			
June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	June 1980	June 1981	
VETERANS										
Total, 25 years and over	8,258	8,541	7,865	8,103	7,378	7,580	487	423	6.2	5.2
25 to 39 years	7,267	7,320	7,011	7,052	6,552	6,560	459	392	6.5	5.6
25 to 29 years	1,722	1,497	1,624	1,408	1,444	1,269	180	139	11.1	9.9
30 to 34 years	3,582	3,340	3,476	3,236	3,290	3,067	185	169	5.4	5.2
35 to 39 years	1,963	2,483	1,911	2,408	1,818	2,324	93	84	4.9	3.5
40 years and over	991	1,221	854	1,051	826	1,023	28	31	3.3	2.9
NONVETERANS										
Total, 25 to 39 years	15,438	16,312	14,645	15,455	13,743	14,544	902	911	6.2	5.9
25 to 29 years	7,071	7,383	6,696	6,997	6,164	6,513	532	484	7.9	6.9
30 to 34 years	4,561	5,241	4,353	4,980	4,117	4,702	236	278	5.4	5.6
35 to 39 years	3,806	3,688	3,596	3,478	3,462	3,329	134	149	3.7	4.3

NOTE: Vietnam-era veterans are males who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are males who have never served in the Armed Forces; published data are limited to those 25 to 39 years of age, the group that most closely corresponds to the bulk of the

Vietnam-era veteran population. Data for 20-to-24-year-old veterans are no longer shown on the table, because the group is rapidly disappearing (into the 25-29 age category) and the numbers remaining are not large enough to warrant their continued publication.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-45. Full- and part-time status of the civilian labor force by sex and age, seasonally adjusted

[Numbers in thousands]

Full- and part-time status, sex, and age	1978			1979				1980				1981	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
FULL TIME													
Total, 16 years and over:													
Civilian labor force	85,274	85,976	86,395	87,207	87,463	87,866	88,432	88,675	89,354	89,530	89,993	90,396	91,050
Employed ¹	80,642	81,321	81,837	82,585	82,965	83,261	83,595	83,506	83,073	82,964	83,413	83,975	84,614
Unemployed	4,632	4,655	4,558	4,622	4,498	4,605	4,837	5,170	6,280	6,567	6,580	6,421	6,435
Unemployment rate	5.4	5.4	5.3	5.3	5.1	5.2	5.5	5.8	7.0	7.3	7.3	7.1	7.1
Males, 20 years and over:													
Civilian labor force	50,682	50,752	51,163	51,610	51,709	51,844	51,959	52,335	52,436	52,635	52,757	52,716	53,313
Employed ¹	48,655	48,788	49,156	49,585	49,762	49,814	49,749	49,564	49,202	49,178	49,433	49,562	50,112
Unemployed	2,027	1,963	2,007	2,025	1,946	2,030	2,210	2,471	3,234	3,458	3,325	3,138	3,201
Unemployment rate	4.0	3.9	3.9	3.9	3.8	3.9	4.3	4.7	6.2	6.6	6.3	6.0	6.0
Females, 20 years and over:													
Civilian labor force	29,339	29,822	30,101	30,386	30,597	30,931	31,297	31,560	31,955	32,084	32,357	32,833	33,070
Employed ¹	27,555	28,003	28,414	28,634	28,868	29,203	29,541	29,744	29,876	29,955	30,070	30,550	30,818
Unemployed	1,784	1,820	1,687	1,753	1,728	1,728	1,756	1,816	2,079	2,129	2,287	2,283	2,252
Unemployment rate	6.1	6.1	5.6	5.8	5.6	5.6	5.6	5.8	6.5	6.6	7.1	7.0	6.8
Both sexes, 16-19 years:													
Civilian labor force	5,254	5,402	5,131	5,212	5,158	5,391	5,176	5,081	4,962	4,812	4,878	4,864	4,666
Employed ¹	4,432	4,530	4,267	4,367	4,335	4,244	4,305	4,198	3,995	3,831	3,910	3,863	3,684
Unemployed	821	872	864	845	823	847	871	883	967	980	969	1,000	982
Unemployment rate	15.6	16.1	16.8	16.2	16.0	15.6	16.8	17.4	19.5	20.4	19.9	20.6	21.0
PART TIME													
Total, 16 years and over:													
Civilian labor force	14,929	14,757	15,100	15,093	14,964	15,333	15,297	15,518	15,388	15,460	15,186	15,360	15,759
Employed ¹	13,581	13,430	13,738	13,736	13,648	14,013	13,989	14,175	14,020	14,115	13,876	13,963	14,291
Unemployed	1,348	1,327	1,362	1,357	1,316	1,320	1,308	1,343	1,367	1,345	1,309	1,397	1,469
Unemployment rate	9.0	9.0	9.0	9.0	8.8	8.6	8.6	8.7	8.9	8.7	8.6	9.1	9.3
Males, 20 years and over:													
Civilian labor force	2,746	2,690	2,716	2,649	2,646	2,770	2,785	2,894	2,845	2,750	2,752	2,831	2,802
Employed ¹	2,561	2,505	2,535	2,481	2,476	2,580	2,517	2,739	2,651	2,576	2,582	2,632	2,603
Unemployed	185	185	181	168	170	190	168	185	194	174	170	200	199
Unemployment rate	6.7	6.9	6.7	6.3	6.4	5.8	5.0	6.4	6.8	6.3	6.2	7.1	7.1
Females, 20 years and over:													
Civilian labor force	7,928	7,801	7,931	8,039	7,979	8,220	8,191	8,317	8,215	8,293	8,197	8,284	8,648
Employed ¹	7,463	7,341	7,449	7,549	7,530	7,754	7,714	7,818	7,734	7,838	7,748	7,831	8,126
Unemployed	465	460	482	490	449	466	477	499	481	455	449	452	522
Unemployment rate	5.9	5.9	6.1	6.1	5.6	5.7	5.8	6.0	5.9	5.5	5.5	5.5	6.0
Both sexes, 16-19 years:													
Civilian labor force	4,255	4,267	4,452	4,405	4,339	4,343	4,321	4,307	4,328	4,417	4,236	4,245	4,309
Employed ¹	3,557	3,584	3,754	3,706	3,642	3,679	3,557	3,648	3,636	3,701	3,546	3,500	3,562
Unemployed	698	682	699	699	697	664	664	659	692	716	690	745	747
Unemployment rate	16.4	16.0	15.7	15.9	16.1	15.3	15.4	15.3	16.0	16.2	16.3	17.6	17.3

¹ Persons on part-time schedules for economic reasons are included in the full-time employed category; unemployed persons are allocated by whether seeking full- or part-time work.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-46. Employment status by race, sex, and age, seasonally adjusted

[Numbers in thousands]

Employment status, race, sex, and age	1978			1979				1980				1981	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
WHITE													
Total, 16 years and over:													
Civilian labor force	88,257	88,743	89,437	90,119	90,129	90,839	91,346	91,819	92,226	92,313	92,487	93,060	93,943
Employed	83,716	84,169	84,895	85,552	85,715	86,254	86,591	86,784	86,216	86,150	86,386	86,950	87,791
Unemployed	4,540	4,574	4,542	4,566	4,413	4,585	4,755	5,035	6,011	6,164	6,101	6,110	6,152
Unemployment rate	5.1	5.2	5.1	5.1	4.9	5.0	5.2	5.5	6.5	6.7	6.6	6.6	6.5
Males, 20 years and over:													
Civilian labor force	47,675	47,757	48,066	48,422	48,446	48,586	48,801	49,021	49,314	49,364	49,464	49,514	50,017
Employed	45,964	46,082	46,362	46,727	46,818	46,941	46,940	45,931	46,573	46,499	46,691	46,830	47,325
Unemployed	1,711	1,675	1,703	1,695	1,627	1,745	1,861	2,090	2,741	2,865	2,773	2,683	2,692
Unemployment rate	3.6	3.5	3.5	3.5	3.4	3.6	3.8	4.3	5.6	5.8	5.6	5.4	5.4
Females, 20 years and over:													
Civilian labor force	32,096	32,390	32,834	33,118	33,235	33,759	34,066	34,407	34,635	34,787	34,922	35,422	35,952
Employed	30,401	30,666	31,189	31,440	31,602	32,101	32,363	32,648	32,690	32,799	32,382	33,380	33,867
Unemployed	1,695	1,724	1,645	1,678	1,633	1,658	1,703	1,758	1,945	1,988	2,339	2,042	2,085
Unemployment rate	5.3	5.3	5.0	5.1	4.9	4.9	5.0	5.1	5.6	5.7	5.8	5.8	5.8
Both sexes, 16 to 19 years:													
Civilian labor force	8,486	8,596	8,537	8,579	8,448	8,394	8,480	8,392	8,277	8,163	8,102	8,124	7,974
Employed	7,351	7,421	7,344	7,386	7,295	7,212	7,289	7,204	6,952	6,852	6,813	6,739	6,600
Unemployed	1,135	1,175	1,193	1,193	1,153	1,182	1,191	1,187	1,325	1,311	1,289	1,385	1,374
Unemployment rate	13.4	13.7	14.0	13.9	13.6	14.1	14.0	14.1	16.0	16.1	15.9	17.0	17.2
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	11,932	12,012	12,107	12,193	12,258	12,346	12,412	12,383	12,479	12,656	12,587	12,682	12,845
Employed	10,506	10,603	10,711	10,788	10,863	11,009	11,008	10,925	10,830	10,899	10,900	11,034	11,086
Unemployed	1,426	1,409	1,396	1,405	1,395	1,336	1,404	1,464	1,650	1,757	1,786	1,678	1,759
Unemployment rate	12.0	11.7	11.5	11.5	11.4	10.8	11.3	11.8	13.2	13.9	14.1	13.2	13.7
Males, 20 years and over:													
Civilian labor force	5,724	5,717	5,806	5,839	5,878	5,956	5,934	5,922	5,948	6,047	6,029	6,025	6,093
Employed	5,232	5,243	5,319	5,338	5,397	5,481	5,415	5,357	5,258	5,277	5,310	5,379	5,383
Unemployed	492	474	487	501	482	475	519	565	689	770	719	646	710
Unemployment rate	8.6	8.3	8.4	8.6	8.2	8.0	8.8	9.5	11.6	12.7	11.9	10.7	11.7
Females, 20 years and over:													
Civilian labor force	5,164	5,226	5,237	5,289	5,329	5,392	5,455	5,448	5,529	5,599	5,551	5,663	5,749
Employed	4,614	4,667	4,700	4,736	4,786	4,840	4,918	4,996	4,910	4,987	4,958	4,993	5,062
Unemployed	550	559	537	553	543	542	538	542	620	612	693	670	687
Unemployment rate	10.6	10.7	10.3	10.4	10.2	10.1	9.9	10.0	11.2	10.9	12.3	11.8	12.0
Both sexes, 16 to 19 years:													
Civilian labor force	1,043	1,069	1,064	1,065	1,051	1,008	1,022	1,019	1,002	1,010	1,006	994	1,003
Employed	659	693	693	714	680	588	675	662	662	635	532	632	641
Unemployed	384	376	371	351	371	320	347	357	341	375	374	362	361
Unemployment rate	36.8	35.2	34.9	33.0	35.3	31.8	33.9	35.0	34.0	37.1	37.2	35.4	36.0

HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES

A-47. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Category	1978			1979				1980				1981	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
CHARACTERISTIC													
Total (all civilian workers)	6.0	5.9	5.9	5.8	5.7	5.7	5.9	6.2	7.3	7.5	7.5	7.4	7.4
Males, 20 years and over	4.1	4.0	4.1	4.0	3.9	4.1	4.4	4.8	6.2	6.6	6.3	6.0	6.1
Females, 20 years and over	6.0	6.1	5.7	5.8	5.6	5.6	5.7	5.8	6.4	6.4	6.7	6.6	6.6
Both sexes, 16-19 years	15.9	16.1	16.3	16.0	15.0	16.0	16.2	16.4	17.9	18.4	18.3	19.1	19.2
White	5.1	5.2	5.1	5.1	4.9	5.0	5.2	5.5	6.5	6.7	6.6	6.6	6.5
Black and other	12.0	11.7	11.5	11.5	11.4	10.8	11.3	11.8	13.2	13.9	14.1	13.2	13.7
Married men, spouse present	2.8	2.6	2.6	2.7	2.6	2.8	3.0	3.4	4.4	4.8	4.4	4.1	4.0
Married women, spouse present	5.5	5.6	5.4	5.3	5.1	5.0	5.0	5.4	5.9	5.9	5.9	6.0	5.8
Women who maintain families	9.2	8.7	7.8	8.1	8.5	8.0	8.4	8.7	8.6	8.9	10.2	9.9	10.2
Full-time workers	5.4	5.4	5.3	5.3	5.1	5.2	5.5	5.8	7.0	7.3	7.3	7.1	7.1
Part-time workers	9.0	9.0	9.0	9.0	8.8	8.6	8.6	8.7	8.9	8.7	8.6	9.1	9.3
Unemployed 15 weeks and over ¹	1.4	1.3	1.2	1.2	1.2	1.1	1.2	1.3	1.6	2.0	2.2	2.1	2.1
Labor force time lost ²	6.5	6.5	6.3	6.3	6.3	6.3	6.4	6.7	8.1	8.3	8.3	8.1	8.3
OCCUPATION													
White-collar workers	3.6	3.6	3.3	3.4	3.3	3.4	3.3	3.4	3.7	3.8	3.9	3.9	4.0
Professional and technical	2.5	2.6	2.7	2.4	2.3	2.5	2.4	2.3	2.5	2.4	2.6	2.7	3.0
Managers and administrators, except farm	2.9	2.1	2.0	2.0	2.1	2.2	2.1	2.2	2.5	2.5	2.5	2.5	2.6
Sales workers	4.3	4.3	3.8	4.0	4.0	3.9	3.9	4.2	4.4	4.3	4.7	4.1	4.2
Clerical workers	5.1	5.0	4.5	4.8	4.5	4.6	4.6	4.8	5.2	5.4	5.6	5.6	5.5
Blue-collar workers	6.6	6.6	6.7	6.7	6.6	6.9	7.5	8.1	10.5	11.1	10.7	10.0	9.8
Craft and kindred workers	4.4	4.3	4.6	4.6	4.1	4.3	4.8	5.2	7.2	7.4	7.1	7.0	7.2
Operatives, except transport	8.1	8.1	7.7	7.9	8.1	8.6	9.2	9.6	12.9	13.6	13.0	11.8	11.5
Transport equipment operatives	5.2	5.2	5.1	5.2	5.4	5.6	5.6	6.9	9.0	10.1	10.0	8.9	8.2
Nonfarm laborers	9.7	10.1	11.0	10.1	10.6	10.8	11.8	12.8	14.9	15.7	15.0	14.7	13.9
Service workers	7.4	7.3	7.4	7.5	7.1	6.9	6.8	7.0	8.0	8.3	8.1	8.3	9.0
Farm workers	3.4	3.7	3.7	3.2	3.4	4.0	4.3	4.2	4.7	4.8	4.1	5.0	5.0
INDUSTRY													
Nonagricultural private wage and salary workers ³	5.8	5.8	5.7	5.7	5.6	5.8	5.9	6.2	7.7	7.9	7.8	7.5	7.5
Construction	9.6	10.0	11.5	10.7	9.8	9.4	13.6	11.8	15.6	16.3	14.4	13.8	15.8
Manufacturing	5.5	5.3	5.1	5.1	5.3	5.8	6.0	6.7	9.1	9.4	9.0	8.3	7.6
Durable goods	4.8	4.8	4.6	4.4	4.6	5.2	5.7	6.6	9.9	10.3	9.2	8.2	7.4
Nondurable goods	6.5	6.0	5.9	6.2	6.4	5.7	6.5	6.8	7.9	8.1	8.7	8.3	8.1
Transportation and public utilities	3.9	3.6	3.4	3.6	3.2	3.7	4.1	4.3	4.9	5.5	5.0	5.9	5.4
Wholesale and retail trade	6.7	6.7	6.7	6.5	6.4	6.4	6.4	6.5	7.4	7.7	8.1	7.5	7.7
Finance and service industries	5.0	5.2	4.9	5.0	4.8	4.9	4.7	4.8	5.4	5.5	5.5	5.8	5.9
Government workers	4.0	3.9	3.9	3.9	3.6	3.5	3.8	3.9	4.0	4.1	4.2	4.4	4.8
Agricultural wage and salary workers	8.2	8.6	8.4	8.1	8.6	9.6	9.8	10.1	11.2	11.5	10.6	11.8	11.1

¹ Unemployment as a percent of the civilian labor force.

² Aggregate hours lost by the unemployed and persons on part-time for economic reasons

³ as a percent of potentially available labor force hours.

³ Includes mining, not shown separately.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-48. Unemployed persons by duration of unemployment, seasonally adjusted

[Numbers in thousands]

Weeks of unemployment	1978			1979				1980				1981	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
DURATION													
Both sexes, 16 years and over:													
Less than 5 weeks	2,740	2,861	2,820	2,778	2,805	2,927	2,977	3,072	3,418	3,205	3,136	3,224	3,205
5 to 14 weeks	1,845	1,844	1,863	1,916	1,830	1,871	1,947	2,112	2,591	2,589	2,414	2,315	2,468
15 weeks and over	1,384	1,280	1,247	1,261	1,184	1,130	1,216	1,336	1,687	2,127	2,333	2,266	2,196
15 to 26 weeks	730	667	717	714	671	640	693	789	978	1,233	1,233	1,028	1,076
27 weeks and over	654	613	530	547	513	490	524	548	709	894	1,100	1,238	1,120
Average (mean duration, in weeks	12.1	11.6	11.2	11.4	10.8	10.5	10.6	10.8	11.2	12.4	13.5	14.3	13.7
Median duration, in weeks	5.9	5.8	5.7	5.8	5.6	5.4	5.5	5.6	6.0	7.5	7.5	7.1	7.2
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	45.9	47.8	47.6	46.7	48.2	49.4	48.5	47.1	44.4	40.5	39.8	41.3	40.7
5 to 14 weeks	30.9	30.8	31.4	32.2	31.4	31.6	31.7	32.4	33.7	32.7	30.6	29.7	31.4
15 weeks and over	23.2	21.4	21.0	21.2	20.4	19.1	19.8	20.5	21.9	26.8	29.6	29.0	27.9
15 to 26 weeks	12.2	11.1	12.1	12.0	11.5	10.8	11.3	12.1	12.7	15.6	15.6	13.2	13.7
27 weeks and over	11.0	10.2	8.9	9.2	8.8	8.3	8.5	8.4	9.2	11.3	13.9	15.9	14.2

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

Sex and age	1978			1979				1980				1981	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over	6.0	5.9	5.9	5.8	5.7	5.7	5.9	6.2	7.3	7.5	7.5	7.4	7.4
16 to 19 years	15.9	16.1	16.3	16.0	16.0	16.0	16.2	16.4	17.9	18.4	18.3	19.1	19.2
16 to 17 years	18.7	19.3	19.4	18.6	18.4	17.3	18.0	18.5	20.1	20.9	20.7	21.3	22.1
18 to 19 years	14.1	13.6	13.9	14.1	14.4	15.0	14.8	14.9	16.5	16.6	16.5	17.7	17.6
20 to 24 years	9.4	9.3	8.9	8.9	8.7	9.1	9.4	10.0	12.0	12.1	12.1	11.8	12.4
25 years and over	4.0	4.0	3.9	4.0	3.8	3.9	4.0	4.3	5.2	5.5	5.4	5.2	5.2
25 to 54 years	4.2	4.2	4.2	4.2	4.0	4.1	4.3	4.6	5.6	5.9	5.9	5.6	5.5
55 years and over	3.1	3.1	3.0	3.0	3.0	3.0	2.9	3.0	3.3	3.4	3.4	3.6	3.4
Males, 16 years and over	5.1	5.0	5.1	5.1	4.9	5.0	5.3	5.7	7.2	7.6	7.4	7.1	7.1
16 to 19 years	15.1	15.3	16.2	16.3	15.4	15.8	15.7	15.8	18.3	19.4	19.5	20.0	19.8
16 to 17 years	18.4	18.7	19.9	19.3	17.8	16.8	17.6	17.9	20.6	21.9	21.5	22.1	23.2
18 to 19 years	12.8	12.4	13.2	14.1	13.9	14.9	14.0	14.4	16.9	17.5	17.9	18.6	17.9
20 to 24 years	8.7	8.6	8.6	8.4	8.1	8.6	9.1	10.5	13.1	13.4	13.2	12.8	13.4
25 years and over	3.3	3.2	3.2	3.3	3.1	3.3	3.5	3.8	5.0	5.4	5.0	4.8	4.8
25 to 54 years	3.3	3.3	3.4	3.4	3.2	3.3	3.7	4.0	5.3	5.8	5.5	5.1	5.1
55 years and over	3.2	2.9	2.8	2.9	2.9	3.0	2.8	3.0	3.4	3.6	3.3	3.3	3.3
Females, 16 years and over	7.2	7.3	6.9	6.9	6.8	6.7	6.8	6.9	7.4	7.5	7.7	7.7	7.7
16 to 19 years	16.9	17.0	16.5	15.7	16.6	16.3	16.8	17.1	17.4	17.3	16.9	18.2	18.6
16 to 17 years	19.1	20.0	18.8	17.8	19.1	18.0	18.4	19.2	19.5	19.7	19.8	20.3	20.7
18 to 19 years	15.4	14.8	14.7	14.1	15.0	15.1	15.7	15.5	16.1	15.7	15.0	16.6	17.3
20 to 24 years	10.4	10.1	9.3	9.4	9.4	9.7	9.7	9.4	10.7	10.4	10.8	10.6	11.2
25 years and over	5.1	5.2	4.9	5.0	4.8	4.7	4.8	5.0	5.5	5.6	5.9	5.8	5.7
25 to 54 years	5.5	5.5	5.3	5.4	5.2	5.1	5.2	5.4	6.0	6.1	6.3	6.1	6.2
55 years and over	3.1	3.4	3.3	3.3	3.1	3.2	3.1	3.0	3.2	3.2	3.6	4.0	3.4

HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES

A-50. Unemployed persons by reason for unemployment, seasonally adjusted

[Numbers in thousands]

Reason for unemployment	1978			1979				1980				1981	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	2,500	2,412	2,449	2,497	2,396	2,553	2,786	3,040	4,071	4,357	4,232	3,863	4,041
On layoff	643	676	718	796	763	828	974	1,098	1,716	1,758	1,538	1,274	1,338
Other job losers	1,857	1,736	1,731	1,701	1,633	1,725	1,812	1,942	2,355	2,598	2,693	2,589	2,702
Job leavers	831	848	853	882	857	848	829	814	907	870	860	885	909
Reentrants	1,762	1,846	1,806	1,759	1,746	1,770	1,755	1,806	1,906	1,865	1,926	2,016	2,033
New entrants	865	861	846	833	804	750	800	818	832	875	879	971	960
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	42.0	40.4	41.1	41.8	41.3	43.1	45.1	46.9	52.8	54.7	53.6	49.9	50.9
On layoff	10.8	11.3	12.1	13.3	13.1	14.0	15.8	17.0	22.2	22.1	19.5	16.5	16.9
Other job losers	31.2	29.1	29.1	28.5	28.1	29.1	29.4	30.0	30.5	32.6	34.1	33.5	34.0
Job leavers	13.9	14.2	14.3	14.8	14.8	14.3	13.4	12.6	11.8	10.9	10.9	11.4	11.4
Reentrants	29.6	30.9	30.3	29.5	30.1	29.9	28.4	27.9	24.7	23.4	24.4	26.1	25.6
New entrants	14.5	14.4	14.2	13.9	13.9	12.7	13.0	12.6	10.8	11.0	11.1	12.6	12.1
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.5	2.4	2.4	2.4	2.3	2.5	2.7	2.9	3.9	4.1	4.0	3.7	3.8
On layoff .....	.8	.8	.8	.9	.8	.8	.8	.8	.9	.8	.8	.8	.9
Other job losers	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.9	1.9
Job leavers .....	.9	.9	.8	.8	.8	.7	.8	.8	.8	.8	.8	.9	.9

A-51. Employed persons by sex and age, seasonally adjusted

[In thousands]

Sex and age	1978			1979				1980				1981	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over	94,412	94,774	95,581	96,359	96,574	97,282	97,572	97,713	97,040	97,061	97,276	98,012	98,868
16 to 19 years	8,026	8,100	8,032	8,096	7,993	7,900	7,952	7,859	7,627	7,477	7,443	7,377	7,256
16 to 17 years	3,299	3,334	3,282	3,332	3,255	3,219	3,279	3,179	3,049	2,965	2,928	2,924	2,824
18 to 19 years	4,708	4,783	4,761	4,760	4,716	4,685	4,683	4,680	4,559	4,528	4,522	4,440	4,411
20 to 24 years	13,474	13,602	13,736	13,884	13,899	13,927	13,856	13,782	13,545	13,544	13,607	13,690	13,664
25 years and over	72,710	73,063	73,809	74,390	74,683	75,456	75,755	76,082	75,872	76,060	76,208	76,941	77,955
25 to 54 years	58,538	58,920	59,576	60,003	60,378	61,113	61,388	61,720	61,546	61,723	62,056	62,726	63,578
55 years and over	14,166	14,153	14,244	14,382	14,292	14,347	14,375	14,369	14,311	14,336	14,157	14,203	14,375
Males, 16 years and over	55,462	55,657	55,953	56,356	56,445	56,640	56,572	56,526	55,855	55,674	55,899	56,147	56,477
16 to 19 years	4,293	4,329	4,270	4,274	4,253	4,214	4,212	4,216	4,045	3,898	3,894	3,902	3,794
16 to 17 years	1,781	1,795	1,742	1,776	1,763	1,746	1,759	1,747	1,642	1,569	1,569	1,563	1,468
18 to 19 years	2,501	2,552	2,535	2,492	2,475	2,472	2,462	2,471	2,391	2,346	2,329	2,330	2,314
20 to 24 years	7,336	7,379	7,448	7,516	7,541	7,561	7,518	7,430	7,232	7,170	7,203	7,238	7,219
25 years and over	43,022	43,954	44,235	44,567	44,638	44,873	44,844	44,881	44,569	44,625	44,800	45,008	45,445
25 to 54 years	35,088	35,217	35,414	35,717	35,874	36,046	36,051	36,072	35,819	35,897	36,112	36,299	36,741
55 years and over	8,738	8,739	8,817	8,853	8,768	8,829	8,783	8,812	8,757	8,730	8,676	8,699	8,725
Females, 16 years and over	38,751	39,117	39,628	40,003	40,130	40,642	41,000	41,192	41,185	41,387	41,376	41,865	42,390
16 to 19 years	3,732	3,771	3,762	3,822	3,740	3,685	3,740	3,642	3,582	3,580	3,549	3,476	3,462
16 to 17 years	1,518	1,539	1,540	1,556	1,492	1,473	1,518	1,432	1,408	1,396	1,359	1,361	1,356
18 to 19 years	2,207	2,230	2,225	2,269	2,241	2,213	2,231	2,210	2,168	2,182	2,193	2,109	2,096
20 to 24 years	6,138	6,223	6,288	6,368	6,358	6,366	6,338	6,351	6,313	6,374	6,404	6,452	6,445
25 years and over	28,389	29,109	29,574	29,823	30,045	30,583	30,911	31,201	31,303	31,435	31,408	31,933	32,510
25 to 54 years	23,451	23,703	24,162	24,286	24,504	25,067	25,337	25,647	25,728	25,826	25,944	26,427	26,837
55 years and over	5,428	5,415	5,428	5,528	5,524	5,519	5,592	5,558	5,554	5,606	5,480	5,504	5,651

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-52. Employed persons by selected social and economic categories, seasonally adjusted

[In thousands]

Category	1978			1979				1980				1981	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
CHARACTERISTIC													
Total, 16 years and over	94,212	94,774	95,581	96,359	96,574	97,282	97,572	97,718	97,040	97,061	97,276	98,012	98,868
Married men, spouse present	38,643	38,716	38,909	39,152	39,042	39,253	38,921	38,749	38,263	38,021	38,180	38,220	38,408
Married women, spouse present	21,755	21,920	22,271	22,483	22,524	22,901	22,991	23,142	23,123	23,090	23,040	23,407	23,708
OCCUPATION													
White-collar workers	46,970	47,332	47,975	48,729	49,149	49,594	49,896	50,363	50,643	51,135	51,105	51,680	51,909
Professional and technical	14,203	14,255	14,514	14,904	15,053	15,090	15,164	15,395	15,583	15,669	15,818	15,868	15,833
Managers and administrators, except farm	10,104	10,109	10,122	10,366	10,459	10,531	10,613	10,785	10,850	11,038	11,001	11,472	11,293
Sales workers	5,934	5,960	6,035	6,053	6,142	6,163	6,285	6,231	6,055	6,195	6,202	6,252	6,349
Clerical workers	16,729	17,008	17,304	17,406	17,496	17,710	17,835	17,952	18,154	18,232	18,083	18,087	18,434
Blue-collar workers	31,611	31,690	31,913	32,090	31,942	32,188	32,332	31,669	30,788	30,315	30,481	30,459	31,151
Craft and kindred workers	12,308	12,498	12,600	12,819	12,827	12,924	12,943	12,755	12,540	12,413	12,415	12,432	12,616
Operatives, except transport	10,966	10,909	10,970	10,944	10,821	10,972	10,886	10,632	10,354	10,179	10,217	10,303	10,561
Transport equipment operatives	3,533	3,514	3,600	3,595	3,626	3,625	3,599	3,566	3,461	3,422	3,425	3,348	3,409
Nonfarm laborers	4,805	4,768	4,744	4,732	4,667	4,567	4,504	4,715	4,433	4,300	4,424	4,375	4,565
Service workers	12,845	12,862	12,960	12,801	12,827	12,759	12,952	12,985	12,966	12,963	12,920	13,098	13,133
Farm workers	2,790	2,822	2,770	2,750	2,662	2,706	2,598	2,704	2,679	2,690	2,756	2,693	2,730
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,425	1,433	1,423	1,401	1,409	1,409	1,431	1,420	1,381	1,353	1,397	1,380	1,455
Self-employed workers	1,617	1,616	1,598	1,572	1,539	1,597	1,610	1,604	1,617	1,653	1,536	1,614	1,650
Unpaid family workers	300	321	302	317	294	309	301	294	286	295	318	307	260
Nonagricultural industries:													
Wage and salary workers	84,092	84,623	85,435	86,094	86,288	86,686	87,396	87,226	86,627	86,439	86,581	87,410	88,269
Government	15,253	15,266	15,343	15,296	15,385	15,362	15,428	15,534	15,724	15,608	15,534	15,671	15,533
Private industries	68,839	69,357	70,091	70,799	70,903	71,324	71,568	71,693	70,903	70,831	70,947	71,740	72,735
Private households	1,401	1,357	1,306	1,296	1,202	1,239	1,225	1,160	1,184	1,184	1,134	1,203	1,184
Other industries	67,437	68,000	68,785	69,503	69,700	70,086	70,443	70,533	69,719	69,647	69,813	70,537	71,552
Self-employed workers	6,325	6,248	6,396	6,522	6,591	6,733	6,762	6,803	6,743	6,886	6,974	6,886	6,929
Unpaid family workers	481	461	463	467	465	466	419	392	405	415	406	382	338
PERSONS AT WORK¹													
Nonagricultural industries	85,950	86,106	86,750	87,476	87,577	88,826	88,707	88,815	88,003	87,957	88,550	89,508	89,566
Full-time schedules	70,577	71,041	71,497	72,148	72,298	73,183	72,969	72,839	71,647	71,427	72,155	72,876	73,083
Part time for economic reasons	3,271	3,242	3,155	3,230	3,266	3,228	3,412	3,491	4,016	4,137	4,205	4,282	3,995
Usually work full time	1,255	1,291	1,243	1,267	1,268	1,326	1,447	1,486	1,804	1,735	1,651	1,653	1,504
Usually work part time	2,016	1,951	1,912	1,964	1,998	1,902	1,965	2,005	2,212	2,403	2,554	2,629	2,490
Part time for noneconomic reasons	12,103	11,823	12,098	12,098	12,013	12,415	12,327	12,484	12,340	12,393	12,190	12,350	12,488

¹ Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, illness, or industrial dispute.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Reason, sex, and race	1978			1979				1980				1981	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
TOTAL													
Total not in labor force	58,428	58,482	58,396	58,242	58,803	58,602	58,850	59,999	59,111	59,493	59,906	59,820	59,377
Do not want job now	53,085	52,826	53,071	53,282	53,552	52,835	53,574	53,573	53,851	54,231	54,521	53,998	54,320
Current activity:													
Going to school	6,201	5,919	5,991	5,949	5,939	5,846	6,037	6,038	6,185	6,594	6,224	6,068	6,451
Ill, disabled	4,572	4,459	4,633	4,519	4,533	4,539	4,534	4,627	4,446	4,124	4,293	4,071	4,177
Keeping house	29,612	29,393	29,224	29,466	29,166	28,686	28,659	28,376	28,688	28,646	28,842	28,296	28,013
Retired	9,200	9,379	9,499	9,553	9,994	9,954	10,254	10,578	10,538	10,917	10,938	11,252	11,594
Other	3,500	3,676	3,724	3,795	3,921	3,809	4,090	3,954	3,994	3,950	4,224	4,311	4,085
Want a job now	5,289	5,339	5,283	5,252	5,193	5,437	5,333	5,548	5,431	5,605	5,586	5,905	5,568
Reason not looking:													
School attendance	1,316	1,425	1,339	1,360	1,388	1,503	1,478	1,453	1,461	1,517	1,466	1,521	1,502
Ill health, disability	749	698	742	739	695	760	785	771	728	759	710	817	742
Home responsibilities	1,245	1,219	1,222	1,221	1,237	1,253	1,245	1,335	1,195	1,235	1,179	1,290	1,246
Think cannot get job	842	850	787	713	814	729	766	949	921	961	1,055	1,115	1,018
Job-market factors	542	603	494	492	518	525	465	603	626	669	597	876	703
Personal factors	301	247	294	221	296	204	301	345	294	292	358	239	316
Other reasons ¹	1,137	1,147	1,192	1,219	1,059	1,191	1,058	1,040	1,127	1,133	1,176	1,162	1,059
Males													
Total not in labor force	16,583	16,735	16,687	16,602	16,947	16,937	17,220	17,296	17,344	17,607	17,795	17,947	17,811
Do not want job now	14,865	15,050	14,954	14,996	15,361	15,174	15,482	15,570	15,663	15,942	16,081	15,925	16,301
Want a job now	1,660	1,679	1,672	1,671	1,555	1,780	1,731	1,710	1,753	1,825	1,827	1,921	1,771
Reason not looking:													
School attendance	647	711	690	681	686	775	733	699	745	765	720	795	746
Ill health, disability	337	322	333	356	276	346	355	324	338	338	307	379	319
Think cannot get job	312	284	296	276	272	281	291	347	319	367	370	372	399
Other reasons ¹	364	362	352	358	321	377	353	340	351	355	430	374	306
Females													
Total not in labor force	41,845	41,747	41,709	41,640	41,856	41,655	41,630	41,702	41,769	41,886	42,111	41,873	41,566
Do not want job now	38,220	37,776	38,117	38,286	38,191	37,661	38,092	33,003	38,188	38,288	38,441	38,073	38,018
Want a job now	3,629	3,660	3,611	3,581	3,638	3,557	3,602	3,838	3,678	3,780	3,759	3,984	3,797
Reason not looking:													
School attendance	568	714	649	679	702	727	746	754	716	751	746	726	756
Ill health, disability	412	375	409	384	419	414	430	447	390	421	403	437	423
Home responsibilities	1,245	1,219	1,222	1,221	1,237	1,253	1,245	1,335	1,195	1,235	1,179	1,290	1,246
Think cannot get job	531	566	491	437	542	448	475	602	594	594	635	743	619
Other reasons	773	785	840	861	738	815	705	700	776	778	746	788	753
White													
Total not in labor force	51,066	51,079	50,899	50,733	51,201	50,382	51,122	51,138	51,182	51,594	51,870	51,709	51,219
Do not want job now	47,174	46,893	46,855	46,852	47,292	46,826	46,973	46,874	47,198	47,545	47,744	47,198	47,332
Want a job now	3,983	4,201	3,928	3,982	3,934	4,192	4,342	4,259	4,094	4,139	4,124	4,328	4,022
Reason not looking:													
School attendance	962	1,156	982	1,001	971	1,153	1,113	1,051	1,087	1,084	1,059	1,095	1,039
Ill health, disability	534	519	523	536	505	529	527	559	533	514	513	574	500
Home responsibilities	967	955	914	942	952	972	985	1,104	940	957	907	967	964
Think cannot get job	577	580	544	516	578	534	551	673	611	681	586	756	676
Other reasons	943	991	966	988	929	1,004	866	871	923	903	950	936	842
Black and other													
Total not in labor force	7,350	7,401	7,478	7,520	7,593	7,539	7,711	7,870	7,918	7,912	8,036	8,169	8,140
Do not want job now	6,051	6,164	6,156	6,236	6,338	6,345	6,460	6,544	6,581	6,449	6,642	6,558	6,602
Want a job now	1,277	1,201	1,316	1,281	1,217	1,309	1,236	1,322	1,315	1,526	1,402	1,642	1,538
Reason not looking:													
School attendance	340	313	359	362	402	385	359	400	357	461	406	427	458
Ill health, disability	222	170	206	215	195	223	236	228	205	228	187	270	253
Home responsibilities	261	269	306	290	266	295	258	243	239	285	269	342	266
Think cannot get job	252	279	234	211	216	204	197	296	292	293	354	395	325
Other reasons	202	170	211	203	138	202	176	155	221	258	186	209	237

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

HOUSEHOLD DATA QUARTERLY AVERAGES

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

[In thousands]

Reason and sex	Total		Age								
			16 to 19 years		20 to 24 years		25 to 59 years		60 years and over		
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	
TOTAL											
Total not in labor force	59,302	59,597	6,890	6,885	4,530	4,524	21,947	21,551	25,935	26,636	
Do not want a job now	53,521	53,691	5,072	5,055	3,494	3,350	19,457	19,067	25,482	26,216	
Current activity:											
Going to school	5,551	5,547	3,693	3,644	1,281	1,286	556	598	18	20	
Ill, disabled	4,496	4,225	31	25	103	111	2,285	2,138	2,076	1,948	
Keeping house	29,065	28,394	528	550	1,660	1,535	14,421	14,072	12,455	12,236	
Retired	10,553	11,597	--	--	--	--	190	226	10,363	11,370	
Other	3,856	3,928	820	836	451	418	2,005	2,033	580	642	
Want a job now	5,780	5,903	1,818	1,829	1,034	1,173	2,487	2,479	443	420	
Reason not looking:											
School attendance	1,928	1,987	1,336	1,381	397	419	188	185	8	2	
Ill health, disability	727	742	29	35	33	59	524	513	141	136	
Home responsibilities	1,148	1,186	83	45	287	315	745	801	33	23	
Think cannot get job	902	996	186	193	148	161	448	503	121	140	
Job-market factors	635	707	119	137	124	122	335	376	54	74	
Personal factors	268	289	67	57	23	39	112	129	66	64	
Other reasons ¹	1,075	992	184	175	169	219	582	477	140	119	
Males											
Total not in labor force	17,297	17,768	3,056	3,116	1,272	1,348	3,312	3,299	9,656	10,005	
Do not want a job now	15,260	15,742	2,149	2,197	931	990	2,772	2,763	9,408	9,793	
Current activity:											
Going to school	2,673	2,736	1,757	1,761	661	680	255	288	2	6	
Ill, disabled	2,411	2,218	9	17	45	60	1,291	1,172	1,065	970	
Keeping house	261	264	5	10	5	9	62	92	189	155	
Retired	7,893	8,385	--	--	--	--	155	189	7,738	8,195	
Other	2,022	2,139	378	409	220	241	1,009	1,022	414	467	
Want a job now	2,036	2,026	906	920	341	358	541	535	249	213	
Reason not looking:											
School attendance	1,014	997	733	710	194	197	86	91	--	--	
Ill health, disability	350	328	17	19	14	35	234	202	86	72	
Think cannot get job	312	388	79	118	67	53	95	135	71	82	
Other reasons ¹	360	313	77	73	66	73	126	107	92	59	
Females											
Total not in labor force	42,005	41,828	3,834	3,769	3,259	3,176	18,634	18,252	16,279	16,631	
Do not want a job now	38,260	37,953	2,921	2,860	2,566	2,362	16,690	16,307	16,084	16,423	
Current activity:											
Going to school	2,877	2,812	1,936	1,883	620	607	304	311	17	12	
Ill, disabled	2,086	2,007	22	9	59	51	994	966	1,011	978	
Keeping house	28,804	28,131	522	541	1,656	1,527	14,361	13,982	12,266	12,083	
Retired	2,660	3,213	--	--	--	--	35	37	2,625	3,175	
Other	1,833	1,790	441	427	231	177	996	1,011	165	175	
Want a job now	3,745	3,875	912	910	692	813	1,944	1,945	195	208	
Reason not looking:											
School attendance	914	989	604	671	203	222	100	94	8	2	
Ill health, disability	377	414	12	16	19	24	290	311	55	65	
Home responsibilities	1,148	1,186	83	45	287	315	745	801	33	23	
Think cannot get job	591	608	106	75	81	106	353	369	50	58	
Other reasons ¹	715	678	107	103	102	146	456	370	49	60	

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

NOTE: Detail in tables A-54, A-55, and A-57 may not add to not-in-labor-force totals because of differences in the weighting patterns used in aggregating these data.

HOUSEHOLD DATA QUARTERLY AVERAGES

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

(In thousands)

Reason and race	Total		Age						Sex			
			16 to 24 years		25 to 59 years		60 years and over		Males		Females	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
WHITE												
Total not in labor force	51,313	51,379	8,956	8,905	18,954	18,447	23,403	24,026	14,594	14,951	36,720	36,428
Do not want a job now	46,955	47,104	6,828	6,773	17,095	16,651	23,034	23,678	13,060	13,496	33,895	33,608
Current activity:												
Going to school	4,332	4,370	3,884	3,913	434	450	14	5	2,125	2,178	2,207	2,192
Ill, disabled	3,553	3,316	105	108	1,762	1,618	1,685	1,593	1,927	1,782	1,626	1,534
Keeping house	26,392	25,802	1,870	1,773	13,116	12,737	11,410	11,292	226	233	26,166	25,569
Retired	9,587	10,413	--	--	170	201	9,417	10,210	7,157	7,593	2,430	2,820
Other	3,091	3,203	969	979	1,613	1,645	508	578	1,625	1,710	1,466	1,493
Want a job now	4,358	4,274	2,130	2,132	1,858	1,795	370	346	1,534	1,454	2,824	2,820
Reason not looking:												
School attendance	1,476	1,417	1,354	1,311	121	105	1	2	772	723	704	694
Ill health, disability	523	492	48	75	362	324	114	91	263	222	260	270
Home responsibilities	897	917	271	243	601	650	25	23	--	--	897	917
Think cannot get job	596	657	174	211	318	329	104	117	200	253	396	404
Other reasons ¹	866	791	283	292	456	387	126	113	299	256	567	535
BLACK AND OTHER												
Total not in labor force	7,989	8,218	2,464	2,504	2,993	3,105	2,532	2,610	2,703	2,817	5,286	5,401
Do not want a job now	6,565	6,588	1,738	1,633	2,369	2,424	2,461	2,535	2,200	2,244	4,365	4,344
Current activity:												
Going to school	1,218	1,178	1,090	1,018	126	148	5	13	548	558	670	620
Ill, disabled	944	909	29	29	522	525	391	354	484	436	460	473
Keeping house	2,673	2,592	317	312	1,309	1,338	1,047	946	35	31	2,638	2,561
Retired	966	1,184	--	--	20	24	946	1,159	736	791	230	393
Other	764	725	302	274	392	389	72	63	397	428	367	297
Want a job now	1,423	1,628	725	871	625	684	70	74	502	572	921	1,056
Reason not looking:												
School attendance	452	569	380	490	65	80	6	--	242	274	210	295
Ill health, disability	204	250	15	18	163	187	27	46	87	106	117	144
Home responsibilities	251	270	100	118	142	151	8	--	--	--	251	270
Think cannot get job	307	339	160	141	128	175	17	22	112	135	195	204
Other reasons ¹	209	200	70	104	127	91	12	6	61	57	148	143

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

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

(In thousands)

Reason and sex	2nd Quarter 1981						
	Total	Age				Race	
		16 to 19 years	20 to 24 years	25 to 59 years	60 years and over	White	Black and other
TOTAL							
Personal factors:							
Employers think too young or old	106	22	--	31	53	96	10
Lacks education or training	100	17	20	62	1	60	40
Other personal handicap	83	18	19	36	10	65	18
Job-market factors:							
Could not find job	425	92	93	208	33	252	174
Thinks no job available	282	45	29	168	41	185	97
Males							
Personal factors:							
Employers think too young or old	59	17	--	10	32	49	10
Lacks education or training	14	5	3	5	1	7	7
Other personal handicap	33	10	4	14	7	25	8
Job-market factors:							
Could not find job	193	60	41	76	17	99	94
Thinks no job available	89	26	5	32	26	73	16
Females							
Personal factors:							
Employers think too young or old	47	4	--	22	21	47	--
Lacks education or training	86	12	16	58	--	53	33
Other personal handicap	49	8	15	22	5	40	10
Job-market factors:							
Could not find job	233	33	52	132	16	153	80
Thinks no job available	193	18	24	135	16	112	81

HOUSEHOLD DATA QUARTERLY AVERAGES

A-57. Most recent work experience of persons not in labor force and reason for leaving last job for those who worked during the previous 12 months by sex, age, and race

[Numbers in thousands]

Most recent work experience, reason for leaving last job, and sex	Total		Age						Race			
			16 to 24 years		25 to 59 years		60 years and over		White		Black and other	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
Total, not in labor force	59,302	59,597	11,420	11,409	21,947	21,551	25,935	26,636	51,313	51,379	7,989	8,218
Never worked	9,790	9,587	5,047	5,076	2,297	2,149	2,446	2,362	7,741	7,458	2,049	2,129
Last worked over 5 years ago	29,940	30,530	3,328	3,349	10,985	10,812	18,627	19,368	26,624	27,070	3,316	3,461
Last worked 1 to 5 years ago	9,953	10,379	1,622	1,873	4,829	4,952	3,502	3,555	8,652	8,938	1,301	1,441
Left job during previous 12 months	9,617	9,100	4,422	4,110	3,836	3,637	1,359	1,352	8,295	7,913	1,322	1,187
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	40.7	39.9	54.6	53.5	36.6	36.3	6.8	8.0	41.8	40.7	33.5	34.5
Ill health, disability	8.8	8.2	1.8	2.2	14.7	12.3	14.7	15.7	7.4	7.7	17.2	12.0
Retirement, old age	8.8	8.6	--	--	3.7	3.8	51.6	48.0	9.4	9.6	4.5	2.5
Economic reasons	21.1	22.5	18.4	18.5	25.1	27.8	18.5	19.9	20.9	21.6	22.1	27.7
End of seasonal job	7.2	8.0	7.4	7.7	7.5	9.3	5.7	5.7	7.1	7.8	8.1	9.4
Slack work	7.3	7.6	5.4	5.4	9.8	10.6	6.6	6.4	7.3	7.1	7.3	11.0
End of temporary job	6.5	6.8	5.6	5.4	7.8	7.9	6.8	7.8	6.5	6.7	6.7	7.3
All other reasons	20.8	20.8	25.2	25.8	20.0	19.8	8.4	8.4	20.4	20.5	22.7	23.3
Males, not in labor force	17,297	17,768	4,328	4,464	3,312	3,299	9,656	10,005	14,594	14,951	2,703	2,817
Never worked	2,316	2,322	2,013	2,016	273	275	31	32	1,609	1,641	707	681
Last worked over 5 years ago	8,276	8,547	39	52	1,352	1,338	6,884	7,158	7,192	7,439	1,084	1,109
Last worked 1 to 5 years ago	3,318	3,542	367	531	979	959	1,973	2,051	2,871	3,036	447	506
Left job during previous 12 months	3,386	3,356	1,910	1,866	708	726	769	763	2,921	2,835	465	521
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	32.7	32.9	51.6	49.3	13.6	19.5	3.1	5.9	33.3	32.9	28.8	33.0
Ill health, disability	10.8	10.6	1.6	3.2	31.7	26.0	14.5	14.1	10.0	9.7	16.1	15.5
Retirement, old age	14.9	15.6	--	--	8.6	12.2	57.4	57.0	16.0	17.6	7.9	4.6
Economic reasons	19.6	19.4	18.1	19.6	25.5	20.8	18.2	17.3	18.5	18.8	26.6	22.6
End of seasonal job	6.7	7.9	6.7	9.4	6.8	6.1	6.8	5.9	6.9	8.1	5.6	6.5
Slack work	7.2	6.6	5.1	5.3	13.9	11.3	6.4	5.0	6.8	5.8	10.1	10.6
End of temporary job	5.7	4.9	6.3	4.9	4.8	3.4	5.1	6.4	4.8	4.8	10.9	5.6
All other reasons	22.0	21.4	28.7	27.9	20.7	21.5	6.8	5.7	22.2	21.0	20.6	24.2
Females, not in labor force	42,005	41,828	7,093	6,945	18,634	18,252	16,279	16,631	36,720	36,428	5,286	5,401
Never worked	7,474	7,265	3,034	3,060	2,024	1,874	2,415	2,330	6,132	5,817	1,342	1,448
Last worked over 5 years ago	21,664	21,983	290	298	9,632	9,475	11,743	12,210	19,432	19,631	2,232	2,352
Last worked 1 to 5 years ago	6,636	6,837	1,255	1,342	3,851	3,993	1,530	1,502	5,781	5,902	854	935
Left job during previous 12 months	6,231	5,744	2,513	2,245	3,127	2,911	590	589	5,374	5,078	857	666
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	45.0	43.9	56.9	57.1	41.8	40.4	11.5	10.8	46.5	45.0	36.0	35.6
Ill health, disability	7.6	6.8	1.9	1.4	10.8	8.9	15.1	17.5	6.0	6.5	17.8	9.2
Retirement, old age	5.4	4.6	--	--	2.5	1.7	43.8	36.4	5.9	5.1	2.7	.9
Economic reasons	21.8	24.2	18.7	17.6	24.9	29.6	19.0	23.1	22.2	23.2	19.7	31.7
End of seasonal job	7.5	8.1	8.0	6.3	7.7	10.1	4.2	5.4	7.2	7.7	9.4	11.6
Slack work	7.4	8.3	5.7	5.6	8.9	10.4	6.9	8.1	7.6	7.9	5.8	11.4
End of temporary job	7.0	7.8	5.1	5.7	8.4	9.1	7.8	9.5	7.4	7.7	4.4	8.7
All other reasons	20.1	20.4	22.6	24.0	19.9	19.4	10.7	12.2	19.5	20.2	23.8	22.6

A-58. Work-seeking intentions of persons not in labor force and work history of those who intend to seek work within the next 12 months by sex, age, and race

[In thousands]

Work-seeking intentions, work history, and sex	Total		Age						Race			
			16 to 24 years		25 to 59 years		60 years and over		White		Black and other	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
Total	50,444	50,899	6,542	6,539	18,409	18,212	25,494	26,148	44,361	44,620	6,083	6,279
Do not intend to seek work	8,857	8,697	4,879	4,870	3,538	3,340	441	488	6,951	6,758	1,906	1,939
Intend to seek work in the next 12 months	1,845	1,838	1,631	1,697	209	140	5	2	1,276	1,253	569	586
Never worked	1,136	1,054	70	109	911	797	156	149	889	753	247	301
Last worked over 5 years ago	1,686	2,005	586	727	975	1,106	125	172	1,284	1,556	401	449
Last worked 1 to 5 years ago	4,190	3,799	2,593	2,337	1,441	1,297	155	165	3,501	3,196	689	603
Worked during previous 12 months												
Males	14,296	14,747	2,199	2,333	2,676	2,638	9,421	9,775	12,220	12,602	2,076	2,145
Do not intend to seek work	3,000	3,021	2,129	2,131	636	660	236	231	2,373	2,349	627	672
Intend to seek work in the next 12 months	765	780	720	753	44	27	--	--	532	553	233	227
Never worked	194	171	19	15	98	102	80	55	139	122	55	49
Last worked over 5 years ago	415	549	162	235	188	217	64	96	322	416	92	133
Last worked 1 to 5 years ago	1,626	1,522	1,227	1,129	306	313	92	81	1,379	1,258	247	264
Worked during previous 12 months												
Females	36,148	36,152	4,342	4,206	15,733	15,571	16,073	16,374	32,141	32,018	4,007	4,134
Do not intend to seek work	5,857	5,676	2,750	2,738	2,902	2,681	206	257	4,578	4,409	1,279	1,267
Intend to seek work in the next 12 months	1,080	1,059	911	943	165	114	5	2	744	700	336	359
Never worked	942	884	51	94	815	695	77	95	750	631	192	252
Last worked over 5 years ago	1,272	1,456	422	492	787	889	61	76	962	1,140	309	316
Last worked 1 to 5 years ago	2,564	2,277	1,365	1,209	1,135	982	63	86	2,122	1,938	442	339
Worked during previous 12 months												

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-59. Employment status of the noninstitutional population by sex, age, race, and Hispanic origin

[Numbers in thousands]

Employment status, sex, and age	Total		White		Black		Hispanic origin	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
TOTAL								
Civilian noninstitutional population	163,804	166,145	143,408	145,161	17,366	17,758	8,513	8,871
Civilian labor force	104,502	106,549	92,094	93,782	10,510	10,785	5,445	5,726
Percent of population	63.8	64.1	64.2	64.6	60.5	60.7	64.0	64.5
Employed	97,017	98,809	86,262	87,806	9,021	9,166	4,901	5,168
Agriculture	3,418	3,485	3,155	3,222	209	206	252	250
Nonagricultural industries	93,599	95,324	83,107	84,585	8,812	8,960	4,648	4,918
Unemployed	7,485	7,740	5,833	5,976	1,488	1,619	544	559
Unemployment rate	7.2	7.3	6.3	6.4	14.2	15.0	10.0	9.7
Not in labor force	59,302	59,597	51,313	51,379	6,856	6,973	3,069	3,145
Males, 20 years and over								
Civilian noninstitutional population	69,430	70,683	61,531	62,532	6,705	6,874	3,495	3,707
Civilian labor force	55,189	56,031	49,263	49,964	4,999	5,107	2,981	3,155
Percent of population	79.5	79.3	80.1	79.9	74.6	74.3	85.3	85.1
Employed	51,864	52,723	46,617	47,356	4,390	4,465	2,728	2,890
Agriculture	2,383	2,399	2,179	2,199	165	159	179	190
Nonagricultural industries	49,481	50,323	44,438	45,157	4,225	4,305	2,549	2,700
Unemployed	3,325	3,308	2,647	2,608	608	641	254	265
Unemployment rate	6.0	5.9	5.4	5.2	12.2	12.6	8.5	8.4
Not in labor force	14,241	14,652	12,238	12,538	1,706	1,768	514	552
Females, 20 years and over								
Civilian noninstitutional population	78,094	79,497	68,175	69,253	8,434	8,653	3,875	4,029
Civilian labor force	39,923	41,438	34,445	35,742	4,647	4,816	1,891	2,027
Percent of population	51.1	52.1	50.5	51.6	55.1	55.7	48.8	50.3
Employed	37,477	38,790	32,611	33,776	4,101	4,191	1,728	1,866
Agriculture	613	625	576	589	27	22	44	32
Nonagricultural industries	36,864	38,166	32,035	33,187	4,074	4,170	1,685	1,834
Unemployed	2,445	2,647	1,834	1,966	547	625	163	161
Unemployment rate	6.1	6.4	5.3	5.5	11.8	13.0	8.6	7.9
Not in labor force	38,171	38,060	33,731	33,511	3,787	3,836	1,984	2,002
Both sexes, 16-19 years								
Civilian noninstitutional population	16,281	15,965	13,731	13,406	2,227	2,231	1,143	1,134
Civilian labor force	9,391	9,080	8,387	8,075	864	862	572	543
Percent of population	57.7	56.9	61.1	60.2	38.8	38.6	50.0	47.9
Employed	7,676	7,295	7,034	6,674	530	510	445	411
Agriculture	422	461	431	433	17	25	30	28
Nonagricultural industries	7,254	6,834	6,603	6,241	513	485	415	384
Unemployed	1,715	1,785	1,352	1,401	334	352	127	132
Unemployment rate	18.3	19.7	16.1	17.4	38.6	40.9	22.3	24.3
Not in labor force	6,890	6,885	5,345	5,330	1,363	1,369	571	591

NOTE: The term "black" refers to black workers only. In the 1970 census, they constituted about 89 percent of the "black and other" population group. Data on persons of Hispanic ethnicity are

collected independently of racial data. In the 1970 census, approximately 96 percent of their population was white.

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

**A-60 Employment status of persons of Mexican, Puerto Rican, and Cuban origin
by sex and age**

(Numbers in thousands)

Employment status, sex, and age	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
TOTAL								
Civilian noninstitutional population	8,513	8,871	5,116	5,385	1,133	1,124	578	680
Civilian labor force	5,445	5,726	3,379	3,610	584	562	393	447
Percent of population	64.0	64.5	66.0	67.0	51.5	50.0	68.0	65.7
Employed	4,901	5,168	3,021	3,248	518	488	365	415
Agriculture	252	250	223	227	9	6	2	3
Nonagricultural industries	4,648	4,918	2,798	3,021	510	482	363	412
Unemployed	544	558	358	362	66	74	28	32
Unemployment rate	10.0	9.7	10.6	10.0	11.3	13.2	7.0	7.1
Not in labor force	3,069	3,145	1,737	1,775	548	562	186	233
Males, 20 years and over								
Civilian noninstitutional population	3,495	3,707	2,189	2,334	410	419	243	299
Civilian labor force	2,981	3,155	1,912	2,046	333	316	203	243
Percent of population	85.3	85.1	87.3	87.7	81.2	75.4	83.5	81.3
Employed	2,728	2,890	1,742	1,875	303	276	190	228
Agriculture	179	190	156	174	7	3	2	3
Nonagricultural industries	2,549	2,700	1,586	1,701	296	273	188	224
Unemployed	254	265	169	171	31	39	13	15
Unemployment rate	8.5	8.4	8.9	8.3	9.2	12.5	6.6	6.4
Not in labor force	514	552	277	288	76	103	40	56
Females, 20 years and over								
Civilian noninstitutional population	3,875	4,029	2,199	2,332	561	544	279	318
Civilian labor force	1,891	2,027	1,071	1,161	202	212	158	181
Percent of population	48.8	50.3	48.7	49.8	36.0	39.0	56.6	56.9
Employed	1,728	1,866	972	1,064	178	194	151	170
Agriculture	44	32	39	27	2	3	--	--
Nonagricultural industries	1,685	1,834	933	1,038	176	192	151	170
Unemployed	163	161	99	97	24	17	7	12
Unemployment rate	8.6	7.9	9.3	8.3	12.1	8.1	4.3	6.4
Not in labor force	1,984	2,002	1,128	1,171	359	333	121	136
Both sexes, 16-19 years								
Civilian noninstitutional population	1,143	1,134	728	719	163	161	56	64
Civilian labor force	572	543	396	403	49	35	32	23
Percent of population	50.0	47.9	54.4	56.0	30.1	21.7	(2)	35.9
Employed	445	411	307	309	38	17	24	18
Agriculture	30	28	28	26	--	--	--	--
Nonagricultural industries	415	384	279	282	38	17	24	18
Unemployed	127	132	89	95	11	18	8	4
Unemployment rate	22.3	24.3	22.6	23.5	(2)	(2)	(2)	(2)
Not in labor force	571	591	331	316	114	127	25	41

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

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

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-61. Employed persons by selected social and economic categories, race, and Hispanic origin

[In thousands]

Category	Total		White		Black and other		Hispanic origin	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
CHARACTERISTIC								
Total, 16 years and over	97,017	98,809	86,262	87,806	10,755	11,003	4,901	5,168
Males	56,004	56,609	50,399	50,907	5,605	5,702	3,003	3,134
Females	41,013	42,199	35,863	36,899	5,150	5,300	1,898	2,034
OCCUPATION								
White-collar workers	50,389	51,632	46,183	47,235	4,206	4,397	1,669	1,834
Professional and technical	15,569	15,825	14,187	14,369	1,383	1,456	383	431
Managers and administrators, except farm	10,727	11,160	10,197	10,583	530	578	314	329
Sales workers	6,017	6,299	5,713	5,995	304	305	197	197
Clerical workers	18,076	18,348	16,087	16,290	1,989	2,058	775	877
Blue-collar workers	30,836	31,176	26,993	27,309	3,843	3,866	2,232	2,318
Craft and kindred workers	12,554	12,628	11,537	11,577	1,017	1,051	653	657
Operatives, except transport	10,238	10,427	8,673	8,851	1,566	1,577	1,030	1,056
Transport equipment operatives	3,464	3,410	2,928	2,879	536	531	196	201
Nonfarm laborers	4,579	4,711	3,854	4,003	725	708	353	404
Service workers	13,003	13,171	10,502	10,632	2,501	2,539	787	812
Farm workers	2,790	2,830	2,584	2,630	205	200	213	203
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,462	1,533	1,261	1,336	200	197	226	213
Self-employed workers	1,629	1,659	1,576	1,596	53	62	23	32
Unpaid family workers	327	293	318	289	9	4	3	5
Nonagricultural industries:								
Wage and salary workers	86,362	87,978	76,331	77,694	10,031	10,284	4,384	4,655
Government	15,701	15,524	13,277	13,072	2,423	2,452	642	659
Private industries	70,661	72,454	63,054	64,622	7,608	7,832	3,743	3,996
Private households	1,176	1,173	795	805	382	368	95	82
Other industries	69,485	71,281	62,259	63,817	7,226	7,464	3,648	3,914
Self-employed workers	6,795	6,976	6,359	6,540	436	435	244	243
Unpaid family workers	442	370	416	351	26	19	20	21
FULL- AND PART-TIME STATUS ¹								
Full-time schedules	78,525	80,095	69,706	71,057	8,819	9,038	4,083	4,347
Part time for economic reasons	4,400	4,364	3,707	3,601	693	762	310	306
Part time for noneconomic reasons	14,093	14,350	12,849	13,148	1,244	1,202	508	515

¹ Employed persons with a job but not at work are distributed proportionately among the full- and part-time employed categories.

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-62. Employed persons of Mexican, Puerto Rican, and Cuban origin by selected social and economic categories

[In thousands]

Category	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
CHARACTERISTIC								
Total, 16 years and over	4,901	5,168	3,021	3,248	518	488	365	415
Males	3,003	3,134	1,941	2,063	330	285	201	239
Females	1,898	2,034	1,080	1,185	188	203	164	177
OCCUPATION								
White-collar workers	1,669	1,834	906	1,044	178	195	156	178
Professional and technical	383	431	185	238	48	48	33	38
Managers and administrators, except farm	314	329	165	183	37	28	32	42
Sales workers	197	197	100	114	15	13	24	20
Clerical workers	775	877	456	509	78	106	67	78
Blue-collar workers	2,232	2,318	1,440	1,552	263	217	169	181
Craft and kindred workers	653	657	427	448	52	51	52	53
Operatives, except transport	1,030	1,056	630	653	152	128	79	96
Transport equipment operatives	196	201	122	136	26	14	15	13
Nonfarm laborers	353	404	261	315	33	24	23	19
Service workers	787	812	484	463	73	74	41	54
Farm workers	213	203	191	189	5	1	1	2
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	226	213	206	200	8	4	--	2
Self-employed workers	23	32	15	24	1	2	1	1
Unpaid family workers	3	5	2	4	--	1	--	--
Nonagricultural industries:								
Wage and salary workers	4,384	4,655	2,659	2,893	491	461	331	371
Government	642	659	418	451	65	65	25	23
Private industries	3,743	3,996	2,241	2,442	426	397	306	348
Private households	95	82	50	42	6	4	1	1
Other industries	3,648	3,914	2,191	2,400	420	393	305	347
Self-employed workers	244	243	129	116	17	16	32	42
Unpaid family workers	20	21	10	11	1	3	2	--
FULL- AND PART-TIME STATUS²								
Full-time schedules	4,083	4,347	2,496	2,716	453	431	330	356
Part time for economic reasons	310	306	224	213	29	20	9	25
Part time for noneconomic reasons	508	515	301	319	36	36	27	35

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

² Employed persons with a job but not at work are distributed proportionately among the full- and part-time employed categories.

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-63. Employed persons by sex, age, race, and Hispanic origin

[In thousands]

Sex and age	Total		White		Black		Hispanic origin	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
Total, 16 years and over	97,017	98,809	86,262	87,806	9,021	9,166	4,901	5,168
16 to 19 years	7,676	7,295	7,034	6,674	530	510	445	411
16 to 17 years	3,062	2,833	2,825	2,611	191	177	159	140
18 to 19 years	4,614	4,462	4,209	4,064	339	333	285	272
20 to 24 years	13,553	13,664	12,019	12,146	1,304	1,285	837	907
25 years and over	75,789	77,850	67,209	68,986	7,187	7,371	3,619	3,851
25 to 54 years	61,474	63,477	54,218	55,967	6,039	6,199	3,264	3,448
55 years and over	14,315	14,372	12,991	13,019	1,147	1,173	355	402
Males, 16 years and over	56,004	56,609	50,399	50,907	4,693	4,744	3,003	3,134
16 to 19 years	4,140	3,887	3,782	3,551	303	279	275	244
16 to 17 years	1,699	1,524	1,561	1,393	115	108	98	85
18 to 19 years	2,441	2,363	2,222	2,158	189	172	178	159
20 to 24 years	7,295	7,284	6,484	6,515	688	652	502	553
25 years and over	44,569	45,438	40,132	40,840	3,702	3,813	2,226	2,338
25 to 54 years	35,813	36,720	32,089	32,868	3,098	3,179	1,988	2,074
55 years and over	8,756	8,718	8,043	7,972	604	635	237	264
Females, 16 years and over	41,013	42,199	35,863	36,899	4,328	4,422	1,898	2,034
16 to 19 years	3,536	3,409	3,252	3,123	227	230	169	168
16 to 17 years	1,363	1,310	1,264	1,217	77	69	62	55
18 to 19 years	2,173	2,099	1,988	1,906	150	161	108	112
20 to 24 years	6,257	6,380	5,534	5,631	616	633	336	354
25 years and over	31,220	32,411	27,077	28,145	3,484	3,558	1,392	1,513
25 to 54 years	25,660	26,757	22,129	23,099	2,941	3,020	1,274	1,375
55 years and over	5,559	5,654	4,948	5,046	543	538	118	138

A-64. Unemployment rates by sex, age, race, and Hispanic origin

Sex and age	Total		White		Black		Hispanic origin	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
Total, 16 years and over	7.2	7.3	6.3	6.4	14.2	15.0	10.0	9.7
16 to 19 years	18.3	19.7	16.1	17.4	38.6	40.9	22.3	24.3
16 to 17 years	21.0	23.0	18.7	20.4	43.3	47.7	26.7	28.4
18 to 19 years	16.3	17.4	14.3	15.2	35.6	36.5	19.5	22.0
20 to 24 years	11.8	12.2	10.3	10.5	23.1	25.7	12.5	13.8
25 years and over	5.0	5.0	4.4	4.4	9.6	10.0	7.6	6.8
25 to 54 years	5.4	5.3	4.8	3.8	10.2	10.8	7.8	6.8
55 years and over	3.2	3.3	2.9	3.0	6.4	5.6	5.9	6.9
Males, 16 years and over	7.0	7.0	6.3	6.2	14.1	14.9	9.9	9.8
16 to 19 years	18.1	19.6	16.4	17.3	35.0	40.2	21.9	23.3
16 to 17 years	20.5	23.1	18.6	20.5	38.5	44.8	26.6	29.4
18 to 19 years	16.4	17.2	14.7	15.1	32.7	37.0	19.0	19.7
20 to 24 years	12.6	13.0	11.6	11.5	21.7	25.3	13.1	15.2
25 years and over	4.8	4.7	4.3	4.1	10.1	9.9	7.4	6.6
25 to 54 years	5.2	5.0	4.6	4.4	10.5	10.5	7.4	6.5
55 years and over	3.4	3.3	3.0	2.9	8.3	6.9	7.1	7.7
Females, 16 years and over	7.3	7.6	6.4	6.6	14.2	15.1	10.1	9.7
16 to 19 years	18.4	19.7	15.9	17.4	42.9	41.6	22.9	25.6
16 to 17 years	21.6	22.9	18.8	20.4	49.2	51.6	26.9	26.8
18 to 19 years	16.3	17.5	13.9	15.4	39.0	36.0	20.3	25.0
20 to 24 years	10.7	11.2	8.7	9.2	24.6	26.0	11.5	11.6
25 years and over	5.2	5.4	4.6	4.7	9.0	10.2	7.9	7.0
25 to 54 years	5.6	6.4	5.0	5.0	9.9	11.2	8.3	7.2
55 years and over	3.1	3.3	2.9	3.2	4.2	4.3	3.3	4.8

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A-65. Unemployed persons by duration of unemployment, race, and Hispanic origin

[In thousands]

Weeks of unemployment	Total		White		Black and other		Hispanic origin	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
DURATION								
Total, 16 years and over	7,485	7,740	5,833	5,976	1,653	1,764	544	558
Less than 5 weeks	3,516	3,319	2,747	2,611	769	709	270	265
5 to 14 weeks	2,145	2,047	1,672	1,595	473	452	156	159
15 weeks and over	1,824	2,373	1,413	1,770	411	603	118	134
15 to 26 weeks	1,084	1,202	873	933	211	269	66	84
27 weeks and over	740	1,171	540	836	200	335	51	49
Average (mean) duration, in weeks	11.5	14.2	11.3	13.5	12.5	16.6	11.3	10.7
Median duration, in weeks	5.7	6.8	5.7	6.6	5.9	7.9	5.1	5.7
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	47.0	42.9	47.1	43.7	46.5	40.2	49.7	47.6
5 to 14 weeks	28.7	26.4	28.7	26.7	28.6	25.6	28.7	28.5
15 weeks and over	24.4	30.7	24.2	29.6	24.9	34.2	21.5	23.9
15 to 26 weeks	14.5	15.5	15.0	15.6	12.8	15.2	12.2	15.1
27 weeks and over	9.9	15.1	9.3	14.0	12.1	19.0	9.4	8.8

A-66. Unemployed persons by reason for unemployment, race, and Hispanic origin

[Numbers in thousands]

Reason for unemployment	Total		White		Black and other		Hispanic origin	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
NUMBER OF UNEMPLOYED								
Total, 16 years and over	7,485	7,740	5,833	5,976	1,653	1,764	544	558
Job losers	3,819	3,813	3,048	3,004	771	809	297	313
On layoff	1,519	1,206	1,273	1,027	246	178	91	90
Other job losers	2,300	2,608	1,776	1,977	525	631	207	222
Job leavers	838	840	677	694	161	146	59	62
Reentrants	1,907	2,035	1,446	1,524	461	511	114	114
New entrants	921	1,051	661	753	260	298	73	69
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	51.0	49.3	52.2	50.3	46.7	45.9	54.8	56.0
On layoff	20.3	15.6	21.8	17.2	14.9	10.1	16.7	16.2
Other job losers	30.7	33.7	30.4	33.1	31.8	35.8	38.1	39.9
Job leavers	11.2	10.9	11.6	11.6	9.7	8.3	10.8	11.1
Reentrants	25.5	26.3	24.8	25.5	27.9	29.0	21.0	20.5
New entrants	12.3	13.6	11.3	12.6	15.7	16.9	13.4	12.4
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	3.7	3.5	3.3	3.2	6.2	6.3	5.5	5.5
Job leavers8	.8	.7	.7	1.3	1.1	1.1	1.1
Reentrants	1.8	1.9	1.6	1.6	3.7	4.0	2.1	2.0
New entrants9	1.0	.7	.8	2.1	2.3	1.3	1.2

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A-67. Employment status of male Vietnam-era veterans and nonveterans by age

[Numbers in thousands]

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
			Total		Employed		Unemployed			
							Number		Percent of labor force	
II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	
VETERANS										
Total 25 years and over	8,232	8,525	7,827	8,086	7,372	7,645	455	442	5.8	5.5
25 to 29 years	7,255	7,323	6,986	7,044	6,556	6,635	429	409	6.1	5.8
30 to 34 years	1,742	1,516	1,636	1,416	1,475	1,281	161	135	9.8	9.5
35 to 39 years	3,589	3,368	3,481	3,258	3,294	3,081	186	177	5.4	5.4
40 years and over	1,924	2,439	1,869	2,371	1,787	2,273	82	98	4.4	4.1
Unemployed	977	1,202	842	1,042	816	1,010	26	32	3.1	3.1
NONVETERANS										
Total, 25 to 39 years	15,363	16,237	14,577	15,420	13,665	14,519	912	901	6.3	5.8
25 to 29 years	7,036	7,358	6,646	6,959	6,119	6,476	527	484	7.9	6.9
30 to 34 years	4,524	5,178	4,323	4,939	4,081	4,677	242	263	5.6	5.3
35 to 39 years	3,803	3,701	3,608	3,521	3,465	3,367	143	155	4.0	4.4

NOTE: Vietnam-era veterans are males who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are males who have never served in the Armed Forces; published data are limited to those 25 to 39 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population. Data for 20-to-24-year-old veterans are no longer shown on the table, because the group is rapidly disappearing (into the 25-29 age category) and the numbers remaining are not large enough to warrant their continued publication.

A-68. Employment status of male Vietnam-era veterans and nonveterans by age, race, and Hispanic origin

[Numbers in thousands]

Employment status and age	Veterans						Nonveterans					
	White		Black and other		Hispanic origin		White		Black and other		Hispanic origin	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
Total, 25 to 39 years:												
Civilian noninstitutional population	6,531	6,569	724	754	261	250	13,354	14,130	2,009	2,107	1,159	1,244
Civilian labor force	6,314	6,367	672	678	243	237	12,797	13,560	1,780	1,860	1,079	1,164
Employed	5,963	6,032	594	603	226	220	12,099	12,857	1,566	1,660	988	1,083
Unemployed	351	335	78	75	17	17	698	703	214	199	91	81
Unemployment rate	5.6	5.3	11.6	11.1	7.0	7.2	5.5	5.2	12.0	10.7	8.4	7.0
25 to 29 years												
Civilian noninstitutional population	1,525	1,304	217	212	84	76	6,172	6,467	864	891	494	534
Civilian labor force	1,436	1,235	200	181	70	70	5,882	6,168	764	791	457	500
Employed	1,311	1,131	164	150	66	64	5,471	5,781	648	694	409	463
Unemployed	125	104	36	31	4	6	411	387	116	97	48	37
Unemployment rate	8.7	8.4	18.0	17.1	5.7	8.6	7.0	6.3	15.2	12.3	10.5	7.4
30 to 34 years												
Civilian noninstitutional population	3,257	3,038	332	330	115	101	3,899	4,477	625	701	368	419
Civilian labor force	3,169	2,958	312	300	112	97	3,760	4,326	563	613	342	398
Employed	3,012	2,810	283	271	104	91	3,577	4,125	504	550	320	367
Unemployed	157	148	29	29	8	6	183	201	59	62	22	31
Unemployment rate	5.0	5.0	9.3	9.7	7.1	6.2	4.9	4.6	10.5	10.1	6.4	7.8
35 to 39 years												
Civilian noninstitutional population	1,749	2,227	175	217	62	73	3,283	3,186	520	515	297	291
Civilian labor force	1,709	2,174	160	197	61	70	3,155	3,066	453	456	280	266
Employed	1,640	2,091	147	182	56	65	3,051	2,951	414	416	259	253
Unemployed	69	83	13	15	5	5	104	115	39	40	21	13
Unemployment rate	4.0	3.8	8.1	7.6	8.2	7.1	3.3	3.8	8.6	8.8	7.5	4.9

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A-69. Employment status of the noninstitutional population in metropolitan and nonmetropolitan areas by sex, age, and race

(Numbers in thousands)

Employment status, sex, age, and race	Metropolitan areas						Nonmetropolitan areas					
	Total		Central cities		Suburbs		Total		Farm		Nonfarm	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
TOTAL												
Civilian noninstitutional population	111,424	113,027	46,193	46,208	65,230	66,819	52,381	53,119	4,531	4,390	47,850	48,729
Civilian labor force	72,151	73,401	28,914	28,992	43,237	44,410	32,351	33,147	2,908	2,882	29,443	30,265
Percent of population	64.8	64.9	62.6	62.7	66.3	66.5	61.8	62.4	64.2	65.7	61.5	62.1
Employed	67,031	68,147	26,490	26,538	40,541	41,609	29,986	30,662	2,826	2,788	27,160	27,874
Unemployed	5,120	5,255	2,424	2,454	2,696	2,801	2,365	2,485	82	94	2,283	2,391
Unemployment rate	7.1	7.2	8.4	8.5	6.2	6.3	7.3	7.5	2.8	3.3	7.8	7.9
Not in labor force	39,273	39,625	17,280	17,216	21,993	22,409	20,029	19,971	1,623	1,508	18,406	18,463
Males, 20 years and over												
Civilian noninstitutional population	47,074	48,046	19,191	19,382	27,884	28,664	22,355	22,637	2,071	2,005	20,284	20,632
Civilian labor force	37,858	38,440	14,866	14,906	22,992	23,534	17,331	17,591	1,687	1,647	15,644	15,944
Percent of population	80.4	80.0	77.5	76.9	82.5	82.1	77.5	77.7	81.4	82.1	77.1	77.3
Employed	35,581	36,191	13,772	13,812	21,809	22,378	16,283	16,532	1,659	1,617	14,624	14,915
Unemployed	2,276	2,249	1,093	1,094	1,182	1,156	1,049	1,059	28	30	1,021	1,029
Unemployment rate	6.0	5.9	7.4	7.3	5.1	4.9	6.1	6.0	1.7	1.8	6.5	6.5
Not in labor force	9,217	9,606	4,324	4,476	4,893	5,130	5,024	5,046	385	359	4,639	4,687
Females, 20 years and over												
Civilian noninstitutional population	53,397	54,261	22,674	22,752	30,723	31,510	24,697	25,236	1,935	1,905	22,762	23,331
Civilian labor force	28,004	28,896	11,761	11,975	16,244	16,920	11,918	12,542	892	923	11,026	11,619
Percent of population	52.4	53.3	51.9	52.6	52.9	53.7	48.3	49.7	46.1	48.5	48.4	49.8
Employed	26,331	27,114	10,949	11,135	15,382	15,979	11,146	11,677	867	884	10,279	10,793
Unemployed	1,673	1,782	811	841	862	941	772	865	25	39	747	826
Unemployment rate	6.0	6.2	6.9	7.0	5.3	5.6	6.5	6.9	2.8	4.2	6.8	7.1
Not in labor force	25,393	25,365	10,914	10,776	14,479	14,589	12,779	12,695	1,043	982	11,736	11,713
Both sexes, 16-19 years												
Civilian noninstitutional population	10,952	10,720	4,328	4,074	6,624	6,646	5,328	5,245	525	479	4,803	4,766
Civilian labor force	6,289	6,065	2,286	2,110	4,002	3,955	3,102	3,015	329	313	2,773	2,702
Percent of population	57.4	56.6	52.8	51.8	60.4	59.5	58.2	57.5	62.8	65.2	57.7	56.7
Employed	5,119	4,842	1,768	1,590	3,350	3,251	2,557	2,453	300	287	2,257	2,166
Unemployed	1,170	1,223	518	520	652	704	545	562	29	25	516	537
Unemployment rate	18.6	20.2	22.7	24.6	16.3	17.8	17.6	18.6	8.8	8.1	18.6	19.9
Not in labor force	4,663	4,655	2,042	1,964	2,622	2,691	2,227	2,231	195	167	2,032	2,064
White												
Civilian noninstitutional population	95,614	96,687	35,102	34,831	60,512	61,857	47,793	48,473	4,267	4,142	43,526	44,331
Civilian labor force	62,395	63,329	22,315	22,255	40,081	41,074	29,699	30,453	2,777	2,741	26,922	27,712
Percent of population	65.3	65.5	63.6	63.9	66.2	66.4	62.1	62.8	65.1	66.2	61.9	62.5
Employed	58,574	59,464	20,853	20,809	37,721	38,655	27,688	28,342	2,703	2,662	24,985	25,680
Unemployed	3,821	3,865	1,461	1,446	2,359	2,420	2,012	2,110	73	79	1,939	2,031
Unemployment rate	6.1	6.1	6.5	6.5	5.9	5.9	6.8	6.9	2.6	2.9	7.2	7.3
Not in labor force	33,219	33,358	12,789	12,576	20,431	20,783	18,094	18,021	1,490	1,401	16,604	16,620
Black and other												
Civilian noninstitutional population	15,809	16,339	11,090	11,377	4,719	4,962	4,588	4,645	264	248	4,324	4,397
Civilian labor force	9,756	10,072	6,599	6,737	3,157	3,336	2,652	2,695	131	141	2,521	2,554
Percent of population	61.7	61.6	59.5	59.2	66.9	67.2	57.8	58.0	49.7	57.1	58.3	58.1
Employed	8,457	8,683	5,638	5,729	2,821	2,954	2,298	2,320	122	126	2,176	2,194
Unemployed	1,299	1,389	962	1,008	337	381	354	375	9	16	345	359
Unemployment rate	13.3	13.8	14.6	15.0	10.7	11.4	13.3	13.9	6.9	11.0	13.7	14.1
Not in labor force	6,053	6,267	4,491	4,641	1,562	1,627	1,936	1,951	133	106	1,803	1,845

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A-70. Employment status of the noninstitutional population in poverty and nonpoverty areas by race

(Number in thousands)

Employment status and race	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
TOTAL												
Civilian noninstitutional population	29,254	29,232	134,550	136,913	11,215	11,239	100,208	101,787	18,039	17,992	34,342	35,126
Civilian labor force	16,299	16,589	88,204	89,959	5,976	6,160	66,175	67,241	10,323	10,429	22,029	22,718
Percent of population	55.7	56.8	65.5	65.7	53.3	54.8	66.0	66.1	57.2	58.0	64.1	64.7
Employed	14,699	14,882	82,318	83,927	5,173	5,276	61,858	62,871	9,526	9,606	20,460	21,056
Unemployed	1,600	1,708	5,885	6,032	803	885	4,317	4,370	797	823	1,569	1,662
Unemployment rate	9.8	10.3	6.7	6.7	13.4	14.4	6.5	6.5	7.7	7.9	7.1	7.3
Not in labor force	12,955	12,642	46,346	46,954	5,239	5,079	34,033	34,546	7,716	7,563	12,313	12,408
White												
Civilian noninstitutional population	20,744	20,667	122,664	124,494	5,748	5,723	89,866	90,964	14,995	14,944	32,798	33,529
Civilian labor force	11,911	12,103	80,184	81,678	3,209	3,315	59,186	60,014	8,702	8,788	20,997 ^c	21,664
Percent of population	57.4	58.6	65.4	65.6	55.8	57.9	65.9	66.0	58.0	58.8	64.0	64.6
Employed	11,012	11,158	75,249	76,649	2,881	2,964	55,693	56,499	8,131	8,193	19,557	20,149
Unemployed	898	946	4,934	5,030	327	351	3,494	3,515	571	595	1,440	1,515
Unemployment rate	7.5	7.8	6.2	6.2	10.2	10.6	5.9	5.9	6.6	6.8	6.9	7.0
Not in labor force	8,833	8,564	42,480	42,815	2,540	2,408	30,680	30,951	6,293	6,156	11,801	11,865
Black and other												
Civilian noninstitutional population	8,510	8,565	11,886	12,420	5,467	5,517	10,342	10,823	3,043	3,048	1,544	1,597
Civilian labor force	4,388	4,486	8,020	8,281	2,768	2,845	6,988	7,227	1,620	1,641	1,032	1,054
Percent of population	51.6	52.4	67.5	66.7	50.6	51.6	67.6	66.8	53.2	53.8	66.8	66.0
Employed	3,687	3,724	7,069	7,279	2,292	2,311	6,165	6,372	1,394	1,413	904	907
Unemployed	701	762	951	1,002	476	534	823	855	226	228	128	147
Unemployment rate	16.0	17.0	11.9	12.1	17.2	18.8	11.8	11.8	13.9	13.9	12.4	13.9
Not in labor force	4,123	4,079	3,866	4,139	2,700	2,671	3,354	3,596	1,423	1,407	513	543

^c=corrected.

A-71. Unemployment rates in poverty and nonpoverty areas by race, sex, and age

Race, sex, and age	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981	II 1980	II 1981
TOTAL												
Both sexes, 16 years and over	9.8	10.3	6.7	6.7	13.4	14.4	6.5	6.5	7.7	7.9	7.1	7.3
Males, 20 years and over	8.2	8.6	5.6	5.4	11.6	12.8	5.5	5.2	6.4	6.3	5.9	5.9
Females, 20 years and over	8.7	9.3	5.7	5.9	11.3	12.2	5.5	5.6	6.9	7.4	6.3	6.7
Both sexes, 16-19 years	23.7	25.0	17.2	18.7	33.9	34.3	17.2	18.8	18.4	19.7	17.2	18.2
White												
Both sexes, 16 years and over	7.5	7.8	6.2	6.2	10.2	10.6	5.9	5.9	6.6	6.8	6.9	7.0
Males, 20 years and over	6.6	6.7	5.2	5.0	9.2	9.8	5.0	4.7	5.6	5.5	5.7	5.7
Females, 20 years and over	6.3	6.8	5.2	5.3	8.6	8.7	4.9	4.9	5.5	6.1	6.1	6.4
Both sexes, 16-19 years	18.0	19.2	15.8	17.1	23.5	24.9	15.6	17.0	16.2	17.3	16.4	17.3
Black and other												
Both sexes, 16 years and over	16.0	17.0	11.9	12.1	17.2	18.8	11.8	11.8	13.9	13.9	12.4	13.9
Males, 20 years and over	13.5	14.5	10.4	9.9	15.0	16.9	10.4	9.7	11.0	10.7	10.2	11.2
Females, 20 years and over	13.8	14.9	9.7	10.4	13.8	15.6	9.7	10.2	13.8	13.7	10.3	12.1
Both sexes, 16-19 years	39.9	39.5	33.7	37.3	45.2	43.9	33.5	37.5	30.9	31.9	34.3	36.3

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A-72. Unemployment in families by type of family, race, Hispanic origin, and presence of employed family members

(Numbers in thousands)

Type of family, race, and Hispanic origin	II 1980					II 1981				
	Total families	With unemployment:			Total families	With unemployment:				
		Total	Percent of families:			Total	Percent of families:			
			With no employed person in family	With at least one employed person in family			With at least one person in family employed full time	With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL										
Total families	59,193	5,938	26.8	73.2	64.8	59,903	6,104	26.8	73.2	64.9
With children under 18 years of age	30,445	3,758	27.5	72.5	64.3	30,644	3,886	28.3	71.7	63.9
Married-couple families	48,168	4,467	20.5	79.5	71.3	48,349	4,429	18.9	81.1	73.2
With children under 18 years of age	24,315	2,869	19.9	80.1	71.8	24,174	2,855	18.6	81.4	73.9
Families maintained by females	8,713	1,179	47.0	53.0	42.9	9,126	1,374	49.9	50.1	40.3
With children under 18 years of age	5,355	778	53.0	47.0	38.2	5,633	919	56.6	43.4	34.3
Families maintained by males	2,313	291	41.2	58.8	53.6	2,428	301	37.7	62.3	55.3
With children under 18 years of age	775	112	44.1	55.9	54.1	837	112	44.1	55.9	52.3
White										
Total families	51,920	4,714	24.6	75.4	67.2	52,407	4,765	24.3	75.7	67.5
With children under 18 years of age	26,045	2,960	25.3	74.7	66.6	26,116	3,007	25.6	74.4	66.3
Married-couple families	43,912	3,803	20.6	79.4	71.4	44,083	3,744	18.6	81.4	73.6
With children under 18 years of age	21,899	2,434	20.3	79.6	71.6	21,713	2,390	18.6	81.4	73.7
Families maintained by females	6,123	699	41.8	58.2	48.1	6,347	803	48.0	52.0	41.4
With children under 18 years of age	3,527	442	49.1	50.9	41.0	3,738	532	55.2	44.8	34.8
Families maintained by males	1,885	213	39.6	60.4	54.7	1,977	219	35.5	64.5	58.6
With children under 18 years of age	619	84	44.2	55.8	54.7	665	85	38.8	61.2	57.6
Black										
Total families	6,332	1,109	35.7	64.3	55.2	6,488	1,234	36.0	64.0	55.2
With children under 18 years of age	3,835	723	36.2	63.8	55.0	3,913	809	37.9	62.1	55.0
Married-couple families	3,510	581	18.9	81.1	71.8	3,486	607	20.7	79.3	70.2
With children under 18 years of age	1,954	380	16.8	83.2	73.7	1,966	412	18.5	81.5	75.4
Families maintained by females	2,444	459	55.6	44.4	34.6	2,613	550	51.7	48.3	39.9
With children under 18 years of age	1,741	320	58.6	41.4	33.3	1,796	371	58.1	41.9	34.3
Families maintained by males	378	69	45.6	54.4	50.0	389	77	44.7	55.3	47.4
With children under 18 years of age	140	23	(1)	(1)	(1)	151	26	(1)	(1)	(1)
Hispanic origin										
Total families	3,107	439	29.6	70.4	62.9	3,251	455	28.7	71.3	62.1
With children under 18 years of age	2,110	310	31.5	68.5	61.4	2,240	333	32.3	67.7	60.5
Married-couple families	2,302	348	24.4	75.6	67.8	2,353	325	22.2	77.8	69.4
With children under 18 years of age	1,584	255	25.2	74.8	66.9	1,631	243	23.9	76.1	69.1
Families maintained by females	624	65	59.4	40.6	35.9	712	103	49.5	50.5	35.9
With children under 18 years of age	461	45	(1)	(1)	(1)	534	79	58.2	41.8	32.9
Families maintained by males	181	27	(1)	(1)	(1)	186	27	(1)	(1)	(1)
With children under 18 years of age	65	10	(1)	(1)	(1)	75	11	(1)	(1)	(1)

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

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-73. Unemployed persons by family relationship, race, Hispanic origin, and presence of employed family members

(Numbers in thousands)

Family relationship, race, and Hispanic origin	II 1980				II 1981			
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed persons in family	With at least one employed person in family	With at least one person in family employed full time		With no employed persons in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL								
Total unemployed	7,485	39.9	60.1	52.9	7,740	39.2	60.8	53.4
In families	6,382	29.5	70.5	62.1	6,623	28.9	71.1	62.5
Husbands	1,614	44.9	55.1	42.2	1,480	44.4	55.6	41.6
With children under 18 years of age	1,051	48.7	51.3	37.7	971	47.8	52.2	37.9
Wives	1,252	15.8	84.2	77.5	1,278	16.6	83.4	78.5
With children under 18 years of age	781	13.8	86.2	79.2	834	14.4	85.6	80.7
Relatives in married-couple families	1,915	10.0	90.0	84.5	2,015	7.0	93.0	86.9
Females who maintain families	418	79.7	20.3	13.9	541	84.7	15.6	9.2
With children under 18 years of age	349	86.6	13.4	8.7	460	88.0	12.0	6.8
Relatives in families maintained by females	866	33.8	66.2	54.5	982	32.3	67.7	55.9
Males who maintain families	119	70.9	29.1	24.2	131	66.9	33.1	24.9
With children under 18 years of age	47	(2)	(2)	(2)	53	(2)	(2)	(2)
Relatives in families maintained by males	199	28.7	71.3	66.5	196	22.1	77.9	69.8
Not in families ¹	1,103	--	--	--	1,117	--	--	--
White								
Total unemployed	5,833	37.8	62.2	55.1	5,976	37.3	62.7	55.5
In families	4,985	27.2	72.8	64.5	5,092	26.4	73.6	65.1
Husbands	1,366	45.9	54.1	41.0	1,243	44.6	55.4	40.8
With children under 18 years of age	894	49.9	50.1	36.1	811	48.7	51.3	36.2
Wives	1,057	14.0	86.0	79.3	1,082	15.9	84.1	79.3
With children under 18 years of age	647	12.2	87.8	81.3	692	13.8	86.2	81.3
Relatives in married-couple families	1,603	9.9	90.1	85.2	1,675	6.1	93.9	88.4
Females who maintain families	247	75.6	24.4	16.8	312	81.8	18.2	10.3
With children under 18 years of age	199	85.2	14.8	9.2	266	86.8	13.2	7.0
Relatives in families maintained by females	481	28.1	71.9	60.5	547	30.7	69.3	57.1
Males who maintain families	88	76.0	24.0	20.3	93	66.7	33.3	24.6
With children under 18 years of age	36	(2)	(2)	(2)	36	(2)	(2)	(2)
Relatives in families maintained by males	144	24.4	75.6	69.8	142	21.3	78.7	72.7
Not in families ¹	848	--	--	--	884	--	--	--
Black								
Total unemployed	1,488	47.5	52.5	44.7	1,619	46.0	54.0	46.3
In families	1,258	37.9	62.1	52.9	1,409	38.0	62.0	53.1
Husbands	214	36.7	63.3	51.0	210	43.0	57.0	46.8
With children under 18 years of age	138	39.7	60.3	48.1	146	42.5	57.5	47.9
Wives	161	25.1	74.9	67.3	171	21.4	78.6	72.1
With children under 18 years of age	113	20.9	79.1	69.5	125	17.4	82.6	77.1
Relatives in married-couple families	274	10.6	89.4	81.6	301	11.5	88.5	78.5
Females who maintain families	162	87.4	12.6	8.0	217	89.3	10.7	7.5
With children under 18 years of age	142	90.0	10.0	6.7	183	90.6	9.4	6.2
Relatives in families maintained by females	371	41.0	59.0	47.0	426	33.7	66.3	55.5
Males who maintain families	28	(2)	(2)	(2)	35	(2)	(2)	(2)
With children under 18 years of age	10	(2)	(2)	(2)	16	(2)	(2)	(2)
Relatives in families maintained by males	48	(2)	(2)	(2)	50	(2)	(2)	(2)
Not in families ¹	230	--	--	--	210	--	--	--
Hispanic origin								
Total unemployed	544	36.0	64.0	57.2	558	38.0	62.0	52.9
In families	497	30.0	70.0	62.7	491	29.6	70.4	60.0
Husbands	151	46.3	53.7	44.8	126	48.7	51.3	39.5
With children under 18 years of age	113	50.0	50.0	42.0	102	52.3	47.7	37.1
Wives	96	14.4	85.6	74.1	76	13.1	86.9	80.9
With children under 18 years of age	76	13.8	86.2	76.4	59	(2)	(2)	(2)
Relatives in married-couple families	149	9.1	90.9	86.5	149	7.4	92.6	81.6
Females who maintain families	26	(2)	(2)	(2)	38	(2)	(2)	(2)
With children under 18 years of age	24	(2)	(2)	(2)	34	(2)	(2)	(2)
Relatives in families maintained by females	41	(2)	(2)	(2)	76	32.9	67.1	51.4
Males who maintain families	6	(2)	(2)	(2)	11	(2)	(2)	(2)
With children under 18 years of age	2	(2)	(2)	(2)	4	(2)	(2)	(2)
Relatives in families maintained by males	26	(2)	(2)	(2)	15	(2)	(2)	(2)
Not in families ¹	47	--	--	--	67	--	--	--

¹ The majority of these persons are living alone or with nonrelatives. Also included are persons in married-couple families where the husband is in the Armed Forces, persons in secondary families,

and some whose status is unknown.

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

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-74. Employed persons by family relationship, race, Hispanic origin, and presence of additional employed family members

(Numbers in thousands)

Family relationship, race, and Hispanic origin	II 1980				II 1981			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed person in family	With another employed person in family	With another person in family employed full time		With no other employed person in family	With another employed person in family	With another person in family employed full time
TOTAL								
Total employed	97,017	37.5	62.5	53.0	98,809	37.6	62.4	52.9
In families	82,529	26.5	73.5	62.3	83,634	26.3	73.7	62.5
Husbands	37,464	37.6	62.4	45.0	37,511	36.9	63.1	45.5
With children under 18 years of age	22,233	39.6	60.4	39.9	22,178	39.4	60.6	40.0
Wives	22,662	9.2	90.8	85.9	23,157	9.2	90.8	86.0
With children under 18 years of age	12,242	5.4	94.6	90.7	12,441	5.3	94.7	91.0
Relatives in married-couple families	11,455	5.4	94.6	90.8	11,545	5.5	94.5	90.7
Females who maintain families	4,677	65.1	34.9	23.5	4,952	66.4	33.6	22.3
With children under 18 years of age	3,178	75.7	24.3	13.1	3,347	78.8	21.2	10.8
Relatives in families maintained by females	3,502	27.6	72.4	61.5	3,489	26.9	73.1	61.7
Males who maintain families	1,619	56.8	43.2	32.7	1,735	56.4	43.6	32.4
With children under 18 years of age	651	69.0	31.0	18.5	706	69.5	30.5	15.5
Relatives in families maintained by males	1,150	16.0	84.0	76.6	1,246	16.3	83.7	77.2
Not in families ¹	14,488	--	--	--	15,175	--	--	--
White								
Total employed	86,262	46.8	63.0	53.2	87,806	37.1	62.9	53.3
In families	73,587	26.1	73.9	62.4	74,515	25.8	74.2	62.8
Husbands	34,323	38.0	62.0	44.1	34,364	37.3	62.7	44.6
With children under 18 years of age	20,162	40.4	59.6	38.3	20,096	40.1	59.9	38.5
Wives	20,334	8.7	91.3	86.5	20,845	8.8	91.2	86.6
With children under 18 years of age	10,782	4.9	95.1	91.4	11,001	4.8	95.2	91.7
Relatives in married-couple families	10,468	5.2	94.8	91.1	10,547	5.3	94.7	91.1
Females who maintain families	3,467	62.8	37.2	24.7	3,621	64.5	35.5	23.1
With children under 18 years of age	2,290	74.0	26.0	13.2	2,408	77.5	22.5	10.8
Relatives in families maintained by females	2,684	28.0	72.0	61.5	2,650	27.4	72.6	61.7
Males who maintain families	1,356	56.3	43.7	32.2	1,454	55.3	44.7	32.5
With children under 18 years of age	534	68.1	31.9	17.8	580	67.6	32.4	15.8
Relatives in families maintained by males	955	15.5	84.5	76.9	1,033	14.7	85.3	79.8
Not in families ¹	12,675	--	--	--	13,291	--	--	--
Black								
Total employed	9,021	50.9	56.6	49.1	9,166	44.2	55.8	47.9
In families	7,466	31.6	68.4	59.3	7,562	32.3	67.7	58.0
Husbands	2,569	32.6	67.4	55.5	2,545	32.0	68.0	55.3
With children under 18 years of age	1,673	31.9	68.1	56.4	1,655	32.0	68.0	55.2
Wives	1,870	14.6	85.4	79.3	1,838	14.6	85.4	79.2
With children under 18 years of age	1,160	10.0	90.0	84.7	1,144	10.2	89.8	84.1
Relatives in married-couple families	747	7.7	92.3	85.7	756	8.1	91.9	84.9
Females who maintain families	1,129	72.7	27.3	19.1	1,245	72.6	27.4	19.0
With children under 18 years of age	839	80.1	19.9	12.8	887	82.5	17.5	10.5
Relatives in families maintained by females	754	26.6	73.4	60.6	765	25.7	74.3	60.9
Males who maintain families	230	60.4	39.6	34.5	242	63.7	36.3	30.4
With children under 18 years of age	106	73.2	26.8	21.7	111	79.4	20.6	13.7
Relatives in families maintained by males	167	19.7	80.3	74.0	171	26.2	73.8	60.5
Not in families ¹	1,555	--	--	--	1,604	--	--	--
Hispanic origin								
Total employed	4,901	46.9	61.0	53.1	5,168	38.6	61.4	54.5
In families	4,254	29.8	70.2	61.2	4,494	29.4	70.6	62.6
Husbands	1,856	44.7	55.3	43.4	1,920	42.8	57.2	46.0
With children under 18 years of age	1,360	47.7	52.3	39.4	1,427	46.2	53.8	42.3
Wives	999	9.6	90.4	85.5	1,097	8.7	91.3	86.6
With children under 18 years of age	671	8.0	92.0	87.4	746	7.7	92.3	88.2
Relatives in married-couple families	643	6.0	94.0	88.0	635	8.1	91.9	87.8
Females who maintain families	271	70.0	30.0	21.8	299	68.8	31.2	22.8
With children under 18 years of age	193	80.3	19.7	11.8	216	80.8	19.2	10.5
Relatives in families maintained by females	193	23.7	76.3	64.0	238	26.1	73.9	65.2
Males who maintain families	145	41.7	58.3	43.9	150	46.7	53.3	43.5
With children under 18 years of age	57	(2)	(2)	(2)	63	69.1	30.9	17.4
Relatives in families maintained by males	148	4.9	95.1	89.8	154	9.1	90.9	87.6
Not in families ¹	647	--	--	--	674	--	--	--

¹ The majority of these persons are living alone or with nonrelatives. Also included are persons in married-couple families where the husband is in the Armed Forces, persons in secondary families,

and some whose status is unknown.

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

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-75. Median weekly earnings of families by type of family, number of earners, race, and Hispanic origin

Type of family, number of earners, race, and Hispanic origin	Number of families (in thousands)		Median weekly earnings			
	I 1980	I 1981	I 1980	I 1981	Percent change over the year in:	
					Current dollars	Constant dollars
TOTAL						
Total families with earners ¹	40,608	40,470	\$394	\$422	7.1	-3.7
Married-couple families	33,408	33,253	427	460	7.8	-3.1
One earner	14,573	14,567	305	325	6.6	-4.2
Husband	11,994	11,695	336	366	8.9	-2.0
Wife	2,028	2,261	154	174	12.8	1.4
Other family member	551	610	159	169	6.4	-4.3
Two or more earners	18,835	18,686	524	572	5.1	-1.9
Husband and wife	16,060	15,984	529	576	8.9	-2.0
Husband and other family member(s)	2,247	2,153	531	583	9.8	-1.3
Wife and other family member(s)	419	419	330	375	13.7	2.2
Other family members only	109	130	407	330	-18.9	-27.1
Families maintained by females	5,626	5,716	221	229	3.6	-6.9
One earner	3,995	4,143	183	191	4.7	-5.9
Householder	3,114	3,203	185	195	5.3	-5.3
Other family member	880	940	173	174	.2	-9.9
Two or more earners	1,631	1,573	367	389	5.8	-4.9
Families maintained by males	1,574	1,501	350	363	3.7	-6.7
One earner	946	972	283	298	5.4	-5.2
Two or more earners	629	529	495	512	3.2	-7.2
White						
Total families with earners ¹	35,354	35,251	407	437	7.3	-3.5
Married-couple families	29,927	29,910	434	470	8.5	-2.5
One earner	13,157	13,115	314	335	6.5	-4.3
Husband	10,954	10,661	344	375	5.1	-1.9
Wife	1,715	1,919	156	176	12.9	1.5
Two or more earners	16,770	16,795	531	579	9.1	-1.9
Husband and wife	14,253	14,327	535	582	8.8	-2.2
Families maintained by females	4,096	4,134	233	237	1.6	-8.5
Families maintained by males	1,331	1,207	360	375	4.1	-6.4
Black						
Total families with earners ¹	4,585	4,568	288	307	6.8	-4.0
Married-couple families	2,933	2,802	350	374	7.0	-3.8
One earner	1,194	1,207	202	237	17.5	5.7
Husband	869	840	226	268	18.4	6.4
Wife	274	311	146	167	14.1	2.6
Two or more earners	1,740	1,595	459	482	5.1	-5.5
Husband and wife	1,531	1,403	465	503	8.1	-2.8
Families maintained by females	1,445	1,502	185	204	10.3	-8.8
Families maintained by males	206	264	307	291	-5.3	-14.8
Hispanic origin						
Total families with earners ¹	2,226	2,366	325	334	2.6	-7.6
Married-couple families	1,768	1,855	343	376	9.9	-1.2
One earner	831	876	234	241	2.9	-7.5
Husband	741	722	246	265	7.5	-2.9
Wife	74	102	(2)	163	--	--
Two or more earners	938	978	440	483	9.8	-1.3
Husband and wife	764	772	446	491	10.0	-1.1
Families maintained by females	324	379	224	198	-11.7	-20.6
Families maintained by males	134	132	308	265	-14.0	-22.7

¹ Data exclude families in which there is no wage or salary earner or in which the husband, wife, or other person maintaining the family is either self-employed or in the Armed Forces.
² Median not shown where base is less than 100,000.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate these earnings data. Because the index for the most recent quarter is not available at the time *Employment and Earnings* is published, it is necessary to lag the publication of these tables by 1 quarter.

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-78. Families with unemployed members and wage and salary workers by type of family and median weekly earnings

Type of family and relationship of unemployed members to wage and salary earners	Number of families (in thousands)		Median weekly earnings			
	I 1980	I 1981	I 1980	I 1981	Percent change over the year in:	
					Current dollars	Constant dollars
Married-couple families ¹	2,796	3,327	\$312	\$327	4.7	-5.8
Husband unemployed	779	944	160	181	13.4	2.0
Wife only earner	620	728	153	174	14.0	2.5
Wife and other earner(s)	90	93	(2)	(2)	--	--
Other earner(s) only	69	123	(2)	154	--	--
Wife unemployed	955	1,078	323	320	-0.8	-10.8
Husband only earner	825	936	306	303	-1.0	-11.0
Husband and other earner(s)	126	125	462	506	9.6	-1.5
Other earner(s) only	8	17	(2)	(2)	--	--
Other member(s) unemployed	1,058	1,306	455	506	11.2	0
Husband or wife earner	499	618	367	384	4.7	-5.9
Both husband and wife earners	519	651	559	640	14.4	2.9
Other combinations of earners	40	37	(2)	(2)	--	--
Families maintained by females ¹	500	682	220	203	-7.7	-17.0
Householder unemployed	64	109	(2)	147	--	--
Other member(s) unemployed	436	572	227	217	-4.4	-14.0
Families maintained by males ¹	185	193	268	281	5.1	-5.5

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

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

HOUSEHOLD DATA
QUARTERLY AVERAGES

A-77. Median weekly earnings of full-time wage and salary workers by selected characteristics

Characteristic	Number of workers (in thousands)		Median weekly earnings			
	I 1980	I 1981	I 1980	I 1981	Percent change over the year in :	
					Current dollars	Constant dollars
SEX AND AGE						
Total, 16 years and over	69,668	69,473	\$260	\$284	9.1	-1.9
Males, 16 years and over	42,420	41,942	316	343	6.5	-2.4
16 to 24 years	7,292	6,762	212	224	5.3	-5.3
25 years and over	35,128	35,180	338	370	9.5	-1.5
Females, 16 years and over	27,248	27,531	200	221	10.4	-0.7
16 to 24 years	5,754	5,623	169	185	9.1	-1.5
25 years and over	21,494	21,908	212	232	9.2	-1.8
FAMILY RELATIONSHIP						
Husbands	29,983	29,519	341	373	9.4	-1.6
Wives	14,236	14,456	201	224	11.1	-0.1
Others in married-couple families	5,670	5,663	183	156	7.6	-3.3
Females who maintain families	3,744	3,807	206	219	6.1	-4.5
Others in such families	2,347	2,206	191	202	5.3	-5.3
Males who maintain families	1,255	1,218	305	326	6.8	-3.9
Others in such families	787	711	199	214	7.9	-3.0
All other males ¹	6,047	6,311	288	320	11.0	-0.2
All other females ¹	5,559	5,581	220	242	9.9	-1.2
RACE AND HISPANIC ORIGIN						
White	61,144	60,943	268	291	8.7	-2.3
Males	37,789	37,344	324	352	6.6	-2.2
Females	23,355	23,599	202	222	10.1	-1.0
Black	7,239	7,212	213	233	9.4	-1.7
Males	3,933	3,881	239	264	10.1	-1.0
Females	3,306	3,332	186	206	10.7	-0.4
Hispanic origin	3,780	3,956	212	221	4.3	-6.2
Males	2,468	2,531	236	244	3.5	-6.5
Females	1,312	1,425	175	185	6.2	-4.5

¹ The majority of these persons are living alone or with nonrelatives. Also included are persons in some whose family status is unknown. married-couple families where the husband is in the Armed Forces, persons in secondary families, and

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

A-78. Median weekly earnings of part-time wage and salary workers by selected characteristics

Characteristic	Number of workers (in thousands)		Median weekly earnings			
	I 1980	I 1981	I 1980	I 1981	Percent change over the year in:	
					Current dollars	Constant dollars
SEX AND AGE						
Total, 16 years and over	15,561	15,851	\$71	\$77	8.8	-2.2
Males, 16 years and over	4,814	4,939	65	74	12.9	1.5
16 to 24 years	3,082	3,113	60	65	7.1	-3.7
25 years and over	1,732	1,826	87	100	15.6	4.0
Females, 16 years and over	10,687	10,912	73	78	7.2	-3.6
16 to 24 years	3,651	3,684	58	62	6.3	-4.4
25 years and over	7,035	7,227	81	89	9.8	-1.3
FAMILY RELATIONSHIP						
Husbands	1,252	1,265	86	100	16.3	4.6
Wives	5,674	5,853	83	91	9.4	-1.6
Others in married-couple families	4,567	4,583	53	60	11.4	.1
Females who maintain families	803	764	78	84	7.8	-3.1
Others in such families	573	1,059	60	64	7.1	-3.7
Males who maintain families	78	63	(2)	(2)	--	--
Others in such families	243	230	61	70	15.7	4.0
All other males ¹	654	747	92	95	8.2	-2.7
All other females ¹	1,317	1,287	75	80	6.6	-4.2
RACE AND HISPANIC ORIGIN						
White	13,883	14,181	71	77	8.4	-2.5
Males	4,287	4,382	65	73	11.8	.5
Females	9,596	9,799	74	75	7.2	-3.6
Black	1,351	1,413	67	74	9.8	-1.2
Males	425	471	68	82	20.8	8.6
Females	926	942	67	71	5.9	-4.8
Hispanic origin	626	685	76	75	4.6	-6.0
Males	251	252	75	78	4.1	-6.4
Females	374	433	76	81	6.7	-4.1

¹ The majority of these persons are living alone or with nonrelatives. Also included are persons in married-couple families where the husband is in the Armed Forces, persons in secondary families, and

some whose family status is unknown.

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

HOUSEHOLD DATA
QUARTERLY AVERAGES

A-79. Median weekly earnings of full-time wage and salary workers by occupation and sex

Occupation and sex	Number of workers (in thousands)		Median weekly earnings			
	I 1980	I 1981	I 1980	I 1981	Percent change over the year in:	
					Current dollars	Constant dollars
TOTAL						
Professional and technical workers	12,197	12,502	\$332	\$364	5.8	-1.2
Managers and administrators, except farm	7,427	7,910	364	395	9.7	-1.3
Sales workers	3,503	3,443	282	311	10.2	-0.5
Clerical workers	13,346	13,602	209	228	9.3	-1.7
Craft and kindred workers	10,306	9,914	321	344	7.3	-3.5
Operatives, except transport	9,366	9,218	220	238	8.4	-2.5
Transport equipment operatives	2,835	2,587	277	290	4.8	-5.8
Nonfarm laborers	3,040	2,878	222	232	4.9	-5.7
Service workers	7,003	6,829	178	191	7.5	-3.3
Farm workers	645	585	163	161	11.0	-0.1
Males						
Professional and technical workers	6,955	7,110	392	430	9.5	-1.5
Managers and administrators, except farm	5,378	5,677	422	463	9.7	-1.3
Sales workers	2,370	2,338	335	366	9.4	-1.7
Clerical workers	2,937	2,974	301	331	10.0	-1.1
Craft and kindred workers	9,760	9,309	327	353	7.9	-2.9
Operatives, except transport	5,606	5,584	267	289	8.3	-2.6
Transport equipment operatives	2,714	2,476	280	294	4.7	-5.8
Nonfarm laborers	2,708	2,582	230	236	2.6	-7.8
Service workers	3,398	3,355	223	241	8.0	-2.8
Farm workers	554	531	165	186	12.5	1.2
Females						
Professional and technical workers	5,242	5,392	280	305	8.8	-2.2
Managers and administrators, except farm	2,049	2,233	247	276	11.7	0.5
Sales workers	1,133	1,105	175	188	7.5	-3.3
Clerical workers	10,405	10,627	195	214	9.8	-1.2
Craft and kindred workers	546	605	216	239	10.5	-0.3
Operatives, except transport	3,759	3,634	170	187	9.7	-1.3
Transport equipment operatives	122	111	190	229	20.6	8.6
Nonfarm laborers	332	296	171	192	12.3	1.0
Service workers	3,665	3,470	147	160	8.5	-2.4
Farm workers	51	58	(1)	(1)	--	--

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

ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

B-1. Employee on nonagricultural payrolls by industry division, 1930 to date

Year and month	Goods-producing							Service-producing							
	Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government			
							Total	Wholesale trade	Retail trade			Total	Federal	State and local	
Annual averages															
1930.....	29,409	11,958	1,009	1,387	9,562	17,451	3,685	5,797	-	-	1,460	3,361	3,148	526	2,622
1931.....	26,635	10,272	873	1,229	8,170	16,363	3,254	5,284	-	-	1,392	3,169	3,264	560	2,704
1932.....	23,615	8,647	731	985	6,931	14,968	2,816	4,683	-	-	1,326	2,918	3,225	559	2,666
1933.....	23,699	8,965	744	824	7,397	14,734	2,672	4,755	-	-	1,280	2,861	3,166	565	2,601
1934.....	25,940	10,261	883	877	8,501	15,679	2,750	5,281	-	-	1,304	3,045	3,299	652	2,647
1935.....	27,039	10,893	897	927	9,069	16,146	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728
1936.....	29,068	11,933	946	-1,160	9,827	17,135	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842
1937.....	31,011	12,936	1,015	1,127	10,794	18,075	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923
1938.....	29,194	11,401	891	1,070	9,440	17,793	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054
1939.....	30,603	12,297	854	1,165	10,278	18,306	2,936	6,426	1,762	4,664	1,447	3,502	3,995	905	3,090
1940.....	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206
1941.....	36,539	15,963	957	1,814	13,192	20,574	3,274	7,210	1,960	5,251	1,525	3,905	4,660	1,340	3,320
1942.....	40,106	18,470	992	2,198	15,280	21,636	3,460	7,118	1,906	5,212	1,509	4,066	5,483	2,213	3,270
1943.....	42,434	20,114	925	1,587	17,602	22,320	3,647	6,982	1,822	5,160	1,481	4,130	6,080	2,905	3,175
1944.....	41,864	19,328	892	1,108	17,328	22,536	3,829	7,058	1,845	5,214	1,461	4,145	6,043	2,928	3,116
1945.....	40,374	17,507	836	1,147	15,524	22,867	3,906	7,314	1,949	5,365	1,481	4,222	5,944	2,808	3,137
1946.....	41,652	17,248	862	1,683	14,703	24,404	4,061	8,376	2,291	6,084	1,675	4,697	5,595	2,254	3,341
1947.....	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,485	1,728	5,025	5,474	1,892	3,582
1948.....	44,866	18,774	994	2,198	15,582	26,092	4,189	9,272	2,605	6,667	1,800	5,181	5,650	1,863	3,787
1949.....	43,754	17,565	930	2,194	14,441	26,189	4,001	9,264	2,602	6,662	1,828	5,240	5,856	1,908	3,948
1950.....	45,197	18,506	901	2,364	15,241	26,691	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098
1951.....	47,819	19,959	929	2,637	16,393	27,860	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,087
1952.....	48,793	20,198	898	2,668	16,632	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188
1953.....	50,202	21,074	866	2,659	17,549	29,128	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340
1954.....	48,990	19,751	791	2,646	16,314	29,239	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563
1955.....	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,610	2,298	6,240	6,914	2,187	4,727
1956.....	52,369	21,104	822	3,039	17,243	31,266	4,244	10,858	3,018	7,840	2,389	6,497	7,278	2,209	5,069
1957.....	52,853	20,964	828	2,962	17,174	31,889	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399
1958.....	51,324	19,513	751	2,817	15,945	31,811	3,976	10,750	2,980	7,770	2,481	6,765	7,839	2,191	5,648
1959 ¹	53,268	20,411	732	3,004	16,675	32,857	4,011	11,127	3,082	8,045	2,549	7,087	8,083	2,233	5,850
1960.....	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083
1961.....	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315
1962.....	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963.....	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868
1964.....	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965.....	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966.....	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967.....	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968.....	67,897	23,737	606	3,350	19,781	44,160	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102
1969.....	70,384	24,361	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,758	9,437
1970.....	70,880	23,578	623	3,588	19,367	47,302	4,515	15,040	3,993	11,047	3,645	11,548	12,554	2,731	9,823
1971.....	71,214	22,935	609	3,704	18,623	48,278	4,476	15,352	4,001	11,351	3,772	11,797	12,881	2,696	10,185
1972.....	73,273	23,668	628	3,889	19,151	50,007	4,541	15,949	4,113	11,836	3,908	12,276	13,334	2,684	10,649
1973.....	76,790	24,893	642	4,097	20,154	51,897	4,656	16,607	4,277	12,329	4,046	12,857	13,732	2,663	11,068
1974.....	78,265	24,794	697	4,020	20,077	53,471	4,725	16,987	4,433	12,554	4,148	13,441	14,170	2,724	11,446
1975.....	76,945	22,600	752	3,525	18,323	54,345	4,542	17,060	4,415	12,645	4,165	13,892	14,686	2,748	11,937
1976.....	79,382	23,352	779	3,576	18,997	56,030	4,582	17,755	4,546	13,209	4,271	14,551	14,871	2,733	12,138
1977.....	82,471	24,346	813	3,851	19,682	58,125	4,713	18,516	4,708	13,808	4,467	15,303	15,127	2,727	12,399
1978.....	86,697	25,585	851	4,229	20,505	61,113	4,923	19,542	4,969	14,573	4,724	16,252	15,672	2,753	12,919
1979.....	89,823	26,461	958	4,463	21,040	63,363	5,136	20,192	5,204	14,989	4,975	17,112	15,947	2,773	13,174
1980.....	90,564	25,718	1,020	4,399	20,300	64,847	5,143	20,386	5,281	15,104	5,168	17,901	16,249	2,866	13,383
Monthly data, seasonally adjusted															
1980:															
June.....	90,087	25,402	1,024	4,345	20,033	64,685	5,129	20,266	5,253	15,013	5,156	17,816	16,318	2,951	13,367
July.....	89,960	25,151	1,004	4,270	19,877	64,809	5,119	20,355	5,261	15,094	5,173	17,940	16,222	2,893	13,324
August.....	90,219	25,324	1,008	4,324	19,990	64,897	5,126	20,413	5,274	15,139	5,188	17,981	16,189	2,808	13,381
September.....	90,461	25,445	1,023	4,362	20,060	65,016	5,124	20,450	5,290	15,160	5,206	18,043	16,193	2,784	13,409
October.....	90,668	25,521	1,032	4,379	20,110	65,147	5,129	20,461	5,296	15,165	5,221	18,087	16,249	2,795	13,454
November.....	90,844	25,629	1,052	4,389	20,188	65,215	5,114	20,464	5,296	15,168	5,235	18,160	16,242	2,796	13,446
December.....	90,949	25,631	1,069	4,387	20,175	65,318	5,118	20,470	5,300	15,170	5,254	18,240	16,236	2,800	13,436
1981:															
January.....	91,091	25,641	1,083	4,390	20,174	65,444	5,124	20,529	5,305	15,224	5,268	18,300	16,223	2,799	13,424
February.....	91,258	25,657	1,091	4,389	20,177	65,601	5,135	20,600	5,313	15,287	5,283	18,343	16,240	2,795	13,445
March.....	91,347	25,705	1,098	4,416	20,191	65,642	5,139	20,635	5,316	15,319	5,293	18,371	16,204	2,781	13,423
April.....	91,458	25,700	950	4,418	20,332	65,758	5,161	20,636	5,333	15,303	5,316	18,475	16,170	2,767	13,403
May P.....	91,530	25,690	955	4,322	20,413	65,840	5,141	20,714	5,348	15,366	5,322	18,536	16,127	2,780	13,347
June P.....	91,516	25,774	1,106	4,263	20,405	65,742	5								

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
-	TOTAL	90,745	90,955	91,337	91,816	92,378	-	-	-	-	-
-	PRIVATE SECTOR	74,102	74,478	74,880	75,406	76,198	60,300	60,589	60,736	61,209	61,874
-	MINING	1,019	1,044	941	955	1,128	759	779	682	691	830
10	METAL MINING	106.0	107.6	102.2	103.1	-	80.5	81.6	77.2	77.5	-
101	Iron ores	23.3	23.1	22.4	22.8	-	18.2	18.0	17.7	17.9	-
102	Copper ores	36.3	37.1	36.2	36.3	-	28.2	28.8	28.0	28.0	-
11, 12	COAL MINING	245.0	247.7	93.0	91.1	-	202.3	204.3	77.2	75.5	-
12	BITUMINOUS COAL AND LIGNITE MINING	241.7	244.3	89.5	89.6	-	199.3	201.3	74.1	74.2	-
13	OIL AND GAS EXTRACTION	541.1	561.0	626.9	638.1	-	376.9	392.8	436.1	444.1	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	218.7	227.0	245.1	249.6	-	102.4	107.2	107.1	110.0	-
138	Oil and gas field services	322.4	334.0	381.8	388.5	-	274.5	285.6	329.0	334.1	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	125.5	127.6	118.7	122.3	-	99.2	100.1	91.3	94.1	-
142	Crushed and broken stone	41.5	42.1	36.8	38.0	-	34.4	34.8	30.2	31.3	-
144	Sand and gravel	37.6	38.1	33.9	35.8	-	-	-	-	-	-
147	Chemical and fertilizer minerals	26.7	26.7	27.1	27.4	-	-	-	-	-	-
-	CONSTRUCTION	4,406	4,545	4,246	4,344	4,455	3,475	3,604	3,299	3,394	3,490
15	GENERAL BUILDING CONTRACTORS	1,205.0	1,254.1	1,157.1	1,169.4	-	925.3	971.9	867.5	883.2	-
152	Residential building construction	581.1	618.3	579.1	590.7	-	426.6	462.5	420.4	433.0	-
153	Operative builders	64.2	64.5	61.3	62.0	-	38.4	38.6	32.8	33.8	-
154	Nonresidential building construction	559.7	571.3	516.7	516.7	-	460.3	470.8	414.3	416.4	-
16	HEAVY CONSTRUCTION CONTRACTORS	955.4	993.6	865.4	911.7	-	774.8	811.3	694.9	740.3	-
161	Highway and street construction	293.5	314.4	229.4	255.5	-	251.8	273.3	189.6	215.9	-
162	Heavy construction, except highway	661.9	679.2	636.0	656.2	-	523.0	538.0	505.3	524.4	-
17	SPECIAL TRADE CONTRACTORS	2,245.8	2,297.1	2,223.7	2,262.5	-	1,774.4	1,820.7	1,737.0	1,770.7	-
171	Plumbing, heating, air conditioning	525.5	536.0	536.8	536.6	-	393.1	400.6	397.8	396.2	-
172	Painting, paper hanging, decorating	146.4	153.1	133.4	141.7	-	123.5	129.8	109.2	116.9	-
173	Electrical work	398.9	407.0	407.0	410.0	-	308.7	316.5	311.8	314.8	-
174	Masonry, stonework, and plastering	362.1	369.4	359.3	361.7	-	311.3	319.2	307.0	308.2	-
175	Carpentering and flooring	119.5	120.9	128.3	132.2	-	89.3	91.1	96.8	100.7	-
176	Roofing and sheet metal work	170.1	173.1	162.9	164.0	-	137.2	140.3	129.8	130.8	-
-	MANUFACTURING	20,196	20,146	20,253	20,343	20,508	14,128	14,047	14,127	14,201	14,343
24, 25, 32-39	DURABLE GOODS	12,124	12,036	12,197	12,236	12,312	8,387	8,284	8,412	8,442	8,509
20-23, 26-31	NONDURABLE GOODS	8,072	8,110	8,056	8,107	8,196	5,741	5,763	5,715	5,759	5,834
	DURABLE GOODS	-	-	-	-	-	-	-	-	-	-
24	LUMBER AND WOOD PRODUCTS	657.3	670.8	686.9	703.5	710.4	545.3	558.9	571.6	587.4	595.1
241	Logging camps and logging contractors	80.0	86.2	77.6	82.8	-	63.9	70.1	59.7	64.5	-
242	Sawmills and planing mills	206.4	211.1	211.3	216.2	-	182.0	186.7	186.7	191.9	-
2421	Sawmills and planing mills, general	168.5	174.5	175.6	180.2	-	148.7	154.6	155.8	160.6	-
2426	Hardwood dimension and flooring	31.7	30.5	31.1	31.5	-	27.5	26.4	26.9	27.3	-
243	Millwork, plywood, and structural members	187.6	191.5	207.2	210.9	-	152.2	156.1	171.5	174.9	-
2431	Millwork	64.3	65.3	72.0	73.4	-	50.2	51.3	58.1	59.2	-
2434	Wood kitchen cabinets	49.0	47.2	49.6	49.9	-	40.4	38.6	39.8	40.1	-
2435	Hardwood veneer and plywood	24.5	24.3	27.1	27.6	-	21.7	21.5	23.9	24.4	-
2436	Softwood veneer and plywood	35.3	39.9	42.8	43.7	-	29.7	34.1	38.1	39.0	-
244	Wood containers	43.7	43.4	42.7	43.3	-	37.7	37.4	36.6	37.2	-
245	Wood buildings and mobile homes	60.3	59.0	67.2	69.3	-	44.0	42.9	49.6	51.2	-
2451	Mobile homes	42.4	41.5	48.3	49.9	-	32.1	31.2	36.9	38.1	-
249	Miscellaneous wood products	79.3	79.6	80.9	81.0	-	65.5	65.7	67.5	67.7	-
26	FURNITURE AND FIXTURES	464.0	455.9	478.0	478.8	482.5	373.4	364.7	386.0	386.7	390.4
251	Household furniture	303.0	293.0	315.1	315.1	-	253.3	243.5	264.4	264.3	-
2511	Wood household furniture	137.0	132.8	142.6	142.7	-	118.9	115.1	123.8	124.0	-
2512	Upholstered household furniture	93.4	90.6	97.7	97.7	-	76.7	74.1	80.1	80.1	-
2514	Metal household furniture	30.1	27.2	31.5	31.8	-	24.1	21.2	26.0	25.9	-
2515	Mattresses and bedsprings	28.8	29.1	30.0	30.0	-	21.7	21.9	22.9	23.1	-
252	Office furniture	49.7	49.2	51.2	51.0	-	39.0	38.5	39.9	39.8	-
253	Public building and related furniture	23.9	23.9	23.8	24.2	-	17.7	17.6	17.6	18.0	-
254	Partitions and fixtures	61.2	63.7	60.5	60.8	-	45.3	47.1	45.2	45.6	-
259	Miscellaneous furniture and fixtures	26.2	26.1	27.4	27.7	-	18.1	18.0	18.9	19.0	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
32	STONE, CLAY, AND GLASS PRODUCTS	665.7	663.9	652.6	660.2	669.3	516.5	513.4	503.0	509.5	518.9
321	Flat glass	17.0	17.2	19.3	19.0	-	12.8	13.0	14.9	14.5	-
322	Glass and glassware, pressed or blown	125.2	123.6	122.7	124.2	-	106.7	105.1	103.5	104.8	-
3221	Glass containers	69.3	69.2	68.0	69.3	-	60.8	60.8	59.6	60.8	-
3229	Pressed and blown glass, nec	55.9	54.4	54.7	54.9	-	45.9	44.3	43.9	44.0	-
323	Products of purchased glass	44.8	43.9	46.8	47.5	-	32.3	31.0	32.2	32.5	-
324	Cement, hydraulic	30.2	31.3	29.2	29.0	-	24.2	25.2	23.0	22.9	-
325	Structural clay products	45.5	45.4	44.0	44.9	-	34.1	34.0	33.2	34.2	-
326	Pottery and related products	46.8	46.1	44.3	44.0	-	38.4	38.1	36.4	36.0	-
327	Concrete, gypsum, and plaster products	207.7	210.3	195.4	198.7	-	160.3	162.7	150.1	153.3	-
3271	Concrete block and brick	21.3	21.4	20.2	20.7	-	14.8	14.9	14.1	14.5	-
3272	Concrete products, nec	67.5	68.8	63.1	63.6	-	50.9	51.9	46.9	47.3	-
3273	Ready-mixed concrete	98.0	99.4	91.9	93.9	-	77.8	79.2	72.6	74.8	-
329	Misc. nonmetallic mineral products	136.8	135.0	139.4	141.6	-	98.2	95.3	100.4	102.2	-
3291	Abrasive products	29.8	29.5	29.1	29.3	-	20.1	19.6	19.7	19.8	-
3292	Asbestos products	15.2	16.2	17.3	17.4	-	12.1	12.0	13.3	13.3	-
3296	Mineral wool	31.0	30.3	31.4	31.9	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,161.2	1,123.6	1,149.9	1,146.2	1,153.4	891.6	854.7	889.7	885.0	889.5
331	Blast furnace and basic steel products	524.1	498.9	518.5	517.7	-	405.6	380.4	405.0	403.7	-
3312	Blast furnaces and steel mills	440.6	417.6	435.0	434.1	-	342.2	319.0	341.0	339.3	-
3317	Steel pipe and tubes	29.7	29.3	31.9	32.3	-	22.7	22.2	24.9	25.5	-
332	Iron and steel foundries	214.0	205.6	207.9	206.4	-	171.3	163.6	166.9	165.3	-
3321	Gray iron foundries	127.5	123.2	126.3	126.4	-	103.8	99.6	103.4	103.5	-
3322	Malleable iron foundries	16.8	15.0	15.8	15.6	-	12.9	11.3	12.3	12.0	-
3325	Steel foundries, nec	57.9	55.4	53.9	52.7	-	45.7	43.7	42.5	41.3	-
333	Primary nonferrous metals	74.3	74.6	71.8	71.5	-	56.8	57.2	54.1	54.0	-
3334	Primary aluminum	39.4	38.9	36.9	36.9	-	30.2	30.6	28.5	28.7	-
335	Nonferrous rolling and drawing	207.9	207.5	208.1	207.0	-	147.6	147.0	149.4	147.9	-
3351	Copper rolling and drawing	30.8	30.3	29.4	28.3	-	22.8	22.5	22.1	20.9	-
3353	Aluminum sheet, plate, and foil	34.8	34.4	34.6	34.8	-	26.5	26.0	26.6	26.7	-
3357	Nonferrous wire drawing and insulating	83.7	84.8	87.7	87.1	-	59.4	60.3	63.7	62.9	-
336	Nonferrous foundries	90.2	87.2	92.5	92.4	-	71.8	68.8	75.3	75.1	-
3361	Aluminum foundries	51.4	49.4	52.6	52.7	-	41.6	39.5	44.0	43.9	-
34	FABRICATED METAL PRODUCTS	1,601.4	1,580.0	1,593.7	1,595.2	1,607.2	1,182.0	1,164.6	1,178.1	1,180.0	1,193.5
341	Metal cans and shipping containers	75.1	74.6	72.4	72.5	-	63.2	62.8	61.2	61.4	-
3411	Metal cans	61.9	61.7	59.4	59.6	-	52.4	52.3	50.7	51.0	-
342	Cutlery, hand tools, and hardware	164.3	159.5	171.4	170.6	-	123.9	120.2	131.9	131.0	-
3423,5	Hand and edge tools, and hand saws and blades	58.6	57.9	58.8	58.9	-	44.9	44.4	44.9	45.0	-
3429	Hardware, nec	90.0	86.4	97.8	97.4	-	67.3	64.4	75.5	75.2	-
343	Plumbing and heating, except electric	68.6	65.9	67.2	66.9	-	47.9	45.9	48.1	47.9	-
3432	Plumbing fittings and brass goods	23.6	22.9	24.1	24.4	-	18.8	18.2	19.4	19.6	-
3433	Heating equipment, except electric	34.8	33.0	32.1	31.5	-	22.1	20.9	21.1	20.7	-
344	Fabricated structural metal products	503.0	501.7	498.4	498.5	-	346.2	345.4	339.1	339.7	-
3441	Fabricated structural metal	102.5	102.0	95.7	95.2	-	74.1	74.0	68.3	67.6	-
3442	Metal doors, sash, and trim	73.2	73.0	76.7	78.3	-	52.4	52.6	55.3	57.1	-
3443	Fabricated plate work (boiler shops)	149.9	150.0	148.9	148.0	-	94.3	94.0	90.3	89.5	-
3444	Sheet metal work	109.6	109.9	109.5	109.4	-	79.7	80.1	79.4	79.5	-
3446	Architectural metal work	30.9	30.7	32.1	32.0	-	21.8	21.6	22.8	22.8	-
345	Screw machine products, bolts, etc.	110.6	107.5	104.3	103.5	-	85.8	83.1	80.3	79.4	-
3451	Screw machine products	51.3	50.8	49.2	49.0	-	41.9	41.4	40.0	39.8	-
3452	Bolts, nuts, rivets, and washers	59.3	56.7	55.1	54.5	-	43.9	41.7	40.3	39.6	-
346	Metal forgings and stampings	260.4	258.3	262.0	263.5	-	203.4	201.9	207.9	209.2	-
3462	Iron and steel forgings	45.6	45.6	45.1	45.3	-	35.1	35.1	35.0	35.0	-
3465	Automotive stampings	91.2	93.4	95.2	97.0	-	72.6	75.2	78.9	80.7	-
3469	Metal stampings, nec	110.5	106.6	109.0	108.5	-	85.5	81.8	84.1	83.6	-
347	Metal services, nec	101.6	99.7	103.2	103.4	-	81.8	80.1	83.0	83.2	-
3471	Plating and polishing	69.4	68.0	70.0	69.9	-	56.4	55.2	57.2	57.1	-
3479	Metal coating and allied services	32.2	31.7	33.2	33.5	-	25.4	24.9	25.8	26.1	-
348	Ordnance and accessories, nec	61.3	61.4	60.0	60.1	-	40.9	40.9	39.2	39.1	-
3483	Ammunition, exc. for small arms, nec	24.4	24.4	25.2	25.1	-	16.5	16.5	16.6	16.3	-
349	Misc. fabricated metal products	256.5	251.4	254.8	256.2	-	188.9	184.3	187.4	189.1	-
3494	Valves and pipe fittings	105.0	103.5	104.5	104.8	-	72.4	71.5	71.9	72.1	-
3496	Misc. fabricated wire products	55.2	53.9	55.5	55.7	-	43.2	41.6	43.1	43.5	-
35	MACHINERY, EXCEPT ELECTRICAL	2,522.9	2,497.4	2,506.1	2,508.9	2,522.9	1,630.1	1,600.6	1,596.9	1,594.5	1,605.2
351	Engines and turbines	138.2	134.2	130.5	132.4	-	89.2	85.8	83.9	84.8	-
3511	Turbines and turbine generator sets	41.6	41.7	41.4	41.2	-	21.4	21.3	22.1	21.6	-
3519	Internal combustion engines, nec	96.6	92.5	89.1	91.2	-	67.8	64.5	61.8	63.2	-
352	Farm and garden machinery	182.8	174.5	171.7	167.1	-	127.9	120.1	116.1	112.2	-
3523	Farm machinery and equipment	160.4	154.8	148.0	146.3	-	112.9	108.0	98.9	97.5	-
353	Construction and related machinery	393.3	389.7	395.0	394.4	-	258.3	253.8	259.7	258.9	-
3531	Construction machinery	153.6	149.1	145.9	145.2	-	103.5	98.8	97.9	96.9	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3532	Mining machinery.....	38.4	38.7	38.1	37.4	-	23.8	24.0	23.9	23.3	-
3533	Oil field machinery.....	92.2	93.6	105.7	106.9	-	63.3	64.3	73.2	74.7	-
3535	Conveyers and conveying equipment.....	35.6	35.5	33.6	33.6	-	20.2	19.8	19.0	18.9	-
3537	Industrial trucks and tractors.....	37.0	36.3	35.9	36.0	-	24.7	24.1	23.9	23.8	-
354	Metalworking machinery.....	376.5	372.5	360.8	362.7	-	276.0	271.5	261.6	262.4	-
3541	Machine tools, metal cutting types.....	83.1	81.9	80.0	79.6	-	56.0	54.8	52.3	51.8	-
3542	Machine tools, metal forming types.....	27.1	27.0	25.7	25.9	-	17.7	17.6	16.2	16.3	-
3544	Special dies, tools, jigs, and fixtures.....	136.7	134.9	135.1	135.6	-	109.2	107.5	108.1	108.0	-
3545	Machine tool accessories.....	71.3	71.8	68.5	68.7	-	51.1	51.0	48.3	48.5	-
3546	Power driven hand tools.....	32.2	31.2	28.9	29.1	-	24.6	23.7	22.1	22.4	-
355	Special industry machinery.....	210.4	211.5	205.6	204.5	-	134.2	134.8	129.9	128.9	-
3551	Food products machinery.....	47.2	47.2	45.0	44.4	-	30.2	30.1	28.7	28.2	-
3552	Textile machinery.....	27.5	27.3	25.4	25.3	-	19.4	19.1	17.7	17.5	-
3555	Printing trades machinery.....	40.1	41.0	42.7	42.6	-	24.7	25.6	26.4	26.4	-
356	General industrial machinery.....	324.0	321.0	315.3	314.4	-	211.3	208.4	204.5	203.4	-
3561	Pumps and pumping equipment.....	63.6	63.1	62.4	62.2	-	37.8	37.2	36.5	36.5	-
3562	Ball and roller bearings.....	57.0	56.5	57.3	57.0	-	44.2	44.0	44.6	44.3	-
3563	Air and gas compressors.....	31.4	31.2	30.2	30.1	-	18.5	18.5	18.0	17.9	-
3564	Blowers and fans.....	41.6	40.9	40.7	41.0	-	25.3	24.4	25.4	25.6	-
3566	Speed changers, drives, and gears.....	27.3	26.8	26.7	26.8	-	18.6	18.2	17.7	17.8	-
3568	Power transmission equipment, nec.....	23.8	23.1	21.8	22.0	-	16.9	16.3	15.4	15.4	-
357	Office and computing machines.....	426.5	432.3	443.9	446.4	-	184.8	186.4	182.6	182.8	-
3573	Electronic computing equipment.....	346.7	352.3	364.7	367.1	-	139.4	141.4	139.8	140.2	-
358	Refrigeration and service machinery.....	175.6	168.4	181.6	183.3	-	120.5	114.0	127.0	128.2	-
3585	Refrigeration and heating equipment.....	119.0	112.1	125.1	125.9	-	82.0	75.8	88.5	88.9	-
359	Misc. machinery, except electrical.....	295.9	293.3	301.7	303.7	-	227.9	225.8	231.6	232.9	-
3592	Carburetors, pistons, rings, valves.....	40.9	39.3	42.4	42.9	-	32.4	30.7	34.8	35.0	-
3599	Machinery, except electrical, nec.....	255.0	254.0	259.3	260.8	-	195.5	195.1	196.8	197.9	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT.....	2,097.5	2,079.7	2,129.7	2,134.9	2,149.4	1,336.0	1,311.3	1,343.7	1,348.5	1,359.4
361	Electric distributing equipment.....	124.0	121.6	120.9	121.2	-	86.5	84.4	85.7	85.9	-
3612	Transformers.....	54.6	53.1	52.0	52.2	-	38.4	36.9	36.6	36.7	-
3613	Switchgear and switchboard apparatus.....	69.4	68.5	68.9	69.0	-	48.1	47.5	49.1	49.2	-
362	Electrical industrial apparatus.....	243.8	236.0	239.4	240.0	-	172.2	165.2	170.6	171.0	-
3621	Motors and generators.....	123.7	117.7	123.3	123.4	-	92.5	87.2	94.8	94.9	-
3622	Industrial controls.....	73.7	72.2	70.3	70.8	-	46.5	45.0	43.6	43.9	-
363	Household appliances.....	161.3	154.3	170.1	170.9	-	127.2	120.5	136.1	136.9	-
3632	Household refrigerators and freezers.....	31.4	32.4	39.0	39.7	-	25.0	26.4	32.2	32.6	-
3633	Household laundry equipment.....	18.5	17.0	20.9	21.0	-	14.1	12.5	16.5	16.7	-
3634	Electric housewares and fans.....	52.7	52.0	51.4	51.4	-	43.0	42.1	41.2	41.4	-
364	Electric lighting and wiring equipment.....	213.8	207.4	211.5	211.6	-	159.0	153.2	157.3	157.4	-
3641	Electric lamps.....	37.0	35.3	34.4	33.2	-	32.5	31.1	30.2	28.8	-
3643	Current-carrying wiring devices.....	90.3	88.9	89.2	90.6	-	63.0	61.6	61.4	63.0	-
3644	Noncurrent-carrying wiring devices.....	22.4	21.8	23.3	23.2	-	16.0	15.5	17.0	16.9	-
3645	Residential lighting fixtures.....	25.0	23.5	26.4	25.8	-	18.7	17.3	20.2	19.6	-
365	Radio and TV receiving equipment.....	106.0	108.7	107.9	108.5	-	76.2	78.7	76.7	77.4	-
3651	Radio and TV receiving sets.....	83.6	85.6	85.9	86.4	-	58.2	60.2	59.3	59.9	-
366	Communication equipment.....	538.8	539.9	542.0	542.3	-	266.8	265.2	263.1	263.3	-
3661	Telephone and telegraph apparatus.....	166.3	163.9	156.1	155.0	-	114.7	111.8	104.0	103.3	-
3662	Radio and TV communication equipment.....	372.5	376.0	385.9	387.3	-	152.1	153.4	159.1	160.0	-
367	Electronic components and accessories.....	558.7	563.2	571.0	572.2	-	340.8	339.4	333.1	334.3	-
3671-3	Electronic tubes.....	42.4	42.6	43.7	43.8	-	26.7	26.8	27.0	27.0	-
3674	Semiconductors and related devices.....	224.7	228.7	237.1	235.8	-	102.6	101.8	98.9	98.2	-
3678	Electronic components, nec.....	215.1	216.0	218.3	219.3	-	150.8	150.6	152.0	152.9	-
369	Misc. electrical equipment and supplies.....	151.1	148.6	166.9	168.2	-	107.3	104.7	121.1	122.3	-
3691	Storage batteries.....	27.5	27.9	31.1	31.3	-	21.0	21.4	24.1	24.4	-
3694	Engine electrical equipment.....	69.7	67.2	80.3	81.2	-	51.6	49.3	61.7	62.6	-
37	TRANSPORTATION EQUIPMENT.....	1,824.4	1,835.1	1,874.3	1,880.0	1,880.3	1,169.5	1,178.0	1,216.3	1,221.0	1,221.2
371	Motor vehicles and equipment.....	720.5	731.7	749.9	755.1	-	512.4	526.6	565.0	569.8	-
3711	Motor vehicles and car bodies.....	322.3	344.4	331.1	333.9	-	210.9	235.0	237.6	240.4	-
3713	Truck and bus bodies.....	38.4	36.0	34.4	33.9	-	29.5	27.4	25.7	25.4	-
3714	Motor vehicle parts and accessories.....	328.1	320.5	351.2	352.5	-	248.7	241.8	276.3	277.4	-
3715	Truck trailers.....	28.2	26.9	27.5	28.8	-	20.8	19.5	21.1	22.2	-
372	Aircraft and parts.....	650.9	653.1	662.2	660.8	-	355.9	354.2	354.2	352.4	-
3721	Aircraft.....	349.5	349.6	363.2	362.7	-	173.9	171.8	178.0	177.4	-
3724	Aircraft engines and engine parts.....	161.2	162.3	160.7	159.3	-	93.0	93.5	91.3	90.4	-
3728	Aircraft equipment, nec.....	140.2	141.2	138.3	138.8	-	89.0	88.9	84.9	84.6	-
373	Ship and boat building and repairing.....	216.2	213.9	229.7	230.6	-	172.3	169.9	182.7	183.9	-
3731	Ship building and repairing.....	174.9	173.6	180.5	180.2	-	138.7	137.2	141.8	141.6	-
3732	Boat building and repairing.....	41.3	40.3	49.2	50.4	-	33.6	32.7	40.9	42.3	-
374	Railroad equipment.....	74.4	72.3	52.4	52.0	-	56.6	54.8	36.6	36.0	-
376	Guided missiles, space vehicles, parts.....	108.8	109.9	117.3	117.6	-	35.1	35.0	35.1	35.0	-
3761	Guided missiles and space vehicles.....	86.4	87.2	94.0	94.6	-	26.3	26.2	26.5	26.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹					
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	
	TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	33.4	34.3	40.3	41.3	-	20.8	21.4	25.9	26.9	-	-
3792	Travel trailers and campers	12.2	12.7	20.1	20.8	-	8.2	8.7	15.7	16.3	-	-
38	INSTRUMENTS AND RELATED PRODUCTS	707.8	711.5	714.4	715.7	719.8	424.5	425.2	422.6	423.5	425.9	-
381	Engineering and scientific instruments	75.9	76.7	78.1	78.0	-	37.0	37.1	37.9	37.8	-	-
382	Measuring and controlling devices	241.8	243.0	245.7	246.2	-	152.1	151.5	153.7	154.3	-	-
3822	Environmental controls	47.4	46.4	47.9	46.9	-	33.2	31.4	33.0	32.3	-	-
3823	Process control instruments	52.7	54.1	55.5	55.7	-	27.8	28.7	29.3	29.4	-	-
3825	Instruments to measure electricity	101.7	102.9	104.2	105.1	-	62.4	63.1	64.7	65.4	-	-
383	Optical instruments and lenses	33.3	33.3	33.3	33.3	-	18.3	18.5	18.2	18.2	-	-
384	Medical instruments and supplies	156.1	155.6	158.4	159.4	-	101.9	101.0	100.2	100.5	-	-
3841	Surgical and medical instruments	71.7	71.2	73.7	74.7	-	47.1	46.3	45.2	45.7	-	-
3842	Surgical appliances and supplies	67.0	67.0	67.4	67.5	-	43.7	43.7	44.2	44.1	-	-
385	Ophthalmic goods	44.5	44.2	42.8	42.5	-	32.0	31.8	30.2	30.0	-	-
386	Photographic equipment and supplies	134.1	137.0	136.9	137.9	-	66.6	68.7	68.4	69.2	-	-
387	Watches, clocks, and watchcases	22.1	21.7	19.2	18.4	-	16.6	16.6	14.0	13.5	-	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	421.9	417.7	411.3	412.8	417.1	317.9	312.2	304.1	305.9	309.7	-
391	Jewelry, silverware, and plated ware	54.6	54.4	54.8	54.9	-	39.0	38.8	39.2	39.3	-	-
3911	Jewelry, precious metal	35.4	35.2	35.8	35.7	-	25.0	25.0	25.2	25.1	-	-
393	Musical instruments	21.1	20.7	22.3	22.2	-	17.0	16.3	18.1	18.0	-	-
394	Toys and sporting goods	119.0	118.0	113.6	115.2	-	89.5	87.8	84.4	86.4	-	-
3942, 4	Dolls, games, toys, and children's vehicles	59.6	61.4	57.0	59.1	-	43.7	45.0	40.7	43.0	-	-
3949	Sporting and athletic goods, nec	59.4	56.6	56.6	56.1	-	45.8	42.8	43.7	43.4	-	-
395	Pens, pencils, office and art supplies	38.3	37.8	38.3	38.5	-	27.2	26.8	27.0	27.3	-	-
396	Costume jewelry and notions	52.3	51.8	48.1	48.0	-	41.8	41.4	37.0	36.9	-	-
3961	Costume jewelry	24.6	24.7	23.2	23.2	-	19.2	19.4	17.6	17.6	-	-
399	Miscellaneous manufactures	136.6	135.0	134.2	134.0	-	103.4	101.1	98.4	98.0	-	-
3993	Signs and advertising displays	47.7	47.5	47.8	48.0	-	34.4	34.2	34.4	34.7	-	-
	NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,654.1	1,694.9	1,631.0	1,648.5	1,680.6	1,121.1	1,154.6	1,103.4	1,117.8	1,141.1	-
201	Meat products	354.9	360.5	346.5	350.3	-	294.8	300.5	288.2	291.7	-	-
2011	Meat packing plants	160.3	161.6	157.0	158.0	-	130.9	132.2	129.8	129.7	-	-
2013	Sausages and other prepared meats	69.3	70.4	68.2	68.9	-	50.6	51.7	50.6	51.1	-	-
2016	Poultry dressing plants	110.9	114.9	108.2	109.9	-	101.0	105.0	97.6	99.3	-	-
202	Dairy products	176.1	179.4	172.5	173.9	-	96.8	99.7	94.8	95.8	-	-
2022	Cheese, natural and processed	35.2	36.8	35.8	35.7	-	27.1	28.6	27.5	27.3	-	-
2026	Fluid milk	102.3	102.9	99.5	100.0	-	45.0	45.7	44.5	44.6	-	-
203	Preserved fruits and vegetables	222.4	235.7	211.2	215.4	-	177.3	189.0	167.4	171.2	-	-
2032	Canned specialties	23.5	23.8	24.2	24.4	-	16.8	17.3	17.3	17.5	-	-
2033	Canned fruits and vegetables	77.9	83.0	71.3	74.7	-	61.1	64.5	54.6	58.0	-	-
2037	Frozen fruits and vegetables	46.0	49.4	42.8	43.1	-	39.7	42.8	36.9	37.0	-	-
204	Grain mill products	141.6	143.3	139.7	140.9	-	96.8	97.2	96.5	97.5	-	-
2041	Flour and other grain mill products	26.3	26.0	26.7	26.3	-	16.1	15.0	16.9	16.5	-	-
2048	Prepared feeds, nec	56.3	57.5	55.2	56.3	-	36.2	37.4	35.8	36.8	-	-
205	Bakery products	225.7	226.6	221.1	221.6	-	131.1	131.8	127.1	127.7	-	-
2051	Bread, cake, and related products	183.5	185.3	179.9	180.9	-	98.4	99.9	94.8	95.7	-	-
2052	Cookies and crackers	42.2	41.3	41.2	40.7	-	32.7	31.9	32.3	32.0	-	-
206	Sugar and confectionery products	97.9	99.0	102.9	103.3	-	71.2	72.4	76.1	77.1	-	-
2061-3	Cane and beet sugar	26.0	26.6	27.8	28.2	-	17.8	18.3	19.6	20.3	-	-
2065	Confectionery products	53.2	52.8	54.9	55.2	-	40.7	40.6	43.0	43.6	-	-
207	Fats and oils	44.2	44.0	43.4	43.8	-	32.2	31.8	32.1	32.4	-	-
208	Beverages	233.1	239.8	232.9	236.7	-	104.4	108.0	102.9	104.6	-	-
2082	Malt beverages	50.0	52.0	50.9	51.9	-	32.9	34.5	33.7	34.5	-	-
2086	Bottled and canned soft drinks	139.1	142.9	138.0	140.8	-	47.0	48.6	45.6	46.3	-	-
209	Misc. foods and kindred products	158.2	166.6	160.8	162.6	-	116.5	124.2	118.3	119.8	-	-
21	TOBACCO MANUFACTURES	63.5	65.2	66.2	65.1	67.1	48.4	49.8	50.2	49.5	51.5	-
211	Cigarettes	45.5	47.2	47.0	46.8	-	34.5	35.7	35.5	35.4	-	-
22	TEXTILE MILL PRODUCTS	859.3	842.1	841.6	843.6	849.6	747.1	730.4	729.3	731.9	737.3	-
221	Weaving mills, cotton	151.6	151.1	142.0	141.7	-	136.3	135.9	126.6	126.3	-	-
222	Weaving mills, synthetics	120.2	108.1	118.1	117.5	-	107.9	96.1	105.8	105.6	-	-
223	Weaving and finishing mills, wool	19.7	19.5	19.3	19.5	-	16.1	15.9	15.9	16.2	-	-
224	Narrow fabric mills	22.9	23.0	24.0	24.1	-	20.0	20.1	21.2	21.2	-	-
225	Knitting mills	223.7	223.7	220.3	221.5	-	194.3	194.6	190.6	192.0	-	-
2251	Women's hosiery, except socks	30.5	30.4	28.5	28.6	-	27.6	27.6	25.5	25.5	-	-
2252	Hosiery, nec	33.3	33.3	34.2	34.6	-	30.4	30.4	31.1	31.5	-	-
2253	Knit outerwear mills	69.9	70.7	70.8	72.0	-	60.0	60.7	60.1	61.3	-	-
2254	Knit underwear mills	31.2	31.5	31.4	31.4	-	26.8	27.3	27.3	27.4	-	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
	TEXTILE MILL PRODUCTS—Continued										
2257	Circular knit fabric mills	34.0	33.5	32.1	31.6	-	28.8	28.3	27.2	26.8	-
226	Textile finishing, except wool	75.7	74.9	72.3	72.6	-	63.7	62.9	60.3	60.7	-
2261	Finishing plants, cotton	30.3	30.2	27.7	27.6	-	25.4	25.2	22.8	22.7	-
2262	Finishing plants, synthetics	28.8	28.6	29.3	29.7	-	24.2	24.0	24.7	25.0	-
227	Floor covering mills	53.8	52.7	52.4	52.7	-	43.8	42.8	42.3	42.5	-
228	Yarn and thread mills	126.6	124.5	125.6	126.3	-	114.2	112.0	113.3	114.1	-
2281	Yarn mills, except wool	84.2	84.1	84.7	84.9	-	77.4	77.3	77.7	78.0	-
2282	Throwing and winding mills	20.8	20.0	20.1	20.3	-	18.1	17.3	17.8	18.0	-
229	Miscellaneous textile goods	65.1	64.6	67.6	67.7	-	50.8	50.1	53.3	53.3	-
	APPAREL AND OTHER TEXTILE PRODUCTS	1,271.4	1,281.2	1,255.2	1,266.8	1,281.0	1,086.3	1,096.2	1,069.5	1,079.7	1,093.7
23	Men's and boys' suits and coats	79.3	80.1	76.8	77.8	-	69.3	70.0	67.2	68.4	-
232	Men's and boys' furnishings	368.8	371.2	350.5	353.5	-	315.7	318.1	299.5	302.2	-
2321	Men's and boys' shirts and nightwear	100.8	101.6	96.4	96.6	-	87.5	88.4	82.9	83.4	-
2327	Men's and boys' separate trousers	77.3	77.7	73.6	74.3	-	67.5	68.0	64.3	64.6	-
2328	Men's and boys' work clothing	106.1	106.8	101.3	103.4	-	88.5	89.1	84.7	86.5	-
233	Women's and misses' outerwear	421.2	425.6	414.9	416.9	-	364.3	368.4	355.5	356.8	-
2331	Women's and misses' blouses and waists	63.0	63.7	62.0	61.7	-	55.0	55.6	54.3	53.9	-
2335	Women's and misses' dresses	142.7	144.5	141.9	138.9	-	126.4	128.1	124.9	121.9	-
2337	Women's and misses' suits and coats	67.9	71.0	58.4	65.0	-	59.3	62.7	49.5	55.3	-
2339	Women's and misses' outerwear, nec	147.6	146.4	152.6	151.3	-	123.6	122.0	126.9	125.7	-
234	Women's and children's undergarments	89.6	89.3	88.1	89.0	-	76.2	75.8	75.2	76.0	-
2341	Women's and children's underwear	71.7	71.8	70.5	71.1	-	62.1	62.1	61.4	62.0	-
2342	Brassieres and allied garments	17.9	17.5	17.6	17.9	-	14.1	13.7	13.8	14.0	-
236	Children's outerwear	65.6	67.0	64.4	65.6	-	56.6	57.8	54.8	55.3	-
2361	Children's dresses and blouses	27.7	28.1	27.4	28.0	-	25.1	25.5	24.6	25.0	-
238	Misc. apparel and accessories	55.5	56.1	55.2	55.0	-	47.2	48.0	46.9	46.8	-
239	Misc. fabricated textile products	169.4	169.8	183.5	186.7	-	137.8	138.7	151.5	154.9	-
2391	Curtains and draperies	27.7	27.1	27.4	28.2	-	23.4	22.8	22.8	23.5	-
2392	House furnishings, nec	49.0	49.3	48.9	49.3	-	40.1	40.5	40.4	40.8	-
2396	Automotive and apparel trimmings	24.2	24.8	36.0	38.0	-	18.7	19.7	30.6	32.7	-
	PAPER AND ALLIED PRODUCTS	692.4	695.6	690.9	692.8	701.5	522.7	524.5	520.0	522.0	531.0
261, 26	Paper and pulp mills	201.4	204.1	203.1	204.3	-	150.6	152.6	152.4	153.5	-
262	Paper mills, except building paper	174.2	176.2	175.6	176.3	-	129.0	130.5	130.7	131.3	-
263	Paperboard mills	65.4	65.9	64.5	64.4	-	51.3	51.8	50.5	50.6	-
264	Misc. converted paper products	220.0	220.9	220.2	220.4	-	163.4	163.7	162.2	162.4	-
2641	Paper coating and glazing	55.7	56.1	56.5	56.6	-	36.4	36.4	36.1	36.2	-
2642	Envelopes	25.3	25.3	25.8	25.5	-	20.0	20.0	20.2	19.9	-
2643	Bags, except textile bags	49.9	49.2	50.1	49.8	-	38.7	38.1	39.2	38.9	-
265	Paperboard containers and boxes	205.6	204.7	203.1	203.7	-	157.4	156.4	154.9	155.5	-
2651	Folding paperboard boxes	41.8	42.0	41.9	42.3	-	33.0	33.2	32.6	33.1	-
2653	Corrugated and solid fiber boxes	106.5	105.3	105.2	105.3	-	78.0	76.9	77.0	77.2	-
2654	Sanitary food containers	26.4	26.3	26.3	26.6	-	21.7	21.5	21.6	21.8	-
	PRINTING AND PUBLISHING	1,254.3	1,257.7	1,280.4	1,281.8	1,285.3	699.6	700.2	711.1	710.4	710.2
271	Newspapers	421.6	424.1	426.8	430.1	-	164.2	164.0	163.6	165.3	-
272	Periodicals	86.9	87.5	90.8	90.7	-	16.0	16.5	17.6	17.9	-
273	Books	102.4	101.7	103.6	102.9	-	53.0	52.4	54.6	53.8	-
2731	Book publishing	72.7	71.8	73.3	73.0	-	28.3	27.4	29.3	28.9	-
2732	Book printing	29.7	29.9	30.3	29.9	-	24.7	25.0	25.3	24.9	-
274	Miscellaneous publishing	49.0	49.0	50.7	50.3	-	27.0	26.5	26.9	26.3	-
275	Commercial printing	414.9	415.6	430.4	430.0	-	306.9	307.8	317.6	316.8	-
2751	Commercial printing, letterpress	164.1	164.5	169.9	169.6	-	120.7	121.5	125.9	125.6	-
2752	Commercial printing, lithographic	228.4	229.1	237.2	237.4	-	167.9	168.3	172.5	172.3	-
276	Manifold business forms	49.5	49.3	48.2	48.4	-	34.2	34.2	33.4	33.5	-
278	Blankbooks and bookbinding	61.2	61.2	61.1	60.6	-	50.1	50.3	50.1	49.2	-
279	Printing trade services	44.0	44.0	44.9	44.7	-	32.7	32.6	33.3	33.4	-
	CHEMICALS AND ALLIED PRODUCTS	1,114.3	1,116.8	1,106.2	1,110.6	1,119.1	632.7	631.3	628.7	632.2	640.1
281	Industrial inorganic chemicals	163.0	163.6	163.3	163.6	-	89.4	89.5	89.6	89.6	-
2819	Industrial inorganic chemicals, nec	107.2	107.6	107.7	107.9	-	59.3	59.7	58.9	58.7	-
282	Plastics materials and synthetics	210.1	206.3	200.7	201.6	-	141.4	136.9	132.9	134.1	-
2821	Plastics materials and resins	82.4	81.4	79.7	80.0	-	49.8	48.3	46.8	47.3	-
2824	Organic fibers, noncellulosic	98.7	96.9	94.4	95.1	-	70.5	68.4	66.6	67.3	-
283	Drugs	196.8	199.2	199.4	200.0	-	97.1	97.9	98.9	100.3	-
2834	Pharmaceutical preparations	154.7	156.5	157.3	157.3	-	73.6	74.4	76.5	77.4	-
284	Soap, cleaners, and toilet goods	137.6	139.5	137.8	138.3	-	83.1	84.5	85.8	86.0	-
2841	Soap and other detergents	42.1	42.4	40.0	40.2	-	27.1	27.2	26.2	26.3	-
2844	Toilet preparations	53.9	55.0	56.1	56.1	-	33.4	34.7	37.1	37.0	-
2842, 3	Polishing, sanitation, and finishing preparations	41.6	42.1	41.7	42.0	-	22.6	22.6	22.5	22.7	-
285	Paints and allied products	65.9	66.2	64.5	65.0	-	33.5	33.7	32.0	32.4	-
286	Industrial organic chemicals	171.8	173.7	170.5	170.6	-	86.9	88.6	86.7	86.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	35.7	35.9	35.2	35.0	-	21.6	22.4	21.5	21.5	-
2861.9	Gum, wood, and industrial organic chemicals, nec.	136.1	137.8	135.3	135.6	-	65.3	66.2	65.2	64.8	-
287	Agricultural chemicals	75.9	74.3	75.1	75.6	-	49.0	47.1	48.0	48.2	-
289	Miscellaneous chemical products	93.2	94.0	94.9	95.9	-	52.3	53.1	54.8	55.3	-
29	PETROLEUM AND COAL PRODUCTS	202.7	208.5	209.5	212.7	214.0	130.7	134.7	132.6	136.4	138.9
291	Petroleum refining	159.7	165.1	168.1	169.2	-	99.5	103.5	102.8	104.8	-
295	Paving and roofing materials	30.5	30.9	28.8	30.9	-	23.2	23.2	21.8	23.5	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	724.1	711.0	743.5	749.0	758.1	553.0	541.3	574.4	579.2	586.8
301	Tires and inner tubes	122.0	121.4	121.8	121.4	-	84.1	84.3	86.2	85.2	-
302	Rubber and plastics footwear	21.5	21.8	20.3	20.2	-	19.0	19.4	18.0	17.9	-
303.4	Reclaimed rubber, and rubber and plastics hose and belting	22.9	22.8	23.6	23.5	-	16.1	15.5	16.6	16.6	-
306	Fabricated rubber products, nec.	104.1	101.5	106.0	107.0	-	80.2	78.1	82.7	83.6	-
307	Miscellaneous plastics products	453.6	443.5	471.8	476.9	-	353.6	344.0	370.9	375.9	-
31	LEATHER AND LEATHER PRODUCTS	236.1	236.8	231.7	236.0	240.1	199.1	200.2	195.6	200.0	203.1
311	Leather tanning and finishing	19.2	19.3	20.1	20.5	-	16.0	16.0	17.0	17.3	-
314	Footwear, except rubber	147.9	149.1	142.5	145.1	-	126.7	128.0	122.0	124.7	-
3143	Men's footwear, except athletic	55.8	56.4	57.1	57.7	-	48.3	48.8	48.9	49.4	-
3144	Women's footwear, except athletic	59.3	59.9	51.6	53.3	-	50.1	50.9	43.9	45.8	-
316	Luggage	16.4	16.2	15.7	16.4	-	12.2	12.2	12.0	12.7	-
317	Handbags and personal leather goods	29.1	28.7	29.0	29.3	-	24.6	24.4	24.1	24.5	-
-	TRANSPORTATION AND PUBLIC UTILITIES	5,156	5,177	5,120	5,141	5,214	4,308	4,320	4,252	4,264	4,335
40	RAILROAD TRANSPORTATION	546.5	539.3	515.2	510.7	-	-	-	-	-	-
4011	Class I railroads ²	491.7	485.3	465.2	461.2	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	278.3	268.3	275.3	279.7	-	257.5	246.5	255.4	260.1	-
411	Local and suburban transportation	78.3	78.5	83.3	83.4	-	71.4	71.6	76.3	76.3	-
412	Taxicabs	54.0	53.0	50.9	50.8	-	-	-	-	-	-
413	Intercity highway transportation	38.1	39.4	38.3	39.6	-	35.2	36.4	35.3	36.7	-
415	School buses	91.7	81.5	88.1	90.2	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,250.6	1,269.8	1,226.1	1,233.7	-	1,104.1	1,112.6	1,067.3	1,071.5	-
421.3	Trucking and trucking terminals	1,173.6	1,183.8	1,146.1	1,155.1	-	1,030.2	1,039.7	1,000.3	1,006.1	-
422	Public warehousing	87.0	86.0	80.0	78.6	-	73.9	72.9	67.0	65.4	-
44	WATER TRANSPORTATION	218.4	224.9	209.5	212.0	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	458.9	457.6	458.4	459.7	-	-	-	-	-	-
451.2	Air transportation	409.3	407.8	408.4	408.6	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	21.2	22.2	21.6	21.7	-	15.1	16.0	15.1	15.2	-
47	TRANSPORTATION SERVICES	197.6	197.2	199.1	200.7	-	-	-	-	-	-
48	COMMUNICATION	1,347.4	1,359.2	1,358.0	1,361.2	-	1,006.6	1,013.4	1,014.7	1,015.9	-
481	Telephone communication	1,068.8	1,077.5	1,066.2	1,067.2	-	777.9	782.4	776.6	776.4	-
483	Radio and television broadcasting	196.2	198.5	200.5	201.3	-	156.9	158.6	161.3	162.4	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	827.1	838.0	856.7	861.9	-	676.9	686.2	699.3	703.3	-
491	Electric services	391.1	396.5	407.6	409.9	-	315.8	320.3	330.4	332.3	-
492	Gas production and distribution	167.0	171.2	171.6	173.3	-	136.4	141.2	139.8	141.1	-
493	Combination utility services	197.5	197.5	205.8	206.6	-	163.0	161.9	167.3	168.0	-
495	Sanitary services	48.2	49.1	48.2	48.6	-	42.5	43.2	42.3	42.4	-
-	WHOLESALE AND RETAIL TRADE	20,279	20,347	20,513	20,672	20,759	17,787	17,839	17,905	18,062	18,128
50,51	WHOLESALE TRADE	5,264	5,287	5,317	5,337	5,377	4,305	4,327	4,329	4,345	4,381
50	WHOLESALE TRADE - DURABLE GOODS	3,122	3,125	3,165	3,175	-	2,552	2,555	2,572	2,579	-
501	Motor vehicles and automotive equipment	416.2	416.8	415.1	415.6	-	336.8	336.6	333.7	334.2	-
502	Furniture and home furnishing	113.4	114.6	118.6	119.3	-	92.6	93.6	96.7	96.8	-
503	Lumber and construction materials	188.3	188.5	193.9	195.2	-	154.3	154.3	159.7	161.1	-
504	Sporting goods, toys, and hobby goods	69.8	69.9	73.9	74.6	-	57.2	57.2	59.2	59.7	-
505	Metals and minerals, except petroleum	152.8	151.7	154.6	154.9	-	123.8	122.6	124.2	124.7	-
506	Electrical goods	417.7	419.1	419.8	421.2	-	340.4	341.2	338.3	338.7	-
507	Hardware, plumbing, and heating equipment	241.6	242.4	244.1	245.1	-	198.3	199.1	199.8	200.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,315.2	1,318.8	1,337.3	1,341.3	-	1,073.3	1,078.5	1,085.1	1,087.8	-
509	Miscellaneous durable goods	206.5	203.0	207.7	207.8	-	174.9	171.8	175.7	175.2	-
51	WHOLESALE TRADE-NONDURABLE GOODS	2,142	2,162	2,152	2,162	-	1,753	1,772	1,757	1,766	-
511	Paper and paper products	150.8	151.7	154.0	154.9	-	123.1	123.9	125.1	125.2	-
512	Drugs, proprietaries, and sundries	146.2	146.7	149.7	150.5	-	123.8	124.1	126.7	127.0	-
513	Apparel, piece goods, and notions	166.8	168.4	166.6	166.7	-	132.2	133.7	130.7	131.0	-
514	Groceries and related products	664.9	679.9	671.2	679.7	-	572.8	587.4	574.2	582.8	-
516	Chemicals and allied products	127.2	127.8	127.5	128.7	-	93.4	93.6	91.6	92.3	-
517	Petroleum and petroleum products	221.8	223.6	225.6	225.4	-	162.5	164.2	169.6	170.2	-
518	Beer, wine, and distilled beverages	136.0	138.8	140.6	140.9	-	114.5	117.1	117.6	117.9	-
519	Miscellaneous nondurable goods	390.7	388.2	384.5	386.2	-	319.2	315.8	314.2	315.6	-
52-59	RETAIL TRADE	15,015	15,060	15,196	15,335	15,382	13,482	13,512	13,576	13,717	13,747
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	630.5	627.9	624.7	635.7	-	533.8	531.5	528.4	538.7	-
521	Lumber and other building materials	324.2	328.2	322.9	330.5	-	273.7	277.8	272.8	280.0	-
525	Hardware stores	150.1	150.3	147.8	150.0	-	128.9	129.0	125.9	127.9	-
53	GENERAL MERCHANDISE STORES	2,183.3	2,186.0	2,191.1	2,210.5	-	2,031.5	2,033.7	1,970.3	1,995.6	-
531	Department stores	1,808.2	1,810.6	1,823.5	1,837.8	-	1,693.1	1,695.4	1,639.1	1,659.8	-
533	Variety stores	256.1	255.7	249.9	252.4	-	237.0	236.2	231.2	233.0	-
539	Misc. general merchandise stores	119.0	119.7	117.7	120.3	-	101.4	102.1	100.0	102.8	-
54	FOOD STORES	2,368.1	2,384.8	2,431.0	2,436.0	-	2,187.0	2,202.3	2,252.2	2,257.3	-
541	Grocery stores	2,073.1	2,086.9	2,127.3	2,133.7	-	1,917.7	1,931.1	1,975.6	1,981.3	-
542	Meat markets and freezer provisioners	55.3	55.7	57.1	55.5	-	-	-	-	-	-
546	Retail bakeries	128.8	129.1	126.6	127.4	-	118.7	118.8	116.2	117.2	-
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,691.3	1,687.5	1,670.4	1,676.1	-	1,432.1	1,428.8	1,414.2	1,419.3	-
551.2	New and used car dealers	788.5	776.3	766.3	767.0	-	645.3	635.1	627.7	627.2	-
553	Auto and home supply stores	259.6	262.6	264.4	267.6	-	225.0	227.5	228.3	231.3	-
554	Gasoline service stations	561.8	566.4	559.9	560.7	-	489.9	493.7	490.1	491.5	-
56	APPAREL AND ACCESSORY STORES	940.3	941.7	971.5	963.2	-	804.4	804.1	830.2	822.1	-
561	Men's and boys' clothing and furnishings	131.5	132.6	131.3	130.1	-	111.1	112.3	110.6	109.9	-
562	Women's ready-to-wear stores	344.9	341.6	351.9	350.6	-	298.6	294.7	304.0	303.7	-
565	Family clothing stores	174.6	176.7	181.2	181.4	-	151.7	152.9	158.1	157.8	-
566	Shoe stores	193.4	193.6	205.7	199.3	-	160.8	160.8	171.0	163.8	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	604.3	598.6	602.7	602.0	-	499.6	495.4	497.7	497.6	-
571	Furniture and home furnishings stores	375.1	376.0	376.1	378.0	-	312.2	313.1	311.9	313.0	-
572	Household appliance stores	81.4	80.8	80.9	81.1	-	69.9	69.5	69.2	69.1	-
573	Radio, television, and music stores	147.8	141.8	145.7	142.9	-	117.5	112.8	116.6	115.5	-
58	EATING AND DRINKING PLACES	4,712.1	4,764.1	4,799.4	4,890.8	-	4,339.7	4,381.9	4,426.2	4,513.6	-
59	MISCELLANEOUS RETAIL	1,885.0	1,869.2	1,904.7	1,920.2	-	1,654.3	1,634.2	1,657.2	1,672.6	-
591	Drug stores and proprietary stores	490.5	490.1	475.1	478.6	-	446.7	444.5	429.9	432.1	-
592	Liquor stores	126.6	127.8	124.5	127.2	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	576.6	572.0	603.8	610.5	-	492.0	486.7	512.9	519.2	-
596	Nonstore retailers	259.9	255.6	266.0	263.1	-	242.0	237.8	244.9	242.5	-
598	Fuel and ice dealers	102.2	101.7	102.9	101.5	-	85.4	85.3	86.0	84.4	-
599	Retail stores, nec.	270.8	261.4	273.7	281.3	-	230.1	218.7	229.5	237.7	-
	FINANCE, INSURANCE, AND REAL										
	ESTATE ²	5,143	5,206	5,295	5,322	5,382	3,900	3,953	3,997	4,019	4,073
60	BANKING	1,559.7	1,575.3	1,612.0	1,616.9	-	1,202.8	1,214.2	1,232.5	1,235.3	-
602	Commercial and stock savings banks	1,424.2	1,437.5	1,469.2	1,473.8	-	1,092.0	1,101.1	1,116.9	1,119.8	-
61	CREDIT AGENCIES OTHER THAN BANKS	560.1	559.4	580.0	579.5	-	423.4	421.1	440.8	440.9	-
612	Savings and loan associations	242.8	244.0	267.0	267.3	-	185.1	185.1	202.6	203.1	-
614	Personal credit institutions	206.0	203.6	199.9	199.2	-	155.1	152.4	154.1	153.9	-
82	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	218.3	221.8	239.8	241.4	-	-	-	-	-	-
821	Security brokers and dealers	176.6	179.3	195.9	197.6	-	-	-	-	-	-
83	INSURANCE CARRIERS	1,215.7	1,225.2	1,233.7	1,236.3	-	850.9	858.3	857.1	855.7	-
831	Life insurance	525.0	531.6	532.4	534.8	-	319.3	324.8	330.8	330.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	141.7	142.2	144.9	144.7	-	113.4	114.3	115.5	115.1	-
633	Fire, marine, and casualty insurance	478.2	481.4	483.1	483.4	-	362.4	364.1	353.5	353.4	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	450.5	454.1	465.4	465.3	-	-	-	-	-	-
65	REAL ESTATE	1,002.2	1,032.5	1,018.4	1,036.1	-	-	-	-	-	-
651	Real estate operators and lessors	458.9	473.1	474.3	474.5	-	-	-	-	-	-
653	Real estate agents and managers	381.2	392.9	382.0	389.4	-	-	-	-	-	-
655	Subdividers and developers	141.1	145.4	140.3	150.3	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC.	20.8	21.0	21.2	21.0	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES.	115.2	116.6	124.5	125.4	-	-	-	-	-	-
-	SERVICES	17,903	18,013	18,512	18,629	18,752	15,943	16,047	16,474	16,578	16,675
70	HOTELS AND OTHER LODGING PLACES	1,113.7	1,158.3	1,092.0	1,119.4	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	1,081.2	1,117.9	1,058.7	1,083.4	-	994.7	1,029.5	969.4	994.1	-
72	PERSONAL SERVICES	890.6	889.4	904.8	884.7	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	356.0	357.0	353.9	355.2	-	318.0	318.8	315.8	317.4	-
723	Beauty shops	285.6	284.4	284.0	284.6	-	266.0	265.1	264.1	265.0	-
726	Funeral service and crematories	69.4	70.4	72.3	72.5	-	-	-	-	-	-
73	BUSINESS SERVICES	3,064.5	3,079.7	3,255.1	3,290.9	-	2,672.4	2,685.8	2,847.1	2,881.8	-
731	Advertising	152.6	152.8	155.7	155.8	-	115.5	115.9	119.1	119.4	-
732	Credit reporting and collection	73.9	73.5	71.5	72.1	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	117.3	119.3	126.3	126.4	-	-	-	-	-	-
734	Services to buildings	497.8	501.0	512.4	520.7	-	451.4	454.9	464.0	472.9	-
736	Personnel supply services	548.4	534.2	595.4	602.4	-	-	-	-	-	-
737	Computer and data processing services	301.9	305.6	336.7	339.6	-	250.2	255.1	282.2	284.3	-
75	AUTO REPAIR, SERVICES, AND GARAGES	574.1	576.3	575.4	577.0	-	490.2	492.2	489.7	492.0	-
753	Automotive repair shops	348.2	352.8	353.1	353.0	-	295.2	300.1	298.6	298.9	-
76	MISCELLANEOUS REPAIR SERVICES	284.5	285.9	292.2	295.0	-	243.8	245.6	244.2	246.8	-
78	MOTION PICTURES	221.4	232.9	210.5	210.3	-	194.6	204.8	180.1	179.2	-
781	Motion picture production and services	78.3	83.4	71.4	69.4	-	65.0	68.4	59.4	56.6	-
783	Motion picture theaters	131.9	137.8	128.1	130.0	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	814.9	876.6	791.8	850.2	-	744.9	803.5	717.2	770.9	-
80	HEALTH SERVICES	5,220.8	5,277.9	5,461.7	5,481.0	-	4,652.3	4,716.7	4,883.4	4,898.3	-
801	Offices of physicians	741.7	746.7	771.5	775.2	-	605.6	613.3	633.4	635.5	-
802	Offices of dentists	338.6	340.2	352.2	354.0	-	294.0	296.4	309.8	312.0	-
805	Nursing and personal care facilities	994.1	1,007.5	1,034.9	1,041.7	-	894.5	907.9	935.7	942.0	-
806	Hospitals	2,714.2	2,750.0	2,846.3	2,851.7	-	2,486.9	2,524.3	2,608.1	2,612.8	-
81	LEGAL SERVICES	491.2	505.7	524.9	527.0	-	422.2	435.2	448.5	450.0	-
82	EDUCATIONAL SERVICES	1,148.4	1,032.0	1,203.2	1,164.4	-	-	-	-	-	-
821	Elementary and secondary schools	297.2	289.8	304.5	305.4	-	-	-	-	-	-
822	Colleges and universities	734.2	625.8	775.6	736.5	-	-	-	-	-	-
83	SOCIAL SERVICES	1,142.9	1,138.0	1,193.6	1,195.3	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,558.8	1,564.2	1,583.2	1,594.6	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	982.8	995.6	1,035.3	1,027.4	-	820.9	831.5	866.0	858.0	-
891	Engineering and architectural services	537.1	547.5	559.9	563.9	-	456.8	466.6	475.1	478.4	-
893	Accounting, auditing, and bookkeeping	311.9	315.8	342.4	330.7	-	252.6	254.7	279.8	268.6	-
-	GOVERNMENT	16,643	16,477	16,457	16,410	16,180	-	-	-	-	-
-	FEDERAL GOVERNMENT	2,963	2,995	2,773	2,783	2,822	-	-	-	-	-
-	Executive, by agency ⁴	2,908.2	2,939.1	2,718.5	2,728.4	-	-	-	-	-	-
-	Department of Defense	895.1	909.8	899.1	908.9	-	-	-	-	-	-
-	Postal Service	659.3	661.7	658.4	659.4	-	-	-	-	-	-
-	Other executive agencies	1,353.8	1,367.6	1,161.0	1,160.1	-	-	-	-	-	-
-	Legislative	40.2	41.3	39.1	39.4	-	-	-	-	-	-
-	Judicial	14.3	14.6	15.0	15.1	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
	FEDERAL GOVERNMENT—Continued										
	Federal Government, by industry										
-	Manufacturing activities	109.0	109.1	103.5	108.2	-	-	-	-	-	-
3731	Shipbuilding and repairing	56.7	56.7	57.1	57.5	-	-	-	-	-	-
-	Transportation and public utilities, except										
-	Postal Service	40.5	41.5	41.0	39.4	-	-	-	-	-	-
-	Services	415.2	418.7	402.9	404.3	-	-	-	-	-	-
808	Federal government hospitals	236.5	237.6	230.9	229.3	-	-	-	-	-	-
	STATE AND LOCAL GOVERNMENT	13,680	13,482	13,684	13,627	13,358	-	-	-	-	-
-	State government	3,647.0	3,493.2	3,652.9	3,608.1	-	-	-	-	-	-
806	State government hospitals	531.5	534.3	533.5	532.5	-	-	-	-	-	-
82	State education	1,444.7	1,264.5	1,462.2	1,415.8	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions	1,034.9	1,049.0	1,031.4	1,033.5	-	-	-	-	-	-
-	Local government	10033.0	9,988.6	10031.4	10018.6	-	-	-	-	-	-
-	Transportation and public utilities	608.7	619.0	633.5	635.9	-	-	-	-	-	-
806	Local government hospitals	600.0	606.5	622.6	624.1	-	-	-	-	-	-
82	Local education	5,493.4	5,291.7	5,466.0	5,453.7	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions	2,948.1	3,061.2	2,934.1	2,930.0	-	-	-	-	-	-

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

² Beginning January 1978, data relate to line haul railroads with operating revenues of \$50,000,000 or more.

³ Data for nonoffice sales agents excluded from nonsupervisory count for all series in this division.

⁴ Prepared by the Office of Personnel Management. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

- Data not available.
p = preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, updated seasonal adjustment factors, and rebased indexes. Because of these revisions, data in this table may differ from data published earlier. See article in this issue for additional information.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	Mar. 1980	Apr. 1980	Feb. 1981	Mar. 1981	Apr. 1981
	TOTAL	38,135	38,323	38,734	38,914	39,143
	PRIVATE SECTOR	30,155	30,250	30,726	30,885	31,124
	MINING	99	100	116	118	113
10	METAL MINING	8.8	9.0	9.6	9.4	9.1
11, 12	COAL MINING	10.1	10.3	11.3	11.6	4.4
13	OIL AND GAS EXTRACTION	70.5	71.4	85.4	87.4	89.2
131, 2	Crude petroleum, natural gas, and natural gas liquids	45.5	46.5	55.2	56.3	57.8
138	Oil and gas field services	25.0	24.9	30.2	31.1	31.4
14	NONMETALLIC MINERALS, EXCEPT FUELS	9.3	9.5	9.4	9.7	9.8
142	Crushed and broken stone	2.6	2.7	2.5	2.6	2.6
144	Sand and gravel	3.0	3.1	2.9	3.1	3.2
	CONSTRUCTION	367	371	383	387	391
	GENERAL BUILDING CONTRACTORS	131.3	132.5	136.3	137.6	138.6
152	Residential building construction	77.0	78.4	80.0	80.7	82.0
153	Operative builders	14.9	14.3	14.7	14.8	14.9
154	Nonresidential building construction	39.4	39.8	41.6	42.1	41.7
	HEAVY CONSTRUCTION CONTRACTORS	56.2	58.6	56.2	57.2	59.2
161	Highway and street construction	15.0	16.6	14.2	14.5	15.9
162	Heavy construction, except highway	41.2	42.0	42.0	42.7	43.3
	SPECIAL TRADE CONTRACTORS	179.6	180.3	190.2	191.8	193.6
171	Plumbing, heating, air conditioning	49.6	49.8	52.3	52.2	52.9
172	Painting, paper hanging, decorating	11.5	11.6	12.2	12.4	12.5
173	Electrical work	32.3	33.0	36.1	36.5	36.6
174	Masonry, stonework, and plastering	20.9	20.4	22.5	22.9	22.6
175	Carpentering and flooring	14.2	14.3	15.4	15.6	15.6
176	Roofing and sheet metal work	12.9	13.1	13.2	13.6	13.6
	MANUFACTURING	6,447	6,387	6,260	6,294	6,333
24, 25, 32-39	DURABLE GOODS	3,114	3,078	3,006	3,024	3,051
20-23, 26-31	NONDURABLE GOODS	3,333	3,309	3,254	3,270	3,282
	DURABLE GOODS					
	LUMBER AND WOOD PRODUCTS	110.4	104.2	102.7	103.5	105.2
241	Logging camps and logging contractors	5.0	5.0	5.0	5.3	5.3
242	Sawmills and planing mills	22.6	21.6	20.0	20.0	20.0
2421	Sawmills and planing mills, general	15.8	15.1	14.2	14.2	14.1
243	Millwork, plywood, and structural members	44.8	41.8	42.5	42.7	43.7
244	Wood containers	7.3	6.8	6.9	6.9	6.9
245	Wood buildings and mobile homes	9.3	8.4	7.7	8.0	8.5
249	Miscellaneous wood products	21.4	20.6	20.6	20.6	20.8
	FURNITURE AND FIXTURES	144.7	144.1	142.6	142.9	145.1
251	Household furniture	105.4	104.9	102.8	102.8	104.8
2511	Wood household furniture	44.4	43.8	44.2	44.2	44.3
2512	Upholstered household furniture	35.0	35.0	33.8	34.1	35.1
2515	Mattresses and bedsprings	8.7	8.6	8.3	8.4	8.3
252	Office furniture	12.6	12.7	13.0	13.1	13.0
253	Public building and related furniture	5.2	5.2	5.1	5.2	5.2
254	Partitions and fixtures	10.6	10.8	10.6	10.6	10.9
259	Miscellaneous furniture and fixtures	10.9	10.5	11.1	11.2	11.2
	STONE, CLAY, AND GLASS PRODUCTS	131.6	129.7	125.3	125.3	126.4
322	Glass and glassware, pressed or blown	42.5	42.3	40.2	40.4	40.7
3221	Glass containers	24.0	23.5	22.3	22.5	22.6
3229	Pressed and blown glass, nec	18.5	18.8	17.9	17.9	18.1
323	Products of purchased glass	14.1	13.6	13.3	13.2	13.2
324	Cement, hydraulic	1.6	1.6	1.7	1.7	1.7
325	Structural clay products	7.1	6.8	6.4	6.2	6.5
326	Pottery and related products	16.6	16.1	14.9	14.7	14.4
327	Concrete, gypsum, and plaster products	15.1	15.2	14.8	14.6	14.9
329	Misc. nonmetallic mineral products	31.8	31.4	31.2	31.7	32.1
	PRIMARY METAL INDUSTRIES	132.5	131.5	124.4	125.2	126.8
331	Blast furnace and basic steel products	42.7	42.6	40.4	40.6	41.6
3312	Blast furnaces and steel mills	32.4	32.2	30.1	30.6	31.6
332	Iron and steel foundries	19.5	19.5	18.4	18.3	18.3

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry—Continued

(In thousands)

1972 SIC Code	Industry	Mar. 1980	Apr. 1980	Feb. 1981	Mar. 1981	Apr. 1981
PRIMARY METAL INDUSTRIES—Continued						
3321	Gray iron foundries	9.0	8.9	8.8	8.9	8.9
3322	Malleable iron foundries	1.3	1.3	1.1	1.0	1.1
3325	Steel foundries, nec	5.4	5.5	4.8	4.8	4.8
333	Primary nonferrous metals	5.1	5.2	5.1	5.1	5.2
3334	Primary aluminum	2.1	2.2	2.2	2.2	2.3
335	Nonferrous rolling and drawing	43.0	42.4	39.4	39.8	40.0
3351	Copper rolling and drawing	3.7	3.7	3.4	3.5	3.5
3353	Aluminum sheet, plate, and foil	4.3	4.3	3.9	3.9	4.0
3357	Nonferrous wire drawing and insulating	26.1	25.6	23.8	24.3	24.4
336	Nonferrous foundries	16.3	15.9	15.4	15.6	15.8
3361	Aluminum foundries	8.3	8.1	7.9	8.0	8.0
34	FABRICATED METAL PRODUCTS	354.3	346.9	331.6	334.2	338.1
341	Metal cans and shipping containers	13.8	13.6	12.8	12.5	12.7
3411	Metal cans	12.0	11.8	11.0	10.7	10.9
342	Cutlery, hand tools, and hardware	61.0	58.6	56.7	57.6	58.3
3423, 5	Hand and edge tools, and hand saws and blades	17.5	17.2	16.4	16.5	16.3
3429	Hardware, nec	36.2	34.3	33.4	34.3	35.2
343	Plumbing and heating, except electric	18.9	18.2	16.1	16.3	16.5
344	Fabricated structural metal products	73.7	71.9	70.5	70.8	71.4
3441	Fabricated structural metal	7.8	7.7	7.3	7.3	7.4
3442	Metal doors, sash, and trim	21.3	19.9	19.6	19.4	19.6
3443	Fabricated plate work (boiler shops)	18.0	17.9	18.4	18.6	18.7
3444	Sheet metal work	16.6	16.3	15.7	15.8	16.0
345	Screw machine products, bolts, etc.	26.2	25.9	23.5	23.5	23.7
3451	Screw machine products	13.3	13.0	12.1	12.1	12.2
3452	Bolts, nuts, rivets, and washers	12.9	12.9	11.4	11.4	11.5
346	Metal forgings and stampings	54.7	53.4	51.5	52.0	53.3
3462	Iron and steel forgings	4.3	4.3	4.3	4.3	4.2
3465	Automotive stampings	13.5	12.5	11.9	12.5	13.3
3469	Metal stampings, nec	34.5	34.0	32.8	32.7	33.2
347	Metal services, nec	25.2	25.2	23.6	24.1	24.5
3471	Plating and polishing	17.5	17.3	16.8	17.1	17.4
3479	Metal coating and allied services	7.7	7.9	6.8	7.0	7.1
348	Ordnance and accessories, nec	17.4	17.4	17.2	17.2	17.3
349	Misc. fabricated metal products	63.4	62.7	59.7	60.2	60.4
3494	Valves and pipe fittings	24.6	24.4	22.5	22.8	23.0
3496	Misc. fabricated wire products	15.4	15.3	14.3	14.6	14.7
35	MACHINERY, EXCEPT ELECTRICAL	502.4	500.3	500.6	502.3	503.1
351	Engines and turbines	26.4	26.3	24.4	23.4	22.7
3511	Turbines and turbine generator sets	6.0	6.1	6.1	6.1	6.0
3519	Internal combustion engines, nec	20.4	20.2	18.3	17.3	16.7
352	Farm and garden machinery	29.0	28.2	28.2	28.7	28.1
3523	Farm machinery and equipment	21.4	21.0	20.9	21.2	20.9
353	Construction and related machinery	48.8	48.2	50.5	51.2	51.2
3531	Construction machinery	15.6	14.6	14.7	14.9	15.0
3533	Oil field machinery	12.8	12.9	14.7	15.0	15.1
354	Metalworking machinery	59.4	59.3	56.9	57.0	57.1
3541	Machine tools, metal cutting types	10.7	10.7	10.8	10.8	10.8
3544	Special dies, tools, jigs, and fixtures	15.9	15.6	15.2	15.1	15.5
3545	Machine tool accessories	14.2	14.4	13.2	13.3	13.6
355	Special industry machinery	31.0	31.2	30.6	30.6	30.6
3551	Food products machinery	6.7	6.7	5.9	6.0	5.9
3552	Textile machinery	5.3	5.3	5.1	4.9	5.0
3555	Printing trades machinery	6.4	6.6	7.2	7.2	7.3
356	General industrial machinery	65.1	64.4	62.7	62.9	62.8
3561	Pumps and pumping equipment	11.9	11.9	11.6	11.6	11.5
3562	Ball and roller bearings	14.4	14.3	14.3	14.2	14.2
357	Office and computing machines	150.6	151.5	158.4	159.1	159.9
3573	Electronic computing equipment	122.3	123.3	130.7	131.4	132.0
358	Refrigeration and service machinery	40.4	39.8	39.3	39.4	39.5
3585	Refrigeration and heating equipment	27.6	26.9	27.0	27.0	27.0
359	Misc. machinery, except electrical	51.7	51.4	49.6	50.0	51.2
3599	Machinery, except electrical, nec	40.9	40.7	38.9	38.9	39.5
36	ELECTRIC AND ELECTRONIC EQUIPMENT	921.5	916.8	898.3	904.0	910.3
361	Electric distributing equipment	46.8	46.5	46.2	46.2	46.2
3612	Transformers	20.2	19.8	18.3	19.1	18.7
3613	Switchgear and switchboard apparatus	26.6	26.7	27.3	27.1	27.5
362	Electrical industrial apparatus	95.5	95.3	90.0	90.9	91.7
3621	Motors and generators	52.1	52.2	49.3	50.3	50.8
3622	Industrial controls	30.4	30.3	28.5	28.3	28.5
363	Household appliances	61.3	60.4	60.2	61.3	61.9
3632	Household refrigerators and freezers	9.8	9.5	10.3	11.1	11.2
3633	Household laundry equipment	4.7	4.2	4.1	4.1	4.2
3634	Electric housewares and fans	28.1	28.4	28.6	28.5	28.4
364	Electric lighting and wiring equipment	102.7	101.5	94.7	96.0	96.7
3641	Electric lamps	23.6	23.4	21.8	21.6	21.3

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry—Continued

[In thousands]

1972 SIC Code	Industry	Mar. 1980	Apr. 1980	Feb. 1981	Mar. 1981	Apr. 1981
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	45.0	45.1	41.9	42.4	43.2
365	Radio and TV receiving equipment	59.4	59.2	58.4	58.2	58.0
3651	Radio and TV receiving sets	44.8	44.9	45.0	44.9	44.6
366	Communication equipment	207.2	207.2	206.7	206.9	207.0
3661	Telephone and telegraph apparatus	82.8	82.3	76.2	75.4	75.3
3662	Radio and TV communication equipment	124.4	124.9	130.5	131.5	131.7
367	Electronic components and accessories	292.4	292.8	285.5	286.8	289.8
3671-3	Electronic tubes	16.0	16.1	16.4	16.4	16.5
3674	Semiconductors and related devices	105.6	106.7	107.7	108.1	109.4
3679	Electronic components, nec	117.4	116.8	114.6	115.2	116.2
369	Misc. electrical equipment and supplies	56.2	53.9	57.2	57.7	59.0
3694	Engine electrical equipment	25.7	24.5	27.9	28.4	29.4
TRANSPORTATION EQUIPMENT						
37	Motor vehicles and equipment	309.4	296.8	292.2	295.4	301.0
371	Motor vehicles and equipment	120.4	111.1	99.1	100.5	104.2
3711	Motor vehicles and car bodies	46.7	40.1	34.6	35.1	36.9
3713	Truck and bus bodies	4.5	4.7	3.9	3.7	3.9
3714	Motor vehicle parts and accessories	65.8	63.0	57.1	58.1	59.8
372	Aircraft and parts	119.6	118.4	123.3	124.4	124.5
3721	Aircraft	65.6	64.0	67.3	68.5	69.1
3724	Aircraft engines and engine parts	27.8	27.8	28.8	28.8	28.2
3728	Aircraft equipment, nec	26.2	26.6	27.2	27.1	27.2
373	Ship and boat building and repairing	22.8	21.9	22.9	23.6	23.9
3731	Ship building and repairing	16.1	16.0	16.6	16.9	17.0
374	Railroad equipment	7.2	7.1	5.7	5.5	5.6
376	Guided missiles, space vehicles, parts	23.3	23.6	26.1	25.9	26.5
3761	Guided missiles and space vehicles	19.4	19.6	21.7	21.5	22.0
379	Miscellaneous transportation equipment	8.4	7.0	7.0	7.3	7.7
INSTRUMENTS AND RELATED PRODUCTS						
38	Engineering and scientific instruments	304.8	305.9	302.3	302.5	304.1
381	Engineering and scientific instruments	23.6	23.7	24.5	24.5	24.4
382	Measuring and controlling devices	106.7	107.2	105.6	105.3	106.7
3822	Environmental controls	26.0	25.8	23.6	23.8	23.9
3823	Process control instruments	17.6	17.7	19.0	18.9	19.1
3825	Instruments to measure electricity	46.4	46.9	48.2	48.0	48.3
383	Optical instruments and lenses	11.7	11.6	11.3	11.2	11.2
384	Medical instruments and supplies	84.1	84.9	85.9	86.3	86.2
3841	Surgical and medical instruments	40.9	41.4	41.6	41.8	42.1
3842	Surgical appliances and supplies	35.1	35.5	36.0	36.1	35.8
385	Ophthalmic goods	26.2	26.3	24.8	25.0	25.2
386	Photographic equipment and supplies	37.4	37.4	38.7	38.8	39.3
387	Watches, clocks, and watchcases	15.1	14.8	11.5	11.4	11.1
MISCELLANEOUS MANUFACTURING INDUSTRIES						
39	Miscellaneous manufactures	202.3	202.2	185.8	188.5	190.7
391	Jewelry, silverware, and plated ware	25.8	25.3	24.9	25.1	25.4
393	Musical instruments	9.9	10.0	10.1	10.3	10.3
394	Toys and sporting goods	63.1	64.2	55.2	57.1	58.7
3942, 4	Dolls, games, toys, and children's vehicles	31.3	32.2	29.5	30.5	31.4
3949	Sporting and athletic goods, nec	31.8	32.0	25.7	26.6	27.3
395	Pens, pencils, office and art supplies	21.0	21.1	20.1	20.4	20.6
396	Costume jewelry and notions	31.5	31.1	27.1	27.3	27.2
399	Miscellaneous manufactures	51.0	50.5	48.4	48.3	48.5
NONDURABLE GOODS						
FOOD AND KINDRED PRODUCTS						
20	Food and kindred products	481.0	473.5	472.3	471.5	472.3
201	Meat products	112.6	113.2	111.9	111.5	111.9
2011	Meat packing plants	29.0	29.1	28.4	28.1	28.5
2013	Sausages and other prepared meats	20.3	20.2	20.0	19.9	20.1
2016	Poultry dressing plants	55.7	56.5	56.3	56.8	56.7
202	Dairy products	36.8	37.0	36.2	36.6	37.3
2026	Fluid milk	17.1	17.2	17.0	16.9	17.3
203	Preserved fruits and vegetables	89.8	87.1	84.4	85.9	83.6
2032	Canned specialties	8.7	8.8	8.8	8.8	8.4
2033	Canned fruits and vegetables	26.6	26.9	26.2	26.3	24.4
2037	Frozen fruits and vegetables	21.5	19.6	17.2	18.5	19.0
204	Grain mill products	29.2	28.8	29.9	29.4	28.8
205	Bakery products	59.7	59.4	56.8	57.3	57.5
2051	Bread, cake, and related products	39.6	39.3	37.8	38.1	38.4
2052	Cookies and crackers	20.1	20.1	19.0	19.2	19.1
206	Sugar and confectionery products	41.5	38.5	43.4	40.3	40.5
207	Fats and oils	5.8	5.8	6.0	6.1	6.0
208	Beverages	40.0	40.0	40.6	40.8	41.5
2082	Malt beverages	7.1	7.1	7.3	7.3	7.5
2086	Bottled and canned soft drinks	17.7	17.8	18.5	18.6	19.2
209	Misc. foods and kindred products	65.6	63.7	63.1	63.6	65.2
TOBACCO MANUFACTURES						
21	Tobacco manufactures	22.7	21.8	25.8	24.6	23.3
211	Cigarettes	13.9	13.9	15.2	15.1	14.9

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry—Continued

[In thousands]

1972 SIC Code	Industry	Mar. 1980	Apr. 1980	Feb. 1981	Mar. 1981	Apr. 1981
22	TEXTILE MILL PRODUCTS	414.6	413.3	396.1	396.0	398.1
221	Weaving mills, cotton	66.5	66.2	63.3	62.5	61.8
222	Weaving mills, synthetics	50.0	50.3	48.4	48.9	49.0
223	Weaving and finishing mills, wool	7.9	8.0	7.3	7.3	7.4
224	Narrow fabric mills	14.4	14.3	14.1	14.2	14.4
225	Knitting mills	144.1	143.9	138.0	138.2	140.1
2251	Women's hosiery, except socks	24.4	24.1	22.5	22.1	22.2
2252	Hosiery, nec	24.0	24.1	23.9	24.2	24.4
2253	Knit outerwear mills	48.1	48.2	47.3	47.8	49.4
2254	Knit underwear mills	24.1	23.7	23.7	23.6	23.4
2257	Circular knit fabric mills	13.9	13.9	12.0	12.1	12.2
226	Textile finishing, except wool	23.0	23.1	21.8	21.8	21.7
2261	Finishing plants, cotton	9.6	9.7	9.4	9.3	9.0
2262	Finishing plants, synthetic	6.2	6.4	6.3	6.3	6.5
227	Floor covering mills	23.6	23.6	22.0	22.0	22.2
228	Yarn and thread mills	64.3	63.5	61.4	61.6	61.8
2281	Yarn mills, except wool	40.0	39.5	39.0	39.0	39.2
2282	Throwing and winding mills	12.7	12.8	11.9	12.0	11.8
229	Miscellaneous textile goods	20.8	20.4	19.8	19.5	19.7
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,049.2	1,038.0	999.8	1,009.0	1,013.3
231	Men's and boys' suits and coats	58.4	59.2	59.8	59.4	59.6
232	Men's and boys' furnishings	309.1	310.0	289.7	291.0	296.1
2321	Men's and boys' shirts and nightwear	87.1	87.5	81.7	82.7	84.1
2327	Men's and boys' separate trousers	64.1	64.3	62.0	61.4	62.0
2328	Men's and boys' work clothing	87.8	88.0	81.8	81.6	84.2
233	Women's and misses' outerwear	370.3	365.8	350.0	354.9	353.5
2331	Women's and misses' blouses and waists	55.9	55.9	54.5	55.4	55.1
2335	Women's and misses' dresses	137.9	132.6	122.4	125.3	123.6
2337	Women's and misses' suits and coats	50.4	51.9	48.5	49.0	47.4
2339	Women's and misses' outerwear, nec	126.1	125.4	124.6	125.2	127.4
234	Women's and children's undergarments	78.6	78.0	75.7	75.3	76.0
2341	Women's and children's underwear	63.5	62.9	61.3	60.9	61.6
2342	Brassieres and allied garments	15.1	15.1	14.4	14.4	14.4
236	Children's outerwear	56.9	55.9	55.8	56.0	55.4
2361	Children's dresses and blouses	24.8	24.4	24.9	24.9	24.1
238	Misc. apparel and accessories	43.6	43.5	41.8	42.2	42.3
239	Misc. fabricated textile products	116.9	110.5	112.0	115.2	115.6
2391	Curtains and draperies	22.5	22.1	21.0	21.3	21.5
2392	House furnishings, nec	32.7	31.7	30.1	30.7	30.7
2396	Automotive and apparel trimmings	15.8	12.6	16.8	18.1	18.1
26	PAPER AND ALLIED PRODUCTS	160.8	160.9	158.0	159.3	160.5
261, 26	Paper and pulp mills	27.2	27.2	27.3	27.3	27.5
262	Paper mills, except building paper	24.1	24.2	24.5	24.5	24.7
263	Paperboard mills	6.0	6.0	5.9	6.0	5.9
264	Misc. converted paper products	78.0	78.0	76.3	77.4	78.0
265	Paperboard containers and boxes	49.6	49.7	48.5	48.6	49.1
27	PRINTING AND PUBLISHING	498.0	497.4	505.3	508.6	510.4
271	Newspapers	156.9	157.0	160.5	160.8	161.1
272	Periodicals	53.1	52.7	54.3	54.5	53.8
273	Books	55.5	55.5	55.7	55.9	56.4
274	Miscellaneous publishing	26.0	25.9	28.0	27.6	28.0
275	Commercial printing	130.9	131.3	133.6	136.5	137.4
2751	Commercial printing, letterpress	55.1	55.6	55.4	56.8	57.4
2752	Commercial printing, lithographic	70.1	70.0	72.1	73.3	73.5
276	Manifold business forms	16.2	16.1	15.6	15.4	15.4
278	Blankbooks and bookbinding	33.6	32.9	32.1	32.3	32.7
279	Printing trade services	10.7	10.8	11.0	11.1	11.2
28	CHEMICALS AND ALLIED PRODUCTS	275.4	275.9	280.3	281.4	280.2
281	Industrial inorganic chemicals	23.7	23.7	24.4	24.4	24.4
2819	Industrial inorganic chemicals, nec	15.8	15.8	16.5	16.5	16.5
282	Plastics materials and synthetics	45.6	45.5	43.2	43.4	43.3
2821	Plastics materials and resins	11.2	11.3	11.4	11.5	11.4
2824	Organic fibers, noncellulosic	27.2	26.9	25.3	25.0	25.0
283	Drugs	80.8	81.3	84.8	85.1	85.2
2834	Pharmaceutical preparations	68.3	68.5	71.4	71.4	71.5
284	Soap, cleaners, and toilet goods	55.4	55.3	57.3	57.7	56.2
2841	Soap and other detergents	8.9	9.4	9.5	9.3	9.1
2844	Toilet preparations	32.9	32.3	33.8	34.5	33.4
285	Paints and allied products	12.8	12.7	12.4	12.4	12.5
286	Industrial organic chemicals	25.7	25.9	26.1	26.0	26.0
2861,9	Gum, wood, and industrial organic chemicals, nec	20.9	21.2	21.6	21.6	21.6
287	Agricultural chemicals	10.8	10.8	10.6	10.8	10.9
289	Miscellaneous chemical products	20.6	20.7	21.5	21.6	21.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry—Continued

[In thousands]

1972 SIC Code	Industry	Mar. 1980	Apr. 1980	Feb. 1981	Mar. 1981	Apr. 1981
29	PETROLEUM AND COAL PRODUCTS	23.1	23.5	28.9	29.1	29.5
291	Petroleum refining	18.0	18.3	23.9	24.2	24.5
30	RUBBER AND MISC. PLASTICS PRODUCTS	265.1	261.5	250.8	253.0	256.5
301	Tires and inner tubes	12.1	12.3	11.7	11.6	11.6
302	Rubber and plastics footwear	13.6	13.6	12.6	12.5	12.6
303,4	Reclaimed rubber, and rubber and plastics hose and belting	6.2	6.1	5.6	5.8	6.0
306	Fabricated rubber products, nec	38.0	37.5	35.4	35.7	36.3
307	Miscellaneous plastics products	195.2	192.0	185.5	187.4	190.0
31	LEATHER AND LEATHER PRODUCTS	143.2	143.3	136.7	137.2	137.6
311	Leather tanning and finishing	2.9	2.7	2.9	2.9	2.9
314	Footwear, except rubber	94.9	96.6	93.3	93.2	93.4
3143	Men's footwear, except athletic	34.0	34.6	35.3	35.5	35.8
3144	Women's footwear, except athletic	29.2	39.9	35.5	35.0	34.7
316	Luggage	9.4	9.1	7.9	8.2	8.3
317	Handbags and personal leather goods	22.0	21.2	19.4	19.7	19.8
-	TRANSPORTATION AND PUBLIC UTILITIES	1,280	1,279	1,312	1,318	1,322
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	69.4	66.2	71.9	72.7	71.8
411	Local and suburban transportation	13.0	12.6	15.2	15.3	15.3
412	Taxicabs	6.8	6.8	7.2	7.3	7.3
413	Intercity highway transportation	4.8	4.9	5.0	5.0	5.0
415	School buses	42.0	39.2	42.0	42.4	41.4
42	TRUCKING AND WAREHOUSING	151.0	150.5	148.3	149.1	149.2
421,3	Trucking and trucking terminals	134.6	134.7	133.2	134.4	134.7
422	Public warehousing	16.4	15.8	15.1	14.7	14.5
44	WATER TRANSPORTATION	20.4	19.9	20.3	20.7	21.4
45	TRANSPORTATION BY AIR	146.5	147.6	149.1	149.8	150.6
451,2	Air transportation	138.3	139.1	140.5	141.3	142.1
46	PIPE LINES, EXCEPT NATURAL GAS	2.5	2.5	3.0	3.0	3.1
47	TRANSPORTATION SERVICES	92.4	91.9	93.9	96.3	97.2
48	COMMUNICATION	623.3	626.2	633.8	634.5	636.9
481	Telephone communication	540.7	543.1	547.6	547.6	548.6
483	Radio and television broadcasting	61.7	62.3	63.4	63.8	64.7
49	ELECTRIC, GAS, AND SANITARY SERVICES	148.6	150.1	161.1	162.1	163.3
491	Electric services	68.6	69.6	75.7	76.2	76.8
492	Gas production and distribution	35.3	35.2	37.2	37.5	37.7
493	Combination utility services	34.6	35.1	37.2	37.4	37.7
495	Sanitary services	5.4	5.4	6.0	6.0	6.1
	WHOLESALE AND RETAIL TRADE	8,668	8,730	8,805	8,817	8,903
50,51	WHOLESALE TRADE	1,353	1,349	1,369	1,373	1,377
50	WHOLESALE TRADE-DURABLE GOODS	758	758	761	764	768
501	Motor vehicles and automotive equipment	91.5	90.9	88.0	88.3	88.6
502	Furniture and home furnishings	43.5	43.8	44.6	45.0	44.9
503	Lumber and construction materials	34.7	34.4	35.4	35.6	36.0
504	Sporting goods, toys, and hobby goods	23.4	23.6	24.6	24.9	25.1
505	Metals and minerals, except petroleum	29.2	29.4	29.6	29.7	29.7
506	Electrical goods	120.3	120.7	122.5	122.3	122.8
507	Hardware, plumbing, and heating equipment	68.9	68.1	65.4	65.4	66.2
508	Machinery, equipment, and supplies	298.7	299.5	303.7	305.5	307.2
509	Miscellaneous durable goods	48.1	47.8	47.0	47.2	47.8
51	WHOLESALE TRADE-NONDURABLE GOODS	595	591	608	609	609
511	Paper and paper products	44.9	45.2	48.0	47.9	48.7
512	Drugs, proprietaries, and sundries	64.6	64.4	65.8	65.5	65.7
513	Apparel, piece goods, and notions	82.0	81.4	81.0	81.8	81.3
514	Groceries and related products	144.0	149.7	154.7	156.2	157.1
516	Chemicals and allied products	32.9	32.4	35.3	34.9	35.3
517	Petroleum and petroleum products	49.6	49.7	51.7	51.8	52.0
518	Beer, wine, and distilled beverages	21.1	20.7	21.8	21.9	22.0
519	Miscellaneous nondurable goods	117.6	113.6	113.6	113.9	114.3

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry—Continued

(In thousands)

1972 SIC Code	Industry	Mar. 1980	Apr. 1980	Feb. 1981	Mar. 1981	Apr. 1981
52-59	RETAIL TRADE	7,315	7,381	7,436	7,444	7,526
52	BUILDING MATERIALS AND GARDEN SUPPLIES	160.3	164.0	158.1	161.8	167.9
521	Lumber and other building materials	63.5	63.4	64.6	64.4	65.8
525	Hardware stores	54.1	54.6	53.5	54.7	54.9
53	GENERAL MERCHANDISE STORES	1,486.4	1,482.3	1,460.3	1,428.2	1,425.2
531	Department stores	1,219.3	1,211.5	1,197.0	1,164.0	1,154.2
533	Variety stores	189.3	192.7	187.3	187.5	193.1
539	Misc. general merchandise stores	77.8	78.1	76.0	76.7	77.9
54	FOOD STORES	990.9	995.0	1,033.9	1,033.6	1,039.1
541	Grocery stores	827.3	829.4	867.0	865.9	867.4
542	Meat markets and freezer provisioners	17.7	18.4	16.4	16.6	17.5
546	Retail bakeries	78.6	79.2	79.5	79.8	80.2
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	300.9	302.5	301.1	298.5	302.8
551.2	New and used car dealers	118.3	116.6	111.8	112.0	113.3
553	Auto and home supply stores	45.6	46.1	49.7	47.2	48.0
554	Gasoline service stations	120.6	123.7	125.1	124.4	125.9
56	APPAREL AND ACCESSORY STORES	647.8	652.1	659.0	661.3	675.7
561	Men's and boys' clothing and furnishings	57.8	57.9	58.1	56.3	58.1
562	Women's ready-to-wear stores	304.3	305.3	306.7	309.9	314.3
565	Family clothing stores	131.0	131.8	135.6	135.7	137.6
568	Shoe stores	80.8	83.6	81.4	81.9	87.2
57	FURNITURE AND HOME FURNISHING STORES	205.3	203.5	206.8	206.1	206.1
571	Furniture and home furnishings stores	135.9	135.5	136.9	137.3	137.5
572	Household appliance stores	22.6	22.4	23.4	23.1	23.0
573	Radio, television, and music stores	46.8	45.6	46.5	45.7	45.6
58	EATING AND DRINKING PLACES	2,518.9	2,588.5	2,573.4	2,623.7	2,670.4
59	MISCELLANEOUS RETAIL	1,004.0	993.3	1,043.6	1,031.0	1,038.5
591	Drug stores and proprietary stores	305.5	301.0	303.1	299.1	300.4
592	Liquor stores	30.3	29.8	31.7	31.0	32.2
594	Miscellaneous shopping goods stores	346.9	341.1	368.8	367.7	365.6
596	Nonstore retailers	156.2	153.7	163.2	162.9	161.3
598	Fuel and ice dealers	23.8	23.4	24.2	24.0	23.5
599	Retail stores, nec	119.8	123.3	132.7	126.7	135.1
-	FINANCE, INSURANCE, AND REAL ESTATE	3,006	3,015	3,126	3,135	3,147
60	BANKING	1,099.3	1,101.5	1,140.0	1,144.6	1,147.5
602	Commercial and stock savings banks	1,013.0	1,014.9	1,049.3	1,053.7	1,056.0
61	CREDIT AGENCIES OTHER THAN BANKS	374.5	372.0	395.2	395.7	396.5
612	Savings and loan associations	179.9	178.4	197.3	197.5	198.1
614	Personal credit institutions	123.5	123.6	127.0	127.5	127.7
62	SECURITY, COMMODITY BROKERS, AND SERVICES	86.5	87.7	99.8	99.6	100.6
621	Security brokers and dealers	69.6	70.4	80.7	81.0	81.9
63	INSURANCE CARRIERS	739.5	740.8	750.5	752.7	753.2
631	Life insurance	285.3	287.1	294.5	295.9	296.7
632	Medical service and health insurance	102.3	102.6	105.1	105.1	105.3
633	Fire, marine, and casualty insurance	300.5	301.0	301.6	302.1	301.7
64	INSURANCE AGENTS, BROKERS, AND SERVICE	276.1	279.7	289.4	290.8	292.8
65	REAL ESTATE	356.2	359.2	372.4	373.4	377.5
651	Real estate operators and lessors	136.5	137.8	145.2	145.7	147.7
653	Real estate agents and managers	171.6	172.8	176.5	176.3	177.1
655	Subdividers and developers	32.6	33.4	36.0	36.7	37.7
66	COMBINED REAL ESTATE, INSURANCE, ETC	13.8	13.7	13.1	13.1	13.0
67	HOLDING AND OTHER INVESTMENT OFFICES	60.0	60.8	65.2	65.2	66.0
-	SERVICES	10,288	10,368	10,724	10,816	10,915
70	HOTELS AND OTHER LODGING PLACES	555.3	585.3	539.6	554.4	593.0
701	Hotels, motels, and tourist courts	538.5	568.0	522.9	537.4	574.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry — Continued

[In thousands]

1972 SIC Code	Industry	Mar. 1980	Apr. 1980	Feb. 1981	Mar. 1981	Apr. 1981
72	PERSONAL SERVICES	628.3	630.7	621.0	620.9	623.9
721	Laundry, cleaning, and garment services	223.8	224.2	223.0	222.6	225.3
723	Beauty shops	251.7	251.5	251.5	252.1	252.9
726	Funeral service and crematories	18.9	18.7	19.0	18.9	18.9
73	BUSINESS SERVICES	1,311.6	1,308.7	1,387.0	1,401.5	1,415.1
731	Advertising	71.5	71.0	73.7	74.2	73.9
732	Credit reporting and collection	55.1	54.4	50.9	50.7	51.1
733	Mailing, reproduction, stenographic	57.4	58.8	61.4	62.9	62.4
734	Services to buildings	183.1	183.6	189.3	191.3	192.7
736	Personnel supply services	334.7	327.5	352.8	357.9	364.9
737	Computer and data processing services	138.7	141.1	158.1	158.6	159.5
75	AUTO REPAIR, SERVICES, AND GARAGES	97.0	97.5	95.6	97.0	97.4
753	Automotive repair shops	41.9	42.7	41.9	43.1	43.7
76	MISCELLANEOUS REPAIR SERVICES	59.9	59.7	59.3	58.5	57.8
78	MOTION PICTURES	80.7	84.4	80.9	82.4	85.8
781	Motion picture production and services	26.6	27.0	24.1	24.4	22.2
783	Motion picture theaters	48.2	51.6	50.9	52.2	57.6
79	AMUSEMENT AND RECREATION SERVICES	261.9	282.2	262.9	278.3	301.9
80	HEALTH SERVICES	4,219.5	4,231.0	4,412.1	4,434.5	4,446.9
801	Offices of physicians	575.9	577.7	594.7	596.8	600.4
802	Offices of dentists	286.3	286.3	296.0	300.7	302.6
805	Nursing and personal care facilities	876.7	880.4	914.9	918.0	919.9
806	Hospitals	2,179.7	2,184.9	2,286.1	2,297.0	2,300.4
81	LEGAL SERVICES	345.7	347.8	369.0	371.0	374.3
82	EDUCATIONAL SERVICES	607.9	608.6	640.9	646.0	639.5
821	Elementary and secondary schools	183.2	183.2	200.4	201.8	202.1
822	Colleges and universities	358.4	358.0	371.4	374.6	367.7
83	SOCIAL SERVICES	833.7	834.9	881.1	887.8	890.4
89	MISCELLANEOUS SERVICES	319.5	321.4	343.3	347.9	347.0
891	Engineering and architectural services	111.0	111.9	120.7	122.0	121.9
893	Accounting, auditing, and bookkeeping	149.5	151.2	162.9	165.6	165.3
	GOVERNMENT	7,980	8,073	8,008	8,029	8,019
	FEDERAL GOVERNMENT	908	1,002	879	876	878
	STATE AND LOCAL GOVERNMENT	7,072	7,071	7,129	7,153	7,141
	State government	1,681.8	1,681.7	1,678.0	1,683.7	1,682.5
	Hospitals	336.0	335.6	334.9	334.5	334.8
	State education	707.0	704.8	699.9	702.7	701.4
	General administration including executive, legislative, and judicial functions	429.8	432.4	429.7	432.9	433.2
	Local government	5,389.7	5,389.6	5,451.1	5,469.6	5,458.0
	Transportation and public utilities	94.0	96.0	99.7	100.8	101.8
	Hospitals	484.2	486.5	504.9	506.0	505.8
	Local education	3,591.6	3,575.3	3,620.9	3,625.4	3,615.8
	General administration including executive, legislative, and judicial functions	994.5	1,006.4	998.6	1,007.2	1,005.6

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, updated seasonal adjustment factors, and rebased indexes. Because of these revisions, data in this table may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

(In thousands)

Industry division and group	1980							1981					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May p	June p
TOTAL	90,087	89,960	90,219	90,461	90,668	90,844	90,949	91,091	91,258	91,347	91,458	91,530	91,516
GOODS-PRODUCING	25,402	25,151	25,322	25,445	25,521	25,629	25,631	25,647	25,657	25,705	25,700	25,690	25,774
MINING	1,024	1,004	1,008	1,023	1,032	1,052	1,069	1,083	1,091	1,098	950	955	1,106
CONSTRUCTION	4,345	4,270	4,324	4,362	4,379	4,389	4,387	4,390	4,385	4,416	4,418	4,322	4,263
MANUFACTURING	20,033	19,877	19,990	20,060	20,110	20,188	20,175	20,174	20,177	20,191	20,332	20,413	20,405
DURABLE GOODS	11,973	11,859	11,907	11,968	12,013	12,090	12,077	12,084	12,074	12,099	12,207	12,252	12,257
Lumber and wood products	659	662	671	680	679	683	687	689	691	692	702	710	699
Furniture and fixtures	460	447	456	462	462	463	464	464	466	467	478	484	488
Stone, clay, and glass products	650	645	651	656	655	658	655	654	654	651	656	658	656
Primary metal industries	1,113	1,070	1,077	1,092	1,108	1,126	1,137	1,137	1,140	1,141	1,145	1,140	1,142
Fabricated metal products	1,575	1,545	1,567	1,575	1,578	1,582	1,581	1,579	1,577	1,581	1,595	1,603	1,604
Machinery, except electrical	2,488	2,462	2,454	2,463	2,481	2,489	2,490	2,487	2,481	2,480	2,491	2,511	2,513
Electric and electronic equipment	2,074	2,064	2,074	2,078	2,087	2,096	2,103	2,110	2,110	2,117	2,134	2,143	2,145
Transportation equipment	1,836	1,841	1,839	1,843	1,848	1,874	1,874	1,840	1,833	1,849	1,878	1,874	1,884
Instruments and related products	705	708	707	709	709	712	712	713	711	712	714	716	713
Miscellaneous manufacturing ind.	413	415	411	410	406	407	409	411	411	419	414	413	413
NONDURABLE GOODS	8,060	8,018	8,083	8,092	8,097	8,098	8,098	8,090	8,103	8,092	8,125	8,161	8,148
Food and kindred products	1,696	1,708	1,720	1,712	1,711	1,705	1,701	1,696	1,705	1,691	1,697	1,703	1,691
Tobacco manufactures	70	70	69	68	69	71	71	71	72	72	72	71	72
Textile mill products	837	828	844	843	845	844	842	841	839	839	842	843	845
Apparel and other textile products	1,261	1,254	1,263	1,261	1,256	1,253	1,250	1,244	1,243	1,243	1,250	1,259	1,261
Paper and allied products	689	682	687	689	691	692	692	691	691	689	691	694	695
Printing and publishing	1,255	1,255	1,256	1,261	1,262	1,265	1,269	1,269	1,272	1,276	1,280	1,283	1,283
Chemicals and allied products	1,107	1,099	1,097	1,101	1,102	1,103	1,105	1,106	1,109	1,108	1,107	1,109	1,109
Petroleum and coal products	205	208	209	208	208	209	209	211	210	210	211	213	211
Rubber and misc. plastic products	709	692	708	717	722	725	729	730	731	734	744	753	757
Leather and leather products	231	222	232	232	231	231	230	231	231	231	231	233	234
SERVICE-PRODUCING	64,685	64,809	64,897	65,016	65,147	65,215	65,318	65,444	65,601	65,642	65,758	65,840	65,742
TRANSPORTATION AND PUBLIC UTILITIES	5,129	5,119	5,126	5,124	5,129	5,114	5,118	5,124	5,135	5,139	5,161	5,141	5,167
WHOLESALE AND RETAIL TRADE	20,266	20,355	20,413	20,450	20,461	20,464	20,470	20,529	20,600	20,635	20,636	20,714	20,681
WHOLESALE TRADE	5,253	5,261	5,274	5,290	5,296	5,296	5,300	5,305	5,313	5,316	5,333	5,348	5,345
RETAIL TRADE	15,013	15,094	15,139	15,160	15,165	15,168	15,170	15,224	15,287	15,319	15,303	15,366	15,336
FINANCE, INSURANCE, AND REAL ESTATE	5,156	5,173	5,188	5,206	5,221	5,235	5,254	5,269	5,283	5,293	5,316	5,322	5,329
SERVICES	17,816	17,940	17,981	18,043	18,087	18,160	18,240	18,300	18,343	18,371	18,475	18,536	18,548
GOVERNMENT	16,318	16,222	16,189	16,193	16,249	16,242	16,236	16,223	16,240	16,204	16,170	16,127	16,017
FEDERAL	2,951	2,893	2,808	2,784	2,795	2,796	2,800	2,799	2,795	2,781	2,767	2,780	2,778
STATE AND LOCAL	13,367	13,329	13,381	13,409	13,454	13,446	13,436	13,424	13,445	13,423	13,403	13,347	13,239

p=preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, updated seasonal adjustment factors, and rebased indexes. Because of these revisions, data in this table may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1980									1981			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
TOTAL	38,195	38,094	38,045	38,141	38,269	38,425	38,473	38,570	38,657	38,780	38,877	38,931	38,987
GOODS-PRODUCING	6,899	6,795	6,704	6,681	6,721	6,736	6,754	6,778	6,795	6,806	6,814	6,823	6,878
MINING	101	102	103	104	105	107	108	111	113	115	117	119	114
CONSTRUCTION	376	376	375	374	379	381	384	388	390	391	392	394	397
MANUFACTURING	6,422	6,317	6,226	6,203	6,237	6,248	6,262	6,279	6,292	6,300	6,305	6,310	6,367
DURABLE GOODS	3,082	3,002	2,948	2,934	2,942	2,956	2,973	2,990	3,000	3,008	3,013	3,020	3,054
Lumber and wood products	105	100	97	98	101	102	102	102	103	104	104	104	106
Furnitures and fixtures	144	139	136	133	135	137	137	138	139	139	141	141	145
Stone, clay, and glass products	130	127	124	122	124	125	125	126	125	126	127	126	127
Primary metal industries	131	124	121	116	118	121	122	124	124	124	124	124	127
Fabricated metal products	346	331	322	320	326	329	330	330	331	330	331	333	337
Machinery, except electrical	500	496	491	485	481	486	492	496	500	501	501	502	503
Electric and electronic equipment	919	897	881	876	877	878	882	888	892	897	898	902	912
Transportation equipment	298	286	284	288	288	287	292	296	291	292	234	295	302
Instruments and related products	305	303	299	302	301	301	302	302	304	303	302	302	303
Miscellaneous manufacturing ind.	204	199	193	194	191	190	189	188	191	192	191	191	192
NONDURABLE GOODS	3,340	3,315	3,278	3,269	3,295	3,292	3,289	3,289	3,292	3,292	3,292	3,290	3,313
Food and kindred products	507	508	499	505	515	509	508	506	505	505	505	500	506
Tobacco manufactures	25	25	25	25	24	25	25	26	25	26	26	26	26
Textile mill products	413	407	395	392	399	398	398	398	398	397	396	395	398
Apparel and other textile products	1,031	1,025	1,021	1,013	1,020	1,016	1,012	1,008	1,006	1,004	1,001	1,001	1,006
Paper and allied products	161	160	157	156	157	158	158	159	159	159	160	160	161
Printing and publishing	497	498	499	498	497	500	500	502	504	504	505	507	510
Chemicals and allied products	277	276	276	275	275	276	277	278	280	281	282	283	282
Petroleum and coal products	24	27	28	29	28	28	28	28	29	29	29	29	30
Rubber and misc. plastics products	262	248	239	236	241	244	246	247	249	250	250	252	257
Leather and leather products	143	141	139	134	139	138	137	137	137	137	138	137	137
SERVICE-PRODUCING	31,296	31,299	31,341	31,460	31,548	31,689	31,719	31,792	31,862	31,974	32,063	32,108	32,109
TRANSPORTATION AND PUBLIC UTILITIES	1,283	1,288	1,286	1,287	1,290	1,295	1,312	1,307	1,311	1,310	1,314	1,318	1,327
WHOLESALE AND RETAIL TRADE	8,843	8,844	8,871	8,891	8,915	8,936	8,935	8,941	8,946	8,998	9,031	9,051	8,990
WHOLESALE TRADE	1,359	1,362	1,359	1,367	1,367	1,371	1,374	1,370	1,378	1,375	1,378	1,377	1,388
RETAIL TRADE	7,484	7,482	7,512	7,524	7,548	7,565	7,561	7,571	7,568	7,623	7,653	7,674	7,602
FINANCE, INSURANCE, AND REAL ESTATE	3,021	3,029	3,028	3,044	3,054	3,065	3,078	3,089	3,103	3,120	3,130	3,138	3,153
SERVICES	10,338	10,382	10,399	10,495	10,526	10,582	10,613	10,671	10,720	10,765	10,803	10,830	10,882
GOVERNMENT	7,811	7,756	7,757	7,743	7,763	7,811	7,781	7,784	7,782	7,781	7,785	7,771	7,757
FEDERAL	1,001	942	939	918	893	879	883	886	887	887	895	878	877
STATE AND LOCAL	6,810	6,814	6,818	6,825	6,870	6,932	6,898	6,898	6,895	6,894	6,900	6,893	6,880

¹ The unadjusted data are shown because the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, updated seasonal adjustment factors, and rebased indexes. Because of these revisions, data in this table may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

B-6. Production or nonsupervisory workers' on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

[In thousands]

Industry division and group	1980							1981					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
TOTAL PRIVATE	59,945	59,945	60,182	60,368	60,464	60,598	60,667	60,807	60,870	60,961	61,114	61,186	61,256
GOODS-PRODUCING	18,134	17,906	18,064	18,167	18,213	18,291	18,278	18,305	18,298	18,346	18,338	18,312	18,383
MINING	763	747	748	759	763	779	791	800	806	813	689	690	813
CONSTRUCTION	3,414	3,345	3,386	3,416	3,426	3,431	3,428	3,452	3,439	3,459	3,462	3,367	3,308
MANUFACTURING	13,957	13,814	13,930	13,992	14,024	14,081	14,059	14,053	14,053	14,074	14,187	14,255	14,262
DURABLE GOODS	8,232	8,131	8,176	8,229	8,259	8,320	8,301	8,306	8,297	8,325	8,412	8,449	8,464
Lumber and wood products	548	552	560	568	567	569	573	575	576	577	586	593	584
Furniture and fixtures	369	359	367	372	373	373	374	374	376	376	386	392	396
Stone, clay, and glass products	500	495	502	506	506	508	505	504	503	501	506	507	506
Primary metal industries	846	810	818	833	847	864	874	876	879	879	884	880	880
Fabricated metal products	1,160	1,135	1,153	1,161	1,165	1,169	1,168	1,166	1,164	1,159	1,178	1,184	1,190
Machinery, except electrical	1,595	1,572	1,567	1,573	1,579	1,581	1,577	1,577	1,573	1,575	1,580	1,595	1,500
Electric and electronic equipment	1,308	1,297	1,304	1,306	1,310	1,316	1,322	1,324	1,326	1,334	1,345	1,354	1,357
Transportation equipment	1,179	1,181	1,178	1,185	1,169	1,215	1,182	1,183	1,176	1,190	1,218	1,214	1,225
Instruments and related products	420	421	422	421	422	422	423	422	419	420	422	424	421
Miscellaneous manufacturing ind.	307	309	305	304	301	303	303	305	305	304	307	306	305
NONDURABLE GOODS	5,725	5,683	5,754	5,763	5,765	5,761	5,758	5,747	5,756	5,749	5,775	5,806	5,798
Food and kindred products	1,159	1,172	1,184	1,177	1,177	1,170	1,166	1,162	1,168	1,158	1,164	1,169	1,146
Tobacco manufactures	55	54	53	54	54	55	55	55	55	56	56	55	56
Textile mill products	725	717	733	732	734	732	731	729	727	727	729	731	732
Apparel and other textile products	1,077	1,072	1,078	1,077	1,073	1,071	1,068	1,062	1,061	1,061	1,065	1,071	1,075
Paper and allied products	518	511	516	518	520	521	521	521	520	519	521	523	525
Printing and publishing	701	698	701	704	703	704	707	705	707	708	709	710	711
Chemicals and allied products	624	616	616	620	619	621	622	623	625	626	627	630	633
Petroleum and coal products	132	133	134	134	134	134	133	134	134	134	134	137	136
Rubber and misc. plastics products	539	524	543	551	556	558	561	562	564	566	575	583	586
Leather and leather products	195	186	196	196	195	195	194	194	195	194	195	197	198
SERVICE-PRODUCING	41,811	42,039	42,118	42,201	42,251	42,307	42,389	42,502	42,572	42,615	42,776	42,874	42,873
TRANSPORTATION AND PUBLIC UTILITIES	4,272	4,268	4,270	4,272	4,275	4,260	4,265	4,264	4,270	4,268	4,291	4,264	4,298
WHOLESALE AND RETAIL TRADE	17,769	17,858	17,901	17,929	17,933	17,932	17,932	17,982	18,013	18,031	18,027	18,112	18,066
WHOLESALE TRADE	4,293	4,304	4,309	4,317	4,320	4,318	4,324	4,324	4,329	4,330	4,342	4,354	4,346
RETAIL TRADE	13,476	13,554	13,592	13,612	13,613	13,614	13,608	13,658	13,684	13,701	13,685	13,758	13,720
FINANCE, INSURANCE, AND REAL ESTATE	3,905	3,920	3,929	3,939	3,950	3,960	3,972	3,986	3,992	3,996	4,017	4,019	4,025
SERVICES	15,865	15,993	16,018	16,061	16,093	16,155	16,220	16,270	16,297	16,320	16,441	16,479	16,494

¹ For coverage of series, see footnote 1, table B-2.

^p preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, updated seasonal adjustment factors, and rebased indexes. Because of these revisions, data in this table may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

B-7. Indexes of diffusion: Percent of industries in which employment¹ increased

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
1978				
January.....	66.3	77.0	80.8	79.9
February.....	66.3	76.5	82.8	82.8
March.....	72.1	80.2	83.7	82.3
April.....	73.3	78.2	77.9	85.2
May.....	65.4	78.2	80.2	83.7
June.....	70.6	73.0	78.2	83.4
July.....	62.5	71.2	74.1	81.7
August.....	66.9	69.5	77.3	80.8
September.....	67.2	72.1	77.0	79.4
October.....	66.3	76.2	79.4	75.0
November.....	72.4	76.7	73.3	77.6
December.....	70.9	77.6	74.7	75.0
1979				
January.....	65.1	72.1	72.1	74.7
February.....	66.0	68.6	71.8	70.6
March.....	64.2	65.7	70.1	69.5
April.....	54.1	65.7	64.8	67.2
May.....	60.5	62.8	59.6	59.6
June.....	62.5	63.7	54.4	58.1
July.....	57.0	55.5	56.7	55.8
August.....	53.2	50.0	51.5	55.2
September.....	49.1	53.5	52.0	50.0
October.....	61.6	52.0	50.6	46.2
November.....	49.4	53.5	51.2	38.1
December.....	49.7	49.4	47.7	35.8
1980				
January.....	52.6	50.6	40.4	32.0
February.....	53.2	46.8	33.4	32.6
March.....	49.4	38.7	30.8	31.7
April.....	34.6	30.8	24.7	32.3
May.....	32.8	27.0	26.2	31.4
June.....	31.4	25.9	28.2	31.4
July.....	36.9	35.5	35.2	31.4
August.....	64.8	54.9	45.1	32.6
September.....	64.0	71.2	61.0	34.9
October.....	61.3	69.8	73.5	43.6
November.....	63.4	64.8	72.7	55.8p
December.....	56.7	64.0	65.4	67.7p
1981				
January.....	59.6	61.0	68.6	
February.....	55.8	61.3	68.9p	
March.....	52.3	64.2	63.4p	
April.....	69.8	69.2p		
May.....	60.2p	66.3p		
June.....	52.6p			
July.....				
August.....				
September.....				
October.....				
November.....				
December.....				

¹ Number of employees, seasonally adjusted, on payrolls of 172 private nonagricultural industries.
p = preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, updated seasonal adjustment factors, and rebased indexes. Because of these revisions, data in this table may differ from data published earlier. See article in this issue for additional information.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8. Employees on nonagricultural payrolls for States and selected areas by industry division

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
1 ALABAMA	1,367.9	1,344.1	1,345.1	17.1	6.8	6.9	72.1	71.1	71.0	366.8	356.4	357.1
2 Birmingham	356.2	342.9	342.3	9.8	2.0	2.0	20.9	19.2	19.6	66.7	61.6	61.6
3 Huntsville	119.1	119.0	120.0	(1)	(1)	(1)	4.1	3.9	4.0	36.0	34.9	35.2
4 Mobile	152.7	151.4	152.1	(1)	(1)	(1)	11.4	10.7	10.2	29.5	29.7	30.7
5 Montgomery	109.3	106.9	106.8	(1)	(1)	(1)	7.9	6.2	6.2	16.5	16.2	16.0
6 Tuscaloosa	50.1	48.0	47.9	2.1	.6	.6	2.3	2.3	2.3	8.7	7.9	7.9
7 ALASKA	172.9	171.0	175.2	6.4	8.0	7.8	10.7	9.5	11.1	14.4	11.7	12.3
8 ARIZONA	1,012.3	1,022.0	1,019.8	24.2	24.7	24.7	74.0	70.7	70.7	151.9	156.0	157.0
9 Phoenix	633.1	641.9	640.4	.4	.4	.4	49.7	48.6	48.7	112.2	115.4	115.7
10 Tucson	184.0	188.4	187.8	7.5	7.5	7.6	13.5	13.3	13.2	20.4	22.4	22.6
11 ARKANSAS	748.0	752.1	755.5	5.2	5.3	5.4	38.4	34.9	35.7	207.8	211.9	213.9
12 Fayetteville—Springdale	64.0	66.1	65.5	(1)	(1)	(1)	2.8	2.6	2.6	18.7	20.2	20.0
13 Fort Smith	67.2	67.0	67.9	1.0	1.1	1.1	2.8	2.6	2.6	21.5	21.7	22.5
14 Little Rock—North Little Rock	181.2	180.0	180.2	(1)	(1)	(1)	9.7	8.8	9.1	30.7	29.3	29.0
15 Pine Bluff	33.1	32.2	32.1	(1)	(1)	(1)	3.3	2.4	2.5	6.2	6.3	6.2
16 CALIFORNIA	9,864.4	9,896.8	9,945.7	43.2	44.1	45.2	438.8	390.9	395.2	1,990.5	1,977.7	1,982.4
17 Anaheim—Santa Ana—Garden Grove	840.4	860.4	863.8	2.3	2.3	2.4	50.1	49.3	50.0	221.8	222.2	223.0
18 Bakersfield	129.4	133.6	133.7	11.2	11.7	11.9	7.4	7.7	7.7	5.2	9.6	9.4
19 Fresno	182.8	186.3	186.5	1.0	1.0	1.1	11.0	10.7	10.7	22.3	21.6	22.0
20 Los Angeles—Long Beach	3,623.8	3,655.8	3,659.9	12.7	13.8	13.9	120.7	108.8	109.9	615.3	617.9	617.9
21 Modesto	86.1	86.8	87.4	.1	.1	.1	5.7	4.7	4.8	17.5	18.0	18.3
22 Oxnard—Simi Valley—Ventura	156.2	157.3	157.5	2.8	2.7	2.8	8.7	8.6	8.6	24.5	24.0	24.2
23 Riverside—San Bernardino—Ontario	436.1	439.9	437.5	2.5	2.4	2.4	26.0	25.6	25.8	63.8	63.1	61.1
24 Sacramento	398.8	405.9	406.4	.5	.5	.5	19.1	18.4	18.6	26.0	26.8	27.2
25 Salinas—Seaside—Monterey	89.0	89.5	89.6	.4	.4	.4	3.1	2.9	2.9	9.9	9.2	9.1
26 San Diego	650.6	659.9	661.0	.6	.6	.6	35.9	37.5	37.5	107.5	106.7	106.8
27 San Francisco—Oakland	1,564.8	1,575.5	1,581.4	3.2	3.5	3.7	75.8	71.6	72.4	203.8	203.9	204.1
28 San Jose	672.5	682.5	683.4	.2	.2	.2	25.9	23.7	23.9	237.6	235.4	236.0
29 Santa Barbara—Santa Maria—Lompoc	122.2	123.5	124.2	1.5	1.5	1.6	5.1	4.9	4.9	16.2	16.4	16.9
30 Santa Rosa	92.9	92.2	92.9	.4	.4	.4	5.8	5.1	5.4	14.7	14.6	14.8
31 Stockton	117.4	118.3	119.1	.1	.1	.1	5.6	5.1	5.0	19.8	19.6	20.4
32 Vallejo—Fairfield—Napa	99.4	102.6	102.9	.5	.6	.6	4.8	4.9	4.8	10.5	10.8	10.9
33 COLORADO	1,248.3	1,262.9	1,251.8	34.1	36.0	36.2	75.0	73.6	60.2	180.0	182.5	183.2
34 Denver—Boulder	797.7	806.0	801.8	18.2	20.0	20.0	45.6	44.7	36.7	125.1	127.0	127.5
35 CONNECTICUT	1,435.9	1,422.6	1,441.4	(2)	(2)	(2)	49.3	44.3	48.2	447.8	438.5	438.0
36 Bridgeport	170.6	170.3	171.7	(2)	(2)	(2)	4.3	3.6	4.4	65.6	66.2	66.4
37 Hartford	401.3	401.2	403.6	(2)	(2)	(2)	13.5	11.5	12.2	101.9	98.3	98.0
38 New Britain	66.2	65.6	66.0	(2)	(2)	(2)	2.3	2.0	2.2	30.8	29.8	29.8
39 New Haven—West Haven	194.4	191.2	193.3	(2)	(2)	(2)	6.9	6.3	7.3	44.4	40.0	40.1
40 Stamford	109.2	109.8	110.6	(2)	(2)	(2)	5.7	5.0	5.3	31.6	31.7	31.2
41 Waterbury	91.0	87.5	88.2	(2)	(2)	(2)	3.0	1.9	2.3	34.2	32.8	32.8
42 DELAWARE	261.9	257.4	258.7	(1)	(1)	(1)	15.9	13.6	13.2	71.1	71.7	72.1
43 Wilmington	233.6	230.1	230.8	(1)	(1)	(1)	16.8	14.5	14.1	65.5	65.7	66.0
44 DISTRICT OF COLUMBIA	614.2	612.9	613.2	(1)	(1)	(1)	13.4	13.4	13.5	15.4	15.4	15.5
45 Washington SMSA	1,574.6	1,592.1	1,598.4	(1)	(1)	(1)	75.6	72.9	73.5	55.8	56.3	56.5
46 FLORIDA	3,559.4	3,750.5	3,736.7	10.7	10.6	10.8	259.5	280.2	281.2	453.7	470.2	470.4
47 Bradenton	43.6	42.4	42.2	-	-	-	4.0	3.1	3.0	7.4	7.4	7.5
48 Daytona Beach	77.4	79.9	79.5	(1)	(1)	(1)	4.5	4.8	4.9	8.1	8.2	8.3
49 Fort Lauderdale—Hollywood	353.4	354.9	349.1	(1)	(1)	(1)	32.3	31.8	31.0	41.8	40.7	40.9
50 Fort Myers—Cape Coral	65.0	66.0	65.4	(1)	(1)	(1)	8.1	8.1	7.9	3.8	3.7	3.7
51 Gainesville	66.7	67.1	67.2	(1)	(1)	(1)	3.8	3.6	3.6	4.6	4.8	4.9
52 Jacksonville	291.8	298.3	298.5	(1)	(1)	(1)	15.7	16.3	16.5	34.1	34.6	34.6
53 Lakeland—Winter Haven	116.7	118.8	117.9	5.8	5.8	5.9	8.2	9.2	9.1	21.1	22.5	22.1
54 Melbourne—Titusville—Cocoa	102.3	101.9	102.6	(1)	(1)	(1)	6.2	6.6	6.6	22.5	22.9	22.9
55 Miami	725.4	737.7	734.8	(1)	(1)	(1)	38.2	37.6	37.2	100.9	103.2	102.9
56 Orlando	287.4	295.5	293.6	(1)	(1)	(1)	18.4	21.0	20.4	36.2	36.2	36.5
57 Panama City	32.9	33.3	33.4	(1)	(1)	(1)	1.9	1.9	1.9	3.3	3.6	3.6
58 Pensacola	97.2	100.6	101.4	(1)	(1)	(1)	6.7	7.5	7.6	12.9	12.6	12.6
59 Sarasota	70.4	73.7	73.0	(1)	(1)	(1)	7.1	7.4	7.4	6.2	6.3	6.2
60 Tallahassee	75.2	75.9	76.2	(1)	(1)	(1)	3.6	3.9	4.0	2.9	2.8	2.8
61 Tampa—St. Petersburg	543.2	558.0	558.2	(1)	(1)	(1)	38.6	40.9	41.3	74.8	77.0	77.1
62 West Palm Beach—Boca Raton	206.4	215.4	210.7	(1)	(1)	(1)	20.2	20.7	20.1	26.4	28.1	27.7

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	
71.8	71.3	71.5	271.9	269.8	270.8	58.5	56.8	58.7	204.0	208.4	208.2	305.7	301.5	300.9	1
29.0	28.9	28.9	82.8	82.8	83.0	22.9	22.8	22.8	66.4	68.6	68.5	57.7	57.0	55.9	2
2.6	2.6	2.6	21.4	21.4	21.5	3.5	3.5	3.5	17.3	18.0	18.2	34.2	34.7	35.0	3
11.0	10.8	11.0	36.9	36.7	36.8	7.0	7.4	7.4	29.3	29.4	29.5	27.6	26.7	26.5	4
4.8	4.7	4.8	23.6	23.8	23.8	6.3	6.2	6.2	20.3	20.5	20.5	29.9	29.3	29.3	5
1.8	1.8	1.8	9.2	9.5	9.4	1.6	1.7	1.7	6.3	6.1	6.1	18.1	18.1	18.1	6
17.2	17.0	17.6	29.2	29.3	30.4	8.2	8.2	8.4	30.8	30.1	30.7	56.0	57.2	56.9	7
50.2	50.9	51.1	235.7	244.1	244.4	57.1	58.6	58.9	204.4	209.4	208.6	210.8	207.6	204.4	8
30.3	31.1	31.2	160.2	162.1	162.5	44.5	45.8	46.0	130.6	134.1	133.7	105.2	104.4	102.2	9
8.7	8.6	8.6	40.1	41.1	41.1	8.1	8.2	8.3	39.4	41.4	40.9	46.3	45.9	45.5	10
42.3	42.9	42.8	160.1	161.7	163.3	31.2	31.5	31.8	115.6	118.9	119.1	146.4	145.0	142.5	11
3.9	3.9	3.9	15.4	15.7	15.7	2.3	2.4	2.4	9.3	9.6	9.4	11.6	11.7	11.5	12
3.7	3.6	3.6	14.4	13.9	14.0	2.5	2.5	2.5	11.9	12.1	12.1	9.4	9.5	9.5	13
13.8	14.0	14.0	41.6	42.2	42.5	12.3	12.6	12.6	33.8	34.4	34.5	39.3	38.7	38.5	14
3.9	4.0	4.0	6.5	6.4	6.5	1.4	1.3	1.3	4.9	5.0	5.0	6.9	6.8	6.6	15
542.4	540.1	545.7	2,247.1	2,272.3	2,294.8	618.0	627.1	630.5	2,160.0	2,233.4	2,241.7	1,824.4	1,811.2	1,810.2	16
27.4	28.8	29.0	199.7	206.4	207.9	56.4	59.1	59.4	172.5	181.2	181.7	110.2	111.1	110.4	17
7.5	7.8	7.9	33.2	33.6	34.1	4.8	5.0	5.0	23.4	24.5	24.5	32.7	33.7	33.2	18
11.0	10.7	10.7	48.1	49.7	50.3	10.9	11.2	11.2	35.9	37.9	37.5	42.6	43.5	43.0	19
198.6	197.8	198.9	811.7	821.9	825.6	232.0	235.2	236.0	832.0	855.2	854.3	500.8	505.1	503.4	20
3.8	3.7	3.7	21.1	21.4	21.6	3.4	3.5	3.5	16.8	17.3	17.3	17.7	18.1	18.1	21
6.7	6.3	6.2	36.6	37.0	37.4	7.5	7.6	7.6	30.7	32.3	32.3	38.7	38.8	38.4	22
25.5	25.9	26.1	106.0	108.5	108.9	18.5	18.6	18.6	90.4	93.4	92.4	103.4	102.4	102.2	23
21.4	21.8	21.9	61.8	62.4	62.4	22.1	22.9	23.0	73.4	75.4	75.3	144.5	144.7	144.0	24
4.9	4.9	5.1	22.4	23.1	23.4	4.4	4.4	4.4	19.4	20.0	20.2	24.5	24.6	24.1	25
28.8	28.7	28.4	146.2	147.8	148.4	38.4	39.4	39.4	148.0	154.1	154.4	145.2	145.1	145.5	26
129.7	130.8	131.7	356.9	361.4	364.1	146.2	148.2	148.5	351.2	358.8	360.0	298.0	297.3	296.9	27
21.5	21.7	21.8	126.2	129.6	130.3	27.1	28.2	28.2	152.2	160.4	160.7	81.8	83.3	82.3	28
5.0	5.1	5.1	29.6	30.0	30.0	5.6	5.7	5.7	34.2	34.6	34.7	25.0	25.3	25.3	29
4.5	4.4	4.5	22.3	22.8	22.9	5.7	5.7	5.7	18.5	18.4	18.4	21.0	20.8	20.8	30
8.2	8.2	7.8	27.1	27.3	28.0	5.0	5.1	5.1	23.8	24.7	24.7	27.8	28.2	28.0	31
4.6	4.7	4.7	21.0	22.3	22.5	3.3	3.3	3.3	19.3	20.0	20.0	35.4	36.0	36.1	32
79.7	82.1	82.3	301.8	305.8	308.1	76.0	78.1	78.5	250.6	259.3	256.9	251.0	245.6	246.4	33
55.9	57.7	57.9	191.0	193.2	194.8	53.9	55.1	55.5	166.6	169.8	170.8	141.2	138.5	138.6	34
61.3	60.8	61.2	300.1	297.5	300.0	103.3	108.1	108.9	287.2	296.9	299.8	186.9	186.5	185.2	35
6.3	6.3	6.3	35.9	35.8	36.0	7.3	7.3	7.3	33.3	33.6	33.8	17.9	17.5	17.5	36
13.7	13.9	13.9	81.6	82.4	82.9	59.3	62.9	62.9	75.8	77.3	77.9	55.5	54.9	54.8	37
3.3	3.2	3.2	11.0	11.2	11.3	1.8	1.8	1.9	10.4	10.9	11.0	6.6	6.7	6.6	38
16.1	16.0	16.2	40.8	41.8	42.1	10.8	11.0	11.0	48.7	50.0	50.7	26.7	26.1	25.9	39
4.1	4.3	4.3	23.4	23.8	24.2	7.5	7.6	7.7	26.4	26.9	27.4	10.5	10.5	10.5	40
3.2	3.1	3.1	15.7	15.7	15.8	3.5	3.5	3.5	19.5	19.4	19.5	11.9	11.1	11.2	41
12.4	12.2	12.3	56.0	54.9	55.5	11.8	12.0	12.0	47.9	47.9	48.3	46.9	45.1	45.3	42
12.0	11.7	11.8	47.3	46.7	47.0	11.1	11.3	11.2	43.0	43.1	43.4	37.9	37.2	37.2	43
26.0	25.7	25.7	63.7	63.7	63.9	35.2	35.8	35.9	179.4	186.3	185.8	281.1	272.6	272.9	44
67.9	67.7	68.2	298.2	304.9	307.6	90.6	93.6	94.4	423.2	443.9	447.1	563.3	552.8	551.1	45
218.0	226.5	225.1	925.6	980.1	973.4	249.4	268.0	268.2	812.2	875.9	876.2	630.3	639.0	631.4	46
1.5	1.5	1.5	11.4	11.9	11.4	2.8	2.9	2.9	8.2	8.0	8.2	8.3	7.6	7.7	47
3.2	3.3	3.2	22.0	22.9	22.4	4.2	4.6	4.6	20.9	21.6	21.6	14.5	14.5	14.5	48
17.0	17.4	17.2	103.0	103.0	100.2	28.5	28.7	28.6	83.5	86.1	84.0	47.3	47.2	47.2	49
3.8	4.2	4.2	18.9	18.7	18.5	5.6	6.2	6.1	14.0	13.0	13.9	10.8	12.1	11.1	50
1.6	1.7	1.7	13.8	14.2	14.1	2.6	2.7	2.8	10.6	11.6	11.7	29.7	28.5	28.5	51
23.5	24.5	24.3	74.4	76.7	76.8	27.3	27.2	27.3	61.8	64.7	64.6	55.0	54.3	54.4	52
5.2	4.9	4.8	29.5	28.8	29.1	6.5	6.7	6.6	22.6	23.5	22.9	17.8	17.4	17.4	53
4.5	4.6	4.5	21.6	21.2	21.1	3.9	3.9	3.9	24.4	23.8	24.7	19.2	18.9	18.9	54
71.4	72.9	72.7	188.8	189.4	188.9	52.2	54.2	54.5	177.0	181.3	181.0	96.9	95.1	97.6	55
15.1	14.6	14.7	77.4	78.4	78.0	19.1	20.5	20.5	79.2	82.3	81.2	42.0	42.5	42.3	56
2.0	1.9	1.9	8.7	8.8	8.7	1.7	1.8	1.8	6.6	6.7	6.8	8.7	8.6	8.7	57
5.3	5.0	4.9	22.0	22.2	22.7	4.3	4.3	4.3	20.5	22.5	22.7	25.1	26.5	26.6	58
3.0	3.0	3.0	20.2	21.2	20.6	5.9	6.4	6.4	17.9	19.2	19.2	10.1	10.2	10.2	59
2.3	2.5	2.5	14.8	14.1	13.9	3.4	3.5	3.5	12.5	13.2	13.4	35.7	35.9	36.1	60
30.2	31.0	31.0	148.7	149.4	149.8	38.8	39.6	39.8	129.1	135.3	134.6	83.0	84.8	84.6	61
8.4	8.6	8.5	51.9	54.3	52.7	17.3	17.4	17.3	49.1	54.1	52.6	31.1	32.2	31.8	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
1 GEORGIA	2,147.2	2,169.9	(*)	7.7	7.6	(*)	102.4	99.9	(*)	515.9	519.8	(*)
2 Albany	43.7	44.5	(*)	(1)	(1)	(*)	2.8	2.8	(*)	11.0	10.7	(*)
3 Atlanta	967.1	972.7	(*)	(1)	(1)	(*)	45.1	43.2	(*)	143.4	145.6	(*)
4 Augusta	122.9	123.7	(*)	(1)	(1)	(*)	5.2	5.4	(*)	36.4	35.6	(*)
5 Columbus	81.3	79.1	(*)	(1)	(1)	(*)	3.8	4.0	(*)	21.1	21.2	(*)
6 Macon	97.1	96.8	(*)	(1)	(1)	(*)	5.1	4.9	(*)	15.6	15.5	(*)
7 Savannah	85.5	86.2	(*)	(1)	(1)	(*)	5.3	6.3	(*)	16.3	17.0	(*)
8 HAWAII	406.1	405.4	405.0	(1)	(1)	(1)	24.5	24.0	24.2	23.4	22.8	23.1
9 Honolulu	334.9	335.4	335.4	(1)	(1)	(1)	19.7	20.3	20.4	16.8	16.6	16.9
10 IDAHO	330.5	327.4	329.0	4.4	4.6	4.7	16.1	16.0	16.8	52.8	52.7	53.0
11 Boise City	81.0	78.7	79.3	(1)	(1)	(1)	5.6	5.9	6.1	8.8	8.1	8.2
12 ILLINOIS	4,920.9	4,797.6	4,825.0	32.5	16.4	16.7	198.1	175.0	185.9	1,231.7	1,185.0	1,185.5
13 Bloomington—Normal	48.6	51.1	48.9	(2)	(2)	(2)	1.9	1.8	1.9	7.0	6.9	7.0
14 Champaign—Urbana—Rantoul	80.1	76.7	76.9	(2)	(2)	(2)	1.8	1.4	1.6	7.9	7.7	7.6
15 Chicago—Gary	3,555.2	(*)	(*)	5.2	(*)	(*)	144.5	(*)	(*)	922.7	(*)	(*)
16 Chicago SMSA ²	3,296.0	3,203.2	3,221.7	5.1	4.9	4.9	128.7	105.2	111.1	627.1	613.5	615.8
17 Davenport—Rock Island—Moline	167.2	162.7	161.6	(2)	(2)	(2)	7.3	7.3	7.6	51.0	49.0	47.0
18 Decatur	54.4	54.9	54.8	(2)	(2)	(2)	2.3	2.1	2.2	19.7	19.2	19.2
19 Kankakee	34.6	33.6	33.9	(2)	(2)	(2)	2.0	1.5	1.7	9.4	9.3	9.4
20 Peoria	153.3	147.4	148.5	(2)	(2)	(2)	7.4	6.7	6.7	51.9	47.5	48.1
21 Rockford	119.9	116.0	116.8	(2)	(2)	(2)	3.5	3.3	3.7	52.0	49.8	49.8
22 Springfield	86.8	85.7	86.3	(2)	(2)	(2)	4.3	3.8	3.7	6.4	6.7	6.7
23 INDIANA	2,152.4	2,122.8	2,133.9	10.4	6.4	6.6	93.4	85.8	87.8	655.2	663.5	665.6
24 Anderson	46.0	46.4	46.9	(1)	(1)	(1)	1.1	1.0	1.1	19.1	20.1	20.5
25 Elkhart	68.0	68.1	68.6	-	-	-	2.1	2.1	2.2	33.9	34.7	34.8
26 Evansville	129.0	125.3	126.2	3.0	1.6	1.6	7.4	6.1	6.9	36.7	36.9	37.1
27 Fort Wayne	177.2	171.3	172.0	(1)	(1)	(1)	8.3	7.2	7.9	56.5	53.8	53.6
28 Gary—Hammond—East Chicago ³	259.2	250.6	252.4	(1)	(1)	(1)	15.8	14.6	14.8	95.6	91.7	92.5
29 Indianapolis	537.6	522.1	536.1	(1)	(1)	(1)	23.7	21.4	22.7	124.0	123.1	122.6
30 Lafayette—West Lafayette	56.4	58.4	56.6	(1)	(1)	(1)	2.2	2.4	2.6	11.7	11.2	11.2
31 Muncie	50.2	49.8	49.9	(1)	(1)	(1)	1.6	1.3	1.4	13.3	13.1	13.0
32 South Bend	111.0	107.1	107.6	(1)	(1)	(1)	4.7	4.5	4.5	31.2	30.4	30.6
33 Terre Haute	66.1	61.7	61.4	1.4	.4	.4	4.0	3.3	3.4	16.3	15.2	15.4
34 IOWA	1,117.2	1,084.9	1,090.9	2.4	2.0	2.2	47.2	40.7	43.3	245.5	235.6	236.1
35 Cedar Rapids	86.4	82.5	83.0	(1)	(1)	(1)	3.5	3.4	3.7	29.3	26.4	26.7
36 Des Moines	179.0	178.2	179.2	(1)	(1)	(1)	6.7	6.3	6.9	23.9	24.5	24.5
37 Dubuque	45.1	42.1	42.5	(1)	(1)	(1)	1.5	1.2	1.3	16.7	14.0	14.1
38 Sioux City	49.5	47.8	47.6	(1)	(1)	(1)	2.5	2.0	1.7	8.8	9.0	8.9
39 Waterloo—Cedar Falls	67.3	65.5	65.1	(1)	(1)	(1)	2.6	1.8	1.9	23.9	22.7	22.7
40 KANSAS	954.9	958.8	963.4	15.2	16.3	16.6	48.9	42.8	43.0	189.2	186.2	186.8
41 Lawrence	28.9	28.9	28.8	(2)	(2)	(2)	1.1	.7	.7	4.9	4.8	4.9
42 Topeka	86.7	85.7	85.7	.2	.2	.2	3.7	3.2	3.2	11.2	9.9	10.0
43 Wichita	205.3	206.9	208.2	2.8	3.2	3.3	10.5	9.2	9.8	64.0	63.4	63.2
44 KENTUCKY	1,227.3	1,177.6	1,179.0	52.1	28.6	28.3	58.6	54.1	54.8	280.2	273.5	274.2
45 Lexington—Fayette	145.0	140.9	142.5	(1)	(1)	(1)	6.9	4.6	5.3	29.6	28.8	29.2
46 Louisville	394.1	387.4	390.7	(1)	(1)	(1)	16.1	15.6	16.9	102.4	99.4	99.7
47 Owensboro	31.6	30.9	30.5	1.0	1.0	1.0	1.9	2.0	1.9	7.0	7.0	6.7
48 LOUISIANA	1,549.9	1,621.0	1,623.7	86.5	92.8	93.0	131.5	150.9	151.8	209.9	214.6	215.3
49 Alexandria	51.5	52.8	52.9	(1)	(1)	(1)	3.9	4.2	4.2	5.6	5.3	5.4
50 Baton Rouge	203.6	207.8	208.7	1.3	1.4	1.4	24.3	23.7	24.2	25.6	26.2	26.2
51 Lafayette	76.4	86.4	87.2	14.7	17.7	17.9	5.4	5.9	6.0	4.1	4.5	4.6
52 Lake Charles	64.3	67.5	67.7	2.0	2.3	2.3	7.5	9.1	9.1	13.5	13.9	13.9
53 Monroe	49.6	50.3	50.9	.5	.5	.5	3.7	3.2	3.4	8.0	7.8	7.9
54 New Orleans	500.2	499.6	499.6	17.4	18.4	18.6	30.3	31.0	31.2	53.2	54.3	54.5
55 Shreveport	146.1	152.0	152.5	5.5	5.6	5.7	8.9	10.7	10.2	26.6	27.0	26.8
56 MAINE ⁴	420.2	413.0	419.8	(1)	(1)	(1)	19.4	17.5	20.0	112.8	111.8	113.3
57 Lewiston—Auburn	35.8	35.2	35.1	(1)	(1)	(1)	1.3	1.1	1.2	12.5	11.8	11.7
58 Portland	92.5	93.2	93.5	(1)	(1)	(1)	3.8	3.6	4.0	18.6	18.3	18.5
59 MARYLAND	1,711.5	1,700.8	1,705.5	(1)	(1)	(1)	103.0	94.0	96.4	240.6	235.3	236.0
60 Baltimore	965.3	958.3	957.7	(1)	(1)	(1)	50.7	47.6	48.8	163.7	159.5	160.0

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8. Employees on nonagricultural payrolls for States and selected areas by industry division

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	
137.1	136.7	(*)	491.6	486.6	(*)	111.0	113.5	(*)	344.9	355.8	(*)	436.6	447.0	(*)	1
2.1	2.1	(*)	9.5	10.0	(*)	1.9	1.9	(*)	6.1	6.5	(*)	10.4	10.4	(*)	2
63.5	66.8	(*)	263.6	261.7	(*)	67.1	66.6	(*)	199.5	203.4	(*)	164.9	163.5	(*)	3
4.2	4.4	(*)	22.5	23.0	(*)	4.5	4.5	(*)	17.9	18.6	(*)	32.2	32.2	(*)	4
3.5	3.4	(*)	16.6	15.0	(*)	5.4	5.6	(*)	11.0	11.0	(*)	19.9	15.0	(*)	5
4.8	4.5	(*)	19.5	19.2	(*)	5.6	6.0	(*)	16.8	16.7	(*)	29.6	30.0	(*)	6
9.0	8.2	(*)	19.5	19.5	(*)	4.0	4.2	(*)	15.4	15.0	(*)	15.9	16.1	(*)	7
30.7	31.0	30.8	104.6	102.9	103.1	33.4	34.3	34.4	98.9	99.8	99.1	90.6	90.6	90.3	8
25.5	25.7	25.6	87.0	85.2	85.4	29.2	30.0	30.1	79.4	80.5	80.2	77.3	77.1	76.8	9
20.6	20.2	20.2	81.1	80.2	80.0	23.6	23.3	23.6	60.5	60.3	59.6	71.4	70.1	71.1	10
5.2	5.3	5.3	21.4	20.0	19.9	8.1	7.8	7.9	15.1	14.8	15.0	16.8	16.8	16.9	11
285.9	282.4	285.5	1,144.2	1,115.7	1,120.9	313.6	310.2	312.3	945.4	955.1	961.4	769.5	757.8	756.8	12
3.1	3.1	3.1	12.2	12.1	12.2	7.7	7.6	7.6	8.5	8.3	8.4	8.2	11.3	8.7	13
2.7	2.5	2.6	15.8	19.3	15.3	2.5	2.5	2.5	12.0	11.4	11.6	33.4	31.9	31.7	14
213.2	(*)	(*)	823.0	(*)	(*)	229.8	(*)	(*)	652.5	(*)	(*)	524.4	(*)	(*)	15
197.8	196.3	197.6	770.5	737.1	743.1	220.3	218.0	219.5	655.4	645.9	648.7	491.1	482.2	481.0	16
7.0	6.8	6.9	41.5	40.6	41.0	7.1	7.1	7.1	26.1	24.9	24.7	27.2	27.0	27.3	17
5.2	5.2	5.2	10.8	11.5	11.4	2.8	2.7	2.7	8.5	8.7	8.6	5.0	5.4	5.4	18
1.5	1.4	1.4	7.3	6.8	6.8	1.2	1.1	1.1	6.2	6.4	6.4	7.0	7.1	7.0	19
7.8	7.9	8.1	35.8	34.8	34.9	7.1	7.1	7.1	25.8	26.0	26.1	17.5	17.4	17.5	20
4.8	4.4	4.4	25.1	24.4	24.5	4.2	4.2	4.2	17.6	17.3	17.5	12.7	12.6	12.7	21
5.0	4.7	4.7	19.1	18.5	18.7	6.6	6.6	6.8	17.1	17.4	17.6	28.2	27.9	28.0	22
108.8	104.2	105.2	481.2	466.6	472.2	101.8	100.6	101.2	340.8	339.3	342.7	360.8	356.4	352.6	23
1.4	1.3	1.3	5.5	9.3	9.4	1.6	1.6	1.6	7.2	7.3	7.3	6.1	5.8	5.7	24
2.2	2.1	2.2	13.4	13.0	13.1	2.1	2.1	2.1	8.9	8.9	9.0	5.4	5.2	5.2	25
7.2	7.0	7.0	30.9	30.6	30.8	4.6	4.6	4.6	25.6	25.5	25.4	13.6	13.0	12.8	26
11.4	10.9	10.9	42.4	41.3	41.8	10.6	10.6	10.6	25.1	25.2	29.0	18.9	18.3	18.2	27
15.4	14.6	14.7	52.5	51.0	51.5	9.5	9.2	9.2	37.1	37.4	37.6	33.3	32.1	32.1	28
31.5	31.1	31.3	132.3	131.5	132.7	38.3	38.4	38.7	95.7	96.9	98.1	92.1	89.7	90.0	29
1.5	1.5	1.5	11.0	11.0	11.0	2.6	2.6	2.6	9.2	9.4	9.4	18.2	20.3	18.3	30
2.0	2.0	2.0	12.2	12.2	12.4	1.6	1.5	1.5	8.0	8.1	8.1	11.5	11.6	11.5	31
4.7	4.6	4.6	27.6	25.7	25.7	5.4	5.3	5.3	24.4	23.8	23.9	13.0	12.8	12.8	32
3.7	3.4	3.4	16.5	15.4	15.3	2.2	2.2	2.2	9.6	9.4	9.4	12.4	12.4	11.9	33
55.5	53.4	53.8	280.9	277.1	278.9	57.7	57.7	58.1	211.2	211.0	212.1	216.9	207.4	206.3	34
3.8	3.8	3.8	19.4	18.4	18.4	4.4	4.3	4.3	15.7	15.9	15.8	10.4	10.2	10.3	35
11.2	11.4	11.3	47.1	46.7	46.5	20.6	20.9	20.9	39.7	39.4	39.5	30.0	29.1	29.2	36
1.7	1.6	1.6	6.2	9.1	9.2	1.3	1.3	1.3	10.5	10.7	10.9	4.2	4.2	4.2	37
3.9	3.7	3.7	12.9	12.3	12.4	2.9	2.9	2.9	12.0	11.8	12.0	6.5	6.2	6.1	38
2.5	2.5	2.5	13.9	14.2	14.5	2.1	2.0	2.1	10.8	10.8	10.8	11.5	11.4	11.3	39
64.0	64.6	65.1	225.4	229.4	231.3	47.3	47.5	47.8	171.1	177.2	178.3	193.8	194.8	194.5	40
1.4	1.4	1.3	5.5	5.6	5.6	.8	.9	.8	4.0	4.3	4.4	11.2	11.2	11.1	41
7.4	7.6	7.6	18.6	18.9	19.0	6.2	6.4	6.4	17.1	17.4	17.5	22.3	22.1	21.8	42
10.8	10.8	10.8	44.7	45.6	46.4	9.1	9.2	9.2	38.4	39.8	39.9	25.0	25.6	25.5	43
69.5	66.9	67.9	260.4	254.7	254.1	52.1	52.4	52.5	210.8	211.8	212.4	242.6	235.6	234.7	44
7.4	7.5	7.6	31.6	32.1	32.6	7.2	7.5	7.4	27.4	26.9	27.1	34.9	33.5	33.3	45
24.2	22.9	22.5	89.8	87.1	88.2	23.1	23.1	23.2	78.0	75.1	80.4	60.2	60.1	59.4	46
2.3	2.4	2.4	7.1	6.8	6.9	1.2	1.3	1.2	6.0	5.6	5.6	5.1	4.8	4.8	47
124.0	127.1	127.4	352.5	361.2	362.6	74.5	75.6	75.7	267.1	279.6	280.3	303.9	319.2	317.6	48
2.5	2.5	2.5	11.0	11.6	11.6	2.7	3.0	2.9	10.4	11.0	11.1	15.4	15.2	15.2	49
10.9	11.3	11.4	43.7	45.6	46.0	10.9	11.2	11.3	33.3	34.8	35.0	53.6	53.6	53.2	50
5.7	6.4	6.4	20.1	21.8	22.0	2.7	2.9	2.9	15.1	15.8	16.0	8.6	11.4	11.4	51
3.8	3.9	3.9	14.4	14.7	14.8	2.8	2.8	2.8	9.6	9.7	9.8	10.7	11.1	11.1	52
2.6	2.8	2.9	12.8	13.2	13.3	3.7	4.0	4.0	7.8	8.2	8.2	10.5	10.6	10.7	53
51.9	52.0	52.1	126.5	124.1	124.1	30.0	29.5	30.4	109.4	110.9	110.5	81.5	78.4	78.2	54
10.1	11.0	11.0	35.3	36.6	36.8	7.1	7.2	7.2	27.7	28.8	29.9	24.9	25.1	24.9	55
18.7	18.6	19.0	89.2	86.4	88.8	16.4	16.5	16.8	77.9	78.1	79.9	85.8	84.1	82.0	56
1.2	1.2	1.2	8.2	8.4	8.5	1.5	1.7	1.6	7.7	7.7	7.7	3.4	3.3	3.2	57
5.5	5.3	5.4	24.8	25.3	25.8	7.1	7.6	7.7	19.4	19.9	19.9	13.3	13.2	12.2	58
87.8	85.4	85.1	407.3	413.1	417.4	91.9	94.6	95.4	362.2	372.3	374.6	418.7	406.1	400.6	59
59.8	57.9	57.6	214.5	213.7	214.2	57.3	59.1	59.5	156.9	210.3	210.3	222.4	210.2	207.3	60

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT

B-8 Employees on nonagricultural payrolls for States and selected areas by industry division—Continued

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
1 MASSACHUSETTS	2,664.8	2,682.1	2,691.6	(1)	(1)	(1)	73.8	69.3	70.8	678.7	671.7	670.9
2 Boston	1,482.1	1,495.6	1,502.9	(1)	(1)	(1)	40.7	39.4	42.1	296.7	292.4	293.6
3 Brockton	57.8	58.1	58.7	(1)	(1)	(1)	1.7	1.3	1.4	12.4	12.6	12.8
4 Fall River	54.8	52.9	54.2	(1)	(1)	(1)	1.5	1.2	1.3	20.5	19.8	20.1
5 Lawrence—Haverhill	114.2	114.5	115.4	(1)	(1)	(1)	3.3	3.1	3.4	44.4	44.8	44.6
6 Lowell	77.2	77.1	78.1	(1)	(1)	(1)	2.7	2.5	2.7	28.1	28.4	28.7
7 New Bedford	65.4	64.2	64.6	(1)	(1)	(1)	1.6	1.5	1.6	26.0	25.5	25.5
8 Springfield—Chicopee—Holyoke	235.5	233.2	233.6	(1)	(1)	(1)	6.8	6.2	6.4	67.8	64.3	64.0
9 Worcester	167.7	166.8	167.0	(1)	(1)	(1)	6.0	5.8	6.2	49.8	48.2	48.2
10 MICHIGAN	3,416.5	3,461.5	3,490.4	13.3	12.7	12.8	118.4	105.8	113.0	549.3	1,026.1	1,029.4
11 Ann Arbor	137.6	142.4	140.8	(1)	(1)	(1)	2.7	2.8	2.6	41.3	44.4	44.4
12 Battle Creek	63.9	63.3	64.1	(1)	(1)	(1)	1.7	1.7	1.7	21.9	21.3	22.1
13 Bay City	34.0	34.4	34.2	(1)	(1)	(1)	.9	.8	.8	9.0	9.3	8.9
14 Detroit	1,667.3	1,674.2	1,665.4	1.3	1.3	1.4	52.4	47.9	50.1	466.9	486.5	487.3
15 Flint	181.3	157.9	158.2	(1)	(1)	(1)	5.3	7.1	7.6	64.4	77.5	76.5
16 Grand Rapids	268.1	271.7	275.5	(1)	(1)	(1)	11.6	10.6	11.6	89.0	92.9	94.0
17 Jackson	51.4	51.3	50.8	(1)	(1)	(1)	1.5	1.0	1.2	13.9	14.7	14.1
18 Kalamazoo—Portage	108.9	108.3	107.1	(1)	(1)	(1)	5.1	4.2	4.3	32.8	32.7	33.0
19 Lansing—East Lansing	186.9	195.2	197.2	(1)	(1)	(1)	5.9	5.2	5.6	30.1	42.5	42.5
20 Muskegon—Norton Shores—Muskegon Hts.	60.1	60.0	60.8	(1)	(1)	(1)	2.2	1.9	2.0	20.3	20.3	20.4
21 Saginaw	81.2	86.3	86.1	(1)	(1)	(1)	2.1	2.0	2.0	26.7	31.7	31.4
22 MINNESOTA	1,786.2	1,751.8	1,768.7	15.7	15.1	15.7	77.1	63.6	62.7	371.3	363.0	366.3
23 Duluth—Superior	61.3	57.7	58.5	(1)	(1)	(1)	2.3	1.7	1.7	7.5	7.7	7.7
24 Minneapolis—St. Paul	1,097.8	1,104.2	1,106.4	(1)	(1)	(1)	44.9	37.9	32.7	247.9	245.1	245.9
25 Rochester	50.3	49.7	50.3	(2)	(2)	(2)	2.1	1.3	1.7	10.1	10.2	10.3
26 St. Cloud	56.6	54.6	55.4	(1)	(1)	(1)	2.9	2.4	2.9	12.7	12.2	12.1
27 MISSISSIPPI	834.4	830.8	825.0	10.6	11.3	11.2	44.8	41.0	41.2	215.9	219.1	220.8
28 Jackson	147.5	146.3	145.9	1.3	1.7	1.6	7.9	6.9	6.8	18.8	18.6	18.5
29 MISSOURI	1,985.6	1,966.1	1,981.5	7.9	6.0	5.9	80.0	73.6	77.3	437.5	428.6	428.4
30 Kansas City	627.3	622.3	624.4	.5	.5	.5	25.9	23.7	23.9	117.5	119.5	119.6
31 St. Joseph	37.7	37.2	36.9	(2)	(2)	(2)	2.4	2.0	1.9	9.2	9.1	9.1
32 St. Louis	991.8	977.7	984.7	2.7	1.7	1.6	36.9	43.5	42.6	241.2	233.2	232.0
33 Springfield	86.1	85.5	85.2	(2)	(2)	(2)	3.9	3.3	3.4	19.1	18.4	18.7
34 MONTANA	283.0	281.5	284.2	8.5	8.7	8.7	14.9	13.8	14.3	22.4	22.8	23.0
35 Billings	47.4	47.5	47.7	(1)	(1)	(1)	2.4	2.5	2.6	4.1	4.0	4.1
36 Great Falls	29.8	29.5	29.5	(1)	(1)	(1)	1.8	1.7	1.7	1.7	1.3	1.3
37 NEBRASKA	638.5	628.8	636.5	1.7	1.6	1.6	29.7	27.3	28.1	95.2	95.6	96.1
38 Lincoln	101.0	100.4	101.2	(2)	(2)	(2)	4.0	3.8	3.9	13.5	13.3	13.4
39 Omaha	267.4	262.6	266.3	(2)	(2)	(2)	10.9	10.2	10.4	35.3	34.8	35.1
40 NEVADA	399.3	405.4	415.0	5.8	6.0	8.1	25.4	25.3	25.8	19.3	20.0	20.1
41 Las Vegas	221.2	225.3	227.2	.5	.6	.6	13.5	12.9	13.1	6.9	7.2	7.2
42 Reno	114.1	115.4	116.6	.9	1.1	1.2	7.2	7.3	7.4	8.1	8.3	8.4
43 NEW HAMPSHIRE	384.1	381.6	385.2	.4	.4	.4	18.5	17.6	18.3	117.7	115.0	115.2
44 Manchester	73.8	73.6	73.8	(2)	(2)	(2)	3.2	3.1	3.2	17.4	16.7	16.7
45 Nashua	64.0	64.8	65.0	(2)	(2)	(2)	2.7	2.6	2.7	30.3	30.4	30.5
46 NEW JERSEY	3,059.4	3,070.8	3,082.1	2.5	2.3	2.3	110.0	114.3	104.5	784.5	774.8	777.2
47 Atlantic City	87.2	98.0	99.5	—	—	—	5.9	4.8	4.6	8.8	8.4	8.4
48 Camden	332.6	328.6	329.1	.1	.1	.1	13.7	13.5	13.3	70.7	69.9	70.0
49 Hackensack	400.0	396.4	394.1	(1)	(1)	(1)	14.1	14.8	12.9	112.9	109.1	108.7
50 Jersey City	231.8	225.3	224.5	—	—	—	4.8	4.8	4.7	69.2	66.9	66.5
51 Long Branch—Asbury Park	161.1	164.5	167.2	(1)	(1)	(1)	6.7	7.3	7.2	24.7	25.4	25.6
52 New Bruns. Perth Amboy—Sayreville	287.2	285.4	287.6	(1)	(1)	(1)	10.1	10.9	9.4	88.4	90.8	90.1
53 Newark	943.4	941.6	935.2	.8	.9	.9	33.0	32.0	28.4	245.0	243.3	242.2
54 Paterson—Clifton—Passaic	188.7	188.1	187.6	(1)	(1)	(1)	6.6	7.0	6.4	67.6	65.4	65.7
55 Trenton	163.2	163.4	163.7	(1)	(1)	(1)	3.3	3.0	2.7	34.8	34.9	35.0
56 Vineland—Millville—Bridgeton	55.9	53.7	54.2	(1)	(1)	(1)	1.9	1.9	1.9	18.1	17.4	18.0
57 NEW MEXICO	467.1	465.6	469.3	29.9	30.8	31.0	30.6	28.7	29.5	34.4	32.6	32.5
58 Albuquerque	187.2	186.8	187.6	(1)	(1)	(1)	12.4	11.5	11.9	18.1	17.4	17.3
59 Las Cruces	25.8	30.1	30.2	—	—	—	1.6	1.8	1.9	2.6	2.4	2.4
60 NEW YORK	7,241.6	7,210.0	7,260.0	6.3	6.3	6.7	213.3	190.8	206.7	1,447.8	1,435.3	1,438.8
61 Albany—Schenectady—Troy	341.4	335.2	340.7	(1)	(1)	(1)	11.3	9.9	10.5	58.0	57.2	57.2
62 Binghamton	118.7	118.0	118.1	(1)	(1)	(1)	3.9	3.5	3.7	42.2	42.6	42.9

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	
122.8	124.5	125.0	577.5	576.2	583.4	158.4	161.6	163.5	641.7	675.7	676.0	411.9	403.1	402.0	1
73.9	74.6	75.1	322.3	319.8	321.9	108.6	112.1	112.4	427.7	449.9	451.0	213.2	207.4	206.8	2
3.8	3.6	3.7	15.4	15.7	15.7	2.1	1.9	2.0	10.4	10.9	11.1	12.0	12.1	12.0	3
2.0	1.8	1.9	11.2	11.2	11.4	2.7	2.8	2.8	9.3	9.3	9.3	7.6	7.8	7.4	4
4.6	4.7	4.7	22.2	21.8	22.0	4.1	4.1	4.3	18.1	18.4	18.5	17.5	17.6	17.9	5
3.4	3.3	3.4	15.9	15.9	16.4	2.1	2.2	2.2	12.7	12.6	12.6	12.3	12.2	12.1	6
2.5	2.6	2.7	12.6	11.9	12.2	2.0	2.0	2.0	9.9	9.9	10.0	10.8	10.8	10.6	7
9.3	9.4	9.4	48.4	47.5	47.9	13.3	13.4	13.6	46.2	46.9	47.7	43.7	45.5	44.8	8
7.3	7.3	7.2	35.5	35.9	36.0	9.0	9.3	9.4	33.5	33.7	33.4	26.6	26.6	26.6	9
150.3	146.2	147.9	737.9	729.1	739.1	156.3	156.2	156.4	641.8	657.9	663.2	649.2	625.3	628.6	10
3.0	3.2	3.2	19.0	18.4	18.2	4.2	4.2	4.2	23.3	22.9	23.5	44.1	46.6	44.7	11
2.3	2.3	2.3	10.7	10.6	10.6	3.7	3.8	3.8	11.1	11.3	11.3	12.5	12.3	12.3	12
1.8	1.7	1.7	8.4	8.2	8.3	1.2	1.3	1.3	6.8	7.3	7.5	5.9	5.7	5.7	13
81.3	79.4	78.1	366.0	367.1	370.8	89.8	90.2	90.1	348.4	355.0	356.6	261.1	246.7	250.7	14
5.9	6.2	6.1	29.5	41.2	41.7	6.6	6.5	6.6	29.3	30.2	30.5	29.2	29.2	29.2	15
11.2	11.4	11.4	61.7	62.4	63.8	10.8	10.7	10.7	49.5	49.8	49.9	34.0	33.9	34.1	16
5.2	5.1	5.2	10.1	10.2	10.2	1.8	1.8	1.8	9.2	9.1	9.1	9.7	9.1	9.2	17
3.9	3.6	3.7	21.5	21.2	21.5	3.8	3.8	3.9	21.6	22.0	21.9	20.1	20.8	18.8	18
5.6	5.6	5.6	35.7	35.2	35.8	9.5	9.4	9.5	29.3	29.7	29.5	70.8	67.6	68.3	19
3.1	3.1	3.1	11.9	11.9	12.2	1.8	1.8	1.8	9.3	9.7	9.9	11.3	11.3	11.4	20
4.9	4.8	4.8	17.9	17.6	17.7	4.1	4.0	4.0	13.6	14.3	14.3	11.9	11.9	11.9	21
100.5	98.2	99.2	445.1	430.8	438.1	94.1	96.0	96.3	370.1	375.8	381.3	312.3	309.4	309.2	22
6.8	6.0	6.9	16.5	15.4	15.3	2.2	2.2	2.2	13.1	12.8	12.9	12.9	12.0	11.9	23
64.5	63.9	64.1	269.4	269.3	271.4	69.7	71.5	71.6	239.2	251.1	255.2	162.2	165.3	165.4	24
1.9	1.9	1.9	9.9	10.0	10.1	1.4	1.4	1.4	18.7	19.1	19.2	6.2	5.7	5.7	25
3.6	3.4	3.4	13.6	13.2	13.4	1.9	1.9	1.9	19.0	19.0	19.0	12.0	11.6	11.7	26
40.8	40.8	40.6	164.0	165.9	166.3	32.7	32.0	33.0	123.0	123.5	123.3	198.6	196.2	192.6	27
9.9	9.8	9.7	34.7	34.3	34.4	11.2	11.2	11.2	28.5	29.1	29.1	35.3	34.7	34.5	28
138.0	138.0	138.8	466.1	464.0	469.1	108.1	110.1	110.7	397.4	406.1	410.2	350.6	341.7	341.1	29
52.9	51.4	51.4	159.1	155.8	156.8	44.0	42.9	44.2	131.9	133.8	135.0	95.5	92.7	93.0	30
2.2	2.1	2.1	8.9	8.9	8.7	1.9	1.9	1.9	6.9	6.9	6.9	6.2	6.3	6.3	31
69.5	70.3	70.5	228.5	222.2	224.6	56.8	56.0	56.2	214.3	215.5	219.1	141.9	138.3	138.1	32
6.5	6.5	6.4	22.9	22.9	22.9	3.4	3.4	3.4	17.9	18.8	18.2	12.4	12.2	12.2	33
23.1	23.5	23.7	73.1	71.7	72.4	12.8	12.7	12.8	55.9	57.2	57.8	72.3	71.2	71.6	34
4.8	4.9	4.9	16.0	15.7	15.7	2.3	2.2	2.3	10.1	10.2	10.3	7.7	8.0	7.7	35
1.9	1.8	1.9	9.5	9.5	9.5	2.1	2.0	2.0	7.1	7.1	7.0	5.8	6.1	6.1	36
47.8	46.9	47.6	166.5	163.2	165.6	42.4	43.1	43.2	119.5	120.0	121.8	135.7	131.1	132.5	37
7.4	7.3	7.3	22.1	21.7	21.9	6.9	7.1	7.0	17.4	18.0	17.9	29.7	29.2	29.8	38
24.7	23.8	24.1	68.8	67.2	68.2	25.2	25.2	25.5	58.9	59.5	60.9	43.6	41.8	42.1	39
23.8	25.3	25.3	78.6	84.0	84.8	17.4	18.4	18.5	170.9	170.0	173.7	58.1	58.4	58.7	40
13.0	13.7	13.7	44.7	48.7	49.1	9.8	10.7	10.7	106.5	104.4	105.6	26.3	27.1	27.2	41
8.1	8.5	8.5	24.1	25.5	25.8	6.0	6.2	6.2	43.2	41.9	42.3	16.5	16.6	16.8	42
13.8	13.7	13.7	84.3	84.5	85.8	19.4	19.9	19.9	70.7	72.6	73.9	59.3	57.9	58.0	43
4.7	4.6	4.5	18.7	18.9	19.1	6.1	6.2	6.2	15.0	15.6	15.6	8.7	8.5	8.5	44
1.9	2.0	1.9	12.2	12.5	12.6	1.9	1.9	1.9	9.2	9.5	9.5	5.8	5.9	5.9	45
194.3	188.2	189.1	677.1	672.8	683.0	157.2	156.5	157.1	603.9	638.9	647.2	529.9	523.0	521.7	46
4.0	3.9	3.9	19.4	18.5	19.6	4.8	5.0	5.1	28.8	42.2	42.8	15.5	15.2	15.1	47
15.9	14.5	14.7	85.5	86.3	86.7	16.7	16.3	16.2	66.5	67.9	68.2	63.6	60.1	59.9	48
20.7	20.3	20.3	116.1	111.4	111.0	16.6	17.5	17.5	75.3	77.6	78.1	44.2	45.7	45.6	49
26.9	24.2	24.5	43.9	42.9	43.4	8.8	8.7	8.6	31.5	32.5	32.3	46.7	45.3	44.5	50
6.1	6.1	6.1	40.3	40.7	41.9	8.1	8.0	8.1	40.8	42.7	44.1	34.4	34.3	34.2	51
22.9	23.8	24.1	65.3	65.3	65.6	10.0	10.1	10.2	40.3	42.0	42.1	50.2	46.5	46.1	52
73.9	73.9	72.4	178.6	176.3	175.8	64.4	63.9	63.7	194.2	200.0	200.1	149.6	151.3	150.7	53
6.6	6.8	6.7	39.7	39.6	39.3	9.2	9.1	9.2	33.3	33.4	33.6	25.6	26.8	26.7	54
5.6	5.3	5.4	25.4	25.8	25.9	7.5	7.7	7.8	42.3	42.4	42.6	44.3	44.3	44.3	55
3.0	2.8	2.8	9.0	8.7	8.6	2.4	2.4	2.4	8.4	8.4	8.5	13.1	12.1	12.0	56
28.3	29.2	29.4	103.0	102.2	103.7	20.9	21.1	21.3	91.7	92.8	93.7	128.3	128.2	128.2	57
11.5	11.9	11.9	46.6	45.9	46.4	10.8	11.0	11.1	43.3	44.7	45.4	44.5	44.4	43.6	58
1.2	1.2	1.2	5.4	5.5	5.4	1.2	1.2	1.2	3.9	4.2	4.0	13.9	13.8	14.1	59
432.6	430.4	432.5	1,466.1	1,451.8	1,467.4	622.9	631.4	634.1	1,705.4	1,743.1	1,753.3	1,347.2	1,320.7	1,315.4	60
16.0	15.5	15.7	67.6	68.4	68.0	15.7	15.7	15.8	71.5	72.3	72.4	100.5	101.1	101.1	61
4.6	4.4	4.5	21.6	21.7	21.8	4.0	4.0	4.0	18.2	18.5	18.6	24.2	23.3	22.7	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
NEW YORK—Continued												
1 Buffalo	504.5	502.8	506.6	(1)	(1)	(1)	17.1	14.6	16.2	132.5	135.4	135.6
2 Elmira	36.9	37.2	37.2	(1)	(1)	(1)	1.2	1.0	1.1	11.2	10.9	10.9
3 Monroe County	337.2	340.9	341.8	(1)	(1)	(1)	9.7	8.8	9.3	132.5	136.7	136.7
4 Nassau—Suffolk	922.0	919.5	925.6	(1)	(1)	(1)	37.4	36.0	37.0	167.1	166.4	166.3
5 New York—NortheasternNew Jersey	(*)	6,729.1	(*)	(*)	3.0	(*)	198.2	(*)	(*)	1,326.1	(*)	(*)
6 New York and Nassau—Suffolk	4,680.0	4,686.4	4,705.9	1.8	1.8	1.8	131.8	128.3	131.8	760.2	749.2	749.4
7 New York SMSA	3,758.0	3,767.0	3,780.3	1.6	1.5	1.6	94.4	92.3	94.8	593.1	582.8	583.1
8 New York City	3,312.3	3,319.3	3,328.3	1.2	1.2	1.2	75.8	74.5	75.7	501.6	491.1	491.1
9 Poughkeepsie	98.5	97.8	98.0	(1)	(1)	(1)	2.8	2.5	2.6	31.5	31.9	31.8
10 Rochester	415.1	416.4	418.1	(1)	(1)	(1)	12.0	10.9	11.6	152.9	156.5	156.7
11 Rockland County	81.5	82.0	82.9	(1)	(1)	(1)	2.5	2.5	2.7	15.9	15.8	16.0
12 Syracuse	261.3	259.7	259.7	(1)	(1)	(1)	9.7	8.7	9.6	58.9	59.1	59.2
13 Utica—Rome	116.0	113.9	115.5	(1)	(1)	(1)	2.9	2.5	2.9	31.1	30.0	30.1
14 Westchester County	352.1	353.5	356.9	(1)	(1)	(1)	15.4	14.7	15.8	74.4	74.6	74.7
NORTH CAROLINA	2,392.0	2,397.3	2,400.1	5.3	5.0	5.0	120.0	111.1	112.8	824.5	821.4	822.3
15 Asheville	71.2	69.3	69.7	(1)	(1)	(1)	3.5	2.9	3.0	22.0	21.2	21.2
16 Charlotte—Gastonia	338.6	335.6	336.1	(1)	(1)	(1)	18.2	17.3	17.3	94.2	93.0	93.2
17 Greensboro—Winston-Salem—HighPt.	386.0	389.2	388.5	(1)	(1)	(1)	17.2	16.9	16.9	148.9	150.3	149.9
18 Raleigh—Durham	270.9	271.5	269.0	(1)	(1)	(1)	14.1	12.3	12.6	44.7	43.7	42.7
NORTH DAKOTA	248.8	245.2	249.4	7.6	6.5	10.0	17.3	13.4	15.2	15.4	14.9	15.0
19 Fargo—Moorhead	62.7	62.2	63.1	(2)	(2)	(2)	4.0	3.0	3.5	4.8	4.6	4.7
OHIO	4,418.2	4,370.5	4,401.1	29.2	20.9	21.3	179.6	163.0	170.4	1,252.5	1,256.5	1,255.2
20 Akron	266.5	260.7	262.4	(*)	(*)	(*)	8.3	7.0	7.6	79.6	78.1	77.5
21 Canton	159.4	155.8	155.6	(*)	(*)	(*)	5.6	5.1	4.8	56.9	55.0	54.4
22 Cincinnati	608.4	607.7	611.1	(*)	(*)	(*)	26.0	25.0	25.8	162.7	162.4	162.2
23 Cleveland	905.2	895.2	895.3	(*)	(*)	(*)	33.4	31.0	31.9	251.5	250.7	251.1
24 Columbus	514.7	517.9	520.8	(*)	(*)	(*)	20.9	19.3	20.1	95.5	94.4	94.7
25 Dayton	356.9	357.6	357.6	(*)	(*)	(*)	13.1	11.9	11.5	99.3	100.3	100.3
26 Toledo	294.6	295.7	298.3	(*)	(*)	(*)	13.8	12.6	13.2	71.5	76.6	76.7
27 Youngstown—Warren	204.8	199.7	203.4	(*)	(*)	(*)	7.1	6.4	6.8	69.6	69.7	69.8
OKLAHOMA	1,136.8	1,174.5	1,180.5	70.0	81.2	81.9	58.2	57.7	57.5	191.1	192.3	193.4
28 Enid	25.5	26.0	25.8	1.8	2.2	2.1	1.8	1.7	1.6	2.9	3.0	3.0
29 Lawton	29.7	25.2	25.3	(1)	(1)	(1)	1.6	1.6	1.6	2.9	2.8	2.8
30 Oklahoma City	398.3	419.4	422.5	17.3	19.6	20.0	20.2	22.4	23.6	55.0	55.5	55.5
31 Tulsa	304.8	315.2	317.3	21.1	23.0	23.2	17.9	17.9	18.4	62.4	64.7	65.1
OREGON	1,042.9	1,018.0	1,022.2	2.3	2.1	2.3	46.1	38.3	38.4	204.9	203.6	204.6
32 Eugene—Springfield	102.0	100.7	101.4	(1)	(1)	(1)	4.3	4.0	4.0	18.2	18.5	18.8
33 Jackson County	-	-	-	-	-	-	-	-	-	6.8	6.9	7.2
34 Portland	557.2	546.1	545.4	(1)	(1)	(1)	24.4	21.2	20.5	112.1	110.0	109.5
35 Salem	86.5	84.1	(*)	(1)	(1)	(*)	4.2	3.8	(*)	11.0	11.3	(*)
PENNSYLVANIA	4,794.1	4,694.9	4,714.6	49.1	27.5	26.2	193.2	177.7	182.6	1,339.4	1,301.3	1,299.1
36 Allentown—Bethlehem—Easton	267.3	263.1	263.6	(1)	(1)	(1)	9.0	8.6	7.8	108.4	106.0	106.0
37 Altoona	51.3	49.7	50.1	(1)	(1)	(1)	2.2	2.2	2.2	12.6	12.6	12.8
38 Delaware Valley	1,593.8	1,578.4	1,581.8	(1)	(1)	(1)	62.6	60.3	61.0	372.0	362.1	361.4
39 Erie	115.2	111.3	111.7	(1)	(1)	(1)	3.0	3.1	3.2	43.0	40.6	40.7
40 Harrisburg	223.8	223.0	224.3	(1)	(1)	(1)	8.8	7.7	7.7	42.2	42.3	42.3
41 Johnstown	86.7	77.6	77.9	8.3	3.0	3.0	3.0	2.2	2.3	19.1	17.3	17.3
42 Lancaster	155.4	154.8	155.6	(1)	(1)	(1)	7.0	6.6	6.8	59.3	59.3	59.2
43 Northeast Pennsylvania	241.5	239.7	240.3	1.2	1.2	.5	11.2	11.3	11.7	71.0	71.1	71.3
44 Philadelphia SMSA	1,926.5	1,906.6	1,910.2	(1)	(1)	(1)	76.3	73.8	73.9	442.8	431.4	430.8
45 Philadelphia City	786.8	781.3	782.7	(1)	(1)	(1)	20.0	19.7	19.5	135.7	132.2	132.8
46 Pittsburgh	962.7	945.2	943.7	10.4	4.5	4.5	47.2	43.6	44.3	245.1	241.6	238.7
47 Reading	138.4	140.9	141.0	(1)	(1)	(1)	5.3	5.1	5.2	52.6	53.9	53.6
48 Scranton	86.6	85.8	86.7	(1)	(1)	(1)	2.2	2.5	2.8	27.4	28.2	28.5
49 Wilkes-Barre—Hazleton	124.9	124.9	124.1	1.1	1.1	.4	7.7	7.7	7.6	38.4	38.2	38.2
50 Williamsport	45.9	46.7	45.9	(1)	(1)	(1)	1.4	1.3	1.4	15.5	16.0	15.2
51 York	157.4	155.9	155.9	(1)	(1)	(1)	6.8	6.4	5.9	65.3	64.7	64.9
RHODE ISLAND	399.8	396.4	398.0	(1)	(1)	(1)	13.1	12.3	12.6	128.1	125.6	125.3
52 Providence—Warwick—Pawtucket	406.9	403.5	405.2	(1)	(1)	(1)	13.3	12.6	12.9	142.0	138.5	138.5
SOUTH CAROLINA	1,199.1	1,191.6	1,194.7	1.9	1.9	1.9	73.8	70.7	70.9	396.0	385.6	386.3
53 Charleston—North Charleston	149.2	151.0	151.4	(1)	(1)	(1)	12.0	10.9	11.0	19.6	20.6	20.8
54 Columbia	180.4	180.1	179.8	(1)	(1)	(1)	8.3	8.4	8.5	27.8	27.3	27.0
55 Greenville—Spartanburg	265.7	264.0	264.1	(1)	(1)	(1)	17.3	17.1	17.5	105.6	102.4	102.2

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government				
MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P		
27.9	26.5	26.7	113.5	113.0	114.2	22.4	22.4	22.5	101.5	103.2	104.1	89.6	87.7	87.4	1	
1.4	1.3	1.3	8.3	8.8	8.9	1.0	1.1	1.1	7.0	7.4	7.4	6.8	6.7	6.5	2	
10.2	10.2	10.2	59.4	58.9	59.5	14.3	14.3	14.4	68.3	70.2	70.3	42.9	41.8	41.4	3	
25.3	35.3	40.1	229.1	240.6	244.1	51.8	51.5	52.2	204.3	206.8	209.4	182.9	178.5	176.6	4	
(*)	469.7	(*)	(*)	1,387.3	(*)	(*)	635.6	(*)	(*)	1,618.1	(*)	(*)	1,091.1	(*)	(*)	5
319.7	320.3	322.9	956.3	952.5	959.2	517.6	526.2	527.7	1,202.9	1,232.7	1,238.5	789.8	775.4	774.6	6	
280.4	281.0	282.8	717.2	711.9	715.1	465.8	474.3	475.6	958.8	1,026.1	1,029.3	606.8	597.0	598.0	7	
256.9	257.5	256.2	615.3	608.0	610.2	444.3	452.8	454.0	890.6	915.9	917.6	526.5	518.3	519.3	8	
2.9	2.8	2.9	16.1	16.2	16.2	2.7	2.7	2.7	17.9	18.0	18.2	24.4	23.7	23.5	9	
12.7	12.6	12.6	76.7	75.6	76.5	16.0	16.0	16.1	80.6	81.5	81.8	64.2	63.3	62.7	10	
3.5	3.5	3.5	17.7	18.0	18.4	2.6	2.5	2.5	18.1	18.3	18.4	21.2	21.4	21.5	11	
14.9	14.7	14.7	57.2	56.1	57.2	16.3	16.6	16.8	52.5	53.7	52.3	51.7	50.8	50.0	12	
3.9	3.9	4.0	22.0	21.7	22.1	5.5	5.4	5.5	21.0	21.3	21.7	29.5	29.0	29.3	13	
16.3	19.4	19.6	81.2	82.8	93.5	18.4	18.5	18.6	87.5	89.4	90.7	55.8	52.9	54.0	14	
116.8	117.1	117.4	469.7	470.6	473.3	94.5	95.9	96.7	240.4	252.2	253.1	420.8	422.9	419.5	15	
3.6	3.6	3.6	14.7	14.9	15.0	2.1	2.1	2.1	12.6	12.6	12.8	12.7	12.0	12.0	16	
21.2	21.0	21.1	82.9	82.2	82.1	21.0	21.0	21.2	53.0	53.6	53.6	38.1	37.5	37.5	17	
21.7	21.3	21.2	76.9	76.3	76.8	17.8	18.2	18.3	56.0	58.5	58.3	47.5	47.7	47.1	18	
13.5	13.8	13.9	52.2	51.5	51.8	15.6	15.7	15.8	57.3	58.3	57.8	73.5	76.2	73.4	19	
16.9	16.9	17.1	67.9	66.2	67.2	11.4	11.8	11.9	49.4	50.8	51.2	62.9	61.7	61.8	20	
3.9	3.9	4.0	19.0	19.0	19.2	3.8	3.8	3.8	13.9	14.5	14.4	13.4	13.4	13.5	21	
226.2	219.7	220.6	973.3	957.7	966.6	204.4	207.1	207.9	839.0	853.2	861.9	712.7	692.3	697.2	22	
14.3	13.6	13.7	57.5	56.0	56.5	9.3	9.2	9.2	50.6	51.1	51.8	46.4	45.4	45.9	23	
7.2	6.9	7.0	33.6	32.8	33.1	6.1	6.3	6.3	29.2	29.9	30.1	19.5	18.8	18.9	24	
33.0	33.3	33.5	142.4	141.1	142.0	32.6	32.2	33.4	123.3	125.9	127.5	87.1	86.3	86.4	25	
46.9	45.2	45.5	210.6	206.2	207.9	48.2	48.8	48.8	188.7	191.4	192.2	124.3	120.7	120.6	26	
24.7	24.7	24.9	122.0	123.2	124.3	37.6	39.4	39.4	105.5	110.1	110.4	107.8	106.1	106.2	27	
13.2	13.2	13.2	74.3	72.3	73.1	13.5	13.6	13.7	72.0	75.7	74.7	71.1	70.2	70.6	28	
20.1	19.6	19.7	67.7	65.9	66.7	10.8	11.0	11.0	60.5	61.4	61.8	49.7	48.0	48.5	29	
9.7	9.2	9.2	45.5	44.3	44.6	7.1	7.2	7.2	38.2	38.8	39.2	27.1	27.7	26.3	30	
66.0	68.6	69.3	266.3	278.7	281.2	56.5	57.5	58.1	197.7	211.4	212.4	229.0	227.1	226.7	31	
2.8	2.8	2.8	6.8	7.0	7.0	1.1	1.1	1.1	4.5	4.5	4.5	3.8	3.7	3.7	32	
1.3	1.3	1.3	7.2	7.1	7.1	1.2	1.2	1.4	4.4	4.4	4.5	11.1	10.7	10.6	33	
23.0	24.8	24.9	96.8	103.9	104.6	24.6	25.3	25.7	72.8	79.5	79.8	88.6	88.4	88.4	34	
24.1	24.2	24.2	70.3	72.5	72.8	15.6	15.7	15.9	59.7	64.2	64.4	33.7	33.0	33.3	35	
60.2	59.4	60.1	254.1	250.7	250.8	69.5	67.7	68.1	191.9	191.5	191.8	213.9	204.7	206.1	36	
5.1	5.1	5.1	25.5	25.0	25.1	5.3	5.2	5.2	19.8	20.0	20.1	23.8	22.9	23.1	37	
...	38
36.5	35.7	36.1	141.5	139.1	138.7	45.4	45.5	45.5	111.3	111.7	112.1	86.0	82.9	83.0	39	
2.8	2.8	(*)	19.1	18.8	(*)	5.5	5.4	(*)	14.7	14.5	(*)	28.3	27.5	(*)	40	
267.1	254.4	253.9	987.7	976.8	988.9	236.1	239.4	240.5	975.2	984.1	989.2	746.3	733.7	733.8	41	
14.2	14.0	14.1	51.5	49.5	50.0	9.5	9.8	9.9	44.3	45.5	46.1	30.4	29.7	29.7	42	
7.0	6.4	6.4	11.0	10.7	10.7	1.5	1.6	1.6	9.0	8.6	8.7	8.0	7.6	7.7	43	
83.2	81.0	81.2	329.4	326.2	324.9	107.9	110.7	111.3	354.6	402.2	405.9	244.1	234.9	236.1	44	
5.3	5.4	5.4	22.2	21.9	22.2	4.9	5.0	5.0	22.2	22.7	22.5	14.6	12.6	12.6	45	
16.9	15.8	15.9	45.5	45.1	45.1	12.9	12.2	13.1	40.3	40.8	42.0	57.4	58.1	58.2	46	
5.3	4.5	4.5	16.3	15.9	16.0	4.0	4.0	4.0	16.0	15.7	15.8	14.7	15.0	15.0	47	
6.3	6.1	6.4	34.3	34.4	34.9	5.5	5.7	5.7	26.6	27.2	27.2	16.4	15.5	15.4	48	
13.2	13.0	13.2	49.8	49.6	49.7	9.6	9.8	9.9	44.7	43.7	44.1	40.8	40.0	39.9	49	
99.0	95.5	95.9	415.0	412.6	411.6	124.5	126.9	127.6	461.2	471.3	474.4	307.7	295.1	296.0	50	
52.9	50.0	50.1	145.3	144.0	144.0	66.2	67.0	67.3	216.4	220.2	219.6	150.3	148.2	149.4	51	
60.9	57.3	56.6	209.5	210.5	212.4	46.2	45.6	46.4	215.9	218.3	217.4	127.5	123.8	123.4	52	
6.3	6.2	6.2	27.5	27.9	28.0	6.1	6.3	6.3	23.1	24.0	24.3	17.5	17.5	17.4	53	
4.2	4.2	4.1	19.0	18.4	18.6	3.5	3.6	3.6	17.9	17.0	17.1	12.4	11.9	12.0	54	
7.1	7.1	7.2	25.6	26.2	26.1	5.1	5.1	5.2	19.6	19.5	19.5	20.3	20.0	19.9	55	
2.4	2.4	2.3	5.8	10.0	9.9	2.1	2.2	2.2	7.9	8.1	8.2	6.8	6.7	6.7	56	
7.4	7.4	7.4	32.2	33.9	33.7	3.9	3.7	3.9	21.8	21.7	21.9	19.0	18.1	18.2	57	
13.0	13.3	13.3	80.9	80.4	80.8	20.8	20.8	20.8	83.4	84.7	85.9	60.5	59.3	59.3	58	
13.0	13.3	13.3	80.6	80.9	81.4	20.9	20.9	20.8	80.4	81.6	82.7	56.7	55.7	55.6	59	
52.7	54.3	54.5	224.8	225.2	227.0	47.7	48.2	48.7	160.6	162.3	163.6	241.6	243.4	241.8	60	
8.7	9.5	9.5	31.7	32.0	32.4	6.4	6.5	6.5	23.8	25.1	24.9	47.0	46.4	46.3	61	
9.4	9.6	9.6	37.9	37.4	37.4	13.9	14.3	14.4	27.2	27.2	27.3	55.9	55.9	55.6	62	
10.2	10.0	10.0	50.8	51.8	51.7	9.4	9.4	9.4	36.7	37.4	37.5	35.7	35.9	35.8	63	

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8 Employees on nonagricultural payrolls for States and selected areas by industry division—Continued

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
1 SOUTH DAKOTA	241.4	233.2	236.7	2.9	2.8	2.8	11.5	8.8	9.9	26.2	25.5	25.9
2 Rapid City	32.3	31.7	32.1	(2)	(2)	(2)	2.2	1.9	1.8	3.0	3.1	3.1
3 Sioux Falls	54.3	54.4	54.9	(2)	(2)	(2)	2.6	1.9	2.2	7.6	7.9	8.1
4 TENNESSEE	1,753.1	1,722.0	1,731.7	9.7	10.1	10.4	77.7	68.7	68.8	505.9	510.6	512.7
5 Chattanooga	169.2	166.5	166.5	1.2	1.2	1.3	6.4	6.3	6.4	50.6	49.2	49.0
6 Knoxville	(*)	199.6	201.0	(*)	1.7	1.7	(*)	10.4	10.7	(*)	52.3	52.8
7 Memphis	358.5	357.6	356.7	.2	.1	.1	15.9	15.0	14.3	55.7	59.4	59.7
8 Nashville—Davidson	357.1	357.0	355.4	(1)	(1)	(1)	13.1	15.8	16.6	78.8	80.5	80.9
9 TEXAS	5,820.7	6,079.0	6,101.5	232.4	260.5	264.2	426.1	427.9	429.7	1,048.4	1,073.9	1,076.6
10 Abilene	55.8	57.1	57.5	4.2	4.4	4.6	3.1	3.1	3.2	5.7	5.7	5.9
11 Amarillo	75.5	75.6	75.6	(1)	(1)	(1)	4.3	4.1	4.1	9.8	10.1	10.1
12 Austin	241.4	247.9	249.4	(1)	(1)	(1)	14.0	14.7	14.8	30.2	30.7	30.8
13 Beaumont—Port Arthur Orange	149.6	149.3	149.8	(1)	(1)	(1)	12.8	6.3	6.4	39.6	43.6	43.7
14 Corpus Christi	125.9	126.7	126.8	6.8	6.2	6.2	13.7	12.9	13.0	16.2	16.6	16.7
15 Dallas—Fort Worth	1,453.1	1,513.4	1,519.1	24.5	27.2	27.5	84.2	90.8	91.6	318.0	323.5	323.7
16 El Paso	162.0	163.7	164.0	(1)	(1)	(1)	8.1	7.8	8.0	36.5	36.8	37.2
17 Galveston—Texas City	70.1	72.2	72.7	(1)	(1)	(1)	5.0	4.5	4.6	10.9	12.5	12.5
18 Houston	1,432.4	1,483.4	1,487.8	78.1	85.5	85.8	144.6	144.8	143.2	240.2	251.4	252.5
19 Longview—Marshall	64.3	65.4	65.3	(1)	(1)	(1)	4.8	4.5	4.4	18.5	19.3	19.4
20 Lubbock	89.4	89.3	89.3	(1)	(1)	(1)	4.2	4.2	4.3	13.6	11.8	11.8
21 Midland	41.7	44.4	44.8	10.1	11.7	11.8	3.1	2.8	2.5	3.9	3.7	3.7
22 Odessa	51.9	55.8	56.1	8.0	8.5	8.5	4.2	5.0	5.2	7.1	8.0	8.0
23 San Angelo	35.0	36.3	36.4	.8	.9	.9	2.1	2.2	2.2	6.4	6.3	6.2
24 San Antonio	397.5	406.2	405.4	2.5	2.9	2.9	27.5	28.8	28.1	50.8	52.6	53.2
25 Sherman—Denison	36.8	37.1	36.9	.1	.2	.2	1.8	1.9	1.9	13.9	13.0	12.8
26 Waco	71.1	73.1	73.4	(1)	(1)	(1)	3.6	3.5	3.6	16.2	17.0	17.3
27 Wichita Falls	52.7	53.7	53.9	3.2	3.5	3.5	2.7	2.4	2.5	9.2	10.0	10.1
28 UTAH	552.6	554.7	554.4	19.0	16.7	16.7	31.9	28.1	29.3	88.2	89.3	89.9
29 Salt Lake City—Ogden	392.2	394.6	396.1	7.9	7.9	7.9	21.8	18.7	19.8	60.4	61.6	62.0
30 VERMONT	198.8	200.8	201.3	.8	.7	.4	9.9	8.7	9.6	50.7	50.4	49.1
31 Burlington	56.8	58.6	59.1	-	-	-	-	-	-	14.4	15.2	15.3
32 Springfield	14.5	14.1	14.1	-	-	-	-	-	-	6.3	6.3	6.1
33 VIRGINIA	2,119.9	2,123.2	2,132.4	23.8	13.5	13.5	125.0	114.4	116.0	408.7	407.8	408.7
34 Bristol	28.5	28.9	29.0	(1)	(1)	(1)	1.4	1.5	1.5	5.3	9.3	9.4
35 Lynchburg	72.6	71.6	71.3	(1)	(1)	(1)	3.6	3.3	3.5	29.3	29.0	28.9
36 Newport News—Hampton	151.5	156.3	157.7	(1)	(1)	(1)	7.2	7.2	7.2	33.7	35.4	35.3
37 Norfolk—Virginia Beach—Portsmouth	284.8	286.3	289.8	(1)	(1)	(1)	15.6	15.6	16.0	29.5	28.6	29.1
38 Northern Virginia	429.0	440.7	442.8	.4	.4	.4	27.1	28.4	28.5	16.9	17.7	17.6
39 Petersburg—Colonial Hghts—Holyoke	48.6	46.3	46.5	(1)	(1)	(1)	3.5	2.2	2.3	11.7	11.5	11.4
40 Richmond	326.9	330.8	331.0	.4	.3	.3	16.7	16.1	16.5	55.1	56.1	56.2
41 Roanoke	105.2	103.1	103.1	.1	.1	.1	6.2	5.5	5.5	21.0	20.9	21.0
42 WASHINGTON	1,622.2	1,595.8	1,606.1	3.1	3.2	3.3	95.3	89.3	91.6	306.0	298.6	303.2
43 Seattle—Everett	785.1	783.9	785.9	(1)	(1)	(1)	41.2	36.6	37.1	173.2	170.8	170.8
44 Spokane	128.3	126.9	127.2	(1)	(1)	(1)	7.2	5.7	5.9	17.1	16.6	16.8
45 Tacoma	140.8	142.1	142.5	(1)	(1)	(1)	7.0	6.4	6.7	21.6	23.0	23.4
46 WEST VIRGINIA	652.1	589.4	588.6	65.8	18.8	18.5	38.2	31.3	32.8	117.2	114.0	114.2
47 Charleston	117.8	109.0	109.0	7.2	2.0	2.0	7.0	5.8	6.1	18.0	16.9	17.1
48 Huntington—Ashland	106.3	102.5	102.0	1.1	.6	.6	5.6	4.4	4.6	27.7	25.1	25.2
49 Parkersburg—Marietta	59.1	58.0	58.0	.9	.9	.9	3.7	3.1	3.3	16.9	16.9	17.0
50 Wheeling	66.8	60.6	61.0	5.7	1.1	1.3	3.1	2.5	2.6	12.2	12.0	12.3
51 WISCONSIN	1,937.6	1,934.8	1,950.5	2.8	2.1	2.5	72.5	65.2	67.5	545.4	544.8	545.8
52 Appleton—Oshkosh	126.3	124.9	125.5	(1)	(1)	(1)	6.4	5.9	5.8	47.0	45.5	45.8
53 Eau Claire	47.0	48.8	49.3	(1)	(1)	(1)	1.8	1.9	1.7	7.3	8.8	8.0
54 Green Bay	78.7	78.0	78.0	(1)	(1)	(1)	3.3	2.9	2.9	21.5	21.1	21.1
55 Janesville—Beloit	46.7	52.3	52.6	(1)	(1)	(1)	1.8	1.8	1.8	14.8	20.9	20.9
56 Kenosha	38.8	41.8	42.1	(1)	(1)	(1)	2.8	1.9	1.9	11.7	16.3	16.2
57 La Crosse	45.4	46.1	46.1	(1)	(1)	(1)	1.7	1.6	1.4	11.1	10.7	10.9
58 Madison	169.4	171.1	171.9	(1)	(1)	(1)	6.6	6.5	6.6	19.7	19.8	20.1
59 Milwaukee	676.2	669.5	672.4	(1)	(1)	(1)	20.7	20.4	20.8	208.0	198.7	198.5
60 Racine	70.2	68.5	68.6	(1)	(1)	(1)	1.8	1.5	1.6	30.8	29.9	29.6
61 WYOMING	204.9	202.4	205.0	34.1	36.2	36.3	19.5	17.5	17.2	10.3	11.1	11.2
62 Casper	39.0	38.8	39.7	7.1	6.5	7.1	3.9	3.6	3.7	1.8	1.9	1.8
63 Cheyenne	30.1	28.6	28.3	(1)	(1)	(1)	2.1	2.2	2.3	1.7	1.5	1.5

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	
13.4	13.3	13.3	65.4	63.0	63.7	11.1	11.0	11.2	50.9	49.8	50.6	60.0	59.0	59.3	1
2.0	1.9	1.9	9.2	8.9	9.1	1.5	1.8	1.8	7.0	6.8	7.0	7.4	7.3	7.4	2
4.8	4.9	5.0	16.1	16.3	16.2	3.3	3.4	3.3	12.9	13.2	13.3	7.0	6.8	6.8	3
86.6	81.0	81.9	377.5	366.2	365.4	78.3	76.3	76.4	292.5	289.4	297.6	324.9	319.7	318.5	4
7.2	7.2	7.2	32.8	32.5	32.7	9.4	9.3	9.3	27.9	27.3	27.4	33.7	33.5	33.2	5
(*)	8.1	8.1	(*)	41.7	42.1	(*)	8.2	8.2	(*)	31.4	31.8	(*)	45.8	45.6	6
27.3	26.6	26.7	96.1	96.2	96.0	19.1	19.2	19.2	73.5	73.6	74.0	66.7	67.5	66.7	7
19.4	18.1	18.1	81.1	80.0	78.3	24.3	24.1	24.0	70.8	73.4	73.4	64.6	64.1	64.1	8
365.4	377.1	379.0	1,416.1	1,460.0	1,468.7	332.0	350.4	349.7	1,015.1	1,069.6	1,076.8	985.2	1,059.6	1,056.8	9
3.1	3.2	3.2	15.6	14.9	15.5	2.5	2.8	2.8	12.7	12.8	12.8	9.6	9.5	9.5	10
7.3	7.3	7.3	22.7	22.2	22.4	3.8	3.7	3.7	14.9	15.4	15.3	12.7	12.8	12.7	11
7.3	7.4	7.5	50.8	51.8	52.8	14.4	15.1	15.1	44.1	44.6	45.0	80.6	83.6	83.4	12
11.6	12.1	12.4	33.8	33.5	33.5	5.4	5.9	5.8	26.2	27.8	27.9	20.2	20.1	20.1	13
7.5	7.5	7.4	28.7	29.8	29.8	5.7	5.6	5.5	20.9	21.8	22.0	26.4	26.3	26.2	14
93.8	96.2	96.9	382.0	399.6	402.2	108.5	113.9	114.3	257.0	275.9	276.8	185.1	186.3	186.1	15
10.9	11.0	11.1	39.3	39.3	39.2	7.4	7.3	7.4	25.5	25.2	25.1	34.3	36.3	36.0	16
6.7	6.9	6.8	13.9	14.3	14.6	4.6	4.7	4.6	10.9	11.3	11.5	18.1	18.0	18.1	17
102.1	105.4	106.3	343.9	348.4	350.1	87.2	91.4	91.2	273.7	289.1	291.4	162.6	167.4	167.3	18
3.6	3.6	3.5	15.1	15.0	14.9	2.3	2.4	2.4	12.8	13.1	13.2	7.2	7.5	7.5	19
5.2	5.0	4.9	26.0	26.6	26.6	4.7	4.8	4.9	16.3	17.3	17.2	19.4	19.6	19.6	20
2.4	2.4	2.4	9.3	9.8	9.9	2.2	2.5	2.6	6.1	6.8	6.8	4.6	4.7	4.7	21
2.4	2.6	2.6	15.6	16.3	16.4	1.9	2.0	2.1	6.4	6.9	6.9	6.3	6.5	6.4	22
3.2	3.5	3.5	8.2	8.5	8.6	1.5	1.6	1.6	6.5	6.9	6.9	6.3	6.4	6.4	23
18.4	18.8	18.9	97.7	98.7	98.3	26.5	27.6	27.6	79.0	82.2	82.0	95.1	94.6	94.4	24
2.4	2.5	2.5	6.9	7.2	7.2	1.2	1.3	1.3	5.5	6.0	6.0	5.0	5.0	5.0	25
3.4	3.5	3.5	17.2	17.4	17.5	4.0	4.3	4.3	15.0	15.7	15.6	11.7	11.7	11.6	26
2.7	2.7	2.7	13.1	13.3	13.3	2.3	2.4	2.4	8.2	8.3	8.3	11.2	11.1	11.1	27
34.4	34.9	35.1	128.0	128.2	129.3	25.5	26.1	26.0	96.6	101.8	98.3	129.0	129.7	129.9	28
27.2	27.4	27.5	95.1	95.6	96.2	20.5	20.9	20.9	67.7	70.2	69.5	91.7	92.4	92.4	29
8.9	8.7	8.7	40.5	41.0	41.9	8.1	8.3	8.4	42.4	44.6	45.4	37.5	38.4	37.8	30
2.5	2.3	2.4	11.9	12.0	12.1	-	-	-	12.1	12.7	13.0	-	-	-	31
.7	.7	.7	2.1	2.0	2.1	-	-	-	2.5	2.4	2.4	-	-	-	32
114.7	113.7	114.2	442.3	452.0	455.9	105.3	107.5	107.5	387.0	397.9	400.6	513.1	516.4	516.0	33
1.2	1.2	1.2	6.6	6.8	6.7	1.0	1.0	1.0	3.7	3.7	3.8	5.3	5.4	5.4	34
2.8	2.6	2.7	11.8	11.4	11.3	3.5	3.6	3.6	11.1	11.1	10.8	10.5	10.6	10.5	35
5.2	5.2	5.2	28.4	29.2	29.3	5.1	5.1	5.2	28.8	31.0	32.1	43.1	43.2	43.4	36
19.1	19.0	19.2	67.9	70.8	72.0	14.6	14.7	14.8	54.8	56.9	58.1	83.3	80.7	80.6	37
28.7	28.9	29.2	97.3	100.2	100.7	27.1	27.8	28.1	111.6	115.1	115.7	119.9	122.2	122.6	38
1.6	1.5	1.5	8.3	8.1	8.4	1.3	1.3	1.3	6.1	6.5	6.5	16.1	15.2	15.1	39
19.7	20.0	20.1	72.3	74.8	74.8	27.0	27.0	26.7	60.1	61.0	61.2	75.6	75.5	75.2	40
9.9	9.1	8.8	25.7	25.5	25.5	6.3	6.3	6.3	19.9	19.8	20.0	16.1	15.9	15.9	41
91.2	88.7	88.4	384.4	375.4	378.4	91.6	92.6	93.0	308.2	316.0	316.8	342.4	332.0	331.4	42
53.6	53.4	53.2	186.5	186.3	187.4	55.9	57.4	57.4	152.7	159.7	159.8	122.0	119.7	120.2	43
8.0	7.7	7.7	35.4	34.7	35.1	8.0	8.3	8.3	28.8	30.5	30.0	23.8	23.4	23.4	44
6.9	7.0	6.9	33.0	32.8	33.1	7.2	7.5	7.6	30.6	32.1	31.3	34.5	33.3	33.5	45
43.6	41.2	39.6	130.1	131.2	131.2	22.0	22.1	22.2	98.8	98.3	98.2	136.4	132.5	132.0	46
10.0	9.6	9.5	26.8	26.4	26.4	5.2	5.1	5.1	20.5	20.4	20.4	23.1	22.9	22.4	47
10.1	9.2	8.7	23.3	25.3	25.2	3.7	3.8	3.8	15.7	15.4	15.6	19.1	18.8	18.5	48
2.6	2.5	2.5	12.9	12.6	12.5	2.0	2.1	2.1	10.1	10.1	10.0	9.9	9.8	9.7	49
4.0	3.7	3.7	15.7	15.2	15.3	2.8	2.8	2.8	13.7	13.9	13.8	9.6	9.3	9.3	50
93.2	91.7	91.7	437.4	432.8	441.1	92.9	94.5	94.9	363.8	374.7	379.4	329.7	328.9	327.6	51
4.4	4.3	4.3	25.9	25.5	25.8	5.3	5.5	5.5	20.7	21.3	21.6	16.7	16.8	16.8	52
2.6	2.6	2.6	12.9	13.1	13.4	1.6	1.6	1.6	9.7	10.2	10.3	11.0	10.6	10.8	53
5.8	5.7	6.0	19.4	19.9	19.8	2.4	2.4	2.4	14.9	15.5	15.5	11.4	10.6	10.2	54
1.9	2.1	2.0	11.4	11.0	11.2	1.3	1.3	1.3	8.7	8.2	8.2	6.7	7.1	7.1	55
1.2	1.1	1.3	8.3	8.0	8.2	1.1	1.1	1.1	7.8	7.7	7.8	5.9	5.7	5.7	56
2.4	2.3	2.3	11.6	12.3	12.4	1.1	1.1	1.1	10.0	10.9	11.0	7.4	7.2	7.1	57
6.3	6.3	6.4	35.3	35.3	35.8	12.6	12.8	12.9	31.0	32.1	32.1	58.0	58.3	58.0	58
34.5	33.9	33.8	144.2	142.6	144.1	39.4	39.6	39.8	141.1	147.3	148.6	88.2	86.8	86.8	59
2.3	2.3	2.3	13.0	12.3	12.6	2.2	2.2	2.2	11.4	11.4	11.4	8.7	8.9	8.9	60
17.1	18.2	19.0	44.3	40.0	40.2	7.2	7.3	7.2	28.7	28.7	30.0	43.7	43.4	43.9	61
2.8	3.3	3.4	10.5	9.9	10.0	1.7	1.9	1.9	5.8	5.9	5.8	5.4	5.8	6.0	62
4.4	4.4	4.2	6.9	6.0	5.9	1.5	1.5	1.4	4.8	4.3	4.4	8.7	8.7	8.6	63

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-8 Employees on nonagricultural payrolls for States and selected areas by industry division—Continued

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
1. PUERTO RICO	(*)	(*)	(*)	.9	.9	(*)	41.6	35.4	(*)	(*)	(*)	(*)
2. Caguas	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
3. Mayaguez	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
4. Ponce	(*)	(*)	(*)	(*)	(*)	(*)	4.0	2.8	(*)	(*)	(*)	(*)
5. San Juan	(*)	(*)	(*)	(*)	(*)	(*)	28.8	24.5	(*)	(*)	(*)	(*)
6. VIRGIN ISLANDS	27.0	26.7	26.9	(2)	(2)	(2)	3.2	2.8	3.0	3.2	3.1	3.2

- ¹ Combined with services.
- ² Combined with construction.
- ³ Area included in Chicago-Gary Standard Consolidated Statistical Area.
- ⁴ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.
- ⁵ Subarea of New York—Northeastern New Jersey.
- ⁶ Subarea of Rochester Standard Metropolitan Statistical Area.
- ⁷ Area included in New York and Nassau-Suffolk combined SMSA's.
- ⁸ Subarea of New York Standard Metropolitan Statistical Area.
- ⁹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.
- ¹⁰ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical

- Area: Philadelphia County.
- ¹¹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.
- ¹² Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.
- ¹³ Total includes data for industry divisions not shown separately.
- ¹⁴ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.
- p = preliminary.
- * Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government		
MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
17.2	17.7	(*)	114.5	112.3	(*)	27.0	27.8	(*)	84.8	83.0	(*)	259.4	259.4	(*)
(*)	(*)	(*)	5.6	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	12.8	12.0	(*)
(*)	(*)	(*)	5.7	5.7	(*)	(*)	(*)	(*)	(*)	(*)	(*)	16.1	15.6	(*)
(*)	(*)	(*)	7.9	7.6	(*)	(*)	(*)	(*)	(*)	(*)	(*)	19.2	18.9	(*)
13.7	(*)	(*)	72.2	71.1	(*)	20.3	20.8	(*)	57.8	(*)	(*)	119.4	122.2	(*)
2.0	2.1	2.0	7.5	7.5	7.5	1.5	1.6	1.6	6.0	6.0	5.8	13.5	13.6	13.7

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

**C-1. Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls by industry division, 1960 to date**

Year and month	Average												
	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Hourly earnings excl. overtime
	Total private ¹			Mining			Construction			Manufacturing			
1960.....	\$80.67	38.6	\$2.09	\$105.04	40.4	\$2.60	\$122.67	36.7	\$3.07	\$89.72	39.7	\$2.26	\$2.19
1961.....	82.60	38.6	2.14	106.92	40.5	2.64	122.47	36.9	3.20	92.34	39.8	2.32	2.25
1962.....	85.91	38.7	2.22	110.70	41.0	2.70	127.19	37.0	3.31	96.56	40.4	2.39	2.31
1963.....	88.46	38.8	2.28	114.40	41.6	2.75	132.06	37.2	3.41	99.23	40.5	2.45	2.37
1964.....	91.33	38.7	2.36	117.74	41.9	2.81	138.38	37.4	3.55	102.97	40.7	2.53	2.43
1965.....	95.45	38.8	2.46	123.52	42.3	2.92	146.26	37.6	3.70	107.53	41.2	2.61	2.50
1966.....	98.82	38.6	2.56	130.24	42.7	3.05	154.95	37.7	3.89	112.19	41.4	2.71	2.59
1967.....	101.84	38.0	2.68	135.89	42.6	3.19	164.49	37.3	4.11	114.49	40.6	2.82	2.71
1968.....	107.73	37.8	2.85	142.71	42.6	3.35	181.54	37.9	4.41	122.51	40.7	3.01	2.88
1969.....	114.61	37.7	3.04	154.80	43.0	3.60	195.45	37.3	4.79	129.51	40.6	3.19	3.05
1970.....	119.83	37.1	3.23	164.40	42.7	3.85	211.67	37.2	5.24	133.33	39.8	3.35	3.23
1971.....	127.31	36.9	3.45	172.14	42.4	4.06	221.19	36.5	5.69	142.44	39.9	3.57	3.45
1972.....	136.90	37.0	3.70	189.14	42.6	4.44	235.89	36.8	6.06	154.71	40.5	3.82	3.66
1973.....	145.39	36.9	3.94	201.40	42.4	4.75	249.25	36.6	6.41	166.46	40.7	4.09	3.91
1974.....	154.76	36.5	4.24	219.14	41.9	5.23	266.08	36.4	6.81	176.80	40.0	4.42	4.25
1975.....	163.53	36.1	4.53	249.31	41.9	5.95	283.73	36.8	7.31	190.79	39.5	4.83	4.67
1976.....	175.45	36.1	4.86	273.90	42.4	6.46	295.65	36.5	7.71	209.32	40.1	5.22	5.02
1977.....	189.00	36.0	5.25	301.20	43.4	6.94	318.69	36.8	8.10	228.90	40.3	5.68	5.44
1978.....	203.70	35.8	5.69	332.88	43.4	7.67	342.99	37.0	8.66	249.27	40.4	6.17	5.91
1979.....	219.91	35.7	6.16	365.07	43.0	8.49	367.04	37.0	9.27	269.34	40.2	6.70	6.43
1980.....	235.10	35.3	6.66	396.14	43.2	9.17	373.23	37.9	9.92	288.62	39.7	7.27	7.02
1980: June.....	233.33	35.3	6.61	395.28	43.2	9.15	374.49	37.3	9.79	282.96	39.3	7.20	6.99
July.....	234.39	35.3	6.64	380.94	42.0	9.07	386.84	38.0	9.90	282.85	38.8	7.29	7.07
August.....	236.79	35.5	6.67	395.71	43.2	9.16	388.10	37.9	10.04	287.62	39.4	7.30	7.06
September.....	239.69	35.3	6.79	404.99	43.5	9.31	376.83	36.8	10.18	295.32	39.8	7.42	7.16
October.....	241.81	35.3	6.85	408.10	43.6	9.36	384.28	37.2	10.24	298.10	39.8	7.49	7.23
November.....	244.28	35.3	6.92	413.76	43.6	9.49	378.84	36.8	10.24	305.52	40.2	7.60	7.32
December.....	247.06	35.6	6.94	422.04	44.1	9.57	397.06	37.6	10.33	314.16	40.8	7.70	7.40
1981: January.....	246.75	35.1	7.03	425.97	43.6	9.77	364.35	35.0	10.42	308.43	39.9	7.73	7.46
February.....	247.10	35.0	7.06	422.01	42.8	9.86	388.37	37.2	10.44	306.13	39.5	7.75	7.48
March.....	249.92	35.2	7.10	416.66	42.3	9.85	384.87	36.9	10.43	311.22	39.9	7.80	7.53
April.....	250.98	35.2	7.13	422.92	43.6	9.70	387.14	36.8	10.52	312.84	39.7	7.88	7.62
May.p.....	252.38	35.2	7.17	424.33	43.7	9.71	397.06	37.6	10.56	317.59	40.1	7.92	7.64
June.p.....	254.88	35.4	7.20	430.00	43.0	10.00				319.20	40.1	7.96	7.67
Year and month	Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			
	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Hourly earnings excl. overtime
1960.....	-	-	-	\$66.01	38.6	\$1.71	\$75.14	37.2	\$2.02	-	-	-	-
1961.....	-	-	-	67.41	38.3	1.76	77.12	36.9	2.09	-	-	-	-
1962.....	-	-	-	69.91	38.2	1.83	80.94	37.3	2.17	-	-	-	-
1963.....	-	-	-	72.01	38.1	1.89	84.38	37.5	2.25	-	-	-	-
1964.....	\$118.78	41.1	\$2.89	74.66	37.9	1.97	85.79	37.3	2.30	\$70.03	36.1	\$1.94	-
1965.....	125.14	41.3	3.03	76.91	37.7	2.04	88.91	37.2	2.39	73.60	35.9	2.05	-
1966.....	128.13	41.2	3.11	79.39	37.1	2.14	92.13	37.3	2.47	77.04	35.5	2.17	-
1967.....	130.82	40.5	3.23	82.35	36.6	2.25	95.72	37.1	2.58	80.38	35.1	2.29	-
1968.....	138.85	40.6	3.42	87.00	36.1	2.41	101.75	37.0	2.75	83.97	34.7	2.42	-
1969.....	147.74	40.7	3.63	91.39	35.7	2.56	108.70	37.1	2.93	90.57	34.7	2.61	-
1970.....	155.93	40.5	3.85	96.02	35.3	2.72	112.67	36.7	3.07	96.66	34.4	2.81	-
1971.....	168.82	40.1	4.21	101.09	35.1	2.88	117.85	36.6	3.22	103.06	33.9	3.04	-
1972.....	187.86	40.4	4.65	106.45	34.9	3.05	122.98	36.6	3.36	110.85	33.9	3.27	-
1973.....	203.31	40.5	5.02	111.76	34.6	3.23	129.20	36.6	3.53	117.29	33.8	3.47	-
1974.....	217.48	40.2	5.41	119.02	34.2	3.48	137.61	36.5	3.77	126.00	33.6	3.75	-
1975.....	233.44	39.7	5.88	126.45	33.9	3.73	148.19	36.5	4.06	134.67	33.5	4.02	-
1976.....	256.71	39.8	6.45	133.79	33.7	3.97	155.43	36.4	4.27	143.52	33.3	4.31	-
1977.....	278.90	39.9	6.99	142.52	33.3	4.28	165.26	36.4	4.54	153.45	33.0	4.65	-
1978.....	302.80	40.0	7.57	153.64	32.9	4.67	178.00	36.4	4.89	163.67	32.8	4.99	-
1979.....	325.58	39.9	8.16	164.96	32.6	5.06	190.77	36.2	5.27	175.27	32.7	5.36	-
1980.....	351.25	39.6	8.87	176.46	32.2	5.48	209.24	36.2	5.78	190.71	32.6	5.85	-
1980: June.....	345.23	39.5	8.74	175.71	32.3	5.44	210.03	36.4	5.77	190.57	32.8	5.81	-
July.....	354.71	39.9	8.89	178.65	32.6	5.48	208.87	36.2	5.77	191.32	33.1	5.78	-
August.....	354.92	39.7	8.94	179.52	32.7	5.49	211.63	36.3	5.83	192.31	33.1	5.81	-
September.....	358.09	39.7	9.02	179.03	32.2	5.56	211.91	36.1	5.87	193.32	32.6	5.93	-
October.....	365.76	39.8	9.19	179.44	32.1	5.59	214.53	36.3	5.91	195.60	32.6	6.00	-
November.....	368.02	39.7	9.27	181.04	32.1	5.64	218.53	36.3	6.02	198.53	32.6	6.09	-
December.....	372.00	40.0	9.30	182.65	32.5	5.62	217.80	36.3	6.00	199.51	32.6	6.12	-
1981: January.....	367.60	39.4	9.33	183.86	31.7	5.80	222.04	36.4	6.10	201.83	32.5	6.21	-
February.....	373.28	39.5	9.45	185.13	31.7	5.84	226.04	36.4	6.21	204.40	32.6	6.27	-
March.....	371.15	39.4	9.42	186.62	31.9	5.85	225.32	36.4	6.19	205.05	32.6	6.29	-
April.....	374.92	39.3	9.54	188.43	32.1	5.87	225.06	36.3	6.20	205.38	32.6	6.30	-
May.p.....	375.71	39.3	9.56	188.48	32.0	5.89	225.53	36.2	6.23	205.73	32.5	6.33	-
June.p.....	378.02	39.5	9.57	190.25	32.3	5.89	223.82	36.1	6.20	206.99	32.7	6.33	-

¹ For coverage of series, see footnote 1, table B-2.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, seasonal adjustment factors, and rebased indexes. Because of these revisions, data beginning in 1979 may differ from data published earlier. See article in this issue for additional information.

p = preliminary.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
-	TOTAL PRIVATE	\$229.60	\$233.33	\$250.98	\$252.38	\$254.88	\$6.56	\$6.61	\$7.13	\$7.17	\$7.20
-	MINING	387.29	395.28	422.92	424.33	430.00	9.07	9.15	9.70	9.71	10.00
10	METAL MINING	414.73	411.68	461.04	454.50	-	10.19	10.14	11.30	11.25	-
101	Iron ores	451.95	418.72	485.20	458.62	-	11.05	10.99	12.01	11.82	-
102	Copper ores	432.85	427.45	486.13	477.76	-	10.38	10.30	11.63	11.54	-
11, 12	COAL MINING	427.36	442.09	440.44	458.45	-	10.93	10.97	11.44	11.49	-
12	BITUMINOUS COAL AND LIGNITE MINING	428.93	442.20	443.50	460.45	-	10.97	11.00	11.56	11.54	-
13	OIL AND GAS EXTRACTION	377.16	386.86	427.95	428.85	-	8.40	8.54	9.51	9.53	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	392.04	399.84	447.91	444.64	-	9.68	9.80	10.69	10.74	-
138	Oil and gas field services	371.07	382.11	422.28	423.65	-	7.98	8.13	9.16	9.17	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	321.47	324.95	349.06	350.40	-	7.39	7.47	8.08	8.13	-
142	Crushed and broken stone	312.49	317.90	335.39	339.39	-	7.07	7.16	7.71	7.82	-
-	CONSTRUCTION	360.14	371.04	384.87	387.14	397.06	9.76	9.79	10.43	10.52	10.56
15	GENERAL BUILDING CONTRACTORS	329.78	334.70	340.78	342.49	-	9.11	9.12	9.44	9.54	-
152	Residential building construction	313.35	316.46	315.95	315.74	-	8.68	8.67	8.90	8.97	-
153	Operative builders	291.70	291.40	303.47	299.99	-	7.97	7.94	8.36	8.31	-
154	Nonresidential building construction	348.48	357.42	368.20	374.05	-	9.60	9.66	10.06	10.22	-
16	HEAVY CONSTRUCTION CONTRACTORS	362.10	379.26	394.80	397.80	-	9.03	9.03	9.87	9.97	-
161	Highway and street construction	342.34	380.19	362.48	367.32	-	8.58	8.70	8.95	9.16	-
162	Heavy construction, except highway	370.93	379.45	406.36	410.34	-	9.25	9.21	10.21	10.31	-
17	SPECIAL TRADE CONTRACTORS	376.20	387.50	403.60	405.36	-	10.45	10.53	11.18	11.26	-
171	Plumbing, heating, air conditioning and mechanical	396.00	400.75	421.88	425.63	-	10.56	10.63	11.25	11.32	-
172	Painting, paper hanging, decorating and wall covering	340.12	350.66	361.23	357.03	-	9.83	9.85	10.41	10.47	-
173	Electrical work	439.66	449.32	475.52	481.84	-	11.57	11.95	12.58	12.68	-
174	Masonry, stonework, and plastering	355.35	367.83	371.52	378.52	-	10.33	10.42	10.80	10.94	-
175	Carpentering and flooring	314.30	317.28	349.83	349.53	-	9.19	9.17	10.14	10.25	-
176	Roofing and sheet metal work	284.80	319.93	313.96	311.98	-	9.07	9.22	9.72	9.78	-
-	MANUFACTURING	280.21	282.96	312.84	317.59	319.20	7.13	7.20	7.88	7.92	7.96
24, 25, 32-39	DURABLE GOODS	300.56	304.90	338.52	343.07	345.10	7.59	7.68	8.40	8.45	8.50
20-23, 26-31	NONDURABLE GOODS	249.87	252.20	275.41	280.13	281.32	6.44	6.50	7.08	7.11	7.14
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	239.14	250.37	267.05	274.03	274.62	6.36	6.52	6.83	6.92	6.97
241	Logging camps and logging contractors	326.24	341.75	332.14	343.77	-	8.43	8.63	8.81	8.86	-
242	Sawmills and planing mills	243.00	257.74	279.40	286.43	-	6.48	6.66	7.02	7.16	-
2421	Sawmills and planing mills, general	256.74	272.22	293.72	302.35	-	6.81	6.98	7.38	7.54	-
2426	Hardwood dimension and flooring	173.72	176.81	197.01	195.42	-	4.67	4.69	4.95	4.96	-
243	Millwork, plywood, and structural members	233.00	242.82	264.03	268.60	-	6.23	6.34	6.77	6.80	-
2431	Millwork	238.01	239.53	262.96	271.47	-	6.33	6.32	6.83	6.89	-
2434	Wood kitchen cabinets	208.87	214.54	226.57	233.93	-	5.77	5.83	6.14	6.14	-
2435	Hardwood veneer and plywood	181.45	185.44	219.50	222.61	-	4.75	4.88	5.38	5.39	-
2436	Softwood veneer and plywood	293.76	315.34	334.14	331.57	-	7.69	7.71	8.23	8.31	-
244	Wood containers	182.29	180.07	209.83	214.66	-	4.94	4.92	5.45	5.49	-
245	Wood buildings and mobile homes	210.98	217.77	238.18	245.21	-	6.08	6.10	6.42	6.47	-
2451	Mobile homes	208.54	214.72	240.26	243.32	-	6.08	6.10	6.39	6.42	-
249	Miscellaneous wood products	206.31	211.29	234.95	237.10	-	5.29	5.39	5.83	5.84	-
25	FURNITURE AND FIXTURES	202.54	205.15	220.80	224.84	228.93	5.43	5.50	5.78	5.84	5.87
251	Household furniture	185.84	186.52	205.58	207.81	-	5.05	5.11	5.41	5.44	-
2511	Wood household furniture	172.22	171.08	192.61	196.06	-	4.68	4.70	4.99	5.04	-
2512	Upholstered household furniture	195.48	196.56	216.23	215.92	-	5.40	5.46	5.86	5.82	-
2514	Metal household furniture	202.90	198.35	215.28	220.13	-	5.27	5.39	5.45	5.63	-
2515	Mattresses and bedspings	202.63	213.94	225.67	225.33	-	5.66	5.69	6.05	6.09	-
252	Office furniture	227.17	231.47	246.13	254.56	-	5.87	5.92	6.36	6.38	-
253	Public building and related furniture	221.72	228.52	247.26	258.86	-	5.85	5.80	6.34	6.57	-
254	Partitions and fixtures	254.98	256.61	265.30	269.80	-	6.64	6.70	7.00	7.10	-
259	Miscellaneous furniture and fixtures	231.72	239.32	253.04	256.96	-	6.05	6.20	6.39	6.44	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
-	TOTAL PRIVATE	35.0	35.3	35.2	35.2	35.4	-	-	-	-	-
-	MINING	42.7	43.2	43.6	43.7	43.0	-	-	-	-	-
10	METAL MINING	40.7	40.6	40.8	40.4	-	-	-	-	-	
101	Iron ores	40.9	38.1	40.4	38.8	-	-	-	-	-	
102	Copper ores	41.7	41.5	41.8	41.4	-	-	-	-	-	
11, 12	COAL MINING	39.1	40.3	38.5	39.9	-	-	-	-	-	
12	BITUMINOUS COAL AND LIGNITE MINING	39.1	40.2	38.4	39.9	-	-	-	-	-	
13	OIL AND GAS EXTRACTION	44.9	45.3	45.0	45.0	-	-	-	-	-	
131, 2	Crude petroleum, natural gas, and natural gas liquids	40.5	40.8	41.9	41.4	-	-	-	-	-	
138	Oil and gas field services	46.5	47.0	46.1	46.2	-	-	-	-	-	
14	NONMETALLIC MINERALS, EXCEPT FUELS	43.5	43.5	43.2	43.1	-	-	-	-	-	
142	Crushed and broken stone	44.2	44.4	43.5	43.4	-	-	-	-	-	
-	CONSTRUCTION	36.9	37.9	36.9	36.8	37.6	-	-	-	-	
15	GENERAL BUILDING CONTRACTORS	36.2	36.7	36.1	35.9	-	-	-	-	-	
152	Residential building construction	36.1	36.5	35.5	35.2	-	-	-	-	-	
153	Operative builders	36.6	36.7	36.3	36.1	-	-	-	-	-	
154	Nonresidential building construction	36.3	37.0	36.6	36.6	-	-	-	-	-	
16	HEAVY CONSTRUCTION CONTRACTORS	40.1	42.0	40.0	39.9	-	-	-	-	-	
161	Highway and street construction	39.9	43.7	40.5	40.1	-	-	-	-	-	
162	Heavy construction, except highway	40.1	41.2	39.8	39.8	-	-	-	-	-	
17	SPECIAL TRADE CONTRACTORS	36.0	36.8	36.1	36.0	-	-	-	-	-	
171	Plumbing, heating, air conditioning	37.5	37.7	37.5	37.6	-	-	-	-	-	
172	Painting, paper hanging, decorating	34.6	35.6	34.7	34.1	-	-	-	-	-	
173	Electrical work	38.0	37.6	37.8	38.0	-	-	-	-	-	
174	Masonry, stonework, and plastering	34.4	35.3	34.4	34.6	-	-	-	-	-	
175	Carpentering and flooring	34.2	34.6	34.5	34.1	-	-	-	-	-	
176	Roofing and sheet metal work	31.4	34.7	32.3	31.9	-	-	-	-	-	
-	MANUFACTURING	39.3	39.3	39.7	40.1	40.1	2.5	2.5	2.6	2.9	3.0
24, 25, 32-39	DURABLE GOODS	39.6	39.7	40.3	40.6	40.6	2.5	2.4	2.7	3.0	3.0
20-23, 26-31	NONDURABLE GOODS	38.8	38.8	38.9	39.4	39.4	2.5	2.5	2.6	2.9	2.9
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	37.6	38.4	39.1	39.6	39.4	2.3	2.5	2.7	2.9	-
241	Logging camps and logging contractors	38.7	39.6	37.7	38.8	-	3.4	3.8	3.8	3.4	-
242	Sawmills and planing mills	37.5	38.7	39.8	40.0	-	2.8	3.1	3.2	3.3	-
2421	Sawmills and planing mills, general	37.7	39.0	39.8	40.1	-	3.0	3.4	3.4	3.5	-
2426	Hardwood dimension and flooring	37.2	37.7	39.8	39.4	-	2.0	1.9	2.4	2.5	-
243	Millwork, plywood, and structural members	37.4	38.3	39.0	39.5	-	1.7	1.9	2.3	2.5	-
2431	Millwork	37.6	37.9	38.5	39.4	-	1.3	1.5	1.6	2.0	-
2434	Wood kitchen cabinets	36.2	36.8	36.9	38.1	-	1.2	1.3	1.1	1.4	-
2435	Hardwood veneer and plywood	38.2	38.0	40.8	41.3	-	2.3	2.2	3.6	3.9	-
2436	Softwood veneer and plywood	38.2	40.9	40.6	39.9	-	2.6	3.0	3.7	3.5	-
244	Wood containers	36.9	36.6	38.5	39.1	-	1.9	1.7	2.2	2.6	-
245	Wood buildings and mobile homes	34.7	35.7	37.1	37.9	-	.9	1.1	1.6	1.8	-
2451	Mobile homes	34.3	35.2	37.6	37.9	-	.7	.8	1.2	1.3	-
249	Miscellaneous wood products	39.0	39.2	40.3	40.6	-	2.3	2.3	2.7	2.9	-
25	FURNITURE AND FIXTURES	37.3	37.3	38.2	38.5	39.0	1.4	1.4	1.7	1.9	-
251	Household furniture	36.8	36.5	38.0	38.2	-	1.2	1.1	1.6	1.8	-
2511	Wood household furniture	36.8	36.4	38.6	38.9	-	1.4	1.1	1.7	2.0	-
2512	Upholstered household furniture	36.2	36.0	36.9	37.1	-	.9	.7	1.1	1.1	-
2514	Metal household furniture	38.5	36.8	39.5	39.1	-	1.6	1.3	2.9	3.3	-
2515	Mattresses and bedsprings	35.8	37.6	37.3	37.0	-	1.4	2.0	1.4	1.7	-
252	Office furniture	38.7	39.1	38.7	39.9	-	1.8	1.9	2.1	2.4	-
253	Public building and related furniture	37.9	39.4	39.0	39.4	-	1.8	2.4	1.9	2.4	-
254	Partitions and fixtures	38.4	38.3	37.9	38.0	-	1.9	2.1	1.5	1.9	-
259	Miscellaneous furniture and fixtures	38.3	38.6	39.6	39.9	-	.8	.8	1.6	1.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
32	STONE, CLAY, AND GLASS PRODUCTS	\$302.06	\$308.73	\$331.70	\$336.20	\$337.43	\$7.44	\$7.53	\$8.11	\$8.18	\$8.25
321	Flat glass	370.64	385.84	427.84	431.90	-	9.22	9.48	10.59	10.56	-
322	Glass and glassware, pressed or blown	325.99	329.26	356.94	359.10	-	7.99	8.07	9.77	8.78	-
3221	Glass containers	354.35	356.42	385.33	386.88	-	8.58	8.63	9.33	9.30	-
3229	Pressed and blown glass, nec	288.64	292.33	318.40	321.60	-	7.18	7.29	7.98	8.04	-
323	Products of purchased glass	245.12	242.94	289.87	292.13	-	6.40	6.41	7.32	7.34	-
324	Cement, hydraulic	443.52	454.97	476.27	460.43	-	10.56	10.68	11.18	11.23	-
325	Structural clay products	242.48	244.73	267.55	267.55	-	6.17	6.18	6.59	6.59	-
326	Pottery and related products	241.34	240.24	270.38	272.16	-	6.22	6.24	6.88	6.89	-
327	Concrete, gypsum, and plaster products	303.97	316.63	331.97	340.62	-	7.36	7.45	7.98	8.11	-
3271	Concrete block and brick	276.41	283.96	312.61	318.08	-	6.55	6.65	7.12	7.38	-
3272	Concrete products, nec	275.22	277.38	291.33	303.16	-	6.60	6.62	7.02	7.15	-
3273	Ready-mixed concrete	330.48	351.42	357.14	366.38	-	8.10	8.23	8.84	8.98	-
329	Misc. nonmetallic mineral products	298.41	299.63	326.72	333.31	-	7.35	7.38	7.93	8.09	-
3291	Abrasive products	292.40	287.62	314.36	321.77	-	7.31	7.30	7.63	7.81	-
3292	Asbestos products	295.80	302.81	327.98	346.88	-	7.25	7.44	7.98	8.22	-
33	PRIMARY METAL INDUSTRIES	378.07	377.32	443.31	437.22	443.21	9.62	9.65	10.76	10.69	10.81
331	Blast furnace and basic steel products	432.02	427.12	528.78	506.74	-	11.28	11.24	12.56	12.42	-
3312	Blast furnaces and steel mills	446.53	441.13	549.83	522.45	-	11.72	11.67	13.06	12.90	-
3317	Steel pipe and tubes	340.84	347.65	414.41	427.65	-	8.83	8.96	10.01	10.11	-
332	Iron and steel foundries	313.17	314.73	346.99	357.80	-	8.03	8.07	8.92	8.99	-
3321	Gray iron foundries	305.94	311.12	351.51	360.11	-	8.03	8.06	9.13	9.21	-
3322	Malleable iron foundries	325.84	331.74	372.17	372.96	-	8.62	8.87	9.47	9.49	-
3325	Steel foundries, nec	327.23	319.98	335.12	351.90	-	8.04	8.06	8.42	8.50	-
333	Primary nonferrous metals	435.96	448.33	483.81	481.28	-	10.38	10.70	11.63	11.71	-
3334	Primary aluminum	458.13	481.64	511.70	515.01	-	10.96	11.55	12.36	12.47	-
335	Nonferrous rolling and drawing	350.99	355.25	403.54	406.83	-	8.54	8.75	9.54	9.55	-
3351	Copper rolling and drawing	303.38	291.78	357.81	367.63	-	7.70	7.52	8.36	8.51	-
3353	Aluminum sheet, plate, and foil	443.31	445.10	523.15	510.77	-	10.53	10.99	12.11	11.99	-
3357	Nonferrous wire drawing and insulating	318.57	326.36	366.17	372.70	-	7.77	7.96	8.76	8.79	-
336	Nonferrous foundries	282.82	282.30	313.23	323.19	-	7.16	7.22	7.87	7.98	-
3361	Aluminum foundries	288.75	289.20	324.40	332.92	-	7.31	7.34	8.11	8.20	-
34	FABRICATED METAL PRODUCTS	292.47	297.94	323.61	332.52	334.96	7.33	7.43	8.05	8.17	8.23
341	Metal cans and shipping containers	429.00	434.28	459.61	470.21	-	9.75	9.87	10.59	10.76	-
3411	Metal cans	447.55	453.77	476.10	486.82	-	10.08	10.22	10.97	11.14	-
342	Cutlery, hand tools, and hardware	267.11	268.66	304.56	314.41	-	6.92	6.96	7.73	7.88	-
3423, 5	Hand and edge tools, and hand saws and blades	259.00	263.25	296.94	299.55	-	6.78	6.82	7.35	7.47	-
3429	Hardware, nec	276.38	276.86	317.00	331.97	-	7.16	7.21	8.17	8.32	-
343	Plumbing and heating, except electric	251.90	251.79	273.54	279.24	-	6.56	6.54	7.05	7.16	-
3432	Plumbing fittings and brass goods	244.35	242.70	271.55	274.00	-	6.38	6.37	6.84	6.85	-
3433	Heating equipment, except electric	249.23	251.02	261.95	270.23	-	6.44	6.42	6.93	7.13	-
344	Fabricated structural metal products	287.28	290.73	310.04	315.97	-	7.20	7.25	7.79	7.86	-
3441	Fabricated structural metal	306.34	309.89	328.84	334.96	-	7.49	7.54	8.04	8.13	-
3442	Metal doors, sash, and trim	227.94	228.54	247.40	249.99	-	5.89	5.86	6.36	6.41	-
3443	Fabricated plate work (boiler shops)	319.76	323.83	344.61	352.19	-	7.78	7.66	8.53	8.59	-
3444	Sheet metal work	279.41	285.38	309.28	315.22	-	7.22	7.28	7.91	7.96	-
3446	Architectural metal work	266.13	264.49	283.75	287.96	-	6.67	6.73	7.22	7.29	-
345	Screw machine products, bolts, etc.	279.33	273.03	303.86	311.00	-	6.88	6.86	7.54	7.66	-
3451	Screw machine products	255.33	252.49	277.99	285.29	-	6.32	6.36	7.02	7.15	-
3452	Bolts, nuts, rivets, and washers	302.33	292.93	330.03	337.41	-	7.41	7.36	8.03	8.15	-
346	Metal forgings and stampings	325.01	344.00	386.10	397.44	-	8.27	8.60	9.44	9.60	-
3462	Iron and steel forgings	351.78	398.05	398.80	412.27	-	9.02	9.50	9.97	10.08	-
3465	Automotive stampings	389.26	412.97	492.15	505.74	-	9.93	10.35	11.58	11.68	-
3469	Metal stampings, nec	257.54	258.07	279.58	287.36	-	6.52	6.55	7.06	7.22	-
347	Metal services, nec	239.19	239.79	258.73	264.14	-	5.95	5.95	6.42	6.49	-
3471	Plating and polishing	230.10	227.94	250.98	254.48	-	5.84	5.80	6.37	6.41	-
3479	Metal coating and allied services	258.52	265.63	276.87	284.86	-	6.17	6.25	6.53	6.64	-
348	Ordinance and accessories, nec	299.62	303.73	329.65	334.55	-	7.29	7.39	8.06	8.14	-
3483	Ammunition, exc. for small arms, nec	269.96	272.25	290.27	297.35	-	6.80	6.91	7.33	7.49	-
349	Misc. fabricated metal products	278.40	279.70	298.45	308.21	-	6.96	7.01	7.48	7.61	-
3494	Valves and pipe fittings	299.47	298.89	324.79	336.15	-	7.34	7.38	7.98	8.10	-
3496	Misc. fabricated wire products	241.03	244.37	262.94	270.28	-	6.15	6.14	6.59	6.69	-
35	MACHINERY, EXCEPT ELECTRICAL	319.90	322.75	353.74	360.50	363.85	7.86	7.93	8.67	8.75	8.81
351	Engines and turbines	363.94	372.06	426.12	440.90	-	9.38	9.54	10.60	10.78	-
3511	Turbines and turbine generator sets	350.33	352.41	383.04	391.53	-	8.65	8.68	9.60	9.62	-
3519	Internal combustion engines, nec	367.48	377.86	441.69	457.97	-	9.62	9.84	10.96	11.17	-
352	Farm and garden machinery	336.73	346.32	388.40	389.70	-	8.59	8.88	9.59	9.67	-
3523	Farm machinery and equipment	350.15	357.75	406.41	406.02	-	8.82	9.08	10.01	10.05	-
353	Construction and related machinery	339.76	346.63	391.11	397.40	-	8.41	8.58	9.47	9.53	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
32	STONE, CLAY, AND GLASS PRODUCTS	40.6	41.0	40.9	41.1	40.9	3.4	3.6	3.8	3.9	-
321	Flat glass	40.2	40.7	40.4	40.9	-	3.3	3.0	3.3	3.4	-
322	Glass and glassware, pressed or blown	40.8	40.8	40.7	40.9	-	3.7	3.7	3.8	3.9	-
3221	Glass containers	41.3	41.3	41.3	41.6	-	4.1	4.2	4.3	4.3	-
3229	Pressed and blown glass, nec	40.2	40.1	39.9	40.0	-	3.2	3.1	3.2	3.4	-
323	Products of purchased glass	38.3	37.9	39.6	39.8	-	1.5	1.5	2.8	2.9	-
324	Cement, hydraulic	42.0	42.6	42.6	41.0	-	2.9	2.9	3.5	3.1	-
325	Structural clay products	39.3	39.6	40.6	40.6	-	2.8	2.7	3.0	3.0	-
326	Pottery and related products	38.8	38.5	39.3	39.5	-	2.2	1.9	2.1	1.9	-
327	Concrete, gypsum, and plaster products	41.3	42.5	41.6	42.0	-	4.6	5.2	5.1	5.3	-
3271	Concrete block and brick	42.2	42.7	43.0	43.1	-	4.3	5.0	5.5	5.6	-
3272	Concrete products, nec	41.7	41.9	41.5	42.4	-	4.2	4.3	4.3	4.6	-
3273	Ready-mixed concrete	40.8	42.7	40.4	40.8	-	4.9	5.9	5.0	5.4	-
329	Misc. nonmetallic mineral products	40.6	40.6	41.2	41.2	-	2.8	2.9	3.3	3.4	-
3291	Abrasive products	40.0	39.4	41.2	41.2	-	2.8	2.3	2.8	3.0	-
3292	Asbestos products	40.8	40.7	41.1	42.2	-	2.1	2.1	2.7	2.9	-
33	PRIMARY METAL INDUSTRIES	39.3	39.1	41.2	40.9	41.0	2.3	2.1	3.2	3.2	-
331	Blast furnace and basic steel products	38.3	38.0	42.1	40.8	-	1.7	1.4	3.2	2.8	-
3312	Blast furnaces and steel mills	38.1	37.8	42.1	40.5	-	1.6	1.3	3.2	2.6	-
3317	Steel pipe and tubes	38.6	38.8	41.4	42.3	-	1.8	1.9	3.8	4.5	-
332	Iron and steel foundries	39.0	39.0	38.9	39.8	-	2.2	2.1	2.5	3.0	-
3321	Gray iron foundries	38.1	38.6	38.5	39.1	-	1.9	1.8	2.6	3.1	-
3322	Malleable iron foundries	37.8	37.4	39.3	39.3	-	2.0	1.7	2.4	2.6	-
3325	Steel foundries, nec	40.7	39.7	39.8	41.4	-	3.0	2.7	2.3	3.0	-
333	Primary nonferrous metals	42.0	41.9	41.6	41.1	-	3.8	3.8	3.5	3.2	-
3334	Primary aluminum	41.8	41.7	41.4	41.3	-	3.9	4.0	3.6	3.5	-
335	Nonferrous rolling and drawing	41.1	40.6	42.3	42.6	-	3.5	3.1	4.5	4.7	-
3351	Copper rolling and drawing	39.4	38.8	42.8	43.2	-	2.6	2.2	4.7	5.3	-
3353	Aluminum sheet, plate and foil	42.1	40.5	43.2	42.6	-	6.0	4.6	5.9	5.9	-
3357	Nonferrous wire drawing and insulating	41.0	41.0	41.8	42.4	-	2.9	2.8	4.4	4.8	-
336	Nonferrous foundries	39.5	39.1	39.8	40.5	-	2.1	2.0	2.3	2.6	-
3361	Aluminum foundries	39.5	39.4	40.0	40.6	-	2.3	2.1	2.7	2.8	-
34	FABRICATED METAL PRODUCTS	39.9	40.1	40.2	40.7	40.7	2.5	2.4	2.5	3.0	-
341	Metal cans and shipping containers	44.0	44.0	43.4	43.7	-	4.1	4.2	4.2	4.5	-
3411	Metal cans	44.4	44.4	43.4	43.7	-	4.1	4.1	4.0	4.3	-
342	Cutlery, hand tools, and hardware	38.6	38.6	39.4	39.9	-	1.6	1.4	2.0	2.6	-
3423, 5	Hand and edge tools, and hand saws and blades	38.2	38.6	40.4	40.1	-	1.5	1.3	2.4	2.4	-
3429	Hardware, nec	38.6	38.4	38.8	39.9	-	1.5	1.3	1.9	2.9	-
343	Plumbing and heating, except electric	38.4	38.5	38.8	39.0	-	1.7	1.5	1.9	1.8	-
3432	Plumbing fittings and brass goods	38.3	38.1	39.7	40.0	-	1.7	1.1	1.7	2.2	-
3433	Heating equipment, except electric	38.7	39.1	37.8	37.9	-	1.8	1.8	.9	1.2	-
344	Fabricated structural metal products	39.9	40.1	39.8	40.2	-	2.5	2.5	2.3	2.5	-
3441	Fabricated structural metal	40.9	41.1	40.9	41.2	-	3.3	3.5	2.8	2.9	-
3442	Metal doors, sash, and trim	38.7	39.0	38.9	39.0	-	1.8	1.6	1.8	2.1	-
3443	Fabricated plate work (boiler shops)	41.1	41.2	40.4	41.0	-	2.5	2.6	2.5	2.9	-
3444	Sheet metal work	38.7	39.2	39.1	39.6	-	2.3	2.5	2.1	2.3	-
3446	Architectural metal work	39.9	39.3	39.3	39.5	-	2.6	2.1	1.5	1.9	-
345	Screw machine products, bolts, etc.	40.6	39.8	40.3	40.6	-	3.3	2.8	2.5	3.0	-
3451	Screw machine products	40.4	39.7	39.6	39.9	-	3.4	3.0	2.5	2.7	-
3452	Bolts, nuts, rivets, and washers	40.8	39.8	41.1	41.4	-	3.1	2.6	2.6	3.3	-
346	Metal forgings and stampings	39.3	40.0	40.9	41.4	-	2.2	2.3	3.3	3.9	-
3462	Iron and steel forgings	39.0	41.9	40.0	40.9	-	2.6	2.5	2.9	3.3	-
3465	Automotive stampings	39.2	39.9	42.5	43.3	-	1.5	1.7	4.7	5.6	-
3469	Metal stampings, nec	39.5	39.4	39.6	39.8	-	2.4	2.4	2.1	2.6	-
347	Metal services, nec	40.2	40.3	40.3	40.7	-	3.2	3.1	2.4	2.9	-
3471	Plating and polishing	39.4	39.3	39.4	39.7	-	3.0	2.8	2.5	2.7	-
3479	Metal coating and allied services	41.9	42.5	42.4	42.9	-	3.6	3.6	2.2	3.2	-
348	Ordinance and accessories, nec	41.1	41.1	40.9	41.1	-	2.4	2.7	2.7	2.7	-
3483	Ammunition, exc. for small arms, nec	39.7	39.4	39.6	39.7	-	1.5	1.8	1.9	1.7	-
349	Misc. fabricated metal products	40.0	39.9	39.9	40.5	-	2.4	2.2	2.3	2.8	-
3494	Valves and pipe fittings	40.8	40.5	40.7	41.5	-	2.9	2.6	2.9	3.5	-
3496	Misc. fabricated wire products	39.2	39.8	39.9	40.4	-	2.0	1.9	2.1	2.5	-
35	MACHINERY, EXCEPT ELECTRICAL	40.7	40.7	40.8	41.2	41.3	3.1	3.0	3.0	3.3	-
351	Engines and turbines	38.8	39.0	40.2	40.9	-	1.6	1.9	2.8	3.5	-
3511	Turbines and turbine generator sets	40.5	40.6	39.9	40.7	-	3.7	4.0	2.9	3.4	-
3519	Internal combustion engines, nec	38.2	38.4	40.3	41.0	-	1.0	1.2	2.7	3.5	-
352	Farm and garden machinery	39.2	39.0	40.5	40.3	-	2.3	2.1	3.3	3.3	-
3523	Farm machinery and equipment	39.7	39.4	40.6	40.4	-	2.5	2.3	3.6	3.5	-
353	Construction and related machinery	40.4	40.4	41.3	41.7	-	2.8	2.7	3.0	3.5	-

See footnotes at end of table.

ESTABLISHMENT DATA
HOURS AND EARNINGS

C-2. Gross hours and earnings of production or nonsupervisory workers' on private nonagricultural payrolls by industry—Continued

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery	\$ 355.42	\$ 370.37	\$ 429.74	\$ 434.57	-	\$ 9.28	\$ 9.62	\$ 10.69	\$ 10.73	-
3532	Mining machinery	344.02	344.43	364.98	382.55	-	8.35	8.36	9.24	9.54	-
3533	Oil field machinery	351.92	346.09	405.86	409.89	-	7.98	8.03	8.92	8.93	-
3535	Conveyers and conveying equipment	309.50	311.04	316.42	324.82	-	7.68	7.68	8.24	8.35	-
3537	Industrial trucks and tractors	297.96	302.25	312.86	318.45	-	7.64	7.75	8.19	8.25	-
354	Metalworking machinery	343.48	343.51	366.50	374.22	-	8.12	8.14	8.81	8.91	-
3541	Machine tools, metal cutting types	363.49	361.05	374.69	385.10	-	8.28	8.30	8.90	9.04	-
3542	Machine tools, metal forming types	349.87	348.47	360.08	366.92	-	8.37	8.52	9.07	9.15	-
3544	Special dies, tools, jigs, and fixtures	371.09	370.22	399.50	403.42	-	8.65	8.65	9.40	9.47	-
3545	Machine tool accessories	307.33	306.36	330.42	336.15	-	7.37	7.40	8.02	8.10	-
3546	Power driven hand tools	244.86	254.02	271.81	285.59	-	6.41	6.48	7.06	7.23	-
355	Special industry machinery	304.96	307.02	326.82	334.55	-	7.42	7.47	8.03	8.14	-
3551	Food products machinery	321.50	318.37	339.55	348.75	-	7.88	7.90	8.51	8.59	-
3552	Textile machinery	245.84	246.85	261.95	265.17	-	6.07	6.08	6.50	6.58	-
3555	Printing trades machinery	323.76	327.33	350.20	354.45	-	7.60	7.63	8.24	8.34	-
356	General industrial machinery	322.29	320.72	343.80	355.47	-	7.88	7.88	8.51	8.67	-
3561	Pumps and pumping equipment	314.38	314.42	339.37	352.69	-	7.84	7.92	8.57	8.73	-
3562	Ball and roller bearings	331.69	328.44	354.41	368.46	-	7.86	7.82	8.54	8.69	-
3563	Air and gas compressors	353.93	342.38	381.07	382.69	-	8.25	8.29	9.03	9.09	-
3564	Blowers and fans	299.30	303.26	311.15	316.80	-	7.30	7.29	7.74	7.92	-
3566	Speed changers, drives, and gears	361.38	367.22	383.35	409.89	-	8.75	8.87	9.35	9.69	-
3568	Power transmission equipment, nec	300.53	302.35	336.20	338.66	-	7.57	7.54	8.22	8.24	-
357	Office and computing machines	272.33	273.24	299.88	303.32	-	6.61	6.60	7.35	7.38	-
3573	Electronic computing equipment	274.48	275.39	298.98	300.53	-	6.63	6.62	7.31	7.33	-
358	Refrigeration and service machinery	275.26	280.13	315.22	319.97	-	7.04	7.11	7.92	7.92	-
3585	Refrigeration and heating equipment	279.24	283.75	322.78	330.49	-	7.16	7.22	8.11	8.10	-
359	Misc. machinery, except electrical	314.11	311.48	340.66	349.38	-	7.68	7.71	8.37	8.48	-
3592	Carburetors, pistons, rings, valves	346.58	355.50	391.72	412.10	-	8.73	9.00	9.72	9.93	-
3599	Machinery, except electrical, nec	307.91	304.16	332.11	337.84	-	7.51	7.51	8.14	8.22	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	266.06	270.28	298.90	302.76	\$303.16	6.77	6.86	7.51	7.55	\$7.56
361	Electric distributing equipment	266.17	265.48	293.38	299.83	-	6.79	6.86	7.39	7.44	-
3612	Transformers	261.35	262.80	292.82	296.53	-	6.55	6.67	7.23	7.25	-
3613	Switchgear and switchboard apparatus	270.13	267.78	294.39	301.68	-	6.98	7.01	7.51	7.58	-
362	Electrical industrial apparatus	276.51	277.90	313.80	317.02	-	6.93	7.00	7.71	7.77	-
3621	Motors and generators	275.20	279.20	316.52	317.42	-	6.88	6.98	7.72	7.78	-
3622	Industrial controls	277.01	274.13	293.25	300.13	-	6.96	6.94	7.50	7.56	-
363	Household appliances	254.18	264.62	299.38	295.99	-	6.76	6.82	7.56	7.57	-
3632	Household refrigerators and freezers	272.16	301.04	358.03	336.40	-	7.56	7.66	8.69	8.67	-
3633	Household laundry equipment	298.37	312.78	348.98	343.77	-	8.13	8.02	8.88	8.86	-
3634	Electric housewares and fans	218.01	221.70	231.46	232.83	-	5.59	5.67	5.95	5.97	-
364	Electric lighting and wiring equipment	248.61	247.26	274.62	280.70	-	6.31	6.34	6.97	7.00	-
3641	Electric lamps	281.29	272.25	306.92	312.73	-	6.98	6.91	7.77	7.76	-
3643	Current-carrying wiring devices	240.40	236.01	264.26	269.69	-	5.98	5.99	6.59	6.61	-
3644	Noncurrent-carrying wiring devices	258.96	261.46	294.03	294.11	-	6.64	6.67	7.26	7.28	-
3645	Residential lighting fixtures	184.02	185.50	205.88	216.01	-	4.96	5.00	5.49	5.64	-
365	Radio and TV receiving equipment	230.35	245.36	276.53	282.57	-	6.11	6.44	7.22	7.19	-
3651	Radio and TV receiving sets	237.13	252.79	287.27	292.53	-	6.29	6.67	7.54	7.52	-
366	Communication equipment	311.58	315.15	341.60	347.90	-	7.77	7.82	8.54	8.59	-
3661	Telephone and telegraph apparatus	319.60	321.20	353.50	358.22	-	7.99	8.05	8.75	8.78	-
3662	Radio and TV communication equipment	306.28	311.00	334.32	340.94	-	7.60	7.66	8.40	8.46	-
367	Electronic components and accessories	234.63	238.37	258.30	261.60	-	5.94	6.05	6.49	6.54	-
3671-3	Electronic tubes	308.16	308.59	337.35	332.93	-	7.39	7.49	8.09	8.16	-
3674	Semiconductors and related devices	264.40	271.07	290.47	296.87	-	6.66	6.88	7.28	7.33	-
3679	Electronic components, nec	222.16	225.32	240.98	244.99	-	5.61	5.69	6.07	6.14	-
369	Misc. electrical equipment and supplies	301.08	307.72	347.27	351.14	-	7.72	7.83	8.66	8.67	-
3691	Storage batteries	291.06	297.56	328.20	335.67	-	7.70	7.81	8.33	8.35	-
3694	Engine electrical equipment	329.64	340.08	389.77	389.60	-	8.54	8.72	9.72	9.74	-
37	TRANSPORTATION EQUIPMENT	360.70	368.80	415.74	426.40	426.63	9.04	9.22	10.14	10.25	10.33
371	Motor vehicles and equipment	362.78	375.97	448.11	462.09	-	9.35	9.69	10.85	10.95	-
3711	Motor vehicles and car bodies	396.68	406.15	502.94	523.44	-	10.25	10.66	12.09	12.23	-
3713	Truck and bus bodies	295.09	310.46	341.88	346.40	-	7.89	7.84	8.59	8.66	-
3714	Motor vehicle parts and accessories	351.90	364.45	427.23	437.38	-	9.00	9.25	10.27	10.34	-
3715	Truck trailers	263.65	260.25	274.16	278.99	-	6.92	6.94	7.45	7.42	-
372	Aircraft and parts	380.38	383.22	412.41	421.64	-	9.10	9.19	10.01	10.16	-
3721	Aircraft	391.94	397.99	430.76	438.24	-	9.49	9.59	10.43	10.56	-
3724	Aircraft engines and engine parts	384.47	382.12	405.41	414.10	-	9.22	9.32	10.11	10.25	-
3728	Aircraft equipment, nec	354.32	354.84	383.24	395.40	-	8.24	8.31	9.06	9.26	-
373	Ship and boat building and repairing	330.07	333.74	353.97	-	-	8.17	8.16	8.74	-	-
3731	Shipbuilding and repairing	345.98	346.88	372.20	-	-	8.48	8.44	9.19	-	-
3732	Boat building and repairing	265.69	277.31	292.01	307.75	-	6.83	6.95	7.21	7.38	-
374	Railroad equipment	376.74	382.78	412.68	423.94	-	9.76	9.84	10.86	11.04	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	38.3	38.5	40.2	40.5	-	1.1	1.1	1.8	2.1	-
3532	Mining machinery	41.2	41.2	39.5	40.1	-	2.7	2.5	1.6	2.0	-
3533	Oil field machinery	44.1	43.1	45.5	45.9	-	5.8	5.3	5.9	6.5	-
3535	Conveyers and conveying equipment	40.3	40.5	38.4	38.9	-	3.2	2.8	2.3	2.4	-
3537	Industrial trucks and tractors	39.0	39.0	38.2	38.6	-	1.8	2.0	1.7	2.2	-
354	Metalworking machinery	42.3	42.2	41.6	42.0	-	4.6	4.5	3.9	4.2	-
3541	Machine tools, metal cutting types	43.9	43.5	42.1	42.6	-	6.1	5.9	4.0	4.5	-
3542	Machine tools, metal forming types	41.8	40.9	39.7	40.1	-	4.5	4.6	2.6	3.0	-
3544	Special dies, tools, jigs, and fixtures	42.9	42.8	42.5	42.6	-	5.0	4.8	4.9	5.2	-
3545	Machine tool accessories	41.7	41.4	41.2	41.5	-	4.0	3.9	3.3	3.5	-
3546	Power driven hand tools	38.2	39.2	38.5	39.5	-	1.7	2.0	1.4	2.0	-
355	Special industry machinery	41.1	41.1	40.7	41.1	-	3.1	3.1	2.5	2.8	-
3551	Food products machinery	40.8	40.3	39.9	40.6	-	2.6	2.3	2.0	2.1	-
3552	Textile machinery	40.5	40.6	40.3	40.3	-	2.5	2.3	1.7	2.1	-
3555	Printing trades machinery	42.6	42.9	42.5	42.5	-	4.0	4.1	3.5	3.7	-
356	General industrial machinery	40.9	40.7	40.4	41.0	-	3.4	3.1	2.7	3.2	-
3561	Pumps and pumping equipment	40.1	39.7	39.6	40.4	-	2.5	2.3	2.4	3.1	-
3562	Ball and roller bearings	42.2	42.0	41.5	42.4	-	5.0	4.0	3.4	4.1	-
3563	Air and gas compressors	42.9	41.3	42.2	42.1	-	5.1	3.6	3.6	3.4	-
3564	Blowers and fans	41.0	41.6	40.2	40.0	-	3.4	3.6	2.5	2.8	-
3566	Speed changers, drives, and gears	41.3	41.4	41.0	42.3	-	3.6	3.5	2.5	4.3	-
3568	Power transmission equipment, nec	39.7	40.1	40.9	41.1	-	2.5	2.2	2.9	3.3	-
357	Office and computing machines	41.2	41.4	40.8	41.1	-	2.5	2.4	2.3	2.3	-
3573	Electronic computing equipment	41.4	41.6	40.9	41.0	-	2.5	2.4	2.5	2.4	-
358	Refrigeration and service machinery	39.1	39.4	39.8	40.4	-	1.5	1.7	2.3	2.6	-
3585	Refrigeration and heating equipment	39.0	39.3	39.8	40.8	-	1.5	1.6	2.3	2.4	-
359	Misc. machinery, except electrical	40.9	40.4	40.7	41.2	-	3.7	3.5	3.4	3.7	-
3592	Carburetors, pistons, rings, valves	39.7	39.5	40.3	41.5	-	1.9	2.1	1.8	2.8	-
3599	Machinery, except electrical, nec	41.0	40.5	40.8	41.1	-	4.0	3.7	3.6	3.9	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	39.3	39.4	39.8	40.1	40.1	1.9	1.9	2.0	2.3	-
361	Electric distributing equipment	39.2	38.7	39.7	40.3	-	2.0	2.1	2.2	2.7	-
3612	Transformers	39.9	39.4	40.5	40.9	-	2.6	2.5	2.3	2.8	-
3613	Switchgear and switchboard apparatus	38.7	38.2	39.2	39.8	-	1.6	1.7	2.1	2.7	-
362	Electrical industrial apparatus	39.9	39.7	40.7	40.8	-	2.1	2.0	2.5	2.7	-
3621	Motors and generators	40.0	40.0	41.0	40.8	-	2.0	2.0	2.6	2.8	-
3622	Industrial controls	39.8	39.5	39.1	39.7	-	2.1	1.9	1.8	1.9	-
363	Household appliances	37.6	38.8	39.6	39.1	-	1.2	1.4	1.7	1.7	-
3632	Household refrigerators and freezers	36.0	39.3	41.2	38.8	-	.9	1.2	1.9	1.5	-
3633	Household laundry equipment	36.7	39.0	39.3	38.8	-	.3	.4	1.1	.7	-
3634	Electric housewares and fans	39.0	39.1	38.9	39.0	-	1.4	1.6	1.1	1.5	-
364	Electric lighting and wiring equipment	39.4	39.0	39.4	40.1	-	1.8	1.6	2.0	2.3	-
3641	Electric lamps	40.3	39.4	39.5	40.3	-	2.0	1.3	1.6	2.0	-
3643	Current-carrying wiring devices	40.2	39.4	40.1	40.8	-	2.2	1.8	2.6	2.9	-
3644	Noncurrent-carrying wiring devices	39.0	39.2	40.5	40.4	-	1.4	1.3	2.7	2.3	-
3645	Residential lighting fixtures	37.1	37.1	37.5	38.3	-	.7	.6	.9	1.3	-
365	Radio and TV receiving equipment	37.7	38.1	38.3	39.3	-	1.1	1.3	1.6	2.0	-
3651	Radio and TV receiving sets	37.7	37.9	38.1	38.9	-	1.2	1.3	1.7	1.9	-
366	Communication equipment	40.1	40.3	40.0	40.5	-	2.0	2.1	1.8	2.1	-
3661	Telephone and telegraph apparatus	40.0	39.9	40.4	40.8	-	1.9	1.8	1.7	2.2	-
3662	Radio and TV communication equipment	40.3	40.6	39.8	40.3	-	2.0	2.3	1.8	2.1	-
367	Electronic components and accessories	39.5	39.4	39.8	40.0	-	2.4	2.2	2.1	2.2	-
3671-3	Electronic tubes	41.7	41.2	41.7	40.8	-	2.3	2.3	2.1	1.7	-
3674	Semiconductors and related devices	39.7	39.4	39.9	40.5	-	2.8	2.5	2.2	2.3	-
3679	Electronic components, nec	39.6	39.6	39.7	39.9	-	2.3	2.3	2.2	2.4	-
369	Misc. electrical equipment and supplies	39.0	39.3	40.1	40.5	-	1.2	1.2	2.2	2.4	-
3691	Storage batteries	37.8	38.1	39.4	40.2	-	.7	.8	1.7	1.9	-
3694	Engine electrical equipment	38.6	39.0	40.1	40.0	-	.9	.7	2.3	2.3	-
37	TRANSPORTATION EQUIPMENT	39.9	40.0	41.0	41.6	41.3	2.6	2.6	3.2	3.7	-
371	Motor vehicles and equipment	38.8	38.8	41.3	42.2	-	1.5	1.6	3.3	4.1	-
3711	Motor vehicles and car bodies	38.7	38.1	41.6	42.8	-	1.6	1.4	3.5	4.6	-
3713	Truck and bus bodies	37.4	39.6	39.8	40.0	-	1.5	2.5	2.3	2.6	-
3714	Motor vehicle parts and accessories	39.1	39.4	41.6	42.3	-	1.5	1.7	3.4	3.9	-
3715	Truck trailers	38.1	37.5	36.8	37.6	-	1.1	1.0	1.1	1.8	-
372	Aircraft and parts	41.8	41.7	41.2	41.5	-	4.0	3.9	3.2	3.5	-
3721	Aircraft	41.3	41.5	41.3	41.5	-	3.2	3.3	2.9	3.1	-
3724	Aircraft engines and engine parts	41.7	41.0	40.1	40.4	-	4.7	4.4	3.1	3.4	-
3728	Aircraft equipment, nec	43.0	42.7	42.3	42.7	-	4.8	4.6	4.1	4.4	-
373	Ship and boat building and repairing	40.4	40.9	40.5	-	-	3.4	3.5	3.5	-	-
3731	Ship building and repairing	40.8	41.1	40.5	-	-	3.6	3.5	3.6	-	-
3732	Boat building and repairing	38.9	39.9	40.5	41.7	-	2.9	3.3	3.1	4.2	-
374	Railroad equipment	38.6	38.9	38.0	38.4	-	2.2	2.3	2.2	2.0	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	\$366.53	\$371.13	\$394.18	\$398.12	-	\$9.05	\$9.03	\$9.83	\$9.83	-
3761	Guided missiles and space vehicles	371.59	374.10	401.00	404.41	-	9.13	9.08	10.05	10.06	-
379	Miscellaneous transportation equipment	283.42	283.04	282.71	295.57	-	7.40	7.39	7.05	7.28	-
3792	Travel trailers and campers	219.56	217.31	253.37	261.19	-	6.15	5.97	6.48	6.68	-
38	INSTRUMENTS AND RELATED PRODUCTS	270.41	275.00	289.28	294.59	\$296.61	6.71	6.79	7.25	7.31	\$7.36
381	Engineering and scientific instruments	290.37	294.11	307.80	314.00	-	6.98	7.07	7.60	7.64	-
382	Measuring and controlling devices	278.26	284.13	285.51	290.16	-	6.82	6.93	7.12	7.20	-
3822	Environmental controls	242.31	246.18	258.23	265.95	-	6.15	6.28	6.69	6.75	-
3823	Process control instruments	291.89	294.25	299.59	305.28	-	6.71	6.78	7.15	7.20	-
3825	Instruments to measure electricity	301.66	310.16	295.14	297.31	-	7.43	7.51	7.36	7.47	-
383	Optical instruments and lenses	293.63	293.15	299.52	305.36	-	7.25	7.15	7.68	7.77	-
384	Medical instruments and supplies	222.87	226.51	245.07	251.77	-	5.70	5.72	6.22	6.31	-
3841	Surgical and medical instruments	216.91	224.11	244.00	251.51	-	5.45	5.52	6.10	6.21	-
3842	Surgical appliances and supplies	228.90	229.31	246.77	251.91	-	5.93	5.91	6.36	6.41	-
385	Ophthalmic goods	209.62	210.94	219.78	223.11	-	5.28	5.30	5.55	5.55	-
386	Photographic equipment and supplies	353.74	359.51	394.79	397.70	-	8.67	8.79	9.70	9.70	-
387	Watches, clocks, and watchcases	196.60	198.12	216.98	224.97	-	5.16	5.20	5.68	5.71	-
39	MISCELLANEOUS MANUFACTURING										
	INDUSTRIES	206.66	208.35	228.13	230.08	231.47	5.41	5.44	5.91	5.93	5.92
391	Jewelry, silverware, and plated ware	216.95	214.88	238.77	239.53	-	5.77	5.73	6.30	6.32	-
3911	Jewelry, precious metal	209.39	204.20	234.21	235.21	-	5.69	5.61	6.33	6.34	-
393	Musical instruments	205.67	202.29	220.79	222.14	-	5.37	5.38	5.72	5.80	-
394	Toys and sporting goods	191.23	193.39	212.85	216.70	-	4.98	5.01	5.50	5.50	-
3942, 4	Dolls, games, toys, and children's vehicles	183.71	183.92	203.30	206.42	-	4.86	4.84	5.35	5.32	-
3949	Sporting and athletic goods, nec	197.49	203.06	221.43	227.77	-	5.09	5.18	5.62	5.68	-
395	Pens, pencils, office and art supplies	219.85	226.55	235.62	239.58	-	5.51	5.58	5.95	6.05	-
396	Costume jewelry and notions	175.59	176.81	193.16	198.66	-	4.67	4.69	5.11	5.12	-
3961	Costume jewelry	162.58	167.10	175.28	179.83	-	4.43	4.48	4.75	4.77	-
399	Miscellaneous manufactures	225.93	228.44	248.45	248.71	-	5.93	5.98	6.42	6.46	-
3993	Signs and advertising displays	246.13	246.35	267.44	265.87	-	6.46	6.50	6.84	6.87	-
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	270.75	270.86	289.64	295.37	293.78	6.82	6.84	7.37	7.44	7.40
201	Meat products	275.92	271.26	288.60	296.86	-	6.95	6.92	7.40	7.44	-
2011	Meat packing plants	354.06	346.93	366.86	370.87	-	8.43	8.38	8.84	8.98	-
2013	Sausages and other prepared meats	320.39	320.00	338.45	348.87	-	7.95	8.00	8.59	8.70	-
2016	Poultry dressing plants	163.02	161.98	168.86	184.61	-	4.43	4.45	4.73	4.82	-
202	Dairy products	281.31	283.50	299.15	302.74	-	6.73	6.75	7.35	7.42	-
2022	Cheese, natural and processed	256.56	261.06	273.61	276.19	-	6.43	6.43	7.07	7.10	-
2026	Fluid milk	297.35	302.60	314.99	317.48	-	6.98	7.07	7.59	7.65	-
203	Preserved fruits and vegetables	222.30	218.42	246.65	247.00	-	5.85	5.84	6.44	6.50	-
2032	Canned specialties	224.46	243.62	269.80	279.82	-	6.45	6.62	7.10	7.12	-
2033	Canned fruits and vegetables	231.11	221.43	263.06	262.87	-	6.05	6.05	6.78	6.81	-
2037	Frozen fruits and vegetables	216.61	201.70	223.28	221.40	-	5.47	5.35	5.97	6.00	-
204	Grain mill products	317.10	329.38	336.54	339.86	-	7.55	7.66	8.09	8.15	-
2041	Flour and other grain mill products	334.02	342.14	357.86	360.90	-	7.54	7.62	8.06	8.02	-
2048	Prepared feeds, nec	256.81	263.09	276.12	273.73	-	6.10	6.09	6.59	6.58	-
205	Bakery products	278.78	280.08	294.53	298.38	-	7.13	7.20	7.65	7.73	-
2051	Bread, cake, and related products	279.41	281.44	292.61	299.11	-	7.22	7.31	7.68	7.83	-
2052	Cookies and crackers	277.26	274.80	297.47	297.31	-	6.88	6.87	7.55	7.47	-
206	Sugar and confectionery products	257.67	260.56	287.83	293.53	-	6.59	6.63	7.25	7.32	-
2061.3	Cane and beet sugar	334.97	330.06	356.90	359.13	-	8.17	8.19	8.60	8.47	-
2065	Confectionery products	216.41	222.90	251.42	254.53	-	5.68	5.73	6.48	6.56	-
207	Fats and oils	296.34	301.59	325.29	333.25	-	6.94	7.03	7.69	7.75	-
208	Beverages	329.16	338.94	350.61	359.38	-	7.97	8.07	8.70	8.83	-
2082	Malt beverages	472.42	479.83	497.25	508.13	-	10.64	10.93	11.70	11.90	-
2086	Bottled and canned soft drinks	245.83	253.34	256.89	267.33	-	6.10	6.09	6.52	6.65	-
209	Misc. foods and kindred products	221.71	221.49	241.39	248.03	-	5.96	5.97	6.42	6.51	-
21	TOBACCO MANUFACTURES	297.22	307.58	331.08	349.33	349.60	7.68	8.01	8.90	9.05	9.50
211	Cigarettes	340.86	354.63	387.07	407.93	-	8.74	9.14	10.24	10.38	-
22	TEXTILE MILL PRODUCTS	195.42	195.62	211.18	218.16	218.97	4.91	4.94	5.36	5.40	5.42
221	Weaving mills, cotton	206.64	202.81	219.20	225.36	-	5.04	5.02	5.48	5.51	-
222	Weaving mills, synthetics	207.77	207.55	231.80	234.06	-	5.08	5.15	5.64	5.64	-
223	Weaving and finishing mills, wool	204.80	209.84	229.19	231.69	-	5.12	5.22	5.59	5.61	-
224	Narrow fabric mills	180.12	180.18	197.87	199.67	-	4.56	4.55	4.91	4.93	-
225	Knitting mills	179.24	181.63	187.62	195.20	-	4.68	4.73	5.03	5.07	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	40.5	41.1	40.1	40.5	-	3.2	3.3	2.9	2.9	-
3761	Guided missiles and space vehicles	40.7	41.2	39.9	40.2	-	2.9	2.9	2.6	2.7	-
379	Miscellaneous transportation equipment	38.3	38.3	40.1	40.6	-	1.2	1.2	2.2	2.8	-
3792	Travel trailers and campers	35.7	36.4	39.1	39.1	-	.8	.5	1.9	2.1	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	40.3	40.5	39.9	40.3	40.3	2.2	2.1	1.9	2.2	-
381	Measuring and controlling devices	41.6	41.6	40.5	41.1	-	2.9	2.7	2.3	2.9	-
382	Environmental controls	40.8	41.0	40.1	40.3	-	2.1	2.1	1.6	1.9	-
3822	Process control instruments	39.4	39.2	38.6	39.4	-	1.1	1.1	1.4	1.7	-
3823	Instruments to measure electricity	43.5	43.4	41.9	42.4	-	3.9	3.6	2.4	2.8	-
3825	Optical instruments and lenses	40.6	41.3	40.1	39.8	-	1.5	1.7	1.3	1.6	-
383	Medical instruments and supplies	40.5	41.0	39.0	39.3	-	3.3	3.3	2.2	2.6	-
384	Surgical and medical instruments	39.1	39.6	39.4	39.9	-	1.7	1.8	1.6	2.1	-
3841	Surgical appliances and supplies	39.8	40.6	40.0	40.5	-	1.8	1.8	1.7	2.4	-
3842	Ophthalmic goods	38.6	38.8	38.8	39.3	-	1.9	2.1	1.7	1.9	-
385	Photographic equipment and supplies	39.7	39.8	39.6	40.2	-	1.8	1.8	1.5	1.5	-
386	Watches, clocks, and watchcases	40.8	40.9	40.7	41.0	-	2.8	2.5	3.1	2.8	-
387		38.1	38.1	38.2	39.4	-	1.3	.9	.8	1.5	-
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	38.2	38.3	38.6	38.8	39.1	1.5	1.5	1.6	1.9	-
391	Jewelry, precious metal	37.6	37.5	37.9	37.9	-	1.5	1.4	1.8	1.7	-
3911	Musical instruments	36.8	36.4	37.0	37.1	-	1.6	1.4	1.9	1.8	-
393	Toys and sporting goods	38.3	37.6	38.6	38.3	-	1.1	.7	.9	1.0	-
394	Dolls, games, toys, and children's vehicles	38.4	38.6	38.7	39.4	-	1.2	1.3	1.6	2.1	-
3942, 4	Sporting and athletic goods, nec	37.8	38.0	38.0	38.8	-	1.2	1.2	1.5	1.7	-
3949	Pens, pencils, office and art supplies	38.8	39.2	39.4	40.1	-	1.2	1.4	1.8	2.4	-
395	Costume jewelry and notions	39.9	40.6	39.6	39.6	-	1.9	2.3	1.7	1.8	-
396	Costume jewelry	37.6	37.7	37.8	38.8	-	1.8	1.7	1.6	2.1	-
3961	Miscellaneous manufactures	36.7	37.3	36.9	37.7	-	1.4	1.3	1.1	1.7	-
399	Signs and advertising displays	38.1	38.2	38.7	38.5	-	1.6	1.5	1.7	2.0	-
3993		38.1	37.9	39.1	38.7	-	1.9	1.9	2.4	2.4	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	39.7	39.6	39.3	39.7	39.7	3.6	3.6	3.3	3.6	-
201	Meat packing plants	39.7	39.2	39.0	39.9	-	4.0	3.6	3.2	3.8	-
2011	Sausages and other prepared meats	42.0	41.4	41.5	41.3	-	5.3	4.7	4.2	4.4	-
2013	Poultry dressing plants	40.3	40.0	39.4	40.1	-	3.6	3.2	3.2	3.7	-
2016	Dairy products	36.8	36.4	35.7	38.3	-	2.7	2.5	1.9	3.2	-
202	Cheese, natural and processed	41.8	42.0	40.7	40.8	-	4.3	4.3	3.8	3.8	-
2022	Fluid milk	39.9	40.6	38.7	38.9	-	3.4	3.8	3.5	3.0	-
2026	Preserved fruits and vegetables	42.6	42.8	41.5	41.5	-	4.5	4.5	4.0	4.2	-
203	Canned specialties	38.0	37.4	38.3	38.0	-	2.5	2.8	2.6	2.7	-
2032	Frozen fruits and vegetables	34.8	36.8	38.0	39.3	-	3.5	3.8	3.3	4.0	-
2033	Grain mill products	38.2	36.6	38.8	38.6	-	2.5	2.7	2.5	2.5	-
2037	Flour and other grain mill products	39.6	37.7	37.4	36.9	-	2.9	3.0	2.3	2.9	-
204	Prepared feeds, nec	42.0	43.0	41.6	41.7	-	4.8	5.5	4.8	4.9	-
2041	Bakery products	44.3	44.9	44.4	45.0	-	5.2	5.7	5.3	5.4	-
2048	Bread, cake, and related products	42.1	43.2	41.9	41.6	-	5.3	6.2	5.0	5.3	-
205	Cookies and crackers	39.1	38.9	38.5	38.6	-	3.2	3.4	3.1	3.1	-
2051	Sugar and confectionery products	38.7	38.5	38.1	38.2	-	3.6	3.8	3.3	3.4	-
2052	Cane and beet sugar	40.3	40.0	39.4	39.8	-	2.1	2.2	2.5	2.5	-
206	Confectionery products	39.1	39.3	39.7	40.1	-	1.9	1.9	2.6	2.6	-
2061-3	Fats and oils	41.0	40.3	41.5	42.4	-	1.5	1.4	3.5	3.3	-
2065	Beverages	38.1	38.9	38.8	38.8	-	1.9	2.0	2.3	2.2	-
207	Malt beverages	42.7	42.9	42.3	43.0	-	4.8	5.1	4.3	4.6	-
208	Bottled and canned soft drinks	41.3	42.0	40.3	40.7	-	4.1	4.4	4.0	4.3	-
2082	Misc. foods and kindred products	44.4	43.9	42.5	42.7	-	6.1	5.8	6.2	6.5	-
2086		40.3	41.6	39.4	40.2	-	3.9	4.5	3.5	3.8	-
209		37.2	37.1	37.6	38.1	-	3.2	3.1	3.0	3.8	-
TOBACCO MANUFACTURES											
21	Cigarettes	38.7	38.4	37.2	38.6	36.8	1.7	.8	1.1	2.3	-
211		39.0	38.8	37.8	39.3	-	1.8	.8	1.2	2.7	-
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	39.8	39.6	39.4	40.4	40.4	3.0	2.8	2.7	3.4	-
221	Weaving mills, synthetics	41.0	40.4	40.0	40.9	-	3.7	3.2	2.8	3.7	-
222	Weaving and finishing mills, wool	40.9	40.3	41.1	41.5	-	3.1	3.1	3.5	3.9	-
223	Narrow fabric mills	40.0	40.2	41.0	41.3	-	2.9	2.7	3.6	3.8	-
224	Knitting mills	39.5	39.6	40.3	40.5	-	2.2	2.0	2.2	2.5	-
225		38.3	38.4	37.3	38.5	-	2.4	2.4	1.7	2.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	\$ 160.15	\$ 157.91	\$ 172.79	\$ 176.97	-	\$ 4.34	\$ 4.35	\$ 4.76	\$ 4.77	-
2252	Hosiery, nec	156.20	164.05	177.34	184.03	-	4.40	4.41	4.78	4.78	-
2253	Knit outerwear mills	179.33	182.28	180.80	188.74	-	4.67	4.71	4.94	4.98	-
2254	Knit underwear mills	169.72	167.35	171.15	179.95	-	4.55	4.56	4.89	4.89	-
2257	Circular knit fabric mills	207.26	216.89	212.14	223.00	-	5.08	5.29	5.51	5.66	-
226	Textile finishing, except wool	211.41	214.20	230.61	238.83	-	5.22	5.25	5.68	5.70	-
2261	Finishing plants, cotton	217.18	219.60	230.04	238.14	-	5.31	5.33	5.78	5.78	-
2262	Finishing plants, synthetics	214.94	222.22	243.95	250.38	-	5.36	5.42	5.85	5.85	-
227	Floor covering mills	195.05	197.61	213.62	230.52	-	5.04	5.08	5.52	5.65	-
228	Yarn and thread mills	184.12	182.03	196.89	205.44	-	4.58	4.62	5.01	5.06	-
2281	Yarn mills, except wool	186.86	185.20	196.39	205.03	-	4.58	4.63	5.01	5.05	-
2282	Throwing and winding mills	166.70	167.77	189.24	195.94	-	4.41	4.45	4.84	4.85	-
229	Miscellaneous textile goods	211.74	216.68	246.33	248.40	-	5.32	5.39	5.95	6.00	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	157.09	160.56	174.59	179.78	\$ 181.14	4.45	4.51	4.96	4.98	\$ 4.99
231	Men's and boys' suits and coats	192.72	191.05	199.80	207.32	-	5.28	5.22	5.66	5.68	-
232	Men's and boys' furnishings	152.15	154.14	162.69	166.99	-	4.18	4.20	4.57	4.55	-
2321	Men's and boys' shirts and nightwear	147.38	149.41	157.44	161.70	-	4.06	4.06	4.46	4.43	-
2327	Men's and boys' separate trousers	151.51	153.65	162.29	170.35	-	4.28	4.28	4.65	4.68	-
2328	Men's and boys' work clothing	154.19	153.30	162.71	167.45	-	4.09	4.11	4.47	4.43	-
233	Women's and misses' outerwear	148.95	154.77	164.66	168.45	-	4.50	4.62	4.93	4.94	-
2331	Women's and misses' blouses and waists	143.98	147.83	154.51	158.10	-	4.21	4.31	4.64	4.65	-
2335	Women's and misses' dresses	141.67	149.46	162.83	164.33	-	4.57	4.70	5.01	5.01	-
2337	Women's and misses' suits and coats	165.92	173.06	177.99	191.25	-	4.88	5.09	5.41	5.48	-
2339	Women's and misses' outerwear, nec	150.23	154.16	165.12	167.08	-	4.38	4.43	4.80	4.76	-
234	Women's and children's undergarments	147.60	148.37	160.20	162.62	-	4.10	4.11	4.50	4.48	-
2341	Women's and children's underwear	147.02	149.41	158.87	160.89	-	4.05	4.06	4.45	4.42	-
2342	Brassieres and allied garments	149.04	144.32	164.97	170.53	-	4.32	4.36	4.70	4.75	-
236	Children's outerwear	148.27	150.38	156.35	163.26	-	4.13	4.12	4.48	4.51	-
2361	Children's dresses and blouses	144.38	147.33	154.35	160.11	-	4.09	4.07	4.50	4.51	-
238	Misc. apparel and accessories	158.24	161.37	173.76	178.36	-	4.42	4.47	4.80	4.86	-
239	Misc. fabricated textile products	176.60	182.90	223.10	231.07	-	4.76	4.93	5.81	5.94	-
2391	Curtains and draperies	142.44	146.97	159.78	165.00	-	3.99	4.06	4.33	4.40	-
2392	House furnishing, nec	164.05	165.17	183.84	183.84	-	4.41	4.44	4.80	4.80	-
2396	Automotive and apparel trimmings	261.93	293.96	392.92	406.96	-	7.06	7.86	9.56	9.83	-
26	PAPER AND ALLIED PRODUCTS	318.24	324.43	354.05	359.12	363.80	7.65	7.78	8.37	8.43	8.54
261, 2.6	Paper and pulp mills	389.40	396.90	434.11	440.63	-	8.85	9.00	9.69	9.77	-
262	Paper mills, except building paper	388.50	396.94	437.20	441.81	-	8.75	8.90	9.63	9.71	-
263	Paperboard mills	386.01	402.81	441.44	437.74	-	9.04	9.26	10.01	10.04	-
264	Misc. converted paper products	271.48	275.49	298.22	302.47	-	6.77	6.87	7.40	7.45	-
2641	Paper coating and glazing	312.83	315.74	346.10	356.17	-	7.52	7.59	8.28	8.42	-
2642	Envelopes	244.11	245.46	273.60	278.47	-	6.18	6.23	6.84	6.91	-
2643	Bags, except textile bags	258.24	261.70	280.40	286.12	-	6.44	6.51	7.01	7.03	-
265	Paperboard containers and boxes	275.93	278.88	307.10	311.74	-	6.83	6.92	7.40	7.44	-
2651	Folding paperboard boxes	287.45	288.97	312.08	317.10	-	6.96	7.10	7.52	7.55	-
2653	Corrugated and solid fiber boxes	284.52	287.43	320.67	326.70	-	7.06	7.15	7.69	7.76	-
2654	Sanitary food containers	269.94	273.65	294.13	304.31	-	6.60	6.61	6.97	7.11	-
27	PRINTING AND PUBLISHING	274.54	273.78	297.48	301.32	300.88	7.44	7.46	8.04	8.10	8.11
271	Newspapers	258.29	257.47	274.21	274.88	-	7.71	7.64	8.21	8.23	-
272	Periodicals	248.83	259.15	285.67	289.48	-	6.97	7.10	7.70	7.74	-
273	Books	253.33	245.97	275.33	287.43	-	6.58	6.63	7.17	7.37	-
2731	Book publishing	240.67	238.82	268.28	277.87	-	6.35	6.42	7.06	7.18	-
2732	Book printing	267.74	253.13	282.85	298.29	-	6.83	6.86	7.29	7.59	-
274	Miscellaneous publishing	234.78	239.15	243.20	242.21	-	6.38	6.57	6.87	6.98	-
275	Commercial printing	292.57	292.55	321.02	323.40	-	7.74	7.76	8.36	8.40	-
2751	Commercial printing, letterpress	273.77	274.13	299.82	305.25	-	7.32	7.31	7.89	7.97	-
2752	Commercial printing, lithographic	300.23	298.62	330.33	334.37	-	7.88	7.90	8.58	8.64	-
276	Manifold business forms	297.27	293.93	316.41	324.81	-	7.34	7.33	7.97	8.10	-
278	Blankbooks and bookbinding	222.71	220.23	237.88	242.94	-	5.74	5.75	6.26	6.31	-
279	Printing trade services	352.31	351.93	373.60	378.86	-	9.37	9.41	10.07	10.13	-
28	CHEMICALS AND ALLIED PRODUCTS	337.83	339.90	371.90	371.43	377.39	8.18	8.25	8.94	8.95	9.05
281	Industrial inorganic chemicals	363.38	370.46	409.12	416.17	-	8.82	8.97	9.93	9.98	-
2819	Industrial inorganic chemicals, nec	367.09	368.92	408.36	415.24	-	8.91	9.02	9.96	10.03	-
282	Plastics materials and synthetics	334.15	330.08	378.59	372.49	-	8.17	8.15	8.95	8.89	-
2821	Plastics materials and resins	373.57	362.44	422.92	420.34	-	8.98	8.84	9.70	9.73	-
2824	Organic fibers, noncellulosic	309.46	306.46	347.75	342.76	-	7.66	7.70	8.42	8.36	-
283	Drugs	312.48	316.77	330.89	331.29	-	7.64	7.67	8.11	8.18	-
2834	Pharmaceutical preparations	294.67	300.03	313.56	315.20	-	7.33	7.39	7.80	7.88	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
		TEXTILE MILL PRODUCTS—Continued									
2251	Women's hosiery, except socks	36.9	36.3	36.3	37.1	-	1.7	1.7	1.4	2.1	-
2252	Hosiery, nec	35.5	37.2	37.1	38.5	-	1.3	1.8	1.6	2.3	-
2253	Knit outerwear mills	38.4	38.7	36.6	37.9	-	2.3	2.3	1.6	2.3	-
2254	Knit underwear mills	37.3	36.7	35.0	36.8	-	1.6	1.4	.6	1.3	-
2257	Circular knit fabric mills	40.8	41.0	38.5	39.4	-	4.2	4.0	2.0	2.8	-
226	Textile finishing, except wool	40.5	40.8	40.6	41.9	-	3.3	3.3	3.3	4.0	-
2261	Finishing plants, cotton	40.9	41.2	39.8	41.2	-	3.4	3.1	3.2	3.8	-
2262	Finishing plants, synthetics	40.1	41.0	41.7	42.8	-	3.1	3.8	3.5	4.4	-
227	Floor covering mills	38.7	38.9	38.7	40.8	-	2.5	2.6	2.8	4.1	-
228	Yarn and thread mills	40.2	39.4	39.3	40.6	-	3.4	3.0	2.6	3.6	-
2281	Yarn mills, except wool	40.8	40.0	39.2	40.6	-	3.7	3.1	2.6	3.6	-
2282	Throwing and winding mills	37.8	37.7	39.1	40.4	-	3.1	3.2	2.8	3.6	-
229	Miscellaneous textile goods	39.8	40.2	41.4	41.4	-	2.4	2.4	3.4	3.7	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.3	35.6	35.2	36.1	36.3	.9	1.0	.8	1.1	-
231	Men's and boys' suits and coats	36.5	36.6	35.3	36.5	-	.9	.8	.3	.7	-
232	Men's and boys' furnishings	36.4	36.7	35.6	36.7	-	1.0	1.2	.6	.9	-
2321	Men's and boys' shirts and highwear	36.3	36.8	35.3	36.5	-	.9	1.3	.7	1.0	-
2327	Men's and boys' separate trousers	35.4	35.9	34.9	36.4	-	.9	.8	.6	1.1	-
2328	Men's and boys' work clothing	37.7	37.3	36.4	37.8	-	1.4	1.5	.5	.9	-
233	Women's and misses' outerwear	33.1	33.5	33.4	34.1	-	.7	.8	.8	1.0	-
2331	Women's and misses' blouses and waists	34.2	34.3	33.3	34.0	-	.8	.8	.7	.9	-
2335	Women's and misses' dresses	31.0	31.8	32.5	32.8	-	.7	.8	.8	.9	-
2337	Women's and misses' suits and coats	34.0	34.0	32.9	34.9	-	.7	.8	.4	.8	-
2339	Women's and misses' outerwear, nec	34.3	34.8	34.4	35.1	-	.7	.9	.9	1.1	-
234	Women's and children's undergarments	36.0	36.1	35.6	36.3	-	.9	1.1	.9	1.1	-
2341	Women's and children's underwear	36.3	36.8	35.7	36.4	-	.9	1.2	.9	1.1	-
2342	Brassieres and allied garments	34.5	33.1	35.1	35.9	-	.7	.6	1.0	1.2	-
236	Children's outerwear	35.9	36.5	34.9	36.2	-	1.0	1.1	.5	1.0	-
2361	Children's dresses and blouses	35.3	36.2	34.3	35.5	-	.9	.9	.4	.6	-
238	Misc. apparel and accessories	35.8	36.1	36.2	36.7	-	1.0	1.0	.8	1.3	-
239	Misc. fabricated textile products	37.1	37.1	38.4	38.9	-	1.1	1.3	1.6	2.0	-
2391	Curtains and draperies	35.7	36.2	36.9	37.5	-	.6	1.1	.7	1.3	-
2392	House furnishings, nec	37.2	37.2	38.3	38.3	-	1.4	1.5	1.5	1.8	-
2396	Automotive and apparel trimmings	37.1	37.4	41.1	41.4	-	.8	.9	2.3	2.9	-
26	PAPER AND ALLIED PRODUCTS	41.6	41.7	42.3	42.6	42.6	3.7	3.7	4.3	4.5	-
261, 2, 6	Paper and pulp mills	44.0	44.1	44.8	45.1	-	6.0	5.9	6.4	6.4	-
262	Paper mills, except building paper	44.4	44.6	45.4	45.5	-	6.1	6.0	6.6	6.6	-
263	Paperboard mills	42.7	43.5	44.1	43.6	-	6.3	6.8	7.4	7.4	-
264	Misc. converted paper products	40.1	40.1	40.3	40.6	-	2.5	2.6	2.4	2.7	-
2641	Paper coating and glazing	41.6	41.6	41.8	42.3	-	3.0	2.9	2.7	3.1	-
2642	Envelopes	39.5	39.4	40.0	40.3	-	2.1	2.2	1.5	1.8	-
2643	Bags, except textile bags	40.1	40.2	40.0	40.7	-	2.3	2.4	2.4	2.7	-
265	Paperboard containers and boxes	40.4	40.3	41.5	41.9	-	2.0	1.9	3.2	3.4	-
2651	Folding paperboard boxes	41.3	40.7	41.5	42.0	-	3.4	3.1	3.7	3.9	-
2653	Corrugated and solid fiber boxes	40.3	40.2	41.7	42.1	-	1.2	1.1	3.2	3.5	-
2654	Sanitary food containers	40.9	41.4	42.2	42.8	-	2.6	2.6	3.3	3.5	-
27	PRINTING AND PUBLISHING	36.9	36.7	37.0	37.2	37.1	2.3	2.1	2.2	2.3	-
271	Newspapers	33.5	33.7	33.4	33.4	-	1.7	1.6	1.4	1.4	-
272	Periodicals	35.7	36.5	37.1	37.4	-	1.9	2.4	2.2	2.0	-
273	Books	38.5	37.1	38.4	39.0	-	2.4	1.7	2.3	2.7	-
2731	Book publishing	37.9	37.2	38.0	38.7	-	1.4	.7	2.0	2.4	-
2732	Book printing	39.2	36.9	38.8	39.3	-	3.6	2.7	2.6	3.1	-
274	Miscellaneous publishing	36.8	36.4	35.4	34.7	-	2.0	1.5	1.6	1.3	-
275	Commercial printing	37.8	37.7	38.4	38.5	-	2.5	2.4	2.7	2.8	-
2751	Commercial printing, letterpress	37.4	37.5	38.0	38.3	-	2.0	2.0	2.2	2.3	-
2752	Commercial printing, lithographic	38.1	37.8	38.5	38.7	-	2.8	2.5	2.9	3.1	-
276	Manifold business forms	40.5	40.1	39.7	40.1	-	2.8	2.3	2.2	2.7	-
278	Blankbooks and bookbinding	38.8	38.3	38.0	38.5	-	1.9	1.7	1.3	1.6	-
279	Printing trade service	37.6	37.4	37.1	37.4	-	2.9	3.1	3.0	3.5	-
28	CHEMICALS AND ALLIED PRODUCTS	41.3	41.2	41.6	41.5	41.7	2.9	2.8	3.2	3.2	-
281	Industrial inorganic chemicals	41.2	41.3	41.2	41.7	-	2.9	2.9	3.1	3.2	-
2819	Industrial inorganic chemicals, nec	41.2	40.9	41.0	41.4	-	2.9	2.7	2.7	2.9	-
282	Plastics materials and synthetics	40.9	40.5	42.3	41.9	-	2.3	2.2	3.2	3.4	-
2821	Plastics materials and resins	41.6	41.0	43.6	43.2	-	3.3	2.7	4.6	4.5	-
2824	Organic fibers, noncellulosic	40.4	39.8	41.3	41.0	-	1.4	1.5	2.1	2.5	-
283	Drugs	40.9	41.3	40.8	40.5	-	2.9	3.0	2.7	2.8	-
2834	Pharmaceutical preparations	40.2	40.6	40.2	40.0	-	2.9	3.1	2.6	2.8	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$306.99	\$307.04	\$326.01	\$334.53	-	\$7.58	\$7.60	\$8.13	\$8.26	-
2841	Soap and other detergents	415.52	425.27	441.83	446.69	-	9.80	9.89	10.57	10.56	-
2844	Toilet preparations	240.60	233.84	250.77	261.62	-	6.00	5.95	6.43	6.64	-
2842, 3	Polishing, sanitation, and finishing preparations	273.61	276.90	314.42	325.22	-	7.07	7.10	7.90	8.05	-
285	Paints and allied products	289.81	292.33	326.40	333.63	-	7.30	7.29	8.00	8.02	-
286	Industrial organic chemicals	412.04	407.77	451.54	444.57	-	9.56	9.64	10.55	10.51	-
2865	Cyclic crudes and intermediates	353.05	363.44	409.45	410.41	-	8.59	8.80	9.89	10.01	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	430.88	423.16	465.91	455.61	-	9.86	9.91	10.76	10.67	-
287	Agricultural chemicals	338.91	351.48	375.29	364.23	-	7.72	8.08	8.51	8.53	-
289	Miscellaneous chemical products	311.30	314.24	342.77	341.96	-	7.63	7.74	8.34	8.30	-
	PETROLEUM AND COAL PRODUCTS	424.95	431.88	500.46	492.68	\$494.79	10.07	10.21	11.40	11.30	\$11.48
291	Petroleum refining	461.78	465.04	544.45	533.48	-	10.84	11.02	12.29	12.18	-
295	Paving and roofing materials	312.30	329.18	356.07	369.67	-	7.58	7.62	8.30	8.44	-
	RUBBER AND MISC. PLASTICS PRODUCTS	249.35	254.27	288.86	294.98	298.48	6.41	6.47	7.15	7.23	7.28
301	Tires and inner tubes	353.77	367.65	445.95	463.68	-	9.51	9.50	10.72	11.04	-
302	Rubber and plastics footwear	181.25	182.21	169.40	171.47	-	4.41	4.38	4.84	4.83	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	261.90	284.69	322.76	326.63	-	6.75	6.86	7.74	7.74	-
306	Fabricated rubber products, nec	234.47	238.07	264.80	271.47	-	6.09	6.12	6.62	6.67	-
307	Miscellaneous plastics products	230.69	232.66	261.79	265.77	-	5.87	5.92	6.48	6.53	-
	LEATHER AND LEATHER PRODUCTS	167.98	170.17	178.96	184.64	185.63	4.54	4.55	4.93	4.95	4.95
311	Leather tanning and finishing	240.40	245.43	261.30	264.55	-	6.01	6.06	6.50	6.50	-
314	Footwear, except rubber	162.06	164.63	171.12	178.08	-	4.38	4.39	4.78	4.80	-
3143	Men's footwear, except athletic	170.94	175.18	186.74	195.05	-	4.62	4.61	5.02	5.04	-
3144	Women's footwear, except athletic	156.09	157.62	156.83	165.43	-	4.23	4.26	4.64	4.66	-
316	Luggage	179.19	181.54	187.25	185.86	-	4.95	4.88	4.98	4.84	-
317	Handbags and personal leather goods	157.01	155.79	160.06	165.20	-	4.29	4.28	4.56	4.68	-
	TRANSPORTATION AND PUBLIC UTILITIES	342.30	345.23	374.92	375.71	378.02	8.71	8.74	9.54	9.56	9.57
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	409.88	413.17	454.94	-	-	9.51	9.52	10.58	-	-
	LOCAL AND INTERURBAN PASSENGER TRANSIT	212.38	218.49	223.10	228.64	-	6.21	6.37	6.64	6.57	-
411	Local and suburban transportation	272.05	274.31	284.59	284.59	-	6.94	6.98	7.26	7.26	-
413	Intercity highway transportation	337.46	353.78	374.49	381.06	-	9.40	9.80	10.95	10.44	-
	TRUCKING AND WAREHOUSING	354.77	358.02	384.90	394.35	-	9.12	9.11	9.92	10.06	-
421, 3	Trucking and trucking terminals	362.16	366.03	392.66	402.19	-	9.31	9.29	10.12	10.26	-
422	Public warehousing	246.65	249.45	262.89	268.35	-	6.44	6.53	6.90	6.97	-
46	PIPE LINES, EXCEPT NATURAL GAS	435.42	431.32	491.21	486.97	-	10.62	10.52	11.45	11.65	-
	COMMUNICATION	325.84	330.30	360.87	360.76	-	8.27	8.32	9.09	9.11	-
481	Telephone communication	335.02	338.75	372.80	372.13	-	8.46	8.49	9.32	9.35	-
4817	Switchboard operating employees ³	225.08	224.53	269.57	260.18	-	6.99	6.93	7.68	7.63	-
4818	Line construction employees ⁴	428.43	439.49	466.12	466.98	-	10.01	10.08	10.84	10.86	-
483	Radio and television broadcasting	275.91	280.80	303.96	302.82	-	7.28	7.37	8.02	7.99	-
	ELECTRIC, GAS, AND SANITARY SERVICES	365.29	366.96	404.35	409.78	-	8.76	8.80	9.72	9.78	-
491	Electric services	384.81	383.35	413.56	426.13	-	8.97	9.02	9.80	9.91	-
492	Gas production and distribution	330.46	334.14	368.51	366.93	-	8.20	8.23	9.01	9.06	-
493	Combination utility services	386.63	388.40	451.52	448.11	-	9.43	9.45	10.88	10.85	-
495	Sanitary services	285.52	289.54	314.52	317.54	-	6.93	6.96	7.69	7.67	-
	WHOLESALE AND RETAIL TRADE	173.44	175.71	188.43	188.48	190.25	5.42	5.44	5.87	5.89	5.89
50, 51	WHOLESALE TRADE	264.88	265.11	287.60	288.75	289.14	6.88	6.94	7.47	7.50	7.51
50	WHOLESALE TRADE-DURABLE GOODS	265.78	268.80	289.84	291.36	-	6.85	6.91	7.47	7.49	-
501	Motor vehicles and automotive equipment	242.44	245.25	265.57	267.03	-	6.33	6.37	6.88	6.90	-
502	Furniture and home furnishings	228.78	237.75	255.35	255.25	-	6.15	6.34	6.92	6.88	-
503	Lumber and construction materials	266.19	270.59	296.03	296.38	-	6.95	7.01	7.61	7.58	-
504	Sporting goods, toys, and hobby goods	259.50	267.41	292.39	293.92	-	6.92	7.15	7.86	7.98	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	40.5	40.4	40.1	40.5	-	2.4	2.5	2.2	2.5	-
2841	Soap and other detergents	42.4	43.0	41.8	42.3	-	3.9	4.3	3.3	3.3	-
2844	Toilet preparations	40.1	39.3	39.0	39.4	-	2.0	1.8	1.6	2.0	-
2842, 3	Polishing, sanitation, and finishing preparations	38.7	39.0	39.8	40.4	-	1.3	1.4	2.0	2.3	-
285	Paints and allied products	39.7	40.1	40.8	41.6	-	1.7	2.0	2.8	3.6	-
286	Industrial organic chemicals	43.1	42.3	42.8	42.3	-	3.3	2.9	3.8	3.7	-
2885	Cyclic crudes and intermediates	41.1	41.3	41.4	41.0	-	2.5	2.5	3.8	3.5	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	43.7	42.7	43.3	42.7	-	3.6	3.1	3.8	3.7	-
287	Agricultural chemicals	43.9	43.5	44.1	42.7	-	5.2	5.0	5.3	4.6	-
289	Miscellaneous chemical products	40.8	40.6	41.1	41.2	-	2.8	2.5	2.9	2.9	-
29	PETROLEUM AND COAL PRODUCTS	42.2	42.3	43.9	43.6	43.1	3.6	3.0	3.9	4.3	-
291	Petroleum refining	42.6	42.2	44.3	43.8	-	3.6	2.6	3.8	4.2	-
295	Paving and roofing materials	41.2	43.2	42.9	43.8	-	4.2	5.3	5.3	5.7	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	38.9	39.3	40.4	40.8	41.0	2.0	2.1	2.8	3.2	-
301	Tires and inner tubes	37.2	38.7	41.6	42.0	-	.8	1.1	2.9	2.9	-
302	Rubber and plastics footwear	41.1	41.6	35.0	35.5	-	2.9	2.8	1.5	2.0	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	38.8	41.5	41.7	42.2	-	1.3	1.5	2.7	3.1	-
306	Fabricated rubber products, nec	38.5	38.9	40.0	40.7	-	1.7	2.0	2.5	3.0	-
307	Miscellaneous plastics products	39.3	39.3	40.4	40.7	-	2.4	2.4	3.0	3.4	-
31	LEATHER AND LEATHER PRODUCTS	37.0	37.4	36.3	37.3	37.5	1.6	1.6	1.0	1.5	-
311	Leather tanning and finishing	40.0	40.5	40.2	40.7	-	2.9	3.0	3.3	3.6	-
314	Footwear, except rubber	37.0	37.5	35.8	37.1	-	1.4	1.5	.7	1.2	-
3143	Men's footwear, except athletic	37.0	38.0	37.2	38.7	-	1.2	1.2	.8	1.2	-
3144	Women's footwear, except athletic	36.9	37.0	33.8	35.5	-	1.7	1.8	.7	1.3	-
316	Luggage	36.2	37.2	37.6	38.4	-	2.1	2.4	1.0	1.5	-
317	Handbags and personal leather goods	36.6	36.4	35.1	35.3	-	1.4	1.4	1.1	1.3	-
-	TRANSPORTATION AND PUBLIC UTILITIES	39.3	39.5	39.3	39.3	39.5	-	-	-	-	-
	RAILROAD TRANSPORTATION:										
4011	Class 1 railroads ²	43.1	43.4	43.0	-	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	34.2	34.3	33.6	34.8	-	-	-	-	-	-
411	Local and suburban transportation	39.2	39.3	39.2	39.2	-	-	-	-	-	-
413	Intercity highway transportation	35.9	36.1	34.2	36.5	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	38.9	39.3	38.8	39.2	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	38.9	39.4	38.8	39.2	-	-	-	-	-	-
422	Public warehousing	38.3	38.2	38.1	38.5	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	41.0	41.0	42.9	41.8	-	-	-	-	-	-
48	COMMUNICATION	39.4	39.7	39.7	39.6	-	-	-	-	-	-
481	Telephone communication	39.6	39.9	40.0	39.8	-	-	-	-	-	-
4817	Switchboard operating employees ³	32.2	32.4	35.1	34.1	-	-	-	-	-	-
4818	Line construction employees ⁴	42.8	43.6	43.0	43.0	-	-	-	-	-	-
483	Radio and television broadcasting	37.9	38.1	37.9	37.9	-	-	-	-	-	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.7	41.7	41.6	41.9	-	-	-	-	-	-
491	Electric services	42.9	42.5	42.2	43.0	-	-	-	-	-	-
492	Gas production and distribution	40.3	40.6	40.9	40.5	-	-	-	-	-	-
493	Combination utility services	41.0	41.1	41.5	41.3	-	-	-	-	-	-
495	Sanitary services	41.2	41.6	40.9	41.4	-	-	-	-	-	-
-	WHOLESALE AND RETAIL TRADE	32.0	32.3	32.1	32.0	32.3	-	-	-	-	-
50, 51	WHOLESALE TRADE	38.5	38.2	38.5	38.5	38.5	-	-	-	-	-
50	WHOLESALE TRADE-DURABLE GOODS	38.8	38.9	38.8	38.9	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	38.3	38.5	38.6	38.7	-	-	-	-	-	-
502	Furniture and home furnishings	37.2	37.5	36.9	37.1	-	-	-	-	-	-
503	Lumber and construction materials	38.3	38.6	38.9	39.1	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.5	37.4	37.2	37.3	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings					
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	
	WHOLESALE TRADE-DURABLE GOODS—Continued											
505	Metals and minerals, except petroleum	\$321.20	\$321.93	\$344.20	\$348.17	-	\$8.05	\$8.15	\$8.67	\$8.77	-	
506	Electrical goods	273.86	276.64	306.14	305.37	-	7.04	7.13	7.87	7.85	-	
507	Hardware, plumbing, and heating equipment	249.22	253.33	265.80	266.81	-	6.49	6.58	6.94	6.93	-	
508	Machinery, equipment, and supplies	278.24	281.24	300.66	303.79	-	7.08	7.12	7.67	7.73	-	
509	Miscellaneous durable goods	222.72	225.04	239.71	240.63	-	5.77	5.83	6.21	6.25	-	
51	WHOLESALE TRADE-NONDURABLE GOODS	262.96	258.96	283.49	284.26	-	6.92	6.98	7.48	7.52	-	
511	Paper and paper products	289.38	290.18	310.06	313.39	-	7.95	7.95	8.38	8.47	-	
512	Drugs, proprietaries, and sundries	269.38	273.79	291.51	294.40	-	7.32	7.44	7.90	8.00	-	
513	Apparel, piece goods, and notions	228.49	231.10	248.64	250.12	-	6.26	6.28	6.72	6.76	-	
514	Groceries and related products	262.05	244.28	283.49	285.74	-	6.86	6.92	7.48	7.48	-	
516	Chemicals and allied products	324.30	327.89	345.93	342.88	-	8.21	8.28	8.87	8.86	-	
517	Petroleum and petroleum products	342.40	342.28	356.80	352.23	-	8.56	8.60	8.92	9.01	-	
518	Beer, wine, and distilled beverages	293.88	300.20	324.12	325.68	-	7.90	8.07	8.76	8.85	-	
519	Miscellaneous nondurable goods	219.25	219.07	235.62	235.16	-	5.68	5.69	6.12	6.14	-	
52-59	RETAIL TRADE	144.12	147.14	156.60	156.90	\$158.99	4.82	4.84	5.22	5.23	\$5.23	
52	BUILDING MATERIALS AND GARDEN SUPPLIES	191.94	195.83	206.45	207.89	-	5.23	5.25	5.61	5.68	-	
521	Lumber and other building materials	213.24	217.72	229.31	230.06	-	5.51	5.54	5.91	5.96	-	
525	Hardware stores	154.56	157.54	167.15	170.35	-	4.60	4.62	4.96	5.07	-	
53	GENERAL MERCHANDISE STORES	138.62	141.41	149.14	148.92	-	4.78	4.81	5.09	5.10	-	
531	Department stores	143.84	146.41	154.18	154.23	-	4.96	4.98	5.28	5.30	-	
533	Variety stores	114.17	116.92	122.96	120.72	-	3.91	3.95	4.14	4.12	-	
539	Misc. general merchandise stores	111.05	113.58	127.44	129.13	-	3.79	3.85	4.22	4.22	-	
54	FOOD STORES	188.79	194.30	213.78	212.97	-	6.09	6.11	6.83	6.87	-	
541	Grocery stores	196.88	202.55	223.02	222.86	-	6.29	6.31	7.08	7.12	-	
546	Retail bakeries	135.83	138.14	140.45	136.97	-	4.62	4.62	4.86	4.84	-	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	209.07	211.31	228.75	229.97	-	5.59	5.62	6.10	6.10	-	
551, 2	New and used car dealers	246.89	251.52	271.81	270.27	-	6.48	6.55	7.06	7.02	-	
553	Auto and home supply stores	210.42	210.94	228.10	232.07	-	5.17	5.17	5.66	5.73	-	
554	Gasoline service stations	155.49	156.29	170.02	172.18	-	4.43	4.44	4.83	4.85	-	
56	APPAREL AND ACCESSORY STORES	119.71	122.69	134.78	131.23	-	4.26	4.26	4.68	4.67	-	
561	Men's and boys' clothing and furnishings	152.79	156.33	169.28	166.53	-	4.82	4.84	5.29	5.27	-	
562	Women's ready-to-wear stores	106.27	109.33	117.66	116.58	-	4.01	3.99	4.31	4.35	-	
565	Family clothing stores	113.16	117.01	129.15	126.17	-	4.10	4.12	4.50	4.49	-	
566	Shoe stores	125.49	128.33	148.89	138.38	-	4.45	4.41	5.03	4.96	-	
57	FURNITURE AND HOME FURNISHINGS STORES	185.46	189.31	199.28	201.48	-	5.36	5.44	5.81	5.84	-	
571	Furniture and home furnishings stores	190.01	192.24	200.31	202.41	-	5.46	5.54	5.84	5.85	-	
572	Household appliance stores	195.71	200.15	215.42	221.25	-	5.56	5.67	6.12	6.25	-	
573	Radio, television, and music stores	166.66	174.73	187.04	187.04	-	4.96	5.05	5.55	5.55	-	
58	EATING AND DRINKING PLACES ²	94.94	97.52	101.14	102.18	-	3.68	3.68	3.92	3.93	-	
59	MISCELLANEOUS RETAIL	148.80	150.87	158.69	159.32	-	4.80	4.82	5.07	5.09	-	
591	Drug stores and proprietary stores	129.65	130.54	134.96	135.83	-	4.44	4.41	4.67	4.70	-	
594	Miscellaneous shopping goods stores	134.54	136.65	143.93	144.70	-	4.53	4.51	4.75	4.76	-	
596	Nonstore retailers	186.15	191.48	195.95	199.92	-	5.71	5.75	5.92	5.95	-	
598	Fuel and ice dealers	232.74	237.84	256.32	254.22	-	6.19	6.21	6.71	6.69	-	
599	Retail stores, nec	159.87	159.09	170.84	171.53	-	4.73	4.88	5.01	5.06	-	
-	FINANCE, INSURANCE, AND REAL ESTATE ³	205.77	210.03	225.06	225.53	223.82	5.70	5.77	6.20	6.23	6.20	
60	BANKING	175.68	180.68	193.98	194.55	-	4.88	4.95	5.30	5.33	-	
602	Commercial and stock savings banks	172.80	177.76	190.32	191.78	-	4.80	4.87	5.20	5.24	-	
61	CREDIT AGENCIES OTHER THAN BANKS	183.96	189.67	202.03	202.58	-	5.04	5.14	5.49	5.52	-	
612	Savings and loan associations	174.47	181.06	188.40	188.60	-	4.86	4.92	5.19	5.21	-	
614	Personal credit institutions	178.12	181.90	202.94	203.13	-	4.88	4.97	5.47	5.49	-	
63	INSURANCE CARRIERS	236.50	237.13	255.82	254.45	-	6.29	6.29	6.84	6.84	-	
631	Life insurance	248.06	248.03	265.13	262.97	-	6.46	6.51	7.07	7.05	-	
632	Medical service and health insurance	226.48	228.22	240.03	242.63	-	5.96	5.99	6.35	6.47	-	
633	Fire, marine, and casualty insurance	228.64	230.51	250.18	248.40	-	6.23	6.23	6.78	6.75	-	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	39.9	39.5	39.7	39.7	-	-	-	-	-	
506	Electrical goods	38.9	38.8	38.9	38.9	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment	38.4	38.5	38.3	38.5	-	-	-	-	-	
508	Machinery, equipment, and supplies	39.3	39.5	39.2	39.3	-	-	-	-	-	
509	Miscellaneous durable goods	38.6	38.6	38.6	38.5	-	-	-	-	-	
51	WHOLESALE TRADE-NONDURABLE GOODS ..	38.0	37.1	37.9	37.8	-	-	-	-	-	
511	Paper and paper products	36.4	36.5	37.0	37.0	-	-	-	-	-	
512	Drugs, proprietaries, and sundries	36.8	36.8	36.9	36.8	-	-	-	-	-	
513	Apparel, piece goods, and notions	36.5	36.8	37.0	37.0	-	-	-	-	-	
514	Groceries and related products	38.2	35.3	37.9	38.2	-	-	-	-	-	
516	Chemicals and allied products	39.5	39.6	39.0	38.7	-	-	-	-	-	
517	Petroleum and petroleum products	40.0	39.8	40.0	39.1	-	-	-	-	-	
518	Beer, wine, and distilled beverages	37.2	37.2	37.0	36.8	-	-	-	-	-	
519	Miscellaneous nondurable goods	38.6	38.5	38.5	38.3	-	-	-	-	-	
52-59	RETAIL TRADE	29.9	30.4	30.0	30.0	30.4	-	-	-	-	
52	BUILDING MATERIALS AND GARDEN SUPPLIES	36.7	37.3	36.8	36.6	-	-	-	-	-	
521	Lumber and other building materials	38.7	39.3	38.8	38.6	-	-	-	-	-	
525	Hardware stores	33.6	34.1	33.7	33.6	-	-	-	-	-	
53	GENERAL MERCHANDISE STORES	29.0	29.4	29.3	29.2	-	-	-	-	-	
531	Department stores	29.0	29.4	29.2	29.1	-	-	-	-	-	
533	Variety stores	29.2	29.6	29.7	29.3	-	-	-	-	-	
539	Misc. general merchandise stores	29.3	29.5	30.2	30.6	-	-	-	-	-	
54	FOOD STORES	31.0	31.8	31.3	31.0	-	-	-	-	-	
541	Grocery stores	31.3	32.1	31.5	31.3	-	-	-	-	-	
546	Retail bakeries	29.4	29.9	28.9	28.3	-	-	-	-	-	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	37.4	37.6	37.5	37.7	-	-	-	-	-	
551, 2	New and used car dealers	38.1	38.4	38.5	38.5	-	-	-	-	-	
553	Auto and home supply stores	40.7	40.8	40.3	40.5	-	-	-	-	-	
554	Gasoline service stations	35.1	35.2	35.2	35.5	-	-	-	-	-	
56	APPAREL AND ACCESSORY STORES	28.1	28.8	28.8	28.1	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	31.7	32.3	32.0	31.6	-	-	-	-	-	
562	Women's ready-to-wear stores	26.5	27.4	27.3	26.8	-	-	-	-	-	
565	Family clothing stores	27.6	28.4	28.7	28.1	-	-	-	-	-	
566	Shoe stores	28.2	29.1	29.6	27.9	-	-	-	-	-	
57	FURNITURE AND HOME FURNISHINGS STORES	34.6	34.8	34.3	34.5	-	-	-	-	-	
571	Furniture and home furnishings stores	34.8	34.7	34.3	34.6	-	-	-	-	-	
572	Household appliance stores	35.2	35.3	35.2	35.4	-	-	-	-	-	
573	Radio, television, and music stores	33.6	34.6	33.7	33.7	-	-	-	-	-	
58	EATING AND DRINKING PLACES	25.8	26.5	25.8	26.0	-	-	-	-	-	
59	MISCELLANEOUS RETAIL	31.0	31.3	31.3	31.3	-	-	-	-	-	
591	Drug stores and proprietary stores	29.2	29.6	28.9	28.9	-	-	-	-	-	
594	Miscellaneous shopping goods stores	29.7	30.3	30.3	30.4	-	-	-	-	-	
596	Nonstore retailers	32.6	33.3	33.1	33.6	-	-	-	-	-	
598	Fuel and ice dealers	37.6	38.3	38.2	38.0	-	-	-	-	-	
599	Retail stores, nec	33.8	32.6	34.1	33.9	-	-	-	-	-	
-	FINANCE, INSURANCE, AND REAL ESTATE	36.1	36.4	36.3	36.2	36.1	-	-	-	-	
60	BANKING	36.0	36.5	36.6	36.5	-	-	-	-	-	
602	Commercial and stock savings banks	36.0	36.5	36.6	36.6	-	-	-	-	-	
61	CREDIT AGENCIES OTHER THAN BANKS	36.5	36.9	36.8	36.7	-	-	-	-	-	
612	Savings and loan associations	35.9	36.8	36.3	36.2	-	-	-	-	-	
614	Personal credit institutions	36.5	36.6	37.1	37.0	-	-	-	-	-	
63	INSURANCE CARRIERS	37.6	37.7	37.4	37.2	-	-	-	-	-	
631	Life insurance	38.4	38.1	37.5	37.3	-	-	-	-	-	
632	Medical service and health insurance	38.0	38.1	37.8	37.5	-	-	-	-	-	
633	Fire, marine, and casualty insurance	36.7	37.0	36.9	36.8	-	-	-	-	-	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
-	SERVICES	\$187.60	\$190.57	\$205.38	\$205.73	\$206.99	\$5.79	\$5.81	\$6.30	\$6.33	\$6.33
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	136.62	139.15	143.45	147.67	-	4.45	4.46	4.75	4.81	-
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	149.84	151.53	162.72	161.42	-	4.42	4.47	4.80	4.79	-
723	Beauty shops	129.43	129.60	145.35	140.73	-	4.30	4.32	4.75	4.66	-
	BUSINESS SERVICES										
73	Advertising	196.53	199.98	210.59	212.22	-	6.01	6.06	6.44	6.47	-
731	Services to buildings	285.96	289.07	313.45	311.34	-	8.01	8.12	8.78	8.77	-
734	Computer and data processing services	140.76	144.84	146.88	149.33	-	5.10	5.21	5.42	5.47	-
737	.....	252.05	258.84	288.77	289.04	-	7.08	7.17	7.68	7.77	-
	AUTO REPAIR, SERVICES, AND GARAGES										
75	Automotive repair shops	225.43	228.61	240.03	240.92	-	6.06	6.08	6.35	6.34	-
753	.....	252.59	252.85	267.74	267.92	-	6.46	6.50	6.83	6.80	-
76	MISCELLANEOUS REPAIR SERVICES	273.43	270.48	290.30	297.59	-	6.87	6.90	7.56	7.65	-
	MOTION PICTURES										
78	Motion picture production and services	199.19	206.06	219.56	205.74	-	7.35	7.23	8.51	8.10	-
781	.....	415.07	421.20	474.53	458.18	-	10.05	10.40	12.93	11.87	-
79	AMUSEMENT AND RECREATION SERVICES	158.48	164.47	181.80	177.87	-	5.62	5.34	6.06	6.05	-
	HEALTH SERVICES										
80	Offices of physicians	181.91	185.46	202.09	202.77	-	5.58	5.62	6.18	6.22	-
801	Offices of dentists	185.28	190.19	210.28	206.72	-	5.79	5.87	6.47	6.42	-
802	.....	161.80	163.29	174.56	176.19	-	5.56	5.65	6.19	6.27	-
805	Nursing and personal care facilities	127.20	129.17	138.43	138.60	-	4.13	4.14	4.48	4.50	-
806	Hospitals	201.11	204.17	224.08	225.78	-	5.95	5.97	6.61	6.68	-
81	LEGAL SERVICES	245.18	256.34	270.83	270.30	-	7.19	7.43	7.85	7.95	-
	MISCELLANEOUS SERVICES										
89	Engineering and architectural services	316.97	321.77	354.77	349.65	-	8.43	8.49	9.12	9.25	-
891	.....	349.46	351.14	389.22	387.00	-	9.03	9.05	9.99	10.00	-
893	Accounting, auditing, and bookkeeping	263.15	270.48	303.60	289.13	-	7.19	7.33	7.59	7.71	-

¹ For coverage of series, see footnote 1, table B-2.

² Beginning January 1978, data relate to line haul railroads with operating revenues of \$50,000,000 or more.

³ Data relate to employees in such occupations in the telephone industry as switchboard operators, service assistants; operating room instructors; and pay-station attendants. In 1977, such employees made up 20 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

⁴ Data relate to employees in such occupations in the telephone industry as central office craft persons; installation and exchange repair craft persons; line, cable and conduit craft persons; and laborers. In 1977, such employees made up 37 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

⁵ Money payments only; tips, not included.

⁶ Data for nonoffice sales agents excluded from all series in this division.

- Data not available.

p = preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, updated seasonal adjustment factors, and rebased indexes. Because of these revisions, data in this table may differ from data published earlier. See article in this issue for additional information.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1980	June 1980	Apr. 1981	May 1981P	June 1981P	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
-	SERVICES	32.4	32.8	32.6	32.5	32.7	-	-	-	-	-
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts	30.7	31.2	30.2	30.7	-	-	-	-	-	-
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	33.9	33.9	33.9	33.7	-	-	-	-	-	
723	Beauty shops	30.1	30.0	30.6	30.2	-	-	-	-	-	
73	BUSINESS SERVICES	32.7	33.0	32.7	32.8	-	-	-	-	-	
731	Advertising	35.7	35.6	35.7	35.5	-	-	-	-	-	
734	Services to buildings	27.6	27.8	27.1	27.3	-	-	-	-	-	
737	Computer and data processing services	35.6	36.1	37.6	37.2	-	-	-	-	-	
75	AUTO REPAIR, SERVICES, AND GARAGES	37.2	37.6	37.8	38.0	-	-	-	-	-	
753	Automotive repair shops	39.1	38.9	39.2	39.4	-	-	-	-	-	
76	MISCELLANEOUS REPAIR SERVICES	39.8	39.2	38.4	38.9	-	-	-	-	-	
78	MOTION PICTURES	27.1	28.5	25.8	25.4	-	-	-	-	-	
781	Motion picture production and services	41.3	40.5	36.7	38.6	-	-	-	-	-	
79	AMUSEMENT AND RECREATION SERVICES	28.2	30.8	30.0	29.4	-	-	-	-	-	
80	HEALTH SERVICES	32.6	33.0	32.7	32.6	-	-	-	-	-	
801	Offices of physicians	32.0	32.4	32.5	32.2	-	-	-	-	-	
802	Offices of dentists	29.1	28.9	28.2	28.1	-	-	-	-	-	
805	Nursing and personal care facilities	30.8	31.2	30.9	30.8	-	-	-	-	-	
806	Hospitals	33.8	34.2	33.9	33.8	-	-	-	-	-	
81	LEGAL SERVICES	34.1	34.5	34.5	34.0	-	-	-	-	-	
89	MISCELLANEOUS SERVICES	37.6	37.9	38.9	37.8	-	-	-	-	-	
891	Engineering and architectural services	38.7	38.8	39.0	38.7	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	36.6	36.9	40.0	37.5	-	-	-	-	-	

ESTABLISHMENT DATA HOURS AND EARNINGS

C-3. Employment, hours, and indexes of earnings in the Executive Branch of the Federal Government

[Employment in thousands—includes both supervisory and nonsupervisory employees]

Item	1979							1980					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Executive Branch													
Total employment	2,770.2	2,783.0	2,789.6	2,697.8	2,702.7	2,707.0	2,717.2	2,709.1	2,749.5	2,815.1	3,049.2	2,908.2	2,939.1
Average weekly hours	39.4	39.8	39.5	39.4	39.3	39.7	39.5	39.3	39.6	38.9	37.7	36.6	38.3
Average overtime hours	1.0	1.2	1.2	1.4	1.4	1.3	1.4	1.1	1.2	1.2	1.1	1.0	1.1
Indexes (1967=100):													
Average weekly earnings	238.6	241.3	242.5	244.6	254.5	259.5	261.5	259.6	261.1	254.8	244.4	236.8	247.5
Average hourly earnings	238.6	238.9	241.9	244.6	255.1	257.6	260.8	260.3	259.7	258.1	255.4	254.9	254.6
Department of Defense													
Total employment	906.6	908.5	908.5	887.2	887.8	888.0	889.0	885.1	885.4	886.6	888.5	895.1	909.8
Average weekly hours	39.9	40.1	40.0	40.0	38.9	40.0	40.0	39.8	39.9	39.8	39.8	39.8	39.6
Average overtime hours .....	.8	.8	.9	1.2	.9	1.1	1.0	.8	.9	1.0	.8	.9	1.0
Indexes (1967=100):													
Average weekly earnings	233.6	233.4	234.5	238.0	240.4	252.3	254.0	249.7	251.7	251.9	251.9	249.2	251.7
Average hourly earnings	236.0	234.6	236.2	239.8	249.0	254.2	255.9	252.9	254.2	255.0	255.0	252.3	256.1
Postal Service													
Total employment	663.2	665.4	665.4	659.0	653.7	673.0	673.5	655.9	656.7	655.7	658.2	659.3	661.7
Average weekly hours	39.6	40.6	39.9	40.0	41.6	41.1	40.7	40.5	41.4	40.6	40.4	40.0	39.8
Average overtime hours	1.3	1.8	1.5	1.9	2.3	2.1	2.7	2.1	2.2	2.1	2.0	1.7	1.6
Indexes (1967=100):													
Average weekly earnings	274.0	281.2	283.0	286.2	300.6	296.1	305.7	304.0	311.6	305.6	303.8	299.5	310.0
Average hourly earnings	267.1	267.4	273.8	276.2	279.0	278.0	289.9	289.0	290.5	290.5	290.2	289.0	300.6
Other Agencies													
Total employment	1,200.4	1,209.1	1,215.7	1,151.6	1,161.2	1,146.0	1,154.7	1,168.1	1,207.4	1,272.8	1,502.5	1,353.8	1,367.6
Average weekly hours	38.8	39.2	38.9	38.7	38.7	38.5	38.3	38.2	38.3	37.3	34.9	32.9	36.6
Average overtime hours	1.0	1.2	1.2	1.4	1.2	1.0	.9	.9	.9	.8	.8	.8	.9
Indexes (1967=100):													
Average weekly earnings	223.3	226.6	227.1	228.4	243.2	244.4	243.6	244.2	241.9	231.3	211.1	200.2	215.0
Average hourly earnings	223.3	224.3	226.5	229.0	243.8	246.3	246.8	248.0	245.0	240.6	234.7	236.1	228.0

NOTE: The hours and earnings averages presented in this table have been computed using data collected by the Office of Personnel Management from agencies with 2500 or more employees in the Executive Branch of the Federal Government; the data cover both salaried workers and hourly paid wage-board employees. Since these averages relate to hours and earnings of all workers both super-

visory and nonsupervisory, they are not comparable to similar data presented in table C-2 which relate only to production or nonsupervisory workers. The total employment levels shown include all workers in the Executive Branch regardless of the size of the agency.

NOTE: This table will be discontinued with this issue. Data shown have not been revised or rebased.

C-4. Average hourly earnings excluding overtime of production workers on manufacturing payrolls by industry

Major industry group	Average hourly earnings excluding overtime ¹				
	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
MANUFACTURING	\$6.91	\$6.99	\$7.62	\$7.64	\$7.67
DURABLE GOODS	7.37	7.45	8.12	8.15	8.20
Lumber and wood products	6.17	6.31	6.63	6.68	-
Furniture and fixtures	5.33	5.40	5.66	5.70	-
Stone, clay, and glass products	7.14	7.21	7.75	7.81	-
Primary metal industries	9.34	9.40	10.35	10.29	-
Fabricated metal products	7.11	7.22	7.81	7.88	-
Machinery, except electrical	7.57	7.65	8.36	8.41	-
Electric and electronic equipment	6.61	6.70	7.32	7.34	-
Transportation equipment	8.75	8.93	9.76	9.81	-
Instruments and related products	6.53	6.62	7.08	7.11	-
Miscellaneous manufacturing industries	5.31	5.34	5.78	5.79	-
NONDURABLE GOODS	6.24	6.30	6.86	6.86	6.89
Food and kindred products	6.52	6.54	7.07	7.11	-
Tobacco manufactures	7.52	7.92	8.77	8.79	-
Textile mill products	4.73	4.77	5.19	5.18	-
Apparel and other textile products	4.39	4.45	4.90	4.91	-
Paper and allied products	7.32	7.45	7.97	8.01	-
Printing and publishing	7.22	7.25	7.81	7.85	-
Chemicals and allied products	7.90	7.98	8.61	8.62	-
Petroleum and coal products	9.65	9.86	10.91	10.77	-
Rubber and misc. plastics products	6.24	6.30	6.91	6.95	-
Leather and leather products	4.45	4.45	4.86	4.85	-

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

P=preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, updated seasonal adjustment factors, and rebased indexes. Because of these revisions, data in this table may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-5. Gross and spendable average weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division, in current and 1977 dollars

Industry	Gross average weekly earnings			Spendable average weekly earnings ²					
				Worker with no dependents			Married worker with 3 dependents		
	May 1980	Apr. 1981	May 1981P	May 1980	Apr. 1981	May 1981P	May 1980	Apr. 1981	May 1981P
TOTAL PRIVATE:									
Current dollars	\$229.60	\$250.98	\$252.38	\$184.98	\$198.61	\$199.59	\$202.23	\$217.14	\$218.20
Constant (1977 dollars)	170.07	170.73	170.18	137.02	135.11	134.59	149.80	147.71	147.13
MINING:									
Current dollars	387.29	422.92	424.33	288.85	307.98	308.82	319.35	342.05	343.02
Constant (1977 dollars)	286.88	287.70	286.13	213.96	209.51	208.24	236.56	232.69	231.30
CONSTRUCTION:									
Current dollars	360.14	384.87	387.14	272.23	285.40	286.75	299.64	315.66	317.23
Constant (1977 dollars)	266.77	261.82	261.05	201.65	194.15	193.36	221.96	214.73	213.91
MANUFACTURING:									
Current dollars	280.21	312.84	317.59	220.08	240.39	243.40	240.63	263.55	266.99
Constant (1977 dollars)	207.56	212.82	214.15	163.02	163.53	164.13	178.24	179.29	180.03
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	342.30	374.92	375.71	260.84	279.50	279.96	286.64	308.46	309.04
Constant (1977 dollars)	253.56	255.05	253.34	193.21	190.14	188.78	212.33	209.84	208.39
WHOLESALE AND RETAIL TRADE:									
Current dollars	173.44	188.43	188.48	143.94	154.08	154.12	160.81	169.82	169.85
Constant (1977 dollars)	128.47	128.18	127.09	106.62	104.82	103.92	119.12	115.52	114.53
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	205.77	225.06	225.53	167.69	180.58	180.92	183.81	197.61	197.97
Constant (1977 dollars)	152.42	153.10	152.08	124.21	122.84	122.00	136.16	134.43	133.49
SERVICES:									
Current dollars	187.60	205.38	205.73	154.45	166.34	166.60	170.25	182.44	182.71
Constant (1977 dollars)	138.96	139.71	138.73	114.41	113.16	112.34	126.11	124.11	123.20

¹ For coverage of series, see footnote 1, table B-2.

² Spendable earnings are calculated by taking the average weekly pay for all production or nonsupervisory jobs, both full-time and part-time, and then deducting social security and Federal income taxes applicable to a single worker or to a married worker with three dependents who earned this amount (see Explanatory Notes for the establishment data in the back of

this publication). A technical note on the calculation and uses of the spendable earnings series is available on request.

p=preliminary

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, and updated seasonal factors. In addition, constant dollar series presented in this table and in table C-9 have been converted to reflect constant 1977 dollars. The deflator for these series is derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W). Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division and major manufacturing group

(1977=100)

Industry division and group	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
	Hours				
TOTAL PRIVATE	106.2	107.7	107.5	108.5	110.3
GOODS-PRODUCING	101.2	102.2	100.7	102.5	104.9
MINING	120.9	125.6	110.8	112.6	133.1
CONSTRUCTION	116.4	123.9	110.4	113.3	118.8
MANUFACTURING	97.3	96.9	98.4	99.9	100.9
DURABLE GOODS	97.6	96.6	99.5	100.7	101.4
Lumber and wood products	83.4	87.4	91.0	94.7	95.6
Furniture and fixtures	93.4	91.2	98.9	99.9	102.1
Stone, clay, and glass products	95.3	95.6	93.6	95.2	96.6
Primary metal industries	92.0	87.7	96.4	95.1	95.8
Fabricated metal products	96.2	95.1	96.5	97.7	99.1
Machinery, except electrical	112.5	110.3	110.4	111.3	112.2
Electric and electronic equipment	105.4	103.6	107.3	108.5	109.3
Transportation equipment	85.1	85.8	90.8	92.6	92.0
Instruments and related products	112.0	112.8	110.6	111.9	112.4
Miscellaneous manufacturing industries	93.6	92.2	90.3	91.5	93.2
NONDURABLE GOODS	96.9	97.4	96.8	98.7	100.2
Food and kindred products	95.8	98.4	93.4	95.5	97.6
Tobacco manufactures	86.8	88.5	86.5	88.5	87.9
Textile mill products	93.1	90.5	89.9	92.5	93.0
Apparel and other textile products	95.4	97.1	93.8	97.0	98.8
Paper and allied products	97.8	98.4	99.1	100.1	101.9
Printing and publishing	105.9	105.5	108.0	108.4	108.0
Chemicals and allied products	101.7	101.1	101.8	102.0	103.9
Petroleum and coal products	98.4	101.5	103.7	106.0	106.8
Rubber and misc. plastics products	94.0	92.9	101.3	103.1	105.1
Leather and leather products	91.3	92.8	88.0	92.5	94.5
SERVICE-PRODUCING	109.0	110.8	111.3	111.8	113.3
TRANSPORTATION AND PUBLIC UTILITIES	105.8	106.7	104.5	104.8	107.1
WHOLESALE AND RETAIL TRADE	104.7	106.1	105.7	106.5	107.9
WHOLESALE TRADE	110.2	109.8	110.7	111.1	112.2
RETAIL TRADE	102.6	104.6	103.9	104.8	106.2
FINANCE, INSURANCE, AND REAL ESTATE	113.7	116.2	117.3	117.5	119.0
SERVICES	114.1	116.4	118.7	119.1	120.5

¹ For coverage of series, see footnote 1, table B-2.

p preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, and updated seasonal factors. In addition, data in this table have been converted to a 1977 base year. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

C-8. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division and major manufacturing group—Continued

(1977=100)

Industry division and group	May 1980	June 1980	Apr. 1981	May 1981P	June 1981P
	Payrolls				
TOTAL PRIVATE	132.9	135.6	146.1	148.1	151.3
GOODS-PRODUCING	127.5	130.3	138.4	141.7	146.4
MINING	157.8	165.5	154.8	157.5	191.7
CONSTRUCTION	140.1	149.6	142.1	147.1	154.9
MANUFACTURING	122.3	123.0	136.5	139.3	141.5
DURABLE GOODS	122.3	122.5	137.8	140.3	142.3
Lumber and wood products	104.1	111.8	122.0	128.5	130.8
Furniture and fixtures	116.8	115.5	131.8	134.4	138.0
Stone, clay, and glass products	122.0	123.9	130.7	134.1	137.1
Primary metal industries	119.6	114.4	140.1	137.2	139.9
Fabricated metal products	119.4	119.7	131.6	135.1	138.0
Machinery, except electrical	141.3	139.7	152.9	155.7	158.0
Electric and electronic equipment	132.3	131.7	149.5	151.9	153.2
Transportation equipment	105.6	108.6	126.4	130.3	130.5
Instruments and related products	142.0	144.8	151.4	154.6	156.4
Miscellaneous manufacturing industries	116.1	114.9	122.3	124.4	126.5
NONDURABLE GOODS	122.2	123.9	134.2	137.4	140.0
Food and kindred products	121.5	125.3	128.1	132.2	134.4
Tobacco manufactures	120.3	127.9	138.9	144.4	150.6
Textile mill products	114.6	112.2	121.0	125.2	126.5
Apparel and other textile products	117.1	120.9	128.3	133.4	136.0
Paper and allied products	125.5	128.5	139.2	141.5	146.0
Printing and publishing	128.7	128.5	141.8	143.4	143.1
Chemicals and allied products	129.3	129.7	141.5	142.0	146.2
Petroleum and coal products	126.6	132.4	151.0	153.0	156.6
Rubber and misc. plastics products	116.4	116.2	140.0	144.0	147.8
Leather and leather products	115.0	117.2	120.3	126.9	129.9
SERVICE-PRODUCING	136.7	139.4	151.5	152.6	154.8
TRANSPORTATION AND PUBLIC UTILITIES	131.8	133.5	142.6	143.4	146.6
WHOLESALE AND RETAIL TRADE	132.7	134.9	145.2	146.6	148.6
WHOLESALE TRADE	140.6	141.3	153.4	154.7	156.4
RETAIL TRADE	128.5	131.4	140.8	142.3	144.4
FINANCE, INSURANCE, AND REAL ESTATE	142.8	147.6	160.1	161.1	162.3
SERVICES	142.0	145.3	160.8	162.0	164.1

ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

**C-7. Average weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls
by industry division and major manufacturing group, seasonally adjusted**

Industry	1980							1981					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May p	June p
TOTAL PRIVATE	35.2	35.1	35.2	35.3	35.3	35.3	35.3	35.3	35.2	35.3	35.4	35.4	35.3
MINING ²	43.2	42.0	43.2	43.5	43.6	43.6	44.1	43.6	42.8	42.3	43.6	43.7	43.0
CONSTRUCTION ²	37.9	37.7	37.3	38.0	37.9	36.8	37.2	36.4	35.0	37.2	36.9	36.8	37.6
MANUFACTURING	39.3	39.2	39.5	39.6	39.7	39.8	39.9	40.1	39.8	39.9	40.2	40.3	40.1
<i>Overtime hours</i>	2.5	2.5	2.7	2.7	2.8	3.0	3.0	3.0	2.8	2.8	2.9	3.1	3.0
DURABLE GOODS	39.7	39.5	40.0	40.1	40.1	40.4	40.4	40.6	40.1	40.4	40.8	40.8	40.5
<i>Overtime hours</i>	2.4	2.4	2.7	2.7	2.8	3.0	3.1	3.0	2.8	2.8	3.0	3.2	3.0
Lumber and wood products	37.9	38.2	38.8	38.7	38.6	39.1	39.3	39.8	39.1	39.1	39.6	39.8	38.9
Furniture and fixtures	37.2	36.8	37.6	38.1	38.0	38.0	38.4	38.5	38.6	38.6	38.8	39.0	39.0
Stone, clay, and glass products	40.5	40.4	40.5	40.8	40.8	40.9	41.0	41.3	40.6	40.7	41.2	41.0	40.5
Primary metal industries	39.0	38.9	39.4	39.7	40.1	40.8	41.2	41.1	40.7	41.0	41.2	41.0	40.9
Fabricated metal products	40.0	39.8	40.2	40.4	40.4	40.5	40.4	40.5	40.2	40.4	40.9	40.9	40.6
Machinery, except electrical	40.7	40.6	40.8	40.9	40.8	41.0	40.9	41.1	40.8	40.9	41.3	41.4	41.3
Electric and electronic equipment	39.4	39.1	39.6	39.6	39.8	39.9	40.0	40.1	39.6	40.0	40.2	40.4	40.1
Transportation equipment	40.0	40.0	40.8	40.7	40.7	41.2	41.0	41.3	40.5	40.9	42.0	41.8	41.4
Instruments and related products	40.5	40.2	40.3	40.2	40.3	40.4	40.4	40.6	40.5	40.5	40.1	40.4	40.3
Miscellaneous manufacturing ind	38.3	38.4	38.6	38.8	38.6	38.6	38.9	38.8	38.6	38.7	38.9	39.1	39.2
NONDURABLE GOODS	38.7	38.6	38.9	38.9	39.0	39.1	39.2	39.5	39.2	39.2	39.3	39.6	39.4
<i>Overtime hours</i>	2.6	2.7	2.8	2.8	2.8	2.9	2.9	3.0	2.9	2.8	2.9	3.1	3.0
Food and kindred products	39.6	39.7	39.8	39.7	39.6	39.8	39.7	40.3	39.9	39.7	40.1	39.9	39.7
Tobacco manufactures ²	38.4	36.6	36.9	38.2	40.0	40.1	38.1	38.6	38.5	37.2	37.2	38.6	36.8
Textile mill products	39.4	39.1	39.5	39.9	39.8	39.9	40.1	40.0	40.0	39.9	39.8	40.6	40.2
Apparel and other textile products	35.3	35.2	35.2	35.2	35.4	35.2	35.5	36.1	35.6	35.7	35.5	36.1	36.0
Paper and allied products	41.7	41.7	42.0	42.2	42.2	42.4	42.8	42.6	42.4	42.4	42.6	42.9	42.6
Printing and publishing	36.9	37.0	37.0	36.9	37.1	36.8	37.4	37.5	37.3	37.1	37.3	37.5	37.3
Chemicals and allied products	41.3	41.0	41.2	41.4	41.5	41.6	41.6	41.6	41.6	41.5	41.5	41.6	41.3
Petroleum and coal products	42.2	42.1	42.1	42.4	42.8	42.9	43.2	43.8	43.8	43.5	44.1	43.8	43.0
Rubber and misc. plastics products	39.4	39.1	40.2	40.2	40.5	40.8	40.8	40.9	40.3	40.5	40.7	41.2	41.1
Leather and leather products	36.7	36.2	36.6	36.4	36.7	36.3	36.6	36.8	37.0	37.1	36.6	37.0	36.8
TRANSPORTATION AND PUBLIC UTILITIES ²	39.5	39.9	39.7	39.7	39.8	39.7	40.0	39.4	39.5	39.4	39.3	39.3	39.5
WHOLESALE AND RETAIL TRADE	32.0	32.0	32.1	32.1	32.1	32.2	32.1	32.2	32.2	32.2	32.3	32.2	32.1
WHOLESALE TRADE	38.1	38.1	38.3	38.5	38.5	38.5	38.6	38.8	38.6	38.6	38.6	38.5	38.4
RETAIL TRADE	30.1	30.0	30.1	30.1	30.1	30.2	30.0	30.1	30.2	30.2	30.3	30.2	30.1
FINANCE, INSURANCE, AND REAL ESTATE ²	36.4	36.2	36.3	36.1	36.3	36.3	36.3	36.4	36.4	36.4	36.3	36.2	36.1
SERVICES	32.6	32.6	32.6	32.6	32.6	32.7	32.7	32.7	32.8	32.8	32.8	32.7	32.5

¹ For coverage of series, see footnote 1, table B-2.
² See footnote 1, table B-5.

p=preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, updated seasonal adjustment factors, and rebased indexes. Because of these revisions, data in this table may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED

**C-8. Indexes of aggregate weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls
by industry division and major manufacturing group, seasonally adjusted**

(1977=100)

Industry division and group	1980							1981					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May p	June p
TOTAL PRIVATE	106.1	105.9	106.6	107.1	107.4	107.7	107.9	108.2	107.9	108.4	108.9	108.9	108.8
GOODS-PRODUCING	100.5	98.7	100.2	101.3	101.7	102.0	102.3	102.4	100.9	102.4	102.8	103.0	103.3
MINING	122.9	117.0	120.5	123.1	124.0	126.6	130.1	130.1	128.6	128.2	112.0	112.4	130.4
CONSTRUCTION	117.3	114.3	114.5	117.6	117.7	114.4	115.6	113.9	109.1	116.6	115.8	112.3	112.7
MANUFACTURING	96.2	94.9	96.5	97.2	97.6	98.4	98.5	98.9	98.0	98.4	99.9	100.7	100.2
DURABLE GOODS	95.9	94.4	96.0	96.8	97.3	98.6	98.5	99.0	97.8	98.6	100.7	101.2	100.7
Lumber and wood products	84.6	85.9	88.5	89.5	89.1	90.6	91.7	93.2	91.7	91.9	94.5	96.1	92.5
Furniture and fixtures	92.1	88.6	92.6	95.1	95.1	95.1	96.4	96.6	97.4	97.4	100.5	102.6	103.6
Stone, clay, and glass products	92.1	90.9	92.4	93.9	93.9	94.5	94.1	94.6	92.8	92.7	94.8	94.5	93.2
Primary metal industries	86.7	82.8	84.7	86.9	89.3	92.6	94.6	94.6	94.0	94.7	95.7	94.8	94.6
Fabricated metal products	94.5	92.0	94.4	95.6	95.9	96.4	96.1	96.2	95.3	96.2	98.2	98.7	98.4
Machinery, except electrical	110.0	108.1	108.3	109.0	109.1	109.8	109.3	109.8	108.7	109.1	110.5	111.9	111.9
Electric and electronic equipment	103.4	101.7	103.6	103.7	104.6	105.3	106.1	106.5	105.3	107.0	108.4	109.7	109.1
Transportation equipment	86.0	86.1	87.6	87.9	88.2	91.3	88.3	89.1	86.8	88.7	93.3	92.5	92.5
Instruments and related products	111.5	110.9	111.4	110.9	111.4	111.7	112.0	112.3	111.2	111.5	110.9	112.2	111.2
Miscellaneous manufacturing ind	90.6	91.4	90.7	90.9	89.5	90.1	90.8	91.2	90.7	90.6	92.0	92.2	92.1
NONDURABLE GOODS	96.6	95.6	97.4	97.7	98.0	98.0	98.4	98.9	98.3	98.1	98.7	100.0	99.4
Food and kindred products	98.9	100.2	101.5	100.7	100.4	100.3	99.7	100.9	100.4	99.0	100.5	100.5	98.0
Tobacco manufactures	97.9	91.6	90.6	95.6	100.1	102.2	97.1	98.4	98.1	96.5	96.5	98.4	95.5
Textile mill products	89.3	87.7	90.5	91.1	91.3	91.3	91.6	91.2	90.9	90.7	90.7	92.8	92.0
Apparel and other textile products	94.6	93.9	94.5	94.4	94.6	93.9	94.4	95.4	94.0	94.3	94.1	96.3	96.3
Paper and allied products	97.2	95.9	97.6	98.4	98.8	99.4	100.4	99.9	99.2	99.1	99.9	101.0	100.7
Printing and publishing	106.1	105.9	106.4	106.6	107.0	106.3	108.5	108.5	108.2	107.8	108.5	109.2	108.8
Chemicals and allied products	100.2	98.2	98.7	99.8	99.9	100.5	100.6	100.8	101.1	101.0	101.2	101.9	102.9
Petroleum and coal products	99.3	99.8	100.6	101.3	102.2	102.5	102.4	104.6	104.6	103.9	105.3	107.0	104.2
Rubber and misc. plastics products	92.7	89.5	95.3	96.7	98.3	99.4	100.0	100.4	99.3	100.1	102.2	104.9	105.2
Leather and leather products	88.8	83.5	89.0	88.5	88.8	87.8	88.1	88.5	89.5	89.3	88.5	90.4	90.4
SERVICE-PRODUCING	109.2	109.8	110.1	110.3	110.6	110.9	111.0	111.3	111.7	111.8	112.3	112.2	111.8
TRANSPORTATION AND PUBLIC UTILITIES	105.4	106.4	105.9	106.0	106.3	105.7	106.6	105.0	105.4	105.1	105.4	104.7	105.8
WHOLESALE AND RETAIL TRADE	104.8	105.0	105.7	106.0	106.1	106.3	105.9	106.6	106.8	106.9	107.2	107.4	106.8
WHOLESALE TRADE	108.7	109.0	109.7	110.5	110.6	110.5	110.9	111.5	111.1	111.1	111.4	111.4	110.9
RETAIL TRADE	103.3	103.5	104.2	104.3	104.3	104.7	103.9	104.7	105.2	105.4	105.6	105.8	105.1
FINANCE, INSURANCE, AND REAL ESTATE	114.9	114.7	115.3	114.9	115.9	116.2	116.5	117.3	117.4	117.5	117.8	117.6	117.4
SERVICES	114.4	115.3	115.5	115.8	116.0	116.9	117.3	117.7	118.2	118.4	119.3	119.2	118.6

¹ For coverage of series, see footnote 1, table B-2.

p-preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, and updated seasonal factors. In addition, data in this table have been converted to a 1977 base year. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA SEASONALLY ADJUSTED

C-9. Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, seasonally adjusted

Industry	1980						1981						
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May P	June P
Hourly Earnings Index² (1977=100)													
TOTAL PRIVATE (In current dollars).....	127.0	127.6	128.7	129.4	130.6	132.1	132.6	133.8	135.0	135.8	136.7	137.6	138.2
MINING.....	134.0	134.3	135.0	136.7	137.5	139.2	139.8	142.1	143.2	144.0	145.7	145.8	147.3
CONSTRUCTION.....	121.0	121.8	122.9	123.1	124.4	125.2	126.2	127.6	128.0	128.6	129.0	129.3	130.1
MANUFACTURING.....	129.1	130.4	131.3	132.3	133.5	134.6	135.4	136.5	137.5	138.5	139.9	140.7	141.4
TRANSPORTATION AND PUBLIC UTILITIES.....	126.7	127.7	128.1	128.1	130.9	132.6	132.8	133.7	135.4	136.1	137.3	138.4	138.9
WHOLESALE AND RETAIL TRADE.....	127.4	128.2	129.3	129.9	130.8	132.3	132.4	133.7	135.0	135.8	136.4	137.5	137.8
FINANCE, INSURANCE, AND REAL ESTATE.....	127.0	126.7	128.7	129.1	129.9	132.4	131.9	133.2	135.0	136.0	135.4	136.7	136.3
SERVICES.....	125.6	125.0	126.6	127.3	128.5	130.5	131.1	132.0	133.2	134.0	134.8	135.9	136.9
TOTAL PRIVATE (In 1977 dollars) ³	93.4	93.8	93.9	93.3	93.2	93.3	92.7	92.8	92.7	92.8	93.0	93.0	-
Average hourly earnings													
TOTAL PRIVATE.....	\$6.64	\$6.66	\$6.72	\$6.76	\$6.83	\$6.90	\$6.94	\$6.99	\$7.04	\$7.09	\$7.14	\$7.18	\$7.23
MINING ⁴	9.15	9.07	9.16	9.31	9.36	9.49	9.57	9.77	9.86	9.85	9.70	9.71	10.00
CONSTRUCTION.....	9.87	9.93	10.02	10.05	10.15	10.21	10.30	10.39	10.44	10.49	10.52	10.56	10.65
MANUFACTURING.....	7.22	7.29	7.36	7.41	7.49	7.59	7.63	7.69	7.74	7.80	7.90	7.95	7.98
TRANSPORTATION AND PUBLIC UTILITIES.....	8.83	8.90	8.93	8.94	9.12	9.20	9.26	9.33	9.44	9.48	9.57	9.64	9.68
WHOLESALE AND RETAIL TRADE.....	5.46	5.50	5.54	5.57	5.61	5.66	5.69	5.72	5.78	5.81	5.84	5.89	5.91
FINANCE, INSURANCE, AND REAL ESTATE ⁴	5.77	5.77	5.83	5.87	5.91	6.02	6.00	6.10	6.21	6.19	6.20	6.23	6.20
SERVICES.....	5.86	5.86	5.91	5.94	6.00	6.07	6.11	6.15	6.20	6.24	6.27	6.32	6.38
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars.....	233.73	233.77	236.54	238.63	241.10	243.57	244.98	246.75	247.81	250.28	252.76	254.17	255.22
1977 dollars ⁵	171.99	171.89	172.53	172.05	172.09	171.89	171.19	171.12	170.20	170.96	172.06	171.85	-
Real spendable earnings (married worker with 3 dependents, 1977 dollars) ^{3,5}	151.11	151.02	151.34	150.74	150.57	150.20	149.48	148.38	147.49	147.96	148.73	148.44	-

¹ For coverage of series, see footnote 1, table B-2.

² The index excludes effects of two types of changes that are unrelated to underlying wage-rate developments: Fluctuations in overtime premiums in manufacturing (the only sector for which overtime data are available) and the effects of changes in the proportion of workers in high-wage and low-wage industries.

³ The deflator for these series is derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

⁴ See footnote 1, table B-5.

⁵ See footnote 2, table C-5.

p=preliminary.

NOTE: See note table C-5.

C-10. Hours of wage and salary workers¹ in nonagricultural establishments by industry division

Industry division	Millions of hours (Annual rate) ²			Percent change		
	APRIL r1981	MAY p1981	JUNE p1981	June 1980 to June 1981	April 1981 to May 1981	May 1981 to June 1981
TOTAL.....	170,563	171,429	170,687	1.5	0.5	-0.4
PRIVATE SECTOR.....	139,849	139,871	139,221	2.3	0.0	-0.5
MINING.....	2,173	2,180	2,430	7.4	0.3	11.5
CONSTRUCTION.....	8,434	8,214	8,086	-4.1	-2.6	-1.6
MANUFACTURING.....	42,191	42,491	42,121	2.9	0.7	-0.9
DURABLE GOODS.....	25,671	25,817	25,586	3.5	0.6	-0.9
NONDURABLE GOODS.....	16,520	16,675	16,535	1.9	0.9	-0.8
TRANSPORTATION AND PUBLIC UTILITIES.....	10,615	10,564	10,583	0.6	-0.5	0.2
WHOLESALE AND RETAIL TRADE.....	34,844	34,784	34,569	1.2	-0.2	-0.6
FINANCE, INSURANCE, AND REAL ESTATE.....	10,037	10,050	10,034	2.8	0.1	-0.2
SERVICES.....	31,555	31,587	31,398	4.6	0.1	-0.6
GOVERNMENT.....	30,714	31,559	31,466	-1.8	2.8	-0.3

¹ 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 for Surveys and Studies*, BLS Bulletin 1910—Chapter 30, Productivity Measures: Private Economy and Major Sectors.

² "Annual rate" refers to total hours paid for 1 week in the month, expressed as a seasonally adjusted annual equivalent.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark, updated seasonal adjustment factors, and rebased indexes. Because of these revisions, data in this table may differ from data published earlier. See article in this issue for additional information.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

**C-11. Indexes of output and compensation per hour, unit costs, and prices,
private business sector, seasonally adjusted**

(1977 = 100)

Item	Annual average		Quarterly indexes										
			1978		1979				1980				1981
	1979	1980	III	IV	I	II	III	IV	I	II	III	IV	I
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	99.4	99.1	100.0	99.9	99.7	99.6	99.2	99.0	99.3	98.8	99.2	98.9	r 99.9
Output	107.7	106.8	105.3	106.7	107.7	107.1	107.7	108.2	108.7	105.4	105.7	107.5	r109.4
Hours	108.4	107.8	105.4	106.8	108.1	107.5	108.6	109.3	109.5	106.7	106.5	108.7	109.5
Compensation per hour	119.2	131.1	109.4	111.9	115.0	118.0	120.5	123.0	126.0	129.7	132.8	135.5	r139.3
Real compensation per hour	99.5	96.4	100.5	100.3	100.6	100.3	99.0	97.8	96.5	96.3	96.7	95.7	r 95.8
Unit labor costs	119.9	132.3	109.4	112.1	115.4	118.5	121.4	124.2	127.0	131.3	133.9	137.0	r139.4
Unit nonlabor payments	110.9	118.4	106.7	109.1	109.6	110.4	111.5	112.3	115.3	116.0	119.8	122.8	r127.9
Implicit price deflator	116.9	127.6	108.5	111.1	113.4	115.8	118.1	120.2	123.0	126.1	129.1	132.2	r135.5
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	99.0	98.6	99.9	99.8	99.5	99.1	98.7	98.6	98.6	97.9	98.8	98.7	r 99.7
Output	107.7	106.8	105.3	106.8	107.9	107.1	107.8	108.2	108.5	105.1	105.8	107.7	r109.7
Hours	108.8	108.3	105.6	107.1	108.4	108.1	109.2	109.7	110.0	107.3	107.1	109.1	110.0
Compensation per hour	118.8	130.5	109.4	111.9	114.9	117.6	119.9	122.7	125.6	129.0	131.9	135.0	r138.7
Real compensation per hour	99.2	96.0	100.5	100.3	100.4	99.9	98.6	97.6	96.2	95.7	96.1	95.4	r 95.4
Unit labor costs	120.0	132.4	109.5	112.2	115.4	118.7	121.5	124.4	127.4	131.8	133.5	136.8	139.2
Unit nonlabor payments	108.5	117.6	105.1	107.0	107.1	107.7	109.3	110.2	114.0	115.2	119.2	122.1	r128.0
Implicit price deflator	116.2	127.4	108.0	110.5	112.6	115.1	117.4	119.7	122.9	126.3	128.8	131.9	r135.4
MANUFACTURING:													
Output per hour of all persons	101.9	101.4	101.7	102.0	101.4	102.3	101.9	101.9	101.7	100.5	100.2	103.0	r103.8
Output	108.6	103.7	106.6	108.3	109.3	108.5	108.5	108.3	108.0	101.7	99.7	105.3	r107.2
Hours	106.6	102.2	104.8	106.2	107.7	106.1	106.5	106.3	106.2	101.2	99.5	102.1	r103.2
Compensation per hour	118.7	131.2	109.1	111.5	114.5	118.5	119.7	122.0	125.0	129.6	133.5	136.8	r140.4
Real compensation per hour	99.1	96.5	100.2	100.0	100.2	100.7	98.4	97.0	95.7	96.2	97.2	96.7	96.5
Unit labor costs	116.5	129.4	107.3	109.3	112.9	115.9	117.5	119.8	122.9	128.9	133.2	132.8	r135.2
DURABLE GOODS													
Output per hour of all persons	100.7	99.2	101.8	101.9	100.7	101.5	100.0	100.1	99.5	98.7	97.7	100.9	r102.0
Output	110.2	102.8	108.7	110.9	111.7	110.3	109.5	109.1	108.3	100.7	97.8	104.4	r106.5
Hours	109.4	103.6	106.8	108.9	110.8	108.7	109.5	108.9	108.8	102.1	100.1	103.4	r104.4
Compensation per hour	118.3	131.3	108.5	111.1	114.1	118.4	119.2	121.3	124.8	129.6	133.7	137.3	r140.9
Real compensation per hour	98.7	96.5	99.7	99.6	99.8	100.5	98.0	96.4	95.5	96.2	97.3	97.0	r 96.9
Unit labor costs	117.5	132.3	106.6	109.0	113.3	116.6	119.2	121.1	125.4	131.4	136.8	136.0	r138.1
NONDURABLE GOODS													
Output per hour of all persons	103.9	104.8	101.5	102.2	102.6	103.4	104.9	104.7	105.3	103.4	104.1	106.3	r106.7
Output	106.4	105.0	103.3	104.4	105.7	105.8	107.0	107.1	107.6	103.1	102.6	106.6	r108.1
Hours	102.4	100.2	101.8	102.2	103.0	102.3	102.0	102.2	102.3	99.7	98.6	100.2	r101.4
Compensation per hour	118.7	130.6	109.6	111.6	114.5	118.1	119.7	122.7	124.6	129.3	133.1	135.5	139.0
Real compensation per hour	99.1	96.1	100.6	100.1	100.1	100.3	98.4	97.5	95.4	95.9	96.9	95.8	r 95.6
Unit labor costs	114.3	124.6	107.9	109.2	111.6	114.2	114.2	117.1	118.4	125.0	127.8	127.5	r130.3
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	100.3	100.8	100.4	100.5	100.6	100.6	100.3	99.7	100.0	99.8	101.5	101.5	p102.9
Output	109.3	108.5	106.4	108.0	109.5	109.0	109.4	109.3	109.9	106.8	107.7	109.7	p112.6
Hours	109.0	107.7	105.9	107.5	108.9	108.4	109.1	109.7	110.0	107.0	106.1	108.2	p109.5
Compensation per hour	118.6	130.4	109.2	111.5	114.5	117.5	119.8	122.4	125.3	128.9	132.1	135.1	p138.7
Real compensation per hour	99.0	95.9	100.2	99.9	100.1	99.8	98.5	97.3	95.9	95.7	96.2	95.4	p 95.4
Total unit costs	116.8	129.7	107.6	109.6	112.2	115.3	118.2	121.3	124.2	129.2	131.1	134.1	p136.3
Unit labor costs	118.2	129.4	108.7	111.0	113.8	116.8	119.5	122.8	125.4	129.1	130.2	133.1	p134.9
Unit nonlabor costs	112.7	130.2	104.4	106.0	107.8	111.2	114.6	117.2	120.9	129.3	133.8	136.9	p140.2
Unit profits	99.0	90.2	105.9	108.9	105.6	100.7	97.5	92.2	95.5	83.4	89.1	92.4	p105.1
Implicit price deflator	114.8	125.2	107.4	109.6	111.5	113.7	115.9	118.1	121.0	124.1	126.4	129.5	p132.8

p=preliminary.
r=revised.

NOTE: Data in this table reflect the conversion of the base year from 1967 to 1977 = 100.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

C-12. Percent changes from preceding quarter and year in productivity, hourly compensation, unit costs, and prices, private business sector, seasonally adjusted at annual rate

Item	Quarterly percent change						Annual percent change					
	III 1979	IV 1979	I 1980	II 1980	III 1980	IV 1980	IV 1978	I 1979	II 1979	III 1979	IV 1979	I 1980
	to IV 1979	to I 1980	to II 1980	to III 1980	to IV 1980	to I 1981	to IV 1979	to I 1980	to II 1980	to III 1980	to IV 1980	to I 1981
PRIVATE BUSINESS SECTOR:												
Output per hour of all persons	-1.1	1.3	-1.9	1.5	-1.2	r4.3	-0.9	-0.4	-0.8	0.0	-0.1	r0.6
Output	1.7	1.8	-11.5	1.1	6.9	r7.5	1.4	0.9	-1.6	-1.9	-0.7	r0.7
Hours	2.8	0.5	-9.9	-0.4	8.3	r3.1	2.4	1.3	-0.8	-1.9	-0.6	0.1
Compensation per hour	8.6	10.4	12.2	9.7	8.4	r11.7	9.9	9.6	9.9	10.2	10.2	10.5
Real compensation per hour	-4.9	-5.2	-0.8	1.8	-4.0	r0.2	-2.5	-4.1	-4.0	-2.3	-2.1	-0.7
Unit labor costs	9.8	9.0	14.4	8.1	9.7	r7.1	10.9	10.0	10.8	10.3	10.3	9.8
Unit nonlabor payments	2.6	11.3	2.6	13.6	10.3	r17.7	2.9	5.2	5.1	7.4	9.4	r10.9
Implicit price deflator	7.4	9.7	10.5	9.8	9.9	r10.4	8.2	8.4	9.0	9.4	10.0	10.1
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	-0.3	0.0	-3.0	3.8	-0.4	r4.0	-1.1	-0.9	-1.2	0.1	0.1	1.0
Output	1.5	1.4	-12.1	2.9	7.1	r7.6	1.3	0.6	-1.9	-1.8	-0.5	1.0
Hours	1.8	1.4	-9.4	-0.9	7.5	r3.5	2.4	1.5	-0.7	-1.9	-0.5	0.0
Compensation per hour	9.6	9.9	11.2	9.3	9.6	r11.4	9.6	9.4	9.7	10.0	10.0	r10.4
Real compensation per hour	-4.0	-5.7	-1.7	1.4	-2.9	r0.0	-2.7	-4.3	-4.2	-2.5	-2.3	-0.8
Unit labor costs	9.9	9.9	14.6	5.3	10.1	r7.2	10.9	10.4	11.0	9.9	9.9	r9.2
Unit nonlabor payments	3.3	14.6	4.2	14.9	10.0	r20.8	3.0	6.4	6.9	9.1	10.8	r12.3
Implicit price deflator	7.8	11.3	11.3	8.2	10.0	r11.3	8.3	9.1	9.7	9.6	10.2	r10.2
MANUFACTURING:												
Output per hour of all persons	0.1	-0.7	-4.6	-1.1	11.7	r3.1	-0.1	0.3	-1.7	-1.6	1.1	r2.1
Output	-0.8	-0.1	-21.4	-7.6	24.2	r7.5	0.0	-1.1	-6.3	-8.1	-2.8	r-0.8
Hours	-0.9	-0.3	-17.6	-6.6	11.2	r4.2	0.1	-1.4	-4.7	-6.6	-3.9	-2.8
Compensation per hour	8.1	10.1	15.5	12.7	10.2	r10.9	9.4	9.1	9.3	11.6	12.1	r12.3
Real compensation per hour	-5.4	-5.6	2.1	4.6	-2.4	r-0.5	-2.9	-4.5	-4.5	-1.2	-0.4	r0.9
Unit labor costs	8.0	10.8	21.1	14.0	-1.3	r7.5	9.6	8.8	11.2	13.4	10.8	r10.0
DURABLE GOODS												
Output per hour of all persons	0.5	-2.5	-3.4	-3.8	13.8	r4.4	-1.7	-1.2	-2.8	-2.3	0.8	r2.5
Output	-1.5	-3.0	-25.0	-11.3	29.9	r8.6	-1.6	-3.0	-8.7	-10.7	-4.3	r-1.6
Hours	-2.0	-0.5	-22.4	-7.8	14.1	r4.0	0.1	-1.9	-6.0	-8.6	-5.1	r-4.0
Compensation per hour	7.2	12.0	16.5	13.1	11.2	r11.0	9.2	9.3	9.5	12.2	13.2	r12.9
Real compensation per hour	-6.7	-3.9	3.0	5.0	-1.5	r-0.3	-3.2	-4.3	-4.3	-0.6	0.6	r1.5
Unit labor costs	6.7	14.8	20.6	17.6	-2.3	r6.3	11.1	10.7	12.7	14.8	12.3	r10.2
NONDURABLE GOODS												
Output per hour of all persons	-0.6	2.1	-6.9	2.8	8.9	r1.3	2.4	2.6	-0.1	-0.7	1.6	r1.3
Output	0.2	2.1	-15.7	-2.0	16.5	r5.8	2.5	1.9	-2.6	-4.1	-0.4	r0.5
Hours	0.8	0.0	-9.5	-4.7	7.0	r4.5	0.1	-0.7	-2.5	-3.4	-2.0	r-0.9
Compensation per hour	10.1	6.6	15.7	12.4	7.6	r10.6	9.9	8.9	9.4	11.1	10.5	11.5
Real compensation per hour	-3.6	-8.5	2.2	4.3	-4.7	r-0.7	-2.5	-4.7	-4.4	-1.5	-1.8	0.2
Unit labor costs	10.7	4.4	24.3	9.3	-1.2	r9.2	7.3	6.1	9.5	12.0	8.8	r10.0
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	-2.4	1.2	-0.5	6.9	-0.1	p5.6	-0.8	-0.6	-0.7	1.2	1.8	p2.9
Output	-0.4	2.2	-10.9	3.4	7.9	p10.8	-1.2	0.4	-2.0	-1.6	0.4	p2.4
Hours	2.1	1.0	-10.5	-3.3	8.1	p4.9	2.0	1.0	-1.3	-2.8	-1.4	p-0.5
Compensation per hour	8.9	9.8	12.0	10.3	9.2	p11.2	9.8	9.5	9.7	10.3	10.3	p10.7
Real compensation per hour	-4.6	-5.7	-1.0	2.3	-3.2	p-2	-2.6	-4.2	-4.1	-2.3	-2.0	p-0.5
Total unit costs	11.0	9.8	17.0	6.2	9.4	p6.6	10.7	10.6	12.0	11.0	10.5	p9.7
Unit labor costs	11.6	8.6	12.6	3.2	9.4	p5.3	10.7	10.1	10.5	8.9	8.4	p7.6
Unit nonlabor costs	9.3	13.5	-30.6	14.7	9.5	10.1	10.6	12.2	16.3	16.8	16.8	p15.9
Unit profits	-20.2	15.3	-41.9	30.3	15.7	p66.9	-15.4	-9.5	-17.2	-8.6	0.3	p10.0
Implicit price deflator	7.8	10.3	10.5	7.9	9.9	p10.7	7.8	8.5	9.1	9.1	9.6	p9.7

p=preliminary.
r=revised.

NOTE: Data in this table reflect the conversion of the base year from 1967 to 1977 = 100.

**ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS**

C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
ALABAMA	\$253.84	\$280.40	\$282.80	39.6	40.0	40.4	\$6.41	\$7.01	\$7.00
Birmingham	309.17	324.80	318.39	40.1	40.0	39.7	7.71	8.12	8.02
Mobile	318.61	352.73	350.22	40.9	41.4	41.3	7.79	8.52	8.48
ALASKA	426.89	414.46	(*)	42.1	40.2	(*)	10.14	10.31	(*)
ARIZONA	287.20	310.08	312.38	40.0	39.5	40.1	7.18	7.85	7.79
Phoenix	280.90	301.02	311.44	39.9	39.4	40.5	7.04	7.64	7.69
Tucson	281.87	258.76	287.66	39.7	38.7	37.9	7.10	7.72	7.59
ARKANSAS	214.62	243.54	250.08	38.6	39.6	40.4	5.56	6.15	6.19
Fayetteville—Springdale	188.93	214.68	212.63	36.9	38.2	37.7	5.12	5.62	5.64
Fort Smith	202.55	240.09	245.16	36.3	38.6	39.1	5.58	6.22	6.27
Little Rock—North Little Rock	245.46	274.62	281.64	39.4	39.8	40.7	6.23	6.90	6.92
Pine Bluff	302.30	319.19	311.13	40.2	41.4	41.1	7.52	7.71	7.57
CALIFORNIA	299.44	326.93	334.72	39.4	39.2	39.8	7.60	8.34	8.41
Anaheim—Santa Ana—Garden Grove	283.11	316.39	320.76	40.1	40.1	40.5	7.06	7.89	7.92
Bakersfield	326.23	361.62	356.24	39.4	41.0	40.9	8.28	8.82	8.71
Fresno	274.38	302.64	293.75	38.7	39.0	38.1	7.09	7.76	7.71
Los Angeles—Long Beach	286.88	311.26	318.80	39.5	39.5	40.1	7.19	7.88	7.95
Modesto	285.01	306.44	314.77	37.9	37.6	38.2	7.52	8.15	8.24
Oxnard—Simi Valley—Ventura	257.85	280.24	287.04	38.2	38.6	39.0	6.75	7.26	7.36
Riverside—San Bernardino—Ontario	295.68	329.94	323.93	38.5	39.8	39.6	7.68	8.29	8.18
Sacramento	309.75	335.01	344.31	38.1	38.2	38.6	8.13	8.77	8.92
Salinas—Seaside—Monterey	275.28	292.99	290.69	37.1	38.5	37.9	7.42	7.61	7.67
San Diego	280.14	298.13	313.19	38.8	37.5	39.1	7.22	7.95	8.01
San Francisco—Oakland	349.71	395.65	399.99	38.9	39.0	39.1	8.99	10.15	10.23
San Jose	315.59	342.68	347.13	39.4	39.8	39.9	8.01	8.61	8.70
Santa Barbara—Santa Maria—Lompoc	255.88	285.37	297.61	37.3	38.1	38.5	6.86	7.49	7.73
Santa Rosa	263.78	290.70	293.76	37.1	38.1	38.2	7.11	7.63	7.69
Stockton	308.35	351.25	352.32	38.4	39.6	39.9	8.03	8.87	8.83
Vallejo—Fairfield—Napa	303.48	353.19	367.05	37.1	38.6	38.8	8.18	9.15	9.46
COLORADO	294.67	321.55	320.35	39.5	39.6	39.5	7.46	8.12	8.11
Denver—Boulder	292.35	312.78	317.96	39.4	39.0	39.4	7.42	8.02	8.07
CONNECTICUT	293.85	313.33	318.24	41.8	41.5	41.6	7.03	7.55	7.65
Bridgeport	305.15	330.58	336.26	42.5	42.6	43.0	7.18	7.76	7.87
Hartford	324.61	330.42	333.29	42.6	41.2	41.3	7.62	8.02	8.07
New Britain	300.62	323.53	330.85	42.4	41.8	42.2	7.09	7.74	7.84
New Haven—West Haven	283.01	290.21	293.78	40.2	39.7	39.7	7.04	7.31	7.40
Stamford	280.97	289.05	293.76	42.7	41.0	41.2	6.58	7.05	7.13
Waterbury	244.32	264.13	270.67	41.2	41.4	41.9	5.93	6.38	6.46
DELAWARE	295.96	345.47	363.80	39.2	40.5	42.6	7.55	8.53	8.54
Wilmington	336.94	397.21	421.36	39.5	41.3	43.8	8.53	9.62	9.62
DISTRICT OF COLUMBIA: Washington SMSA	319.66	341.05	351.04	38.7	38.8	39.8	8.26	8.79	8.82
FLORIDA	236.56	254.38	258.55	40.3	39.5	39.9	5.87	6.44	6.48
Fort Lauderdale—Hollywood	218.83	236.59	245.83	39.5	39.3	40.7	5.54	6.02	6.04
Jacksonville	274.19	299.70	304.06	40.5	40.5	41.2	6.77	7.40	7.38
Lakeland—Winter Haven	279.28	290.86	310.54	44.9	42.4	44.3	6.22	6.86	7.01
Miami	199.56	212.80	218.62	38.6	38.0	38.9	5.17	5.60	5.62
Orlando	255.65	273.73	279.39	41.3	41.6	41.7	6.19	6.58	6.70
Pensacola	282.40	330.24	331.19	40.4	43.0	42.9	6.99	7.68	7.72
Tampa—St. Petersburg	245.23	258.32	262.35	40.4	40.3	40.3	6.07	6.41	6.51
West Palm Beach—Boca Raton	266.09	282.80	283.41	41.0	40.4	40.2	6.49	7.00	7.05
GEORGIA	223.51	248.69	(*)	39.7	39.6	(*)	5.63	6.28	(*)
Atlanta	256.03	295.50	(*)	38.1	39.4	(*)	6.72	7.50	(*)
Savannah	303.84	340.13	(*)	42.2	43.0	(*)	7.20	7.91	(*)
HAWAII	244.84	292.82	290.86	35.9	39.2	39.2	6.82	7.49	7.42
Honolulu	239.98	287.47	272.65	35.5	38.9	37.4	6.76	7.39	7.29
IDAHO	259.56	295.63	307.69	36.1	37.0	37.8	7.19	7.99	8.14
Boise City	229.82	266.63	273.02	33.6	37.5	37.4	6.84	7.11	7.30

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
ILLINOIS	\$311.26	\$353.76	\$361.42	39.4	40.2	40.7	\$7.90	\$8.80	\$8.88
Bloomington—Normal.....	297.56	307.51	319.16	41.1	38.2	39.5	7.24	8.05	8.08
Champaign—Urbana—Rantoul.....	270.07	310.79	311.18	37.2	38.8	38.8	7.26	8.01	8.02
Chicago SMSA.....	294.75	323.56	329.22	39.3	39.7	40.1	7.50	8.15	8.21
Davenport—Rock Island—Moline.....	388.28	422.25	411.56	40.7	40.1	38.9	9.54	10.53	10.58
Decatur.....	318.98	400.47	415.11	35.8	39.3	39.8	8.91	10.19	10.43
Kankakee.....	275.97	288.78	298.32	39.6	37.7	38.1	7.07	7.66	7.83
Peoria.....	382.35	455.04	466.85	38.9	39.5	39.8	9.83	11.52	11.73
Rockford.....	307.65	356.65	367.98	35.8	40.9	41.3	7.73	8.72	8.91
Springfield.....	299.03	368.63	380.89	37.9	39.3	39.8	7.89	9.38	9.57
INDIANA	326.93	373.33	377.46	39.2	40.1	40.5	8.34	9.31	9.32
Gary—Hammond—East Chicago.....	424.99	519.38	(*)	38.6	40.8	(*)	11.01	12.73	(*)
Indianapolis.....	327.46	362.30	(*)	36.5	40.3	(*)	8.29	8.99	(*)
IOWA	340.49	373.97	377.30	39.5	39.7	39.8	8.62	9.42	9.48
Cedar Rapids.....	337.19	366.44	380.95	39.3	38.9	40.1	8.58	9.42	9.50
Des Moines.....	336.11	370.36	375.06	38.5	38.7	39.2	8.73	9.57	9.67
Dubuque.....	380.56	413.12	421.79	37.2	38.9	39.2	10.23	10.62	10.76
Sioux City.....	337.98	374.98	372.34	42.3	43.3	42.7	7.99	8.66	8.72
Waterloo—Cedar Falls.....	446.61	500.85	502.21	41.2	40.1	39.7	10.84	12.49	12.65
KANSAS	287.75	317.02	323.87	39.8	40.8	41.1	7.23	7.77	7.88
Topeka.....	296.16	350.66	351.78	39.7	41.4	41.0	7.46	8.47	8.58
Wichita.....	317.21	352.80	363.38	35.8	42.1	42.7	7.97	8.38	8.51
KENTUCKY	278.40	307.71	311.52	38.4	39.5	40.3	7.25	7.79	7.73
Lexington—Fayette.....	278.91	251.88	307.17	38.9	36.9	38.3	7.17	7.91	8.02
Louisville.....	322.53	368.75	365.24	39.0	40.3	39.7	8.27	9.15	9.20
LOUISIANA	313.03	340.98	345.65	40.6	40.4	41.1	7.71	8.44	8.41
Baton Rouge.....	422.18	461.25	474.79	43.3	42.2	43.8	9.75	10.93	10.84
New Orleans.....	308.91	335.78	336.61	40.7	40.8	41.0	7.59	8.23	8.21
Shreveport.....	267.30	297.82	301.25	39.6	40.3	40.6	6.75	7.39	7.42
MAINE	232.43	260.50	263.90	39.8	40.2	40.6	5.84	6.48	6.50
Lewiston—Auburn.....	188.50	206.63	215.12	37.7	37.5	38.9	5.00	5.51	5.53
Portland.....	223.68	246.24	248.71	38.9	38.0	38.5	5.75	6.48	6.46
MARYLAND	291.33	323.30	329.62	39.0	40.4	40.1	7.47	8.25	8.22
Baltimore.....	308.85	356.83	348.30	39.8	41.3	40.5	7.76	8.64	8.60
MASSACHUSETTS	253.74	275.60	280.00	39.4	40.0	40.0	6.44	6.89	7.00
Boston.....	274.53	300.70	304.36	39.5	40.2	40.1	6.95	7.48	7.59
Brockton.....	202.66	223.04	226.06	35.2	39.9	39.8	5.17	5.59	5.68
Fall River.....	187.54	216.01	222.61	36.7	38.3	39.4	5.11	5.64	5.65
Lawrence—Haverhill.....	267.97	280.09	281.40	41.1	40.3	40.2	6.52	6.95	7.00
Lowell.....	222.26	249.46	253.59	37.8	39.1	39.5	5.88	6.38	6.42
New Bedford.....	216.22	233.98	239.90	37.8	37.8	38.2	5.72	6.19	6.28
Springfield—Chicopee—Holyoke.....	255.04	277.43	281.52	40.1	40.5	40.8	6.36	6.85	6.90
Worcester.....	258.33	283.06	(*)	39.5	39.7	(*)	6.54	7.13	(*)
MICHIGAN	362.24	418.24	437.91	39.4	40.9	41.5	9.19	10.23	10.55
Ann Arbor.....	382.05	499.30	512.29	36.1	44.1	44.8	9.77	11.22	11.44
Battle Creek.....	363.02	408.88	413.66	39.7	40.9	41.3	9.14	10.00	10.02
Bay City.....	333.67	371.47	394.56	39.6	40.5	42.4	8.43	9.17	9.32
Detroit.....	399.45	440.43	458.99	40.3	40.6	41.7	9.91	10.85	11.01
Flint.....	408.52	489.70	504.06	38.9	41.5	42.1	10.50	11.80	11.97
Grand Rapids.....	299.58	342.50	350.58	39.1	40.2	40.2	7.66	8.52	8.72
Jackson.....	339.77	379.81	413.08	41.1	42.0	44.1	8.27	9.04	9.37
Kalamazoo—Portage.....	331.24	400.65	413.63	39.4	41.0	42.1	8.41	9.77	9.83
Lansing—East Lansing.....	372.72	473.28	499.79	38.6	42.5	44.3	9.66	11.14	11.28
Muskegon—Norton Shores—Muskegon Heights.....	322.87	364.55	374.09	39.5	40.7	41.1	8.17	8.96	9.10
Saginaw.....	391.68	506.36	502.86	37.5	42.2	41.6	10.45	12.00	12.09
MINNESOTA	295.93	326.19	329.43	39.3	39.3	39.5	7.53	8.30	8.34
Duluth—Superior.....	261.56	312.42	319.59	37.1	39.2	39.7	7.05	7.97	8.05
Minneapolis—St. Paul.....	311.65	344.75	350.24	39.3	39.4	39.8	7.93	8.75	8.80
St. Cloud.....	218.77	238.74	240.58	36.1	35.9	35.8	6.06	6.65	6.72

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
MISSISSIPPI	\$205.06	\$235.22	\$237.61	38.4	39.4	39.8	\$5.34	\$5.97	\$5.97
Jackson.....	226.69	261.55	262.99	39.7	40.3	40.9	5.71	6.49	6.43
MISSOURI	277.53	305.75	312.43	38.6	39.3	39.8	7.19	7.78	7.85
Kansas City.....	309.27	353.03	362.56	39.0	39.8	40.6	7.93	8.87	8.93
St. Joseph.....	271.88	280.96	288.17	40.1	38.7	39.1	6.78	7.26	7.27
St. Louis.....	313.86	348.33	353.20	38.7	39.9	40.0	8.11	8.73	8.83
Springfield.....	254.41	299.63	305.78	39.2	40.6	41.1	6.49	7.38	7.44
MONTANA	381.00	369.56	367.52	43.1	40.7	40.7	8.84	9.08	9.03
NEBRASKA	287.56	312.43	317.97	39.5	39.8	40.3	7.28	7.85	7.89
Lincoln.....	264.46	292.97	295.15	37.3	38.6	38.8	7.09	7.59	7.71
Omaha.....	290.27	313.50	324.72	38.6	38.8	39.6	7.52	8.08	8.20
NEVADA	286.15	329.43	327.27	37.8	39.5	39.3	7.57	8.34	8.33
Las Vegas.....	355.56	445.67	(*)	40.4	40.7	(*)	8.90	10.95	(*)
NEW HAMPSHIRE	228.67	248.40	252.86	39.7	40.0	40.2	5.76	6.21	6.20
Manchester.....	213.79	222.83	235.38	39.3	39.0	39.1	5.44	5.57	6.02
Nashua.....	259.03	274.91	283.51	40.6	39.9	40.1	6.38	6.89	7.07
NEW JERSEY	293.54	322.32	326.36	40.6	40.8	41.0	7.23	7.90	7.96
Atlantic City.....	238.37	238.48	233.78	38.2	35.7	36.7	6.24	6.12	6.37
Camden ¹	289.17	319.55	324.36	40.5	40.5	40.8	7.14	7.89	7.95
Hackensack ²	267.20	275.77	283.50	40.0	40.2	40.5	6.68	6.86	7.00
Jersey City ²	280.10	307.50	304.44	39.9	41.0	40.7	7.02	7.50	7.43
New Brunswick—Perth Amboy—Sayreville ¹	341.14	368.80	375.20	41.4	42.1	42.3	8.24	8.76	8.87
Newark ²	304.88	326.18	341.07	41.2	41.3	41.9	7.40	8.14	8.14
Paterson—Clifton—Passaic ²	271.76	304.30	305.12	40.5	41.8	42.0	6.71	7.28	7.36
Trenton.....	293.76	324.22	326.87	38.2	39.6	39.4	7.69	8.44	8.55
NEW MEXICO	228.63	252.57	263.40	39.9	39.9	40.9	5.73	6.33	6.44
Albuquerque.....	246.33	259.03	267.21	41.4	40.6	41.3	5.95	6.38	6.47
NEW YORK	275.58	304.56	307.69	39.2	39.4	39.6	7.03	7.73	7.77
Albany—Schenectady—Troy.....	287.17	321.19	326.03	39.5	39.8	40.3	7.27	8.07	8.09
Binghamton.....	261.63	264.24	285.64	40.5	41.5	41.2	6.46	7.09	7.03
Buffalo.....	354.82	410.66	408.04	39.6	40.7	40.4	8.96	10.09	10.10
Elmira.....	287.75	308.73	317.02	40.7	41.0	40.8	7.07	7.53	7.77
Monroe County ³	366.80	414.83	422.42	41.4	41.4	41.7	8.86	10.02	10.13
Nassau—Suffolk ⁴	264.26	290.87	292.80	39.5	39.9	40.0	6.69	7.20	7.32
New York—Northeastern New Jersey.....	264.88	290.33	(*)	39.3	39.5	(*)	6.74	7.35	(*)
New York and Nassau—Suffolk ²	241.80	264.80	266.57	37.9	38.1	38.3	6.38	6.95	6.96
New York SMSA ⁴	235.88	258.25	259.31	37.5	37.7	37.8	6.29	6.85	6.86
New York City ⁵	231.25	253.27	253.57	37.0	37.3	37.4	6.25	6.79	6.78
Poughkeepsie.....	276.34	320.25	328.54	40.4	42.7	43.4	6.84	7.50	7.57
Rochester.....	346.06	361.81	396.48	41.1	41.2	41.3	8.42	9.51	9.60
Rockland County ⁵	272.03	288.80	296.74	40.3	40.0	40.1	6.75	7.22	7.40
Syracuse.....	312.42	332.51	334.95	41.6	40.6	40.6	7.51	8.19	8.25
Utica—Rome.....	267.46	287.43	301.10	39.8	39.7	40.8	6.72	7.24	7.38
Westchester County ²	273.14	298.07	309.54	41.7	41.0	42.0	6.55	7.27	7.37
NORTH CAROLINA	203.31	225.81	231.85	38.8	39.0	39.7	5.24	5.79	5.84
Asheville.....	202.91	218.82	227.43	39.4	38.8	39.9	5.15	5.64	5.70
Charlotte—Gastonia.....	207.72	233.78	240.54	40.1	40.1	40.7	5.18	5.83	5.91
Greensboro—Winston-Salem—High Point.....	221.55	243.32	250.88	38.8	38.5	39.2	5.71	6.32	6.40
Raleigh—Durham.....	240.79	257.28	262.28	39.8	39.1	39.5	6.05	6.58	6.64
NORTH DAKOTA	245.10	265.41	266.49	38.0	37.7	37.8	6.45	7.04	7.05
Fargo—Moorhead.....	266.44	278.94	282.22	37.9	36.8	36.7	7.03	7.58	7.69
OHIO	336.04	387.04	389.75	40.1	41.0	41.2	8.38	9.44	9.46
Akron.....	357.25	394.06	402.05	41.3	42.1	42.5	8.65	9.36	9.46
Canton.....	335.13	386.80	376.51	38.3	40.0	39.8	8.75	9.67	9.47
Cincinnati.....	324.34	350.47	358.11	40.5	40.8	41.4	7.93	8.59	8.65
Cleveland.....	335.56	392.64	402.12	39.9	41.2	41.8	8.41	9.53	9.62
Columbus.....	294.78	325.47	336.76	39.2	39.7	39.9	7.52	8.45	8.44
Dayton.....	339.42	401.94	395.15	40.6	42.0	41.7	8.36	9.57	9.50
Toledo.....	345.60	394.13	395.91	40.0	40.8	40.9	8.64	9.66	9.68
Youngstown—Warren.....	396.81	479.91	474.56	39.8	41.3	40.7	9.97	11.62	11.66

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS**

C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
OKLAHOMA	\$289.28	\$330.46	\$327.65	39.9	40.3	40.5	\$7.25	\$8.20	\$8.09
Oklahoma City	321.73	354.84	359.68	41.2	40.6	41.2	7.79	8.74	8.73
Tulsa	298.65	340.85	352.19	39.4	40.1	41.0	7.58	8.50	8.59
OREGON	322.53	353.40	358.90	37.9	38.0	38.1	8.51	9.30	9.42
Eugene—Springfield	348.79	363.47	375.54	39.5	38.1	39.2	8.83	9.54	9.58
Jackson County	297.79	344.31	(*)	35.2	38.6	(*)	8.46	8.92	(*)
Portland	316.76	355.51	357.40	37.8	37.7	37.7	8.38	9.43	9.48
Salem	299.84	333.53	(*)	35.4	37.1	(*)	8.47	8.99	(*)
PENNSYLVANIA	289.11	322.22	324.66	38.6	39.2	39.4	7.49	8.22	8.24
Allentown—Bethlehem—Easton	292.97	322.90	327.02	37.9	38.8	38.7	7.73	8.58	8.45
Altoona	260.95	276.82	277.59	39.3	38.5	38.5	6.64	7.19	7.21
Delaware Valley	297.86	325.91	331.17	39.4	39.6	39.9	7.56	8.23	8.30
Erie	308.39	339.39	345.68	40.9	40.5	41.3	7.54	8.38	8.37
Harrisburg	285.42	311.66	305.07	40.2	40.9	40.3	7.10	7.62	7.57
Johnstown	315.99	333.49	329.12	36.7	38.2	37.7	8.61	8.73	8.73
Lancaster	257.90	281.24	250.56	39.8	39.5	40.3	6.48	7.12	7.21
Northeast Pennsylvania	208.73	220.63	224.54	36.3	35.7	36.1	5.75	6.18	6.22
Philadelphia SMSA	296.25	325.17	329.60	39.5	39.8	40.0	7.50	8.17	8.24
Pittsburgh	353.72	412.23	418.59	38.7	41.1	41.2	9.14	10.03	10.16
Reading	272.69	301.22	302.48	38.9	39.7	39.8	7.01	7.59	7.60
Scranton	203.28	217.07	220.83	35.6	36.3	36.5	5.71	5.98	6.05
Wilkes-Barre—Hazleton	211.19	223.17	226.97	36.6	35.2	35.8	5.77	6.34	6.34
Williamsport	255.42	256.60	256.16	38.7	39.6	39.7	6.60	7.49	7.46
York	267.73	257.75	302.50	40.2	40.9	41.1	6.66	7.28	7.36
RHODE ISLAND	214.73	234.03	240.19	38.9	39.0	39.7	5.52	6.00	6.05
Providence—Warwick—Pawtucket	212.62	232.44	239.20	38.8	39.0	39.8	5.48	5.96	6.01
SOUTH CAROLINA	216.36	245.23	245.42	39.7	40.4	40.7	5.45	6.07	6.03
Charleston—North Charleston	256.71	298.42	277.02	40.3	41.5	40.5	6.37	6.95	6.84
Columbia	209.51	232.83	234.99	38.8	39.0	39.1	5.41	5.97	6.01
Greenville—Spartanburg	214.48	235.22	243.39	39.5	39.6	40.7	5.43	5.94	5.98
SOUTH DAKOTA	266.88	256.34	283.03	41.7	42.7	41.5	6.40	6.94	6.82
Rapid City	206.26	249.20	240.46	34.9	35.0	34.4	5.91	7.12	6.99
Sioux Falls	386.88	423.92	423.00	48.2	48.7	45.0	8.01	8.91	9.40
TENNESSEE	235.61	260.30	268.52	39.4	39.5	40.5	5.98	6.59	6.63
Chattanooga	243.00	261.70	267.56	40.5	40.2	40.6	6.00	6.51	6.60
Knoxville	271.75	292.87	250.60	40.2	39.9	39.7	6.76	7.34	7.32
Memphis	275.37	256.06	304.96	40.2	39.9	40.5	6.85	7.42	7.53
Nashville—Davidson	244.09	285.28	290.88	38.5	39.9	40.4	6.34	7.15	7.20
TEXAS	286.94	323.65	326.56	40.7	41.6	41.6	7.05	7.78	7.85
Abilene	192.76	225.59	214.85	41.1	43.3	41.8	4.69	5.21	5.14
Amarillo	285.80	321.09	320.49	41.2	41.7	41.3	6.92	7.70	7.76
Austin	227.42	247.02	249.42	41.2	40.1	40.1	5.52	6.16	6.22
Beaumont—Port Arthur—Orange	431.26	463.54	442.15	40.8	43.0	41.4	10.57	10.78	10.68
Corpus Christi	310.80	345.46	346.52	42.0	43.4	42.0	7.40	7.96	8.26
Dallas—Fort Worth	264.26	298.57	300.94	40.1	40.9	41.0	6.59	7.30	7.34
El Paso	213.38	214.78	204.27	40.8	42.7	41.1	5.23	5.03	4.97
Galveston—Texas City	390.60	498.41	485.19	37.2	44.7	43.6	10.50	11.15	11.22
Houston	367.22	406.12	410.26	42.8	44.0	44.4	8.58	9.23	9.24
Longview—Marshall	292.66	324.16	321.40	40.2	41.4	41.1	7.28	7.83	7.82
Lubbock	223.04	254.00	256.39	41.0	41.1	42.1	5.44	6.18	6.09
San Angelo	206.95	214.73	215.74	40.9	40.9	40.1	5.06	5.25	5.38
San Antonio	206.04	229.14	235.82	40.8	40.7	41.3	5.05	5.63	5.71
Sherman—Denison	247.46	273.70	288.86	40.5	39.1	40.8	6.11	7.00	7.08
Waco	237.62	259.78	262.14	38.7	39.6	39.9	6.14	6.56	6.57
Wichita Falls	252.16	288.56	283.21	39.4	41.4	40.3	6.40	6.97	7.03
UTAH	271.29	303.28	296.56	38.7	39.8	39.7	7.01	7.62	7.47
Salt Lake City—Ogden	257.94	292.32	291.72	39.2	40.6	40.8	6.58	7.20	7.15
VERMONT	241.40	265.32	264.27	40.3	40.2	39.8	5.99	6.60	6.64
Burlington	265.01	295.65	256.01	41.8	41.7	41.4	6.34	7.09	7.15
Springfield	272.00	305.02	302.19	41.4	40.4	40.4	6.57	7.55	7.48

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
VIRGINIA	\$238.07	\$263.46	\$264.80	38.9	39.5	39.7	\$6.12	\$6.67	\$6.67
Bristol.....	200.51	234.84	237.78	37.2	37.1	38.6	5.39	6.33	6.16
Lynchburg.....	231.08	263.06	263.20	39.1	40.1	40.0	5.91	6.56	6.58
Norfolk—Virginia Beach—Portsmouth.....	257.81	275.32	282.90	39.3	39.5	41.3	6.56	6.97	6.85
Northern Virginia ¹	271.96	286.77	257.89	39.3	39.5	40.2	6.92	7.26	7.41
Petersburgh—Colonial Heights—Hopewell.....	303.28	323.60	256.82	39.8	40.0	32.8	7.62	8.09	7.83
Richmond.....	306.93	355.66	358.69	39.4	40.6	40.9	7.79	8.76	8.77
Roanoke.....	223.57	243.49	245.65	39.5	39.4	39.5	5.66	6.18	6.22
WASHINGTON	355.65	401.31	408.35	38.7	39.0	39.8	9.19	10.29	10.26
Seattle—Everett.....	365.98	417.75	413.12	39.1	39.9	38.9	9.36	10.47	10.62
Spokane.....	325.84	362.33	355.26	37.8	38.1	37.2	8.62	9.51	9.55
Tacoma.....	358.05	401.97	404.42	38.5	38.8	38.7	9.30	10.36	10.45
WEST VIRGINIA	317.58	349.36	348.17	39.5	39.7	39.7	8.04	8.80	8.77
Charleston.....	357.00	422.00	439.35	42.0	42.2	44.2	8.50	10.00	9.94
Huntington—Ashland.....	355.81	361.57	385.52	39.1	38.1	39.5	9.10	9.49	9.76
Parkersburg—Martetta.....	330.47	378.22	381.77	40.9	41.2	40.7	8.08	9.18	9.38
Wheeling.....	333.76	369.95	388.00	38.0	38.1	38.8	8.58	9.71	10.00
WISCONSIN	310.95	341.92	350.19	39.6	39.5	40.2	7.85	8.65	8.71
Appleton—Oshkosh.....	306.03	344.50	355.01	40.4	41.7	42.4	7.58	8.27	8.37
Eau Claire.....	279.31	328.97	338.87	41.0	40.2	40.9	6.81	8.18	8.28
Green Bay.....	324.67	358.24	372.61	41.6	41.3	41.2	7.81	8.67	9.04
Janeville—Beloit.....	287.22	368.08	368.92	39.4	39.2	39.5	7.29	9.38	9.34
Kenosha.....	335.87	385.45	387.26	40.2	39.1	39.4	8.36	9.87	9.83
La Crosse.....	286.27	299.33	308.54	41.0	39.8	40.5	6.98	7.53	7.63
Madison.....	308.77	329.36	333.66	38.1	38.8	38.9	8.10	8.48	8.57
Milwaukee.....	344.64	373.08	380.34	39.9	39.4	39.9	8.64	9.47	9.53
Racine.....	339.76	356.05	375.56	39.8	38.4	39.8	8.55	9.27	9.44
WYOMING	291.30	319.59	322.80	39.1	40.2	40.0	7.45	7.95	8.07
VIRGIN ISLAND	282.76	336.94	333.56	41.4	41.7	41.8	6.83	8.08	7.98

¹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.
² Subarea of New York—Northeastern New Jersey.
³ Subarea of Rochester Standard Metropolitan Statistical Area.
⁴ Area included in New York and Nassau-Suffolk combined SMSA's.
⁵ Subarea of New York Standard Metropolitan Statistical Area.
⁶ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.
⁷ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area:

Lackawanna County.
⁸ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.
⁹ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.
p = preliminary.
* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-1. Labor turnover rates in manufacturing, 1971 to date

[Per 100 employees]

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions													
1971	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972	4.5	4.1	3.7	4.0	4.1	4.9	5.4	4.7	6.1	5.4	4.8	3.7	2.7
1973	4.8	4.7	4.1	4.5	4.6	5.4	5.9	5.2	6.3	5.8	5.2	3.8	2.6
1974	4.2	4.2	3.7	4.1	4.5	5.1	5.4	4.9	5.5	4.9	3.8	2.4	1.8
1975	3.7	2.9	2.7	3.2	3.7	4.0	4.5	4.6	5.2	4.6	3.7	2.8	2.2
1976	3.9	3.9	3.5	4.2	3.9	4.5	4.8	4.2	5.1	4.4	3.5	2.9	2.2
1977	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.3	5.3	4.6	3.9	3.1	2.4
1978	4.1	3.8	3.2	3.8	4.0	4.7	4.9	4.4	5.4	4.9	4.3	3.3	2.4
1979	4.0	4.0	3.4	3.8	3.9	4.7	4.8	4.3	5.0	4.5	4.1	3.0	2.2
1980	3.5	3.8	3.3	3.5	3.1	3.4	3.9	3.8	4.5	4.3	3.6	2.7	2.2
1981		3.4	3.0	3.4	3.3	P3.4							
New hires													
1971	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972	3.3	2.6	2.5	2.8	2.9	3.7	4.2	3.5	4.5	4.3	3.9	2.9	2.1
1973	3.9	3.5	3.2	3.5	3.7	4.5	5.0	4.1	5.1	4.8	4.4	3.1	2.0
1974	3.2	3.2	2.8	3.1	3.3	4.0	4.3	3.7	4.2	3.9	2.9	1.7	1.0
1975	2.0	1.3	1.2	1.3	1.6	2.0	2.5	2.6	3.1	3.1	2.5	1.8	1.3
1976	2.6	2.1	2.1	2.7	2.6	3.1	3.6	2.9	3.6	3.2	2.5	1.9	1.3
1977	2.8	2.2	2.1	2.6	2.7	3.5	3.7	3.0	4.0	3.5	3.0	2.2	1.6
1978	3.1	2.5	2.2	2.7	2.9	3.6	3.9	3.3	4.2	3.9	3.5	2.6	1.7
1979	2.9	2.8	2.5	2.8	2.9	3.6	3.8	3.1	3.7	3.4	3.1	2.2	1.5
1980	2.1	2.4	2.2	2.3	2.0	2.1	2.4	2.1	2.5	2.6	2.2	1.6	1.2
1981		1.8	1.8	2.0	2.0	P2.2							
Recalls													
1976	1.0	1.4	1.0	1.2	1.0	1.0	0.9	1.1	1.1	0.8	0.7	0.7	0.7
1977	.9	1.2	1.3	1.1	.9	.8	.8	.9	1.0	.8	.6	.6	.6
1978	.7	1.0	.7	.8	.8	.8	.7	.8	.9	.7	.6	.5	.5
1979	.7	.9	.7	.7	.7	.8	.7	.9	.9	.8	.7	.6	.5
1980	1.1	1.1	.9	.9	.8	1.0	1.2	1.5	1.7	1.4	1.1	.9	.8
1981		1.3	1.0	1.1	1.1	P1.0							
Total separations													
1971	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972	4.3	4.1	3.5	3.9	3.8	3.9	4.2	4.8	5.5	5.5	4.4	3.8	3.7
1973	4.7	4.3	3.8	4.3	4.2	4.4	4.5	5.2	6.5	5.8	5.0	4.2	4.0
1974	4.9	5.0	4.1	4.4	4.3	4.4	4.2	4.9	6.2	5.5	5.1	5.0	5.2
1975	4.2	6.1	4.5	4.2	4.0	3.9	3.7	4.4	4.7	4.4	4.1	3.5	3.4
1976	3.8	3.7	3.0	3.5	3.6	3.4	3.6	4.3	4.9	4.7	4.1	3.4	3.5
1977	3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.3	5.1	4.9	3.8	3.4	3.4
1978	3.9	3.6	3.1	3.5	3.6	3.7	3.8	4.1	5.3	4.9	4.1	3.5	3.4
1979	4.0	3.8	3.2	3.6	3.7	3.8	3.9	4.3	5.7	4.7	4.2	3.8	3.5
1980	4.0	4.1	3.5	3.7	4.7	4.8	4.4	4.2	4.8	4.1	3.8	3.0	3.1
1981		3.6	3.1	3.2	3.1	P3.0							
Quits													
1971	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972	2.3	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	2.0	1.6
1973	2.8	2.3	2.1	2.5	2.5	2.8	2.8	2.8	4.6	4.0	3.1	2.3	1.6
1974	2.4	2.2	2.0	2.3	2.4	2.7	2.5	2.6	4.0	3.3	2.2	1.4	1.0
1975	1.4	1.1	.9	1.0	1.1	1.3	1.4	1.5	2.5	2.1	1.6	1.2	.9
1976	1.7	1.3	1.2	1.6	1.7	1.7	1.8	1.9	2.8	2.5	1.7	1.2	1.0
1977	1.8	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9	1.5	1.2
1978	2.1	1.5	1.4	1.8	2.0	2.1	2.2	2.1	3.5	3.1	2.3	1.7	1.3
1979	2.0	1.8	1.6	1.9	2.0	2.1	2.1	2.0	3.3	2.7	2.1	1.6	1.1
1980	1.5	1.6	1.5	1.6	1.5	1.5	1.4	1.4	2.2	1.9	1.4	1.1	.9
1981		1.2	1.1	1.2	1.3	P1.3							
Layoffs													
1971	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972	1.1	1.5	1.1	1.1	1.0	.9	1.1	1.7	.9	.9	1.0	1.0	1.3
1973	.9	1.1	.8	.8	.7	.7	.7	1.4	.8	.8	.8	1.1	1.6
1974	1.5	1.8	1.3	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975	2.1	4.0	2.9	2.5	2.1	1.8	1.6	2.0	1.3	1.5	1.6	1.7	1.9
1976	1.3	1.6	1.0	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977	1.1	1.7	1.4	1.0	.9	.8	.8	1.5	1.0	1.1	1.1	1.1	1.5
1978	.9	1.2	.9	.9	.8	.7	.7	1.1	.8	.8	.9	1.0	1.4
1979	1.1	1.1	.8	.8	.9	.7	.9	1.4	1.3	1.1	1.2	1.5	1.7
1980	1.7	1.6	1.2	1.3	2.3	2.5	2.2	2.0	1.7	1.4	1.5	1.4	1.6
1981		1.6	1.2	1.2	1.0	P1.0							

p=preliminary.

NOTE: See note, table C-1.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates, by industry

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Apr. 1981	May 1981 P	Apr. 1981	May 1981 P	Apr. 1981	May 1981 P	Apr. 1981	May 1981 P	Apr. 1981	May 1981 P	Apr. 1981	May 1981 P
	MANUFACTURING	3.3	3.4	2.0	2.2	1.1	1.0	3.1	3.0	1.3	1.3	1.0	1.0
24, 25, 32 39	DURABLE GOODS	3.1	3.1	1.8	1.9	1.1	.9	2.7	2.7	1.1	1.1	.9	.9
20-23, 26 31	NONDURABLE GOODS	3.7	4.0	2.4	2.6	1.0	1.1	3.6	3.4	1.6	1.6	1.2	1.1
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	5.5	5.6	3.3	3.6	2.1	1.7	4.7	4.3	2.4	2.2	1.5	1.2
242	Sawmills and planing mills	4.6	-	2.6	-	1.9	-	4.3	-	2.2	-	1.3	-
2471	Sawmills and planing mills, general	4.3	-	2.1	-	2.1	-	4.0	-	1.9	-	1.4	-
243	Millwork, plywood, and structural members	5.5	-	3.2	-	2.2	-	4.0	-	2.1	-	1.1	-
2431	Millwork	5.5	-	2.6	-	2.8	-	3.6	-	1.9	-	.8	-
244	Wood containers	5.8	-	4.1	-	1.4	-	6.3	-	3.2	-	2.3	-
245	Wood buildings and mobile homes	9.8	-	7.7	-	2.0	-	7.0	-	5.3	-	.5	-
2451	Mobile homes	11.7	-	9.3	-	2.3	-	8.2	-	6.5	-	.2	-
249	Miscellaneous wood products	4.0	-	3.2	-	.8	-	3.6	-	2.1	-	.7	-
25	FURNITURE AND FIXTURES	4.3	3.7	3.0	2.9	1.1	.7	4.0	3.7	2.0	1.8	.9	.9
251	Household furniture	4.3	-	3.3	-	.9	-	4.5	-	2.4	-	1.0	-
2511	Wood household furniture	4.1	-	3.2	-	.8	-	4.4	-	2.5	-	1.0	-
2512	Upholstered household furniture	3.8	-	2.9	-	.7	-	4.2	-	2.3	-	.7	-
2515	Mattresses and bedsprings	3.5	-	2.7	-	.8	-	4.1	-	1.6	-	1.3	-
252	Office furniture	2.6	-	1.9	-	.6	-	3.0	-	1.5	-	.8	-
254	Partitions and fixtures	5.8	-	3.7	-	1.8	-	2.9	-	1.6	-	.6	-
32	STONE, CLAY, AND GLASS PRODUCTS	4.5	4.1	2.1	2.3	2.3	1.6	3.0	3.1	1.2	1.1	1.1	1.2
322	Glass and glassware, pressed or blown	3.1	-	1.3	-	1.5	-	3.5	-	.7	-	1.9	-
3221	Glass containers	2.9	-	1.7	-	1.0	-	3.3	-	.8	-	1.6	-
3229	Pressed and blown glass, nec	3.3	-	.8	-	2.1	-	3.7	-	.5	-	2.2	-
323	Products of purchased glass	4.2	-	1.4	-	2.6	-	2.7	-	.9	-	.9	-
324	Cement, hydraulic	2.1	-	.7	-	1.3	-	.9	-	.2	-	.4	-
325	Structural clay products	6.2	-	2.9	-	3.2	-	3.8	-	2.0	-	.8	-
326	Pottery and related products	2.7	-	1.7	-	.9	-	2.9	-	1.1	-	1.0	-
327	Concrete, gypsum, and plaster products	7.4	-	3.5	-	3.8	-	3.8	-	1.9	-	1.1	-
329	Misc. nonmetallic mineral products	2.5	-	1.3	-	1.1	-	2.2	-	.7	-	.8	-
33	PRIMARY METAL INDUSTRIES	2.7	2.6	1.0	1.2	1.3	1.1	2.2	2.4	.6	.5	.8	1.1
331	Blast furnace and basic steel products	2.9	-	.6	-	1.8	-	1.9	-	.3	-	.8	-
3312	Blast furnaces and steel mills	2.9	-	.5	-	1.9	-	1.9	-	.2	-	.8	-
332	Iron and steel foundries	3.0	-	1.7	-	1.1	-	3.0	-	1.0	-	1.2	-
3321	Gray iron foundries	3.0	-	1.7	-	1.1	-	2.7	-	1.1	-	.9	-
3325	Steel foundries, nec	3.2	-	1.9	-	1.1	-	3.7	-	1.0	-	1.8	-
333	Primary nonferrous metals	1.4	-	.6	-	.6	-	.9	-	.3	-	.2	-
335	Nonferrous rolling and drawing	2.0	-	1.1	-	.8	-	1.8	-	1.1	-	.6	-
3351	Copper rolling and drawing	2.9	-	1.7	-	1.1	-	2.0	-	.7	-	.5	-
3353	Aluminum sheet, plate, and foil	1.5	-	.4	-	1.0	-	1.4	-	.2	-	.7	-
3357	Nonferrous wire drawing and insulating	1.7	-	.9	-	.6	-	1.3	-	.5	-	.2	-
336	Nonferrous foundries	3.3	-	1.7	-	1.5	-	3.1	-	1.1	-	1.2	-
3361	Aluminum foundries	3.7	-	1.7	-	1.8	-	3.0	-	1.0	-	1.1	-
34	FABRICATED METAL PRODUCTS	3.4	3.3	2.0	2.1	1.1	1.0	3.2	2.9	1.3	1.2	1.2	1.1
341	Metal cans and shipping containers	4.3	-	.9	-	3.0	-	4.1	-	.5	-	2.4	-
3411	Metal cans	4.5	-	.7	-	3.4	-	4.3	-	.4	-	2.8	-
342	Cutlery, hand tools, and hardware	3.0	-	1.6	-	.7	-	2.4	-	1.1	-	.7	-
3423, 5	Hand and edge tools, and hand saws and blades	2.5	-	1.6	-	.9	-	1.9	-	1.0	-	.4	-
3429	Hardware, nec	3.3	-	1.7	-	.6	-	2.6	-	1.2	-	.8	-
343	Plumbing and heating, except electric	2.3	-	1.5	-	.8	-	2.8	-	1.0	-	1.3	-
344	Fabricated structural metal products	3.7	-	2.5	-	1.1	-	4.0	-	1.6	-	1.6	-
3441	Fabricated structural metal	3.8	-	2.5	-	1.0	-	4.8	-	1.8	-	1.8	-
3442	Metal doors, sash, and trim	6.1	-	3.0	-	3.0	-	5.5	-	2.2	-	2.4	-
3443	Fabricated plate work (boiler shops)	2.2	-	1.7	-	.4	-	3.2	-	1.1	-	1.4	-
3444	Sheet metal work	4.0	-	3.1	-	.8	-	3.7	-	1.6	-	1.4	-
345	Screw machine products, bolts, etc.	2.6	-	1.8	-	.7	-	3.3	-	1.3	-	1.3	-
3451	Screw machine products	2.9	-	2.3	-	.5	-	3.1	-	1.5	-	.9	-
3452	Bolts, nuts, rivets, and washers	2.3	-	1.3	-	.9	-	3.5	-	1.1	-	1.6	-
346	Metal forgings and stampings	3.2	-	1.4	-	1.4	-	2.4	-	.8	-	1.0	-
3462	Iron and steel forgings	2.5	-	1.3	-	1.0	-	2.2	-	.8	-	.8	-
3465	Automotive stampings	3.5	-	.8	-	1.8	-	2.3	-	.5	-	1.2	-
3469	Metal stampings, nec	3.3	-	2.0	-	1.2	-	2.7	-	1.2	-	.8	-
347	Metal services, nec	4.5	-	3.4	-	1.1	-	4.5	-	2.1	-	1.5	-
348	Ordnance and accessories, nec	2.3	-	1.5	-	.7	-	2.1	-	.7	-	.9	-
349	Misc. fabricated metal products	3.2	-	2.1	-	1.0	-	2.5	-	1.2	-	.7	-
3494	Valves and pipe fittings	3.1	-	1.9	-	.9	-	1.8	-	.8	-	.4	-
3496	Misc. fabricated wire products	4.3	-	2.9	-	1.3	-	3.8	-	1.7	-	1.2	-

See footnotes at end of table.

ESTABLISHMENT DATA LABOR TURNOVER

D-2. Labor turnover rates, by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Apr. 1981	May 1981 P	Apr. 1981	May 1981 P	Apr. 1981	May 1981 P	Apr. 1981	May 1981 P	Apr. 1981	May 1981 P	Apr. 1981	May 1981 P
35	MACHINERY, EXCEPT ELECTRICAL	2.3	2.5	1.5	1.7	0.6	0.6	2.4	2.3	0.9	0.9	0.8	0.8
351	Engines and turbines	2.6	-	.9	-	1.1	-	2.0	-	.4	-	.6	-
3511	Turbines and turbine generator sets	1.4	-	.6	-	.1	-	1.7	-	.2	-	.3	-
3519	Internal combustion engines, nec	3.1	-	1.0	-	1.6	-	2.2	-	.5	-	.8	-
352	Farm and garden machinery	1.8	-	.8	-	.8	-	3.4	-	.7	-	2.0	-
3523	Farm machinery and equipment	1.8	-	.8	-	.8	-	3.1	-	.7	-	1.8	-
353	Construction and related machinery	2.4	-	1.8	-	.6	-	2.3	-	.9	-	.8	-
3531	Construction machinery	1.7	-	.9	-	.7	-	1.9	-	.5	-	.9	-
3533	Oil field machinery	3.5	-	3.3	-	.1	-	2.1	-	1.4	-	(1)	-
354	Metalworking machinery	1.8	-	1.2	-	.5	-	2.4	-	.8	-	.8	-
3541	Machine tools, metal cutting types	1.0	-	.8	-	.1	-	1.2	-	.5	-	.2	-
3544	Special dies, tools, jigs, and fixtures	2.5	-	1.7	-	.5	-	2.9	-	1.1	-	.8	-
3545	Machine tool accessories	1.8	-	1.1	-	.5	-	2.0	-	.9	-	.4	-
355	Special industry machinery	1.9	-	1.3	-	.5	-	2.1	-	.9	-	.7	-
3551	Food products machinery	2.0	-	1.2	-	.7	-	2.6	-	.8	-	1.4	-
3552	Textile machinery	1.9	-	1.2	-	.6	-	2.2	-	1.0	-	.7	-
356	General industrial machinery	2.0	-	1.3	-	.6	-	2.1	-	.8	-	.8	-
3561	Pumps and pumping equipment	1.9	-	1.3	-	.5	-	2.4	-	.9	-	.9	-
3562	Ball and roller bearings	1.9	-	1.2	-	.5	-	1.6	-	.6	-	.5	-
3564	Blowers and fans	2.4	-	1.9	-	.4	-	2.4	-	1.3	-	.6	-
357	Office and computing machines	2.3	-	1.8	-	.2	-	2.1	-	1.0	-	.4	-
3573	Electronic computing equipment	2.3	-	1.9	-	.2	-	2.1	-	1.0	-	.4	-
358	Refrigeration and service machinery	3.0	-	1.6	-	1.0	-	2.4	-	.8	-	.7	-
3585	Refrigeration and heating equipment	2.7	-	1.5	-	.7	-	2.0	-	.7	-	.4	-
359	Misc. machinery, except electrical	3.0	-	2.3	-	.6	-	3.1	-	1.4	-	.9	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	2.5	2.5	1.6	1.7	.5	.5	2.4	2.5	1.0	1.0	.7	.7
361	Electric distributing equipment	3.1	-	1.9	-	.7	-	2.5	-	1.0	-	.4	-
3612	Transformers	3.4	-	2.1	-	.7	-	2.8	-	1.1	-	.4	-
3613	Switchgear and switchboard apparatus	2.9	-	1.8	-	.7	-	2.3	-	1.0	-	.4	-
362	Electrical industrial apparatus	2.2	-	1.2	-	.6	-	2.1	-	.7	-	.6	-
3621	Motors and generators	2.4	-	1.3	-	.7	-	2.5	-	.7	-	.8	-
3622	Industrial controls	2.2	-	1.0	-	.8	-	1.6	-	.7	-	.2	-
363	Household appliances	3.2	-	1.3	-	1.1	-	3.2	-	.7	-	1.2	-
3632	Household refrigerators and freezers	4.4	-	.7	-	2.0	-	3.6	-	.5	-	1.4	-
3633	Household laundry equipment	2.0	-	1.0	-	.5	-	1.4	-	.3	-	.1	-
3634	Electric housewares and fans	3.5	-	2.0	-	1.0	-	4.4	-	1.2	-	2.3	-
364	Electric lighting and wiring equipment	3.1	-	2.1	-	.6	-	2.9	-	1.2	-	.9	-
3641	Electric lamps	1.7	-	.7	-	.5	-	2.0	-	.5	-	.5	-
3643	Current-carrying wiring devices	2.7	-	2.2	-	.3	-	2.5	-	1.2	-	.6	-
365	Radio and TV receiving equipment	3.3	-	1.6	-	.7	-	3.2	-	.9	-	1.2	-
3651	Radio and TV receiving sets	3.1	-	1.7	-	.4	-	2.9	-	.8	-	.9	-
366	Communication equipment	1.5	-	1.1	-	.2	-	1.7	-	.7	-	.5	-
3661	Telephone and telegraph apparatus	.8	-	.6	-	.1	-	1.8	-	.3	-	1.1	-
3662	Radio and TV communication equipment	1.8	-	1.3	-	.2	-	1.7	-	.9	-	.3	-
367	Electronic components and accessories	2.7	-	2.1	-	.4	-	2.5	-	1.3	-	.4	-
3671-3	Electronic tubes	2.1	-	1.3	-	.4	-	2.9	-	.6	-	1.2	-
3674	Semiconductors and related devices	1.7	-	1.4	-	.2	-	1.6	-	.9	-	.2	-
3679	Electronic components, nec	3.6	-	2.9	-	.5	-	3.0	-	1.8	-	.4	-
369	Misc. electrical equipment and supplies	2.6	-	1.3	-	1.0	-	2.5	-	.8	-	.9	-
3694	Engine electrical equipment	2.8	-	1.2	-	1.3	-	2.2	-	.7	-	.7	-
37	TRANSPORTATION EQUIPMENT	3.2	-	1.2	-	1.6	-	2.4	-	.8	-	.9	-
371	Motor vehicles and equipment	4.5	-	.9	-	2.9	-	2.5	-	.6	-	1.0	-
3711	Motor vehicles and car bodies	5.5	-	.7	-	4.0	-	2.4	-	.4	-	1.0	-
3713	Truck and bus bodies	2.9	-	1.4	-	1.4	-	3.7	-	.9	-	2.0	-
3714	Motor vehicle parts and accessories	3.3	-	.7	-	1.9	-	2.3	-	.6	-	.9	-
3715	Truck trailers	7.8	-	3.7	-	3.9	-	4.7	-	1.8	-	1.6	-
372	Aircraft and parts	1.4	-	1.0	-	.3	-	1.4	-	.6	-	.3	-
3721	Aircraft	1.2	-	.8	-	.2	-	1.0	-	.5	-	.2	-
3724	Aircraft engines and engine parts	1.0	-	.5	-	.2	-	1.7	-	.5	-	.4	-
3728	Aircraft equipment, nec	2.5	-	1.9	-	.5	-	2.3	-	1.0	-	.5	-
373	Ship and boat building and repairing	4.5	-	2.7	-	1.7	-	5.0	-	1.8	-	2.2	-
3731	Ship building and repairing	4.1	-	2.1	-	1.9	-	5.1	-	1.4	-	2.7	-
3732	Boat building and repairing	6.0	-	5.1	-	.9	-	4.7	-	3.2	-	.4	-
374	Railroad equipment	2.6	-	.3	-	1.7	-	3.8	-	.3	-	2.1	-
376	Guided missiles, space vehicles, parts	1.9	-	1.5	-	.1	-	1.3	-	.5	-	.2	-
3761	Guided missiles and space vehicles	2.0	-	1.6	-	.1	-	1.0	-	.5	-	.1	-
379	Miscellaneous transportation equipment	6.2	-	4.4	-	1.6	-	4.8	-	2.7	-	.9	-
38	INSTRUMENTS AND RELATED PRODUCTS	2.2	2.5	1.8	1.9	.2	.4	2.2	2.3	1.1	1.1	.4	.5
381	Engineering and scientific instruments	1.8	-	1.6	-	.1	-	1.7	-	1.0	-	.2	-
382	Measuring and controlling devices	2.3	-	1.8	-	.2	-	2.2	-	1.1	-	.5	-
3822	Environmental controls	1.8	-	1.4	-	.3	-	2.4	-	.6	-	1.3	-
3823	Process control instruments	2.3	-	2.1	-	.2	-	2.5	-	1.3	-	.4	-
3825	Instruments to measure electricity	2.6	-	1.9	-	.1	-	1.8	-	1.2	-	.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates, by Industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Apr. 1981	May 1981P	Apr. 1981	May 1981P	Apr. 1981	May 1981P	Apr. 1981	May 1981P	Apr. 1981	May 1981P	Apr. 1981	May 1981P
	INSTRUMENTS AND RELATED PRODUCTS—Con'd												
383	Optical instruments and lenses	2.1	-	2.0	-	0.0	-	1.7	-	1.2	-	0.2	-
384	Medical instruments and supplies	2.6	-	2.2	-	.3	-	2.8	-	1.5	-	.3	-
384.1	Surgical and medical instruments	3.2	-	2.8	-	.2	-	2.7	-	1.6	-	.3	-
384.2	Surgical appliances and supplies	2.2	-	1.7	-	.4	-	3.0	-	1.5	-	.3	-
385	Ophthalmic goods	2.8	-	2.2	-	.4	-	3.8	-	1.4	-	1.4	-
386	Photographic equipment and supplies	1.4	-	1.3	-	.0	-	.9	-	.4	-	.1	-
387	Watches, clocks, and watchcases	3.9	-	2.4	-	1.2	-	4.7	-	1.5	-	2.3	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	4.4	4.5	2.7	2.9	1.4	1.4	3.6	3.9	1.5	1.6	1.3	1.5
391	Jewelry, silverware, and plated ware	4.2	-	2.6	-	1.3	-	3.2	-	1.5	-	1.1	-
393	Musical instruments	3.3	-	2.0	-	.3	-	2.9	-	1.9	-	.3	-
394	Toys and sporting goods	7.0	-	4.0	-	2.6	-	3.6	-	1.6	-	1.1	-
394.2,4	Dolls, games, toys, and children's vehicles	7.4	-	4.0	-	3.0	-	3.4	-	1.6	-	1.1	-
394.9	Sporting and athletic goods, nec	6.5	-	4.0	-	2.1	-	3.8	-	1.6	-	1.1	-
395	Pens, pencils, office and art supplies	2.9	-	2.0	-	.8	-	2.8	-	1.5	-	.7	-
396	Costume jewelry and notions	4.1	-	2.6	-	1.4	-	5.9	-	1.7	-	3.1	-
399	Miscellaneous manufactures	3.0	-	1.9	-	.9	-	3.3	-	1.3	-	1.2	-
	NONDURABLE GOODS												
20	FOOD AND KINDRED PRODUCTS	5.2	6.0	3.1	3.5	1.9	2.3	4.9	4.7	1.9	1.9	2.3	2.1
201	Meat products	5.9	-	3.9	-	1.6	-	5.4	-	3.3	-	1.2	-
201.1	Meat packing plants	4.6	-	2.2	-	1.9	-	3.6	-	1.6	-	1.3	-
201.3	Sausages and other prepared meats	4.6	-	1.7	-	2.6	-	4.0	-	1.3	-	2.1	-
201.6	Poultry dressing plants	8.6	-	7.6	-	.5	-	8.7	-	6.9	-	.6	-
202	Dairy products	3.4	-	2.3	-	1.0	-	2.6	-	1.2	-	.9	-
203	Preserved fruits and vegetables	9.1	-	5.3	-	3.7	-	9.4	-	1.9	-	6.5	-
204	Grain mill products	2.8	-	1.6	-	1.1	-	4.8	-	1.5	-	2.6	-
205	Bakery products	2.6	-	2.0	-	.5	-	2.4	-	1.3	-	.6	-
205.1	Bread, cake, and related products	2.7	-	2.2	-	.4	-	2.3	-	1.4	-	.4	-
205.2	Cookies and crackers	2.2	-	1.1	-	1.1	-	2.7	-	.7	-	1.5	-
206	Sugar and confectionery products	6.0	-	1.6	-	4.3	-	6.0	-	.9	-	4.6	-
207	Fats and oils	3.0	-	1.6	-	1.4	-	3.8	-	1.3	-	2.0	-
208	Beverages	4.2	-	2.6	-	1.5	-	3.1	-	1.3	-	1.2	-
208.2	Malt beverages	3.6	-	1.2	-	2.3	-	3.2	-	.3	-	2.4	-
208.6	Bottled and canned soft drinks	4.0	-	3.4	-	.5	-	2.9	-	1.9	-	.3	-
209	Misc. foods and kindred products	7.6	-	4.2	-	3.1	-	6.2	-	2.5	-	2.6	-
21	TOBACCO MANUFACTURES	2.5	-	.6	-	1.3	-	3.9	-	.2	-	2.6	-
21.1	Cigarettes	1.5	-	.5	-	.2	-	1.3	-	.1	-	(1)	-
22	TEXTILE MILL PRODUCTS	3.6	3.9	2.7	3.0	.6	.6	3.8	3.6	2.1	2.1	.7	.7
22.1	Weaving mills, cotton	2.9	-	2.2	-	.2	-	3.8	-	1.9	-	.8	-
22.2	Weaving mills, synthetics	2.9	-	2.1	-	.4	-	3.3	-	1.8	-	.5	-
22.3	Weaving and finishing mills, wool	5.1	-	3.7	-	1.2	-	3.8	-	1.8	-	.9	-
22.4	Narrow fabric mills	4.5	-	3.9	-	.5	-	3.7	-	1.9	-	.9	-
22.5	Knitting mills	4.2	-	3.2	-	.9	-	4.0	-	2.4	-	.8	-
22.5.1	Women's hosiery, except socks	3.7	-	3.0	-	.5	-	3.6	-	2.6	-	.4	-
22.5.2	Hosiery, nec	4.5	-	4.2	-	.2	-	4.0	-	3.0	-	.2	-
22.5.3	Knit outerwear mills	4.4	-	3.0	-	1.2	-	3.7	-	2.1	-	.8	-
22.5.4	Knit underwear mills	3.5	-	3.0	-	.3	-	4.4	-	2.3	-	1.2	-
22.5.7	Circular knit fabric mills	4.3	-	2.8	-	1.3	-	5.1	-	2.7	-	1.1	-
22.6	Textile finishing, except wool	3.5	-	3.0	-	.2	-	3.6	-	1.9	-	.8	-
22.7	Floor covering mills	3.6	-	2.0	-	1.2	-	3.2	-	1.6	-	.8	-
22.8	Yarn and thread mills	4.2	-	3.4	-	.6	-	4.7	-	2.8	-	.7	-
22.9	Miscellaneous textile goods	2.9	-	2.1	-	.6	-	2.9	-	1.3	-	.8	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	5.1	5.4	3.2	3.6	1.6	1.5	5.1	5.0	2.5	2.5	1.8	1.7
23.1	Men's and boys' suits and coats	4.2	-	2.6	-	1.4	-	4.2	-	1.5	-	1.8	-
23.2	Men's and boys' furnishings	4.9	-	3.2	-	1.4	-	4.7	-	2.8	-	1.2	-
23.2.1	Men's and boys' shirts and nightwear	4.1	-	2.8	-	1.1	-	4.3	-	2.4	-	1.2	-
23.2.7	Men's and boys' separate trousers	5.0	-	3.4	-	1.4	-	4.3	-	3.0	-	.8	-
23.2.8	Men's and boys' work clothing	4.4	-	3.8	-	.5	-	4.8	-	3.3	-	.8	-
23.3	Women's and misses' outerwear	5.4	-	3.4	-	1.8	-	5.8	-	2.4	-	2.6	-
23.4	Women's and children's undergarments	4.6	-	3.7	-	.7	-	4.4	-	2.8	-	.9	-
23.4.1	Women's and children's underwear	4.8	-	3.8	-	.8	-	4.6	-	3.0	-	.9	-
23.4.2	Brassieres and allied garments	3.9	-	3.3	-	.4	-	3.4	-	1.9	-	.8	-
23.6	Children's outerwear	4.8	-	2.9	-	1.7	-	6.2	-	2.9	-	2.6	-
23.8	Misc. apparel and accessories	5.4	-	3.2	-	2.0	-	5.6	-	2.4	-	2.2	-
23.9	Misc. fabricated textile products	5.5	-	3.0	-	1.7	-	4.3	-	2.0	-	1.3	-
26	PAPER AND ALLIED PRODUCTS	2.5	3.0	1.4	1.9	.9	.8	2.3	2.3	.8	.8	.8	.8
26.1,2,6	Paper and pulp mills	1.4	-	.8	-	.4	-	1.3	-	.3	-	.6	-
26.2	Paper mills, except building paper	1.4	-	.8	-	.4	-	1.2	-	.3	-	.4	-

See footnotes at end of table.

ESTABLISHMENT DATA LABOR TURNOVER

D-2. Labor turnover rates, by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Apr. 1981	May 1981 P	Apr. 1981	May 1981 P	Apr. 1981	May 1981 P	Apr. 1981	May 1981 P	Apr. 1981	May 1981 P	Apr. 1981	May 1981 P
	PAPER AND ALLIED PRODUCTS—Continued												
263	Paperboard mills	1.7	-	1.0	-	0.5	-	1.1	-	0.5	-	0.2	-0.
264	Misc converted paper products	3.2	-	2.0	-	1.1	-	3.1	-	1.2	-	1.0	-
265	Paperboard containers and boxes	3.1	-	1.5	-	1.4	-	2.7	-	1.0	-	1.1	-
2651	Folding paperboard boxes	3.4	-	2.0	-	1.3	-	2.7	-	1.0	-	1.0	-
2653	Corrugated and solid fiber boxes	2.2	-	1.1	-	.9	-	2.3	-	.9	-	.8	-
27	PRINTING AND PUBLISHING	2.8	2.1	2.2	1.6	.5	.5	2.9	2.0	1.7	1.0	.6	.6
271	Newspapers	3.1	-	2.9	-	.1	-	2.9	-	2.3	-	.1	-
272	Periodicals	2.0	-	1.9	-	.1	-	3.6	-	1.6	-	1.5	-
273	Books	2.9	-	2.2	-	.6	-	3.3	-	1.5	-	.9	-
274	Miscellaneous publishing	2.2	-	1.8	-	.4	-	2.5	-	1.7	-	.2	-
275	Commercial printing	2.7	-	1.9	-	.7	-	2.8	-	1.3	-	.8	-
2751	Commercial printing, letterpress	3.0	-	2.0	-	1.0	-	2.7	-	1.4	-	.7	-
2752	Commercial printing, lithographic	2.5	-	1.9	-	.5	-	2.9	-	1.2	-	.9	-
278	Blankbooks and bookbinding	3.3	-	2.3	-	.9	-	3.1	-	1.6	-	.9	-
28	CHEMICALS AND ALLIED PRODUCTS	1.5	1.9	1.1	1.5	.2	.3	1.4	1.4	.6	.6	.3	.3
281	Industrial inorganic chemicals	1.2	-	.9	-	.2	-	1.3	-	.4	-	.3	-
2819	Industrial inorganic chemicals, nec	1.2	-	.9	-	.2	-	1.3	-	.4	-	.2	-
282	Plastics materials and synthetics	1.0	-	.6	-	.2	-	1.0	-	.4	-	.1	-
2821	Plastics materials and resins	1.2	-	1.0	-	.1	-	1.2	-	.6	-	.1	-
2824	Organic fibers, noncellulosic	.6	-	.3	-	.1	-	.7	-	.2	-	(1)	-
283	Drugs	1.4	-	1.1	-	.2	-	1.2	-	.5	-	.2	-
2834	Pharmaceutical preparations	1.4	-	1.1	-	.2	-	1.2	-	.5	-	.3	-
284	Soap, cleaners, and toilet goods	2.0	-	1.5	-	.4	-	1.8	-	.7	-	.5	-
2841	Soap and other detergents	1.1	-	.9	-	.2	-	1.7	-	.4	-	.8	-
2844	Toilet preparations	2.6	-	1.9	-	.5	-	1.8	-	.9	-	.3	-
285	Paints and allied products	2.5	-	2.0	-	.2	-	1.7	-	1.0	-	.2	-
286	Industrial organic chemicals	.9	-	.8	-	.1	-	1.1	-	.4	-	.1	-
287	Agricultural chemicals	2.4	-	1.9	-	.4	-	2.0	-	.9	-	.6	-
289	Miscellaneous chemical products	2.1	-	1.4	-	.6	-	1.7	-	.7	-	.4	-
29	PETROLEUM AND COAL PRODUCTS	2.6	2.8	1.8	2.1	.7	.6	1.8	2.0	.7	.7	.5	.7
291	Petroleum refining	1.7	-	1.5	-	.1	-	1.4	-	.4	-	.4	-
295	Paving and roofing materials	7.5	-	3.0	-	4.4	-	3.7	-	1.9	-	1.1	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	3.7	4.0	2.4	2.7	1.0	1.0	3.6	3.4	1.6	1.6	1.0	.9
301	Tires and inner tubes	1.4	-	.5	-	.5	-	2.0	-	.3	-	.7	-
302	Rubber and plastics footwear	4.9	-	3.7	-	1.0	-	5.0	-	2.7	-	1.1	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting	4.1	-	1.4	-	2.2	-	2.4	-	1.3	-	.6	-
306	Fabricated rubber products, nec	3.3	-	1.9	-	1.1	-	3.0	-	1.3	-	.7	-
307	Miscellaneous plastics products	4.3	-	3.0	-	1.0	-	4.1	-	2.0	-	1.2	-
31	LEATHER AND LEATHER PRODUCTS	6.1	6.8	4.1	4.8	1.7	1.7	5.5	5.9	2.8	3.1	1.8	1.8
311	Leather tanning and finishing	5.2	-	3.5	-	1.6	-	3.9	-	1.5	-	1.3	-
314	Footwear, except rubber	6.5	-	4.3	-	1.9	-	5.8	-	2.9	-	2.1	-
3143	Men's footwear, except athletic	4.9	-	3.7	-	.7	-	4.8	-	3.0	-	.8	-
3144	Women's footwear, except athletic	8.4	-	4.6	-	3.6	-	7.2	-	2.7	-	3.8	-
	NONMANUFACTURING:												
	MINING	5.7	6.7	4.4	5.3	1.0	1.0	4.6	5.2	3.1	3.4	.5	.6
10	METAL MINING	1.8	2.5	.7	1.7	.7	.5	2.0	1.7	.7	.7	.6	.3
101	Iron ores	4.3	-	.4	-	2.4	-	2.1	-	.2	-	.3	-
102	Copper ores	.9	-	.6	-	.1	-	1.1	-	.3	-	.1	-
12	BITUMINOUS COAL AND LIGNITE MINING	.5	1.7	.3	.6	.1	1.0	2.6	1.3	.3	.3	1.8	.8
13	OIL AND GAS EXTRACTION	7.2	8.5	6.1	7.1	.7	.9	5.7	6.8	4.3	4.7	.3	.6
131,2	Crude petroleum, natural gas, and natural gas liquids	2.1	-	1.7	-	.2	-	1.7	-	1.0	-	.1	-
138	Oil and gas field services	10.5	-	8.9	-	1.0	-	8.2	-	6.4	-	.4	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	5.4	4.3	2.0	2.0	3.3	2.0	2.5	2.4	1.3	1.0	.5	.9
142	Crushed and broken stone	5.4	-	1.7	-	3.6	-	2.0	-	.9	-	.9	-
144	Sand and gravel	10.0	-	3.2	-	6.6	-	3.5	-	2.0	-	.6	-
-	COMMUNICATION:												
481	Telephone communication	1.0	-	.9	-	.0	-	.8	-	.3	-	.1	-

¹ Less than 0.05.

P=preliminary.

ESTABLISHMENT DATA SEASONALLY ADJUSTED LABOR TURNOVER

D-3. Labor turnover rates in manufacturing, 1971 to date, seasonally adjusted

[Per 100 employees]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions												
1971.....	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972.....	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.5	4.5	4.6	4.7	4.9
1973.....	5.0	5.2	5.1	4.9	4.8	4.7	4.6	4.6	4.8	4.8	5.0	4.7
1974.....	4.7	4.6	4.5	4.6	4.5	4.3	4.3	4.1	4.0	3.8	3.3	3.1
1975.....	3.0	3.2	3.2	3.6	3.7	3.8	4.0	4.0	3.9	3.8	3.8	3.8
1976.....	4.2	4.1	4.2	4.1	4.0	3.8	3.9	3.8	3.7	3.6	3.8	3.8
1977.....	3.9	4.5	4.1	4.0	4.0	4.0	4.0	4.0	3.9	4.0	4.0	4.3
1978.....	4.0	3.9	3.9	4.2	4.0	4.1	4.1	4.1	4.2	4.2	4.2	4.3
1979.....	4.1	4.1	4.0	4.0	4.0	4.1	3.9	3.9	3.9	3.9	3.9	3.8
1980.....	3.9	3.8	3.7	3.2	3.1	3.4	3.5	3.6	3.7	3.7	3.6	3.5
1981.....	3.5	3.5	3.4	3.4	P3.0							
New hires												
1971.....	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.7	2.9
1972.....	3.0	3.1	3.2	3.2	3.3	3.2	3.2	3.3	3.4	3.6	3.7	4.0
1973.....	4.0	4.2	4.1	4.0	4.0	3.8	3.7	3.7	3.8	3.9	4.1	3.8
1974.....	3.8	3.7	3.6	3.5	3.5	3.3	3.3	3.1	3.0	2.7	2.3	1.9
1975.....	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.4	2.3	2.4	2.5
1976.....	2.6	2.7	2.9	2.8	2.7	2.7	2.7	2.6	2.5	2.4	2.5	2.5
1977.....	2.6	2.8	2.8	2.9	3.0	2.8	2.8	2.9	2.8	2.9	2.8	3.1
1978.....	2.9	2.8	2.9	3.1	3.0	3.1	3.1	3.1	3.2	3.3	3.3	3.3
1979.....	3.1	3.1	3.0	3.0	3.0	3.1	2.9	2.8	2.8	2.8	2.8	2.8
1980.....	2.7	2.6	2.5	2.1	1.8	1.9	2.0	2.0	2.1	2.1	2.1	2.1
1981.....	2.1	2.2	2.1	2.1	P1.9							
Recalls												
1976.....	1.1	1.0	1.1	1.0	1.0	0.9	1.0	0.9	0.8	0.9	0.9	1.0
1977.....	.9	1.3	1.0	.9	.8	.8	.8	.8	.8	.7	.8	.8
1978.....	.8	.7	.8	.8	.8	.7	.7	.7	.7	.7	.7	.7
1979.....	.7	.7	.7	.7	.8	.7	.8	.7	.8	.8	.8	.7
1980.....	.9	.9	.9	.8	1.0	1.2	1.3	1.4	1.4	1.3	1.2	1.1
1981.....	1.0	1.0	1.1	1.1	P1.0							
Total separations												
1971.....	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972.....	4.2	4.1	4.2	4.2	4.2	4.5	4.5	4.2	4.3	4.1	4.3	4.4
1973.....	4.6	4.7	4.8	4.6	4.6	4.7	4.9	4.6	4.5	4.7	4.8	4.8
1974.....	5.1	5.0	4.9	4.7	4.6	4.5	4.5	4.8	4.4	4.8	5.2	4.9
1975.....	5.2	5.1	4.6	4.6	4.6	4.3	4.0	3.9	3.8	3.8	3.8	3.5
1976.....	3.6	3.5	3.8	3.9	3.7	3.9	3.9	3.9	3.9	3.9	3.6	3.6
1977.....	3.9	4.1	3.8	3.7	3.8	3.7	3.9	4.0	3.9	3.8	3.8	4.0
1978.....	3.8	3.8	3.8	4.0	3.9	3.9	3.9	3.8	4.0	3.9	3.9	4.1
1979.....	4.0	3.9	3.9	4.0	4.0	4.0	4.0	4.3	3.9	4.0	4.1	4.0
1980.....	4.2	4.0	4.0	5.2	5.5	4.8	3.8	4.0	3.5	3.6	3.3	3.5
1981.....	3.6	3.6	3.4	3.2	P3.3							
Quits												
1971.....	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972.....	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.5	2.6
1973.....	2.8	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.9	2.9	2.7
1974.....	2.7	2.8	2.7	2.6	2.6	2.5	2.5	2.4	2.2	2.0	1.8	1.7
1975.....	1.4	1.3	1.2	1.2	1.3	1.4	1.4	1.5	1.4	1.5	1.6	1.5
1976.....	1.6	1.6	1.8	1.8	1.7	1.7	1.8	1.7	1.7	1.6	1.5	1.6
1977.....	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.9	1.9	1.9	1.9	2.0
1978.....	1.9	1.9	2.0	2.1	2.0	2.1	2.1	2.1	2.2	2.2	2.1	2.2
1979.....	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	2.0	2.0	1.8
1980.....	1.9	1.9	1.8	1.6	1.5	1.4	1.4	1.4	1.3	1.3	1.4	1.5
1981.....	1.4	1.4	1.3	1.3	P1.3							
Layoffs												
1971.....	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972.....	1.2	1.2	1.1	1.2	1.2	1.4	1.4	1.1	1.0	1.0	.9	.9
1973.....	.9	.8	.9	.8	.9	.9	1.2	1.0	.9	.8	1.0	1.1
1974.....	1.4	1.3	1.2	1.1	1.1	1.1	1.1	1.4	1.3	1.8	2.5	2.5
1975.....	2.9	3.0	2.7	2.6	2.5	2.2	1.7	1.6	1.7	1.5	1.5	1.3
1976.....	1.2	1.0	1.2	1.3	1.2	1.3	1.3	1.3	1.4	1.5	1.3	1.2
1977.....	1.3	1.5	1.2	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.0	1.1
1978.....	1.0	1.0	1.0	1.0	1.0	.9	.9	.9	.9	.9	.9	1.0
1979.....	.9	.9	.9	1.0	1.0	1.1	1.1	1.4	1.2	1.2	1.3	1.3
1980.....	1.4	1.3	1.4	2.7	3.2	2.6	1.6	1.8	1.5	1.5	1.3	1.2
1981.....	1.4	1.3	1.3	1.1	P1.3							

p=preliminary.

NOTE: Data beginning in 1976 may differ from data published earlier. See note, table C-10.

**ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER**

**ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER**

D-4. Labor turnover rates in manufacturing for selected States and areas—Continued

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Mar. 1981	Apr. 1981 ^P	Mar. 1981	Apr. 1981 ^P	Mar. 1981	Apr. 1981 ^P	Mar. 1981	Apr. 1981 ^P	Mar. 1981	Apr. 1981 ^P	Mar. 1981	Apr. 1981 ^P
ALABAMA:												
Birmingham	1.9	2.2	1.2	1.1	0.6	0.9	2.1	2.7	0.8	0.6	0.6	1.3
Mobile	6.1	5.4	2.1	3.1	4.0	2.3	4.2	4.5	1.4	1.7	2.2	2.1
ALASKA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
ARIZONA	3.5	3.7	2.9	2.9	.4	.6	2.7	3.3	1.4	1.8	.3	.4
Phoenix	3.8	3.9	3.2	3.3	.5	.5	2.8	3.3	1.5	1.8	.3	.3
ARKANSAS	5.1	5.0	3.5	3.9	1.2	.8	4.3	4.7	2.5	2.9	1.0	.9
Fort Smith	5.2	5.5	2.8	3.7	1.8	1.3	3.9	3.9	2.2	2.1	.6	.8
Little Rock—North Little Rock	3.5	3.7	2.8	3.1	.5	.4	4.4	4.1	1.6	2.0	2.6	1.3
Pine Bluff	2.6	3.1	2.3	2.6	.2	.2	1.8	3.5	1.2	1.6	.1	.9
CALIFORNIA	3.6	3.5	2.5	2.5	1.0	.9	3.5	3.6	1.4	1.5	1.3	1.3
COLORADO	2.9	2.9	2.5	2.6	.3	.3	2.5	2.7	1.5	1.5	.3	.4
Denver—Boulder	2.8	3.0	2.5	2.7	.3	.3	2.7	2.8	1.7	1.6	.3	.4
CONNECTICUT	2.2	2.0	1.5	1.4	.5	.4	2.3	2.4	1.0	1.0	.7	.5
Hartford	1.6	1.5	1.3	1.1	.3	.2	2.5	1.9	1.0	1.0	.9	.2
DELAWARE	2.4	2.7	1.3	1.4	.6	.7	2.4	2.5	.8	.8	.7	.6
Wilmington	2.1	2.1	.9	.9	.6	.4	1.8	2.4	.4	.5	.6	.8
FLORIDA	4.9	4.7	4.1	3.8	.4	.7	5.1	5.0	2.7	2.7	1.3	1.4
Fort Lauderdale—Hollywood	5.3	4.8	5.1	4.6	.2	.2	4.9	4.5	3.6	3.1	.2	.1
Jacksonville	4.7	4.9	3.2	3.8	1.4	1.1	3.4	4.4	2.1	1.9	.7	1.8
Miami	4.9	4.7	4.1	4.2	.8	.5	4.7	4.7	2.7	2.6	.8	1.1
Orlando	5.6	4.4	4.4	3.7	1.1	.6	6.0	5.7	3.1	2.8	2.1	2.0
Pensacola	1.3	1.7	1.1	1.6	.2	.1	1.6	2.0	.9	1.0	.1	.1
Tampa—St. Petersburg	4.9	4.8	4.3	4.2	.5	.5	5.1	4.8	3.1	3.3	1.0	.5
West Palm Beach—Boca Raton	4.8	3.1	4.2	2.6	.5	.4	4.4	5.6	2.9	2.3	.6	2.2
GEORGIA	3.4	3.4	2.4	2.7	.7	.5	3.2	3.9	1.8	2.1	.6	1.0
Atlanta	2.7	2.6	1.8	2.0	.7	.4	2.9	3.7	1.2	1.2	.8	1.8
HAWAII ²	2.2	1.5	1.2	.8	.8	.5	3.8	1.7	.8	.5	1.7	.5
IDAHO ³	4.3	6.5	1.9	2.2	1.9	3.9	7.4	3.2	1.2	1.4	5.1	.7
ILLINOIS:												
Chicago SMSA	3.0	2.8	1.9	1.9	.9	.7	2.5	2.6	.9	1.0	.7	.7
Davenport—Rock Island—Moline	1.7	1.9	.5	.6	1.0	.9	1.6	2.0	.4	.4	.6	.9
Decatur	2.0	1.2	.4	.3	1.4	.8	1.6	2.1	.3	.3	.7	1.3
Peoria	1.3	1.4	.5	.5	.7	.8	1.2	1.5	.3	.3	.5	.9
Rockford	2.2	2.1	1.0	1.0	1.1	1.0	2.2	2.6	.6	.7	1.1	1.3
INDIANA ⁴	3.1	2.8	1.3	1.2	1.2	1.0	2.6	2.6	.6	.7	1.2	1.1
Indianapolis ⁵	2.7	2.2	1.1	1.1	1.0	.5	2.9	2.4	.8	.7	1.1	.8
IOWA	2.3	2.5	.9	1.0	1.3	1.4	3.0	3.0	.6	.7	1.8	1.8
Cedar Rapids	1.8	2.0	.5	.5	1.0	1.4	3.8	1.8	.5	.4	2.5	1.0
Des Moines	1.6	2.7	.5	.5	1.0	1.4	9.3	3.5	.6	.4	7.5	1.9
KANSAS	3.8	3.3	2.6	2.6	1.0	.6	3.2	3.2	1.7	1.8	.8	.7
Topeka	4.0	3.5	2.4	2.5	1.1	1.0	3.1	3.7	1.2	1.1	1.0	1.1
Wichita	3.4	2.9	2.5	2.3	.6	.4	3.0	3.0	1.5	1.6	.6	.6
KENTUCKY	3.4	3.5	1.2	1.5	1.9	1.6	3.5	3.6	.7	.8	2.0	2.0
Lexington—Fayette	2.2	2.3	1.5	1.2	.6	.9	3.3	6.2	.6	.8	2.2	5.0
Louisville	1.9	2.3	.8	.8	.6	.7	2.5	2.2	.4	.1	1.0	.6
LOUISIANA:												
New Orleans	4.5	4.8	4.0	4.2	.4	.5	3.7	3.7	2.1	2.0	.3	.5
MAINE	3.9	4.3	2.4	2.7	1.2	1.4	4.0	4.4	1.6	1.7	1.7	1.9
Portland	1.8	4.2	1.4	1.7	.2	2.4	2.8	4.5	1.3	1.4	1.0	2.5
MARYLAND	3.5	3.0	1.6	1.4	1.8	1.4	2.7	2.7	.9	.8	1.1	1.2
Baltimore	3.6	2.9	1.3	1.2	2.2	1.3	2.5	2.6	.8	.7	1.0	1.2
MASSACHUSETTS	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Boston	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

D-4. Labor turnover rates in manufacturing for selected States and areas—Continued

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Mar. 1981	Apr. 1981 ^P	Mar. 1981	Apr. 1981 ^P	Mar. 1981	Apr. 1981 ^P	Mar. 1981	Apr. 1981 ^P	Mar. 1981	Apr. 1981 ^P	Mar. 1981	Apr. 1981 ^P
MICHIGAN	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Detroit	1.3	.9	.3	.2	.8	.5	1.2	1.0	.3	.2	.7	.5
Flint	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Grand Rapids	2.4	3.4	.8	.8	.9	1.5	3.2	2.3	.7	.6	2.0	1.1
Lansing—East Lansing	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
MINNESOTA	2.9	2.6	1.8	1.5	.9	1.0	2.7	2.2	1.1	1.1	1.1	.6
Minneapolis—St. Paul	2.3	2.2	1.7	1.5	.5	.7	2.3	2.0	1.0	1.1	.8	.4
MISSISSIPPI												
Jackson	2.5	2.8	1.8	2.2	.7	.5*	2.9	3.6	1.4	1.6	.8	1.6
MISSOURI	3.8	2.8	1.7	1.7	1.9	.9	2.7	2.6	1.0	1.2	1.1	.8
Kansas City	2.7	2.5	2.0	1.8	.7	.6	2.0	2.6	1.1	1.3	.4	.7
St. Louis	2.3	2.0	1.1	1.1	1.1	.8	2.4	2.1	.6	.7	1.2	.9
MONTANA	1.3	6.7	.8	1.0	.4	5.7	2.3	2.3	.7	1.4	1.4	.4
NEBRASKA	3.9	3.3	2.7	2.6	1.1	.5	3.2	3.1	1.8	1.9	.6	.4
NEVADA	6.0	6.6	5.1	5.0	.8	1.6	4.9	5.9	3.3	4.0	.5	.5
NEW HAMPSHIRE	3.6	3.7	2.8	3.0	.5	.5	3.6	3.7	2.1	2.2	.9	.8
NEW JERSEY												
Camden ⁶	3.1	2.8	1.5	1.6	1.4	1.0	2.4	2.7	.7	.7	.9	1.4
Hackensack	3.6	3.7	2.5	2.4	1.0	1.2	4.0	3.3	1.3	1.5	1.7	1.1
Jersey City	2.8	3.9	2.0	2.2	.7	1.4	2.9	2.8	1.0	.9	1.0	1.1
New Brunswick—Perth Amboy—Sayreville	3.0	2.3	1.8	1.6	.9	.5	2.5	2.8	.9	1.2	.7	.8
Newark	2.6	2.6	1.9	1.8	.6	.5	2.8	2.4	1.0	.9	.9	.7
Paterson—Clifton—Passaic	3.7	3.5	2.5	2.1	1.2	1.3	2.9	3.2	1.1	1.0	.9	1.4
Trenton	4.2	3.0	1.8	2.0	2.5	.9	3.0	2.1	.9	.9	1.5	.7
NEW MEXICO	4.5	3.7	3.8	2.9	.5	.6	3.5	4.0	1.9	1.9	.7	1.2
NEW YORK	3.4	3.1	2.0	1.9	1.2	1.0	2.8	3.1	.9	1.0	1.1	1.3
Albany—Schenectady—Troy	2.7	2.6	1.0	1.0	1.2	1.0	2.3	2.5	.5	.6	.9	.7
Binghamton	2.6	2.6	1.8	1.8	.6	.7	2.0	1.6	.7	.8	.5	.2
Buffalo	3.3	2.7	.6	.7	2.4	1.7	1.9	2.1	.4	.4	1.0	1.1
Elmira	1.9	2.8	1.0	1.7	.6	.9	2.7	2.0	.6	.7	1.3	.7
Monroe County ⁷	1.7	1.7	1.4	1.3	.2	.2	1.2	1.3	.5	.6	.3	.3
Nassau—Suffolk ⁸	3.5	3.4	2.9	2.8	.6	.6	3.2	3.2	1.8	1.8	.6	.6
New York and Nassau—Suffolk	4.1	3.5	2.8	2.4	1.2	.9	3.3	3.8	1.3	1.3	1.2	1.6
New York SMSA ⁸	4.3	3.5	2.8	2.4	1.4	1.0	3.4	4.0	1.1	1.2	1.4	1.9
New York City ⁹	4.6	3.7	2.9	2.5	1.5	1.1	3.6	4.3	1.2	1.2	1.6	2.1
Rochester	2.0	2.0	1.5	1.4	.5	.4	1.5	1.7	.6	.7	.5	.5
Syracuse	2.9	2.5	1.6	1.6	1.0	.6	2.0	2.3	.7	.8	.7	.8
Utica—Rome	2.7	2.4	1.6	1.2	.9	1.1	2.9	2.1	.8	.6	1.4	.8
Westchester County ⁷	2.5	2.1	1.9	1.5	.4	.5	1.9	2.4	.9	1.0	.6	.9
NORTH CAROLINA	3.2	3.3	2.6	2.7	.4	.4	3.0	3.5	1.8	2.1	.4	.6
Charlotte—Gastonia	4.1	4.2	3.6	3.5	.3	.5	4.8	3.8	2.6	2.8	1.0	.1
Greensboro—Winston-Salem—High Point	2.9	2.9	2.4	2.6	.3	.1	2.8	3.5	1.7	2.0	.4	.8
NORTH DAKOTA	8.4	7.0	2.2	3.2	5.9	3.4	9.6	5.0	2.1	3.2	5.5	.8
Fargo—Moorhead	7.2	9.1	3.4	4.1	3.3	4.7	11.1	3.6	1.1	1.3	7.2	.2
OHIO	3.1	2.7	.8	.9	(*)	(*)	2.5	2.1	.5	.5	1.3	1.0
Akron	1.6	1.6	.5	.6	(*)	(*)	1.4	2.0	.4	.4	.4	1.2
Canton	2.6	3.0	.8	.7	(*)	(*)	2.9	2.3	.4	.4	1.6	1.0
Cincinnati	1.4	1.9	.7	.9	(*)	(*)	1.5	1.7	.4	.5	.6	.6
Cleveland	2.6	2.1	1.0	1.0	(*)	(*)	2.5	2.0	.6	.5	1.2	.8
Columbus	2.8	3.1	1.2	1.2	(*)	(*)	3.1	1.3	.7	.6	1.9	.3
Dayton	2.0	1.9	.9	1.2	(*)	(*)	1.7	1.5	.4	.6	.7	.3
Toledo	3.4	2.3	1.0	.7	(*)	(*)	2.2	2.2	.4	.2	1.1	1.1
Youngstown—Warren	6.8	5.4	.4	.6	(*)	(*)	2.1	1.9	.3	.3	.9	.8
OKLAHOMA	5.5	5.3	4.9	4.7	.4	.4	4.6	4.9	3.3	3.6	.4	.4
Oklahoma City	5.1	4.8	4.6	4.3	.4	.3	4.2	4.4	2.9	3.1	.4	.5
Tulsa ¹⁰	5.3	5.0	4.8	4.6	.4	.2	4.0	4.5	2.8	3.1	.2	.3
OREGON ⁴	4.1	3.3	2.1	1.5	1.9	1.7	4.0	3.6	1.0	1.1	2.3	2.0
Eugene—Springfield ⁴	2.5	3.2	1.4	2.2	1.0	.8	3.3	2.9	.7	.8	2.1	1.3
Portland ⁴	4.1	2.9	2.3	1.5	1.7	1.4	3.4	3.0	1.0	.9	1.8	1.6

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER**

**ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER**

D-4. Labor turnover rates in manufacturing for selected States and areas—Continued

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Mar. 1981	Apr. 1981 ^p	Mar. 1981	Apr. 1981 ^p	Mar. 1981	Apr. 1981 ^p	Mar. 1981	Apr. 1981 ^p	Mar. 1981	Apr. 1981 ^p	Mar. 1981	Apr. 1981 ^p
PENNSYLVANIA	3.0	3.0	1.2	1.2	1.6	1.5	2.9	2.8	0.7	0.7	1.5	1.4
Allentown—Bethlehem—Easton.....	2.4	2.4	1.2	1.0	1.1	1.3	2.5	2.5	.7	.7	1.2	1.2
Altoona.....	4.3	3.0	1.0	1.2	3.3	1.8	1.9	2.5	.5	.4	1.2	1.8
Erie.....	3.1	2.8	1.4	1.5	1.3	1.1	2.1	3.8	.8	1.0	.5	1.9
Harrisburg.....	2.7	2.7	1.2	1.4	1.0	.9	2.5	3.7	.8	1.5	1.2	1.5
Johnstown.....	2.6	3.9	.4	.7	1.6	2.6	4.2	3.1	.3	.4	3.2	2.2
Lancaster.....	2.6	2.6	1.8	2.0	.7	.5	2.0	2.2	1.0	1.2	.5	.3
Northeast Pennsylvania.....	3.6	2.8	1.7	1.3	1.7	1.3	2.9	2.8	.8	.8	1.6	1.5
Philadelphia SMSA.....	2.7	2.4	1.5	1.3	1.0	.9	2.6	2.6	.8	.8	1.2	1.1
Pittsburgh.....	2.1	2.6	.6	.6	1.3	1.5	2.6	2.3	.3	.3	1.4	1.2
Reading.....	3.2	2.8	1.7	1.7	1.4	.9	3.3	2.8	1.0	1.1	1.8	1.2
Scranton.....	2.9	3.5	1.8	1.6	1.1	1.8	3.1	3.8	.8	1.2	1.9	2.2
Wilkes-Barre—Hazleton ¹¹	4.2	2.3	1.6	1.2	2.3	.9	2.7	2.1	.8	.5	1.4	1.2
Williamsport.....	1.9	1.5	.7	.8	1.1	.7	1.5	2.1	.3	.2	.7	1.3
York.....	3.6	3.2	1.8	1.9	1.7	1.2	2.5	2.9	1.0	1.2	1.0	1.2
RHODE ISLAND	3.2	3.8	2.2	2.5	.9	1.0	3.6	3.9	1.4	1.6	1.5	1.6
Providence—Warwick—Pawtucket.....	3.3	3.7	2.3	2.5	.8	.9	3.6	3.8	1.4	1.6	1.4	1.5
SOUTH CAROLINA	3.0	3.0	2.0	2.2	.7	.5	3.2	3.0	1.5	1.7	.8	.4
Charleston—North Charleston.....	3.7	3.2	3.1	2.7	.4	.5	2.8	3.5	1.4	2.1	.5	.5
Columbia.....	3.1	2.1	1.7	1.5	1.3	.5	2.8	3.0	1.5	1.4	.4	.5
Greenville—Spartanburg.....	2.6	3.0	2.1	2.3	.3	.4	3.3	3.6	1.7	1.9	.3	.4
SOUTH DAKOTA	2.5	2.4	1.5	1.2	.9	1.1	2.3	2.2	1.2	1.0	.8	.6
Sioux Falls.....	2.1	3.7	.8	1.2	1.1	2.4	2.7	2.2	.7	.9	1.9	.8
TENNESSEE:												
Memphis.....	2.8	2.7	1.5	1.9	.9	.8	1.8	2.0	.8	1.0	.4	.5
TEXAS:												
Dallas—Fort Worth.....	4.3	4.3	3.9	3.8	.2	.3	4.0	4.0	2.8	2.9	.3	.2
Houston.....	4.0	3.8	3.7	3.6	.2	.2	3.5	3.4	2.6	2.4	.1	.2
San Antonio.....	5.3	4.8	4.8	4.3	.3	.4	4.3	4.6	3.1	3.2	.1	.1
UTAH ³	3.4	3.5	2.7	2.9	.6	.6	2.9	3.5	1.8	2.2	.4	.6
Salt Lake City—Ogden ³	3.6	3.3	2.9	2.8	.5	.4	3.1	3.5	1.9	2.2	.3	.7
VERMONT	2.8	3.0	2.1	1.6	.5	1.2	2.7	2.4	1.0	1.1	1.1	.8
Burlington.....	3.0	2.0	2.4	1.6	.4	.2	1.4	1.7	.5	.6	.6	.7
Springfield.....	1.7	3.5	1.4	1.0	.1	2.5	6.2	1.8	.6	.6	5.0	.7
VIRGINIA	2.6	2.8	1.6	1.6	.7	.9	2.7	3.1	1.1	1.1	.9	1.2
Richmond.....	2.5	2.2	1.7	1.4	.1	(¹²)	1.9	1.8	.7	.6	.3	.1
WASHINGTON:												
Seattle—Everett ¹³	2.0	2.0	1.3	1.3	.6	.6	2.6	2.0	.9	.8	1.1	.7
WEST VIRGINIA	2.1	2.8	1.1	.9	.8	1.8	3.0	3.4	.6	.8	1.8	1.7
WISCONSIN	2.7	3.8	1.1	1.1	1.2	2.4	4.2	2.3	.6	.6	2.9	1.0
Milwaukee.....	2.5	2.1	1.0	.8	1.0	1.0	3.3	2.4	.5	.5	1.9	1.1
WYOMING	4.5	5.4	3.8	4.7	.7	.7	4.8	4.4	2.6	3.3	1.0	.3

¹ Excludes agricultural chemicals, and miscellaneous manufacturing.

² Excludes canned fruits, vegetables, preserves, jams, and jellies.

³ Excludes canning and preserving, and sugar.

⁴ Excludes canning and preserving.

⁵ Excludes canning and preserving, and newspapers.

⁶ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

⁷ Subarea of Rochester Standard Metropolitan Statistical Area.

⁸ Area included in New York and Nassau-Suffolk combined SMSA's.

⁹ Subarea of New York Standard Metropolitan Statistical Area.

¹⁰ Excludes new-hire rate for transportation equipment.

¹¹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

¹² Less than 0.05.

¹³ Excludes canning and preserving, printing and publishing.

^p preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover except for data for the States of California, New Mexico, and West Virginia which are collected and calculated by the Bureau of Labor Statistics (Washington Office).

STATE AND AREA UNEMPLOYMENT DATA

E-1. Labor force and unemployment by State and selected metropolitan areas

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
ALABAMA	1,660.0	1,642.6	1,645.6	141.9	138.9	143.3	8.5	8.5	8.7
Birmingham	381.2	377.0	376.5	30.7	32.1	34.2	8.1	8.5	9.1
Huntsville	139.1	137.2	138.2	13.5	11.9	12.2	9.7	8.7	8.8
Mobile	185.4	184.1	184.4	12.9	14.2	14.3	7.0	7.7	7.7
Montgomery	121.4	119.2	119.3	7.9	8.1	8.8	6.5	6.8	7.4
Tuscaloosa	52.7	52.9	52.9	4.2	4.7	5.0	8.0	8.9	9.5
ALASKA	191.2	188.4	192.3	18.3	17.0	16.6	9.5	9.0	8.7
ARIZONA	1,135.3	1,131.7	1,129.6	74.4	65.5	61.8	6.6	5.8	5.5
Phoenix	692.4	689.8	689.9	41.2	32.5	31.7	5.9	4.7	4.6
Tucson	205.5	207.6	207.1	11.7	10.1	9.5	5.7	4.9	4.6
ARKANSAS	991.6	972.5	999.1	74.2	74.3	76.6	7.5	7.6	7.7
Fayetteville-Springdale	76.5	76.9	77.2	4.6	3.5	3.5	6.0	4.5	4.6
Fort Smith	86.1	83.8	84.8	9.3	6.3	6.3	10.8	7.5	7.5
Little Rock—North Little Rock	187.5	187.0	190.7	9.9	11.8	13.1	5.3	6.3	6.9
Pine Bluff	39.8	39.2	40.3	2.4	3.4	3.8	6.0	8.7	9.3
CALIFORNIA²	11,103.0	11,358.5	11,315.3	745.0	812.7	695.8	6.7	7.2	6.1
Anaheim—Santa Ana—Garden Grove	1,080.1	1,140.7	1,139.6	46.4	47.0	40.1	4.3	4.1	3.5
Bakersfield	178.7	188.9	189.3	13.0	16.4	12.5	7.3	8.7	6.6
Fresno	261.9	266.6	271.6	24.3	28.7	22.9	9.3	10.8	8.4
Los Angeles—Long Beach ³	3,577.0	3,532.0	3,508.0	218.0	243.0	216.0	6.1	6.9	6.2
Modesto	127.1	128.6	130.6	19.2	20.9	18.4	15.1	16.2	14.1
Oxnard—Simi Valley—Ventura	230.0	241.1	238.6	14.8	16.2	13.9	6.4	6.7	5.8
Riverside—San Bernardino—Ontario	568.3	596.6	587.8	43.4	46.6	41.1	7.6	7.8	7.0
Sacramento	461.1	482.8	479.9	37.9	40.0	34.4	8.2	8.3	7.2
Salinas—Seaside—Monterey	130.2	134.4	132.5	10.8	13.0	9.2	8.3	9.7	6.9
San Diego	744.3	777.1	772.7	50.2	49.9	44.0	6.7	6.4	5.7
San Francisco—Oakland	1,588.8	1,654.4	1,649.7	85.2	90.6	79.4	5.4	5.5	4.8
San Jose	730.0	767.9	762.1	41.1	45.1	38.2	5.6	5.9	5.0
Santa Barbara—Santa Maria—Lompoc	144.5	150.4	150.9	7.5	8.2	7.3	5.2	5.4	4.8
Santa Rosa	130.1	134.4	133.9	9.8	10.8	9.1	7.5	8.1	6.8
Stockton	162.4	162.1	166.9	17.3	20.2	16.0	10.6	12.5	9.6
Vallejo—Fairfield—Napa	124.4	131.1	131.1	9.4	9.7	8.3	7.6	7.4	6.3
COLORADO	1,478.8	1,450.4	1,465.0	83.3	75.7	81.7	5.6	5.2	5.6
Denver—Boulder	876.3	860.7	873.9	44.7	39.7	44.6	5.1	4.6	5.1
CONNECTICUT	1,628.0	1,587.0	1,585.2	91.2	92.4	84.5	5.6	5.8	5.3
Bridgeport	199.4	193.6	193.1	12.2	11.6	10.5	6.1	6.0	5.4
Hartford	391.1	384.5	384.8	18.2	19.1	18.3	4.6	5.0	4.7
New Britain	78.6	77.2	76.6	4.0	4.8	4.2	5.1	6.3	5.5
New Haven—West Haven	208.6	201.0	201.6	12.6	12.8	12.3	6.1	6.4	6.1
Stamford	121.7	120.0	120.4	4.7	4.5	4.2	3.9	3.7	3.5
Waterbury	114.0	107.1	106.0	8.7	8.4	7.2	7.7	7.8	6.8
DELAWARE	281.7	282.8	285.6	17.8	20.5	19.5	6.3	7.2	6.8
Wilmington ⁴	251.3	250.6	252.8	16.3	17.6	17.1	6.5	7.0	6.8
DISTRICT OF COLUMBIA	316.0	302.4	301.0	22.4	25.5	26.5	7.1	8.4	8.8
Washington SMSA ¹	1,636.7	1,633.2	1,640.8	67.4	71.1	75.5	4.1	4.4	4.6
FLORIDA²	3,923.0	4,018.2	4,132.6	206.0	218.1	275.7	5.3	5.4	6.7
Bradenton	59.0	55.9	59.3	2.5	2.8	3.8	4.3	5.1	6.3
Daytona Beach	94.6	97.9	100.7	4.6	5.5	6.4	4.9	5.6	6.4
Fort Lauderdale—Hollywood	426.6	429.4	435.0	18.5	19.2	23.5	4.3	4.5	5.4
Fort Myers—Capo Coral	77.6	81.6	81.2	3.7	4.0	4.9	4.7	4.9	6.0
Gainesville	68.9	69.4	71.6	2.6	2.6	3.3	3.7	3.7	4.6
Jacksonville	297.4	304.8	315.8	15.5	16.8	21.7	5.2	5.5	6.9
Lakeland—Winter Haven	124.8	127.8	132.8	9.3	10.2	13.8	7.5	8.0	10.4
Melbourne—Titusville—Cocoa	106.0	107.6	111.6	6.6	7.8	9.8	6.3	7.2	8.8
Miami	718.3	733.2	752.3	39.2	40.2	49.9	5.5	5.5	6.6
Orlando	317.1	326.6	336.6	16.3	17.1	22.6	5.1	5.2	6.7
Panama City	36.6	37.3	39.0	2.8	3.1	3.8	7.8	8.2	9.9
Pensacola	107.0	110.4	115.1	5.5	5.3	6.9	5.2	4.8	6.0
Sarasota	70.1	72.2	74.2	3.2	2.9	3.6	4.6	4.0	4.9
Tallahassee	77.5	78.1	80.8	3.1	2.8	3.7	4.0	3.6	4.6
Tampa—St. Petersburg	602.8	617.7	639.0	30.3	30.9	38.4	5.0	5.0	6.0
West Palm Beach—Boca Raton	229.6	242.7	246.6	12.0	13.1	16.3	5.2	5.4	6.6

See footnotes at end of table

STATE AND AREA UNEMPLOYMENT DATA

E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
GEORGIA	2,393.0	2,408.6	2,422.7	158.5	132.0	130.9	6.6	5.5	5.4
Albany	49.1	49.9	50.3	4.0	3.4	3.4	8.1	6.8	6.7
Atlanta	976.4	985.0	992.0	54.4	46.6	47.8	5.6	4.7	4.8
Augusta	122.5	124.3	124.4	7.8	7.5	7.5	6.4	6.1	6.0
Columbus ¹	84.6	80.7	81.9	6.8	6.0	5.4	8.1	7.4	6.6
Macon	98.1	98.3	98.7	5.8	5.1	5.3	6.0	5.2	5.4
Savannah	88.2	88.4	89.1	6.2	4.9	4.8	7.1	5.6	5.4
HAWAII	398.9	405.5	405.7	17.9	21.1	21.8	4.5	5.2	5.4
Honolulu	312.8	318.4	318.5	13.5	15.3	15.7	4.3	4.8	4.9
IDAHO	424.4	424.7	429.2	34.0	31.1	26.6	8.0	7.3	6.2
Boise City	89.2	91.4	91.5	5.7	5.4	4.7	6.4	5.9	5.2
ILLINOIS²	5,402.0	5,468.5	5,473.1	393.0	447.0	445.6	7.3	8.2	8.1
Bloomington—Normal	57.8	61.8	62.2	3.2	3.7	3.7	5.5	6.0	6.0
Champaign—Urbana—Rantoul	85.8	84.7	85.5	4.6	4.6	5.1	5.3	5.4	6.0
Chicago	3,382.2	3,411.0	3,404.6	228.3	266.4	262.3	6.7	7.8	7.7
Davenport—Rock Island—Moline ¹	189.9	186.5	186.4	12.6	12.9	15.1	6.6	6.9	8.1
Decatur	59.2	61.2	60.4	6.1	6.8	6.8	10.3	11.1	11.3
Kankakee	40.5	40.5	40.3	4.1	4.4	4.4	10.2	11.0	11.0
Peoria	172.4	171.6	171.4	12.8	14.5	14.2	7.4	8.4	8.3
Rockford	133.1	132.7	132.0	11.3	12.2	11.9	8.5	9.2	9.0
Springfield	95.4	95.8	96.7	6.5	6.1	6.3	6.8	6.3	6.5
INDIANA	2,667.2	2,574.9	2,589.3	273.2	226.8	221.9	10.2	8.8	8.6
Anderson	60.6	55.1	55.8	11.1	5.5	5.9	18.3	10.0	10.5
Elkhart	70.3	65.6	66.2	9.3	5.1	5.2	13.3	7.8	7.9
Evansville ¹	147.6	145.3	146.2	10.7	10.8	10.7	7.2	7.4	7.3
Fort Wayne	197.8	190.4	191.2	19.1	17.7	17.6	9.7	9.3	9.2
Gary—Hammond—East Chicago	302.8	289.3	289.1	33.0	28.2	27.2	10.9	9.8	9.4
Indianapolis	609.5	597.9	603.9	47.8	41.8	42.6	7.8	7.0	7.1
Lafayette—West Lafayette	62.2	62.8	61.5	4.5	3.6	3.8	7.3	5.7	6.3
Muncie	59.6	57.3	57.1	7.6	6.0	5.7	12.8	10.4	10.0
South Bend	143.5	135.7	134.9	14.9	11.9	10.8	10.3	8.8	8.0
Terre Haute	83.3	80.5	79.9	6.2	7.8	7.4	7.4	9.7	9.2
IOWA	1,495.3	1,447.6	1,467.8	82.0	80.0	77.1	5.5	5.5	5.3
Cedar Rapids	92.5	89.3	89.4	5.5	6.0	5.7	6.0	6.7	6.3
Des Moines	187.8	186.4	187.5	11.0	10.5	10.7	5.9	5.6	5.7
Dubuque	47.6	45.8	45.9	3.3	4.4	3.9	6.9	9.5	8.6
Sioux City ¹	55.3	53.8	54.2	3.1	3.3	3.4	5.6	6.1	6.2
Waterloo—Cedar Falls	71.1	69.8	69.2	3.6	4.4	4.2	5.1	6.4	6.0
KANSAS	1,210.1	1,212.3	1,229.8	53.4	47.3	47.4	4.4	3.9	3.9
Lawrence	35.8	36.1	36.3	1.5	1.4	1.4	4.1	3.8	4.0
Topeka	96.9	97.0	97.6	4.8	4.7	4.8	4.9	4.9	4.9
Wichita	228.7	232.1	233.9	10.2	9.0	8.7	4.5	3.9	3.7
KENTUCKY	1,642.2	1,614.7	1,630.2	124.6	133.6	121.9	7.6	8.3	7.5
Lexington—Fayette	176.9	173.6	176.8	8.4	8.5	7.5	4.7	4.9	4.2
Louisville ¹	435.0	429.2	435.2	33.3	32.4	31.6	7.7	7.5	7.3
Owensboro	43.1	42.6	42.4	3.0	2.9	2.7	7.0	6.9	6.4
LOUISIANA	1,707.6	1,774.4	1,771.6	111.4	129.7	130.0	6.5	7.3	7.3
Alexandria	67.2	70.2	69.8	5.4	7.0	6.8	8.1	9.9	9.7
Baton Rouge	218.1	227.0	227.1	15.2	19.2	20.2	7.0	8.5	8.9
Lafayette	75.6	85.6	85.8	2.7	3.0	3.2	3.6	3.5	3.7
Lake Charles	74.1	75.2	75.0	5.7	5.6	5.7	7.7	7.5	7.6
Monroe	52.8	54.3	54.2	4.3	4.8	4.6	8.1	8.8	8.5
New Orleans	472.9	481.3	477.0	25.1	32.0	31.8	5.3	6.6	6.7
Shreveport	152.0	158.9	158.2	10.3	11.1	11.0	6.8	7.0	6.9
MAINE	498.0	492.0	500.0	37.5	39.5	36.7	7.5	8.0	7.3
Lewiston—Auburn	38.6	38.3	38.1	2.3	2.9	2.7	6.1	7.6	7.0
Portland	90.0	90.9	91.2	4.7	5.8	5.4	5.3	6.3	6.0
MARYLAND	2,153.6	2,124.4	2,140.4	130.1	134.7	133.6	6.0	6.3	6.2
Baltimore	1,074.6	1,050.6	1,054.5	74.9	76.1	75.3	7.0	7.2	7.1

See footnotes at end of table

STATE AND AREA UNEMPLOYMENT DATA

E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
MASSACHUSETTS¹	2,867.0	2,875.8	2,900.9	167.0	149.7	165.2	5.8	5.2	5.7
Boston	1,392.2	1,418.2	1,425.9	73.2	64.4	73.4	5.3	4.5	5.1
Brockton	81.6	79.7	81.0	6.0	5.3	6.0	7.4	6.6	7.4
Fall River ¹	73.1	71.7	72.2	6.6	5.1	5.5	9.0	7.1	7.6
Lawrence—Haverhill ¹	140.1	141.4	142.9	8.3	7.0	7.9	5.9	4.9	5.5
Lowell	120.6	119.9	122.1	6.9	6.1	7.3	5.7	5.1	6.0
New Bedford	80.8	80.9	81.4	6.4	6.2	6.8	7.9	7.6	8.3
Springfield—Chicopee—Holyoke	272.1	269.6	269.7	16.6	14.3	15.2	6.1	5.3	5.7
Worcester	195.5	194.0	195.1	10.1	9.7	10.4	5.2	5.0	5.4
MICHIGAN²	4,293.0	4,327.1	4,391.1	602.0	528.1	504.5	14.0	12.2	11.5
Ann Arbor	143.7	147.7	148.2	13.9	11.5	11.1	9.7	7.8	7.5
Battle Creek	80.2	80.0	82.2	9.8	8.7	8.8	12.3	10.8	10.7
Bay City	54.2	53.2	53.6	9.6	7.0	6.3	17.8	13.2	11.7
Detroit	2,025.2	2,032.6	2,054.4	298.5	260.1	246.7	14.7	12.8	12.0
Flint	230.1	231.4	234.9	50.9	31.0	31.3	22.1	13.4	13.3
Grand Rapids	312.5	322.2	330.2	28.0	27.5	27.6	9.0	8.5	8.4
Jackson	65.8	66.8	67.6	8.1	7.6	7.5	12.4	11.4	11.1
Kalamazoo—Portage	134.1	135.6	136.2	11.5	11.8	11.6	8.6	8.7	8.5
Lansing—East Lansing	235.5	245.2	249.7	31.0	25.9	25.0	13.2	10.6	10.0
Muskegon—Norton Shores—Muskegon Heights	77.2	78.5	80.2	10.7	10.8	10.7	13.8	13.8	13.4
Saginaw	102.5	102.2	102.7	18.2	11.3	10.8	17.7	11.1	10.5
MINNESOTA	2,156.9	2,163.8	2,201.4	120.2	111.2	106.8	5.6	5.1	4.9
Duluth—Superior ¹	118.7	N.A.	N.A.	9.9	N.A.	N.A.	8.4	N.A.	N.A.
Minneapolis—St. Paul	1,134.3	1,165.5	1,182.1	50.8	47.3	48.8	4.5	4.1	4.1
Rochester	55.4	56.5	57.6	2.3	2.2	2.2	4.2	3.9	3.8
St. Cloud	74.5	75.3	76.5	4.9	4.9	4.3	6.6	6.5	5.7
MISSISSIPPI	1,041.9	1,017.3	1,024.0	76.1	76.8	77.6	7.3	7.6	7.6
Jackson	155.2	152.1	151.7	8.2	8.8	8.7	5.3	5.8	5.7
MISSOURI	2,324.9	2,347.9	2,378.9	165.5	158.4	163.9	7.1	6.7	6.9
Kansas City ¹	689.2	697.1	701.5	46.2	39.0	39.6	6.7	5.6	5.6
St. Joseph	44.9	46.5	46.2	3.2	3.6	3.5	7.1	7.8	7.6
St. Louis ¹	1,093.2	1,112.6	1,123.5	85.6	87.1	90.2	7.8	7.8	8.0
Springfield	104.6	108.0	107.7	5.7	6.4	5.9	5.4	5.9	5.5
MONTANA	377.2	385.0	390.4	19.5	23.5	22.2	5.2	6.1	5.7
Billings	56.1	58.7	58.8	2.1	2.6	2.5	3.8	4.4	4.2
Great Falls	34.4	35.7	35.6	1.9	2.6	2.4	5.6	7.3	6.8
NEBRASKA	794.5	792.3	803.3	31.1	29.7	28.8	3.9	3.8	3.6
Lincoln	112.1	112.3	113.6	4.4	4.1	4.1	3.9	3.6	3.6
Omaha ¹	283.8	283.3	284.9	14.7	15.2	14.3	5.2	5.4	5.0
NEVADA	375.3	389.7	394.5	22.0	25.2	24.5	5.9	6.5	6.2
Las Vegas	207.6	215.1	216.7	14.0	16.1	15.7	6.7	7.5	7.2
Reno	106.4	109.0	110.1	4.7	5.2	5.1	4.4	4.8	4.6
NEW HAMPSHIRE	461.7	461.2	467.9	23.0	20.6	20.7	5.0	4.5	4.4
Manchester	81.0	82.0	81.9	4.0	4.2	3.7	5.0	5.1	4.5
Nashua	77.0	79.0	80.0	3.2	3.3	3.7	4.1	4.2	4.6
NEW JERSEY²	3,552.0	3,561.4	3,613.5	286.0	267.5	286.7	8.1	7.5	7.9
Atlantic City	103.1	111.8	114.9	10.3	8.9	9.7	10.0	8.0	8.5
Jersey City	247.1	241.4	244.4	30.0	28.5	31.3	12.1	11.8	12.8
Long Branch—Asbury Park	229.4	237.4	243.4	19.1	17.6	17.5	8.3	7.4	7.2
New Brunswick—Perth Amboy—Sayreville	321.7	326.0	330.6	23.3	20.9	24.1	7.3	6.4	7.3
Newark	967.6	974.5	982.1	78.6	70.1	76.5	8.1	7.2	7.8
Paterson—Clifton—Passaic	209.9	210.9	213.1	20.5	19.1	20.2	9.8	9.1	9.5
Trenton	161.3	162.2	164.2	10.8	9.1	9.7	6.7	5.6	5.9
Vineland—Millville—Bridgeton	59.9	58.6	60.3	7.0	7.9	8.4	11.8	13.4	14.0
NEW MEXICO	545.7	552.2	556.7	38.1	40.7	39.5	7.0	7.4	7.1
Albuquerque	203.7	206.6	206.0	14.8	15.1	14.3	7.2	7.3	6.9

See footnotes at end of table

STATE AND AREA UNEMPLOYMENT DATA

E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
	MAY 1980	APR. 1981	MAY 1981P	Number			Percent of labor force		
				MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
NEW YORK²	7,924.0	8,026.4	7,930.7	598.0	635.7	576.3	7.5	7.9	7.3
Albany—Schenectady—Troy	377.4	384.8	379.1	23.3	24.4	22.9	6.2	6.3	6.0
Binghamton ¹	139.5	142.3	140.2	8.8	9.6	8.7	6.3	6.7	6.2
Buffalo	571.8	579.2	569.9	60.8	53.7	49.0	10.6	9.3	8.6
Elmira	39.4	40.7	40.1	3.4	3.2	3.2	8.6	7.8	8.0
Nassau-Suffolk	1,303.2	1,332.7	1,314.2	79.4	80.1	74.8	6.1	6.0	5.7
New York	3,593.2	3,613.1	3,571.6	277.6	314.4	281.5	7.7	8.7	7.9
New York City ²	2,990.0	2,992.0	2,957.0	249.0	284.0	253.0	8.3	9.5	8.6
Poughkeepsie	106.8	110.2	108.8	5.6	6.5	6.3	5.2	5.9	5.8
Rochester	465.0	476.0	469.4	30.9	28.1	26.5	6.6	5.9	5.6
Syracuse	299.4	305.7	300.8	24.3	21.5	20.7	8.1	7.0	6.9
Utica—Rome	135.0	138.7	136.9	9.5	11.7	10.2	7.1	8.5	7.5
NORTH CAROLINA	2,740.3	2,740.8	2,770.9	172.2	164.8	160.6	6.3	6.0	5.8
Asheville	82.8	82.4	83.2	4.4	5.8	5.3	5.3	7.1	6.4
Charlotte—Gastonia	351.7	348.2	352.2	18.0	15.6	15.6	5.1	4.5	4.4
Greensboro—Winston-Salem—High Point	415.1	419.0	423.0	21.9	21.6	21.7	5.3	5.1	5.1
Raleigh—Durham	290.6	291.2	292.5	12.9	11.6	12.2	4.4	4.0	4.2
NORTH DAKOTA	320.9	322.2	332.1	14.3	17.3	15.7	4.5	5.4	4.7
Fargo—Moorhead ¹	71.9	74.1	75.5	3.6	4.2	4.0	4.9	5.7	5.3
OHIO²	5,035.0	5,076.3	5,186.5	428.0	385.0	413.8	8.5	7.6	8.0
Akron	300.3	299.2	305.9	24.5	22.2	24.7	8.1	7.4	8.1
Canton	185.0	184.1	187.1	15.6	14.3	15.3	8.5	7.8	8.2
Cincinnati ¹	670.0	N.A.	N.A.	47.2	N.A.	N.A.	7.1	N.A.	N.A.
Cleveland	926.7	935.3	950.6	68.5	63.1	67.4	7.4	6.7	7.1
Columbus	548.9	566.6	578.5	30.3	34.1	37.8	5.5	6.0	6.5
Dayton	384.0	389.1	396.8	30.1	24.8	27.8	7.8	6.4	7.0
Toledo ¹	365.6	365.9	374.4	41.1	32.1	33.7	11.2	8.8	9.0
Youngstown—Warren	237.9	229.5	234.3	30.7	21.1	21.0	12.9	9.2	9.0
OKLAHOMA	1,343.5	1,380.2	1,387.9	78.3	46.4	43.9	5.8	3.4	3.2
Oklahoma City	405.9	429.4	432.9	21.7	12.6	12.9	5.4	2.9	3.0
Tulsa	327.5	339.4	340.4	17.1	11.0	10.1	5.2	3.2	3.0
OREGON	1,290.4	1,306.4	1,318.3	113.6	125.0	119.7	8.8	9.6	9.1
Eugene—Springfield	134.4	137.0	138.5	13.9	15.1	14.4	10.3	11.0	10.4
Portland ¹	633.5	641.9	644.4	39.2	47.5	46.7	6.2	7.4	7.2
Salem	120.1	121.2	122.1	10.0	11.1	10.3	8.3	9.1	8.5
PENNSYLVANIA²	5,285.0	5,344.1	5,397.7	371.0	369.5	418.5	7.0	6.9	7.8
Allentown—Bethlehem—Easton ¹	298.2	304.2	309.3	18.2	19.8	23.4	6.1	6.5	7.6
Altoona	59.4	56.7	57.1	4.6	5.6	5.6	7.8	9.9	9.9
Erie	125.7	123.6	125.4	10.8	10.6	12.1	8.6	8.6	9.7
Harrisburg	216.2	226.7	229.0	11.3	11.1	12.6	5.2	4.9	5.5
Johnstown	108.4	105.0	106.8	11.3	12.6	14.1	10.4	12.0	13.2
Lancaster	176.0	181.4	183.1	9.2	8.0	8.9	5.2	4.4	4.9
Northeast Pennsylvania	281.9	282.5	286.5	24.4	23.8	26.8	8.7	8.4	9.4
Philadelphia ¹	2,126.7	2,121.9	2,142.2	141.5	134.8	153.3	6.7	6.4	7.2
Pittsburgh	997.1	1,023.9	1,026.8	62.7	62.9	69.4	6.3	6.1	6.8
Reading	151.5	157.6	160.2	11.4	10.6	13.2	7.5	6.8	8.2
Williamsport	51.8	52.6	53.9	6.7	5.4	7.5	12.9	10.2	14.0
York	170.9	176.1	177.6	10.5	11.2	12.8	6.1	6.4	7.2
RHODE ISLAND	463.8	466.3	463.6	31.0	35.1	31.5	6.7	7.5	6.8
Providence—Warwick—Pawtucket ¹	459.3	459.3	457.0	31.5	34.6	31.5	6.9	7.5	6.9
SOUTH CAROLINA	1,310.1	1,322.9	1,338.2	84.0	91.4	95.4	6.4	6.9	7.1
Charleston—North Charleston	156.2	159.7	162.0	10.4	10.0	10.7	6.6	6.3	6.6
Columbia	173.3	176.7	178.7	7.7	8.8	9.8	4.4	5.0	5.5
Greenville—Spartanburg	259.9	264.3	266.9	13.6	16.1	16.9	5.2	6.1	6.3
SOUTH DAKOTA	345.9	336.6	343.7	14.7	14.8	14.6	4.3	4.4	4.2
Rapid City	42.6	41.6	42.3	2.2	2.2	2.1	5.1	5.2	5.0
Sioux Falls	63.4	63.9	64.7	2.7	3.0	3.0	4.3	4.6	4.6
TENNESSEE	2,039.5	1,989.0	2,023.8	137.4	148.0	153.2	6.7	7.4	7.6
Chattanooga ¹	192.5	N.A.	N.A.	12.9	N.A.	N.A.	6.7	N.A.	N.A.
Knoxville	213.2	213.6	217.3	10.6	13.8	14.1	4.9	6.5	6.5
Memphis ¹	396.4	N.A.	N.A.	23.1	N.A.	N.A.	5.8	N.A.	N.A.
Nashville—Davidson	417.6	405.5	409.1	23.7	23.0	23.8	5.7	5.7	5.8

See footnotes at end of table

STATE AND AREA UNEMPLOYMENT DATA

E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P	MAY 1980	APR. 1981	MAY 1981P
TEXAS²	6,271.0	6,621.4	6,673.5	327.0	279.8	345.1	5.2	4.2	5.2
Amarillo	85.1	87.1	87.6	3.6	2.7	3.4	4.3	3.1	3.9
Austin	248.6	262.2	264.7	9.5	6.9	9.1	3.8	2.6	3.5
Beaumont—Port Arthur—Orange	163.7	171.7	173.6	11.4	11.4	13.8	6.9	6.7	7.9
Corpus Christi	141.1	146.1	147.6	8.4	6.7	8.9	5.9	4.6	6.0
Dallas—Fort Worth	1,486.0	1,594.8	1,604.6	67.7	59.2	71.8	4.6	3.7	4.5
El Paso	169.3	175.6	177.5	15.3	13.7	16.2	9.1	7.8	9.1
Galveston—Texas City	81.2	85.9	86.7	4.9	5.3	6.0	6.0	6.2	6.9
Houston	1,435.2	1,531.5	1,543.3	61.1	50.2	65.7	4.3	3.3	4.3
Lubbock	98.5	101.4	102.0	4.3	3.5	4.7	4.4	3.5	4.6
San Antonio	413.8	435.3	438.6	26.2	22.9	28.7	6.3	5.3	6.5
Waco	78.1	81.8	82.5	4.3	3.3	4.0	5.5	4.0	4.9
Wichita Falls	59.7	62.0	62.5	3.0	1.8	2.2	5.0	2.9	3.6
UTAH	607.7	603.7	605.5	37.5	37.9	35.0	6.2	6.3	5.8
Salt Lake City—Ogden	399.5	397.0	399.3	23.8	24.5	22.8	5.9	6.2	5.7
VERMONT	245.2	243.8	246.8	15.9	15.8	13.8	6.5	6.5	5.6
VIRGINIA	2,536.5	2,554.4	2,559.9	122.9	131.6	138.2	4.8	5.2	5.4
Lynchburg	77.0	76.9	76.7	3.4	3.7	4.0	4.4	4.8	5.3
Newport News—Hampton	165.8	171.9	173.3	8.5	8.5	9.6	5.1	4.9	5.5
Norfolk—Virginia Beach—Portsmouth ¹	327.6	330.7	333.9	18.2	18.5	19.5	5.5	5.6	5.9
Petersburg—Colonial Heights—Hopewell	61.8	59.3	59.6	3.7	3.6	4.1	6.0	6.2	6.8
Richmond	331.3	336.5	335.9	11.3	11.5	12.6	3.4	3.4	3.7
Roanoke	111.2	110.5	110.0	4.6	5.4	5.6	4.2	4.9	5.1
WASHINGTON	1,926.6	1,921.5	1,920.4	136.7	165.5	164.5	7.1	8.6	8.6
Seattle—Everett	843.5	842.4	838.0	48.6	59.8	62.1	5.8	7.1	7.4
Spokane	148.0	146.3	145.1	10.9	12.5	12.5	7.3	8.6	8.6
Tacoma	173.0	172.7	171.2	13.4	14.9	15.2	7.7	8.6	8.9
WEST VIRGINIA	770.5	773.4	766.6	64.9	103.4	92.8	8.4	13.4	12.1
Charleston	129.3	125.9	125.4	9.3	12.0	11.0	7.2	9.6	8.8
Huntington—Ashland ¹	126.0	125.7	126.1	11.3	13.4	13.2	9.0	10.6	10.5
Parkersburg—Marietta ¹	72.3	71.1	71.5	6.2	6.4	6.2	8.6	9.0	8.6
Wheeling ¹	83.5	81.5	81.7	8.0	8.5	8.0	9.6	10.4	9.7
WISCONSIN	2,417.5	2,402.2	2,415.1	185.5	172.7	155.6	7.7	7.2	6.4
Appleton—Oshkosh	150.9	148.7	148.9	10.8	10.9	9.4	7.1	7.3	6.3
Eau Claire	58.9	58.8	59.6	6.0	4.1	3.7	10.1	6.9	6.2
Green Bay	90.2	90.3	90.0	6.0	7.1	6.3	6.7	7.9	7.0
Janesville—Beloit	70.8	69.7	70.2	12.2	4.3	4.1	17.2	6.2	5.8
Kenosha	59.4	58.8	59.2	10.1	5.3	4.9	17.0	9.1	8.3
La Crosse	48.2	49.6	49.6	2.6	3.4	3.0	5.5	6.9	6.0
Madison	182.6	184.3	185.3	9.0	9.1	8.0	4.9	4.9	4.3
Milwaukee	730.4	729.3	734.7	46.3	49.8	48.1	6.3	6.8	6.5
Racine	90.3	87.9	87.9	8.2	7.6	7.0	9.1	8.7	8.0
WYOMING	226.4	233.1	241.4	8.0	11.3	10.0	3.5	4.8	4.1

¹ Includes interstate portion of area located in adjacent State.

² Data are obtained directly from the Current Population Survey. (See "Explanatory Notes" for State and Area Unemployment Data in Employment and Earnings, monthly.)

becomes available. Data refer to place of residence.

p = preliminary.

N.A. = not available.

NOTE: Estimates for 1980 have been benchmarked to 1980 Current Population Survey annual averages. Except in the 10 States and 2 areas designated by footnote 2, estimates for 1981 are provisional and will be revised when new benchmark information

SOURCE: Current Population Survey and Cooperating State Employment Security Agencies listed on inside back cover.

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 629 areas in 1,133 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

Data based on establishment records are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonagricultural wage and salary employment, average weekly hours, average hourly and weekly earnings, and labor turnover for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are based on payroll reports from a sample of establishments employing over 30 million nonagricultural wage and salary workers. The data relate to all workers, full- or part-time, who received pay during the payroll period which includes the 12th day of the month. Based on a somewhat smaller sample, labor turnover data relate to actions occurring during the entire 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 definition 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 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, and unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises. Employment in both agricultural and nonagricultural in-

dustries is included. The payroll survey covers only wage and salary employees on the payrolls of nonagricultural establishments.

Multiple jobholding. The household approach 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 persons 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 dispute, 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 mean 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 Report 601.

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 Statistical Research Service (SRS) 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 impact on differences in level and trend of the two series.

COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

Employment covered by State unemployment insurance programs. Most nonagricultural wage and salary workers are covered by the unemployment insurance programs. Beginning in January 1972, coverage was expanded to include employees of small firms and selected nonprofit activities who had not been covered previously. However, certain activities, such as interstate railroads, parochial schools, and churches are not covered by unemployment insurance whereas these included in the BLS establishment statistics. 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.

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. This report is available from BLS upon request.

These monthly surveys of the population are conducted with 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. Separate statistics are also collected and published for 14- and 15-year-olds. 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, members of the Armed Forces, and persons under 14 years of age are not covered in the regular monthly enumerations

and are excluded from the population and labor force statistics shown in this report. Data on members of the Armed Forces, who are included as part of the categories "total noninstitutional population" and "total labor force," are, however, obtained from the Department of Defense.

Each month 60,000 occupied units are eligible for interview. About 2,500 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 or 5 percent. In addition to the 60,000 occupied units, there are 11,000 sample units in an average month which are visited but found to be vacant or otherwise not to be enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from 1 month to the next and one-half to be common with the same month a year earlier.

Beginning in September 1975, the sample was enlarged by 9,000 households in order to provide greater reliability for smaller States and thus permit the publication of annual statistics for all 50 States and the District of Columbia. These supplementary households were added to the national 47,000 household sample in January 1978.

Over the period November 1978 to April 1979 the sample was again enlarged by 9,000 households. These supplementary households were added to the 56,000 household sample in January 1980.

Beginning in May 1981 the sample size was cut by about 6,000 occupied housing units. The reduction did not affect the ability to publish reliable State and local estimates and had practically no effect on the reliability of national estimates.

CONCEPTS

Employed persons comprise (a) all those who during the survey week did any work at all as paid employees, in their own business, profession, or 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 dispute, or personal reasons, whether or not they were paid by their employers for the time off, and whether or not they were seeking other jobs.

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, temporarily in the United States, who are not living on the premises of an embassy.

Excluded are persons whose only activity consisted of work around the house (such as home housework, and painting or repairing own home) or volunteer work for religious, charitable, and similar organizations.

Unemployed persons comprise all persons who did not work during the survey week, who made specific efforts to find a job within the past 4 weeks, and who were available for work during the survey week (except for temporary illness). Also included as unemployed are those who did not work at all, were available for work, and (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 wage or salary job within 30 days.

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.

Unemployed persons by 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.

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 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 wage or salary 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 pick-up point.

The civilian labor force comprises the total of all civilians classified

as employed or unemployed in accordance with the criteria described above. The "total labor force" also includes members of the Armed Forces stationed either in the United States or abroad.

The unemployment rate 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, marital status, race, occupation, industry, etc. The job-loser, job-leaver, reentrant, and new entrant rates are each calculated as a percent of the civilian labor force; the sum of the rates for the four groups thus equals the total unemployment rate.

Participation rates represent the proportion of the noninstitutional population that is in the labor force. Two types of participation rates are published. The total labor force participation rate, which is the ratio of the total labor force and the total noninstitutional population; and the civilian labor force participation rate, which is the ratio of the civilian labor force and the civilian noninstitutional population. 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 total noninstitutional population that is employed.

Not in labor force includes all civilians 16 years and over 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, and "other." The "other" group includes for the most part retired persons, those reported as too old to work, the voluntarily idle, and seasonal workers for whom the survey week fell in an "off" season and who were not reported as unemployed. Persons doing only incidental unpaid family work (less than 15 hours) are also classified as not in the labor force.

For persons not in the labor force, data on previous work experience, intentions to seek work again, desire for a job at the time of interview, and reasons for not looking for work are compiled 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, the detailed not-in-labor force questions were asked of persons in the first and fifth months in the sample, 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 civilian job lasting 2 weeks or more. The occupation and industry groups used in the CPS are defined as in the 1970 Census of Population. 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 blood or marriage.

Hours of work statistics relate to the actual number of hours worked during the survey week. For example, a person who normally works 40 hours a week but who was off on the Columbus Day holiday would be reported as working 32 hours even though he/she was 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. However, all the hours are credited to the major job.

The distribution of employment by hours worked relates to persons "at work" during the survey week. At-work data differ from data on total employment because the latter include persons in the zero-hours worked category, "with a job but not at work." Included in this latter group are persons who were on vacation, ill, involved in a labor dispute, or otherwise absent from their jobs for voluntary, noneconomic reasons.

Persons who worked 35 hours or more in the survey week are designated as working "full time," correspondingly 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 other 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. "Other reasons" include: Labor dispute, bad weather, own illness, vacation, demands of home, housework, school, no desire for full-time work, and full-time worker only during the 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.

The *full-time labor force* consists of persons working on full-time schedules, persons involuntarily working part-time (part time for economic reasons), 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. Persons with a job but not at work during the survey week are classified according to whether they usually work full or part-time.

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: (1) That unemployed persons looking for full-time work lost an average of 37.5 hours (2) that 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) that persons on part time for economic reasons lost the difference between 37.5 hours and the actual number of hours they worked.

White and black and other are terms used to describe the race of workers. The "black-and-other category," includes all persons who identified themselves in the enumeration process to be other than white. At the time of the 1970 Census of Population, 89 percent of the black-and-other population group were black; the remainder were primarily American Indians, Alaskan Natives, and Asians and Pacific Islanders. The term "black" is used in this volume when the relevant data are provided exclusively for the black population.

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. According to the 1970 Census of Population, approximately 96 percent of their population is white.

Major activity: going to school and major activity: other are terms used to describe whether the activity of young persons during the reference week is primarily one of going to school or not. Statistics on major activity are published every month in table A-7 for 16- to 21-year-olds by employment status, race, and sex, and, if unemployed, whether seeking full- or part-time work.

Vietnam-era veterans are those who served in the Armed Forces of the United States between August 5, 1964, and May 7, 1975. Tables for veterans in this volume are limited to males in the civilian noninstitutional population, i.e., veterans in institutions and females are excluded.

Nonveterans are males who never served in the Armed Forces.

The *poverty areas* classification consists of all Census geographical divisions in which 20 percent or more of the residents were poor according to the 1970 Decennial Census. Persons were classified as poor or nonpoor by using income thresholds adopted by a Federal interagency

committee in 1969. These thresholds vary by family size, composition, and residence (farm-nonfarm). 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 areas encompassed by Standard Metropolitan Statistical Areas (SMSA's). The metropolitan area total is based on the number of SMSA's as defined in the 1970 Decennial Census and does not include any subsequent additions or changes. Nonmetropolitan areas refer to the total of all areas outside SMSA's. The nonmetropolitan total is disaggregated into farm and nonfarm components.

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. Data refer to the sole or primary job of wage and salary workers. 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.

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 are 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 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 blood, marriage, or adoption; all such persons are considered as members of one family even though they may include a "subfamily," that is, a married couple or a parent-child group related by blood or marriage to the householder and sharing the living quarters. The counts of families used in this volume refer to primary families only, that is, all persons in the household who are related to the householder. Families are classified either as married-couple families or as those maintained by women or men without spouses. 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.

HISTORIC COMPARABILITY

Raised lower age limit

Beginning with data for 1967, the lower age limit for official statistics on persons in the labor force was raised from 14 to 16 years. A detailed discussion of this and other definitional changes introduced at that time including estimates of their effect on the various series, is contained in "New Definitions for Employment and Unemployment" by Robert L. Stein in the February 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*.

Noncomparability of labor force levels

Before the changes introduced in 1967, the labor force data were not comparable for three earlier periods: (1) Beginning in 1953, as a result of the introduction of data from the 1950 census into the estimation procedure, population levels were raised by about 600,000; labor force, total employment, and agricultural employment by about 350,000, primarily affecting the figures for totals and males; 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

in nonagricultural employment; other labor force categories were not appreciably affected; (3) beginning in 1962, the introduction of figures from the 1960 census reduced the population by about 50,000, labor force and employment by about 200,000; unemployment totals were virtually unchanged. In addition, beginning in 1972, information from the 1970 census was introduced into the estimation procedures, producing an increase in the civilian noninstitutional population of 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. A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment affected the white and black and other groups but had little effect on totals. The adjustment 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.

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 population estimates had its greatest impact on estimates of 20- to 24-year-old males—particularly those of the black-and-other population—but had little effect on 16 and over totals. 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 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 males and 46,000 females. 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 1978, the introduction of an expansion of the sample and revisions in the estimation procedures resulted in an increase of roughly a quarter of a million in the overall 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 determined 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 1979, the first-stage ratio estimation method was changed in the CPS estimation procedure. The new procedure is described in the Estimating Methods section. The reasoning behind the change and an indication of the differences appear in "Change in the Estimation Procedure for the Current Population Survey beginning in January 1979" in the February 1979 issue of *Employment and Earnings*. Differences between the old and new procedures exist only for metropolitan and nonmetropolitan estimates, not for the total U.S.

Changes in the occupational classification system

Beginning with 1971, the comparability of occupational employment data was affected as a result of changes in census occupational classifications introduced into the Current Population Survey (CPS).

These changes stemmed from an exhaustive review of the classification system to be used for the 1970 Census of Population. This review, the most comprehensive since the 1940 census, was to reduce the size of large groups, to be more specific about general and "not elsewhere classified" groups, and to provide information on emerging significant occupations. Differences in March 1970 employment levels tabulated on both the 1960 and 1970 classification systems ranged from a drop of 650,000 in operatives to an increase of 570,000 in service workers, much of which resulted from a shift between these two groups; the nonfarm laborers group increased by 420,000, and changes in other groups amounted to 220,000 or less.

An additional major group was created by splitting the operatives category into two: Operatives, except transport, and transport equipment operatives. Separate data for these two groups first became available in January 1972. At the same time, several changes in titles, as well as in order of presentation, were introduced; for example, the title of the managers, officials, and proprietors group was changed to "managers and administrators, except farm," since only proprietors performing managerial duties are included in the category.

Apart from the effects of revisions in the occupational classification system beginning in 1971, comparability of occupational employment data was further affected in December 1971, when a question eliciting information on major activities or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. This change resulted in several dramatic occupational shifts, particularly from managers and administrators to other groups. Thus, meaningful comparisons of occupational levels cannot always be made for 1972 and subsequent years with earlier periods. However, revisions in the occupational classification system as well as in the CPS questionnaire are believed to have had but a negligible impact on unemployment rates.

Additional information on changes in the occupational classification system of the CPS appears in "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*.

Changes in 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, occasionally the sample is expanded in terms of number of sample areas and number of sample persons. In 1953, a rotation plan was introduced in which a sample unit would be interviewed for 4 months, leave the sample for 8 months, and then return to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to the sample 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 with the existing design. A coverage improvement sample, composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction housing units that previously had no chance for selection in the CPS sample. 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.

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

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. There are no subsequent adjustments to independent benchmark data on labor force, employment, or unemployment. Therefore, revisions of the historical data are not an inherent feature of this statistical program.

The CPS estimation procedure involves weighting the data from each sample person. The basic weight, which is the inverse of the probability of the person being in the sample, is a rough measure of the number of actual persons that the sample person represents. In States supplemented in the 1978 and 1980 expansions, almost all sample persons within the same sample area have the same basic weight, but the weight may differ across sample areas. The basic weight is the same for almost all sample persons in unsupplemented States. The basic weights are then adjusted for noninterview, and the ratio estimation procedure is applied.

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondent for other reasons. This adjustment is made separately by combinations of sample areas within each State and the District of Columbia, and within these, for six groups—two race categories (white, and black and other) within three residence categories. For sample areas which are Standard Metropolitan Statistical Areas (SMSA's), these residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 4 to 5 percent depending on weather, vacations, 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 latter 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 629 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 procedure is performed at two geographic levels: First, by the four census regions (Northeast, North Central, South, and West), and second, for each of the 46 States which contains nonsample areas. The procedure corrects for the differences that existed at the time of the 1970 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. The regional adjustment is performed by metropolitan-nonmetropolitan residence and race, while the State adjustment is done by urban-rural status and race.

b. *Second-stage ratio estimate.* In this stage, the sample proportions in the categories described below are adjusted to the distribution of independent current estimates of the population in the same categories. The second-stage ratio estimate is done in order to increase the reliability of the estimates and is done 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 for the State. The second step involves "nonwhite" persons only, and is an adjustment to independent estimates of 40 age-sex-race categories across the whole Nation. (The race categories used are black and other minority races.) The third adjustment is applied to all sample persons and is a weighting to nationwide independent population estimates within 68 age-sex-race groups. The entire second-stage ratio estimation procedure is iterated six times, each time beginning at the weights developed the previous time. This iteration ensures that the sample estimates both of State population and of national age-sex-race categories, will be virtually equal to the independent population estimates.

Table A. Characteristics of the CPS sample

Time period	Number of sample areas	Households eligible		Households visited 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	330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981	629	62,200	2,800	12,000
May 1981 to present	629	57,500	2,500	11,000

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

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

The independent controls by State for the civilian noninstitutional population 16 years and over are an arithmetic extrapolation of the trend in the growth of this segment of the population from the April 1, 1970 census through the latest available July 1 estimate, adjusted as a last step to a current estimate of the U.S. population of this group. State estimates by age for July 1 are published annually in *Current Population Reports*, Series P-25. For a description of the methodology used in developing the State total, see Report 640 of that series. Descriptions of the age estimates methodology are available on request from the Chief of the Population Division, U.S. Bureau of the Census, Washington, D.C. 20233.

Prior to January 1974, the independent national controls used for the age-sex-race groups in both the second and third steps of the second-stage ratio estimation procedure were prepared by carrying forward the most recent census data (1970) after taking account of subsequent aging of the population, births, deaths, and migration between the United States and other countries. Beginning in 1974, the "inflation-deflation" method of deriving independent population controls was introduced into the CPS estimation procedures. These independent controls are prepared by inflating the most recent census counts to include the estimated net census undercount 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. The actual percent change over time in the population in any age group is preserved.

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. Almost all estimates of month-to-month change are improved by this procedure, and most estimates of levels 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. 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 errors. 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 article "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. Overall undercoverage as compared to the level of the decennial census, is about 5 percent. It is known that the CPS undercoverage varies with age, sex, and race. Generally, undercoverage is larger for males than for females and larger for black and other races than for whites. Ratio estimation to independent age-sex-race 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 group. Further, the independent population controls used have not been adjusted for undercoverage in the 1970 census, which was estimated at 2.5 percent of the population, with differentials by age, sex, and race similar to those observed in the CPS.

Additional information on nonsampling error in the CPS appears in the paper, "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 paper "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 and up-to-date discussion of various sources of error, and describes attempts to measure them in the CPS.

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

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

2. Approximately 90 percent of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average of all possible samples.

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

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations were 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 were 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 tables may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between two 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, as described below, for levels, labor force participation rates, and percentages as pertaining to 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 150,000. The 68 percent confidence interval as shown by these data is from 11,850,000 to 12,150,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in the first column of table E the standard error on a month-to-month change of 400,000 when the monthly level is approximately 12,000,000 is about 111,000.

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 on 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 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 percentages 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. For example, assume that in a given month 3.6 percent of a total of 90,771,000 employed persons are employed in agriculture. First the standard error on an estimate of 3.6 percent with a base of 90,771,000 is obtained from table H (0.09 percentage point). The appropriate factor from table I for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error

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	208	161
Employed	229	175
Unemployed	122	123
Males, 20 years and over:		
Civilian labor force	113	95
Employed	131	114
Unemployed	84	85
Females, 20 years and over:		
Civilian labor force	167	124
Employed	168	128
Unemployed	71	74
Both sexes, 16-19 years:		
Civilian labor force	80	85
Employed	85	94
Unemployed	58	72
Black and other, 16 years and over:		
Civilian labor force	73	56
Employed	84	63
Unemployed	59	62
Males, 20 years and over:		
Civilian labor force	40	34
Employed	49	43
Unemployed	40	42
Females, 20 years and over:		
Civilian labor force	62	46
Employed	62	48
Unemployed	36	40
Both sexes, 16-19 years:		
Civilian labor force	33	37
Employed	31	36
Unemployed	28	30

on the estimated 3.6 percent is then approximately $0.09 \times 1.26 = 0.1$ percentage point.

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

Illustration. For example, suppose that one is interested in the year-to-year change of a monthly unemployment rate. Let us assume that for a certain month the unemployment rate is 6.9 percent based on a total of 95,676,000 in the civilian labor force, and that a year prior to this the unemployment rate was 6.1 percent based on a total of 94,254,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.5 percent with a base of 94,965,000, is obtained from table F (0.11 percentage point). The appropriate factor then from table J is 1.40. The approximate standard error on the change of 0.8 percent is then given by $0.11 \times 1.40 = 0.15$ percentage point.

The approximate standard error of levels involving year-to-year change of quarterly estimates pertaining to CPS earnings data for per-

sons and families may be obtained by using table K in conjunction with the following formula:

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

where 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 .30 for persons (total, white, and black) and .35 for families (total, white, and black). The respective values for estimates of Hispanics are .45 and .55.

Illustration:

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

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

or about 259,000.

Table C. Standard errors for unemployment rates by major characteristics

Selected categories	Standard error of-		Selected categories	Standard error of-	
	Monthly level	Consecutive month change		Monthly level	Consecutive month change
Total (all civilian workers)	0.12	0.12			
Males, 20 years and over .....	.15	.15			
Females, 20 years and over .....	.17	.18			
Both sexes, 16-19 years .....	.57	.67			
White workers .....	.12	.12			
Black (and other) workers .....	.46	.49			
Married men, spouse present .....	.15	.16			
Married women, spouse present .....	.21	.23			
Full-time workers .....	.12	.13			
Part-time workers .....	.32	.40			
Unemployed 15 weeks and over .....	.06	.07			
OCCUPATION			OCCUPATION		
White-collar workers .....	.12	.13	Blue-collar workers—Continued		
Professional and technical .....	.18	.20	Operatives, except transport	0.44	0.50
Managers and administrators, except farm .....	.20	.23	Transport equipment operatives .....	.70	.77
Sales workers .....	.36	.41	Nonfarm laborers .....	.71	.81
Clerical workers .....	.23	.25	Service workers .....	.32	.36
Blue-collar workers .....	.24	.26	Farm workers .....	.54	.62
Craft and kindred workers .....	.33	.37	INDUSTRY		
			Nonagricultural private wage and salary workers .....	.13	.13
			Construction .....	.59	.70
			Manufacturing .....	.27	.30
			Durable goods .....	.37	.41
			Nondurable goods .....	.39	.45
			Transportation and public utilities .....	.38	.42
			Wholesale and retail trade .....	.26	.29
			Finance and service industries .....	.17	.19
			Government workers .....	.20	.23
			Agricultural wage and salary workers	1.07	1.26

Table D. Standard errors for estimates of monthly level

(In thousands)

Estimated monthly level	Characteristic ¹								
	Agricultural employment	Labor force data other than unemployment and agricultural employment data						Unemployment	
		Total or white	Black and other	Total or white, 16-19 years	Black and other, 16-19 years	Total or white males only, or females only	Black and other males only, or females only	Total or white	Black and other
50	13	10	10	10	10	9	9	10	11
100	18	14	14	14	14	13	13	14	15
500	41	32	32	32	28	30	29	31	33
1,000	57	45	44	44	33	42	40	44	46
2,000	81	64	60	60	13	59	52	62	63
4,000	113	90	79	77	-	82	60	87	83
6,000	137	109	88	84	-	99	53	106	93
8,000	-	125	90	84	-	113	16	122	-
10,000	-	139	87	76	-	124	-	135	-
15,000	-	166	36	-	-	146	-	163	-
20,000	-	188	-	-	-	161	-	182	-
30,000	-	219	-	-	-	177	-	-	-
40,000	-	249	-	-	-	178	-	-	-
50,000	-	253	-	-	-	164	-	-	-
60,000	-	260	-	-	-	131	-	-	-
70,000	-	260	-	-	-	49	-	-	-
80,000	-	254	-	-	-	-	-	-	-
100,000	-	221	-	-	-	-	-	-	-
120,000	-	143	-	-	-	-	-	-	-

¹ When determining the standard error of an estimate for a group which is a subset of the age, sex, or race groups listed, use the standard error for the next larger group, e.g., when determining the

standard error on the estimated number of employed persons age 20 to 54 years, use the column for total employed.

Table E. Standard errors for estimates of month-to-month change

(In thousands)

Estimated monthly level	Characteristic ¹							
	Labor force data other than unemployment and agricultural employment data				Unemployment			
	Total or white	Black and other	Total or white, 16-19 years	Black and other, 16-19 years	Total or white	Both sexes 16-19 years, or part-time labor force ²	Black and other	Black and other, 16-19 years
50	8	8	12	12	11	12	12	12
100	11	11	17	17	16	17	16	17
500	24	23	37	33	35	39	36	34
1,000	34	33	52	37	48	55	49	39
2,000	47	45	70	-	68	77	65	-
4,000	66	58	89	-	93	107	80	-
6,000	81	65	96	-	110	129	-	-
8,000	93	68	93	-	123	147	-	-
10,000	103	65	78	-	132	162	-	-
15,000	123	33	-	-	145	191	-	-
20,000	130	-	-	-	146	211	-	-
30,000	163	-	-	-	-	-	-	-
40,000	179	-	-	-	-	-	-	-
50,000	189	-	-	-	-	-	-	-
60,000	194	-	-	-	-	-	-	-
70,000	195	-	-	-	-	-	-	-
80,000	191	-	-	-	-	-	-	-
100,000	179	-	-	-	-	-	-	-
120,000	119	-	-	-	-	-	-	-

¹ See footnote 1, table D.

² Part-time labor force for unemployment also includes persons

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

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	2.05	2.88	4.49	6.18	7.36	8.25	8.93	9.46	9.85	10.36
100	1.45	2.04	3.18	4.37	5.20	5.83	6.32	6.69	6.97	7.33
500 .....	.65	.91	1.42	1.96	2.33	2.61	2.82	2.99	3.12	3.28
1,000 .....	.46	.65	1.01	1.38	1.65	1.84	2.00	2.12	2.21	2.32
2,000 .....	.32	.46	.71	.98	1.17	1.31	1.42	1.50	1.56	1.64
4,000 .....	.23	.32	.50	.69	.83	.92	1.00	1.06	1.10	1.16
6,000 .....	.19	.26	.41	.57	.67	.75	.82	.86	.90	.94
10,000 .....	.15	.21	.32	.44	.52	.59	.63	.67	.70	.73
20,000 .....	.11	.15	.23	.31	.37	.41	.45	.47	.49	.51
60,000 .....	.06	.08	.12	.17	.20	.23	.25	.26	.27	.28
100,000 .....	.04	.06	.10	.13	.16	.18	.19	.20	.21	.22

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

Monthly base of unemployment rate (In thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50	2.32	3.28	5.12	7.10	8.52	9.64	10.05	11.39	11.97	12.55
100	1.64	2.32	3.62	5.02	6.02	6.81	7.11	8.05	8.39	8.87
500 .....	.74	1.04	1.62	2.25	2.69	3.04	3.17	3.58	3.73	3.93
1,000 .....	.52	.73	1.15	1.59	1.90	2.15	2.24	2.52	2.62	2.74
2,000 .....	.37	.52	.81	1.12	1.34	1.51	1.57	1.76	1.83	1.89
4,000 .....	.26	.37	.57	.79	.94	1.06	1.10	1.22	1.26	1.26
6,000 .....	.21	.30	.47	.64	.76	.86	.89	.97	1.00	-
10,000 .....	.16	.13	.36	.49	.59	.65	.67	.72	-	-
20,000 .....	.11	.15	.24	.33	.39	.44	.48	.51	-	-
60,000 .....	.06	.09	.13	.18	.21	.22	.23	-	-	-
100,000 .....	.05	.07	.10	.13	.14	.14	-	-	-	-

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	2.03	2.85	4.44	6.12	7.28	8.15	8.83	9.34	9.72	10.19
100	1.43	2.02	3.14	4.32	5.15	5.77	6.24	6.61	6.88	7.21
500 .....	.64	.90	1.41	1.93	2.30	2.58	2.79	2.95	3.07	3.22
1,000 .....	.45	.64	.99	1.37	1.63	1.82	1.97	2.09	2.17	2.28
2,000 .....	.32	.45	.70	.97	1.15	1.29	1.40	1.48	1.54	1.61
4,000 .....	.23	.32	.50	.68	.81	.91	.99	1.04	1.09	1.14
6,000 .....	.19	.26	.41	.56	.66	.74	.81	.85	.89	.93
10,000 .....	.14	.20	.31	.43	.51	.58	.62	.66	.69	.73
20,000 .....	.10	.14	.22	.31	.36	.41	.44	.47	.49	.51
40,000 .....	.07	.10	.16	.22	.26	.29	.31	.33	.34	.36
60,000 .....	.06	.08	.13	.18	.21	.24	.25	.27	.28	.29
80,000 .....	.05	.07	.11	.15	.18	.20	.22	.23	.24	.25
100,000 .....	.05	.06	.10	.14	.16	.18	.20	.21	.22	.23
160,000 .....	.04	.05	.08	.11	.13	.14	.16	.17	.17	.18

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			
Labor force data other than agricultural employment data and unemployment data:			All other unemployment characteristics:		
Total	1.00	.74	Total or white:		
Males only .....	.93	.84	Total .....	.97	1.08
Females only .....	.86	.75	Both sexes, 16-19 years .....	.97	1.21
Both sexes, 16-19 years	1.00	1.18	Black and other:		
Part-time labor force	1.00	1.18	Total	1.04	1.13
			Both sexes, 16-19 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	Factors				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or males	1.30	0.89	0.80	0.72	0.70
Females or teenagers (16-19 years)	1.30	.83	.80	.58	.70
Part time	1.40	.74	.80	.46	.70
Labor force data other than agricultural employment data and unemployment data:					
Total or white	1.30	.88	.88	.67	.70
Black and other or teenagers (16-19 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 level

(In thousands)

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

Establishment Data (B, C, and D tables)

COLLECTION

Payroll reports provide current information on wage and salary employment, hours, earnings, and labor turnover in nonagricultural establishments, by industry and geographic location.

Federal-State cooperation

Under cooperative arrangements, responding establishments report employment, hours, and earnings data and/or labor turnover 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

Two types of data collection schedules are used: Form BLS 790—Report on Employment, Payroll, and Hours; and Form DL 1219—Monthly Report on Labor Turnover. The collection agency returns the schedule to the respondent each month so that the next month's data can be entered on the space allotted for that month. This "shuttle" procedure assures maximum comparability and accuracy of reporting, since the respondent can see the figures that have been reported for previous months.

Form BLS 790 provides for entry of data on the total number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, employment, payroll, and hours of production and related workers or nonsupervisory workers for the pay period which includes the 12th of the month. Form DL 1219 provides for the collection of information on the total number of accessions and separations, by type, during the calendar month, and total employment during the pay period which includes the 12th of the month.

CONCEPTS

Industrial classification

Establishments reporting on Form BLS 790 and Form DL 1219 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, earnings, and labor turnover for the Nation and for most States and areas are classified in accordance with the 1972 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget. The BLS tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sectors.

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 in households. Salaried officers of corporations are included. Government employment covers only civilian employees; military personnel are excluded. Employees of the Central Intelligence and National Security Agencies are also excluded.

Persons on establishment payrolls who are on paid sick leave (when pay is received directly from the firm), on paid holiday or 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, or on strike for the entire period or who were hired but have not yet reported during the period.

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. An exception to the definitions below are the statistics on hours and earnings of Federal Government employees, reported in table C-3, which are for all Federal employees, both supervisory and nonsupervisory, for the entire calendar month. When the pay period reported is longer than 1 week, figures are reduced to a weekly basis.

Production and related workers include working supervisors and all nonsupervisory workers (including group leaders and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), and 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, laborers, etc., whether working at the site of construction or 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, vacations, 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 non-

supervisory workers. Included are hours paid for holidays and vacations, and for sick leave when pay is received directly from the firm.

Overtime hours covers 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 includes 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. *Gross average hourly and weekly 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 the production worker, construction worker, or nonsupervisory employee definitions.

Gross average weekly earnings estimates are derived by multiplying average weekly hours estimates by average hourly earnings estimates. Therefore, weekly earnings are affected not only by changes in gross average hourly earnings but also by changes in the length of the workweek. Monthly variations in such factors as 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 gross 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.

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.

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

Railroads 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 Commis-

sion and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. Gross 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. Gross average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

Spendable average weekly earnings. Spendable average weekly earnings in current dollars are obtained by deducting estimated Federal social security and income taxes from average weekly earnings. The amount of income tax liability depends on the number of dependents supported by the worker, the worker's marital status and level of gross income. To reflect these variables, the Bureau calculates two sets of spendable earnings series based on the assumptions that the worker earned the gross average weekly earnings and was taxed at the rates applicable to either (1) a single worker with no dependents, or (2) a married worker with three dependents who files a joint return. The computations are based on gross average weekly earnings for all production or nonsupervisory workers in the industry division excluding other income and income earned by other family members.

The series reflect the spendable earnings of only those workers, with no dependents or three dependents, whose gross weekly pay approximates the average earnings indicated for all production and nonsupervisory workers. It does not reflect, for example, the average earnings of all married workers with three dependents; such workers, in fact, have higher gross average earnings than workers with no dependents.

Since part-time as well as full-time workers are included, and since the proportion of part-time workers has been rising, the series understates the increase in earnings for full-time workers. As noted, "fringe benefits" are not included in the earnings. For a more complete discussion of the uses and limitations of these series, see the article by Paul M. Schwab, "Two Divergent Measures of Purchasing Power," in the *Monthly Labor Review* for August 1979. Reprints of this article are available upon request from the Bureau of Labor Statistics.

"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).

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. Prior to January 1956, these data were based on the application of adjustment factors to gross average hourly earnings (as described in the *Monthly Labor Review*, May 1950, pp. 537-40). Both methods eliminate only the earnings due to overtime paid for at 1½ times the straight-time rates. No adjustment is made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

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

Indexes of diffusion of changes in number of employees on nonagricultural payrolls. These indexes measure the percent of industries which posted increases in employment over the specified time

span. The indexes are calculated from 172 unpublished seasonally adjusted employment series (two-digit nonmanufacturing industries and three-digit manufacturing industries) covering all nonagricultural payroll employment in the private sector. A more detailed discussion of these indexes appears in "Introduction of Diffusion Indexes," in the December 1974 issue of *Employment and Earnings*.

Labor turnover

Labor turnover is the gross movement of wage and salary workers into and out of employed status with respect to individual establishments. This movement, which relates to a calendar month, is divided into two broad types: *Accessions* (new hires and rehires) and *separations* (terminations of employment initiated by either employer or employee). Each type of action is cumulated for a calendar month and expressed as a rate per 100 employees. The data relate to all employees, whether full- or part-time, permanent or temporary, including executive, office, sales, other salaried personnel, and production workers. The inclusion of transfers to or from another establishment of the company as separations and accessions began January 1959.

Accessions are the total number of permanent and temporary additions to the employment roll, including both new and rehired employees.

New hires are temporary or permanent additions to the employment roll of persons who have never before been employed in the establishment (except employees transferring from another establishment of the same company) or of former employees not recalled by the employer.

Recalls are permanent or temporary additions to the employment roll of persons specifically recalled to a job in the same establishment of the company following a period of layoff lasting more than 7 consecutive days. (The collection of recalls, as a separate item, began January 1976.)

Other accessions are all additions to the employment roll which are not classified as new hires or recalls. These include transfers from other establishments of the company and former employees returning from military leave or other absences without pay who have been counted as separations. Data on other accessions are not published separately but are included in total accessions.

Separations are terminations of employment during the calendar month and are classified according to cause—quits, layoffs, and other separations—defined as follows:

Quits are terminations of employment initiated by employees, failure to report after being hired (if counted as new hires previously), and unauthorized absences, if, on the last day of the month, the person has been absent more than 7 consecutive calendar days.

Layoffs are suspensions without pay lasting or expected to last more than 7 consecutive calendar days, initiated by the employer without prejudice to the worker.

Other separations, which are not published separately but are included in total separations, are terminations of employment because of discharge, permanent disability, death, retirement, transfer to another establishment of the company, and entrance into the Armed Forces for a period expected to last more than 30 consecutive calendar days.

Relationship of labor turnover to employment series

Month-to-month changes in total employment in manufacturing industries reflected by labor turnover rates are not strictly comparable with the changes shown in the Bureau's employment series for the following reasons: (1) Accessions and separations are computed for the entire calendar month; the employment reports refer to the pay period which includes the 12th of the month; and (2) employees on strike are not counted as turnover actions although such employees are excluded from the employment estimates if the work stoppage extends through the report period.

ESTIMATING METHODS

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

The "link relative" technique

From a sample composed of establishments reporting for both the previous and current months, the ratio of current month employment to that of the previous month is computed. This is called a "link relative." The estimates of employment (all employees, including production and nonproduction workers together) for the current month are obtained by multiplying the estimates for the previous month by these "link relatives." In addition, small bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past experience. 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 nonsupervisory worker-data are used to weight the hours and earnings 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. The labor turnover estimates are stratified by industry only.

Benchmark adjustments

Employment estimates are compared periodically with comprehensive counts of employment which provide "benchmarks" for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1980 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by States agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonagricultural payrolls in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the 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 1980 benchmark adjustment is shown in table M.

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

THE SAMPLE

Design

The sampling plan used in the current employment statistics program is known as "sampling proportionate to average size of establishment." This design is an optimum allocation design among strata

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

Item	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and, where stratified, individual cells)
Monthly data		
All employees	All-employee estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months. ¹	Sum of all-employee estimates for component cells.
Production or nonsupervisory workers, women employees	All-employee estimate for current month multiplied by (1) ratio of production or nonsupervisory workers to all employees in sample establishments for current month, (2) estimated ratio of women to all employees. ²	Sum of production- or nonsupervisory-worker estimates, or estimates of women employees, for component cells.
Gross average weekly hours	Production- or nonsupervisory-worker hours divided by number of production or nonsupervisory workers. ²	Average, weighted by production- or nonsupervisory-worker employment, of the average weekly hours for component cells.
Average weekly overtime hours	Production-worker overtime hours divided by number of production workers. ²	Average, weighted by production-worker employment, of the average weekly overtime hours for component cells.
Gross average hourly earnings	Total production- or nonsupervisory-worker payroll divided by total production- or nonsupervisory-worker hours. ²	Average, weighted by aggregate hours, of the average hourly earnings for component cells.
Gross average weekly earnings	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Labor turnover rates	The number of particular actions (e.g., quits) in reporting establishments divided by total employment in those firms. The result is multiplied by 100.	Average, weighted by employment, of the rates for component cells.
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.
Gross 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
Gross 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 by aggregate payrolls divided by annual aggregate hours.
Gross average weekly earnings	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Labor turnover rates	Annual average aggregate (of each labor turnover action) divided by annual average employment.	Annual average aggregate (of each labor turnover action) divided by annual average employment.

¹ The estimates result from multiplying the product shown by bias adjustment factors to compensate for the underrepresentation of newly formed enterprises in the sample and other bias sources.

² The sample production-worker ratio, women-worker ratio, average weekly hours, average overtime hours, and average hourly earnings are

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

Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1980

Industry division	Benchmark, March 1980	Estimate, March 1980	Percent difference
Total	90,253,000	90,316,000	0.1
Mining	990,000	996,000	.6
Construction	4,087,000	4,150,000	1.5
Manufacturing	20,722,000	20,793,000	.3
Transportation and public utilities	5,127,000	5,143,000	.3
Wholesale and retail trade	20,068,000	20,226,000	.7
Finance, insurance, and real estate	5,090,000 ¹	5,085,000	-.1
Services	17,636,000	17,478,000	-.9
Government	16,533,000	16,445,000	-5

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 large percent of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for 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 employment and labor turnover statistics programs, with their emphasis on producing timely data at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after the reference period, and, at a somewhat later date, statistics in considerably greater industrial detail.

Coverage

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

Table N. Approximate size and coverage of BLS employment and payrolls sample, March 1980¹

Industry division	Employees		
	Number of establishments in sample	Number reported	Percent of total
Total	166,300	34,270,000	38
Mining	2,100	369,000	37
Construction	16,100	739,000	18
Manufacturing	44,200	11,175,000	54
Transportation and public utilities:			
Railroad transportation (ICC)	40	482,000	90
Other transportation and public utilities	7,600	2,623,000	57
Wholesale and retail trade	41,100	3,288,000	16
Finance, insurance, and real estate	11,200	1,826,000	36
Services	25,500	2,516,000	20
Government:			
Federal ²	4,500	2,869,000	100
State and local	13,900	8,383,000	61

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

² National estimates of Federal employment by agency are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 4,500 reports covering about 55 percent of employment in Federal establishments.

Table O. Approximate size and coverage of BLS labor turnover sample, March 1980

Industry	Employees	
	Number reported	Percent of total
Total	9,252,000	40
Manufacturing	8,461,000	41
Mining	227,000	23
Telephone communication	744,000	70

Reliability of the employment estimates

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 cumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises

from improvements in the quality of the benchmark data. Table P presents the average percent revisions of the six most recent benchmarks (excluding the March 1973 adjustment) for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

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

(In percent)

Industry division	Average benchmark revision in estimates of employment ¹	Relative errors ²	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment	0.3	-	-
Total private .....	.3	0.1	0.2
Mining	1.0	.5	.5
Construction	1.7	.2	.3
Manufacturing .....	.3	.1	.1
Durable goods .....	.4	.1	.1
Nondurable goods .....	.4	.1	.1
Transportation and public utilities .....	.4	.7	.4
Trade .....	.4	.1	.2
Wholesale .....	.7	.2	.3
Retail .....	.4	.2	.2
Finance, insurance, and real estate .....	.5	.2	.4
Services .....	.7	.4	.8
Government ³ .....	.5	-	-

¹ The average percent revision in employment for the following benchmarks: 1970, 1971, 1974, 1978, 1979 and 1980.

² Relative errors relate to March 1971 data.

³ Estimates for government are based on a total count for Federal Government and, prior to the March 1979 revision, samples for State and local government benchmarked to a quinquennial census of government conducted by the Bureau of the Census.

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 P and for individual industries with the specified number of employees in table Q. 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 Q.

Table Q. Root-mean-square errors of differences between benchmarks and estimates of employment and average relative errors for average weekly hours and average hourly earnings

Size of employment estimate	Root-mean-square error of employment estimates ¹	Relative errors ² (in percent)	
		Average weekly hours	Average hourly earnings
50,000	2,100	0.9	1.5
100,000	4,400	.7	1.1
200,000	7,100	.5	.9
500,000	15,200	.4	.8
1,000,000	17,100	.3	.5
2,000,000	28,500	.3	.5

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to March 1971 data.

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

Table R. Errors of preliminary employment estimates

Category	Root-mean-square error of—	
	Monthly level	Month-to-month change
INDUSTRY DIVISIONS		
Total nonagricultural employment	83,000	69,000
Mining	5,000	5,000
Construction	19,000	16,000
Manufacturing	29,000	27,000
Durable two-digit industries	3,700	3,500
Nondurable two-digit industries	2,500	2,500
Transportation and public utilities	14,000	14,000
Wholesale and retail trade	30,000	27,000
Finance, insurance, and real estate	8,000	7,000
Services	31,000	26,000
Government	46,000	36,000
DETAILED INDUSTRIES: SIZE OF EMPLOYMENT ESTIMATE		
50,000	300	400
100,000	700	700
200,000	1,100	1,100
500,000	3,900	4,100
1,000,000	3,800	3,900
2,000,000	6,000	6,100

NOTE: Division level data are based on differences from January 1975 through December 1980. Detailed industry data are based on differences from August 1978 through June 1979.

STATISTICS FOR STATES AND AREAS

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

all areas are published each year in the issue of *Employment and Earnings* that contains State and area annual averages (usually the May issue). Changes in definitions are noted as they occur. Additional industry detail may be obtained from the State agencies listed on the inside back cover of each issue. These statistics are based on the same establishment reports used by BLS for preparing national estimates. For employment, the sum of the State figures may differ slightly from the equivalent official U.S. totals on a national basis, because some States have more recent benchmarks than others and because of the effects of differing industrial and geographic stratification.

For the States and the areas shown in the B and C sections of this periodical, all the annual average data for the detailed industry statistics currently published by each cooperating State agency are presented (from the earliest date of availability of each series) in a summary volume published annually by the BLS.

PRODUCTIVITY DATA

Tables C-10, C-11, and C-12 are compiled by the Bureau of Labor Statistics from establishment data and from estimates of compensation and gross national product supplied by the U.S. Department of Commerce and the Federal Reserve Board.

Definitions

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

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

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 sup-

plementary payments for the self-employed, except for nonfinancial corporations, in which there are no self-employed.

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

Unit labor costs measure the labor compensation cost required to produce one unit of output and are derived by dividing compensation per hour by output per hour. *Unit nonlabor payments* include profits, depreciation, interest, and indirect taxes per unit of output. They are computed by subtracting compensation of all persons from the current-dollar gross national product and dividing by output. In these tables, unit nonlabor costs contain all the components of unit nonlabor payments except unit profits. *Unit profits* include corporate profits and inventory valuation adjustments per unit of output.

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

Notes on the data

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

Manufacturing data have been revised to reflect revisions in the Federal Reserve Board Index of Industrial Production. 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.

State and Area Unemployment Data (E 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 Comprehensive Employment and Training Act, the Public Works Employment Act, and the Public Works and Economic Development Act.

ESTIMATING METHODS

Labor force and unemployment in 10 large States: New York, California, Illinois, Ohio, New Jersey, Pennsylvania, Michigan, Texas, Massachusetts, and Florida; and two areas: Los Angeles-Long Beach metropolitan area and New York City, are sufficiently reliable to be used directly from the CPS. For a description of the CPS concepts see "Household Data," above.

Monthly employment and unemployment estimates in the remaining 40 States and 214 labor market areas are prepared in several stages.

1. *Preliminary estimate—employment*: The total employment estimate is based primarily on data from the survey of establishments which produces an estimate of payroll employment. This place-of-work estimate must be adjusted to refer to place of residences as used in the CPS. Factors for adjusting from place of work to place of residence have been developed for the major categories of employment by class of worker and industry on the basis of employment relationships which existed at the time of the 1970 Decennial Census. These factors are applied to the payroll employment estimates for the current period to obtain adjusted employment estimates.

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

An estimate for those previously employed in covered industries is derived from a count of current unemployment insurance claimants, plus estimates of claimants whose benefits have been exhausted, those persons disqualified from receiving benefits for nonmonetary reasons (because they quit, were discharged for cause, etc., but would other-

wise have been eligible), and persons who either filed claims late or not at all.

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

For the third category, new entrants and reentrants into the labor force, a composite estimate is developed from equations that relate the total entrants into the labor force to the experienced unemployed and the experienced labor force. For each month, the estimate of entrants into the labor force is a function of: (a) the month of the year; (b) the level of the experienced unemployed; (c) the level of the experienced labor force; and (d) proportion of the working age population that is considered "youth." The composite estimate of total entrants is defined as:

$U = A(X + E) + BX$, where

U = total entrant unemployment

E = total employment

X = total experienced unemployment

A, B = synthetic factors incorporating seasonal variation and an assumed relationship between the proportion of youths in the working population and the historical relationship of entrants to the experienced unemployed (B factor) or the experienced labor force (A factor).

3. *Correction factors for employment and unemployment* are then applied at the State level to the UI-based estimates obtained above for each of the 40 States and the District of Columbia. These correction factors are based on the ratio of the CPS to the UI-based estimates for

the 6 month period ending in the current month (e.g. a 6-month moving average).

4. *Substate adjustment for additivity.* Independent estimates of employment and unemployment are prepared both for the State (obtained directly from the CPS in the 10 large States or by the UI-based method in the remaining States), and labor market areas (LMA's) within the State. The total of the geographic areas in the LMA's exhausts the geographic boundaries of the State. A proportional adjustment is applied to all substate LMA estimates to ensure that the substate estimates of employment and unemployment add to the independent State totals. In California and New York, which also have substate areas taken directly from the CPS, the additivity adjustment for the remaining areas is applied to the State total minus the direct CPS area.

5. *Benchmark correction procedures.* Once each year monthly estimates prepared by State employment security agencies using UI-based estimating procedures are adjusted, or benchmarked, by BLS to the annual average CPS estimates for the 40 States for which monthly CPS estimates are not available. This adjustment is necessary because the State-prepared estimates are not as reliable as the CPS annual averages due to differences in State UI laws, the structural limitations of the UI-based estimating method, and errors in the UI data.

The benchmarked estimates are produced in three stages. First, the monthly UI-based estimates are adjusted by the ratio of the CPS to the UI-based annual averages. Second, the difference between the ratio of annual averages for two consecutive years is wedged into the monthly estimates in order to minimize the disturbance to the original series. Finally, the second-stage estimates are forced into agreement with CPS annual averages. In the 10 States which use CPS estimates monthly, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal the CPS annual averages.

Seasonal Adjustment

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

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

Beginning in January 1980, the BLS introduced two major modifications in the seasonal adjustment methodology for data from the household survey. First, the data are being seasonally adjusted with a new procedure called X-11 ARIMA, which was developed at Statistics Canada as an extension of the existing standard X-11

method. A detailed description of the procedure appears in *The X-11 ARIMA Seasonal Adjustment Method*, by Estela Bee Dagum, Statistics Canada Catalogue No. 12-564E, February 1980. The X-11 procedure was originally developed at the Bureau of the Census and had been used by the BLS to seasonally adjust labor force series since 1973. Tests have shown that use of the X-11 ARIMA procedure, which essentially places more emphasis on recent data, provides better seasonal adjustments than does the X-11 method alone.

The second change is that seasonal factors are now being calculated for use during the first 6 months of the year rather than for the entire year. In July of each year, the BLS will calculate and publish (in *Employment and Earnings*) a new set of seasonal factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years will continue to be made once a year, at the beginning of each calendar year.

All civilian 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 (males and females under and over 20 years of age) are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. In order to provide seasonally adjusted total employment and civilian labor force estimates, the appropriate series are aggregated. The official unemployment rate for all civilian workers is derived by dividing the estimate for total unemployment (the sum of 4 seasonally adjusted sex-age components) by the civilian labor force (the sum of 12 seasonally adjusted sex-age components).

Revised seasonally adjusted data for selected labor force series based on the experience through December 1980, new seasonal adjustment factors to be used to calculate the overall unemployment rate for the first 6 months of 1981, and a description of the current seasonal adjustment methodology are published in the January 1981 issue of *Employment and Earnings*. Revised seasonally adjusted data covering the entire 5-year revision period for a broader range of labor force series appear in the February 1981 issue of this publication. Many additional series, which are either components or aggregates of the series presented, are available from the BLS upon request.

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

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

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

Seasonal factors were not computed for a number of series characterized by small seasonal components relative to their trend-cycle and/or irregular components. These unadjusted series are shown and used in the aggregation to broader level seasonally adjusted series.

The seasonally adjusted establishment data for Federal Government are based on a series which excludes the Christmas temporary help employed by the Postal Service in December. The employment of these workers constitutes the only significant seasonal change in Federal Government employment during the winter months. Furthermore, the volume of such employment may change substantially from year to year because of administrative decisions by the Postal Service. Hence, it was considered desirable to exclude this group from the data upon which the seasonally adjusted series is based.

For labor turnover rates, seasonal adjustment factors are applied directly to the component series. These series are then aggregated to obtain total levels (total accessions and total separations). These factors are derived by the *X-11 ARIMA Method* using the trading day option except for recalls. As a result, these series are adjusted for the number of times each day of the week occurs in a given month, as well as for the month of the year.

The revised seasonally adjusted series for the establishment data reflect experience through March 1981. Seasonal factors to be used for current adjustment appear in the July 1981 issue of *Employment and Earnings*.

U.S. Department of Labor Bureau of Labor Statistics

REGION I - BOSTON

John Fitzgerald Kennedy Federal BLDg.
Government Center - Room 1603 A
Boston, Mass. 02203

REGION II - NEW YORK

Suite 3400
1515 Broadway
New York, N.Y. 10036

REGION III - PHILADELPHIA

P.O. Box 13309
Philadelphia, Pa. 19101

REGION IV - ATLANTA

Suite 540
1371 Peachtree Street, NE.
Atlanta, Ga. 30367

REGION V - CHICAGO

9th Floor
2306 Dearborn Street
Chicago, Ill. 60604

REGION VI - DALLAS

2nd Floor
555 Griffin Square
Dallas, Tex. 75202

REGIONS VII & VIII - KANSAS CITY

15th Floor
911 Walnut Street
Kansas City, Mo. 64106

REGION IX - X - SAN FRANCISCO

Box 36017
450 Golden Gate Avenue
San Francisco, Calif. 94102

COOPERATING STATE AGENCIES

State and local Area Unemployment Statistics Program (LAUS), Current Employment Statistics Program (CES), and Labor Turnover Statistics Program (LTS)

BLS Region	
IV ALABAMA	-Department of Industrial Relations, Industrial Relations Building, Room 427, Montgomery 36130
X ALASKA	-Employment Security Division, Department of Labor, P.O. Box 3-7000, Juneau 99802
IX ARIZONA	-Department of Economic Security, P.O. Box 6123, Phoenix 85005
VI ARKANSAS	-Employment Security Division, Department of Labor, P.O. Box 2981, Little Rock 72203
IX CALIFORNIA	-Employment Development Department, P.O. Box 1679, Sacramento 95808 (CES).
III COLORADO	-Division of Employment and Training, 1278 Lincoln Street, Denver 80203
I CONNECTICUT	-Employment Security Division, Labor Department, 200 Folly Brook Boulevard, Wethersfield 06109
III DELAWARE	-Department of Labor, University Plaza Office Complex, Bldg. D, Chapman Rd., Route 273, Newark 19713
III DIST. OF COL.	-Office of Administration and Management Services, D.C. Department of Manpower, Suite 1000, 605 G Street, N.W., Washington 20001
IV FLORIDA	-Department of Labor and Employment Security, Caldwell Building, Tallahassee 32301
IV GEORGIA	-Department of Labor, 254 Washington Street, S.W., Atlanta 30334
IX HAWAII	-Department of Labor and Industrial Relations, P.O. Box 3680, Honolulu 96811
X IDAHO	-Department of Employment, P.O. Box 35, Boise 83707
IV ILLINOIS	-Bureau of Employment Security, 910 South Michigan Street, 15th Floor, Chicago 60605
V INDIANA	-Employment Security Division, 10 North Senate Avenue, Indianapolis 46204
VII IOWA	-Department of Job Service, 1000 East Grand Avenue, Des Moines 50319
VII KANSAS	-Division of Employment, Department of Human Resources, 401 Topeka Avenue, Topeka 66603
IV KENTUCKY	-Department of Human Resources, 275 E. Main Street, 2nd Floor West, Frankfort 40621
VI LOUISIANA	-Department of Labor, P.O. Box 44094—Capitol Station, Baton Rouge 70804
I MAINE	-Department of Manpower Affairs, Bureau of Employment Security, 20 Union Street, Augusta 04330
III MARYLAND	-Department of Human Resources, 1100 North Eutaw Street, Baltimore 21201
I MASSACHUSETTS	-Division of Employment Security, Charles F. Hurley Building, Government Center, Boston 02114
V MICHIGAN	-Employment Security Commission, 7310 Woodward Avenue, Detroit 48202
V MINNESOTA	-Department of Economic Security, 390 North Robert Street, Room 517, St. Paul 55101
IV MISSISSIPPI	-Employment Security Commission, P.O. Box 1699, Jackson 39205
VII MISSOURI	-Division of Employment Security, Department of Labor and Industrial Relations, P.O. Box 59, Jefferson City 65101
VIII MONTANA	-Employment Security Division, Department of Labor and Industry, P.O. Box 1728, Helena 59601
VII NEBRASKA	-Division of Employment, Department of Labor, P.O. Box 94600, Lincoln 68509
IX NEVADA	-Employment Security Department, P.O. Box 602, Carson City 89713
I NEW HAMPSHIRE	-Department of Employment Security, 32 South Main Street, Concord 03301
II NEW JERSEY	-Department of Labor and Industry, John Fitch Plaza, Room 202, Trenton 08625
VI NEW MEXICO	-Employment Services Division, Department of Human Services, P.O. Box 1928, Albuquerque 87103
II NEW YORK	-Division of Research and Statistics, Department of Labor, State Campus-Building 12, Albany 12201
IV NORTH CAROLINA	-Employment Security Commission, P.O. Box 25903, Raleigh 27611
VII NORTH DAKOTA	-Employment Security Bureau, P.O. Box 1537, Bismarck 58505
V OHIO	-Division of Research and Statistics, Bureau of Employment Services, 145 S. Front St., Columbus 43216
VI OKLAHOMA	-Employment Security Commission, 310 Will Rogers Memorial Office Building, Oklahoma City 73105
X OREGON	-Employment Division, Department of Human Resources, 875 Union Street, N.E., Salem 97311
III PENNSYLVANIA	-Department of Labor and Industry, Seventh and Forster Streets, Harrisburg 17121
II PUERTO RICO	-Department of Labor, 414 Barbosa Avenue, Hato Rey 00917
I RHODE ISLAND	-Department of Employment Security, 24 Mason Street, Providence 02903
IV SOUTH CAROLINA	-Employment Security Commission, P.O. Box 995, Columbia 29202
VII SOUTH DAKOTA	-Department of Labor, P.O. Box 1730, Aberdeen 57401
IV TENNESSEE	-Department of Employment Security, 436—6th Avenue, North, Room 519, Nashville 37219
VI TEXAS	-Employment Commission, 1117 Trinity Street, Austin 78701
VIII UTAH	-Department of Employment Security, P.O. Box 11249, Salt Lake City 84147
I VERMONT	-Department of Employment Security, P.O. Box 488, Montpelier 05602
II VIRGIN ISLANDS	-Division of Employment Security, P.O. Box 1092, St. Thomas 00801 (CES)
III VIRGINIA	-Division of Research and Statistics, Department of Labor and Industry, P.O. Box 12064, Richmond 23241 (CES). Employment Commission, P.O. Box 1358, Richmond 23211 (LAUS and LTS)
X WASHINGTON	-Employment and Security Department, 212 Maple Park, Olympia 98504
III WEST VIRGINIA	-Department of Employment Security, 112 California Avenue, Charleston 25305
V WISCONSIN	-Department of Industry, Labor, and Human Relations, P.O. Box 7944, Madison 53707
VII WYOMING	-Employment Security Commission, P.O. Box 2760, Casper 82601