

Employment and Earnings

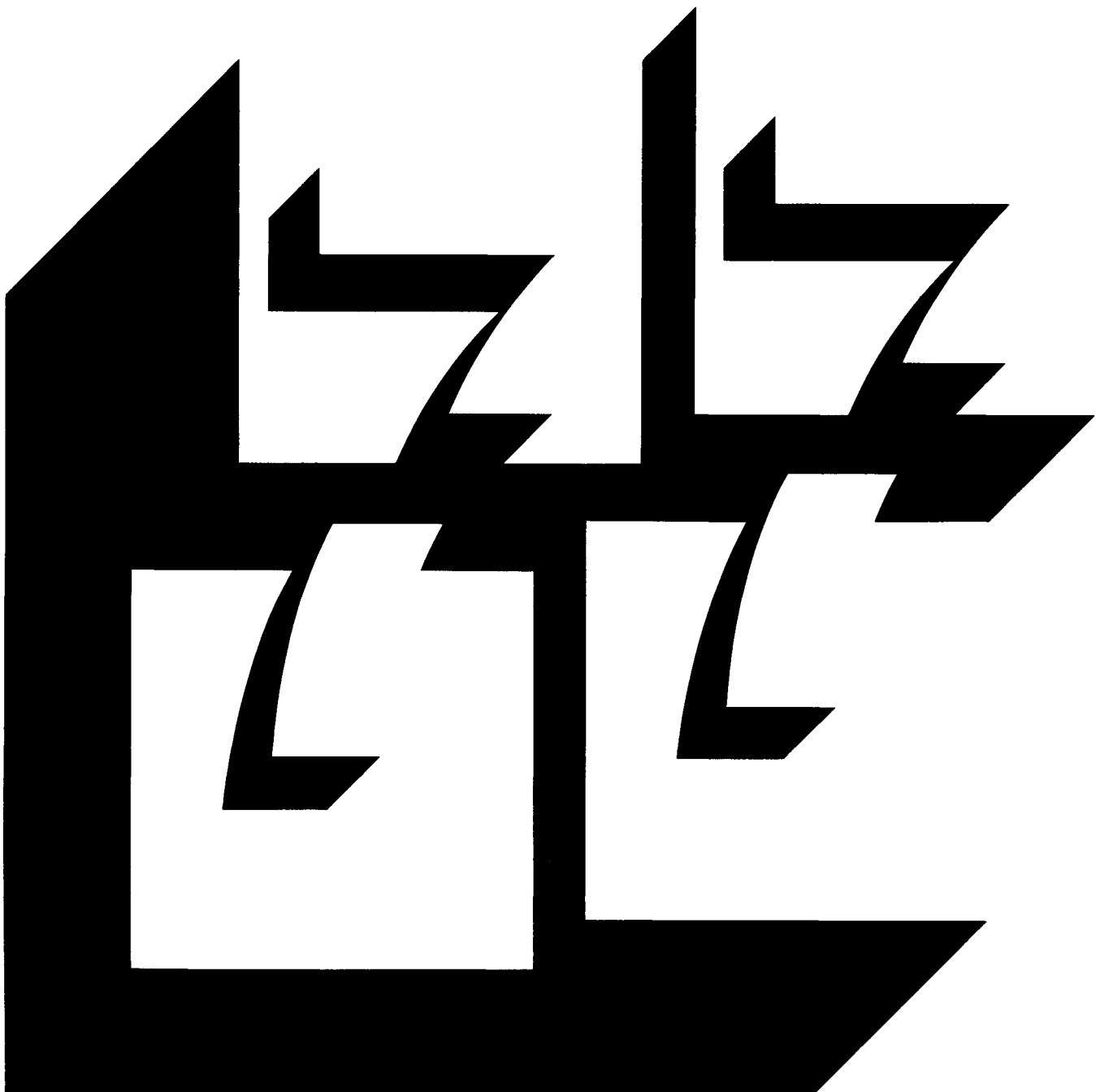
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In this issue:
Revised seasonally adjusted
establishment data





U.S. DEPARTMENT OF LABOR

Ray Marshall, Secretary

BUREAU OF LABOR STATISTICS

Julius Shiskin, Commissioner

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Employment and Earnings

Vol. 24 No. 12 December 1977

Editors: Chester L. Green, Gloria P. Green, Marcy Freedman

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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:											
	Jan.	Feb.	Mar.	Apr.	May	July	Aug.	Oct.	Nov.	Dec.	
Household data											
Annual averages	x										
Revised seasonally adjusted series		x									
Quarterly averages:											
Seasonally adjusted data											
Persons not in labor force											
Persons of Hispanic origin											
Vietnam-Era veterans and nonveterans	x			x		x		x			
Poverty-nonpoverty area data											
Establishment data											
National annual averages:											
Industry divisions (preliminary)	x										
Industry detail (final)			x								
Women employment (National)		x			x		x		x		
National data adjusted to new benchmarks			(1)					(1)			
Revised seasonally adjusted series										(2)	
State and area annual averages					x						
Area definitions					x						

¹ The issue that introduces new benchmarks varies. The October 1975 issue marks the introduction of March 1974 benchmarks. Interim revisions of selected series appear in the February 1977 issue.

² Revised data introduced December 1977.

MONTHLY HOUSEHOLD DATA

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Employment and Unemployment Developments, November 1977

Employment rose sharply in November but unemployment was little changed. The November unemployment rate was 6.9 percent, marking the eighth straight month that the rate was within the narrow range of 6.9 and 7.1 percent.

Total employment—as measured by the monthly survey of households—rose by 950,000 to 92.2 million in November. Over the past year, employment has expanded by 3.9 million, and the proportion of the population with jobs has risen from 56.2 percent to an alltime high of 57.8 percent.

Nonfarm payroll employment—as measured by the monthly survey of establishments—rose by 310,000 over the month to 83.2 million. Payroll jobs have increased by 3.1 million since November 1976. (As in past years, the seasonally-adjusted establishment data have been revised.)

Unemployment

The number of unemployed persons was little changed over the month. The November level was 6.8 million, seasonally adjusted, about the same as the levels recorded since April; however, strong declines prior to April accounted for an over-the-year reduction in joblessness of 750,000. Similarly, the rate of unemployment—6.9 percent in November—was about unchanged from the rates registered between April and October but well below the 8.0 percent high for 1976 recorded last November.

While the jobless rate for adult women advanced slightly over the month (to 7.1 percent) and that for teenagers held about steady (at 17.1 percent), the rate for adult men dropped by 0.4 percentage point; this decline represented a return to the September level (of 4.9 percent). On an over-the-year basis, all three rates, but most notably the adult men's, have registered reductions.

The overall unemployment rates for whites and blacks (6.0 and 13.8 percent, respectively) exhibited little over-the-month change. Compared with a year earlier, the rate for whites has declined by more than a percentage point, while the rate for blacks has shown no improvement.

The rate for full-time workers fell from 6.6 to 6.4 percent in November and was down from 7.6 percent a year earlier.

The average (mean) duration of unemployment held steady in November at 13.8 weeks but was 1.7 weeks less than in November 1976.

Total employment and the labor force

Total employment registered an unusually large increase of 950,000 in November, with all major demographic groups sharing in the growth. Employment has risen almost continuously over the year to 92.2 million, 3.9 million above its year-ago level. This advance was about evenly divided between men and women (16 years and over), but, because the male employment total is much greater than the women's, their percentage increase over the year was considerably less (3.9 versus 5.2 percent for women).

As would be expected, the bulk of the over-the-month and over-the-year employment growth occurred among persons on full-time schedules. However, employment growth for voluntary part-time workers was proportionately greater in both time frames.

The labor force in November, at 99.0 million seasonally adjusted, was 900,000 above the October level and 3.2 million higher than a year earlier. The labor force participation rate—the proportion of the civilian noninstitutional population either working or seeking work—rose by half a percentage point in November to 62.9 percent, an alltime high.

Industry payroll employment

Although not nearly as great as the increase in employment from the household survey, the increase in non-agricultural payroll employment was nonetheless substantial. Payroll employment increased by 310,000 in November to 83.2 million, seasonally adjusted. All of the major industry groups posted employment gains, as 70 percent of the 172 industries that comprise the BLS diffusion index of private nonagricultural payroll employment showed over-the-month increases. Nonfarm payrolls have expanded by 3.1 million over the past year.

The services industry division had the largest over-the-month employment increase with a gain of 75,000. Manufacturing employment rose by 65,000; most of this increase occurred in the durable goods group, with the lumber, stone-clay-glass, fabricated metals, and electrical equipment industries each registering gains of about 10,000 jobs. Trade and government also showed sizeable gains in their November payroll counts. All of the increase in government employment occurred in the State and local sector.

Construction employment continued the growth that began early in the year; approximately half of the 30,000 over-the-month increase, however, was due to strike settlements. Contract construction employment in November was 355,000 above its year-ago level.

Hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls slipped by a tenth of an hour in November to 36.1 hours, seasonally adjusted. The manufacturing workweek, however, edged up by 0.1 hour in November to 40.5 hours, equaling the post-1973 high reached in June of this year. Manufacturing overtime was 3.5 hours, unchanged from October but 0.4 hour above the year-ago level.

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls edged up to 116.9 (1967=100) in November, 0.1 per-

cent above the October level. All of the over-the-month increase occurred in the goods-producing sector. The overall index has increased by 3.6 percent since November 1976.

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls advanced 0.4 percent, seasonally adjusted, in November. Because of the slight decline in hours of work, there was an even smaller increase in average weekly earnings (0.1 percent). Compared with their year-ago levels, average hourly and weekly earnings were up 7.8 and 7.5 percent, respectively.

Before adjustment for seasonality, average hourly earnings were unchanged from October's \$5.40 and were 40 cents above the level of November a year ago. Average weekly earnings, however, declined \$1.08 from the previous month to \$194.40. Over the year, average weekly earnings rose by \$13.90.

Revision of Seasonally Adjusted Establishment Data

*Kathleen M. Beall

This issue of *Employment and Earnings* introduces revised seasonal factors and seasonally adjusted data for the establishment-based series (See pp. 130-149). These revised data replace those published in the December 1976 and subsequent issues of this publication.

Annual revision of seasonal factors

In accordance with established practice, once each year the Bureau of Labor Statistics (BLS) revises the seasonal adjustment factors to take into account the experience of the most recent year. The revised seasonal factors and seasonally adjusted data, published in this issue, incorporate experience from January 1968 through August 1977. Following BLS policy, revisions of the seasonal factors were limited to the most recent 5 years.

The BLS utilizes an adaptation of the widely used ratio-to-moving average method for seasonally adjusting employment, weekly hours, hourly earnings, and labor turnover.¹ This method has a provision for "moving" adjustment factors to take into account changing seasonal patterns. After another year of data is added to a series, seasonal factors for the most recent five years may change although the unadjusted data remain unchanged. To take into account this added experience in the computation of seasonally adjusted data, the Bureau routinely revises seasonally adjusted data for the most recent 5 years.

Special procedures are used, where necessary, to take into account holidays and other calendar irregularities. The BLS uses special procedures to seasonally adjust the employment series for the transportation equipment industry to compensate for the shifting dates of automobile plant retooling during the summer months. Special adjustments for retail trade have been used for many years in seasonally adjusting the employment series to compensate for the changing date of Easter. The Federal Government employment series is adjusted to exclude the temporary postal workers hired at Christmas time. Seasonal factors in labor turnover also reflect "trading day" factors which adjust for variation in the number of times a day of the week (Monday, for example) falls in each month.

Seasonal adjustment procedures

Last year, with the release of the November 1976 establishment-based data, the procedures used to seasonally adjust certain establishment-based series were changed. Under the new procedures, all seasonally adjusted aggregate levels are consistent with their seasonally adjusted components:

Seasonally adjusted values for average weekly hours, average hourly earnings, and overtime hours in manufacturing are derived by taking a weighted average of their seasonally adjusted components—if the components are seasonally adjusted. All other employment series and labor turnover statistics for manufacturing are simply the sum of their component parts.

Seasonal adjustment factors are computed for the component series to be used for the 12 month period September 1977 through August 1978. No factors are computed for the aggregate series or for the derivative series since the seasonally adjusted data are derived from the component series.

Derivative series

There are five derivative series at the total private non-agricultural level for which revised data are published as a result of the updating of seasonal factors. They are (1) spendable weekly earnings on a current-dollar basis, (2) spendable weekly earnings on a 1967-dollar basis, (3) gross weekly earnings on a current-dollar basis, (4) gross weekly earnings on a 1967-dollar basis, and (5) gross average hourly earnings on a 1967-dollar basis.

Although these series are not seasonally adjusted directly, they incorporate data which may have changed due to the seasonal adjustment revision.

* Of the Division of Industry Employment Statistics, Office of Employment Structure and Trends, Bureau of Labor Statistics.

¹ For all establishment-based series, with the exception of the labor turnover series, the BLS Seasonal Factor Method is used. The Census Bureau's X-11 Method is used to adjust labor turnover data incorporating a "trading day" factor adjustment.

Benchmark Revisions

The BLS usually adjusts the estimated employment levels of its establishment series annually to reflect the most recent, complete employment counts, called benchmarks (for March in each year). Benchmark information is obtained primarily from summaries of quarterly unemployment tax reports submitted by employers to their State employment security agencies. The summaries are compiled at industry levels which are coded using the Standard Industrial Classification Manual. The SIC manual has been revised to reflect the 1972 structure of industry. The changeover to the 1972 classification has caused delays in completion of tabulations and problems in compiling the necessary historical sequence for adjustment to the new benchmark. Therefore, the national series have not been benchmarked at this time. An interim revision was introduced in early 1977 to adjust for recognized discrepancies in certain sectors of the economy, such as contract construction, trade, services, and State and local government. These corrections were based on the 1967 SIC coding structure, as are the current data. The next benchmark revision, scheduled for the fall of 1978, will be based on the 1972 SIC coding structure.

New Series on Recalls from the Labor Turnover Survey

*Carol Utter

This issue of Employment and Earnings introduces a new labor turnover series on "recalls." Recalls are permanent and temporary additions to the employment rolls 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. Until now, recalls have been included in an unpublished "other accessions" component that was comprised of recalls, transfers from other establishments of the same company, former employees returning from military leave, or other absences without pay that had been counted as separations.

For a number of years analysts have expressed interest in obtaining a separate recall series because of its potential as an economic indicator and because of its value for providing further insight into structural changes in the work force. In addition, it is felt that the separate reporting of recalls would aid in the reporting and editing of the labor turnover collection reports; that is, by calling specific attention to recalls as a separately reported item, the observed underreporting of additions to payrolls might be reduced.

Beginning in January 1976, a separate column for recalls was added to the labor turnover questionnaire mailed to establishments. After almost 2 years of experience with the new series, the Bureau has determined that the data are valid and rates will be published on a monthly basis. A few observations about the new series may be of interest.

Recalls make up 23 percent of all additions to manufacturing payrolls. In some industries, the proportion is much higher—for example, in primary metals 43 percent of total hires are made up of former workers who have been on layoff. In the highly seasonal tobacco industry, recalls make up 45 percent of total accessions. On the other hand, the instrument and related products industry, on the average, depends on recalls for only 12 percent of their additions to the work force. It follows that industries with relatively low average layoff rates will have low recall rates.

Employers normally expect to recall workers placed on layoff. Layoffs are suspensions from the payroll initiated by the employer without prejudice to the worker. They are used to adjust employers' work forces for temporary conditions such as lack of orders, model-change-over, termination of seasonal or temporary employment, inventory taking, introduction of labor savings devices, plant breakdown, shortage of materials, and the like.

Over an extended period of time, the number of recalls should equal the number of layoffs if employers recall all workers placed on layoff. In fact, only 75 percent of such workers were recalled during the 1976-77 period for which recall data exist.

Average recall rates as percentages of average layoff rates varied from a low of 50 percent in the petroleum and coal products industries to almost 100 percent in the primary metal industries. A number of factors are responsible for this loss of the experienced work force. Some workers may find alternative employment and, therefore, not be available when their previous employers recall them. These workers are counted as new hires by the most recent employer. Some individuals may retire or leave the labor force for other reasons. In some cases, technological changes and continuing slack business will cause employers to call back fewer workers than were placed on layoff. Also, some employers, rather than bringing dismissal proceedings against inefficient or undesirable workers, may prefer to place these workers on layoff with no intention of recalling them. This would make it easier for such employees to get unemployment benefits and to find other employment. In general, industries with high concentrations of skilled occupations tend to have the higher recall/layoff proportions. Longer experience with the new series should make it possible to analyze these relationships over time.

Seasonal adjustment

Currently the Bureau of Labor Statistics publishes seasonally adjusted data for several statistical series. Through seasonal adjustment, changes in the statistics which can be ascribed to seasonal variation only are eliminated. The seasonal changes are estimated on the basis of past experience. With seasonal variation eliminated, it is possible to observe the cyclical and other nonseasonal movements in the series. The seasonally adjusted labor turnover rates are considered good economic indicators and are widely used by economic analysts in both government and private industry. The method used for seasonally adjusting these rates is the Census Bureau's X-11 Method with the trading day option

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which adjusts the series for the number of times each day of the week occurs in a given month, as well as for the month of the year. Unfortunately, the time span for which the recall data are available is much too short for the calculation of adequate seasonal adjustment factors. At least 3 years of data are required by the X-11 Program and at least 10 years are recommended if the trading day option is utilized.

Inspection of the recall data from 1976 forward indicates that recalls are the major component (75 percent) of the time series called "other accessions," which is available for many years prior to 1976. This series is not published. It appears reasonable to assume that most of the seasonal movements in the combined series is due to movement in recalls. Therefore, the seasonal factors published for the combined series (see page 149) may be used to provide an approximation of seasonally adjusted recalls until the

recall series is long enough to allow the calculation of discrete seasonal factors. The analyst is cautioned, however, in making this approximation, that we have no information on recalls during a period of economic downturn or at the trough of a business cycle. Likewise, there are periods of the past when returns from military service may have been a much more significant proportion of the "other accessions" total than for the 1976-77 overlap period we have available. The Bureau will not publish a seasonally adjusted series on recalls until a discrete seasonal adjustment can be made. (Additional information on revised seasonal factors for labor turnover and other establishment-based series is provided on page 8 and in the Explanatory Notes section of this publication.)

The following table presents recalls by industry for the period January 1976 through September 1977. Current months' data are shown on Table D-2, page 116.

Table 1. Recall rates by industry, 1976-77

[Per 100 employees]

SIC Code	Industry	1976												
		Ann. Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
	MANUFACTURING	1.0	1.4	1.0	1.2	1.0	1.0	0.8	1.0	1.1	0.8	0.7	0.7	0.7
19,24, 25,32-39 20-23, 26-31	DURABLE GOODS .....	.9	1.4	1.0	1.3	1.1	1.0	.8	.8	.9	.7	.6	.7	.7
	NONDURABLE GOODS	1.0	1.3	1.0	1.0	.9	1.0	.9	1.3	1.4	1.0	.9	.8	.6
	DURABLE GOODS													
19	ORDNANCE AND ACCESSORIES .....	.4	.4	.4	.4	.3	.5	.4	.7	.4	.5	.5	.5	.3
192	Ammunition, except for small arms .....	.5	.2	.4	.4	.3	.4	.4	1.0	.6	.6	.6	.6	.4
24	LUMBER AND WOOD PRODUCTS .....	.9	1.4	1.2	1.5	1.5	1.3	.9	.7	.5	.4	.5	.5	.5
242	Sawmills and planing mills .....	.7	1.0	1.1	.9	1.4	1.1	.7	.7	.5	.4	.4	.3	.4
2421	Sawmills and planing mills, general .....	.7	.9	1.0	1.0	1.4	1.2	.8	.6	.3	.4	.3	.3	.4
243	Millwork, plywood and related products .....	.8	1.3	.9	1.7	1.1	.6	.6	.5	.4	.4	.8	.9	.5
2431	Millwork .....	.6	.9	.5	1.0	.9	.7	.6	.6	.4	.3	.4	.7	.7
2432	Veneer and plywood .....	.5	1.0	.9	.5	.7	.3	.5	.3	.4	.3	.2	.4	.3
244	Wooden containers	1.3	1.5	1.7	1.6	3.9	.7	.8	.9	1.6	.9	.6	.5	.5
2441,2	Wooden boxes, shooks, and crates	1.2	1.1	1.3	2.0	3.4	.8	1.0	1.1	1.8	.7	.7	.4	.5
249	Miscellaneous wood products .....	.7	1.3	.8	1.0	.6	.7	.6	1.0	.6	.5	.5	.5	.8
25	FURNITURE AND FIXTURES .....	.9	1.8	.8	.8	.7	.6	.6	1.1	1.2	.7	.6	.9	.5
251	Household furniture .....	.7	1.7	.6	.6	.4	.3	.3	1.2	1.0	.8	.4	.8	.4
2511	Wood household furniture .....	.5	1.0	.4	.7	.4	.4	.3	1.1	.7	.3	.2	.9	.1
2512	Upholstered household furniture .....	.5	1.0	.5	.3	.3	.3	.2	1.3	.8	.5	.2	.3	.3
2515	Mattresses and bedsprings .....	.5	.6	.3	.4	.4	.4	.4	.5	1.0	.8	.5	.7	.5
252	Office furniture	1.3	.9	1.2	2.1	1.9	2.4	2.3	1.3	2.7	.2	.3	.3	.2
32	STONE, CLAY, AND GLASS PRODUCTS	1.3	2.5	1.6	2.3	2.1	1.4	1.1	.9	.9	.7	.5	.5	.8
321	Flat glass	1.3	.2	.4	2.5	1.4	1.7	1.6	.7	2.3	1.6	1.7	.6	.6
322	Glass and glassware, pressed or blown	1.1	1.3	1.6	1.3	1.6	1.3	1.6	.4	.9	1.1	.4	.4	1.3
3221	Glass containers .....	.8	.6	1.5	1.5	2.0	1.0	1.0	.1	.3	.6	.4	.4	.6
3229	Pressed and blown glass, nec	1.5	2.2	1.8	1.1	1.1	1.7	2.4	.8	1.8	1.8	.4	.3	2.4
324	Cement, hydraulic	2.0	6.4	3.0	6.0	4.6	1.1	.3	.9	.3	.3	.3	.1	.2
325	Structural clay products	1.2	1.2	2.0	3.3	2.1	1.2	.8	.7	.4	.4	.4	.9	.5
3251	Brick and structural clay tile	1.3	1.2	2.5	4.9	1.9	1.2	.4	.7	.5	.2	.4	.7	.5
326	Pottery and related products .....	.8	2.5	1.2	.9	.8	.4	.8	.5	.4	.4	.2	.5	.7
3291	Abrasive products .....	.5	1.0	.8	1.2	.8	.7	.8	.2	.3	.1	.3	.2	.1
33	PRIMARY METAL INDUSTRIES	1.5	2.4	2.0	2.2	1.9	1.6	1.4	1.0	1.0	.7	.9	1.2	1.4
331	Blast furnace and basic steel products	2.1	3.3	3.1	3.1	2.7	2.2	2.1	1.3	1.2	1.0	1.1	1.9	2.4
3312	Blast furnaces and steel mills	2.1	3.4	3.1	3.0	2.7	2.1	1.9	1.2	1.2	1.0	1.1	1.9	2.7
332	Iron and steel foundries	1.0	1.5	1.0	1.3	1.0	.8	1.0	.7	1.0	.5	1.2	.7	.7
3321	Gray iron foundries .....	.8	1.4	1.0	1.4	.8	.7	.7	.5	1.0	.3	1.1	.4	.7
3322	Malleable iron foundries	1.5	4.4	1.5	1.4	1.5	1.3	1.3	1.0	1.2	.6	2.1	1.3	.5
3323	Steel foundries	1.0	1.0	.7	1.3	1.2	.8	1.4	1.3	1.2	.9	1.0	1.1	.6
333,4	Nonferrous metals	1.0	1.8	1.0	1.9	1.9	1.1	.7	.9	.7	.5	.2	.3	.4
335	Nonferrous rolling and drawing .....	.8	1.0	1.2	1.5	1.2	1.2	.9	.6	.6	.3	.5	.5	.4
3351	Copper rolling and drawing .....	.7	1.5	.9	1.2	.6	.7	.6	.8	.4	.3	.3	.3	.2
3352	Aluminum rolling and drawing	1.3	1.5	1.5	2.6	2.4	2.3	1.5	.8	.8	.4	.6	.7	.5
3357	Nonferrous wire drawing, and insulating .....	.6	.6	1.2	.9	.6	.7	.6	.5	.7	.3	.4	.5	.4
336	Nonferrous foundries	1.2	2.6	1.6	1.3	.9	1.0	1.0	.7	1.0	.8	.7	.9	1.3
3361	Aluminum castings	1.3	3.3	2.0	1.5	1.0	1.0	.8	.7	1.4	.5	.6	1.1	1.5
3362,9	Other nonferrous castings	1.0	1.8	1.1	1.0	.9	1.0	1.1	.8	.6	1.3	.9	.6	1.0
339	Miscellaneous primary metal products .....	.8	2.0	1.0	1.3	.9	1.1	.8	.7	.7	.4	.5	.5	.2
3391	Iron and steel forgings .....	.8	1.5	1.1	1.2	.8	1.1	.8	.6	.8	.4	.3	.5	.2
34	FABRICATED METAL PRODUCTS	1.0	1.6	1.0	1.1	1.1	1.0	.9	.9	1.0	.7	.7	1.0	.9
341	Metal cans	3.1	6.6	2.9	3.3	5.1	3.3	3.0	2.2	2.0	1.9	1.8	2.5	2.9
342	Cultery, hand tools, and hardware .....	.6	1.0	.7	.6	.5	.4	.5	.4	1.2	.7	.5	.3	.3
3421,3,5	Cultery and hand tools, incl. saws .....	.7	.7	.6	.6	.5	.4	.7	.8	2.1	.9	.5	.4	.3
3429	Hardware, nec .....	.5	1.2	.8	.6	.5	.3	.3	.2	.5	.6	.4	.3	.3
343	Plumbing and heating, except electric .....	.9	2.1	.9	.9	.7	.8	.5	.9	.8	.7	.9	.4	.7
3431,2	Sanitary ware and plumbers' brass goods .....	.7	.9	.3	.4	.7	.6	.4	.4	.9	1.2	1.3	.4	.6
3433	Heating equipment, except electric	1.0	3.2	1.4	1.4	.7	1.1	.5	1.3	.7	.4	.6	.4	.8
344	Fabricated structural metal products .....	.9	1.1	.7	1.2	1.2	1.0	1.0	.9	.8	.7	.7	.8	.6
3441	Fabricated structural steel	1.0	.9	.9	1.7	1.3	1.0	1.3	1.1	.9	.9	.8	.8	.9
3443	Fabricated plate work (boiler shops) .....	.4	.5	.4	.5	.4	.4	.5	.6	.6	.4	.4	.2	.3
3446,9	Architectural and misc. metal work	1.0	1.4	.7	1.1	1.2	1.4	1.8	1.0	.9	.7	.9	.8	.4
345	Screw machine products, bolts, etc. ....	.7	1.2	1.2	1.4	.7	.8	.5	.6	.7	.5	.4	.2	.4
3452	Bolts, nuts, rivets, and washers .....	.7	1.1	1.2	1.4	.7	.7	.5	.6	.8	.6	.3	.3	.5

See footnotes at end of table.

Table 1. Recall rates by industry, 1976-77—Continued

[Per 100 employees]

SIC Code	Industry	1977												
		Ann. Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
	MANUFACTURING	-	1.2	1.3	1.1	0.9	0.8	0.8	1.0	1.0	-	-	-	-
19,24, 25,32-39 20-23, 26-31	DURABLE GOODS	-	1.2	1.4	1.2	.9	.8	.7	.7	.8	-	-	-	-
	NONDURABLE GOODS	-	1.2	1.1	1.0	.9	1.0	1.0	1.3	1.1	-	-	-	-
	DURABLE GOODS													
19 192	ORDNANCE AND ACCESSORIES	-	.7	.5	.6	.5	.5	.5	.5	.3	-	-	-	-
	Ammunition, except for small arms	-	.4	.5	.6	.5	.6	.6	.5	.4	-	-	-	-
24	LUMBER AND WOOD PRODUCTS	-	1.1	1.6	1.3	1.2	1.2	.9	.6	.6	-	-	-	-
242	Sawmills and planing mills	-	.6	.9	.8	.9	.9	1.0	.6	.5	-	-	-	-
2421	Sawmills and planing mills, general	-	.5	.7	.8	1.0	.9	1.0	.6	.4	-	-	-	-
243	Millwork, plywood and related products	-	1.1	2.2	1.6	1.0	.9	.6	.4	.3	-	-	-	-
2431	Millwork	-	1.9	2.8	.8	.9	.6	.3	.2	.3	-	-	-	-
2432	Veneer and plywood	-	.5	1.0	1.0	.4	1.1	.5	.6	.4	-	-	-	-
244	Wooden containers	-	3.0	.9	2.0	2.0	1.2	1.0	.8	1.0	-	-	-	-
2441,2	Wooden boxes, shooks, and crates	-	2.8	.9	2.4	1.3	1.3	.6	.5	1.0	-	-	-	-
249	Miscellaneous wood products	-	1.5	1.2	1.0	.8	.6	.4	.6	.8	-	-	-	-
25	FURNITURE AND FIXTURES	-	1.3	1.2	1.1	.9	.6	.7	1.0	.7	-	-	-	-
251	Household furniture	-	1.4	1.1	.9	.7	.5	.6	1.1	.7	-	-	-	-
2511	Wood household furniture	-	1.2	.7	1.2	.9	.5	.4	1.3	.5	-	-	-	-
2512	Upholstered household furniture	-	.9	1.4	.6	.4	.3	.5	.7	.6	-	-	-	-
2515	Mattresses and bedsprings	-	1.4	1.0	.5	.7	.8	.7	1.1	1.2	-	-	-	-
252	Office furniture	-	.6	.5	1.6	3.3	.7	1.1	.2	.8	-	-	-	-
32	STONE, CLAY, AND GLASS PRODUCTS	-	1.7	3.3	3.2	1.8	1.1	.8	.9	.7	-	-	-	-
321	Flat glass	-	1.1	.7	.7	2.0	.9	.7	1.2	.6	-	-	-	-
322	Glass and glassware, pressed or blown	-	2.0	4.4	3.0	1.0	.8	.8	.8	.7	-	-	-	-
3221	Glass containers	-	1.5	3.5	3.4	.7	.9	.9	.8	.4	-	-	-	-
3229	Pressed and blown glass, nec	-	2.7	5.7	2.3	1.5	.6	.7	.9	1.2	-	-	-	-
324	Cement, hydraulic	-	1.4	3.6	4.4	2.8	1.4	.5	.4	.3	-	-	-	-
325	Structural clay products	-	1.4	6.4	6.2	2.0	1.0	.9	.8	.5	-	-	-	-
3251	Brick and structural clay tile	-	1.3	6.8	8.7	1.6	.8	1.0	.4	.2	-	-	-	-
326	Pottery and related products	-	2.0	1.3	2.7	.4	.8	.5	.4	.9	-	-	-	-
3291	Abrasive products	-	.2	.8	.5	.3	.4	.3	.2	.2	-	-	-	-
33	PRIMARY METAL INDUSTRIES	-	1.9	2.6	2.4	1.2	1.0	.7	.7	.8	-	-	-	-
331	Blast furnace and basic steel products	-	2.9	3.5	3.7	1.9	1.5	.9	.9	1.1	-	-	-	-
3312	Blast furnaces and steel mills	-	3.0	3.6	3.8	1.9	1.5	.9	.9	1.1	-	-	-	-
332	Iron and steel foundries	-	1.2	2.0	1.2	.8	.8	.5	.5	.7	-	-	-	-
3321	Gray iron foundries	-	1.1	1.7	1.0	.5	.5	.3	.5	.4	-	-	-	-
3322	Malleable iron foundries	-	.9	2.8	3.0	.8	1.3	.3	.8	.5	-	-	-	-
3323	Steel foundries	-	1.5	2.4	1.1	1.6	1.3	.9	.6	1.5	-	-	-	-
333,4	Nonferrous metals	-	.6	.7	1.0	.5	.4	.5	.1	.4	-	-	-	-
335	Nonferrous rolling and drawing	-	1.0	2.1	.9	.6	.5	.4	.5	.4	-	-	-	-
3351	Copper rolling and drawing	-	1.1	.6	.3	.4	.3	.4	.3	.5	-	-	-	-
3352	Aluminum rolling and drawing	-	1.6	4.0	1.3	1.0	.5	.5	.6	.3	-	-	-	-
3357	Nonferrous wire drawing, and insulating	-	.6	1.3	.6	.4	.6	.3	.6	.5	-	-	-	-
336	Nonferrous foundries	-	1.7	1.5	2.4	1.1	.7	1.0	.8	1.0	-	-	-	-
3361	Aluminum castings	-	1.8	1.1	1.5	.6	.3	.6	1.2	.4	-	-	-	-
3362,9	Other nonferrous castings	-	1.4	2.0	3.6	1.7	1.3	1.5	.4	1.7	-	-	-	-
339	Miscellaneous primary metal products	-	.9	3.7	1.7	.8	.9	.6	.6	.9	-	-	-	-
3391	Iron and steel forgings	-	.7	2.0	1.7	1.0	1.1	.9	.5	.9	-	-	-	-
34	FABRICATED METAL PRODUCTS	-	1.2	1.7	1.2	1.0	.9	.7	1.0	.8	-	-	-	-
341	Metal cans	-	4.9	9.5	4.0	2.9	3.1	2.1	1.7	2.0	-	-	-	-
342	Cultery, hand tools, and hardware	-	.5	.9	.9	.5	.5	.5	.6	.6	-	-	-	-
3421,3,5	Cultery and hand tools, incl. saws	-	.4	1.5	1.7	.6	.5	.6	.9	1.0	-	-	-	-
3429	Hardware, nec	-	.6	.5	.5	.4	.5	.4	.4	.4	-	-	-	-
343	Plumbing and heating, except electric	-	1.0	1.3	.6	.7	.6	.3	.6	.5	-	-	-	-
3431,2	Sanitary ware and plumbers' brass goods	-	1.1	1.5	.8	.9	.4	.3	.7	.3	-	-	-	-
3433	Heating equipment, except electric	-	.9	1.2	.4	.6	.7	.3	.5	.6	-	-	-	-
344	Fabricated structural metal products	-	1.0	1.4	1.4	1.3	1.2	1.0	.7	.8	-	-	-	-
3441	Fabricated structural steel	-	1.0	2.2	2.0	1.1	1.4	1.5	1.1	1.0	-	-	-	-
3443	Fabricated plate work (boiler shops)	-	.4	.6	.5	.7	.6	.5	.5	.6	-	-	-	-
3446,9	Architectural and misc. metal work	-	1.1	1.7	1.3	1.8	1.6	1.2	.8	1.2	-	-	-	-
345	Screw machine products, bolts, etc.	-	.4	.3	.3	.4	.4	.4	.4	.6	-	-	-	-
3452	Bolts, nuts, rivets, and washers	-	.4	.4	.5	.5	.5	.4	.3	.3	-	-	-	-

See footnotes at end of table.

Table 1. Recall rates by industry, 1976-77—Continued

[Per 100 employees]

SIC Code	Industry	1976												
		Ann. Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
DURABLE GOODS—Continued														
FABRICATED METAL PRODUCTS — Continued														
346	Metal stampings	0.9	1.6	1.2	1.0	0.8	0.7	0.6	0.7	1.5	0.3	0.3	1.2	0.6
348	Miscellaneous fabricated wire products	1.0	2.2	.9	1.6	1.1	1.3	.9	1.3	.5	.6	.7	.5	.6
349	Miscellaneous fabricated metal products . . . . .	.7	1.3	.8	.8	.8	.7	.6	.6	.7	.5	.6	.6	.5
3494,8	Valves, pipe, and pipe fittings . . . . .	.6	1.0	.6	.7	.8	.8	.6	.5	.7	.4	.7	.6	.2
35	MACHINERY, EXCEPT ELECTRICAL . . . . .	.7	1.1	.7	.9	.6	.6	.7	.6	.7	.6	.4	.5	.5
351	Engines and turbines . . . . .	.5	1.1	.4	.8	.3	.8	.8	.6	.5	.2	.4	.2	.2
3511	Steam engines and turbines	-	.1	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
3519	Internal combustion engines, nec . . . . .	.8	1.8	.6	1.3	.5	1.3	1.2	.9	.7	.3	.6	.3	.4
352	Farm machinery	1.0	1.7	.9	.9	.5	.7	1.0	1.1	1.3	1.3	.9	.5	.6
353	Construction and related machinery . . . . .	.9	1.3	1.1	1.4	.7	.6	.7	.5	.6	.5	.4	1.2	1.5
3531,2	Construction and mining machinery	1.3	1.8	1.7	2.1	1.0	.7	.7	.7	.7	.4	.5	2.0	2.7
3533	Oil field machinery	2.2	.1	.1	.1	(¹)	.1	.2	.2	.3	.6	.3	.3	.3
3535,6	Conveyors, hoists, cranes, monorails . . . . .	.4	.5	.6	.6	.4	.6	.4	.3	.3	.2	.2	.2	.1
354	Metal working machinery . . . . .	.7	1.3	.6	.9	.6	.6	.7	.6	.7	.6	.5	.5	.3
3541	Machine tools, metal cutting types . . . . .	.7	2.3	.5	.9	.8	.8	.8	.6	.6	.4	.3	.3	.2
3545	Machine tool accessories . . . . .	.5	.9	.5	.7	.5	.4	.5	1.1	.7	.3	.2	.3	.3
3542,8	Misc. metal working machinery . . . . .	.7	.8	.7	1.0	.6	.7	.8	.5	.9	.7	.7	.9	.3
355	Special industry machinery . . . . .	.6	.6	.6	.7	.6	.7	.7	.5	.5	.5	.4	.4	.4
3551	Food products machinery . . . . .	.6	.7	.7	.8	.8	.8	.6	.4	.4	.5	.4	.9	.6
3552	Textile machinery . . . . .	.8	.9	1.1	1.2	.5	1.1	1.1	1.0	.8	.8	.6	.3	.4
356	General industrial machinery . . . . .	.5	.8	.5	.7	.5	.7	.7	.5	.6	.5	.4	.4	.2
3561	Pumps and compressors . . . . .	.5	.7	.6	.6	.5	.5	.6	.4	.5	.4	.4	.4	.2
3562	Ball and roller bearings . . . . .	.5	.8	.6	.6	.5	.6	.9	.4	.6	.6	.5	.3	.1
3566	Power transmission equipment . . . . .	.6	.7	.7	1.0	.7	.9	1.0	.4	.7	.3	.3	.4	.1
357	Office and computing machines . . . . .	.2	.3	.4	.2	.2	.2	.2	.1	.3	.3	.2	.2	.1
3573	Electronic computing equipment . . . . .	.1	.2	.2	.1	.1	.1	.1	.1	.2	.2	.1	.1	.1
358	Service industry machines . . . . .	.8	2.0	1.1	1.3	.7	.9	.7	.5	.4	.8	.5	.3	.5
3585	Refrigeration machinery . . . . .	.9	2.3	.9	1.6	.7	.9	.7	.5	.4	.9	.6	.3	.6
36	ELECTRICAL EQUIPMENT AND SUPPLIES . . . . .	.7	.9	.8	1.1	.8	.7	.6	.6	.8	.6	.5	.4	.3
361	Electric test and distributing equipment . . . . .	.4	.6	.5	.8	.5	.5	.4	.4	.6	.3	.2	.3	.2
3611	Electric measuring instruments . . . . .	.2	.4	.1	.2	.2	.2	.2	.2	.2	.3	.1	.1	.1
3612	Transformers . . . . .	.6	.4	.5	2.0	.9	.5	.3	.3	.6	.4	.3	.7	.3
3613	Switchgear and switchboard apparatus . . . . .	.6	1.0	.8	.7	.6	.8	.8	.6	.9	.3	.3	.3	.3
362	Electrical industrial apparatus . . . . .	.7	.9	.9	1.3	.9	.8	.7	.4	.5	.3	.4	.4	.3
3621	Motors and generators . . . . .	.7	.9	1.2	1.3	.8	.7	.5	.5	.6	.3	.5	.3	.2
3622	Industrial controls . . . . .	.5	.3	.5	1.2	1.0	.7	.7	.2	.2	.3	.1	.3	.1
363	Household appliances	1.7	2.7	2.3	3.3	1.6	2.0	1.6	1.2	1.4	1.9	1.0	1.2	.7
3632	Household refrigerators and freezers	4.3	6.7	5.6	8.5	2.9	3.7	2.7	3.2	2.4	7.2	2.8	3.4	2.7
3633	Household laundry equipment	2.1	.4	.2	3.0	3.6	1.0	2.1	2.9	.3	.4	.1	(¹)	1.2
3634	Electric housewares and fans	1.3	2.5	.9	1.3	1.7	1.7	1.1	.7	1.9	1.1	1.2	.8	.1
364	Electric lighting and wiring equipment . . . . .	.7	.9	.7	.9	.7	.6	.5	.8	1.2	.4	.5	.4	.3
3641	Electric lamps . . . . .	.6	.4	.9	.8	.5	.3	.2	.1	3.8	.1	.4	.1	.1
3642	Lighting fixtures . . . . .	.7	.6	.8	.9	.6	.8	.7	1.2	.8	.5	.4	.5	.2
3643,4	Wiring devices . . . . .	.7	1.3	.5	.9	.9	.6	.5	.8	.5	.4	.5	.5	.4
365	Radio and TV receiving equipment	1.0	1.0	2.0	1.9	2.6	.8	.6	.5	1.7	.6	.4	.2	.2
366	Communication equipment . . . . .	.4	.3	.4	.5	.3	.4	.4	.3	.4	.4	.5	.4	.2
3661	Telephone and telegraph apparatus . . . . .	.6	.4	.8	.8	.4	.6	.5	.2	.6	.8	.9	.5	.2
3662	Radio and TV communication equipment . . . . .	.3	.3	.2	.3	.3	.2	.4	.4	.3	.3	.3	.3	.2
367	Electronic components and accessories . . . . .	.6	.6	.6	.6	.8	.7	.6	.7	.7	.5	.4	.4	.3
3671-3	Electron tubes . . . . .	.6	.1	.7	1.0	.9	.8	.7	.3	.3	.7	.4	.5	.2
3674,9	Other electronic components . . . . .	.6	.7	.6	.6	.7	.7	.6	.8	.6	.4	.4	.4	.4
369	Miscellaneous electrical equipment and supplies . . . . .	.6	1.3	.6	.8	.6	.7	.4	.5	.7	.8	.2	.3	.2
3694	Engine electrical equipment . . . . .	.5	.6	.7	1.1	.6	.7	.2	.2	.5	1.1	.2	.3	.2
37	TRANSPORTATION EQUIPMENT	1.1	1.3	1.0	1.5	1.1	1.2	.8	1.1	1.4	1.1	.9	1.0	.7
371	Motor vehicles and equipment	1.0	1.4	1.0	1.3	.9	1.0	.6	1.3	1.8	.9	.7	.6	.3
3711	Motor vehicles . . . . .	.9	1.5	.6	.9	1.0	1.1	.5	.6	2.8	1.3	.4	.4	.2
3712	Passenger car bodies	2.8	1.0	1.3	.2	.2	.2	(¹)	(¹)	3.8	.1	.1	.1	(¹)
3713	Truck and bus bodies	1.4	2.0	1.7	2.3	.9	1.7	.3	.9	1.0	1.3	3.4	1.0	.5
3714	Motor vehicle parts and accessories	1.0	1.2	1.0	1.6	.8	1.0	.7	2.2	.7	.6	.9	.8	.4
372	Aircraft and parts . . . . .	.4	.4	.4	.4	.3	.4	.5	.4	.6	.4	.4	.3	.3
3721	Aircraft . . . . .	.4	.3	.4	.4	.3	.4	.6	.4	.6	.3	.4	.3	.2
3722	Aircraft engines and engine parts . . . . .	.3	.6	.2	.3	.2	.3	.3	.2	.4	.3	.2	.3	.3
3723,9	Other aircraft parts and equipment	2.6	.4	.6	.7	.5	.7	.5	.8	.7	.6	.6	.4	(¹)
373	Ship and boat building and repairing	2.4	1.9	2.1	2.1	2.5	3.7	2.6	2.4	1.9	2.9	1.9	2.5	1.7
3731	Ship building and repairing	2.8	2.0	2.2	2.3	3.1	4.6	3.1	2.9	2.1	3.6	2.4	3.1	2.0
374	Railroad equipment	2.8	1.7	2.5	2.6	2.8	2.8	2.8	2.3	4.2	2.2	4.3	4.3	1.5
375,9	Other transportation equipment	1.9	3.6	2.1	5.5	2.0	1.1	.7	.4	.7	1.0	1.3	2.0	1.9

See footnotes at end of table.

Table 1. Recall rates by industry, 1976-77—Continued

[Per 100 employees]

SIC Code	Industry	1977												
		Ann. Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
DURABLE GOODS—Continued														
FABRICATED METAL PRODUCTS — Continued														
346	Metal stampings	-	1.0	0.7	0.6	0.6	0.8	0.6	1.2	1.0	-	-	-	-
348	Miscellaneous fabricated wire products	-	1.2	1.9	.9	1.0	.8	.7	1.1	1.5	-	-	-	-
349	Miscellaneous fabricated metal products	-	.8	1.6	.7	.5	.5	.4	1.1	.3	-	-	-	-
3494,8	Valves, pipe, and pipe fittings	-	.6	.4	.4	.6	.4	.5	.9	.4	-	-	-	-
35	MACHINERY, EXCEPT ELECTRICAL	-	.9	.7	.5	.7	.5	.4	.7	.5	-	-	-	-
351	Engines and turbines	-	1.0	.6	.3	.2	.6	.5	.4	.4	-	-	-	-
3511	Steam engines and turbines	-	.1	(¹)	.1	(¹)	(¹)	.1	(¹)	(¹)	-	-	-	-
3519	Internal combustion engines, nec	-	1.6	.9	.5	.2	.9	.7	.6	.6	-	-	-	-
352	Farm machinery	-	1.3	.6	1.0	.6	.7	.5	1.0	1.4	-	-	-	-
353	Construction and related machinery	-	1.7	1.6	.4	1.5	.5	.6	1.8	.5	-	-	-	-
3531,2	Construction and mining machinery	-	3.0	2.7	.4	2.5	.7	.7	3.2	.6	-	-	-	-
3533	Oil field machinery	-	.3	.4	.3	.3	.3	.2	.2	.3	-	-	-	-
3535,6	Conveyors, hoists, cranes, monorails	-	.3	.3	.4	.6	.6	.6	.5	.5	-	-	-	-
354	Metal working machinery	-	.5	.5	.6	.5	.4	.3	.4	.3	-	-	-	-
3541	Machine tools, metal cutting types	-	.4	.4	.4	.3	.3	.2	.1	.1	-	-	-	-
3545	Machine tool accessories	-	.3	.4	.4	.3	.3	.3	.9	.3	-	-	-	-
3542,8	Misc. metal working machinery	-	.6	.6	1.2	.8	.9	.6	.7	.6	-	-	-	-
355	Special industry machinery	-	.5	.4	.3	.3	.4	.4	1.0	.6	-	-	-	-
3551	Food products machinery	-	.9	.4	.3	.5	.5	.4	.6	.7	-	-	-	-
3552	Textile machinery	-	.4	.3	.4	.3	.5	.8	4.3	1.1	-	-	-	-
356	General industrial machinery	-	.4	.7	.5	.4	.5	.4	.4	.4	-	-	-	-
3561	Pumps and compressors	-	.6	.5	.5	.3	.4	.3	.4	.3	-	-	-	-
3562	Ball and roller bearings	-	.2	1.5	.7	.6	.5	.3	.2	.3	-	-	-	-
3566	Power transmission equipment	-	.4	.7	.5	.3	.5	.4	.4	.5	-	-	-	-
357	Office and computing machines	-	.1	.1	.2	.1	.1	.1	.1	.2	-	-	-	-
3573	Electronic computing equipment	-	.1	.2	.1	.1	.1	.1	.1	.1	-	-	-	-
358	Service industry machines	-	1.3	.9	.7	.5	.5	.5	.4	.6	-	-	-	-
3585	Refrigeration machinery	-	1.6	1.2	.8	.6	.3	.6	.3	.5	-	-	-	-
36	ELECTRICAL EQUIPMENT AND SUPPLIES	-	.8	.7	.7	.6	.6	.5	.4	.8	-	-	-	-
361	Electric test and distributing equipment	-	.4	.9	.2	.2	.3	.3	.3	.3	-	-	-	-
3611	Electric measuring instruments	-	.1	.1	.2	.1	.2	.2	.2	.1	-	-	-	-
3612	Transformers	-	1.0	.8	.3	.4	.4	.5	.6	.4	-	-	-	-
3613	Switchgear and switchboard apparatus	-	.4	1.7	.3	.3	.5	.2	.2	.4	-	-	-	-
362	Electrical industrial apparatus	-	.7	.8	.6	.4	.4	.4	.2	.4	-	-	-	-
3621	Motors and generators	-	.9	1.0	.6	.5	.4	.5	.2	.6	-	-	-	-
3622	Industrial controls	-	.4	.3	.2	.3	.2	.2	.3	.3	-	-	-	-
363	Household appliances	-	1.7	1.2	1.6	1.6	1.2	.9	.5	1.5	-	-	-	-
3632	Household refrigerators and freezers	-	4.7	1.7	2.5	2.3	2.4	1.2	.9	1.9	-	-	-	-
3633	Household laundry equipment	-	1.8	1.1	.4	1.0	.2	.1	.1	.3	-	-	-	-
3634	Electric housewares and fans	-	.9	.9	1.5	1.3	1.4	1.2	.4	1.9	-	-	-	-
364	Electric lighting and wiring equipment	-	1.0	1.1	.6	.3	.4	.5	.8	1.0	-	-	-	-
3641	Electric lamps	-	.2	2.1	.4	.3	.4	.7	.2	2.0	-	-	-	-
3642	Lighting fixtures	-	.9	1.1	.5	.4	.4	.6	1.5	.9	-	-	-	-
3643,4	Wiring devices	-	1.3	.8	.7	.3	.5	.3	.6	.7	-	-	-	-
365	Radio and TV receiving equipment	-	2.0	1.3	2.0	1.8	1.4	.9	.5	2.4	-	-	-	-
366	Communication equipment	-	.5	.4	.4	.3	.3	.3	.3	.4	-	-	-	-
3661	Telephone and telegraph apparatus	-	.9	.5	.6	.4	.5	.3	.2	.3	-	-	-	-
3662	Radio and TV communication equipment	-	.3	.3	.3	.2	.3	.3	.3	.4	-	-	-	-
367	Electronic components and accessories	-	.6	.7	.6	.6	.6	.5	.6	.9	-	-	-	-
3671-3	Electron tubes	-	.6	.8	.3	.7	1.4	.4	.1	1.9	-	-	-	-
3674,9	Other electronic components	-	.6	.7	.6	.6	.5	.5	.6	.8	-	-	-	-
369	Miscellaneous electrical equipment and supplies	-	.5	(¹)	.4	.5	.5	.4	.5	.7	-	-	-	-
3694	Engine electrical equipment	-	.7	.6	.4	.6	.6	.4	.4	.5	-	-	-	-
37	TRANSPORTATION EQUIPMENT	-	1.2	1.5	1.0	.8	.9	1.3	.9	1.6	-	-	-	-
371	Motor vehicles and equipment	-	.6	1.3	.5	.5	.7	1.2	.5	1.6	-	-	-	-
3711	Motor vehicles	-	.4	2.2	.3	.3	.4	1.6	.3	2.7	-	-	-	-
3712	Passenger car bodies	-	.1	(¹)	(¹)	.4	(¹)	(¹)	(¹)	.1	-	-	-	-
3713	Truck and bus bodies	-	.9	1.6	.7	.4	1.1	.7	.2	.5	-	-	-	-
3714	Motor vehicle parts and accessories	-	.8	.7	.8	.7	.9	.9	.7	1.0	-	-	-	-
372	Aircraft and parts	-	.5	.5	.5	.4	.5	.5	.5	.4	-	-	-	-
3721	Aircraft	-	.5	.5	.6	.3	.4	.6	.5	.4	-	-	-	-
3722	Aircraft engines and engine parts	-	.5	.5	.3	.2	.4	.3	.3	.4	-	-	-	-
3723,9	Other aircraft parts and equipment	-	.7	.7	.7	.8	.9	.6	.5	.7	-	-	-	-
373	Ship and boat building and repairing	-	2.8	2.8	2.6	2.2	1.8	3.6	3.0	2.2	-	-	-	-
3731	Ship building and repairing	-	3.5	2.9	3.0	2.5	2.3	4.4	3.5	2.6	-	-	-	-
374	Railroad equipment	-	1.7	3.3	2.7	2.0	2.0	3.1	1.7	1.1	-	-	-	-
375,9	Other transportation equipment	-	4.5	3.0	2.7	1.6	1.7	.8	1.1	3.8	-	-	-	-

See footnotes at end of table.

Table 1. Recall rates by industry, 1976-77—Continued

[Per 100 employees]

SIC Code	Industry	1976												
		Ann. Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
DURABLE GOODS—Continued														
38	INSTRUMENTS AND RELATED PRODUCTS . . .	0.3	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.3
381	Engineering and scientific instruments . . . . .	.3	.2	1.0	.1	.3	.2	.2	.3	.2	.3	.2	.2	.3
382	Mechanical measuring and control devices . . . . .	.4	.9	.5	.4	.3	.4	.5	.3	.5	.3	.3	.4	.4
3821	Mechanical measuring devices . . . . .	.3	.5	.3	.3	.3	.3	.5	.2	.3	.3	.3	.4	.3
3822	Automatic temperature controls . . . . .	.6	1.7	.9	.4	.3	.4	.6	.4	.7	.3	.4	.4	.7
383,5	Optical and ophthalmic goods . . . . .	.4	.4	.4	.4	.3	.3	.3	1.0	.3	.2	.2	.3	.1
384	Medical instruments and supplies . . . . .	.4	.3	.3	.5	.3	.3	.4	.3	.4	.6	.3	.2	.3
386	Photographic equipment and supplies	-	(¹)	.1	.1	.1	(¹)	.1	.1	.2	(¹)	(¹)	(¹)	(¹)
387	Watches, clocks, and watchcases	1.0	1.8	1.3	.9	1.6	1.0	.8	.3	1.1	.6	1.2	.8	1.0
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	1.2	2.5	1.3	1.4	1.3	1.3	1.1	1.4	1.3	.9	.8	.5	.5
391	Jewelry, silverware, and plated ware . . . . .	.9	.7	.7	1.1	.6	.6	.7	2.9	1.1	1.2	.8	.4	.4
394	Toys and sporting goods	2.2	5.6	2.7	2.9	2.8	2.6	2.1	1.7	2.2	1.1	1.0	.8	.9
3941-3	Games, toys, dolls, and play vehicles	3.2	9.6	3.7	4.9	4.7	4.4	3.0	2.0	2.4	1.2	1.0	.6	1.1
3949	Sporting and athletic goods, nec	1.1	1.5	1.8	.8	.9	.6	1.0	1.2	2.0	.9	.9	.9	.7
395	Pens, pencils, office and art supplies . . . . .	.6	1.8	.3	.5	.5	.8	1.0	.2	.7	.3	.8	.2	.2
396	Costume jewelry and notions	1.2	1.3	1.4	1.2	1.2	1.2	.9	2.3	1.5	1.2	.6	.5	.6
393,9	Other manufacturing industries . . . . .	.7	1.7	.7	.7	.6	.6	.6	.7	.8	.8	.7	.5	.4
NONDURABLE GOODS														
20	FOOD AND KINDRED PRODUCTS	1.6	1.8	1.3	1.6	1.6	1.9	1.5	2.2	2.4	1.8	1.5	1.1	1.0
201	Meat products	1.1	.9	1.0	1.6	1.6	1.5	1.0	1.2	1.1	1.0	1.0	.9	.7
2011	Meat packing plants	1.3	1.1	1.1	1.6	1.4	1.2	1.2	1.4	1.4	1.3	1.4	1.2	1.1
2015	Poultry dressing plants . . . . .	.9	.7	.6	1.8	1.4	1.6	1.0	1.1	.8	.6	.5	.4	.3
204	Grain mill products . . . . .	.8	.9	.6	.5	1.0	1.6	.8	1.2	.6	.3	.5	.4	.6
2041	Flour and other grain mill products . . . . .	.6	1.0	.9	.5	.8	.8	.6	.4	.4	.3	.7	.8	.5
2042	Prepared feeds for animals and fowls . . . . .	.4	.4	.4	.3	.5	.9	.6	.6	.4	.1	.1	.2	.2
205	Bakery products . . . . .	.5	.4	.4	.6	.7	.6	.9	.3	.4	.4	.3	.3	.2
2051	Bread, cake, and related products . . . . .	.3	.2	.3	.4	.3	.4	.3	.2	.4	.3	.2	.2	.2
2052	Cookies and crackers	1.2	1.1	.7	1.3	2.8	1.6	3.6	.6	.5	.8	.8	.4	.6
207	Confectionery and related products	2.9	4.1	2.7	4.2	2.9	3.2	2.8	3.3	4.4	2.0	2.0	1.8	1.8
2071	Confectionery products	3.5	4.7	3.2	5.6	3.6	3.3	2.8	3.8	5.8	2.7	2.6	2.2	2.2
208	Beverages	1.3	1.3	1.5	1.3	1.0	1.8	1.4	1.1	1.1	1.0	1.1	1.4	1.1
2082	Malt liquors	2.2	2.3	3.2	3.2	2.0	2.1	2.3	2.4	1.6	2.0	1.6	2.3	1.5
21	TOBACCO MANUFACTURES	2.2	.4	.3	.1	.6	2.0	1.6	6.9	7.4	3.0	.8	2.4	.5
211	Cigarettes	4.3	(¹)	(¹)	(¹)	.2	(¹)	.3	.6	.2	.4	(¹)	.3	(¹)
212	Cigars . . . . .	.6	.5	.3	.5	.4	.2	1.2	.6	1.9	.4	.3	.8	.4
22	TEXTILE MILL PRODUCTS . . . . .	.7	1.0	.7	.8	.6	.6	.6	1.0	.8	.6	.6	.6	.7
221	Weaving mills, cotton . . . . .	.2	.3	.3	.3	.2	.2	.2	.5	.3	.1	.2	.2	.1
222	Weaving mills, synthetics . . . . .	.3	.4	.3	.4	.3	.3	.2	.2	.3	.2	.2	.2	.2
223	Weaving and finishing mills, wool . . . . .	.9	1.1	.8	.6	.5	.6	.4	1.2	.6	1.1	.9	1.3	1.3
224	Narrow fabric mills	1.0	1.2	.7	.5	.5	.8	.9	2.9	1.2	.6	.5	.7	.9
225	Knitting mills	1.3	1.8	1.2	1.6	1.2	1.1	1.0	1.7	1.3	.9	.9	1.1	1.5
2251	Women's hosiery, except socks . . . . .	.6	2.3	.7	.8	.6	.5	.4	.4	.4	.4	.4	.5	.3
2252	Hosiery, nec . . . . .	.5	1.0	.4	.6	.4	.4	.3	.4	.4	.5	.4	.4	.2
2254	Knit underwear mills . . . . .	.6	1.2	.3	.5	.5	.4	.6	.5	.6	.5	.6	.8	.4
226	Textile finishing, except wool . . . . .	.6	1.0	.5	.4	.4	.4	.3	1.2	.5	.5	.5	.8	.5
227	Floor covering mills . . . . .	.7	.8	.9	1.1	.5	.6	.6	.8	.7	.5	1.1	.5	.7
228	Yarn and thread mills . . . . .	.6	.6	.4	.5	.7	.6	.5	.8	.7	.7	.5	.4	.4
229	Miscellaneous textile goods . . . . .	.9	1.8	.8	.7	1.0	.8	.7	.8	1.3	1.0	.9	.7	.7

See footnotes at end of table.

Table 1. Recall rates by industry, 1976-77—Continued

[Per 100 employees]

SIC Code	Industry	1977												
		Ann. Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
DURABLE GOODS—Continued														
38	INSTRUMENTS AND RELATED PRODUCTS . . .	-	0.4	0.4	0.3	0.3	0.3	0.2	0.4	0.3	-	-	-	-
381	Engineering and scientific instruments	-	.3	.2	.1	.1	.3	.1	.2	.2	-	-	-	-
382	Mechanical measuring and control devices	-	.6	.2	.4	.4	.3	.3	.4	.2	-	-	-	-
3821	Mechanical measuring devices	-	.2	.1	.2	.2	.2	.2	.2	.2	-	-	-	-
3822	Automatic temperature controls	-	1.4	.4	.7	.7	.4	.4	.6	.1	-	-	-	-
383,5	Optical and ophthalmic goods	-	.3	.4	.3	.5	.3	.4	.8	.3	-	-	-	-
384	Medical instruments and supplies	-	.6	.9	.6	.4	.3	.2	.5	.4	-	-	-	-
386	Photographic equipment and supplies	-	.1	.1	(1)	(1)	.1	(1)	.1	.1	-	-	-	-
387	Watches, clocks, and watchcases	-	1.0	.5	1.0	1.3	1.3	.5	.9	1.2	-	-	-	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	-	3.0	1.9	1.5	1.0	1.1	1.0	1.5	1.3	-	-	-	-
391	Jewelry, silverware, and plated ware	-	.7	.8	1.0	.6	.8	.8	1.6	1.9	-	-	-	-
394	Toys and sporting goods	-	6.8	3.8	2.4	1.7	1.7	1.2	1.9	1.6	-	-	-	-
3941-3	Games, toys, dolls, and play vehicles	-	12.2	6.6	3.4	2.7	2.5	1.7	2.8	1.3	-	-	-	-
3949	Sporting and athletic goods, nec	-	1.6	1.0	1.4	.7	.7	.7	.9	2.1	-	-	-	-
395	Pens, pencils, office and art supplies	-	.7	.2	.6	.2	.5	.3	.5	.6	-	-	-	-
396	Costume jewelry and notions	-	1.8	1.7	1.6	1.4	1.3	.8	1.0	1.0	-	-	-	-
393,9	Other manufacturing industries	-	2.0	1.2	1.3	.7	.7	1.0	1.4	1.2	-	-	-	-
NONDURABLE GOODS														
20	FOOD AND KINDRED PRODUCTS	-	1.6	1.5	1.7	1.3	1.6	1.8	2.3	1.9	-	-	-	-
201	Meat products	-	1.3	.9	1.8	1.1	1.8	1.2	.9	1.2	-	-	-	-
2011	Meat packing plants	-	1.6	1.0	1.7	1.2	1.3	1.4	1.2	1.7	-	-	-	-
2015	Poultry dressing plants	-	1.1	.2	2.1	.8	2.2	.7	.5	.8	-	-	-	-
204	Grain mill products	-	.5	.5	.5	.9	1.5	.9	.6	.7	-	-	-	-
2041	Flour and other grain mill products	-	.2	.8	.6	.6	.5	.6	.8	.3	-	-	-	-
2042	Prepared feeds for animals and fowls	-	.3	.3	.3	.7	1.6	.7	.4	.6	-	-	-	-
205	Bakery products	-	.5	1.1	.7	.4	.4	.7	.5	.3	-	-	-	-
2051	Bread, cake, and related products	-	.3	.3	.3	.2	.3	.3	.2	.2	-	-	-	-
2052	Cookies and crackers	-	1.7	5.1	2.5	1.5	1.2	2.7	1.7	1.0	-	-	-	-
207	Confectionery and related products	-	3.3	3.3	3.5	3.3	3.5	3.3	5.1	3.9	-	-	-	-
2071	Confectionery products	-	4.2	4.2	4.3	4.0	4.1	3.6	5.9	5.4	-	-	-	-
208	Beverages	-	1.3	1.6	1.2	1.2	1.3	2.0	1.0	.8	-	-	-	-
2082	Malt liquors	-	2.8	3.6	2.4	1.7	2.5	3.1	1.9	1.5	-	-	-	-
21	TOBACCO MANUFACTURES	-	.4	.3	.8	.3	.3	1.0	5.3	5.6	-	-	-	-
211	Cigarettes	-	.1	.1	.0	.2	.2	.0	.4	.2	-	-	-	-
212	Cigars	-	.8	.6	.3	.8	.4	.7	2.1	2.2	-	-	-	-
22	TEXTILE MILL PRODUCTS	-	.9	.8	.7	.7	.5	.5	.8	.6	-	-	-	-
221	Weaving mills, cotton	-	.2	.1	.1	.2	.2	.4	.2	.2	-	-	-	-
222	Weaving mills, synthetics	-	.4	.3	.4	.9	.3	.3	.3	.4	-	-	-	-
223	Weaving and finishing mills, wool	-	1.1	.6	.8	1.1	.5	.5	.9	.6	-	-	-	-
224	Narrow fabric mills	-	.9	.6	.7	.6	.6	.8	3.0	1.1	-	-	-	-
225	Knitting mills	-	1.7	1.5	1.2	1.2	.8	.7	1.0	.8	-	-	-	-
2251	Women's hosiery, except socks	-	.7	.5	.5	.4	.6	.7	.7	.8	-	-	-	-
2252	Hosiery, nec	-	.5	.4	.2	.4	.4	.3	.6	.4	-	-	-	-
2254	Knit underwear mills	-	.5	1.3	.9	.3	.4	.4	.2	.6	-	-	-	-
226	Textile finishing, except wool	-	.6	1.1	1.2	.8	.5	.5	1.3	.6	-	-	-	-
227	Floor covering mills	-	1.0	.5	.4	.4	.6	.5	.6	.4	-	-	-	-
228	Yarn and thread mills	-	.5	.3	.5	.4	.4	.4	.9	.5	-	-	-	-
229	Miscellaneous textile goods	-	1.3	2.4	.9	.8	.7	.4	1.1	.7	-	-	-	-

See footnotes at end of table.

Table 1. Recall rates by industry, 1976-77—Continued

[Per 100 employees]

SIC Code	Industry	1976												
		Ann. Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
NONDURABLE GOODS—Continued														
23	APPAREL AND OTHER TEXTILE PRODUCTS	1.5	2.1	1.6	1.3	1.2	1.4	1.2	2.3	2.0	1.4	1.3	1.2	1.2
231	Men's and boys' suits and coats	1.3	1.8	1.6	.9	.6	1.6	.7	2.6	1.5	.9	.4	1.0	2.5
232	Men's and boys' furnishings	.9	1.2	.8	.8	.6	.9	.7	1.5	1.4	.8	.6	.6	.7
2321	Men's and boys' shirts and nightwear	.9	1.4	.8	.8	.7	.8	.6	1.5	1.5	.8	.7	.5	.5
2327	Men's and boys' separate trousers	.4	.6	.3	.2	.3	.2	.2	.3	1.4	.4	.3	.2	.5
2328	Men's and boys' work clothing	.7	.5	.4	1.0	.4	.9	.5	1.7	.9	.7	.6	.6	.4
234	Women's and children's undergarments	1.2	1.6	1.9	1.1	.9	.6	.8	2.1	1.8	1.0	1.1	.8	.6
2341	Women's and children's underwear	1.3	1.5	2.3	1.2	1.0	.7	.9	2.1	1.8	1.1	1.3	.8	.7
2342	Corsets and allied garments	.9	1.9	.5	.7	.6	.3	.5	1.8	1.7	.6	.7	.6	.3
26	PAPER AND ALLIED PRODUCTS	.6	1.2	.8	.8	.6	.6	.6	.5	.6	.5	.5	.5	.5
261,2,6	Paper and pulp mills	.4	.7	.4	.7	.2	.4	.3	.2	.4	.6	.2	.3	.5
263	Paperboard mills	.3	.1	.5	.6	.3	.4	.2	.2	.3	.2	.1	.2	.3
264	Miscellaneous converted paper products	.7	1.7	1.0	.7	.6	.5	.7	.6	.6	.5	.6	.5	.5
2643	Bags, except textile bags	.9	3.2	1.4	.8	1.1	.6	1.1	.6	.8	.4	.3	.3	.4
265	Paperboard containers and boxes	.9	1.6	1.0	1.1	1.0	.8	.8	.7	.9	.5	.7	.7	.6
2651,2	Folding and setup paperboard boxes	1.2	2.3	1.6	1.5	1.5	1.1	1.0	1.2	1.6	.8	.7	.6	.6
2653	Corrugated and solid fiber boxes	.5	.6	.5	.5	.5	.7	.6	.5	.5	.2	.3	.6	.2
27	PRINTING AND PUBLISHING	.5	.6	.6	.7	.5	.5	.5	.5	.5	.4	.4	.5	.5
28	CHEMICALS AND ALLIED PRODUCTS	.3	.5	.5	.4	.4	.4	.4	.3	.3	.2	.2	.2	.2
281	Industrial chemicals	.2	.2	.2	.3	.3	.2	.2	.2	.1	.1	.1	.1	.1
282	Plastics materials and synthetics	.4	.9	.8	.4	.4	.3	.4	.3	.3	.4	.3	.5	.5
2821	Plastics materials and resins	.3	.8	.6	.3	.3	.3	.3	.2	.3	.1	.2	.2	.1
2823,4	Synthetic fibers	.6	.9	1.0	.5	.5	.3	.5	.4	.4	.4	.5	.4	.8
283	Drugs	.2	.4	.1	.2	.1	.4	.4	.2	.2	.1	.1	.1	.1
2834	Pharmaceutical preparations	.2	.4	.1	.2	.2	.4	.4	.2	.2	.1	.1	.1	.1
284	Soap, cleaners, and toilet goods	.7	1.0	1.1	.6	.8	.9	.7	1.0	.6	.3	.3	.3	.2
2841	Soap and other detergents	.7	1.1	.6	.3	.4	.8	.7	1.5	.9	.3	.3	.3	.2
2844	Toilet preparations	.9	1.3	2.0	1.0	1.5	1.4	.8	.9	.5	.3	.4	.4	.3
285	Paints and allied products	.3	.4	.4	.4	.4	.5	.4	.2	.2	.1	.1	.1	.1
286,9	Other chemical products	.5	1.0	.2	.5	.4	.5	.5	.5	.3	.6	.5	.3	.3
29	PETROLEUM AND COAL PRODUCTS	.2	.6	.1	.4	.4	.2	.3	.1	.1	.2	.1	.1	.3
291	Petroleum refining	-	.1	⁽¹⁾	.1	⁽¹⁾	.1	.1	⁽¹⁾	⁽¹⁾	⁽¹⁾	⁽¹⁾	⁽¹⁾	⁽¹⁾
295,9	Other petroleum and coal products	1.0	2.8	.4	1.6	1.7	.7	.9	.4	.5	.5	.5	.3	1.4
30	RUBBER AND PLASTICS PRODUCTS, NEC	.9	1.6	1.2	1.1	.9	.8	.6	1.0	.8	.7	.8	.9	.7
301	Tires and inner tubes	.4	.3	.5	.8	.6	.5	.1	.2	.2	.8	.6	.4	.3
302,3,6	Other rubber products	.7	1.3	1.3	.8	.8	.6	.5	.6	.6	.5	.5	.5	.4
307	Miscellaneous plastics products	1.1	2.2	1.4	1.3	1.0	.9	.7	1.3	1.1	.7	.9	1.2	.9
31	LEATHER AND LEATHER PRODUCTS	1.4	1.6	1.7	1.1	.9	.9	.8	2.5	2.8	1.3	1.3	1.3	.8
311	Leather tanning and finishing	.8	.5	.4	.2	.2	.7	.3	.9	1.0	.7	.6	2.0	2.0
314	Footwear, except rubber	1.2	1.3	1.3	1.2	.8	.7	.5	1.9	3.2	.8	1.3	1.1	.8
NONMANUFACTURING														
10	METAL MINING	.6	1.6	.6	.5	1.5	.5	.5	.9	.3	.2	.2	.3	.2
101	Iron ores	.6	1.0	1.3	.8	2.0	.3	.3	.2	.5	.1	.1	.7	.1
102	Copper ores	1.0	3.5	.5	.6	2.2	.9	.8	2.2	.4	.4	.4	.1	.1
11,12	COAL MINING	.2	.2	.2	.2	.2	.2	.2	.3	.3	.4	.2	.2	.3
12	Bituminous coal and lignite mining	.2	.2	.2	.2	.2	.2	.2	.3	.3	.3	.1	.2	.2

¹ Less than 0.05.
² 11-month average.
³ 9-month average.
⁴ 6-month average.

Table 1. Recall rates by industry, 1976-77—Continued

[Per 100 employees]

SIC Code	Industry	1977												
		Ann. Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
NONDURABLE GOODS—Continued														
23	APPAREL AND OTHER TEXTILE PRODUCTS	-	2.2	2.0	1.7	1.6	1.6	1.6	2.1	1.8	-	-	-	-
231	Men's and boys' suits and coats	-	1.7	.7	.9	2.2	2.3	1.1	3.9	2.0	-	-	-	-
232	Men's and boys' furnishings	-	1.3	1.6	1.5	1.4	1.0	.9	1.4	1.5	-	-	-	-
2321	Men's and boys' shirts and nightwear	-	1.0	1.4	1.2	1.8	.9	1.1	1.7	1.9	-	-	-	-
2327	Men's and boys' separate trousers	-	.5	.4	1.6	.5	1.0	.6	.7	1.3	-	-	-	-
2328	Men's and boys' work clothing	-	1.0	.6	.6	.8	.7	.6	.5	1.1	-	-	-	-
234	Women's and children's undergarments	-	1.8	1.4	1.3	.8	1.4	1.2	1.6	1.8	-	-	-	-
2341	Women's and children's underwear	-	2.1	1.6	1.3	.8	1.6	1.4	1.7	1.7	-	-	-	-
2342	Corsets and allied garments	-	.7	1.0	1.2	.8	.9	.6	1.1	2.1	-	-	-	-
26	PAPER AND ALLIED PRODUCTS	-	.8	1.0	.7	.7	.5	.6	.6	.6	-	-	-	-
261,2,6	Paper and pulp mills	-	.4	.6	.5	.5	.4	.7	.7	.2	-	-	-	-
263	Paperboard mills	-	.7	1.6	.3	.3	.3	.3	.4	.4	-	-	-	-
264	Miscellaneous converted paper products	-	1.0	1.0	.6	.7	.6	.6	.5	.7	-	-	-	-
2643	Bags, except textile bags	-	.3	.5	.6	.6	.5	.6	.7	.3	-	-	-	-
265	Paperboard containers and boxes	-	1.1	1.2	1.2	.9	.7	.6	.7	.9	-	-	-	-
2651,2	Folding and setup paperboard boxes	-	1.7	1.8	1.4	1.0	.8	1.0	1.4	1.5	-	-	-	-
2653	Corrugated and solid fiber boxes	-	.5	.6	.9	.9	.6	.4	.5	.5	-	-	-	-
27	PRINTING AND PUBLISHING	-	.6	.5	.6	.5	.7	.5	.5	.5	-	-	-	-
28	CHEMICALS AND ALLIED PRODUCTS	-	.5	.5	.3	.3	.3	.3	.2	.3	-	-	-	-
281	Industrial chemicals	-	.3	.3	.2	.1	.2	.3	.1	.1	-	-	-	-
282	Plastics materials and synthetics	-	.6	.5	.3	.4	.3	.2	.2	.2	-	-	-	-
2821	Plastics materials and resins	-	.2	.2	.3	.1	.2	.2	.1	.1	-	-	-	-
2823,4	Synthetic fibers	-	1.0	.7	.4	.8	.4	.2	.2	.2	-	-	-	-
283	Drugs	-	.2	.2	.1	.2	.3	.4	.2	.2	-	-	-	-
2834	Pharmaceutical preparations	-	.2	.2	.1	.2	.4	.4	.2	.2	-	-	-	-
284	Soap, cleaners, and toilet goods	-	1.2	.9	.5	.6	.6	.6	.9	1.1	-	-	-	-
2841	Soap and other detergents	-	.6	.7	.3	1.1	.8	.5	.9	.8	-	-	-	-
2844	Toilet preparations	-	1.9	1.2	.6	.5	.8	1.0	1.1	1.5	-	-	-	-
285	Paints and allied products	-	.5	.3	.5	.4	.6	.3	.1	.2	-	-	-	-
285,9	Other chemical products	-	.4	1.8	.5	.3	.4	.5	.3	.2	-	-	-	-
29	PETROLEUM AND COAL PRODUCTS	-	.5	.4	.4	.5	.3	.2	.1	.1	-	-	-	-
291	Petroleum refining	-	.1	.0	.1	(¹)	.1	.1	.1	(¹)	-	-	-	-
295,9	Other petroleum and coal products	-	2.1	1.7	1.3	2.0	.9	.4	.3	.4	-	-	-	-
30	RUBBER AND PLASTICS PRODUCTS, NEC	-	1.2	.9	1.0	.8	.7	.7	.7	.7	-	-	-	-
301	Tires and inner tubes	-	.3	.2	.3	.3	.1	.3	.1	.3	-	-	-	-
302,3,6	Other rubber products	-	.7	.8	1.0	.9	.5	.6	.7	.5	-	-	-	-
307	Miscellaneous plastics products	-	1.8	1.2	1.2	1.0	.9	.9	.9	.9	-	-	-	-
31	LEATHER AND LEATHER PRODUCTS	-	2.5	1.8	1.2	.9	1.2	1.0	2.7	2.8	-	-	-	-
311	Leather tanning and finishing	-	3.9	1.4	.9	.5	1.1	1.0	1.1	2.0	-	-	-	-
314	Footwear, except rubber	-	1.8	1.7	1.3	.8	1.0	.7	2.1	3.3	-	-	-	-
NONMANUFACTURING														
10	METAL MINING	-	.8	.3	.4	.8	.5	.2	.1	.6	-	-	-	-
101	Iron ores	-	1.5	.6	.4	1.3	.9	.2	.1	2.8	-	-	-	-
102	Copper ores	-	1.0	.1	.4	.9	.4	.3	(¹)	.2	-	-	-	-
11,12	COAL MINING	-	.2	.9	.2	1.3	.2	.3	.1	.1	-	-	-	-
12	Bituminous coal and lignite mining	-	.2	.9	.2	1.2	.2	.3	.1	.1	-	-	-	-

CHARTS

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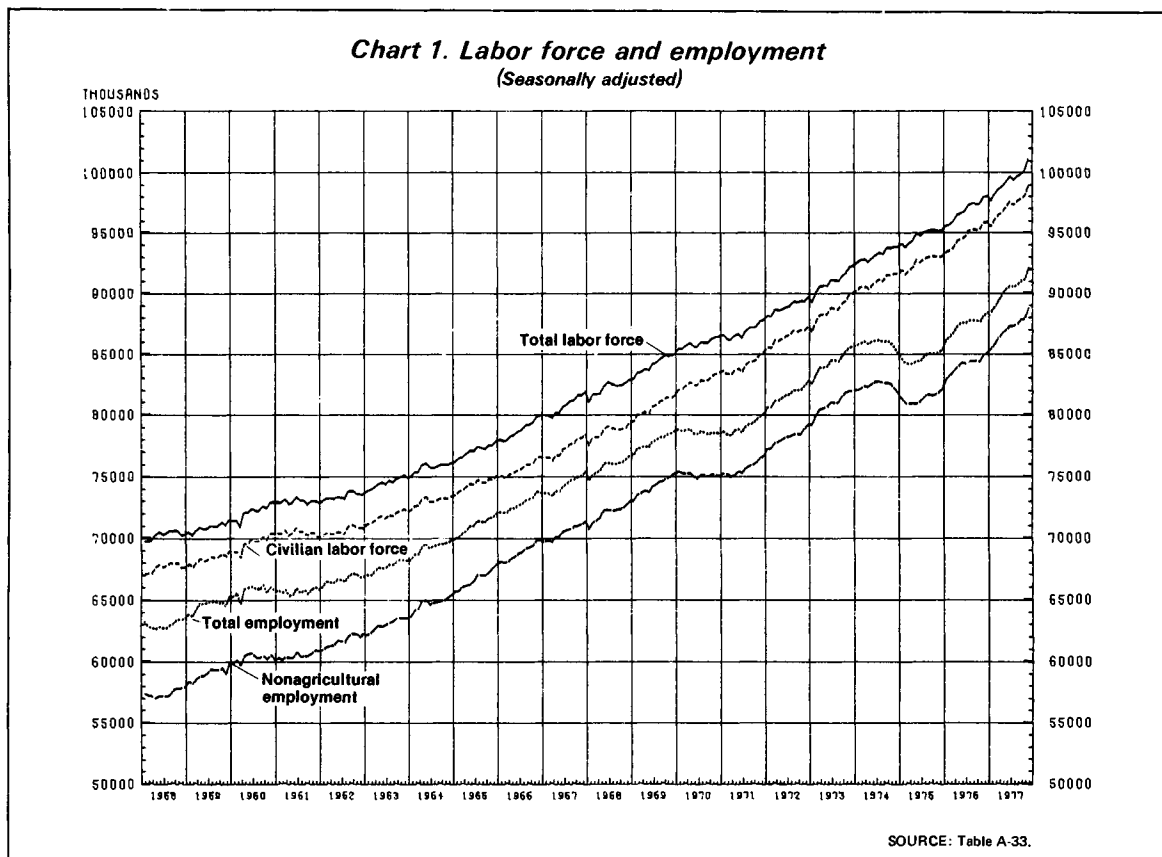


Chart 2. Major unemployment indicators
(Seasonally adjusted)

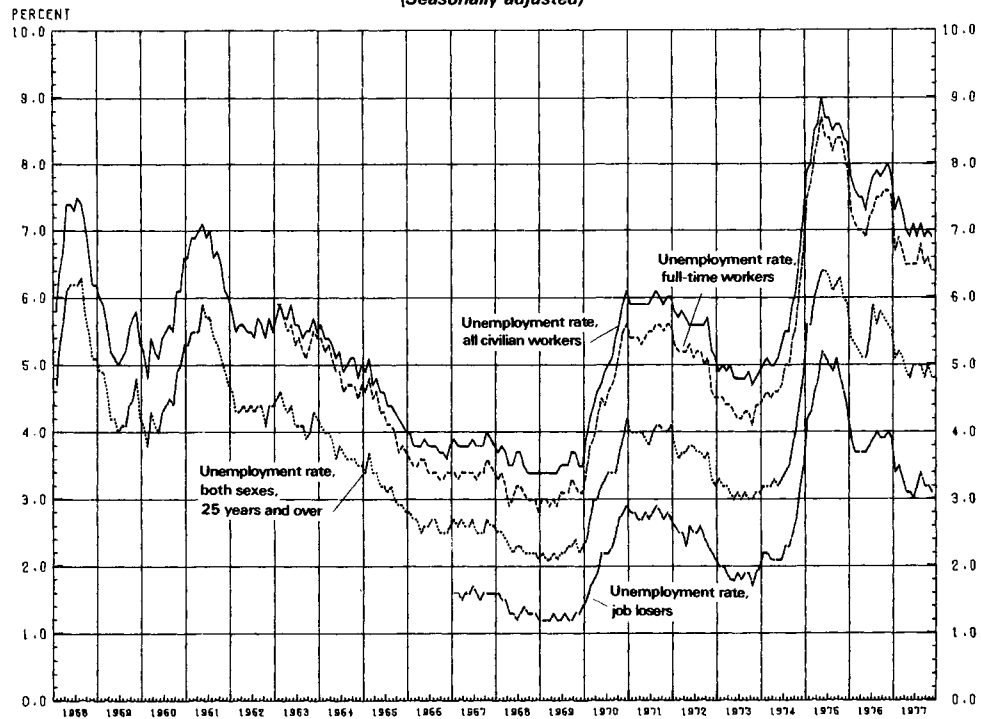


Chart 3. Civilian labor force participation rates by sex and age
(Seasonally adjusted)

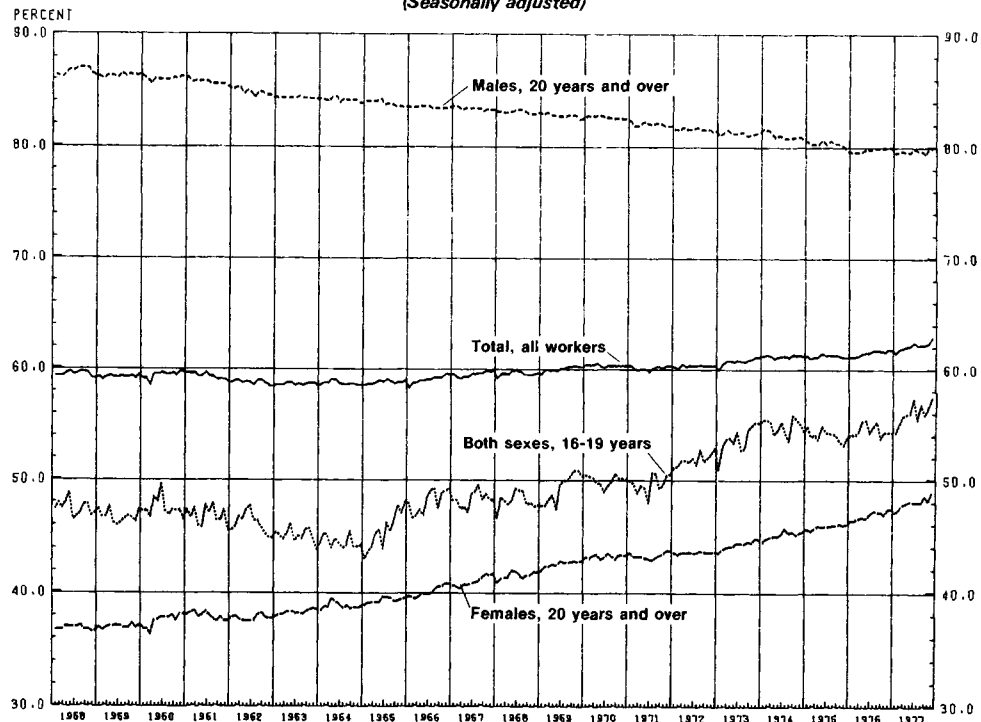
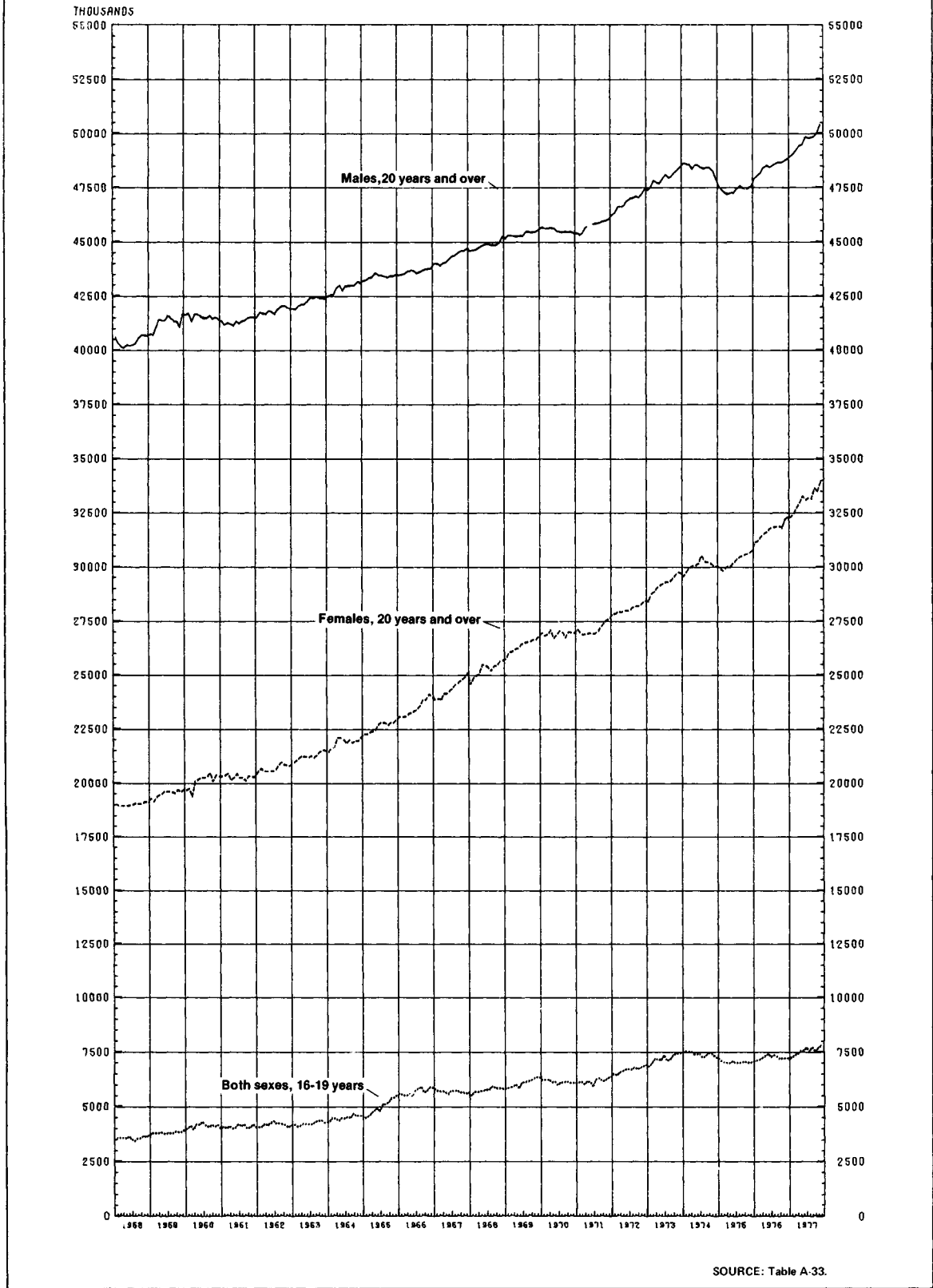


Chart 4. Total employment by sex and age
(Seasonally adjusted)



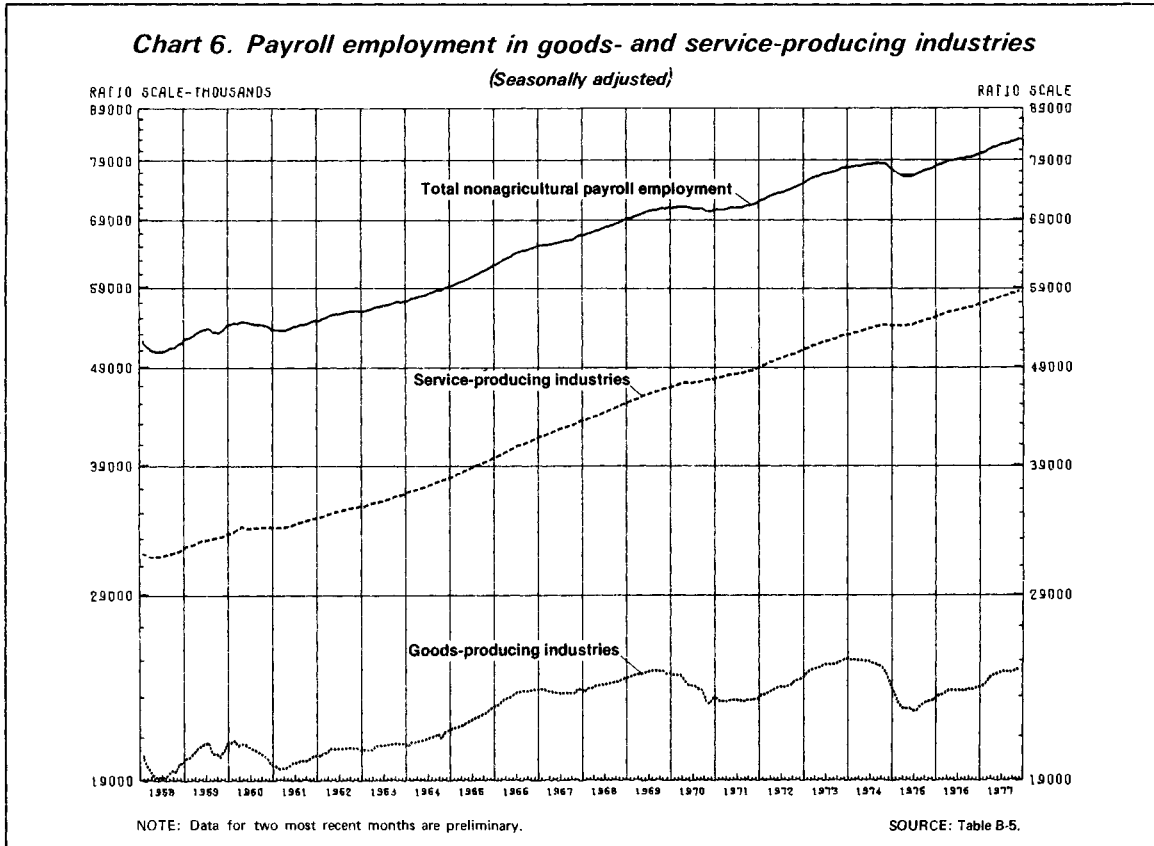
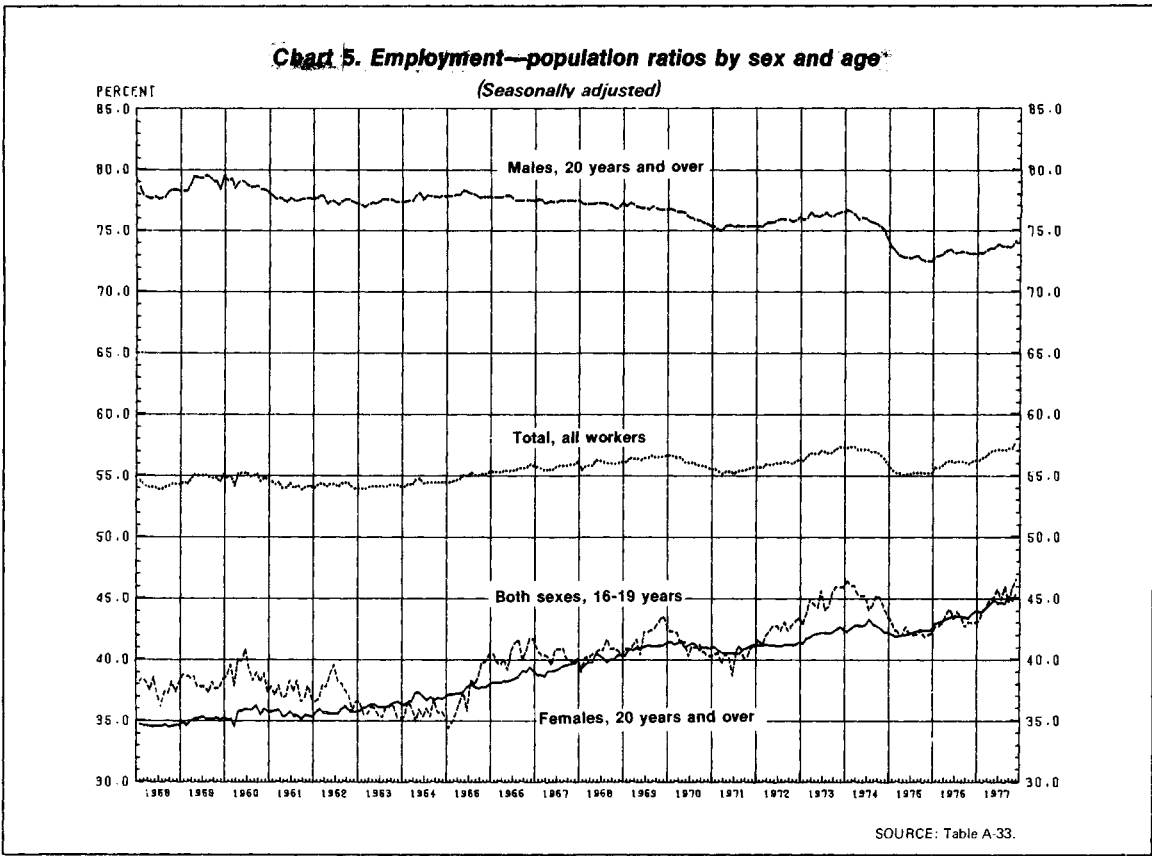
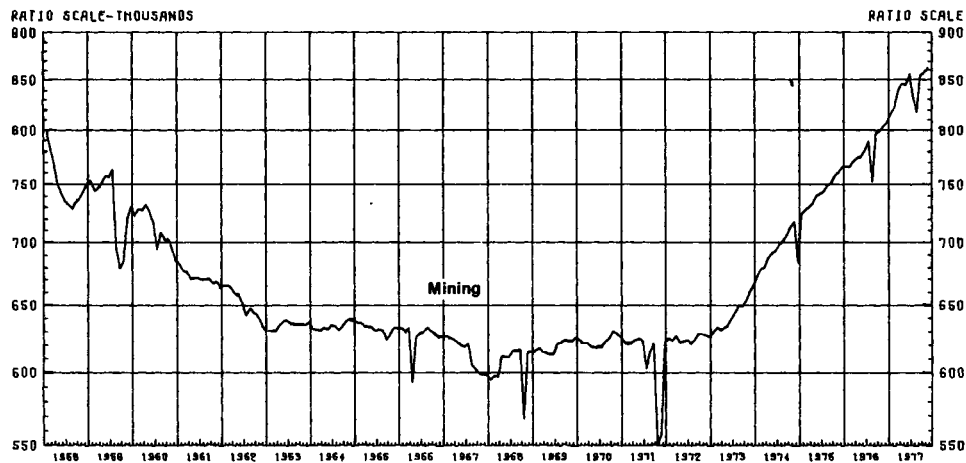
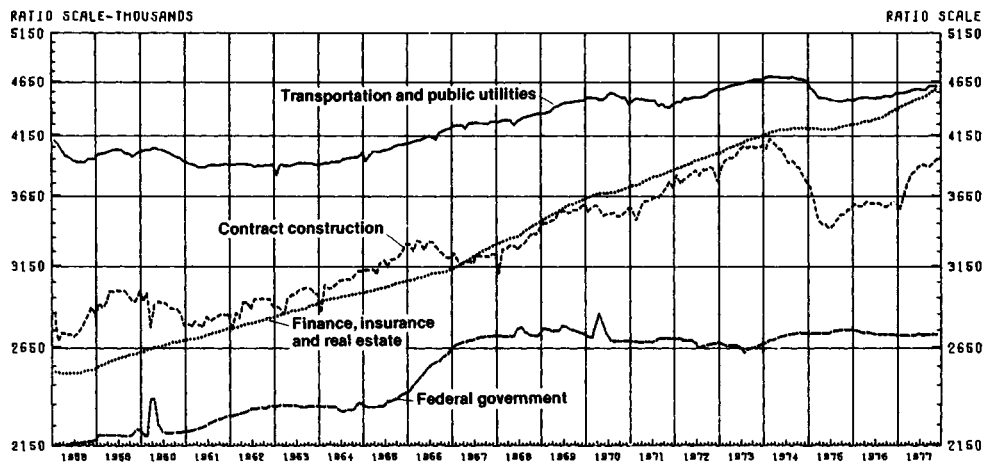
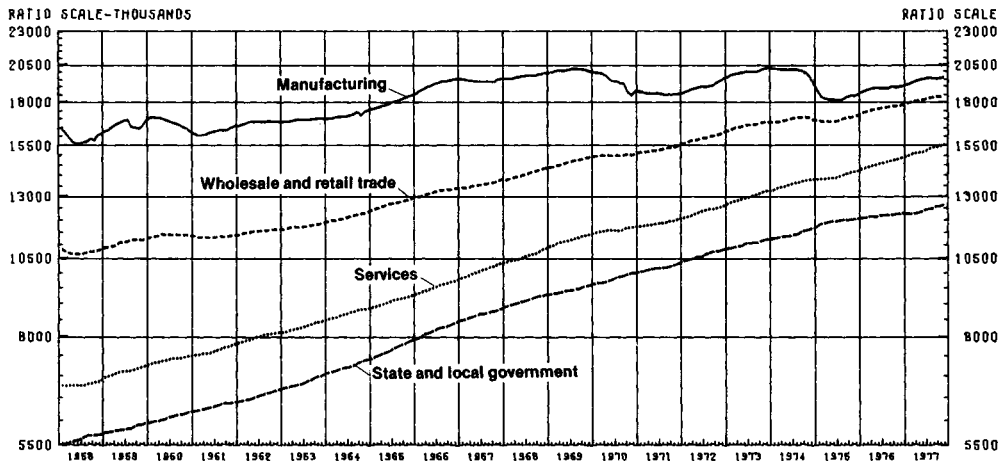


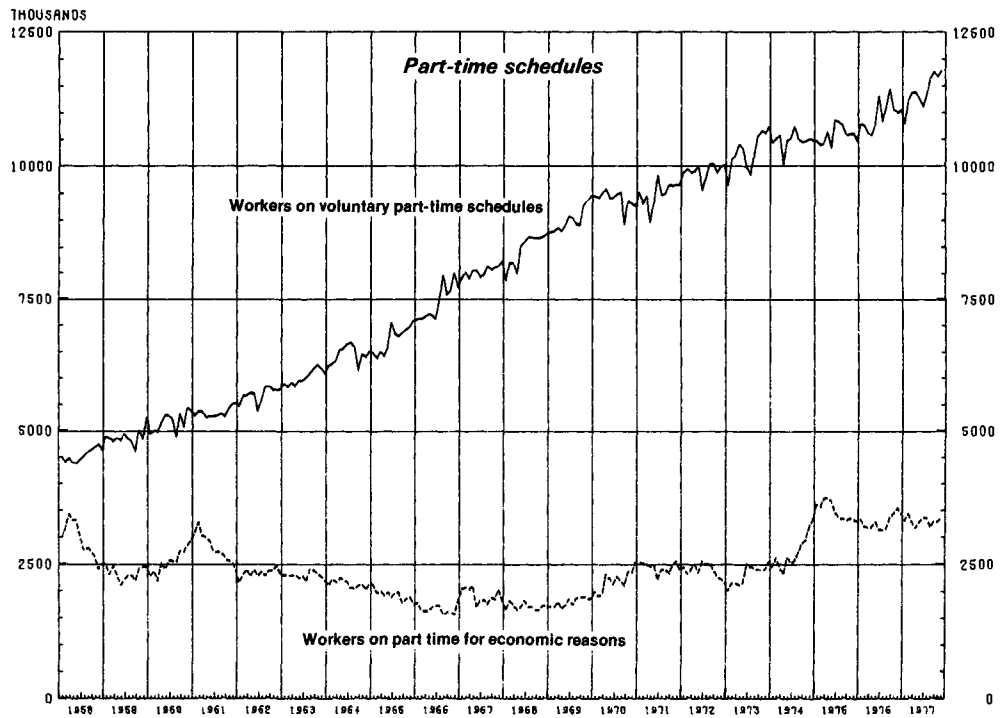
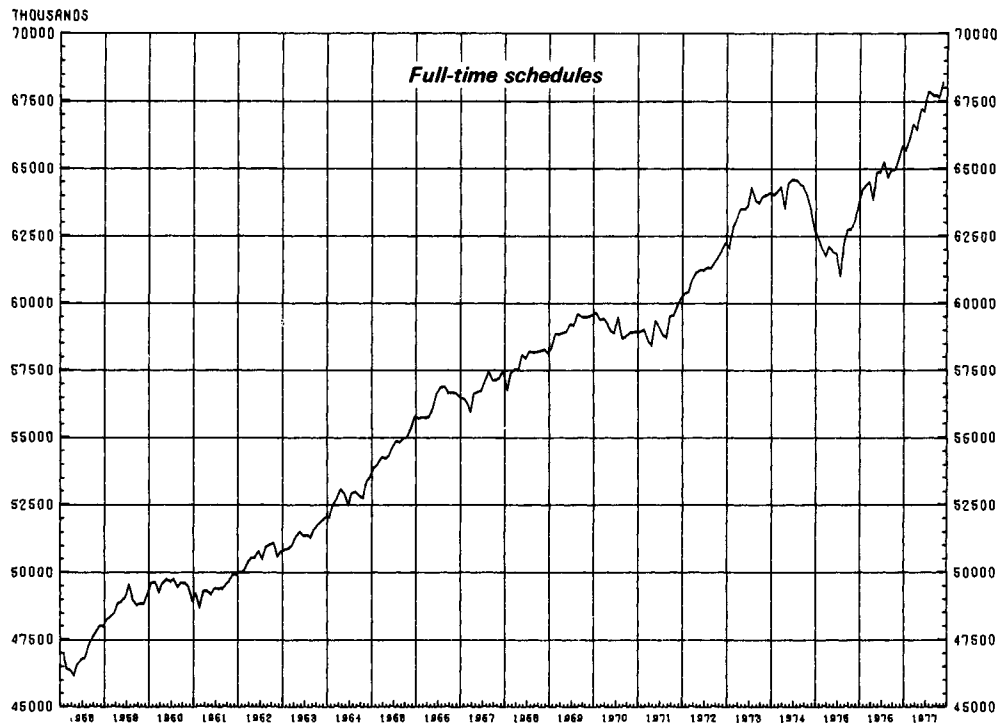
Chart 7. Nonagricultural payroll employment by industry
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

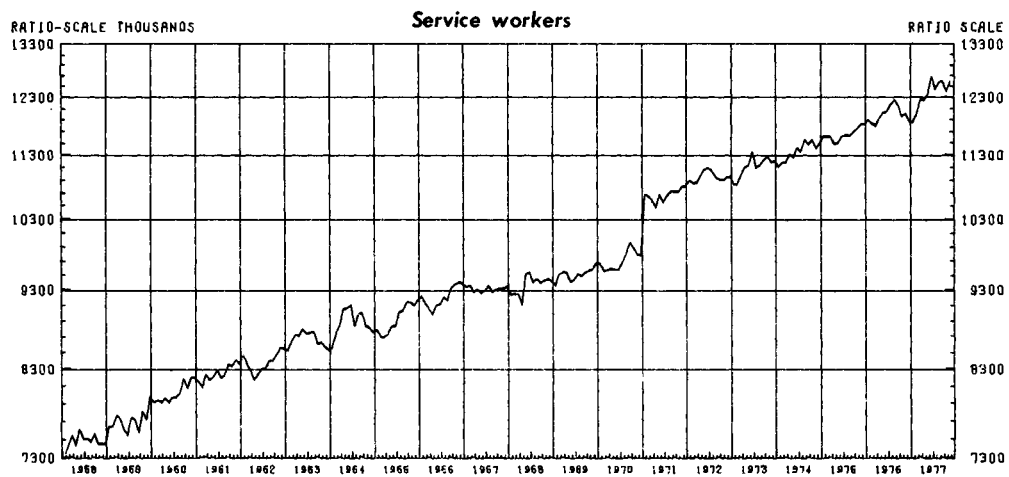
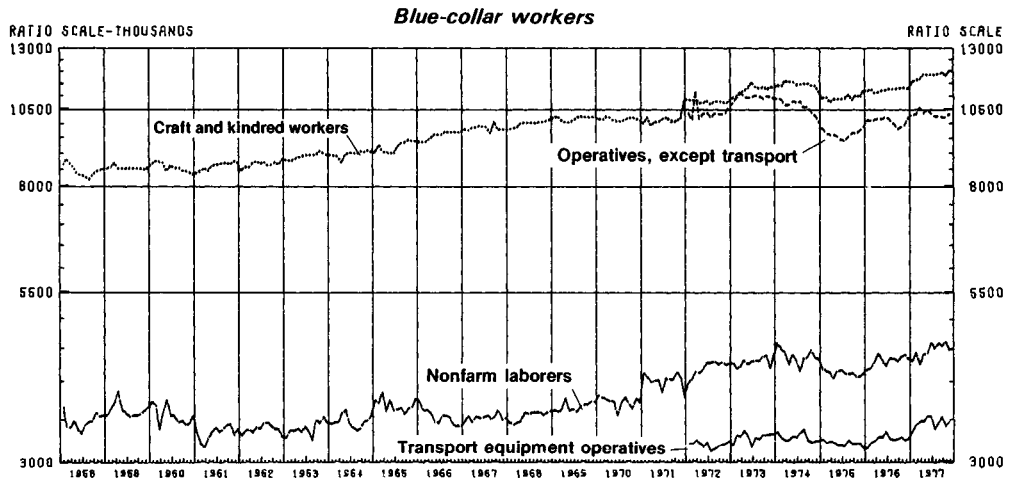
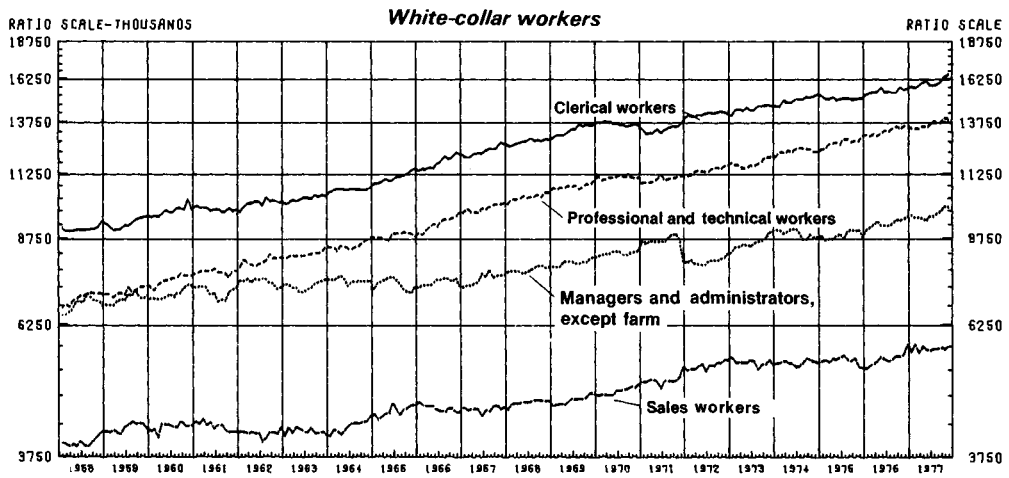
SOURCE: Table B-5.

**Chart 8. Persons at work full and part time
in nonagricultural industries**
(Seasonally adjusted)



SOURCE: Table A-42.

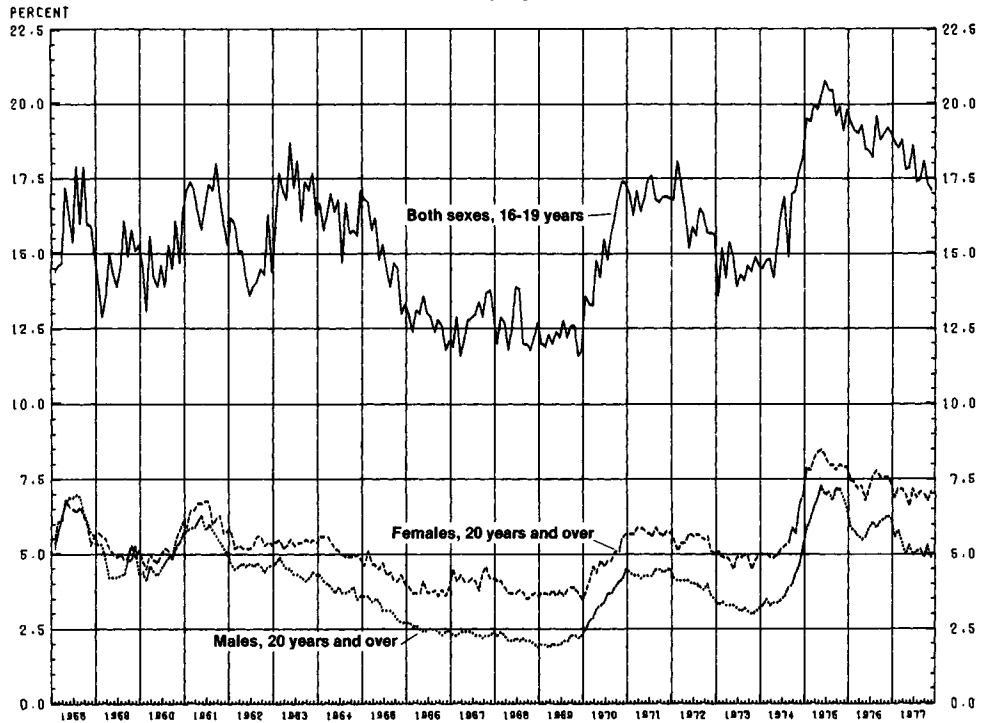
Chart 9. Employment in nonfarm occupations
(Seasonally adjusted)



NOTE: Two breaks in series occurred in 1971 stemming from the reclassification of occupations introduced in January and from a questionnaire change concerning "major activity" introduced in December. See "Changes in occupational classification system" in the Explanatory Notes.

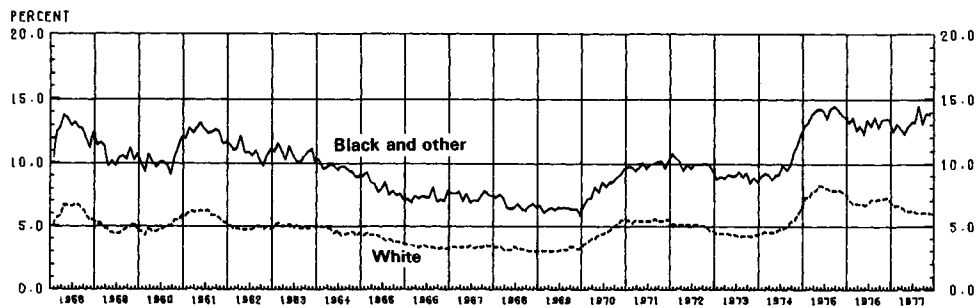
SOURCE: Table A-42.

Chart 10. Unemployment rates by sex and age
(Seasonally adjusted)

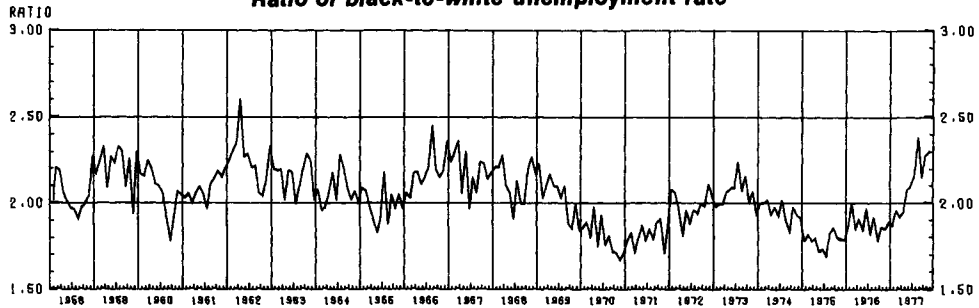


SOURCE: Table A-36.

Chart 11. Unemployment rates by race
(Seasonally adjusted)

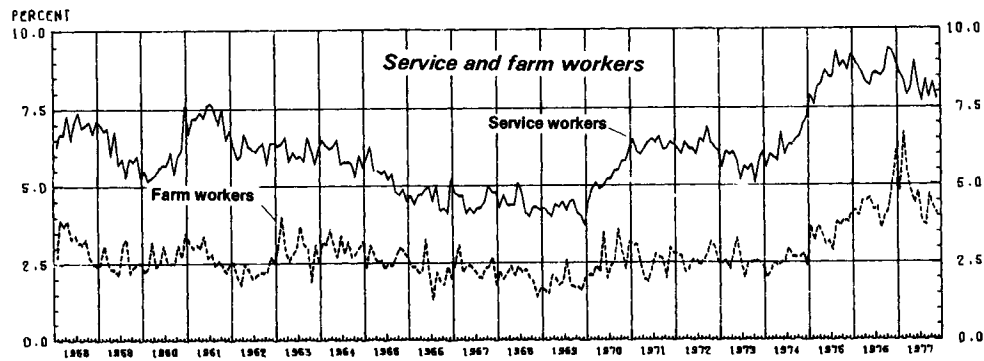
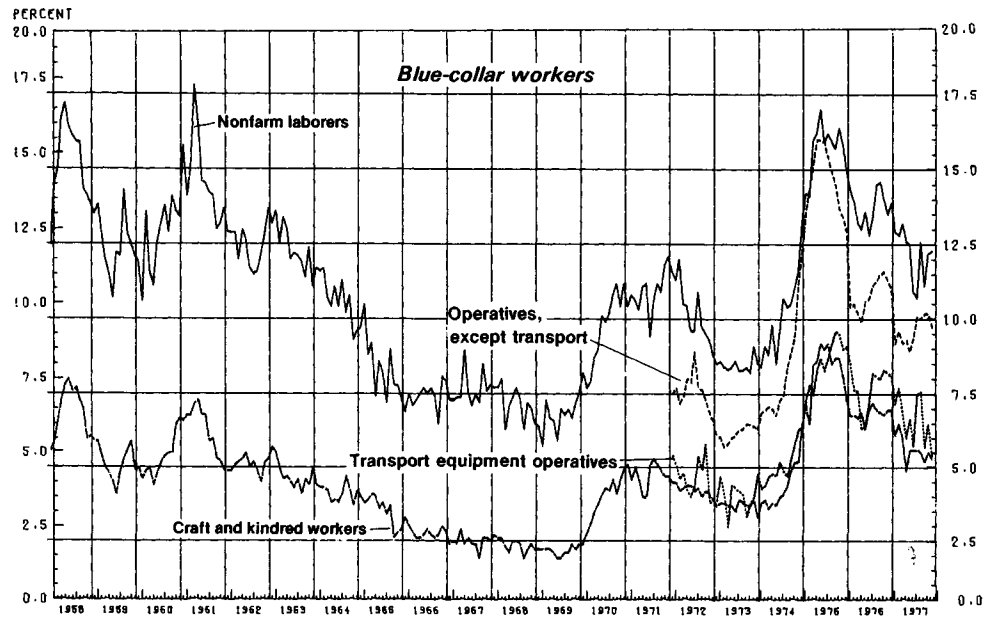
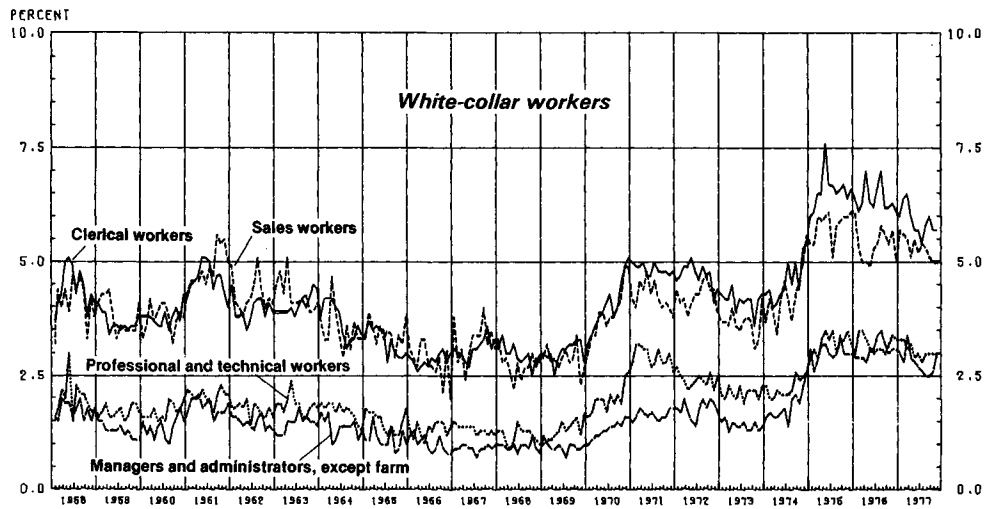


Ratio of black-to-white unemployment rate



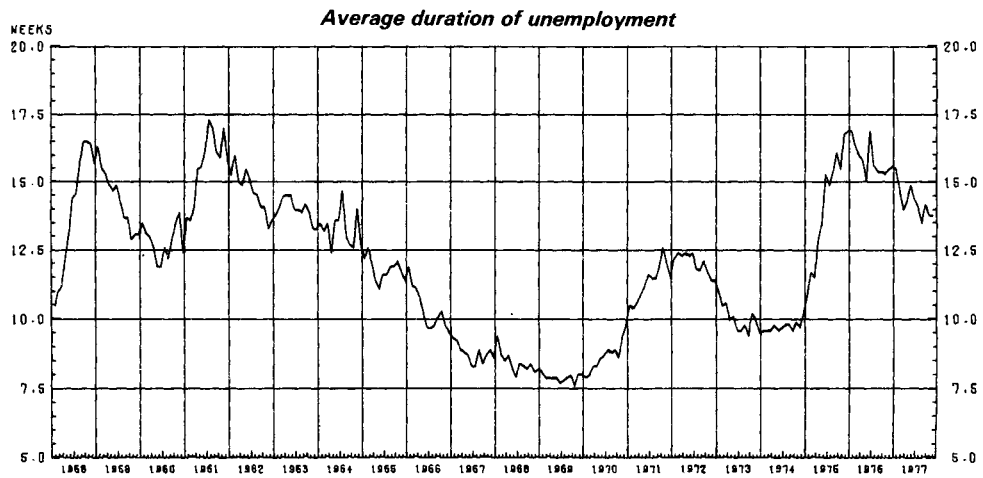
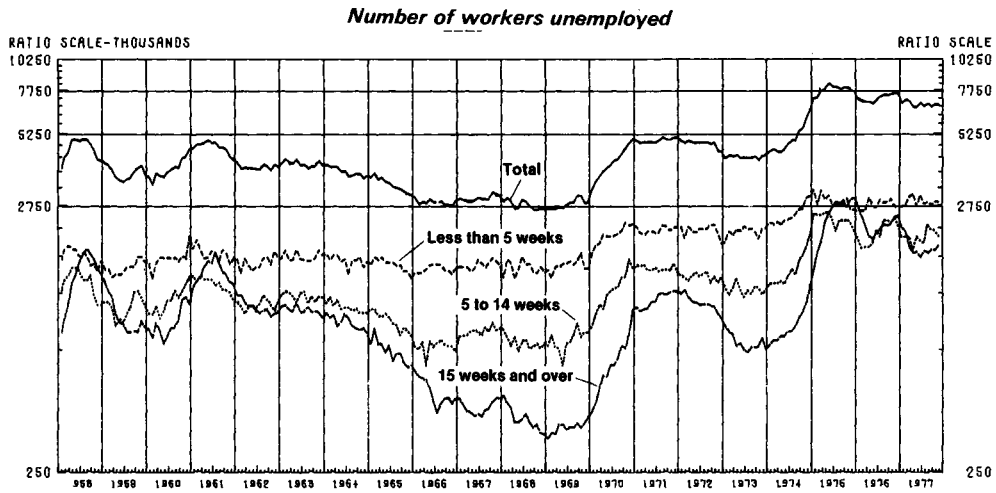
SOURCE: Table A-35.

Chart 12. Unemployment rates by major occupational groups
(Seasonally adjusted)



SOURCE: Table A-36.

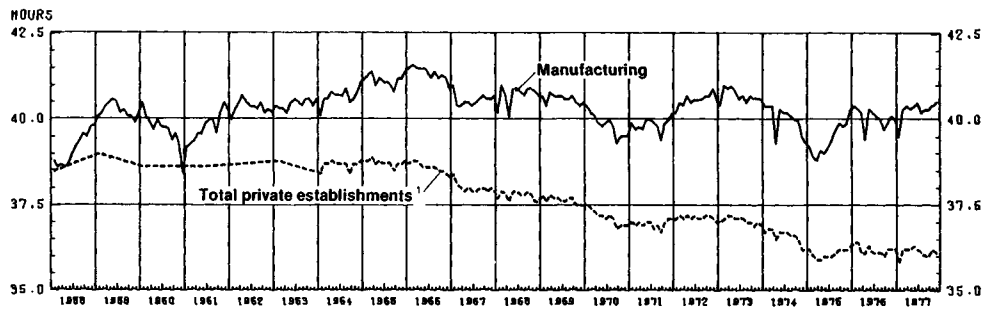
Chart 13. Duration of unemployment
(Seasonally adjusted)



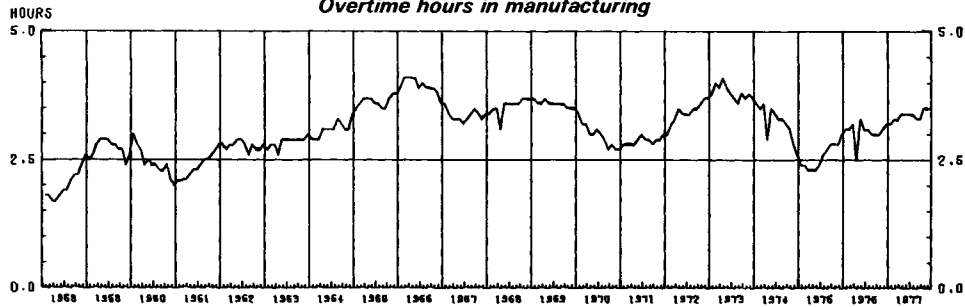
SOURCE: Table A-37.

Chart 14. Average weekly hours in nonagricultural industries

(Seasonally adjusted)



Overtime hours in manufacturing



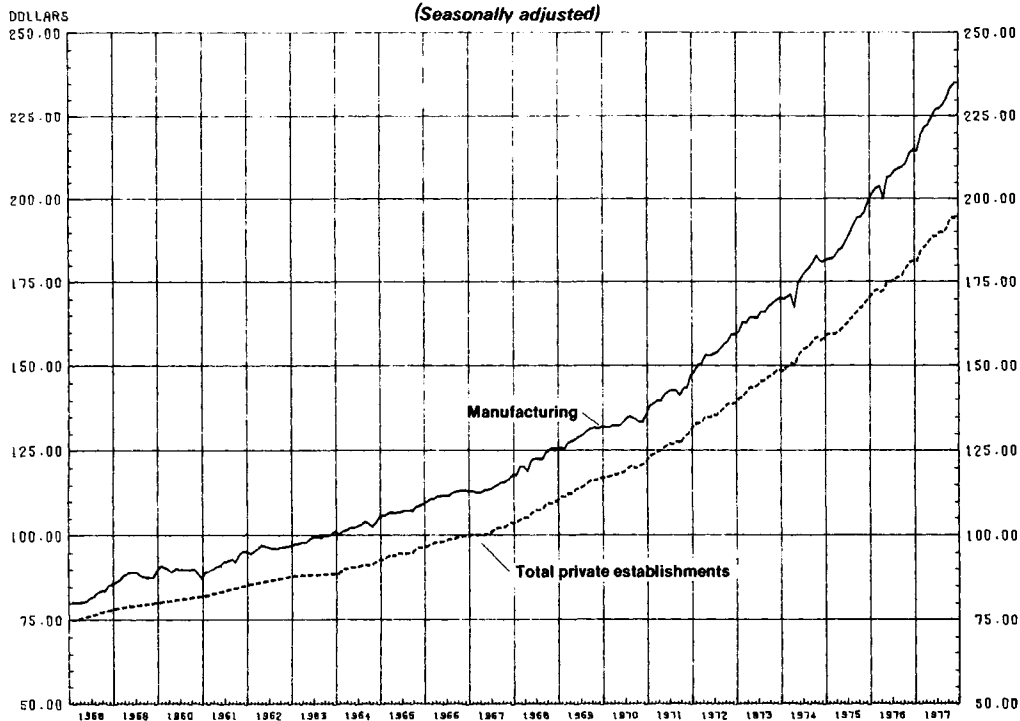
¹ Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

Chart 15. Average weekly earnings in nonagricultural industries

(Seasonally adjusted)



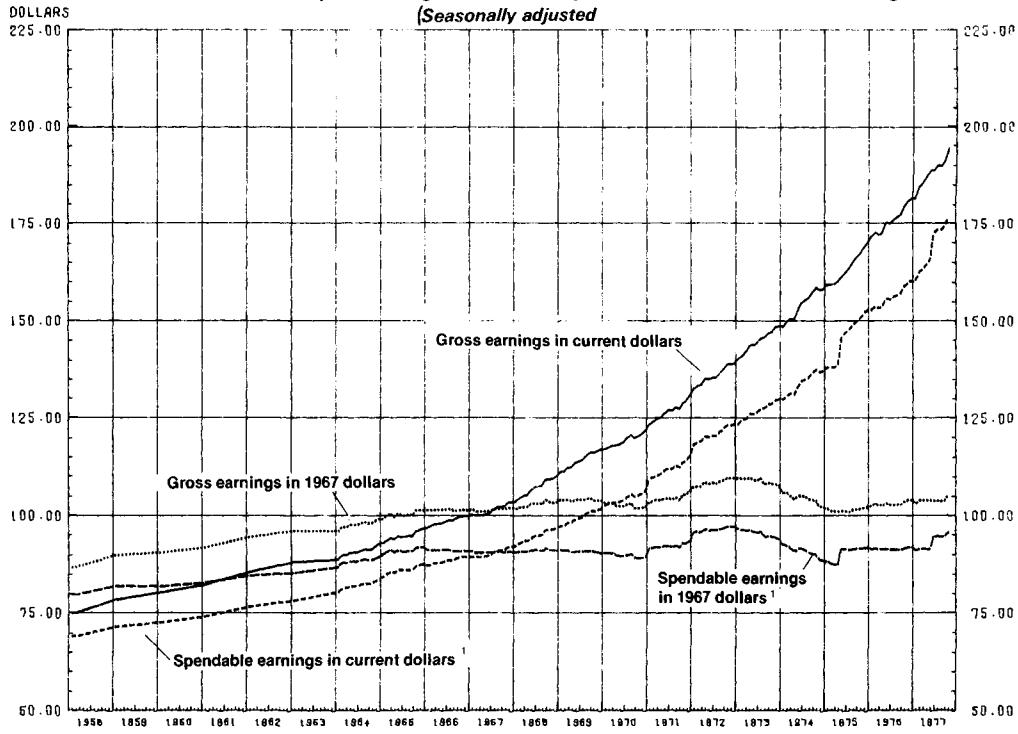
¹ Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.

Chart 16. Total private gross and spendable weekly earnings

(Seasonally adjusted)



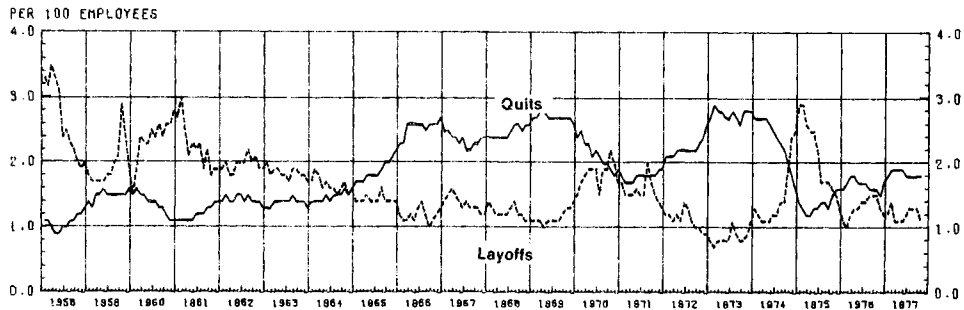
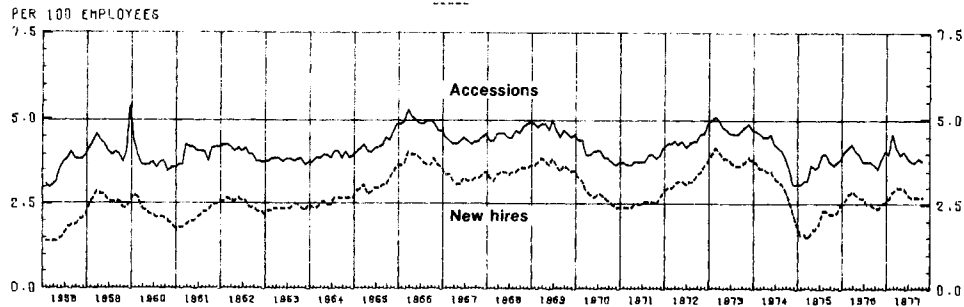
¹ Worker with three dependents.

NOTE: Data prior to 1964 are annual averages. Data for current month are preliminary.

SOURCE: Table C-8.

Chart 17. Labor turnover rates in manufacturing

(Seasonally adjusted)



NOTE: Data for current month are preliminary.

SOURCE: Table D-3.

**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	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
TOTAL										
Annual averages										
1947.....	103,418	60,941	58.9	59,250	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	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.....	106,645	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.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	110,601	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	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	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.....	116,363	70,275	60.4	67,639	63,036	5,586	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	46,960
1960.....	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 ¹	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	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	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	3,606	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 ¹	145,775	88,991	61.0	86,542	81,702	3,472	78,230	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	93,240	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.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
Monthly data, seasonally adjusted²										
1976:										
November.....	157,006	98,020	62.4	95,871	88,220	3,248	84,972	7,651	8.0	58,986
December.....	157,176	98,106	62.4	95,960	88,441	3,257	85,184	7,519	7.8	59,071
1977:										
January.....	157,381	97,649	62.0	95,516	88,558	3,090	85,468	6,958	7.3	59,732
February.....	157,584	98,282	62.4	96,145	88,962	3,090	85,872	7,183	7.5	59,302
March.....	157,782	98,677	62.5	96,539	89,475	3,116	86,359	7,064	7.3	59,104
April.....	157,986	98,892	62.6	96,760	90,023	3,260	86,763	6,737	7.0	59,094
May.....	158,228	99,286	62.7	97,158	90,408	3,386	87,022	6,750	6.9	58,943
June.....	158,456	99,770	63.0	97,641	90,679	3,338	87,341	6,962	7.1	58,686
July.....	158,682	99,440	62.7	97,305	90,561	3,213	87,348	6,744	6.9	59,242
August.....	158,899	99,834	62.8	97,697	90,771	3,252	87,519	6,926	7.1	59,064
September.....	159,114	99,999	62.7	97,868	91,095	3,215	87,880	6,773	6.9	58,114
October.....	159,334	100,236	62.9	98,102	91,230	3,272	87,958	6,872	7.0	59,099
November.....	159,522	101,130	63.4	98,998	92,180	3,362	88,818	6,818	6.9	58,391

¹ Not strictly comparable with prior years due to the introduction of population adjustments in these 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, 1967 to date

[Numbers in thousands]

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
MALES										
Annual averages										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,855	1,403	2.8	12,677
1970.....	67,409	54,343	80.6	51,195	48,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972 ¹	69,864	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
Monthly data, seasonally adjusted²										
1976:										
November.....	75,198	58,929	78.4	56,887	52,643	2,625	50,018	4,244	7.5	16,269
December.....	75,325	58,987	78.3	56,951	52,799	2,624	50,175	4,152	7.3	16,338
1977:										
January.....	75,422	58,654	77.8	56,632	52,918	2,548	50,370	3,714	6.6	16,768
February.....	75,519	58,976	78.1	56,950	53,046	2,546	50,500	3,904	6.9	16,543
March.....	75,610	59,007	78.0	56,982	53,270	2,544	50,726	3,712	6.5	16,603
April.....	75,706	59,060	78.0	57,041	53,575	2,626	50,949	3,466	6.1	16,646
May.....	75,823	59,346	78.3	57,331	53,722	2,724	50,998	3,609	6.3	16,477
June.....	75,932	59,581	78.5	57,567	53,987	2,698	51,289	3,580	6.2	16,351
July.....	76,041	59,457	78.2	57,438	53,900	2,624	51,276	3,538	6.2	16,284
August.....	76,144	59,588	78.2	57,567	53,958	2,675	51,283	3,609	6.3	16,556
September.....	76,246	59,419	77.9	57,405	53,966	2,650	51,316	3,439	6.0	16,827
October.....	76,352	59,929	78.5	57,913	54,266	2,654	51,612	3,647	6.3	16,423
November.....	76,439	60,189	78.7	58,174	54,715	2,677	52,038	3,459	5.9	16,251
FEMALES										
Annual averages										
1967.....	69,003	28,395	41.2	28,360	26,893	680	26,212	1,468	5.2	40,608
1968.....	70,217	29,242	41.6	29,204	27,807	660	27,147	1,397	4.8	40,976
1969.....	71,476	30,551	42.7	30,513	29,084	643	28,441	1,429	4.7	40,924
1970.....	72,774	31,560	43.4	31,520	29,667	601	29,066	1,853	5.9	41,214
1971.....	74,084	32,132	43.4	32,091	29,875	598	29,277	2,217	6.9	41,952
1972 ¹	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 ¹	77,242	34,561	44.7	34,510	32,446	619	31,827	2,064	6.0	42,681
1974.....	78,575	35,892	45.7	35,825	33,417	592	32,825	2,408	6.7	42,683
1975.....	79,954	37,087	46.4	36,998	33,553	579	32,973	3,445	9.3	42,868
1976.....	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	8.6	42,789
Monthly data, seasonally adjusted²										
1976:										
November.....	81,808	39,093	47.8	38,984	35,577	623	34,954	3,407	8.7	42,715
December.....	81,851	39,118	47.8	39,009	35,642	633	35,009	3,367	8.6	47,733
1977:										
January.....	81,959	38,995	47.6	38,884	35,640	542	35,098	3,244	8.3	42,964
February.....	82,065	39,306	47.9	39,195	35,916	544	35,372	3,279	8.4	42,759
March.....	82,172	39,671	48.3	39,557	36,205	572	35,633	3,352	8.5	42,501
April.....	82,280	39,832	48.4	39,719	36,448	634	35,814	3,271	8.2	42,448
May.....	82,405	39,940	48.5	39,827	36,686	662	36,024	3,141	7.9	42,465
June.....	82,524	40,190	48.7	40,074	36,692	640	36,052	3,382	8.4	42,334
July.....	82,642	39,983	48.4	39,867	36,661	589	36,072	3,206	8.0	42,659
August.....	82,755	40,246	48.6	40,130	36,813	577	36,236	3,317	8.3	42,509
September.....	82,868	40,581	49.0	40,463	37,129	565	36,564	3,334	8.2	42,287
October.....	82,983	40,307	48.6	40,189	36,964	618	36,346	3,225	8.0	42,676
November.....	83,082	40,942	49.3	40,824	37,465	685	36,780	3,359	8.2	42,141

¹ Not strictly comparable with prior years due to the introduction of population adjustments in these 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

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

[Numbers in thousands]

Sex, age, and race	November 1977										
	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	59,725	78.1	57,710	54,590	3,120	5.4	16,715	325	4,582	1,727	10,081
16 to 21 years	8,487	66.7	7,787	6,655	1,132	14.5	4,245	21	3,831	40	354
16 to 19 years	5,144	60.6	4,820	4,012	808	16.8	3,347	9	3,083	15	241
16 to 17 years	2,074	48.9	2,041	1,664	377	18.5	2,170	10	2,058	2	99
18 to 19 years	3,070	72.3	2,779	2,348	432	15.5	1,178	--	1,024	12	141
20 to 64 years	52,638	89.7	50,947	48,733	2,213	4.3	6,035	146	1,495	1,237	3,157
20 to 24 years	8,539	85.3	7,791	7,077	715	9.2	1,473	10	1,150	52	262
25 to 54 years	36,994	94.6	36,054	34,781	1,273	3.5	2,093	69	337	650	1,036
25 to 29 years	8,300	94.8	7,926	7,507	419	5.3	459	9	228	51	171
30 to 34 years	7,363	96.5	7,119	6,823	296	4.2	267	7	63	66	130
35 to 39 years	5,879	96.6	5,686	5,496	190	3.3	207	10	19	71	107
40 to 44 years	5,188	95.6	5,096	4,969	127	2.5	240	9	12	96	123
45 to 49 years	5,173	93.5	5,141	5,021	120	2.3	362	12	10	154	186
50 to 54 years	5,092	90.1	5,086	4,965	121	2.4	558	22	6	212	318
55 to 64 years	7,104	74.2	7,102	6,877	225	3.2	2,468	67	7	535	1,860
55 to 59 years	4,362	83.2	4,360	4,229	131	3.0	878	32	5	290	552
60 to 64 years	2,742	63.3	2,742	2,647	94	3.4	1,590	35	2	245	1,308
65 years and over	1,943	20.9	1,943	1,845	99	5.1	7,332	170	4	475	6,683
65 to 69 years	1,124	30.5	1,124	1,068	57	5.1	2,566	42	--	182	2,343
70 years and over	819	14.7	819	777	42	5.1	4,766	128	4	294	4,340
White											
16 years and over	53,276	78.9	51,628	49,220	2,407	4.7	14,220	274	3,694	1,373	8,880
16 to 21 years	7,492	69.0	6,925	6,063	862	12.4	3,367	16	3,087	29	235
16 to 19 years	4,562	63.2	4,298	3,683	615	14.3	2,658	7	2,476	6	170
16 to 17 years	1,886	52.5	1,859	1,551	307	16.5	1,706	8	1,622	--	75
18 to 19 years	2,675	73.8	2,439	2,131	308	12.6	952	--	853	6	95
20 to 64 years	46,944	90.4	45,560	43,848	1,712	3.8	4,970	118	1,217	993	2,643
20 to 24 years	7,467	86.3	6,872	6,341	531	7.7	1,180	8	952	42	179
25 to 54 years	32,987	95.3	32,198	31,210	988	3.1	1,611	59	259	513	780
25 to 34 years	13,902	96.2	13,390	12,855	535	4.0	544	16	224	87	216
35 to 44 years	9,839	96.6	9,598	9,351	247	2.6	342	13	24	140	165
45 to 54 years	9,245	92.7	9,210	9,004	206	2.2	725	30	10	286	399
55 to 64 years	6,491	74.9	6,489	6,296	193	3.0	2,179	51	7	438	1,684
55 to 59 years	3,975	84.0	3,974	3,867	107	2.7	757	23	4	238	492
60 to 64 years	2,515	63.9	2,515	2,429	86	3.4	1,422	28	2	200	1,192
65 years and over	1,770	21.2	1,770	1,690	80	4.5	6,592	149	1	374	6,067
Black and other											
16 years and over	6,449	72.1	6,083	5,370	713	11.7	2,494	51	888	354	1,201
16 to 21 years	996	53.1	862	592	270	31.3	878	5	745	11	118
16 to 19 years	582	45.8	522	329	193	37.0	689	3	607	9	71
16 to 17 years	188	28.8	182	112	69	38.2	464	1	436	2	24
18 to 19 years	395	63.6	340	217	124	36.3	226	1	171	7	47
20 to 64 years	5,694	84.3	5,387	4,886	501	9.3	1,064	27	278	244	514
20 to 24 years	1,072	78.5	919	735	184	20.0	293	2	199	10	83
25 to 54 years	4,008	89.3	3,855	3,570	285	7.4	482	10	79	137	256
25 to 34 years	1,761	90.6	1,655	1,475	180	10.9	182	--	66	31	85
35 to 44 years	1,227	92.1	1,184	1,113	70	6.0	106	6	7	27	65
45 to 54 years	1,020	84.0	1,016	982	35	3.4	194	4	6	80	105
55 to 64 years	613	68.0	613	581	32	5.2	289	16	--	97	176
55 to 59 years	387	76.2	386	363	24	6.2	121	9	--	52	60
60 to 64 years	226	57.4	226	218	8	3.6	168	7	--	45	116
65 years and over	173	19.0	173	155	19	10.8	741	21	3	101	616

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	November 1977										
	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	41,227	49.6	41,109	37,884	3,226	7.8	41,855	33,058	4,624	953	3,220
16 to 21 years	6,914	55.4	6,866	5,813	1,053	15.3	5,562	1,417	3,873	9	263
16 to 19 years	4,231	50.9	4,213	3,478	734	17.4	4,083	648	3,240	2	193
16 to 17 years	1,723	41.9	1,722	1,380	343	19.9	2,389	177	2,136	2	74
18 to 19 years	2,508	59.7	2,490	2,098	392	15.7	1,694	470	1,104	1	119
20 to 64 years	35,887	58.3	35,787	33,352	2,435	6.8	25,685	22,572	1,369	385	1,359
20 to 24 years	6,759	67.6	6,694	5,996	698	10.4	3,242	2,129	925	14	173
25 to 54 years	24,641	60.3	24,607	23,076	1,531	6.2	16,231	14,857	433	190	751
25 to 29 years	5,674	63.5	5,649	5,189	460	8.1	3,258	2,888	205	21	144
30 to 34 years	4,601	58.7	4,595	4,312	283	6.2	3,232	2,976	99	26	131
35 to 39 years	3,917	61.1	3,915	3,673	242	6.2	2,494	2,280	55	18	141
40 to 44 years	3,554	62.0	3,553	3,354	199	5.6	2,182	2,038	21	24	99
45 to 49 years	3,476	59.5	3,476	3,293	182	5.2	2,367	2,187	35	42	103
50 to 54 years	3,420	55.9	3,419	3,256	164	4.8	2,697	2,488	17	60	133
55 to 64 years	4,487	41.9	4,487	4,280	207	4.6	6,213	5,586	11	181	435
55 to 59 years	2,854	49.6	2,853	2,723	130	4.6	2,904	2,667	7	81	149
60 to 64 years	1,633	33.0	1,633	1,557	76	4.7	3,309	2,919	4	100	286
65 years and over	1,109	8.4	1,109	1,053	56	5.0	12,087	9,838	15	566	1,669
65 to 69 years	682	14.7	682	640	42	6.2	3,971	3,427	5	90	450
70 years and over	426	5.0	426	413	14	3.2	8,115	6,411	9	476	1,219
White											
16 years and over	35,755	49.3	35,660	33,231	2,429	6.8	36,843	29,609	3,674	745	2,815
16 to 21 years	6,117	58.0	6,077	5,311	766	12.6	4,430	1,131	3,092	6	201
16 to 19 years	3,793	54.1	3,777	3,223	555	14.7	3,223	524	2,559	3	137
16 to 17 years	1,587	45.9	1,586	1,307	279	17.6	1,872	146	1,674	2	50
18 to 19 years	2,206	62.0	2,191	1,916	276	12.6	1,351	378	885	--	87
20 to 64 years	30,986	57.8	30,906	29,078	1,828	5.9	22,618	20,076	1,102	286	1,155
20 to 24 years	5,832	68.6	5,781	5,297	484	8.4	2,665	1,759	758	10	138
25 to 54 years	21,157	59.6	21,128	19,959	1,169	5.5	14,314	13,215	333	136	630
25 to 34 years	8,707	60.3	8,683	8,144	539	6.2	5,724	5,236	227	37	224
35 to 44 years	6,392	60.9	6,389	6,046	343	5.4	4,107	3,808	62	26	211
45 to 54 years	6,058	57.5	6,057	5,769	287	4.7	4,483	4,170	44	73	195
55 to 64 years	3,997	41.5	3,997	3,823	174	4.3	5,640	5,102	11	139	388
55 to 59 years	2,528	48.9	2,528	2,419	109	4.3	2,642	2,441	7	61	134
60 to 64 years	1,468	32.9	1,468	1,404	65	4.4	2,998	2,661	4	78	254
65 years and over	976	8.2	976	930	46	4.8	11,002	9,009	13	457	1,523
Black and other											
16 years and over	5,472	52.2	5,449	4,652	797	14.6	5,012	3,449	950	208	405
16 to 21 years	797	41.3	789	502	287	36.4	1,133	286	781	3	62
16 to 19 years	438	33.7	435	256	180	41.3	860	123	681	--	56
16 to 17 years	136	20.8	136	73	63	46.6	517	31	462	--	24
18 to 19 years	302	46.8	299	183	116	38.9	344	92	219	--	32
20 to 64 years	4,902	61.5	4,882	4,274	608	12.5	3,067	2,496	267	100	203
20 to 24 years	926	61.6	913	699	214	23.4	577	370	167	4	36
25 to 54 years	3,485	64.5	3,479	3,117	361	10.4	1,916	1,641	100	54	121
25 to 34 years	1,567	67.2	1,561	1,357	204	13.1	766	628	77	10	51
35 to 44 years	1,080	65.5	1,079	981	98	9.1	569	510	14	15	30
45 to 54 years	838	59.0	838	779	59	7.0	581	504	8	29	40
55 to 64 years	490	46.1	490	457	33	6.7	574	485	--	42	47
55 to 59 years	325	55.4	325	304	21	6.5	262	227	--	20	15
60 to 64 years	165	34.6	165	153	12	7.2	312	258	--	21	32
65 years and over	132	10.9	132	123	9	7.0	1,085	829	2	108	146

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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	
	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977
MALES								
16 years and over	58,408	59,725	77.7	78.1	56,368	57,710	77.0	77.5
16 to 19 years	4,866	5,144	57.3	60.6	4,524	4,820	55.5	59.0
16 to 17 years	1,883	2,074	44.5	48.9	1,849	2,041	44.0	48.5
18 to 19 years	2,983	3,070	70.0	72.3	2,675	2,779	67.6	70.2
20 to 24 years	8,453	8,539	86.0	85.3	7,695	7,791	84.8	84.1
25 to 54 years	36,264	36,994	94.4	94.6	35,325	36,054	94.3	94.5
25 to 34 years	15,212	15,662	95.6	95.6	14,601	15,046	95.5	95.4
35 to 44 years	10,729	11,067	95.6	96.1	10,439	10,782	95.5	96.0
45 to 54 years	10,324	10,265	91.5	91.8	10,285	10,226	91.5	91.8
55 to 64 years	6,998	7,104	74.3	74.2	6,997	7,102	74.3	74.2
55 to 59 years	4,254	4,362	83.1	83.2	4,253	4,360	83.1	83.2
60 to 64 years	2,744	2,742	63.8	63.3	2,744	2,742	63.8	63.3
65 years and over	1,826	1,943	20.2	20.9	1,826	1,943	20.2	20.9
White								
16 years and over	52,150	53,276	78.4	78.9	50,459	51,628	77.9	78.4
16 to 19 years	4,336	4,562	59.9	63.2	4,049	4,298	58.3	61.8
16 to 17 years	1,728	1,886	48.1	52.5	1,699	1,859	47.7	52.1
18 to 19 years	2,608	2,675	71.5	73.8	2,351	2,439	69.3	71.9
20 to 24 years	7,369	7,467	86.6	86.3	6,760	6,872	85.6	85.3
25 to 54 years	32,383	32,987	95.1	95.3	31,587	32,198	95.0	95.2
25 to 34 years	13,520	13,902	96.2	96.2	13,006	13,390	96.1	96.1
35 to 44 years	9,553	9,839	96.2	96.6	9,306	9,598	96.1	96.6
45 to 54 years	9,310	9,245	92.4	92.7	9,275	9,210	92.4	92.7
55 to 64 years	6,408	6,491	75.0	74.9	6,406	6,489	75.0	74.9
55 to 59 years	3,887	3,975	84.0	84.0	3,886	3,974	84.0	84.0
60 to 64 years	2,520	2,515	64.5	63.9	2,520	2,515	64.5	63.9
65 years and over	1,656	1,770	20.3	21.2	1,656	1,770	20.3	21.2
Black and other								
16 years and over	6,258	6,449	71.8	72.1	5,909	6,083	70.7	70.9
16 to 19 years	531	582	42.1	45.8	475	522	39.4	43.1
16 to 17 years	156	188	24.1	28.8	151	182	23.5	28.2
18 to 19 years	375	395	60.9	63.6	324	340	57.3	60.1
20 to 24 years	1,084	1,072	81.8	78.5	935	919	79.5	75.8
25 to 54 years	3,881	4,008	89.0	89.3	3,738	3,855	88.7	88.9
25 to 34 years	1,691	1,761	91.0	90.6	1,594	1,655	90.5	90.1
35 to 44 years	1,176	1,227	90.6	92.1	1,133	1,184	90.3	91.8
45 to 54 years	1,014	1,020	84.4	84.0	1,010	1,016	84.3	84.0
55 to 64 years	591	613	67.0	68.0	591	613	67.0	68.0
55 to 59 years	367	387	75.4	76.2	367	386	75.4	76.2
60 to 64 years	224	226	56.8	57.4	224	226	56.8	57.4
65 years and over	171	173	19.3	19.0	171	173	19.3	19.0

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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	
	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977
FEMALES								
16 years and over	39,378	41,227	48.1	49.6	39,269	41,109	48.1	49.6
16 to 19 years	4,060	4,231	48.8	50.9	4,041	4,213	48.7	50.8
16 to 17 years	1,625	1,723	39.5	41.9	1,624	1,722	39.5	41.9
18 to 19 years	2,436	2,508	57.9	59.7	2,417	2,490	57.7	59.5
20 to 24 years	6,454	6,759	65.9	67.6	6,394	6,694	65.7	67.4
25 to 54 years	23,419	24,641	58.3	60.3	23,389	24,607	58.2	60.3
25 to 34 years	9,591	10,275	59.0	61.3	9,566	10,244	58.9	61.2
35 to 44 years	7,023	7,471	59.3	61.5	7,020	7,468	59.3	61.5
45 to 54 years	6,804	6,896	56.3	57.7	6,803	6,895	56.3	57.7
55 to 64 years	4,362	4,487	41.3	41.9	4,362	4,487	41.3	41.9
55 to 59 years	2,760	2,854	49.0	49.6	2,760	2,853	49.0	49.6
60 to 64 years	1,602	1,633	32.5	33.0	1,602	1,633	32.5	33.0
65 years and over	1,083	1,109	8.4	8.4	1,083	1,109	8.4	8.4
White								
16 years and over	34,201	35,755	47.7	49.3	34,111	35,660	47.7	49.2
16 to 19 years	3,655	3,793	52.0	54.1	3,639	3,777	51.8	54.0
16 to 17 years	1,489	1,587	43.0	45.9	1,488	1,586	43.0	45.9
18 to 19 years	2,166	2,206	60.6	62.0	2,150	2,191	60.4	61.9
20 to 24 years	5,589	5,832	67.0	68.6	5,540	5,781	66.8	68.4
25 to 54 years	20,123	21,157	57.6	59.6	20,099	21,128	57.5	59.6
25 to 34 years	8,121	8,707	57.9	60.3	8,100	8,683	57.8	60.3
35 to 44 years	6,009	6,392	58.7	60.9	6,007	6,389	58.7	60.9
45 to 54 years	5,992	6,058	56.1	57.5	5,992	6,057	56.1	57.5
55 to 64 years	3,886	3,997	40.9	41.5	3,886	3,997	40.9	41.5
55 to 59 years	2,459	2,528	48.6	48.9	2,459	2,528	48.6	48.9
60 to 64 years	1,427	1,468	32.1	32.9	1,427	1,468	32.1	32.9
65 years and over	947	976	8.0	8.2	947	976	8.0	8.2
Black and other								
16 years and over	5,177	5,472	50.9	52.2	5,158	5,449	50.8	52.1
16 to 19 years	405	438	31.6	33.7	402	435	31.4	33.6
16 to 17 years	136	136	21.0	20.8	136	136	21.0	20.8
18 to 19 years	270	302	42.4	46.8	267	299	42.1	46.6
20 to 24 years	865	926	59.7	61.6	853	913	59.3	61.3
25 to 54 years	3,295	3,485	63.0	64.5	3,290	3,479	62.9	64.5
25 to 34 years	1,470	1,567	66.0	67.2	1,466	1,561	65.9	67.1
35 to 44 years	1,014	1,080	63.3	65.5	1,013	1,079	63.3	65.5
45 to 54 years	811	838	57.8	59.0	811	838	57.8	59.0
55 to 64 years	475	490	45.8	46.1	475	490	45.8	46.1
55 to 59 years	301	325	53.4	55.4	301	325	53.4	55.4
60 to 64 years	175	165	36.9	34.6	175	165	36.9	34.6
65 years and over	136	132	11.6	10.9	136	132	11.6	10.9

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

[Numbers in thousands]

Sex and age	November 1977						Not in labor force	
	Civilian labor force					Percent of labor force		
	Total	Employed			Unemployed			
		Total	Agriculture	Nonagricultural industries	Number			
Total								
16 years and over	9,915	8,526	221	8,305	1,389	14.0	6,555	
16 to 19 years	860	501	9	492	359	41.7	1,399	
16 to 17 years	282	156	6	150	126	44.6	899	
18 to 19 years	578	345	4	341	233	40.3	499	
20 to 24 years	1,582	1,213	19	1,195	369	23.3	738	
25 to 54 years	6,200	5,612	136	5,476	588	9.5	2,035	
25 to 34 years	2,699	2,342	47	2,295	357	13.2	765	
35 to 44 years	1,935	1,791	39	1,752	144	7.4	577	
45 to 54 years	1,566	1,478	49	1,429	88	5.6	694	
55 to 64 years	991	939	33	905	52	5.3	766	
55 to 59 years	636	602	19	583	34	5.3	344	
60 to 64 years	355	336	14	322	18	5.2	423	
65 years and over	282	261	24	237	22	7.6	1,616	
Males								
16 years and over	5,231	4,565	193	4,372	666	12.7	2,169	
16 to 19 years	479	290	11	280	188	39.4	607	
16 to 17 years	171	103	7	96	68	39.6	418	
18 to 19 years	308	187	4	183	121	39.2	189	
20 to 24 years	807	630	18	612	177	22.0	230	
25 to 54 years	3,251	2,986	117	2,869	266	8.2	430	
25 to 34 years	1,373	1,202	38	1,163	172	12.5	158	
35 to 44 years	1,011	947	33	915	64	6.3	95	
45 to 54 years	867	837	46	791	30	3.5	176	
55 to 64 years	536	514	27	487	23	4.2	265	
55 to 59 years	336	320	14	306	16	4.8	116	
60 to 64 years	200	194	12	182	7	3.3	149	
65 years and over	157	145	21	124	12	7.8	637	
Females								
16 years and over	4,684	3,961	28	3,933	723	15.4	4,386	
16 to 19 years	381	212	--	212	170	44.6	791	
16 to 17 years	111	54	--	54	58	52.3	481	
18 to 19 years	270	158	--	158	112	41.5	310	
20 to 24 years	775	583	--	583	192	24.7	508	
25 to 54 years	2,948	2,626	19	2,607	322	10.9	1,605	
25 to 34 years	1,326	1,141	9	1,132	185	13.9	607	
35 to 44 years	924	844	7	837	80	8.7	482	
45 to 54 years	699	641	3	638	58	8.2	517	
55 to 64 years	455	425	7	418	30	6.5	501	
55 to 59 years	301	283	5	278	18	6.0	228	
60 to 64 years	154	142	2	140	12	7.7	274	
65 years and over	125	116	3	113	9	7.4	979	

NOTE: According to the 1970 Census, black workers comprised about 89 percent of the "black and other" population group.

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

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977
	TOTAL							
Total noninstitutional population	157,006	159,522	66,699	67,948	73,491	74,768	16,816	16,806
Total labor force	97,786	100,952	53,542	54,581	35,318	36,996	8,927	9,375
Percent of population	62.3	63.3	80.3	80.3	48.1	49.5	53.1	55.8
Civilian labor force	95,637	98,819	51,844	52,890	35,227	36,896	8,565	9,033
Employed	88,542	92,473	48,931	50,578	32,683	34,405	6,927	7,490
Agriculture	3,081	3,181	2,248	2,283	512	548	321	350
Nonagricultural industries	85,460	89,292	46,683	48,295	32,172	33,857	6,606	7,140
Unemployed	7,095	6,346	2,913	2,312	2,544	2,491	1,638	1,543
Percent of labor force	7.4	6.4	5.6	4.4	7.2	6.8	19.1	17.1
Not in labor force	59,220	58,570	13,158	13,367	38,173	37,772	7,889	7,431
White								
Total noninstitutional population	138,117	140,095	59,252	60,276	64,595	65,583	14,271	14,236
Total labor force	86,351	89,031	47,815	48,714	30,546	31,962	7,991	8,355
Percent of population	62.5	63.6	80.7	80.8	47.3	48.7	56.0	58.7
Civilian labor force	84,570	87,287	46,410	47,330	30,472	31,882	7,688	8,075
Employed	78,877	82,451	44,067	45,538	28,444	30,008	6,367	6,905
Agriculture	2,838	2,941	2,052	2,086	483	515	302	340
Nonagricultural industries	76,040	79,510	42,015	43,451	27,961	29,494	6,064	6,565
Unemployed	5,693	4,836	2,343	1,792	2,029	1,874	1,321	1,170
Percent of labor force	6.7	5.5	5.0	3.8	6.7	5.9	17.2	14.5
Not in labor force	51,766	51,064	11,437	11,562	34,049	33,620	6,280	5,881
Black and other								
Total noninstitutional population	18,889	19,427	7,448	7,672	8,896	9,186	2,545	2,570
Total labor force	11,435	11,921	5,727	5,867	4,772	5,034	936	1,020
Percent of population	60.5	61.4	76.9	76.5	53.6	54.8	36.8	39.7
Civilian labor force	11,067	11,532	5,434	5,560	4,755	5,014	877	957
Employed	9,664	10,022	4,864	5,041	4,240	4,397	561	585
Agriculture	244	240	196	197	29	33	19	10
Nonagricultural industries	9,421	9,782	4,668	4,844	4,211	4,364	542	575
Unemployed	1,402	1,510	570	520	515	617	317	373
Percent of labor force	12.7	13.1	10.5	9.3	10.8	12.3	36.1	38.9
Not in labor force	7,454	7,506	1,721	1,805	4,124	4,152	1,609	1,549

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

(Numbers in thousands)

Employment status	November 1977								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Total noninstitutional population	25,209	12,732	12,476	21,405	10,858	10,547	3,804	1,874	1,930
Total labor force	15,401	8,487	6,914	13,608	7,492	6,117	1,793	996	797
Percent of population	61.1	66.7	55.4	63.6	69.0	58.0	47.1	53.1	41.3
Civilian labor force	14,653	7,787	6,866	13,002	6,925	6,077	1,651	862	789
Employed	12,469	6,655	5,813	11,374	6,063	5,311	1,094	592	502
Agriculture	491	423	68	473	404	69	18	19	--
Nonagricultural industries	11,978	6,232	5,745	10,901	5,659	5,242	1,077	573	504
Unemployed	2,184	1,132	1,053	1,628	862	766	557	270	287
Percent of labor force	14.9	14.5	15.3	12.5	12.4	12.6	33.7	31.3	36.4
Looking for full-time work	1,245	647	598	899	489	409	347	158	189
Looking for part-time work	939	485	454	729	373	356	210	112	98
Not in labor force	9,807	4,245	5,562	7,796	3,367	4,430	2,011	878	1,133
MAJOR ACTIVITY: GOING TO SCHOOL									
Civilian labor force	4,604	2,447	2,157	4,135	2,195	1,940	469	252	217
Employed	3,723	1,979	1,744	3,450	1,832	1,618	273	146	126
Agriculture	142	127	15	137	123	15	5	5	--
Nonagricultural industries	3,581	1,851	1,729	3,313	1,710	1,603	268	142	126
Unemployed	881	468	413	685	363	322	196	105	91
Percent of labor force	19.1	19.1	19.1	16.6	16.5	16.6	41.9	41.9	41.9
Looking for full-time work	64	32	32	43	22	22	21	11	11
Looking for part-time work	816	436	381	641	341	300	175	95	80
Not in labor force	7,704	3,831	3,873	6,178	3,087	3,092	1,526	745	781
MAJOR ACTIVITY: OTHER									
Civilian labor force	10,049	5,341	4,709	8,867	4,730	4,137	1,182	610	572
Employed	8,746	4,677	4,069	7,924	4,231	3,693	822	446	376
Agriculture	349	296	53	336	281	55	13	15	--
Nonagricultural industries	8,397	4,381	4,016	7,588	3,950	3,638	809	431	378
Unemployed	1,304	664	640	943	499	444	360	164	196
Percent of labor force	13.0	12.4	13.6	10.6	10.6	10.7	30.5	26.9	34.3
Looking for full-time work	1,181	615	566	855	468	388	326	147	178
Looking for part-time work	123	49	74	88	32	56	35	17	18
Not in labor force	2,103	414	1,689	1,618	280	1,338	485	134	351

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

[Numbers in thousands]

Race, sex, and age	November 1977								
	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	82,952	74,875	3,320	4,758	5.7	15,867	14,279	1,588	10.0
16 to 21 years	8,704	6,682	776	1,245	14.3	5,949	5,010	939	15.8
16 to 19 years	4,245	3,063	464	718	16.9	4,788	3,963	825	17.2
16 to 17 years	715	453	108	153	21.5	3,048	2,482	566	18.6
18 to 19 years	3,530	2,610	356	564	16.0	1,739	1,480	259	14.9
20 years and over	78,707	71,811	2,856	4,040	5.1	11,079	10,316	763	6.9
20 to 24 years	12,286	10,458	649	1,178	9.6	2,200	1,964	235	10.7
25 years and over	66,421	61,353	2,207	2,862	4.3	8,879	8,352	528	5.9
25 to 54 years	54,688	50,527	1,713	2,447	4.5	5,972	5,616	356	6.0
55 years and over	11,734	10,825	493	415	3.5	2,907	2,736	171	5.9
Males, 16 years and over	52,385	48,350	1,570	2,465	4.7	5,325	4,670	655	12.3
16 to 21 years	4,830	3,814	369	647	13.4	2,958	2,473	485	16.4
16 to 19 years	2,362	1,754	230	378	16.0	2,458	2,027	430	17.5
20 years and over	50,023	46,596	1,339	2,087	4.2	2,868	2,643	225	7.8
20 to 24 years	6,896	6,001	290	604	8.8	896	785	111	12.4
25 years and over	43,127	40,595	1,049	1,483	3.4	1,972	1,858	114	5.8
25 to 54 years	35,338	33,327	771	1,240	3.5	715	682	33	4.6
55 years and over	7,789	7,268	278	243	3.1	1,257	1,176	81	6.4
Females, 16 years and over	30,567	26,525	1,750	2,292	7.5	10,542	9,609	933	8.9
16 to 21 years	3,874	2,869	407	598	15.4	2,991	2,537	454	15.2
16 to 19 years	1,883	1,310	234	339	18.0	2,330	1,935	395	17.0
20 years and over	28,685	25,215	1,516	1,953	6.8	8,212	7,674	538	6.6
20 to 24 years	5,390	4,457	359	574	10.6	1,304	1,179	125	9.6
25 years and over	23,295	20,758	1,157	1,379	5.9	6,908	6,495	413	6.0
25 to 54 years	19,349	17,200	942	1,207	6.2	5,258	4,934	323	6.1
55 years and over	3,945	3,557	216	173	4.4	1,650	1,560	90	5.5
White									
Males, 16 years and over	46,862	43,659	1,308	1,896	4.0	4,765	4,253	512	10.7
16 to 21 years	4,256	3,459	307	489	11.5	2,669	2,297	373	14.0
16 to 19 years	2,088	1,607	195	286	13.7	2,210	1,881	329	14.9
20 years and over	44,775	42,052	1,113	1,609	3.6	2,555	2,372	183	7.2
20 to 24 years	6,063	5,382	237	445	7.3	809	722	86	10.7
25 years and over	38,712	36,670	876	1,164	3.0	1,746	1,650	97	5.6
25 to 54 years	31,585	29,984	635	964	3.1	613	591	24	3.9
55 years and over	7,126	6,686	241	200	2.8	1,133	1,060	73	6.4
Females, 16 years and over	26,077	22,962	1,436	1,678	6.4	9,583	8,833	750	7.8
16 to 21 years	3,374	2,596	369	409	12.1	2,703	2,347	356	13.2
16 to 19 years	1,649	1,194	217	238	14.5	2,128	1,812	316	14.9
20 years and over	24,427	21,768	1,219	1,440	5.9	7,455	7,021	434	5.8
20 to 24 years	4,634	3,939	305	390	8.4	1,147	1,052	95	8.3
25 years and over	19,793	17,829	914	1,050	5.3	6,308	5,969	339	5.4
25 to 54 years	16,261	14,613	750	897	5.5	4,868	4,596	272	5.6
55 years and over	3,534	3,217	164	153	4.3	1,440	1,373	67	4.7
Black and other									
Males, 16 years and over	5,523	4,691	262	570	10.3	560	417	143	25.5
16 to 21 years	574	354	62	158	27.5	288	176	112	38.8
16 to 19 years	275	147	36	92	33.5	247	146	101	40.8
20 years and over	5,248	4,544	226	478	9.1	313	270	42	13.4
20 to 24 years	832	619	53	160	19.2	87	63	24	28.1
25 years and over	4,416	3,925	173	318	7.2	226	207	18	8.0
25 to 54 years	3,753	3,343	136	275	7.3	101	91	10	9.9
55 years and over	662	582	37	43	6.5	124	116	7	5.6
Females, 16 years and over	4,491	3,563	314	614	13.7	959	776	183	19.1
16 to 21 years	501	273	38	189	37.7	288	190	98	34.0
16 to 19 years	233	116	16	101	43.3	202	123	79	38.9
20 years and over	4,257	3,447	297	513	12.0	757	652	104	13.8
20 to 24 years	756	518	54	184	24.3	157	127	30	19.0
25 years and over	3,501	2,929	243	329	9.4	600	525	74	12.3
25 to 54 years	3,089	2,588	191	310	10.0	389	337	51	13.1
55 years and over	411	341	52	19	4.6	211	187	23	10.9

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

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

[Numbers in thousands]

Family relationship	November 1977									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over	98,819	62.8	92,473	6,346	6.4	58,570	33,383	9,206	2,680	13,301
Husbands ¹	40,560	82.0	39,367	1,193	2.9	8,875	143	212	1,167	7,353
With employed wife	19,811	92.0	19,302	510	2.6	1,714	38	121	384	1,170
With unemployed wife	1,270	91.9	1,161	109	8.6	112	1	5	34	72
With wife not in labor force	18,040	73.2	17,554	486	2.7	6,591	67	59	681	5,783
Wives	22,908	48.2	21,525	1,382	6.0	24,634	22,889	340	240	1,165
With employed husband	20,463	53.8	19,302	1,161	5.7	17,555	16,527	306	82	642
With unemployed husband	618	55.9	509	109	17.6	486	448	9	5	25
With husband not in labor force	1,826	21.7	1,714	112	6.1	6,593	5,915	26	154	498
Relatives in husband-wife families	13,426	59.1	11,726	1,700	12.7	9,309	1,362	6,380	366	1,200
16-19 years	6,400	54.4	5,425	974	15.2	5,372	144	4,959	9	260
20-24 years	4,545	72.8	4,030	515	11.3	1,698	158	1,316	40	184
25 years and over	2,481	52.6	2,271	211	8.5	2,239	1,060	105	317	756
Women who head families	4,615	57.1	4,185	430	9.3	3,462	2,906	137	123	297
Relatives in female-headed families	4,005	56.1	3,238	767	19.2	3,140	842	1,388	265	644
16-19 years	1,307	49.9	930	377	28.8	1,312	82	1,093	7	130
20-24 years	1,149	71.9	928	221	19.2	448	104	245	17	84
25 years and over	1,549	52.9	1,380	169	10.9	1,380	656	50	241	430
Persons not living in families ²	13,305	59.3	12,432	874	6.6	9,150	5,241	749	519	2,642

¹ Includes a small number of single, separated, widowed, or divorced men who head families.

² Individuals living alone or with unrelated persons plus a small number of persons in secondary families.

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

Marital status, sex, age, and race	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977
Total, 16 years and over	3,824	3,120	6.8	5.4	3,270	3,226	8.3	7.8
Married, spouse present	1,564	1,194	3.9	3.0	1,561	1,461	6.9	6.3
Widowed, divorced, or separated	381	319	9.4	7.3	615	606	8.7	8.0
Single (never married)	1,880	1,607	14.9	12.0	1,094	1,159	11.4	11.3
White, 16 years and over	3,093	2,407	6.1	4.7	2,599	2,429	7.6	6.8
Married, spouse present	1,341	985	3.7	2.7	1,352	1,201	6.7	5.8
Widowed, divorced, or separated	274	226	8.5	6.3	457	440	8.0	7.3
Single (never married)	1,478	1,196	13.4	10.2	790	787	9.6	9.0
Black and other, 16 years and over	731	713	12.4	11.7	671	797	13.0	14.6
Married, spouse present	224	208	6.5	5.9	210	260	8.8	10.8
Widowed, divorced, or separated	106	93	12.8	11.5	158	166	11.2	10.9
Single (never married)	401	412	24.7	23.4	304	371	22.3	24.5
Total, 20 to 64 years of age	2,819	2,213	5.6	4.3	2,490	2,435	7.3	6.8
Married, spouse present	1,469	1,093	3.9	2.9	1,443	1,357	6.6	6.0
Widowed, divorced, or separated	358	300	9.4	7.3	558	557	8.7	8.1
Single (never married)	991	820	12.0	9.4	488	523	8.2	8.2
White, 20 to 64 years of age	2,267	1,712	5.1	3.8	1,977	1,828	6.7	5.9
Married, spouse present	1,258	902	3.6	2.6	1,243	1,121	6.4	5.6
Widowed, divorced, or separated	257	211	8.5	6.3	404	394	7.9	7.2
Single (never married)	751	599	10.6	8.0	328	311	6.6	5.9
Black and other, 20 to 64 years of age	553	501	10.5	9.3	513	608	11.1	12.5
Married, spouse present	211	191	6.4	5.7	200	235	8.7	10.1
Widowed, divorced, or separated	101	89	12.8	11.5	153	163	11.7	11.4
Single (never married)	240	221	20.8	17.8	160	210	16.0	18.7

A-11. Unemployed persons by occupation of last job and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977
Total	7,095	6,346	7.4	6.5	6.8	5.4	8.3	7.8
White-collar workers	2,083	1,984	4.4	4.1	3.2	2.8	5.6	5.3
Professional and technical	441	395	3.1	2.7	2.8	1.9	3.5	3.7
Managers and administrators, except farm	306	314	3.1	3.1	2.5	2.4	5.3	5.2
Sales workers	234	293	5.5	4.8	4.3	4.0	6.9	5.8
Clerical workers	1,012	982	6.1	5.6	4.9	4.4	6.4	5.9
Blue-collar workers	2,791	2,344	8.7	7.1	8.2	6.4	11.1	10.4
Craft and kindred workers	770	604	6.3	4.8	6.2	4.6	8.1	7.9
Carpenters and other construction craft	379	284	10.0	7.1	10.0	7.1	--	(1)
All other	391	320	4.7	3.7	4.4	3.3	8.6	8.2
Operatives, except transport	1,137	996	10.1	8.7	8.9	7.1	11.9	10.9
Transport equipment operatives	278	192	7.7	5.1	8.1	5.0	2.7	7.2
Nonfarm laborers	606	552	12.3	11.2	12.5	11.2	10.7	10.9
Construction laborers	170	136	19.5	13.3	19.1	13.5	(1)	(1)
All other	436	416	10.7	10.6	10.9	10.6	9.5	10.8
Service workers	1,208	1,049	9.1	7.7	8.9	6.1	9.3	8.6
Private household	83	63	6.2	4.8	--	(1)	6.3	4.8
All other	1,125	986	9.5	8.0	8.9	6.2	9.9	9.3
Farm workers	166	135	5.9	4.8	4.4	3.7	13.2	9.8
No previous work experience	847	834	--	--	--	--	--	--
16 to 19 years	640	609	--	--	--	--	--	--
20 to 24 years	133	144	--	--	--	--	--	--
25 years and over	74	81	--	--	--	--	--	--

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

A-12. Unemployed persons by industry of last job and sex

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977
Total	100.0	100.0	7.4	6.4	6.8	5.4	8.3	7.8
Nonagricultural private wage and salary workers	74.4	72.1	7.6	6.4	7.0	5.4	8.4	7.7
Mining	.4	.3	3.1	2.5	3.1	2.6	3.0	(1)
Construction	8.2	7.2	13.4	9.8	13.9	9.7	6.9	11.1
Manufacturing	21.9	20.8	7.3	6.1	6.1	4.6	10.1	9.3
Durable goods	12.0	11.1	6.8	5.5	5.9	4.6	9.6	8.5
Lumber and wood products	.7	.8	7.1	7.6	6.9	7.0	(1)	(1)
Furniture and fixtures	.7	.7	9.7	8.4	10.1	7.3	8.9	11.0
Stone, clay, and glass products	.8	.8	7.4	6.5	7.8	4.8	6.0	12.7
Primary metal industries	1.7	1.2	8.8	5.7	8.3	5.9	12.7	3.8
Fabricated metal products	1.5	1.3	7.5	5.6	6.0	4.8	13.7	8.4
Machinery, except electrical equipment	1.5	1.7	4.5	4.4	4.7	3.5	3.8	7.8
Electrical equipment	1.8	1.9	5.8	5.6	3.6	3.6	9.1	8.2
Transportation equipment	1.6	1.5	5.6	4.4	5.1	4.0	8.7	6.5
Automobiles	.6	.7	4.1	3.3	4.3	3.1	3.4	4.6
Other transportation equipment	1.0	.8	7.3	5.8	6.0	5.3	14.5	9.8
Instruments and related products	.3	.5	4.2	6.1	3.7	5.0	5.0	7.5
Other durable goods industries	1.3	.8	13.3	7.0	8.7	3.6	19.4	10.9
Nondurable goods	10.0	9.7	8.1	6.8	6.5	4.6	10.6	9.9
Food and kindred products	3.0	2.9	11.4	9.6	10.1	7.0	14.7	15.9
Textile mill products	1.0	.9	7.3	6.2	5.5	4.9	9.2	7.7
Apparel and other textile products	2.2	2.2	11.7	9.6	9.5	6.5	12.2	10.4
Paper and allied products	.5	.5	5.5	4.4	4.0	3.0	10.8	8.7
Printing and publishing	1.1	.9	5.9	4.2	4.4	2.6	8.1	6.6
Chemicals and allied products	.7	.7	4.1	4.0	4.2	3.2	3.7	6.2
Rubber and plastics products	.9	.9	9.1	7.5	7.5	4.2	12.2	13.1
Other nondurable goods industries	.5	.6	6.3	6.2	4.2	4.6	9.3	8.5
Transportation and public utilities	3.4	3.3	5.0	4.2	5.3	4.3	4.0	3.9
Railroads and railway express	.2	.3	2.2	3.3	2.3	3.4	--	(1)
Other transportation	2.3	2.2	7.3	5.5	7.9	5.8	4.4	4.0
Communication and other public utilities	.9	.9	3.3	2.8	3.0	2.3	4.1	3.8
Wholesale and retail trade	21.3	20.4	8.4	7.0	7.0	5.7	10.2	8.6
Finance, insurance, and real estate	2.9	2.6	4.5	3.4	3.2	2.6	5.6	4.4
Service industries	16.2	17.4	7.4	6.8	7.7	6.2	7.1	7.2
Professional services	6.4	7.6	5.2	5.3	4.5	4.7	5.6	5.5
All other service industries	9.8	9.8	10.0	8.9	10.5	7.6	9.6	10.0
Agricultural wage and salary workers	3.1	2.5	15.6	10.8	13.0	9.0	25.6	18.5
All other classes of workers	10.6	12.3	3.1	3.1	2.7	2.5	3.7	3.9
No previous work experience	11.9	13.1	--	--	--	--	--	--

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

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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	
	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands	7,095	6,346	2,913	2,312	2,544	2,491	1,638	1,543	5,693	4,836	1,402	1,510
Job losers	3,364	2,733	1,998	1,477	1,035	963	331	293	2,759	2,122	605	611
On layoff	836	636	510	340	243	225	83	71	723	540	113	95
Other job losers	2,528	2,098	1,488	1,138	792	738	248	222	2,036	1,582	492	516
Job leavers	876	890	307	311	412	398	157	182	765	753	112	138
Reentrants	2,009	1,889	512	431	986	998	511	460	1,549	1,370	460	519
New entrants	846	833	96	93	111	132	639	608	620	590	226	243
Total unemployed, percent distribution	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	47.4	43.1	68.6	63.9	40.6	38.6	20.2	19.0	48.5	43.9	43.2	40.4
On layoff	11.8	10.0	17.5	14.7	9.5	9.0	5.1	4.6	12.7	11.2	8.1	6.3
Other job losers	35.6	33.1	51.1	49.2	31.1	29.6	15.1	14.4	35.8	32.7	35.1	34.1
Job leavers	12.3	14.0	10.5	13.4	16.2	16.0	9.6	11.8	13.4	15.6	8.0	9.1
Reentrants	28.3	29.8	17.6	18.6	38.8	40.1	31.2	29.8	27.2	28.3	32.8	34.3
New entrants	11.9	13.1	3.3	4.0	4.4	5.3	39.0	39.4	10.9	12.2	16.1	16.1
UNEMPLOYMENT RATE												
Total unemployment rate	7.4	6.4	5.6	4.4	7.2	6.8	19.1	17.1	6.7	5.5	12.7	13.1
Job loser rate ¹	3.5	2.7	3.9	2.8	2.9	2.6	3.9	3.3	3.3	2.4	5.5	5.3
Job leaver rate ¹	.9	.9	.6	.6	1.2	1.1	1.8	2.0	.9	.9	1.0	1.2
Reentrant rate ¹	2.1	1.9	1.0	.8	2.8	2.7	6.0	5.1	1.8	1.6	4.2	4.5
New entrant rate ¹	.9	.8	.2	.2	.3	.4	7.5	6.7	.7	.7	2.0	2.1

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

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

(Percent distribution)

Reason, sex, and age	November 1977						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over	15 to 26 weeks	27 weeks and over
Total, 16 years and over	6,346	100.0	43.8	31.5	24.7	12.1	12.6
Job losers	2,733	100.0	37.8	31.5	30.7	13.6	17.1
On layoff	636	100.0	56.5	25.4	18.2	11.7	6.5
Other job losers	2,098	100.0	32.2	33.3	34.5	14.2	20.3
Job leavers	890	100.0	48.7	31.6	19.7	10.8	8.9
Reentrants	1,889	100.0	49.5	32.5	18.1	9.2	8.9
New entrants	833	100.0	45.4	28.9	25.6	15.2	10.4
Males, 20 years and over	2,312	100.0	35.5	32.7	31.8	13.5	18.3
Job losers	1,477	100.0	35.5	30.6	33.8	13.6	20.2
On layoff	340	100.0	54.7	29.4	15.9	8.8	7.1
Other job losers	1,138	100.0	29.8	30.9	39.3	15.0	24.3
Job leavers	311	100.0	38.6	38.3	23.2	11.9	11.3
Reentrants	431	100.0	36.4	37.1	26.5	12.8	13.7
New entrants	93	100.0	19.4	28.0	52.7	21.5	31.2
Females, 20 years and over	2,491	100.0	44.4	30.1	25.5	12.6	12.9
Job losers	963	100.0	33.7	32.5	33.8	17.3	16.5
On layoff	225	100.0	52.2	22.1	25.7	18.6	7.1
Other job losers	738	100.0	28.0	35.6	36.3	16.9	19.4
Job leavers	398	100.0	46.0	31.2	22.9	12.1	10.8
Reentrants	998	100.0	52.3	29.5	18.2	9.1	9.1
New entrants	132	100.0	56.8	14.4	28.8	6.8	22.0
Both sexes, 16 to 19 years	1,543	100.0	55.4	31.8	12.7	9.1	3.6
Job losers	293	100.0	62.8	32.8	4.4	1.7	2.7
On layoff	71	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers	222	100.0	58.1	37.8	4.1	1.4	2.7
Job leavers	182	100.0	71.6	21.3	7.1	6.6	.5
Reentrants	460	100.0	55.9	34.7	9.4	5.7	3.7
New entrants	608	100.0	46.9	32.2	20.9	16.1	4.8

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

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

Sex, age, and race	November 1977								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	6,346	5,605	27.7	6.9	72.7	29.4	15.3	6.6	1.59
16 to 19 years	1,543	1,445	15.8	4.1	78.6	21.7	12.8	4.0	1.37
20 to 24 years	1,413	1,266	33.7	6.3	74.7	31.7	15.2	7.2	1.69
25 to 34 years	1,459	1,245	33.5	8.9	71.5	33.6	16.5	5.9	1.70
35 to 44 years	758	651	33.8	10.5	69.0	31.8	14.9	6.8	1.67
45 to 54 years	587	502	28.3	9.4	63.9	34.7	17.1	9.8	1.63
55 to 64 years	432	356	27.8	5.1	63.5	29.5	18.8	12.1	1.57
65 years and over	154	140	12.1	2.9	77.1	18.6	15.7	8.6	1.35
Males, 16 years and over	3,120	2,688	31.1	7.1	71.7	27.1	17.5	8.1	1.63
16 to 19 years	808	747	16.5	3.6	78.0	18.5	15.8	4.4	1.37
20 to 24 years	715	630	37.3	4.8	71.9	29.5	16.0	7.8	1.67
25 to 34 years	715	578	40.7	12.1	71.5	34.1	19.6	8.1	1.86
35 to 44 years	317	258	39.5	12.4	61.6	33.3	15.5	11.2	1.74
45 to 54 years	240	204	30.4	11.8	58.8	28.4	25.0	15.7	1.70
55 to 64 years	225	179	34.6	3.9	72.6	25.1	17.9	12.3	1.66
65 years and over	99	92	19.6	2.2	76.1	21.7	15.2	5.4	1.40
Females, 16 years and over	3,226	2,916	24.5	6.6	73.6	31.4	13.2	5.2	1.55
16 to 19 years	734	698	15.2	4.4	79.2	25.2	9.6	3.4	1.37
20 to 24 years	698	636	30.3	7.9	77.7	33.8	14.3	6.6	1.71
25 to 34 years	743	667	27.3	6.1	71.4	33.1	14.1	4.0	1.56
35 to 44 years	441	392	30.1	9.4	74.0	30.9	14.5	3.6	1.63
45 to 54 years	346	298	26.8	7.7	67.1	38.9	11.4	5.7	1.58
55 to 64 years	207	177	21.5	5.6	53.7	33.9	19.2	11.9	1.46
65 years and over	56	48	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White	4,836	4,205	24.5	7.0	72.9	30.5	15.1	7.5	1.58
Males	2,407	2,031	27.2	7.8	71.2	28.0	17.1	9.4	1.61
Females	2,429	2,175	21.8	6.3	74.4	32.9	13.2	5.7	1.54
Black and other	1,510	1,400	37.4	6.4	72.1	25.9	15.6	3.9	1.61
Males	713	658	43.2	5.2	73.3	24.6	18.5	4.1	1.69
Females	797	742	32.2	7.5	71.2	27.2	13.1	3.8	1.55

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 the jobsearch methods used, sex, and reason for unemployment

Sex and reason	November 1977								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	6,346	5,605	27.7	6.9	72.7	29.4	15.3	6.6	1.59
Job losers	2,733	2,082	36.6	8.1	71.6	31.5	20.4	8.5	1.77
Job leavers	890	894	25.6	9.4	75.6	31.9	13.9	4.1	1.61
Reentrants	1,889	1,807	22.9	4.5	70.5	29.4	11.3	6.0	1.45
New entrants	833	822	18.0	6.2	77.1	21.2	12.3	6.0	1.41
Males, 16 years and over	3,120	2,688	31.1	7.1	71.7	27.1	17.5	8.1	1.63
Job losers	1,671	1,281	39.0	8.2	69.1	29.1	21.5	9.4	1.76
Job leavers	396	404	23.5	10.4	71.3	31.4	15.8	5.0	1.57
Reentrants	677	630	26.5	3.5	75.2	23.7	9.5	8.4	1.47
New entrants	376	372	20.2	6.2	75.8	21.8	19.1	6.2	1.49
Females, 16 years and over	3,226	2,916	24.5	6.6	73.6	31.4	13.2	5.2	1.55
Job losers	1,063	801	32.6	7.9	75.5	35.3	18.6	6.9	1.77
Job leavers	494	490	27.1	8.8	79.0	32.2	12.2	3.5	1.63
Reentrants	1,212	1,177	21.0	5.1	68.2	32.5	12.3	4.7	1.44
New entrants	457	449	16.3	6.2	78.4	20.7	6.7	5.8	1.34

NOTE: See note, table A-15.

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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	
	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977
Total, 16 years and over	7,095	6,346	100.0	100.0	5,467	4,758	100.0	100.0
Less than 5 weeks	2,698	2,781	38.0	43.8	1,853	1,914	33.9	40.2
5 to 14 weeks	2,355	1,997	33.2	31.5	1,805	1,474	33.0	31.0
5 to 10 weeks	1,697	1,485	23.9	23.4	1,280	1,118	23.4	23.5
11 to 14 weeks	658	512	9.3	8.1	524	357	9.6	7.5
15 weeks and over	2,042	1,568	28.8	24.7	1,809	1,370	33.1	28.8
15 to 26 weeks	899	768	12.7	12.1	774	649	14.2	13.6
27 weeks and over	1,143	800	16.1	12.6	1,035	721	18.9	15.2
27 to 51 weeks	576	378	8.1	6.0	537	339	9.8	7.1
52 weeks and over	567	422	8.0	6.6	497	381	9.1	8.0
Average (mean) duration, in weeks	15.0	13.3	--	--	16.7	14.9	--	--
Median duration, in weeks	7.9	6.6	--	--	9.0	7.3	--	--

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

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			Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977
	November 1977										
Total, 16 years and over	6,346	2,781	1,997	768	800	13.3	6.6	38.0	43.8	28.8	24.7
16 to 21 years	2,184	1,153	708	201	122	8.9	4.7	45.9	52.8	18.6	14.8
16 to 19 years	1,543	855	491	141	55	7.9	4.5	46.6	55.4	16.8	12.7
20 to 24 years	1,413	615	470	163	165	12.5	6.5	40.2	43.5	24.2	23.3
25 to 34 years	1,459	586	487	186	200	14.0	7.3	35.8	40.2	31.2	26.4
35 to 44 years	758	318	211	110	120	15.1	7.1	34.2	41.9	31.7	30.3
45 to 54 years	587	206	178	78	125	18.5	8.9	30.8	35.1	39.7	34.6
55 to 64 years	432	149	126	61	96	19.6	9.1	31.6	34.5	44.6	36.3
65 years and over	154	53	34	29	38	21.9	10.2	23.3	34.2	61.5	43.8
Males, 16 years and over	3,120	1,239	1,032	395	454	15.0	7.3	37.1	39.7	32.5	27.2
16 to 21 years	1,132	561	387	117	67	9.6	5.1	45.6	49.6	20.4	16.3
16 to 19 years	808	419	275	83	32	8.6	4.8	46.9	51.8	18.0	14.2
20 to 24 years	715	290	253	87	84	13.3	6.9	39.1	40.6	28.0	24.0
25 to 34 years	715	243	246	108	119	16.6	8.9	33.9	33.9	36.3	31.8
35 to 44 years	317	144	89	46	70	18.6	8.6	31.3	35.8	37.6	36.2
45 to 54 years	240	73	74	26	67	22.7	10.4	30.7	30.5	46.1	38.7
55 to 64 years	225	68	69	29	58	21.5	9.4	29.4	30.4	46.5	38.8
65 years and over	99	33	25	17	24	23.3	10.0	25.6	33.4	58.6	41.2
Females, 16 years and over	3,226	1,541	965	373	346	11.7	5.7	39.2	47.8	24.5	22.3
16 to 21 years	1,053	592	321	84	55	8.1	4.4	46.2	56.3	16.2	13.2
16 to 19 years	734	436	216	58	24	7.1	4.2	46.2	59.4	15.3	11.2
20 to 24 years	698	325	216	76	81	11.8	6.0	41.6	46.5	19.6	22.5
25 to 34 years	743	343	242	77	81	11.5	6.0	37.9	46.2	25.5	21.3
35 to 44 years	441	204	122	64	50	12.6	6.2	36.9	46.3	26.1	25.9
45 to 54 years	346	132	104	53	57	15.6	8.3	31.0	38.3	32.5	31.8
55 to 64 years	207	80	57	31	38	17.5	8.7	34.5	38.9	42.2	33.7
65 years and over	56	20	9	12	15	19.5	10.8	(1)	(1)	(1)	(1)
White	4,836	2,163	1,519	569	586	12.8	6.3	38.9	44.7	28.3	23.9
Males	2,407	1,003	788	271	345	14.5	6.8	38.2	41.7	31.4	25.6
Females	2,429	1,160	731	297	241	11.2	5.7	39.8	47.7	24.5	22.2
Black and other	1,510	618	478	200	214	14.9	7.5	34.3	40.9	30.9	27.4
Males	713	236	243	124	109	16.8	9.0	32.2	33.1	36.9	32.7
Females	797	382	235	75	105	13.1	5.6	36.6	47.9	24.3	22.6
Males:											
Married, spouse present	1,194	427	403	166	197	16.2	7.9	32.3	35.8	37.5	30.5
Widowed, divorced, or separated	319	118	90	32	80	19.7	8.4	31.0	37.0	41.4	34.9
Single (never married)	1,607	694	539	197	177	13.2	6.8	42.2	43.2	26.5	23.3
Females:											
Married, spouse present	1,461	699	445	165	152	11.1	5.7	40.1	47.8	24.9	21.7
Widowed, divorced, or separated	606	269	177	80	80	13.4	6.3	33.5	44.4	32.6	26.4
Single (never married)	1,159	574	344	129	113	11.4	5.1	41.0	49.5	19.3	20.9

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

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

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			Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977
	November 1977										
OCCUPATION											
White-collar workers	1,984	807	611	257	309	14.4	7.5	34.7	40.7	32.0	28.5
Professional and managerial	709	239	249	98	126	16.2	9.4	33.1	33.7	40.2	31.6
Sales workers	293	137	81	26	49	13.7	5.8	39.6	46.7	28.8	25.4
Clerical workers	982	432	281	134	135	13.3	6.8	34.4	44.0	26.9	27.4
Blue-collar workers	2,344	1,036	752	273	284	13.0	6.2	37.6	44.2	30.8	23.7
Craft and kindred workers	604	255	173	79	97	15.3	7.1	34.4	42.3	34.8	29.1
Operatives, except transport	996	459	303	115	118	12.4	5.9	36.2	46.1	29.1	23.4
Transport equipment operatives	192	78	63	33	19	12.3	6.6	44.7	40.3	30.1	26.8
Nonfarm laborers	552	243	212	46	50	12.0	5.9	41.0	44.1	29.1	17.5
Service workers	1,049	479	349	104	117	12.6	6.2	41.0	45.7	25.2	21.1
INDUSTRY¹											
Agriculture	156	98	46	8	3	6.8	4.0	49.7	63.0	13.7	7.5
Construction	491	213	151	61	66	13.8	6.2	39.9	43.4	31.3	25.8
Manufacturing	1,325	581	402	161	182	13.8	6.3	32.9	43.9	34.3	25.8
Durable goods	708	299	212	100	96	14.1	6.7	27.7	42.3	39.4	27.7
Nondurable goods	618	282	189	60	86	13.5	5.9	39.3	45.7	28.2	23.7
Transportation and public utilities	245	100	70	35	40	14.8	6.7	42.3	40.8	33.7	30.6
Wholesale and retail trade	1,298	581	390	160	167	13.0	6.4	42.5	44.8	26.9	25.1
Finance and service industries	1,620	682	555	175	209	13.6	7.1	35.4	42.1	28.9	23.7
Public administration	248	95	86	35	31	13.1	8.9	25.3	38.6	30.0	26.9
No previous work experience	834	379	241	127	87	13.5	6.9	41.4	45.4	22.7	25.7

¹ Includes wage and salary workers only.

A-20. Employed persons by sex and age

[In thousands]

Age and type of industry	Total		Males		Females	
	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977
All industries	88,542	92,473	52,544	54,590	35,998	37,884
16 to 19 years	6,927	7,490	3,613	4,012	3,315	3,478
16 to 17 years	2,714	3,044	1,430	1,664	1,284	1,380
18 to 19 years	4,214	4,446	2,182	2,348	2,031	2,098
20 to 24 years	12,474	13,072	6,813	7,077	5,661	5,996
25 to 54 years	55,500	57,857	33,662	34,781	21,838	23,077
25 to 34 years	22,516	23,831	13,727	14,330	8,789	9,501
35 to 44 years	16,647	17,491	10,047	10,465	6,600	7,027
45 to 54 years	16,337	16,535	9,888	9,986	6,449	6,549
55 to 64 years	10,879	11,157	6,723	6,877	4,156	4,280
55 to 59 years	6,725	6,953	4,102	4,229	2,623	2,723
60 to 64 years	4,154	4,204	2,621	2,647	1,533	1,557
65 years and over	2,762	2,898	1,733	1,845	1,029	1,053
Nonagricultural industries	85,460	89,292	50,013	52,010	35,448	37,282
16 to 19 years	6,606	7,140	3,330	3,715	3,276	3,425
16 to 17 years	2,540	2,866	1,274	1,510	1,265	1,356
18 to 19 years	4,066	4,274	2,056	2,205	2,010	2,069
20 to 24 years	12,132	12,718	6,513	6,772	5,619	5,946
25 to 54 years	53,932	56,234	32,434	33,533	21,499	22,700
25 to 34 years	21,967	23,307	13,296	13,926	8,671	9,381
35 to 44 years	16,185	16,982	9,695	10,071	6,490	6,911
45 to 54 years	15,780	15,945	9,443	9,536	6,338	6,408
55 to 64 years	10,343	10,625	6,281	6,426	4,062	4,199
55 to 59 years	6,437	6,643	3,871	3,972	2,566	2,672
60 to 64 years	3,906	3,981	2,410	2,454	1,496	1,527
65 years and over	2,447	2,576	1,455	1,564	992	1,012
Agriculture	3,081	3,181	2,531	2,580	551	601
16 to 19 years	321	350	283	297	39	53
16 to 17 years	174	177	156	153	18	24
18 to 19 years	147	173	127	143	21	29
20 to 24 years	342	355	300	304	42	50
25 to 54 years	1,567	1,622	1,229	1,246	339	376
25 to 34 years	549	523	432	404	118	120
35 to 44 years	462	509	352	393	110	116
45 to 54 years	556	590	445	449	111	140
55 to 64 years	536	532	442	451	94	81
55 to 59 years	288	309	231	258	57	51
60 to 64 years	248	223	211	193	37	30
65 years and over	315	322	278	281	37	41

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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	
	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977
TOTAL	88,542	92,473	48,931	50,578	32,683	34,405	3,613	4,012	3,315	3,478
White-collar workers	44,738	46,689	21,294	21,951	21,189	22,274	590	640	1,665	1,825
Professional and technical	13,900	14,224	7,826	8,097	5,924	5,981	73	71	77	76
Health workers	2,410	2,555	852	895	1,546	1,647	1	2	13	10
Teachers, except college	3,341	3,241	952	936	2,362	2,280	9	9	18	17
Other professional and technical	8,149	8,428	6,022	6,266	2,016	2,054	63	60	46	49
Managers and administrators, except farm	9,569	9,995	7,479	7,664	1,990	2,227	66	53	33	49
Salaried workers	7,866	8,172	6,165	6,235	1,605	1,837	63	53	34	47
Self-employed workers in retail trade	915	888	630	614	283	274	2	--	--	--
Self-employed workers, except retail trade	787	934	684	816	102	116	2	1	--	2
Sales workers	5,600	5,786	2,923	2,975	2,057	2,165	217	247	402	399
Retail trade	3,068	3,159	935	951	1,593	1,631	155	203	386	374
Other industries	2,532	2,627	1,988	2,024	465	534	62	44	17	25
Clerical workers	15,668	16,684	3,065	3,214	11,218	11,901	233	269	1,152	1,300
Stenographers, typists, and secretaries	4,364	4,654	84	69	3,931	4,210	6	6	342	369
Other clerical workers	11,304	12,030	2,981	3,145	7,287	7,691	227	263	810	931
Blue-collar workers	29,177	30,554	22,006	22,870	4,796	5,086	1,961	2,195	413	403
Craft and kindred workers	11,412	12,100	10,527	11,060	477	565	377	430	30	45
Carpenters	1,081	1,228	1,017	1,122	2	6	60	98	2	2
Construction craft, except carpenters	2,330	2,492	2,229	2,374	23	28	79	91	--	--
Mechanics and repairers	2,979	3,316	2,801	3,142	36	52	138	124	4	--
Metal craft	1,245	1,172	1,184	1,110	32	24	27	35	2	2
Blue-collar worker supervisors, not elsewhere classified	1,482	1,612	1,355	1,452	118	146	8	10	--	4
All other	2,295	2,280	1,940	1,860	266	309	65	73	23	38
Operatives, except transport	10,124	10,507	5,529	5,649	3,748	3,940	576	654	271	264
Durable goods manufacturing	4,524	4,796	2,897	3,007	1,374	1,476	168	217	86	96
Non-durable goods manufacturing	3,197	3,313	1,180	1,208	1,777	1,868	112	126	129	111
Other industries	2,403	2,398	1,452	1,434	597	596	296	311	56	57
Transport equipment operatives	3,315	3,556	2,941	3,108	214	238	140	202	20	8
Drivers, motor vehicles	2,801	3,003	2,469	2,622	199	217	114	158	18	6
All other	514	553	471	486	15	21	25	45	2	1
Nonfarm laborers	4,326	4,391	3,009	3,053	357	344	869	909	91	86
Construction	701	882	576	716	9	14	112	151	4	2
Manufacturing	1,094	1,004	859	747	122	107	108	136	5	15
Other industries	2,531	2,505	1,573	1,590	227	223	649	622	83	70
Service workers	12,000	12,557	3,674	3,794	6,303	6,628	816	920	1,207	1,216
Private household workers	1,247	1,240	17	30	936	965	10	22	283	223
Service workers, except private household	10,753	11,317	3,657	3,763	5,367	5,663	806	898	924	992
Food service workers	3,827	4,099	704	738	2,043	2,116	479	562	601	682
Protective service workers	1,270	1,321	1,164	1,201	81	102	19	13	7	5
All other	5,656	5,897	1,789	1,824	3,243	3,445	308	323	316	305
Farm workers	2,627	2,674	1,957	1,964	395	417	246	257	30	35
Farmers and farm managers	1,490	1,470	1,368	1,349	113	101	9	20	--	--
Farm laborers and supervisors	1,137	1,204	589	615	282	317	236	237	29	35
Paid workers	851	924	555	598	89	113	175	187	29	25
Unpaid family workers	286	280	34	17	193	204	61	50	--	10

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

(Percent distribution)

Occupation and race	Total		Males		Females	
	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977	Nov. 1976	Nov. 1977
TOTAL						
Total employed (thousands)	88,542	92,473	52,544	54,590	35,998	37,884
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	50.5	50.5	41.6	41.4	63.5	63.6
Professional and technical	15.7	15.4	15.0	15.0	16.7	16.0
Managers and administrators, except farm	10.8	10.8	14.4	14.1	5.6	6.0
Sales workers	6.3	6.3	6.0	5.9	6.8	6.8
Clerical workers	17.7	18.0	6.3	6.4	34.4	34.8
Blue-collar workers	33.0	33.0	45.6	45.9	14.5	14.5
Craft and kindred workers	12.9	13.1	20.8	21.0	1.4	1.6
Operatives, except transport	11.4	11.4	11.6	11.5	11.2	11.1
Transport equipment operatives	3.7	3.8	5.9	6.1	.7	.6
Nonfarm laborers	4.9	4.7	7.4	7.3	1.2	1.1
Service workers	13.6	13.6	8.5	8.6	20.9	20.7
Private household workers	1.4	1.3	(1)	.1	3.4	3.1
Other service workers	12.1	12.2	8.5	8.5	17.5	17.6
Farm workers	3.0	2.9	4.2	4.1	1.2	1.2
Farmers and farm managers	1.7	1.6	2.6	2.5	.3	.3
Farm laborers and supervisors	1.3	1.3	1.6	1.6	.9	.9
White						
Total employed (thousands)	78,877	82,451	47,366	49,220	31,512	33,231
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	52.4	52.2	43.3	42.9	65.9	66.1
Professional and technical	16.1	15.8	15.6	15.5	17.0	16.2
Managers and administrators, except farm	11.6	11.6	15.3	15.0	6.0	6.4
Sales workers	6.8	6.7	6.4	6.3	7.5	7.4
Clerical workers	17.8	18.2	6.1	6.1	35.4	36.1
Blue-collar workers	32.4	32.5	44.6	45.1	13.9	14.0
Craft and kindred workers	13.4	13.5	21.3	21.5	1.5	1.7
Operatives, except transport	10.9	11.0	11.1	11.2	10.6	10.5
Transport equipment operatives	3.6	3.7	5.6	5.8	.7	.7
Nonfarm laborers	4.5	4.4	6.7	6.6	1.2	1.1
Service workers	12.2	12.2	7.7	7.9	18.9	18.7
Private household workers	1.0	1.0	(1)	.1	2.5	2.3
Other service workers	11.1	11.2	7.7	7.8	16.3	16.3
Farm workers	3.1	3.0	4.3	4.2	1.3	1.3
Farmers and farm managers	1.8	1.7	2.8	2.7	.3	.3
Farm laborers and supervisors	1.3	1.3	1.5	1.5	.9	1.0
Black and other						
Total employed (thousands)	9,664	10,022	5,178	5,370	4,487	4,652
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	35.6	36.1	26.2	27.7	46.3	45.9
Professional and technical	12.2	12.2	10.1	10.2	14.7	14.5
Managers and administrators, except farm	4.5	4.7	5.9	6.0	2.8	3.2
Sales workers	2.2	2.4	2.3	2.5	2.1	2.4
Clerical workers	16.7	16.8	8.0	9.1	26.7	25.8
Blue-collar workers	37.6	37.2	54.5	53.7	18.1	18.1
Craft and kindred workers	8.8	9.7	15.7	16.9	.9	1.3
Operatives, except transport	16.0	14.7	16.6	14.3	15.4	15.2
Transport equipment operatives	4.7	5.0	8.4	8.9	.4	.4
Nonfarm laborers	8.0	7.9	13.7	13.6	1.5	1.2
Service workers	24.8	24.7	16.1	15.6	34.9	35.3
Private household workers	4.5	4.2	.3	.2	9.5	8.8
Other service workers	20.3	20.5	15.9	15.4	25.4	26.5
Farm workers	2.0	1.9	3.1	3.1	.6	.7
Farmers and farm managers	.4	.4	.7	.7	.1	(1)
Farm laborers and supervisors	1.6	1.6	2.5	2.4	.5	.6

¹ Less than 0.05 percent.

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

[In thousands]

Age and sex	November 1977								
	Nonagricultural 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	82,878	1,409	15,576	65,802	6,062	444	1,283	1,589	310
16 to 19 years	7,049	282	462	6,305	72	19	268	20	62
16 to 17 years	2,822	206	135	2,481	32	12	129	4	44
18 to 19 years	4,227	76	327	3,824	40	7	139	16	17
20 to 24 years	12,388	103	1,610	10,675	305	24	248	85	22
25 to 34 years	21,867	166	4,496	17,204	1,344	96	246	232	45
35 to 44 years	15,474	156	3,290	12,028	1,390	118	167	279	63
45 to 54 years	14,462	235	3,323	10,904	1,371	112	160	358	71
55 to 64 years	9,528	277	2,072	7,179	1,044	53	129	372	32
55 to 59 years	6,011	158	1,375	4,478	600	32	75	214	20
60 to 64 years	3,517	119	697	2,700	444	21	54	157	11
65 years and over	2,020	188	323	1,508	535	21	65	243	15
Males, 16 years and over	47,603	159	7,880	39,564	4,376	32	1,053	1,458	69
16 to 19 years	3,656	51	198	3,407	46	13	226	19	52
16 to 17 years	1,477	36	69	1,372	23	10	112	4	37
18 to 19 years	2,179	15	129	2,035	22	3	113	15	15
20 to 24 years	6,567	21	650	5,895	199	6	208	84	12
25 to 34 years	12,993	18	2,294	10,681	930	3	196	205	3
35 to 44 years	9,102	5	1,698	7,399	969	--	137	255	1
45 to 54 years	8,487	12	1,742	6,733	1,046	3	123	326	1
55 to 64 years	5,638	28	1,111	4,498	785	3	104	347	--
55 to 59 years	3,506	11	711	2,784	463	2	57	201	--
60 to 64 years	2,131	17	400	1,714	322	1	47	146	--
65 years and over	1,160	24	186	950	399	4	59	222	--
Females, 16 years and over	35,184	1,250	7,696	26,238	1,686	412	229	131	241
16 to 19 years	3,393	232	264	2,897	26	6	42	1	10
16 to 17 years	1,345	171	65	1,109	9	2	16	--	7
18 to 19 years	2,048	61	198	1,788	17	4	26	1	2
20 to 24 years	5,822	82	960	4,780	106	18	39	--	11
25 to 34 years	8,873	149	2,202	6,523	414	94	50	28	42
35 to 44 years	6,372	152	1,592	4,629	421	118	30	23	62
45 to 54 years	5,974	223	1,581	4,171	325	109	38	33	70
55 to 64 years	3,890	249	960	2,681	259	50	24	25	32
55 to 59 years	2,505	147	664	1,694	137	30	17	14	20
60 to 64 years	1,385	102	297	986	122	20	7	11	12
65 years and over	859	165	137	558	136	16	6	21	14

A-24. Employed persons by industry and occupation

[In thousands]

Industry	November 1977											
	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	3,181	63	37	9	86	40	22	36	210	--	5	2,674
Mining	866	120	91	--	89	249	226	59	18	--	13	--
Construction	5,787	195	655	24	377	3,231	236	157	882	--	32	--
Manufacturing	20,882	2,083	1,441	450	2,497	4,066	8,109	818	1,004	--	414	--
Durable goods	12,366	1,366	787	169	1,351	2,673	4,796	402	602	--	221	--
Nondurable goods	8,516	717	654	281	1,146	1,393	3,313	417	402	--	193	--
Transportation and public utilities	5,905	503	585	53	1,256	1,285	187	1,406	464	--	165	--
Wholesale and retail trade	19,108	373	3,697	4,013	3,364	1,472	970	783	1,197	--	3,240	--
Wholesale trade	3,705	108	744	854	782	342	177	413	252	--	33	--
Retail trade	15,403	266	2,953	3,159	2,581	1,130	793	370	945	--	3,207	--
Finance, insurance, and real estate	5,172	270	1,011	1,104	2,367	105	10	9	59	--	236	--
Services	26,462	9,728	1,790	129	4,719	1,338	697	227	436	1,240	6,159	--
Private households	1,430	15	--	--	8	6	3	6	102	1,240	50	--
Other service industries	25,032	9,713	1,790	129	4,711	1,332	694	221	334	--	6,109	--
Public administration	5,110	889	688	4	1,930	314	50	60	122	--	1,054	--

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

(In thousands)

Reason not working	All industries		Nonagricultural industries					
			Total		Wage and salary workers ¹			
	Nov. 1976				Nov. 1977		Paid absences ²		Unpaid absences^{2}
			Nov. 1976	Nov. 1977			Nov. 1976	Nov. 1977
Total	3,386	3,577	3,241	3,470	1,400	1,614	1,469	1,473
Vacation	1,079	1,182	1,045	1,156	736	891	221	180
Illness	1,382	1,388	1,347	1,356	542	577	679	647
Bad weather	78	68	56	50	--	--	--	--
Industrial dispute	84	144	84	144	--	--	--	--
All other reasons	762	795	709	763	121	146	568	645
Males	2,029	2,189	1,909	2,091	935	1,098	741	747
Vacation	716	832	683	808	517	662	116	85
Illness	802	802	773	776	342	354	366	338
All other reasons ³	511	555	453	507	75	82	259	324
Females	1,357	1,388	1,332	1,379	466	516	729	726
Vacation	363	350	362	348	219	229	107	96
Illness	580	586	574	580	200	222	313	310
All other reasons ³	414	452	396	451	47	65	309	320

¹ Excludes private household.

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

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

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

Hours of work	November 1977					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total at work	88,897	85,823	3,074	100.0	100.0	100.0
1-34 hours	25,436	24,481	955	28.6	28.5	31.1
1-4 hours	790	724	66	.9	.8	2.1
5-14 hours	4,538	4,312	226	5.1	5.0	7.4
15-29 hours	11,874	11,377	496	13.4	13.3	16.1
30-34 hours	8,234	8,068	167	9.3	9.4	5.4
35 hours and over	63,460	61,343	2,118	71.4	71.5	68.9
35-39 hours	5,448	5,314	134	6.1	6.2	4.4
40 hours	34,204	33,714	490	38.5	39.3	15.9
41 hours and over	23,808	22,315	1,494	26.8	26.0	48.6
41 to 48 hours	9,238	9,012	226	10.4	10.5	7.4
49 to 59 hours	8,083	7,669	415	9.1	8.9	13.5
60 hours and over	6,487	5,634	853	7.3	6.6	27.7
Average hours, total at work	38.3	38.1	44.2	--	--	--
Average hours, workers on full-time schedules	42.8	42.5	52.8	--	--	--

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

[Numbers in thousands]

Reason for working less than 35 hours	November 1977					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total	25,436	9,882	15,554	24,480	9,559	14,921
Economic reasons	3,320	1,313	2,007	3,083	1,189	1,894
Slack work	1,600	977	623	1,417	864	553
Material shortages or repairs to plant and equipment	81	81	--	76	76	--
New job started during week	198	198	--	196	196	--
Job terminated during week	57	57	--	53	53	--
Could find only part-time work	1,384	--	1,384	1,340	--	1,340
Other reasons	22,116	8,569	13,547	21,397	8,370	13,027
Does not want, or unavailable for, full-time work	11,351	--	11,351	10,935	--	10,935
Vacation	668	668	--	666	666	--
Illness	1,823	1,633	190	1,770	1,609	161
Bad weather	769	769	--	654	654	--
Industrial dispute	24	24	--	24	24	--
Legal or religious holiday	4,109	4,109	--	4,098	4,098	--
Full time for this job	1,412	--	1,412	1,371	--	1,371
All other reasons	1,961	1,366	595	1,880	1,318	562
Average hours:						
Economic reasons	21.1	23.5	19.6	21.2	23.7	19.7
Other reasons	21.9	27.7	18.2	21.9	27.8	18.2
Worked 30 to 34 hours:						
Economic reasons	923	516	407	868	487	381
Other reasons	7,311	5,351	1,960	7,200	5,290	1,910

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

[Numbers in thousands]

Industry	November 1977								
	Total at work	Full- or part-time status						Average hours, total at work	Average hours, workers on full-time schedules
		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 ¹	85,823	3,083	13,027	69,713	47,398	9,012	13,303	38.1	42.5
Wage and salary workers	79,654	2,753	11,843	65,058	45,342	8,448	11,268	37.8	42.1
Construction	4,570	288	221	4,061	3,046	461	554	38.2	40.4
Manufacturing	19,589	489	655	18,445	12,553	2,991	2,901	41.1	42.3
Durable goods	11,562	176	269	11,117	7,462	1,838	1,817	41.6	42.4
Nondurable goods	8,027	312	386	7,329	5,091	1,153	1,085	40.2	42.1
Transportation and public utilities	5,457	147	379	4,931	3,441	554	936	40.4	42.5
Wholesale and retail trade	16,660	789	4,411	11,460	7,032	1,923	2,505	36.1	43.6
Finance, insurance, and real estate	4,681	66	537	4,078	3,041	360	677	37.8	40.5
Service industries	23,016	917	5,262	16,837	12,336	1,626	2,875	35.2	41.8
Private households	1,363	180	753	430	288	50	92	23.2	44.4
All other industries	21,653	737	4,509	16,407	12,048	1,576	2,783	36.0	41.6
Public administration	4,909	37	361	4,511	3,508	413	590	38.9	40.8
Self-employed workers	5,726	320	987	4,419	1,933	546	1,940	41.4	48.3
Unpaid family workers	444	9	197	238	124	18	96	36.1	48.5

¹ Includes mining not shown separately.

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

[Numbers in thousands]

Sex, age, race, and marital status	November 1977							
	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	85,823	3,083	13,027	69,713	47,398	22,315	38.1	42.5
16 to 21 years	11,732	755	4,743	6,234	4,751	1,483	29.5	40.5
16 to 19 years	7,000	445	3,731	2,824	2,218	606	26.1	39.9
16 to 17 years	2,811	100	2,321	390	319	71	19.0	38.5
18 to 19 years	4,189	345	1,410	2,434	1,900	534	30.9	40.1
20 years and over	78,823	2,637	9,296	66,890	45,181	21,709	39.1	42.6
20 to 24 years	12,384	631	1,882	9,871	7,222	2,649	36.9	41.4
25 years and over	66,439	2,006	7,414	57,019	37,959	19,060	39.5	42.8
25 to 44 years	38,859	1,168	3,778	33,913	22,141	11,772	40.1	43.1
45 to 64 years	25,205	729	2,428	22,048	15,111	6,937	39.7	42.5
65 years and over	2,375	110	1,208	1,057	708	349	27.9	42.0
Males, 16 years and over	49,919	1,400	4,104	44,415	26,791	17,624	41.3	44.1
16 to 21 years	6,107	355	2,271	3,481	2,402	1,079	31.3	41.8
16 to 19 years	3,640	218	1,852	1,570	1,130	440	27.5	41.0
16 to 17 years	1,484	55	1,195	234	181	53	20.1	39.4
18 to 19 years	2,156	163	657	1,336	949	387	32.6	41.2
20 years and over	46,279	1,182	2,252	42,845	25,662	17,183	42.4	44.2
20 to 24 years	6,584	282	736	5,566	3,613	1,953	39.2	43.0
25 years and over	39,695	900	1,516	37,279	22,049	15,230	42.9	44.4
25 to 44 years	23,165	509	445	22,211	12,805	9,406	43.8	44.7
45 to 64 years	15,091	325	399	14,367	8,807	5,560	42.8	43.9
65 years and over	1,439	67	672	700	436	264	29.6	42.2
Females, 16 years and over	35,903	1,682	8,923	25,298	20,607	4,691	33.6	39.8
16 to 21 years	5,625	400	2,473	2,752	2,348	404	27.6	38.9
16 to 19 years	3,360	228	1,879	1,253	1,087	166	24.6	38.6
16 to 17 years	1,327	46	1,126	155	137	18	17.8	37.0
18 to 19 years	2,033	181	754	1,098	951	147	29.1	38.8
20 years and over	32,544	1,455	7,044	24,045	19,520	4,525	34.5	39.8
20 to 24 years	5,800	349	1,146	4,305	3,609	696	34.2	39.4
25 years and over	26,744	1,106	5,898	19,740	15,911	3,829	34.6	39.9
25 to 44 years	15,694	659	3,332	11,703	9,336	2,367	34.8	40.0
45 to 64 years	10,113	404	2,029	7,680	6,303	1,377	35.0	39.8
65 years and over	936	43	536	357	271	86	25.3	41.6
RACE								
White	76,451	2,547	11,926	61,978	41,034	20,944	38.2	42.7
Males	44,972	1,166	3,727	40,079	23,443	16,636	41.6	44.3
Females	31,478	1,381	8,199	21,898	17,589	4,309	33.4	39.9
Black and other	9,372	535	1,102	7,735	6,365	1,370	36.9	40.6
Males	4,947	234	378	4,335	3,348	987	38.8	41.7
Females	4,425	301	724	3,400	3,017	383	34.7	39.3
MARITAL STATUS								
Males:								
Married, spouse present	35,423	708	1,197	33,518	19,460	14,058	43.2	44.5
Widowed, divorced, or separated	3,681	160	207	3,314	2,084	1,230	41.1	43.6
Single (never married)	10,815	532	2,701	7,582	5,246	2,336	35.0	42.4
Females:								
Married, spouse present	20,523	831	5,179	14,513	11,827	2,686	33.8	39.8
Widowed, divorced, or separated	6,622	369	1,012	5,241	4,198	1,043	35.7	40.0
Single (never married)	8,758	482	2,732	5,544	4,583	961	31.4	39.6

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

[Numbers in thousands]

Occupational group and sex	November 1977								
	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									
White-collar workers	45,162	932	6,843	37,387	25,032	4,385	7,970	38.6	42.7
Professional and technical	13,749	250	1,693	11,806	7,746	1,364	2,696	39.3	42.8
Managers and administrators, except farm	9,638	67	472	9,099	4,378	1,302	3,419	45.4	46.9
Sales workers	5,577	196	1,467	3,914	2,367	539	1,008	36.2	43.7
Clerical workers	16,198	420	3,211	12,567	10,540	1,180	847	34.8	39.3
Blue-collar workers	29,103	1,353	2,143	25,607	17,240	3,922	4,445	39.7	42.5
Craft and kindred workers	11,532	416	421	10,695	6,868	1,720	2,107	41.3	42.8
Operatives, except transport	9,980	479	638	8,863	6,338	1,361	1,164	39.5	41.8
Transport equipment operatives	3,404	158	298	2,948	1,661	443	844	41.6	45.2
Nonfarm laborers	4,187	300	787	3,100	2,372	397	331	34.7	40.5
Service workers	12,041	838	4,123	7,080	5,331	743	1,006	32.0	42.0
Private household	1,203	146	671	386	263	49	74	23.2	43.5
Other service workers	10,838	692	3,452	6,694	5,068	694	932	33.0	41.9
Males									
White-collar workers	21,860	244	1,544	20,072	10,891	2,752	6,429	43.2	45.4
Professional and technical	7,913	88	548	7,277	4,279	894	2,104	42.3	44.4
Managers and administrators, except farm	7,445	55	197	7,193	3,114	1,029	3,050	47.1	48.0
Sales workers	3,146	51	384	2,711	1,436	406	869	41.7	45.2
Clerical workers	3,355	49	416	2,890	2,060	423	407	38.4	41.6
Blue-collar workers	23,855	1,006	1,488	21,361	13,838	3,378	4,145	40.5	43.0
Craft and kindred workers	10,949	394	322	10,233	6,539	1,650	2,044	41.5	42.9
Operatives, except transport	5,977	201	323	5,453	3,550	935	968	41.2	43.1
Transport equipment operatives	3,167	141	186	2,840	1,579	436	825	42.6	45.3
Nonfarm laborers	3,763	271	656	2,836	2,170	357	309	34.9	40.6
Service workers	4,541	173	1,102	3,266	2,214	396	656	36.3	43.6
Private household	53	5	23	25	11	9	5	28.9	51.3
Other service workers	4,488	168	1,079	3,241	2,202	387	652	36.4	43.5
Females									
White-collar workers	23,302	688	5,298	17,316	14,143	1,633	1,540	34.3	39.6
Professional and technical	5,836	161	1,145	4,530	3,468	470	592	35.2	40.2
Managers and administrators, except farm	2,193	12	275	1,906	1,264	273	369	39.9	42.7
Sales workers	2,431	145	1,083	1,203	931	132	140	29.1	40.1
Clerical workers	12,842	371	2,795	9,676	8,479	757	440	33.9	38.6
Blue-collar workers	5,248	347	656	4,245	3,401	544	300	36.2	39.9
Craft and kindred workers	583	22	98	463	330	70	63	37.0	41.5
Operatives, except transport	4,004	278	315	3,411	2,788	427	196	37.0	39.6
Transport equipment operatives	237	17	112	108	82	7	19	29.1	41.6
Nonfarm laborers	424	29	131	264	201	40	23	32.1	40.1
Service workers	7,500	665	3,021	3,814	3,119	346	349	29.4	40.6
Private household	1,150	141	648	361	252	40	69	22.9	43.0
Other service workers	6,350	524	2,373	3,453	2,867	306	280	30.6	40.4

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

[Numbers in thousands]

Employment status	November 1977								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	8,241	4,194	4,047	6,926	3,534	3,392	1,315	661	654
Civilian labor force	1,495	804	691	1,394	736	658	101	68	33
Employed	1,273	665	609	1,221	626	595	53	39	14
Agriculture	106	92	13	101	87	14	5	5	--
Nonagricultural industries	1,168	573	595	1,120	539	581	48	34	14
Unemployed	222	140	82	173	111	63	49	29	19
Unemployment rate	14.9	17.4	11.9	12.4	15.1	9.6	48.5	(1)	(1)
Not in labor force	6,745	3,390	3,355	5,531	2,797	2,734	1,214	593	621
Keeping house	52	12	40	48	11	37	4	1	3
Going to school	6,593	3,328	3,265	5,399	2,744	2,655	1,194	584	610
Unable to work	1	--	1	1	--	1	--	--	--
All other reasons	100	51	49	84	43	41	15	8	8

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

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

Characteristics	November 1977					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,273	665	609	100.0	100.0	100.0
Nonagricultural industries	1,168	573	595	91.8	86.1	97.7
Wage and salary workers	1,060	488	572	83.3	73.5	93.9
Private household workers	447	66	381	35.1	9.9	62.6
Government workers	39	23	16	3.1	3.5	2.6
Other wage and salary workers	574	399	175	45.1	60.1	28.7
Self-employed workers	96	79	16	7.5	11.9	2.6
Unpaid family workers	12	5	7	.9	.8	1.1
Agriculture	106	92	13	8.2	13.9	2.3
Wage and salary workers	55	46	9	4.3	6.9	1.5
Self-employed workers	1	2	--	.1	.3	--
Unpaid family workers	49	44	5	3.8	6.6	.8
OCCUPATION						
Total	1,273	665	609	100.0	100.0	100.0
White-collar workers	300	222	78	23.6	33.4	13.0
Professional and technical	8	6	2	.6	.9	.3
Managers and administrators, except farm	6	6	--	.5	.9	--
Sales workers	227	180	48	17.8	27.1	7.9
Clerical workers	59	30	29	4.6	4.5	4.8
Blue-collar workers	173	158	16	13.7	23.8	2.6
Craft and kindred workers	15	15	--	1.2	2.3	--
Operatives, except transport	34	29	5	2.7	4.4	.8
Transport equipment operatives	3	3	--	.2	.5	--
Nonfarm laborers	122	111	11	9.6	16.7	1.8
Service workers	700	196	503	54.9	29.5	82.5
Private household workers	409	29	380	32.1	4.4	62.3
Other service workers	290	167	123	22.8	25.2	20.2
Farm workers	101	89	12	7.9	13.3	2.0
Farmers and farm managers	2	2	--	.2	.3	--
Farm laborers and supervisors	98	86	12	7.7	13.0	2.0

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-33. Employment status of the noninstitutional population by sex and age, seasonally adjusted

[Numbers in thousands]

Employment status	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
TOTAL													
Total noninstitutional population ¹	157,006	157,176	157,381	157,584	157,782	157,986	158,228	158,456	158,682	158,899	159,114	159,334	159,522
Armed Forces ¹	2,149	2,146	2,133	2,137	2,138	2,132	2,128	2,129	2,135	2,137	2,131	2,134	2,132
Civilian noninstitutional population ¹	154,857	155,031	155,248	155,447	155,643	155,854	156,101	156,327	156,547	156,761	156,982	157,201	157,389
Civilian labor force	95,871	95,960	95,516	96,145	96,539	96,760	97,158	97,641	97,305	97,697	97,868	98,102	98,998
Percent of civilian population	61.9	61.9	61.5	61.9	62.0	62.1	62.2	62.5	62.2	62.3	62.3	62.4	62.9
Employed	88,220	88,441	88,558	88,962	89,475	90,023	90,408	90,679	90,561	90,771	91,095	91,230	92,180
Percent of total population	56.2	56.3	56.3	56.5	56.7	57.0	57.1	57.2	57.1	57.1	57.3	57.3	57.8
Agriculture	3,248	3,257	3,090	3,090	3,116	3,260	3,386	3,338	3,213	3,252	3,215	3,272	3,362
Nonagricultural industries	84,972	85,184	85,468	85,872	86,359	86,763	87,022	87,341	87,348	87,519	87,880	87,958	88,818
Unemployed	7,651	7,519	6,958	7,183	7,064	6,737	6,750	6,962	6,744	6,926	6,773	6,872	6,818
Unemployment rate	8.0	7.8	7.3	7.5	7.3	7.0	6.9	7.1	6.9	7.1	6.9	7.0	6.9
Not in labor force	58,986	59,071	59,732	59,302	59,104	59,094	58,943	58,686	59,242	59,064	59,114	59,099	58,391
Males, 20 years and over													
Total noninstitutional population ¹	66,699	66,835	66,930	67,025	67,114	67,209	67,324	67,431	67,537	67,642	67,745	67,852	67,948
Civilian noninstitutional population ¹	65,001	65,140	65,250	65,342	65,423	65,522	65,641	65,743	65,845	65,947	66,056	66,161	66,257
Civilian labor force	52,066	52,078	51,842	52,092	52,061	52,089	52,282	52,497	52,494	52,588	52,457	52,844	53,033
Percent of civilian population	80.1	79.9	79.5	79.7	79.6	79.5	79.6	79.9	79.7	79.7	79.4	79.9	80.0
Employed	48,773	48,859	48,961	49,091	49,267	49,465	49,531	49,859	49,794	49,854	49,884	50,043	50,421
Percent of total population	73.1	73.1	73.2	73.2	73.4	73.6	73.6	73.9	73.7	73.7	73.6	73.8	74.2
Agriculture	2,283	2,273	2,209	2,230	2,208	2,280	2,373	2,372	2,305	2,355	2,343	2,338	2,318
Nonagricultural industries	46,490	46,586	46,752	46,861	47,059	47,185	47,158	47,487	47,489	47,499	47,541	47,705	48,103
Unemployed	3,293	3,219	2,881	3,001	2,794	2,624	2,751	2,638	2,700	2,734	2,573	2,801	2,612
Unemployment rate	6.3	6.2	5.6	5.8	5.4	5.0	5.3	5.0	5.1	5.2	4.9	5.3	4.9
Not in labor force	12,935	13,062	13,408	13,250	13,362	13,433	13,359	13,246	13,351	13,359	13,599	13,317	13,224
Females, 20 years and over													
Total noninstitutional population ¹	73,491	73,535	73,642	73,746	73,852	73,958	74,081	74,198	74,315	74,429	74,543	74,660	74,768
Civilian noninstitutional population ¹	73,401	73,445	73,550	73,654	73,757	73,863	73,987	74,101	74,217	74,332	74,444	74,561	74,669
Civilian labor force	34,848	34,938	34,740	34,982	35,295	35,455	35,634	35,675	35,667	35,723	36,201	35,931	36,505
Percent of civilian population	47.5	47.6	47.2	47.5	47.9	48.0	48.2	48.1	48.1	48.1	48.6	48.2	48.9
Employed	32,208	32,340	32,331	32,477	32,750	32,985	33,288	33,116	33,212	33,172	33,672	33,474	33,921
Percent of total population	43.8	44.0	43.9	44.0	44.3	44.6	44.9	44.6	44.7	44.6	45.2	44.8	45.4
Agriculture	558	573	488	485	496	577	597	564	525	515	492	541	597
Nonagricultural industries	31,650	31,767	31,843	31,992	32,254	32,408	32,691	32,552	32,687	32,657	33,180	32,933	33,324
Unemployed	2,640	2,598	2,409	2,505	2,545	2,470	2,346	2,559	2,455	2,551	2,529	2,457	2,584
Unemployment rate	7.6	7.4	6.9	7.2	7.2	7.0	6.6	7.2	6.9	7.1	7.0	6.8	7.1
Not in labor force	38,553	38,507	38,810	38,672	38,462	38,408	38,353	38,426	38,550	38,609	38,243	38,630	38,164
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,816	16,806	16,810	16,813	16,816	16,819	16,823	16,827	16,830	16,828	16,825	16,822	16,806
Civilian noninstitutional population ¹	16,455	16,446	16,448	16,451	16,464	16,468	16,473	16,483	16,485	16,483	16,483	16,480	16,463
Civilian labor force	8,957	8,944	8,934	8,971	9,183	9,216	9,242	9,469	9,144	9,386	9,210	9,327	9,460
Percent of civilian population	54.4	54.4	54.3	55.1	55.8	56.0	56.1	57.4	55.5	56.9	55.9	56.6	57.5
Employed	7,239	7,242	7,266	7,394	7,458	7,573	7,589	7,704	7,555	7,745	7,539	7,713	7,838
Percent of total population	43.0	43.1	43.2	44.0	44.4	45.0	45.1	45.8	44.9	46.0	44.8	45.9	46.6
Agriculture	407	411	393	375	412	403	416	402	383	382	380	393	447
Nonagricultural industries	6,832	6,831	6,873	7,019	7,046	7,170	7,173	7,302	7,172	7,363	7,159	7,320	7,391
Unemployed	1,718	1,702	1,668	1,677	1,725	1,643	1,653	1,765	1,589	1,641	1,671	1,614	1,622
Unemployment rate	19.2	19.0	18.7	18.5	18.8	17.8	17.9	18.6	17.4	17.5	18.1	17.3	17.1
Not in labor force	7,498	7,502	7,514	7,380	7,281	7,252	7,231	7,014	7,341	7,097	7,273	7,153	7,003

¹ The population and Armed Forces figures are not adjusted for seasonal variations. NOTE: Detail for the household data shown in tables A-33 through A-43 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.

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

[Numbers in thousands]

Full- and part-time employment status	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
FULL TIME													
Total, 16 years and over:													
Civilian labor force	81,786	82,048	81,730	81,946	82,074	82,229	82,738	83,306	82,994	83,257	83,302	83,519	84,081
Employed	75,601	75,923	76,223	76,295	76,606	76,886	77,349	77,905	77,587	77,624	77,895	78,019	78,698
Unemployed	6,185	6,125	5,507	5,651	5,468	5,343	5,389	5,401	5,407	5,633	5,407	5,500	5,383
Unemployment rate	7.6	7.5	6.7	6.9	6.7	6.5	6.5	6.5	6.5	6.8	6.5	6.6	6.4
PART TIME													
Total, 16 years and over:													
Civilian labor force	14,046	13,912	13,980	14,265	14,426	14,587	14,435	14,192	14,229	14,498	14,635	14,639	14,857
Employed	12,577	12,546	12,549	12,736	12,820	13,146	13,006	12,668	12,925	13,205	13,244	13,223	13,428
Unemployed	1,469	1,366	1,431	1,529	1,606	1,441	1,429	1,524	1,304	1,293	1,391	1,416	1,429
Unemployment rate	10.5	9.8	10.2	10.7	11.1	9.9	9.9	10.7	9.2	8.9	9.5	9.7	9.6

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.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Characteristics	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
WHITE													
Total, 16 years and over:													
Civilian labor force	84,816	84,854	84,616	85,086	85,482	85,642	85,937	86,268	85,968	86,285	86,471	86,861	87,442
Employed	78,647	78,828	78,923	79,365	79,832	80,249	80,603	80,813	80,752	81,010	81,214	81,540	82,216
Unemployed	6,169	6,026	5,693	5,721	5,650	5,393	5,334	5,455	5,216	5,275	5,257	5,321	5,226
Unemployment rate	7.3	7.1	6.7	6.7	6.6	6.3	6.2	6.3	6.1	6.1	6.1	6.1	6.0
Males, 20 years and over:													
Civilian labor force	46,667	46,624	46,347	46,605	46,584	46,600	46,769	46,967	46,948	47,086	47,057	47,381	47,490
Employed	43,996	44,044	44,035	44,159	44,299	44,434	44,563	44,856	44,811	44,987	45,042	45,233	45,447
Unemployed	2,671	2,580	2,312	2,446	2,285	2,166	2,206	2,111	2,137	2,099	2,015	2,148	2,043
Unemployment rate	5.7	5.5	5.0	5.2	4.9	4.6	4.7	4.5	4.6	4.5	4.3	4.5	4.3
Females, 20 years and over:													
Civilian labor force	30,138	30,211	30,071	30,261	30,588	30,663	30,838	30,879	30,868	30,873	31,188	31,135	31,523
Employed	28,017	28,143	28,170	28,328	28,604	28,781	29,021	28,895	28,958	28,921	29,253	29,198	29,565
Unemployed	2,121	2,068	1,901	1,933	1,984	1,882	1,817	1,984	1,910	1,952	1,935	1,937	1,958
Unemployment rate	7.0	6.8	6.3	6.4	6.5	6.1	5.9	6.4	6.2	6.3	6.2	6.2	6.2
Both sexes, 16 to 19 years:													
Civilian labor force	8,011	8,019	8,198	8,220	8,310	8,379	8,330	8,422	8,152	8,326	8,226	8,345	8,429
Employed	6,634	6,641	6,718	6,878	6,929	7,034	7,019	7,062	6,983	7,102	6,919	7,109	7,204
Unemployed	1,377	1,378	1,480	1,342	1,381	1,345	1,311	1,360	1,169	1,224	1,307	1,236	1,225
Unemployment rate	17.2	17.2	18.1	16.3	16.6	16.1	15.7	16.1	14.3	14.7	15.9	14.8	14.5
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	11,114	11,109	11,030	11,163	11,104	11,071	11,171	11,325	11,236	11,402	11,359	11,375	11,575
Employed	9,618	9,623	9,648	9,697	9,690	9,711	9,730	9,833	9,758	9,744	9,868	9,799	9,976
Unemployed	1,496	1,486	1,382	1,466	1,414	1,360	1,441	1,492	1,478	1,658	1,491	1,576	1,599
Unemployment rate	13.5	13.4	12.5	13.1	12.7	12.3	12.9	13.2	13.2	14.5	13.1	13.9	13.8
Males, 20 years and over:													
Civilian labor force	5,437	5,457	5,464	5,523	5,506	5,432	5,502	5,551	5,494	5,514	5,414	5,516	5,556
Employed	4,806	4,838	4,907	4,976	4,991	4,972	4,959	5,018	4,941	4,867	4,849	4,872	4,981
Unemployed	631	619	557	547	515	460	543	533	553	647	565	644	575
Unemployment rate	11.6	11.3	10.2	9.9	9.4	8.5	9.9	9.6	10.1	11.7	10.4	11.7	10.3
Females, 20 years and over:													
Civilian labor force	4,728	4,714	4,674	4,758	4,725	4,775	4,811	4,784	4,741	4,847	4,972	4,860	4,988
Employed	4,209	4,173	4,171	4,167	4,176	4,188	4,245	4,215	4,223	4,257	4,410	4,307	4,366
Unemployed	519	541	503	591	549	587	566	569	518	590	562	553	622
Unemployment rate	11.0	11.5	10.8	12.4	11.6	12.3	11.8	11.9	10.9	12.2	11.3	11.4	12.5
Both sexes, 16 to 19 years:													
Civilian labor force	949	938	892	882	873	864	858	990	1,001	1,041	973	999	1,031
Employed	603	612	570	554	523	551	526	600	594	620	609	620	629
Unemployed	346	326	322	328	350	313	332	390	407	421	364	379	402
Unemployment rate	36.5	34.8	36.1	37.2	40.1	36.2	38.7	39.4	40.7	40.4	37.4	37.9	39.0

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Selected categories	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Characteristics													
Total (all civilian workers)	8.0	7.8	7.3	7.5	7.3	7.0	6.9	7.1	6.9	7.1	6.9	7.0	6.9
Males, 20 years and over	6.3	6.2	5.6	5.8	5.4	5.0	5.3	5.0	5.1	5.2	4.9	5.3	4.9
Females, 20 years and over	7.6	7.4	6.9	7.2	7.2	7.0	6.6	7.2	6.9	7.1	7.0	6.8	7.1
Both sexes, 16-19 years	19.2	19.0	18.7	18.5	18.8	17.8	17.9	18.6	17.4	17.5	18.1	17.3	17.1
White	7.3	7.1	6.7	6.7	6.6	6.3	6.2	6.3	6.1	6.1	6.1	6.1	6.0
Black and other	13.5	13.4	12.5	13.1	12.7	12.3	12.9	13.2	13.2	14.5	13.1	13.9	13.8
Household heads	5.3	5.1	4.8	4.9	4.6	4.4	4.5	4.3	4.3	4.6	4.5	4.6	4.3
Married men	4.5	4.3	3.8	4.1	3.7	3.6	3.6	3.4	3.4	3.5	3.4	3.7	3.4
Full-time workers	7.6	7.5	6.7	6.9	6.7	6.5	6.5	6.5	6.5	6.8	6.5	6.6	6.4
Part-time workers	10.5	9.8	10.2	10.7	11.1	9.9	9.9	10.7	9.2	8.9	9.5	9.7	9.6
Unemployed 15 weeks and over ¹	2.6	2.6	2.4	2.3	2.0	1.9	1.9	1.8	1.9	1.9	1.9	1.9	2.0
Labor force time lost ²	8.6	8.4	8.0	7.9	7.8	7.4	7.5	7.5	7.4	7.7	7.4	7.5	7.5
OCCUPATION													
White-collar workers	4.7	4.5	4.5	4.6	4.7	4.4	4.3	4.2	4.0	4.2	4.2	4.1	4.3
Professional and technical	3.4	3.3	3.3	3.3	3.1	3.2	2.9	3.0	2.8	3.0	3.0	3.0	3.0
Managers and administrators, except farm	3.1	3.1	3.0	2.8	3.4	2.9	2.8	2.7	2.6	2.5	2.5	2.6	3.0
Sales workers	5.7	5.0	5.7	5.6	5.5	5.1	5.5	5.2	5.4	5.3	5.1	5.0	5.0
Clerical workers	6.3	6.1	6.0	6.4	6.5	6.0	5.7	5.7	5.4	5.8	6.0	5.7	5.7
Blue-collar workers	9.7	9.6	8.4	8.7	8.3	7.8	7.9	7.7	8.2	8.4	7.9	8.3	7.9
Craft and kindred workers	7.0	7.0	6.1	6.5	6.0	4.9	5.6	5.6	5.6	5.5	5.2	5.5	5.3
Operatives, except transport	11.3	11.0	9.2	9.6	9.2	9.3	8.9	9.4	10.1	10.0	10.2	10.2	9.7
Transport equipment operatives	8.2	8.1	7.2	7.7	6.9	6.0	6.7	5.7	7.5	7.6	5.7	6.5	5.4
Nonfarm laborers	13.5	13.9	12.9	12.8	13.2	12.6	12.5	10.9	10.7	12.6	11.1	12.2	12.3
Service workers	9.3	9.0	8.6	8.4	7.9	8.1	9.0	8.2	7.7	8.4	7.8	8.3	7.8
Farm workers	5.1	6.1	4.8	6.7	5.4	4.8	4.4	4.8	3.8	3.7	4.7	4.3	4.1
INDUSTRY													
Nonagricultural private wage and salary workers ³	8.2	7.9	7.4	7.6	7.4	7.0	7.1	6.9	6.8	7.0	6.9	7.1	6.9
Construction	15.4	14.1	14.9	15.2	14.2	12.0	13.0	12.6	12.1	11.5	10.4	12.2	11.3
Manufacturing	8.2	8.2	6.9	7.1	6.6	6.7	6.2	6.3	6.7	7.0	7.2	7.0	6.8
Durable goods	7.7	8.0	6.5	7.0	6.6	6.0	5.7	5.6	6.1	6.5	6.6	6.3	6.3
Nondurable goods	8.9	8.6	7.4	7.3	7.3	7.7	7.0	7.3	7.6	7.7	8.2	8.1	7.5
Transportation and public utilities	5.7	5.2	4.7	4.6	5.1	4.4	4.3	4.1	4.7	4.9	5.0	5.0	4.7
Wholesale and retail trade	9.0	8.2	8.4	8.7	8.4	7.8	8.3	7.9	7.7	8.3	7.6	8.1	7.5
Finance and service industries	6.8	6.8	6.2	6.2	6.4	6.1	6.6	6.0	5.7	5.6	5.7	5.9	6.1
Government workers	4.3	4.4	4.3	4.5	4.0	4.0	4.1	4.2	3.9	4.4	4.0	4.1	4.4
Agricultural wage and salary workers	13.2	14.0	12.6	13.4	13.2	12.3	11.5	11.0	9.7	9.3	10.4	10.4	9.1

¹ Unemployment as a percent of 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	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Duration													
Less than 5 weeks	2,759	2,765	2,762	2,804	3,005	3,100	2,782	3,058	2,830	2,870	2,789	2,890	2,844
5 to 14 weeks	2,494	2,319	2,083	2,107	2,098	1,857	2,093	2,023	1,969	2,338	2,236	2,208	2,115
15 weeks and over	2,517	2,514	2,283	2,182	1,923	1,816	1,836	1,737	1,834	1,808	1,866	1,862	1,933
15 to 26 weeks	1,188	1,130	1,038	947	777	715	800	798	917	966	940	916	1,003
27 weeks and over	1,329	1,384	1,245	1,235	1,146	1,101	1,036	939	917	842	926	946	930
Average (mean) duration, in weeks	15.5	15.6	15.5	14.7	14.0	14.3	14.9	14.4	14.1	13.5	14.2	13.8	13.8
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	35.5	36.4	38.7	39.5	42.8	45.8	41.5	44.9	42.7	40.9	40.5	41.5	41.3
5 to 14 weeks	32.1	30.5	29.2	29.7	29.9	27.4	31.2	29.7	33.3	32.4	31.7	30.7	30.7
15 weeks and over	32.4	33.1	32.0	30.8	27.4	26.8	27.4	25.5	27.6	25.8	27.1	26.8	28.0
15 to 26 weeks	15.3	14.9	14.6	13.4	11.1	10.6	11.9	11.7	13.8	13.8	13.6	13.2	14.6
27 weeks and over	17.1	18.2	17.5	17.4	16.3	16.3	15.4	13.8	13.8	12.0	13.4	13.6	13.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-38. Rates of unemployment by sex and age, seasonally adjusted

Sex and age	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Total, 16 years and over	8.0	7.8	7.3	7.5	7.3	7.0	6.9	7.1	6.9	7.1	6.9	7.0	6.9
16 to 19 years	19.2	19.0	18.7	18.5	18.8	17.8	17.9	18.6	17.4	17.5	18.1	17.3	17.1
16 to 17 years	21.6	20.7	21.1	19.8	22.2	19.2	20.4	21.3	19.9	20.7	19.8	18.8	18.9
18 to 19 years	17.6	17.7	17.0	17.5	16.6	16.8	16.3	16.5	15.3	15.6	16.9	16.3	16.0
20 to 24 years	12.7	12.5	11.4	12.0	11.4	10.8	10.7	10.5	10.6	11.1	10.7	10.6	10.8
25 years and over	5.6	5.5	5.1	5.2	5.1	4.9	4.8	5.0	5.0	5.0	4.8	5.0	4.8
25 to 54 years	5.9	5.9	5.3	5.3	5.2	5.1	5.1	5.3	5.2	5.3	4.9	5.2	4.9
55 years and over	4.6	4.2	4.1	4.8	4.3	4.1	4.0	3.8	3.9	3.9	4.2	4.2	4.2
Males, 16 years and over	7.5	7.3	6.6	6.9	6.5	6.1	6.3	6.2	6.2	6.3	6.0	6.3	5.9
16 to 19 years	19.7	19.1	17.4	18.6	18.7	17.0	17.0	18.6	16.9	17.6	17.5	16.7	16.5
16 to 17 years	22.2	21.0	19.5	19.3	22.2	17.9	18.7	22.7	20.2	21.7	19.2	18.8	18.2
18 to 19 years	18.1	17.4	16.1	17.9	16.1	16.0	16.0	15.5	14.7	14.8	16.0	15.1	15.3
20 to 24 years	12.6	12.9	11.3	12.1	11.2	10.5	10.6	9.9	10.6	11.3	10.5	10.2	10.1
25 years and over	5.2	5.0	4.6	4.6	4.3	4.1	4.2	4.1	4.2	4.2	3.9	4.4	4.0
25 to 54 years	5.4	5.2	4.7	4.6	4.3	4.3	4.4	4.3	4.3	4.4	3.8	4.5	4.0
55 years and over	4.4	3.9	4.0	4.7	4.4	3.7	3.9	3.3	3.6	3.5	3.9	4.1	3.7
Females, 16 years and over	8.7	8.6	8.3	8.4	8.5	8.2	7.9	8.4	8.0	8.3	8.2	8.0	8.2
16 to 19 years	18.5	18.9	20.1	18.4	18.9	18.8	19.0	18.7	17.9	17.4	18.9	18.0	17.9
16 to 17 years	20.8	20.2	23.0	20.4	22.2	20.8	22.5	19.7	19.5	19.4	20.5	18.7	19.7
18 to 19 years	17.1	18.0	18.1	16.9	17.1	17.7	16.6	17.5	16.0	16.4	17.9	17.6	16.8
20 to 24 years	12.8	11.9	11.4	11.9	11.7	11.2	10.9	11.0	10.5	10.8	10.9	11.2	11.7
25 years and over	6.4	6.4	5.9	6.1	6.1	6.0	5.7	6.3	6.2	6.2	6.1	5.9	6.1
25 to 54 years	6.7	6.9	6.2	6.3	6.6	6.5	6.1	6.7	6.4	6.6	6.4	6.3	6.3
55 years and over	5.1	4.7	4.3	4.9	4.2	4.6	4.3	4.6	4.4	4.6	4.5	4.4	5.0

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

[Numbers in thousands]

Reason for unemployment	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
NUMBER OF UNEMPLOYED													
Job losers	3,802	3,736	3,207	3,396	3,143	2,953	3,038	2,927	3,075	3,289	3,144	3,139	3,088
On layoff	1,067	1,057	791	1,001	865	754	749	827	919	1,018	928	947	812
Other job losers	2,735	2,679	2,416	2,395	2,278	2,199	2,289	2,100	2,156	2,271	2,216	2,192	2,276
Job leavers	858	831	932	852	919	846	944	954	841	910	873	886	872
Reentrants	2,061	1,957	1,991	1,963	2,013	2,001	1,993	1,889	1,822	1,857	1,856	1,915	1,937
New entrants	920	942	905	936	1,003	972	893	1,077	974	1,000	935	840	907
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	49.8	50.0	45.6	47.5	44.4	43.6	44.2	42.7	45.8	46.6	46.2	46.3	45.4
On layoff	14.0	14.2	11.2	14.0	12.2	11.1	10.9	12.1	13.7	14.4	13.6	14.0	11.9
Other job losers	35.8	35.9	34.3	33.5	32.2	32.5	33.2	30.7	32.1	32.2	32.5	32.3	33.5
Job leavers	11.2	11.1	13.2	11.9	13.0	12.5	13.7	13.9	12.5	12.9	12.8	13.1	12.8
Reentrants	27.0	26.2	28.3	27.5	28.4	29.5	29.0	27.6	27.1	26.3	27.3	28.2	28.5
New entrants	12.0	12.6	12.9	13.1	14.2	14.4	13.0	15.7	14.5	14.2	13.7	12.4	13.3
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	4.0	3.9	3.4	3.5	3.3	3.1	3.1	3.0	3.2	3.4	3.2	3.2	3.1
Job leavers .....	.9	.9	1.0	.9	1.0	.9	1.0	1.0	.9	.9	.9	.9	.9
Reentrants	2.1	2.0	2.1	2.0	2.1	2.1	2.1	1.9	1.9	1.9	1.9	2.0	2.0
New entrants	1.0	1.0	.9	1.0	1.0	1.0	.9	1.1	1.0	1.0	1.0	.9	.9

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-40. Employed persons by sex and age, seasonally adjusted

[In thousands]

Sex and age	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Total, 16 years and over	88,220	88,441	88,558	88,962	89,475	90,023	90,408	90,679	90,561	90,771	91,095	91,230	92,180
16 to 19 years	7,239	7,242	7,266	7,394	7,458	7,573	7,589	7,704	7,555	7,745	7,539	7,713	7,838
16 to 17 years	2,882	2,914	2,906	3,017	2,972	3,092	3,044	3,056	3,029	3,111	3,134	3,163	3,237
18 to 19 years	4,356	4,332	4,396	4,402	4,461	4,527	4,499	4,605	4,507	4,616	4,451	4,550	4,598
20 to 24 years	12,378	12,459	12,598	12,634	12,706	12,710	12,758	12,986	12,901	12,887	13,008	12,960	12,972
25 years and over	68,533	68,762	68,759	68,980	69,336	69,744	70,082	70,014	70,033	70,032	70,582	70,614	71,271
25 to 54 years	54,873	55,059	55,239	55,511	55,787	56,010	56,233	56,356	56,456	56,496	56,828	56,704	57,195
55 years and over	13,644	13,702	13,564	13,538	13,530	13,698	13,780	13,671	13,602	13,586	13,757	13,927	14,061
Males, 16 years and over	52,643	52,799	52,918	53,046	53,270	53,575	53,722	53,987	53,900	53,958	53,966	54,266	54,715
16 to 19 years	3,870	3,940	3,957	3,955	4,003	4,110	4,191	4,128	4,106	4,104	4,082	4,223	4,294
16 to 17 years	1,577	1,622	1,588	1,617	1,613	1,714	1,734	1,640	1,674	1,702	1,729	1,771	1,835
18 to 19 years	2,289	2,316	2,381	2,358	2,384	2,433	2,481	2,451	2,420	2,392	2,391	2,449	2,464
20 to 24 years	6,832	6,879	6,975	6,951	6,988	6,958	6,929	7,069	7,036	7,034	7,041	7,119	7,093
25 years and over	41,931	42,016	41,993	42,160	42,298	42,500	42,639	42,809	42,687	42,708	42,881	42,976	43,315
25 to 54 years	33,529	33,529	33,594	33,799	33,908	34,029	34,070	34,190	34,123	34,175	34,358	34,360	34,590
55 years and over	8,460	8,500	8,449	8,384	8,395	8,461	8,543	8,592	8,558	8,524	8,502	8,651	8,728
Females, 16 years and over	35,577	35,642	35,640	35,916	36,205	36,448	36,686	36,692	36,661	36,813	37,129	36,964	37,465
16 to 19 years	3,369	3,302	3,309	3,439	3,455	3,463	3,398	3,576	3,449	3,641	3,457	3,490	3,544
16 to 17 years	1,305	1,292	1,318	1,400	1,359	1,378	1,310	1,416	1,355	1,409	1,405	1,392	1,402
18 to 19 years	2,067	2,016	2,015	2,044	2,077	2,094	2,081	2,154	2,087	2,224	2,060	2,101	2,134
20 to 24 years	5,546	5,580	5,623	5,683	5,718	5,752	5,829	5,917	5,865	5,853	5,967	5,841	5,879
25 years and over	26,602	26,746	26,766	26,820	27,038	27,244	27,443	27,205	27,346	27,324	27,701	27,638	27,956
25 to 54 years	21,395	21,530	21,645	21,712	21,879	21,981	22,163	22,166	22,333	22,321	22,470	22,344	22,605
55 years and over	5,184	5,202	5,115	5,154	5,135	5,237	5,237	5,079	5,044	5,062	5,255	5,276	5,333

A-41. Unemployed persons by sex and age, seasonally adjusted

[In thousands]

Sex and age	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Total, 16 years and over	7,651	7,519	6,958	7,183	7,064	6,737	6,750	6,962	6,744	6,926	6,773	6,872	6,818
16 to 19 years	1,718	1,702	1,668	1,677	1,725	1,643	1,653	1,765	1,589	1,641	1,671	1,614	1,622
16 to 17 years	792	760	777	746	847	736	779	829	752	811	773	732	752
18 to 19 years	930	930	901	931	886	916	873	907	815	851	905	886	875
20 to 24 years	1,802	1,779	1,617	1,722	1,638	1,545	1,533	1,516	1,522	1,609	1,559	1,541	1,577
25 years and over	4,102	4,027	3,681	3,766	3,689	3,580	3,565	3,667	3,679	3,662	3,561	3,731	3,594
25 to 54 years	3,438	3,449	3,090	3,088	3,086	3,039	3,006	3,137	3,076	3,147	2,919	3,123	2,969
55 years and over	664	608	583	679	608	579	580	533	552	550	599	617	619
Males, 16 years and over	4,244	4,152	3,714	3,904	3,712	3,466	3,609	3,580	3,538	3,609	3,439	3,647	3,459
16 to 19 years	951	933	833	903	918	842	858	942	838	875	866	846	847
16 to 17 years	449	432	384	387	459	374	399	481	424	472	410	411	407
18 to 19 years	505	487	457	515	459	465	459	449	417	414	456	437	444
20 to 24 years	987	1,022	892	958	879	819	823	781	833	899	828	807	801
25 years and over	2,281	2,194	2,002	2,034	1,919	1,835	1,892	1,843	1,874	1,856	1,759	1,995	1,792
25 to 54 years	1,902	1,853	1,656	1,616	1,534	1,517	1,563	1,548	1,551	1,566	1,370	1,627	1,453
55 years and over	387	349	354	414	385	328	343	289	319	307	349	373	339
Females, 16 years and over	3,407	3,367	3,244	3,279	3,352	3,271	3,141	3,382	3,206	3,317	3,334	3,225	3,359
16 to 19 years	767	769	835	774	807	801	795	823	751	766	805	768	775
16 to 17 years	343	328	393	359	388	362	380	348	328	339	363	321	345
18 to 19 years	425	443	444	416	427	451	414	458	398	437	449	449	431
20 to 24 years	815	757	725	764	759	726	710	735	689	710	731	734	776
25 years and over	1,821	1,833	1,679	1,732	1,770	1,745	1,673	1,824	1,805	1,806	1,802	1,736	1,802
25 to 54 years	1,536	1,596	1,434	1,472	1,552	1,522	1,443	1,589	1,525	1,581	1,549	1,496	1,516
55 years and over	277	259	229	265	223	251	237	244	233	243	250	244	280

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(In thousands)

Selected categories	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
CHARACTERISTICS													
Total, 16 years and over	88,220	88,441	88,588	88,962	89,475	90,023	90,408	90,679	90,561	90,771	91,095	91,230	92,180
Married men, spouse present	37,895	37,998	38,195	38,159	38,294	38,536	38,509	38,582	38,434	38,316	38,358	38,386	38,485
Married women, spouse present	20,482	20,498	20,511	20,756	20,963	21,076	20,962	20,831	20,846	20,814	21,232	21,097	21,265
OCCUPATION													
White-collar workers	44,297	44,648	44,521	44,451	44,495	44,851	44,766	44,798	45,105	45,114	45,437	46,147	46,232
Professional and technical Managers and administrators, except farm	13,597	13,544	13,444	13,408	13,439	13,591	13,483	13,638	13,863	13,720	13,777	14,054	13,918
Sales workers	9,491	9,564	9,613	9,502	9,543	9,434	9,400	9,570	9,583	9,688	9,777	9,951	9,916
Clerical workers	5,597	5,815	5,633	5,815	5,617	5,765	5,695	5,673	5,716	5,722	5,748	5,687	5,780
Blue-collar workers	15,612	15,725	15,831	15,726	15,896	16,061	16,188	15,917	15,943	15,984	16,135	16,455	16,618
Craft and kindred workers	29,001	29,150	29,634	29,917	30,025	30,193	30,423	30,432	30,063	30,231	30,282	30,084	30,370
Operatives, except transport Transport equipment operatives	11,353	11,302	11,626	11,668	11,709	11,896	11,894	11,891	11,887	11,931	11,974	11,827	12,040
Nonfarm laborers	9,970	10,231	10,341	10,341	10,574	10,394	10,530	10,378	10,270	10,242	10,211	10,204	10,352
Service workers	3,258	3,283	3,358	3,448	3,487	3,482	3,552	3,551	3,397	3,462	3,541	3,430	3,493
Farm workers	4,420	4,334	4,309	4,450	4,255	4,421	4,447	4,612	4,509	4,596	4,556	4,623	4,485
Service workers	12,026	11,880	11,874	12,017	12,272	12,254	12,372	12,697	12,460	12,591	12,604	12,420	12,592
Farm workers	2,743	2,791	2,624	2,663	2,652	2,779	2,904	2,838	2,743	2,778	2,676	2,783	2,795
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,285	1,380	1,246	1,280	1,282	1,310	1,325	1,381	1,271	1,331	1,350	1,402	1,401
Self-employed workers	1,627	1,530	1,490	1,511	1,513	1,548	1,655	1,595	1,561	1,604	1,566	1,584	1,607
Unpaid family workers	342	340	354	338	319	366	393	378	363	315	275	303	361
Nonagricultural industries:													
Wage and salary workers	78,766	78,957	79,205	79,520	79,869	80,306	80,429	80,814	80,738	80,951	81,341	81,651	82,269
Government	15,045	14,967	15,013	14,913	14,923	14,960	15,075	14,961	15,131	15,282	15,296	15,494	15,422
Private industries	63,721	63,990	64,192	64,607	64,946	65,346	65,354	65,853	65,607	65,669	66,045	66,157	66,847
Private households	1,448	1,384	1,391	1,317	1,313	1,320	1,305	1,388	1,445	1,401	1,409	1,352	1,415
Other industries	62,273	62,606	62,801	63,290	63,633	64,026	64,049	64,465	64,162	64,268	64,636	64,805	65,432
Self-employed workers	5,771	5,798	5,853	5,854	5,919	5,954	6,050	5,997	5,896	6,151	6,072	6,039	6,074
Unpaid family workers	449	460	419	516	536	499	550	518	523	469	504	448	471
PERSONS AT WORK¹													
Nonagricultural industries	79,940	80,369	79,832	80,837	81,330	81,005	81,771	81,618	82,572	82,613	82,799	82,626	83,378
Full-time schedules	65,385	65,846	65,700	66,144	66,659	66,436	67,219	67,126	67,867	67,755	67,706	67,646	68,212
Part-time for economic reasons	3,545	3,454	3,320	3,438	3,276	3,174	3,290	3,368	3,371	3,199	3,315	3,298	3,366
Usually work full time	1,289	1,234	1,112	1,335	1,212	1,167	1,314	1,341	1,440	1,196	1,246	1,251	1,266
Usually work part time	2,256	2,220	2,208	2,103	2,064	2,007	1,976	2,027	1,931	2,003	2,069	2,047	2,100
Part time for noneconomic reasons	11,010	11,069	10,812	11,255	11,395	11,395	11,262	11,124	11,334	11,659	11,778	11,682	11,800

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

A-43. Employment status of male Vietnam-Era veterans and nonveterans 20 to 39 years of age

[Numbers in thousands]

Employment status	Not seasonally adjusted			Seasonally adjusted					
	Nov. 1976	Oct. 1977	Nov. 1977	Nov. 1976	July 1977	Aug. 1977	Sept. 1977	Oct. 1977	Nov. 1977
VETERANS¹									
Total, 20 to 34 years:									
Civilian noninstitutional population ²	6,797	6,819	6,821	6,797	6,817	6,813	6,815	6,819	6,821
Civilian labor force	6,410	6,511	6,467	6,436	6,517	6,543	6,527	6,527	6,480
Employed	5,942	6,126	6,065	5,891	6,000	6,032	6,025	6,036	6,014
Unemployed	468	385	402	545	517	511	502	491	466
Unemployment rate	7.3	5.9	6.2	8.5	7.9	7.8	7.7	7.5	7.2
20 to 24 years:									
Civilian noninstitutional population ²	1,083	1,033	1,028	1,083	1,050	1,040	1,036	1,033	1,028
Civilian labor force	952	917	916	965	942	947	936	925	926
Employed	810	796	797	803	788	782	748	777	790
Unemployed	142	121	119	162	154	165	188	148	136
Unemployment rate	14.9	13.2	13.0	16.8	16.3	17.4	20.1	16.0	14.7
25 to 29 years:									
Civilian noninstitutional population ²	3,186	2,927	2,894	3,186	3,028	2,994	2,960	2,927	2,894
Civilian labor force	3,008	2,794	2,720	3,021	2,895	2,872	2,836	2,807	2,724
Employed	2,791	2,650	2,566	2,760	2,688	2,690	2,663	2,613	2,538
Unemployed	217	144	154	261	207	182	173	194	186
Unemployment rate	7.2	5.2	5.7	8.6	7.2	6.3	6.1	6.9	6.8
30 to 34 years:									
Civilian noninstitutional population ²	2,528	2,859	2,899	2,528	2,739	2,779	2,819	2,859	2,899
Civilian labor force	2,450	2,800	2,831	2,450	2,680	2,724	2,755	2,795	2,830
Employed	2,341	2,680	2,702	2,328	2,524	2,560	2,614	2,646	2,686
Unemployed	109	120	129	122	156	164	141	149	144
Unemployment rate	4.4	4.3	4.6	5.0	5.8	6.0	5.1	5.3	5.1
35 to 39 years:									
Civilian noninstitutional population ²	521	714	739	521	638	663	688	714	739
Civilian labor force	504	695	719	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	482	674	695	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	22	21	24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	4.4	3.0	3.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NONVETERANS									
Total, 20 to 34 years:									
Civilian noninstitutional population ²	17,008	17,844	17,900	17,008	17,640	17,172	17,781	17,844	17,900
Civilian labor force	15,355	16,019	16,061	15,487	15,917	16,004	15,928	16,090	16,157
Employed	14,078	15,014	15,054	14,053	14,713	14,743	14,809	14,877	15,025
Unemployed	1,277	1,005	1,007	1,434	1,204	1,261	1,119	1,213	1,132
Unemployment rate	8.3	6.3	6.3	9.3	7.6	7.9	7.0	7.5	7.0
20 to 24 years:									
Civilian noninstitutional population ²	7,989	8,222	8,237	7,989	8,158	8,163	8,204	8,222	8,237
Civilian labor force	6,744	6,881	6,876	6,878	6,902	6,970	6,918	6,989	6,994
Employed	6,004	6,336	6,281	6,046	6,222	6,241	6,288	6,330	6,325
Unemployed	740	545	595	832	680	729	630	659	669
Unemployment rate	11.0	7.9	8.7	12.1	9.9	10.5	9.1	9.4	9.6
25 to 29 years:									
Civilian noninstitutional population ²	5,175	5,449	5,491	5,175	5,307	5,354	5,404	5,449	5,491
Civilian labor force	4,903	5,149	5,206	4,884	5,015	5,070	5,030	5,111	5,175
Employed	4,548	4,849	4,941	4,499	4,674	4,734	4,734	4,763	4,887
Unemployed	355	300	265	385	341	336	296	348	288
Unemployment rate	7.2	5.8	5.1	7.9	6.8	6.6	5.9	6.8	5.6
30 to 34 years:									
Civilian noninstitutional population ²	3,844	4,173	4,172	3,844	4,175	4,175	4,173	4,173	4,172
Civilian labor force	3,708	3,989	3,979	3,725	4,000	3,964	3,980	3,990	3,988
Employed	3,526	3,829	3,832	3,508	3,817	3,768	3,787	3,784	3,813
Unemployed	182	160	147	217	183	196	193	206	175
Unemployment rate	4.9	4.0	3.7	5.8	4.6	4.9	4.8	5.2	4.4
35 to 39 years:									
Civilian noninstitutional population ²	3,382	3,535	3,554	3,382	3,483	3,500	3,518	3,535	3,554
Civilian labor force	3,222	3,398	3,413	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	3,075	3,295	3,295	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	147	103	118	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	4.6	3.0	3.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

¹ Vietnam-Era veterans are those who served between August 5, 1964, and April 1975.

appear in the unadjusted and seasonally adjusted columns.

² Since seasonal variations are not present in the population figures, identical numbers

N.A. = not available.

ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

B-1. Employees on nonagricultural payrolls, by industry division 1919 to date

[In thousands]

Year and month	Total	Goods-producing				Service-producing									
		Total	Mining	Contract 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
1919.....	27,088	12,813	1,133	1,021	10,659	14,275	3,711	4,514	-	-	1,111	2,263	2,676	-	-
1920.....	27,350	12,745	1,239	848	10,658	14,605	3,998	4,467	-	-	1,175	2,362	2,603	-	-
1925.....	28,778	12,474	1,089	1,446	9,939	16,304	3,826	5,576	-	-	1,233	2,869	2,800	-	-
1926.....	29,819	12,896	1,185	1,555	10,156	16,923	3,942	5,784	-	-	1,305	3,046	2,846	-	-
1927.....	29,976	12,723	1,114	1,608	10,001	17,253	3,895	5,908	-	-	1,367	3,168	2,915	-	-
1928.....	30,000	12,603	1,050	1,606	9,947	17,397	3,828	5,874	-	-	1,435	3,265	2,995	-	-
1929.....	31,339	13,286	1,087	1,497	10,702	18,053	3,916	6,123	-	-	1,509	3,440	3,065	533	2,532
1930.....	29,424	11,943	1,009	1,372	9,562	17,481	3,685	5,797	-	-	1,475	3,376	3,148	526	2,622
1931.....	26,649	10,257	873	1,214	8,170	16,392	3,254	5,284	-	-	1,407	3,183	3,264	560	2,704
1932.....	23,628	8,632	731	970	6,931	14,996	2,816	4,683	-	-	1,341	2,931	3,225	559	2,666
1933.....	23,711	8,950	744	809	7,397	14,761	2,672	4,755	-	-	1,295	2,873	3,166	565	2,601
1934.....	25,953	10,246	883	862	8,501	15,707	2,750	5,281	-	-	1,319	3,058	3,299	652	2,647
1935.....	27,053	10,878	897	912	9,069	16,175	2,786	5,431	-	-	1,335	3,142	3,481	753	2,728
1936.....	29,082	11,918	946	1,145	9,827	17,164	2,973	5,809	-	-	1,388	3,326	3,668	826	2,842
1937.....	31,026	12,921	1,015	1,112	10,794	18,105	3,134	6,265	-	-	1,432	3,518	3,756	833	2,923
1938.....	29,209	11,386	891	1,055	9,440	17,823	2,863	6,179	-	-	1,425	3,473	3,883	829	3,054
1939.....	30,618	12,282	854	1,150	10,278	18,336	2,936	6,426	1,684	4,742	1,462	3,517	3,995	905	3,090
1940.....	32,376	13,204	925	1,294	10,985	19,173	3,038	6,750	1,754	4,996	1,502	3,681	4,202	996	3,206
1941.....	36,554	15,939	957	1,790	13,192	20,614	3,274	7,210	1,873	5,338	1,549	3,921	4,660	1,340	3,320
1942.....	40,125	18,442	992	2,170	15,280	21,683	3,460	7,118	1,821	5,297	1,538	4,084	5,483	2,213	3,270
1943.....	42,452	20,094	925	1,567	17,602	22,359	3,647	6,982	1,741	5,241	1,502	4,148	6,080	2,905	3,174
1944.....	41,883	19,314	892	1,094	17,328	22,569	3,829	7,058	1,762	5,296	1,476	4,163	6,043	2,928	3,116
1945.....	40,394	17,492	836	1,132	15,524	22,902	3,906	7,314	1,862	5,452	1,497	4,241	5,944	2,808	3,137
1946.....	41,674	17,226	862	1,661	14,703	24,448	4,061	8,376	2,190	6,186	1,697	4,719	5,595	2,254	3,341
1947.....	43,881	18,482	955	1,982	15,545	25,399	4,166	8,955	2,361	6,595	1,754	5,050	5,474	1,892	3,582
1948.....	44,891	18,745	994	2,169	15,582	26,146	4,189	9,272	2,489	6,783	1,829	5,206	5,650	1,863	3,787
1949.....	43,778	17,536	930	2,165	14,441	26,242	4,001	9,264	2,487	6,778	1,857	5,264	5,856	1,908	3,948
1950.....	45,222	18,475	901	2,333	15,241	26,747	4,034	9,386	2,518	6,868	1,919	5,382	6,026	1,928	4,098
1951.....	47,849	19,925	929	2,603	16,393	27,924	4,226	9,742	2,606	7,136	1,991	5,576	6,389	2,302	4,087
1952.....	48,825	20,164	898	2,634	16,632	28,660	4,248	10,004	2,687	7,317	2,069	5,730	6,609	2,420	4,188
1953.....	50,232	21,038	866	2,623	17,549	29,195	4,290	10,247	2,727	7,520	2,146	5,867	6,645	2,305	4,340
1954.....	49,022	19,717	791	2,612	16,314	29,306	4,084	10,235	2,739	7,496	2,234	6,002	6,751	2,188	4,563
1955.....	50,675	20,476	792	2,802	16,882	30,199	4,141	10,535	2,796	7,740	2,335	6,274	6,914	2,187	4,727
1956.....	52,408	21,064	822	2,999	17,243	31,344	4,244	10,858	2,884	7,974	2,429	6,536	7,277	2,209	5,069
1957.....	52,894	20,925	828	2,923	17,174	31,969	4,241	10,886	2,893	7,992	2,477	6,749	7,616	2,217	5,399
1958.....	51,363	19,474	751	2,778	15,945	31,890	3,976	10,750	2,848	7,902	2,519	6,806	7,839	2,191	5,648
1959.....	53,313	20,367	732	2,960	16,675	32,945	4,011	11,127	2,946	8,182	2,594	7,130	8,083	2,233	5,850
1960.....	54,234	20,393	712	2,885	16,796	33,840	4,004	11,391	3,004	8,388	2,669	7,423	8,353	2,270	6,083
1961.....	54,042	19,814	672	2,816	16,326	34,229	3,903	11,337	2,993	8,344	2,731	7,664	8,594	2,279	6,315
1962.....	55,596	20,405	650	2,902	16,853	35,190	3,906	11,566	3,056	8,511	2,800	8,028	8,890	2,340	6,550
1963.....	56,702	20,593	635	2,963	16,995	36,108	3,903	11,778	3,104	8,675	2,877	8,325	9,225	2,358	6,868
1964.....	58,331	20,958	634	3,050	17,274	37,373	3,951	12,160	3,189	8,971	2,957	8,709	9,596	2,348	7,248
1965.....	60,815	21,880	632	3,186	18,062	38,936	4,036	12,716	3,312	9,404	3,023	9,087	10,074	2,378	7,696
1966.....	63,955	23,116	627	3,275	19,214	40,839	4,151	13,245	3,437	9,808	3,100	9,551	10,792	2,564	8,227
1967.....	65,857	23,268	613	3,208	19,447	42,589	4,261	13,606	3,525	10,081	3,225	10,099	11,398	2,719	8,679
1968.....	67,951	23,693	606	3,306	19,781	44,258	4,311	14,099	3,611	10,488	3,381	10,622	11,845	2,737	9,109
1969.....	70,442	24,311	619	3,525	20,167	46,130	4,435	14,704	3,733	10,971	3,562	11,228	12,202	2,758	9,444
1970.....	70,920	23,507	623	3,536	19,349	47,412	4,504	15,040	3,816	11,225	3,687	11,621	12,561	2,731	9,830
1971.....	71,222	22,820	609	3,639	18,572	48,401	4,457	15,352	3,823	11,529	3,802	11,903	12,887	2,696	10,192
1972.....	73,714	23,546	625	3,831	19,090	50,167	4,517	15,975	3,943	12,032	3,943	12,392	13,340	2,684	10,656
1973.....	76,896	24,727	644	4,015	20,068	52,169	4,644	16,674	4,107	12,568	4,091	13,021	13,739	2,663	11,075
1974.....	78,413	24,697	694	3,957	20,046	53,715	4,696	17,017	4,223	12,794	4,208	13,617	14,177	2,724	11,453
1975.....	77,051	22,603	745	3,512	18,347	54,448	4,498	17,000	4,177	12,824	4,223	14,006	14,720	2,748	11,973
1976.....	79,443	23,332	783	3,594	18,956	56,111	4,509	17,694	4,263	13,431	4,316	14,644	14,948	2,733	12,215
Nov.....	80,943	23,781	807	3,742	19,232	57,162	4,546	18,122	4,321	13,801	4,368	14,858	15,268	2,720	12,548
Dec.....	81,099	23,480	805	3,547	19,128	57,619	4,553	18,559	4,326	14,233	4,385	14,861	15,261	2,725	12,536
1977:															
Jan.....	79,473	23,005	806	3,198	19,001	56,468	4,499	17,791	4,297	13,494	4,379	14,740	15,059	2,697	12,362
Feb.....	79,734	23,063	807	3,251	19,005	56,671	4,494	17,653	4,291	13,362	4,391	14,887	15,246	2,705	12,541
Mar.....	80,547	23,461	827	3,451	19,183	57,086	4,522	17,799	4,310	13,489	4,422	15,028	15,315	2,714	12,601
Apr.....	81,332	23,846	838	3,681	19,327	57,486	4,538	18,026	4,332	13,694	4,450	15,182	15,290	2,716	12,574
May.....	82,029	24,167	844	3,853	19,470	57,862	4,577	18,176	4,353	13,823	4,476	15,288	15,345	2,728	12,617
June.....	82,930	24,679	870	4,047	19,762	58,251	4,629	18,342	4,409	13,933	4,534	15,458	15,288	2,765	12,523
July.....	82,167	24,551	848	4,148	19,555	57,616	4,604	18,306	4,420	13,886	4,565	15,541	14,600	2,773	11,827
Aug.....	82,397	24,800	833	4,204	19,763	57,597	4,604	18,352	4,429	13,923	4,578	15,587	14,476	2,757	11,719
Sept.....	83,146	24,960	862	4,157	19,941	58,186	4,653	18,463	4,428	14,035	4,554	15,513	15,003	2,717	12,286
Oct.....	83,678	24,912	863	4,175	19,874	58,766	4,635	18,530	4,452	14,078	4,566	15,578	15,457	2,714	12,743
Nov.....	84,065	24,846	865	4,099	19,882	59,219	4,635	18,749	4,465	14,284	4,578	15,606	15,651	2,720	12,931

p = preliminary.

NOTE: Data include Alaska and Hawaii beginning 1959. This inclusion has resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark month.

**ESTABLISHMENT DATA
EMPLOYMENT**

B-2. Employees on nonagricultural payrolls, by industry

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977	Nov. 1977	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977	Nov. 1977
-	TOTAL	80,572	80,943	83,146	83,678	84,065	-	-	-	-	-
	PRIVATE SECTOR	65,468	65,675	68,143	68,221	68,414	53,930	54,090	55,926	56,002	56,166
-	MINING	804	807	862	863	865	609	614	648	649	650
10	METAL MINING	95.6	95.3	79.5	81.3	-	74.0	74.0	57.1	59.3	-
101	Iron ores	26.1	25.5	10.5	10.5	-	21.1	20.6	5.4	5.5	-
102	Copper ores	36.8	36.9	33.6	35.7	-	28.3	28.5	25.6	27.7	-
11,12	COAL MINING	220.6	222.4	241.3	239.6	-	187.2	190.0	200.9	199.2	-
12	Bituminous coal and lignite mining	216.8	218.5	237.1	235.5	-	183.9	186.6	197.3	195.6	-
13	OIL AND GAS EXTRACTION	370.0	373.0	416.4	418.3	-	253.8	257.6	290.9	291.7	-
131,2	Crude petroleum and natural gas fields	166.0	166.5	177.8	177.9	-	81.7	82.6	88.8	88.5	-
138	Oil and gas field services	204.0	206.5	238.6	240.4	-	172.1	175.0	202.1	203.2	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	117.9	116.7	124.3	123.5	-	93.7	92.6	99.1	98.3	-
142	Crushed and broken stone	41.7	41.2	43.7	43.7	-	34.4	34.1	36.4	36.5	-
144	Sand and gravel	37.0	36.4	39.1	38.8	-	-	-	-	-	-
	CONTRACT CONSTRUCTION	3,815	3,742	4,157	4,175	4,099	3,077	3,003	3,352	3,371	3,294
15	GENERAL BUILDING CONTRACTORS	1,136.5	1,125.3	1,225.1	1,231.1	-	901.5	890.4	973.9	977.8	-
16	HEAVY CONSTRUCTION CONTRACTORS	791.5	753.4	882.9	880.1	-	661.8	622.8	735.9	737.7	-
161	Highway and street construction	346.1	323.2	409.6	407.3	-	301.3	277.7	350.8	348.2	-
162	Heavy construction, nec	445.4	430.2	473.3	472.8	-	360.5	345.1	385.1	389.5	-
17	SPECIAL TRADE CONTRACTORS	1,887.1	1,863.7	2,049.3	2,063.3	-	1,513.4	1,489.5	1,642.1	1,655.2	-
171	Plumbing, heating, air conditioning	436.2	437.4	474.8	477.0	-	332.5	333.4	362.1	363.3	-
172	Painting, paper hanging, decorating	143.4	138.6	161.4	161.9	-	123.0	117.7	135.4	136.6	-
173	Electrical work	330.6	327.7	346.0	345.7	-	260.2	257.4	273.0	271.7	-
174	Masonry, stonework, and plastering	206.6	202.6	236.7	239.5	-	180.9	177.0	205.8	208.6	-
176	Roofing and sheet metal work	139.8	138.1	150.1	155.2	-	115.4	113.9	121.9	126.6	-
	MANUFACTURING	19,185	19,232	19,941	19,874	19,882	13,807	13,839	14,401	14,349	14,354
19,24,25, 32-39	DURABLE GOODS	11,131	11,218	11,687	11,686	11,741	7,941	8,021	8,396	8,406	8,458
20-23, 26-31	NONDURABLE GOODS	8,054	8,014	8,254	8,188	8,141	5,866	5,818	6,005	5,943	5,896
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	156.0	156.3	156.2	150.3	150.7	70.0	70.2	70.8	67.0	67.2
192	Ammunition, except for small arms	101.9	102.3	100.0	94.3	94.3	35.9	36.2	35.6	31.4	31.3
1925	Complete guided missiles	84.1	84.5	81.4	75.6	-	22.9	23.2	22.2	17.9	-
1929	Ammunition, exc. for small arms, nec	17.8	17.8	18.6	18.7	-	13.0	13.0	13.4	13.5	-
24	LUMBER AND WOOD PRODUCTS	622.5	617.0	663.4	661.1	658.8	524.2	519.3	567.0	564.3	562.1
241	Logging camps and logging contractors	78.8	76.3	77.5	76.4	75.0	-	-	-	-	-
242	Sawmills and planing mills	214.0	211.6	220.8	218.5	218.0	190.6	188.1	197.1	194.9	194.6
2421	Sawmills and planing mills, general	182.0	179.8	187.1	185.0	-	162.1	159.8	167.2	165.1	-
243	Millwork, plywood and related products	210.1	210.0	238.4	239.3	238.9	174.3	173.9	199.3	199.7	199.0
2431	Millwork	94.5	94.3	108.6	109.3	-	77.6	77.0	89.9	90.2	-
2432	Veneer and plywood	75.9	75.8	79.1	79.2	-	67.7	67.6	70.1	70.2	-
244	Wooden containers	21.4	21.5	21.5	21.3	21.1	18.8	19.0	19.0	18.7	18.7
2441,2	Wooden boxes, shooks, and crates	17.2	17.3	17.3	17.0	-	15.2	15.3	15.4	15.1	-
249	Miscellaneous wood products	98.2	97.6	105.2	105.6	105.8	79.0	78.8	87.8	88.5	88.6

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹					
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P	
	DURABLE GOODS—Continued											
25	FURNITURE AND FIXTURES	498.4	498.1	519.4	524.6	525.5	410.8	410.4	426.9	432.1	433.0	
251	Household furniture	361.7	360.9	375.7	379.6	380.5	307.3	306.5	317.2	321.3	321.9	
2511	Wood household furniture	187.3	186.2	194.3	195.6	—	164.6	163.6	169.8	171.0	—	
2512	Upholstered household furniture	104.7	105.3	108.9	110.8	—	87.0	87.5	89.9	91.6	—	
2515	Mattresses and bedsprings	33.9	33.3	34.3	34.2	—	26.2	25.7	26.6	26.7	—	
252	Office furniture	39.8	40.5	42.6	42.8	—	32.2	32.9	34.6	34.8	—	
254	Partitions and fixtures	53.2	52.6	56.0	56.3	—	39.9	39.2	42.1	42.2	—	
253,9	Other furniture and fixtures	43.7	44.1	45.1	45.9	46.1	31.4	31.8	33.0	33.8	34.0	
32	STONE, CLAY, AND GLASS PRODUCTS ...	641.8	640.9	672.9	671.0	673.3	512.3	511.4	538.3	535.6	538.6	
321	Flat glass	16.5	16.7	16.8	17.0	—	13.3	13.5	13.7	13.9	—	
322	Glass and glassware, pressed or blown	135.1	134.6	138.0	135.5	(*)	116.8	116.3	119.3	117.0	(*)	
3221	Glass containers	78.7	78.7	79.5	77.1	—	69.5	69.5	70.8	68.4	—	
3229	Pressed and blown glass, nec	56.4	55.9	58.5	58.4	—	47.3	46.8	48.5	48.6	—	
324	Cement, hydraulic	29.8	29.9	30.1	30.1	30.2	23.6	23.7	24.0	24.0	24.1	
325	Structural clay products	47.7	48.6	52.2	52.2	51.9	37.8	38.8	42.3	42.1	41.8	
3251	Brick and structural clay tile	22.0	21.5	23.8	23.9	—	18.2	17.7	20.0	20.0	—	
326	Pottery and related products	44.0	44.2	42.2	42.1	—	37.5	37.6	35.7	35.6	—	
327	Concrete, gypsum, and plaster products	196.6	194.6	212.2	212.1	211.7	153.4	151.1	166.4	166.4	165.9	
328,9	Other stone and nonmetallic mineral products	134.4	134.3	140.1	140.6	139.9	101.1	101.6	106.4	106.5	106.3	
3291	Abrasive products	24.5	24.6	24.8	24.7	—	17.4	17.5	17.6	17.4	—	
33	PRIMARY METAL INDUSTRIES	1,192.6	1,182.8	1,215.8	1,204.8	1,205.1	934.1	924.6	951.8	944.7	944.2	
331	Blast furnace and basic steel products	541.7	532.2	545.9	535.6	(*)	421.5	412.5	425.0	417.9	(*)	
3312	Blast furnaces and steel mills	468.2	459.7	472.9	463.8	—	366.0	358.0	369.5	363.2	—	
332	Iron and steel foundries	215.0	215.9	225.7	224.8	224.7	176.0	176.9	185.9	184.7	184.0	
3321	Gray iron foundries	137.6	138.7	145.7	145.2	—	114.4	115.5	121.5	121.0	—	
3322	Malleable iron foundries	19.8	20.1	21.2	21.0	—	15.8	16.2	17.4	17.3	—	
3323	Steel foundries	57.6	57.1	58.8	58.6	—	45.8	45.2	47.0	46.4	—	
333,4	Nonferrous metals	85.5	85.6	86.8	86.9	86.5	65.3	65.5	66.0	66.6	65.9	
3334	Primary aluminum	34.3	34.6	35.9	35.0	—	27.8	28.0	29.0	28.1	—	
335	Nonferrous rolling and drawing	197.2	195.8	199.4	196.6	198.5	146.8	145.4	146.3	144.4	145.5	
3351	Copper rolling and drawing	36.3	35.9	37.2	34.3	—	27.8	27.0	28.8	26.4	—	
3352	Aluminum rolling and drawing	62.7	62.3	64.1	64.1	—	45.5	45.3	46.0	46.1	—	
3357	Nonferrous wire drawing and insulating ..	78.5	78.0	77.7	77.9	—	59.1	58.9	57.6	58.0	—	
336	Nonferrous foundries	80.3	80.7	82.7	84.9	85.4	66.6	66.8	68.4	70.4	71.1	
3361	Aluminum castings	43.9	44.5	45.1	46.8	—	36.8	37.4	37.7	39.2	—	
3362,9	Other nonferrous castings	36.4	36.2	37.6	38.1	—	29.8	29.4	30.7	31.2	—	
339	Miscellaneous primary metal products	72.9	72.6	75.3	76.0	77.1	57.9	57.5	60.2	60.7	61.7	
3391	Iron and steel forgings	47.0	46.8	47.7	48.2	—	37.5	37.3	38.4	38.7	—	
34	FABRICATED METAL PRODUCTS	1,406.5	1,411.4	1,481.2	1,491.4	1,499.8	1,062.0	1,065.9	1,125.5	1,134.3	1,142.4	
341	Metal cans	60.4	60.3	62.6	61.0	61.4	51.9	51.7	53.1	51.7	52.0	
342	Cutlery, hand tools, and hardware	172.0	172.8	179.8	182.6	185.0	133.5	134.0	140.9	143.4	145.8	
3421,3,5	Cutlery and hand tools, including saws ..	71.8	71.6	71.8	72.9	—	54.8	54.5	55.6	56.6	—	
3429	Hardware, nec	100.2	101.2	108.0	109.7	—	78.7	79.5	85.3	86.8	—	
343	Plumbing and heating, except electric	70.9	71.4	76.0	76.8	77.2	52.6	52.9	56.3	57.3	57.7	
3431,2	Sanitary ware and plumbers' brass goods ..	31.7	31.9	33.9	33.8	—	24.2	24.3	26.0	26.2	—	
3433	Heating equipment, except electric	39.2	39.5	42.1	43.0	—	28.4	28.6	30.3	31.1	—	
344	Fabricated structural metal products	455.7	455.6	484.5	485.5	485.3	316.6	316.6	342.8	342.4	342.7	
3441	Fabricated structural steel	98.3	98.4	98.9	99.7	—	69.4	69.3	71.0	71.1	—	
3442	Metal doors, sash, and trim	73.0	73.1	84.3	84.7	—	54.1	54.2	64.4	64.8	—	
3443	Fabricated plate work (boiler shops)	138.0	137.8	139.2	138.6	—	89.2	89.1	90.5	89.4	—	
3444	Sheet metal work	87.8	88.3	97.7	98.4	—	63.6	64.0	72.0	72.4	—	
3446,9	Architectural and miscellaneous metal work	58.6	58.0	64.4	64.1	—	40.3	40.0	44.9	44.7	—	
345	Screw machine products, bolts, etc	100.8	101.2	106.4	107.7	109.4	78.6	78.8	83.6	85.0	86.1	
3451	Screw machine products	47.8	47.9	51.5	52.6	—	39.4	39.4	42.5	43.5	—	
3452	Bolts, nuts, rivets, and washers	53.0	53.3	54.9	55.1	—	39.2	39.4	41.1	41.5	—	
346	Metal stampings	227.6	230.1	238.9	241.9	244.0	184.7	187.3	195.0	198.1	200.7	
347	Metal services, nec	93.5	92.7	96.5	97.9	99.1	76.7	76.0	79.4	80.5	81.4	
348	Miscellaneous fabricated wire products	59.5	59.2	61.0	61.5	61.9	46.8	46.6	47.7	48.3	48.7	
349	Miscellaneous fabricated metal products	166.1	168.1	175.5	176.5	176.5	120.6	122.0	126.7	127.6	127.3	
3494,8	Valves, pipe, and pipe fittings	108.4	110.1	115.5	116.4	—	74.3	75.8	79.1	79.9	—	

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P
DURABLE GOODS—Continued											
35	MACHINERY, EXCEPT ELECTRICAL	2,072.2	2,110.6	2,217.4	2,223.9	2,249.2	1,325.5	1,363.4	1,445.7	1,450.1	1,471.0
351	Engines and turbines	114.3	113.7	116.9	118.4	119.6	74.5	73.5	74.8	76.0	76.9
3511	Steam engines and turbines	42.8	43.0	42.5	42.6	—	22.9	22.9	22.3	22.3	—
3519	Internal combustion engines, nec.	71.5	70.7	74.4	75.8	—	51.6	50.6	52.5	53.7	—
352	Farm machinery	121.2	147.0	146.7	145.9	—	76.2	103.0	101.4	100.1	—
353	Construction and related machinery ..	333.0	335.5	357.2	356.7	361.0	211.3	214.6	235.8	234.7	238.2
3531.2	Construction and mining machinery ..	172.1	173.2	185.4	182.4	—	107.8	109.5	122.5	119.7	—
3533	Oil field machinery	69.7	69.9	73.4	74.6	—	48.8	49.2	51.6	52.2	—
3535.6	Conveyors, hoists, cranes, monorails ..	48.5	49.0	51.1	51.4	—	28.7	29.4	31.0	31.3	—
3537	Industrial trucks and tractors	30.9	31.6	35.1	36.0	—	20.0	20.6	23.8	24.6	—
354	Metal working machinery	314.2	317.8	333.6	333.2	337.2	229.7	232.7	245.7	245.2	249.4
3541	Machine tools, metal cutting types ..	61.1	61.8	64.2	63.4	—	39.7	40.3	41.8	41.8	—
3544	Special dies, tools, jigs, and fixtures ..	123.6	126.0	134.5	135.1	—	99.2	101.4	108.7	109.0	—
3545	Machine tool accessories	55.8	55.8	58.5	59.1	—	40.1	39.8	41.7	42.0	—
3542.8	Miscellaneous metal working machinery ..	73.7	74.2	76.4	75.6	—	50.7	51.2	53.5	52.4	—
355	Special industry machinery	176.9	178.2	180.5	180.3	181.9	112.7	113.4	115.1	115.0	116.4
3551	Food products machinery	40.8	41.5	42.8	42.7	—	26.2	26.7	27.5	27.3	—
3552	Textile machinery	31.1	31.2	30.5	30.3	—	22.4	22.4	22.2	21.8	—
3555	Printing trades machinery	25.2	25.5	27.5	27.3	—	14.5	14.7	16.4	16.5	—
356	General industrial machinery	289.4	290.9	301.3	302.1	305.0	188.3	189.9	197.5	198.3	200.7
3561	Pumps and compressors	82.9	83.2	86.9	86.9	—	49.5	49.8	52.5	52.6	—
3562	Ball and roller bearings	54.1	54.9	58.0	58.0	—	41.5	42.2	43.1	43.3	—
3564	Blowers and fans	35.1	35.2	35.4	35.5	—	22.4	22.1	22.9	23.0	—
3566	Power transmission equipment	45.4	45.6	48.4	48.5	—	31.5	31.7	34.4	34.4	—
357	Office and computing machines	300.7	303.5	329.1	331.6	334.7	120.7	122.9	138.3	140.0	141.3
3573	Electronic computing equipment	226.9	229.0	255.2	258.3	—	77.4	79.4	96.1	97.9	—
358	Service industry machines	166.2	165.9	174.4	175.3	(*)	116.2	115.4	123.2	124.2	(*)
3585	Refrigeration machinery	115.6	115.7	121.0	121.8	—	82.7	82.6	86.8	87.5	—
359	Miscellaneous machinery, except electrical ..	256.3	258.1	277.7	280.4	283.3	195.9	198.0	213.9	216.6	219.6
36	ELECTRICAL EQUIPMENT AND SUPPLIES ..	1,868.9	1,878.6	1,969.7	1,981.2	1,993.9	1,242.3	1,248.9	1,312.4	1,321.2	1,336.6
361	Electric test and distributing equipment ..	194.4	195.2	208.6	210.2	211.5	130.3	131.2	141.2	142.7	143.6
3611	Electric measuring instruments	71.9	72.1	79.6	80.0	—	43.4	43.5	47.8	48.3	—
3612	Transformers	46.1	46.9	50.8	51.2	—	32.6	33.4	37.3	37.5	—
3613	Switchgear and switchboard apparatus ..	76.4	76.2	78.2	79.0	—	54.3	54.3	56.1	56.9	—
362	Electrical industrial apparatus	216.3	216.9	226.0	226.6	228.6	154.3	154.6	161.1	161.6	163.7
3621	Motors and generators	106.1	106.2	110.3	110.3	—	79.1	79.1	83.4	83.5	—
3622	Industrial controls	68.5	68.8	72.4	72.9	—	45.4	45.6	46.9	47.3	—
363	Household appliances	164.0	167.2	182.7	183.0	186.5	127.9	129.7	143.9	144.4	147.4
3632	Household refrigerators and freezers ..	30.3	33.4	37.4	36.7	—	22.6	24.6	29.0	28.4	—
3633	Household laundry equipment	24.6	24.4	26.6	25.6	—	19.6	19.4	20.8	19.7	—
3634	Electric housewares and fans	51.5	51.6	58.0	58.9	—	41.1	40.8	46.4	47.6	—
364	Electric lighting and wiring equipment ..	200.9	201.1	210.1	211.3	213.7	153.8	154.5	161.1	161.9	163.7
3641	Electric lamps	37.9	37.5	38.1	38.0	—	33.6	33.2	33.9	33.2	—
3642	Lighting fixtures	65.4	65.7	68.3	69.0	—	50.4	51.3	52.4	53.5	—
3643.4	Wiring devices	97.6	97.9	103.7	104.3	—	69.8	70.0	74.8	75.2	—
365	Radio and TV receiving equipment	135.7	133.3	139.6	140.6	(*)	100.1	97.5	102.7	103.6	(*)
366	Communication equipment	424.6	426.2	444.5	447.7	(*)	212.3	213.3	222.8	225.0	(*)
3661	Telephone and telegraph apparatus	136.5	138.0	147.9	149.4	—	90.5	92.5	100.4	101.8	—
3662	Radio and TV communication equipment ..	288.1	288.2	296.6	298.3	—	121.8	120.8	122.4	123.2	—
367	Electronic components and accessories ..	384.1	386.0	396.9	398.4	399.8	249.0	249.3	254.2	254.9	256.2
3671-3	Electron tubes	42.2	42.8	43.4	43.1	—	27.5	27.8	28.0	27.8	—
3674.9	Other electronic components	341.9	343.2	353.5	355.3	—	221.5	221.5	226.2	227.1	—
369	Miscellaneous electrical equipment ..	148.9	152.7	161.3	163.4	(*)	114.6	118.8	125.4	127.1	(*)
3694	Engine electrical equipment	76.3	79.9	83.6	84.2	—	60.0	63.9	67.6	68.2	—
37	TRANSPORTATION EQUIPMENT	1,722.1	1,776.9	1,833.2	1,815.1	1,823.2	1,210.1	1,263.4	1,305.2	1,300.7	1,308.4
371	Motor vehicles and equipment	834.8	887.0	913.1	928.6	(*)	642.8	694.7	711.4	727.5	(*)
3711	Motor vehicles	340.3	372.9	378.0	388.2	—	248.3	281.1	282.0	292.8	—
3712	Passenger car bodies	50.1	49.2	45.1	46.9	—	40.3	39.0	33.9	35.8	—
3713	Truck and bus bodies	39.9	39.8	44.8	44.8	—	30.5	30.3	35.8	35.8	—
3714	Motor vehicle parts and accessories	381.4	401.6	418.8	422.1	—	305.9	326.4	339.2	342.3	—
3715	Truck trailers	23.1	23.5	26.4	26.6	—	17.6	17.9	20.5	20.8	—
372	Aircraft and parts	481.4	483.5	487.8	453.1	452.9	246.4	248.3	253.5	230.8	230.2
3721	Aircraft	260.5	261.3	258.7	223.3	—	122.6	123.0	123.7	100.0	—
3722	Aircraft engines and engine parts	130.9	131.9	134.8	134.7	—	70.2	71.1	72.0	72.4	—
3723.9	Other aircraft parts and equipment	90.0	90.3	94.3	95.1	—	53.6	54.2	57.8	58.4	—
373	Ship and boat building and repairing	217.7	220.6	220.8	(*)	—	173.4	175.4	172.2	(*)	—
3731	Ship building and repairing	169.9	171.8	172.4	(*)	—	134.1	135.5	133.0	(*)	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P
	DURABLE GOODS—Continued										
	TRANSPORTATION EQUIPMENT—Continued										
3732	Boat building and repairing	47.8	48.8	48.4	48.3	—	39.3	39.9	39.2	39.4	—
374	Railroad equipment	42.9	44.5	50.4	(*)	—	31.3	32.7	38.0	(*)	—
375,9	Other transportation equipment	145.3	141.3	161.1	161.4	—	116.4	112.3	130.1	130.1	—
38	INSTRUMENTS AND RELATED PRODUCTS	514.0	517.4	530.3	532.4	534.7	313.7	315.6	325.5	327.1	328.7
381	Engineering and scientific instruments	58.2	58.6	59.8	60.0	—	28.1	27.9	28.3	28.4	—
382	Mechanical measuring and control devices	118.9	119.3	124.1	124.9	126.6	75.4	76.0	80.6	81.3	82.8
3821	Mechanical measuring devices	77.3	78.4	82.1	82.7	—	46.1	47.1	50.6	51.2	—
3822	Automatic temperature controls	41.6	40.9	42.0	42.2	—	29.3	28.9	30.0	30.1	—
383,5	Optical and ophthalmic goods	65.4	66.2	70.7	71.4	71.0	44.3	45.1	48.0	48.5	48.1
385	Ophthalmic goods	42.3	42.5	45.2	45.6	—	31.0	31.0	33.2	33.5	—
384	Medical instruments and supplies	110.5	111.5	116.8	117.0	117.8	74.2	74.7	77.9	78.6	78.8
386	Photographic equipment and supplies	130.4	131.4	129.0	129.2	129.2	67.4	67.8	67.1	66.9	67.5
387	Watches, clocks, and watchcases	30.6	30.4	29.9	29.9	—	24.3	24.1	23.6	23.4	—
	MISCELLANEOUS MANUFACTURING INDUSTRIES	435.8	427.9	427.8	429.8	426.6	336.1	327.8	327.2	328.9	325.6
391	Jewelry, silverware, and plated ware	55.8	56.2	56.2	57.9	58.2	41.2	41.6	41.4	42.7	43.1
394	Toys and sporting goods	131.9	124.9	123.4	122.1	—	104.3	97.2	94.8	93.8	—
3941,3	Games, toys, dolls, and play vehicles	76.4	68.6	69.2	67.9	—	59.5	51.9	52.6	51.3	—
3949	Sporting and athletic goods, nec	55.5	56.3	54.2	54.2	—	44.8	45.3	42.2	42.5	—
395	Pens, pencils, office, and art supplies	33.5	33.9	34.4	34.6	—	23.5	23.9	24.8	25.1	—
396	Costume jewelry and notions	53.0	52.9	50.1	51.0	—	43.1	42.9	40.4	41.2	—
393,9	Other manufacturing industries	161.6	160.0	163.7	164.2	162.9	124.0	122.2	125.8	126.1	124.6
393	Musical instruments and parts	24.1	23.7	24.1	24.0	—	19.7	19.3	19.6	19.4	—
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	1,777.9	1,733.5	1,837.9	1,759.3	1,703.6	1,228.6	1,184.4	1,279.2	1,204.8	1,151.7
201	Meat products	360.2	363.5	365.5	367.0	366.8	298.1	300.2	301.5	303.3	302.9
2011	Meat packing plants	172.9	175.5	171.0	171.3	—	140.0	141.6	136.8	137.5	—
2013	Sausages and other prepared meats	66.8	67.7	68.4	69.2	—	47.6	48.3	50.0	50.5	—
2015	Poultry dressing plants	120.5	120.3	126.1	126.5	—	110.5	110.3	114.7	115.3	—
202	Dairy products	192.9	191.0	194.8	192.7	190.9	99.9	98.7	101.6	99.7	98.3
2024	Ice cream and frozen desserts	22.0	20.8	23.0	22.0	—	11.7	10.9	12.7	12.3	—
2026	Fluid milk	124.3	123.9	125.7	124.9	—	53.3	52.9	54.1	53.0	—
203	Canned, cured, and frozen foods	332.5	291.7	390.5	302.2	—	281.6	241.4	337.7	251.8	—
2031,6	Canned, cured, and frozen sea foods	46.5	46.0	43.7	42.6	—	40.5	40.2	38.6	37.5	—
2032,3	Canned food, except sea foods	156.3	125.9	228.8	144.9	—	130.4	100.3	200.1	118.3	—
2037	Frozen fruits and vegetables	77.5	72.8	67.5	65.7	—	68.8	64.0	59.0	57.4	—
204	Grain mill products	148.1	146.5	147.9	148.1	147.3	103.6	101.7	103.2	103.7	102.4
2041	Flour and other grain mill products	27.5	27.3	28.6	28.5	—	19.7	19.6	19.7	19.8	—
2042	Prepared feeds for animals and fowls	75.6	75.3	73.5	73.9	—	49.5	49.0	49.1	49.3	—
205	Bakery products	243.2	242.9	242.4	242.2	242.0	140.9	140.9	141.6	141.2	140.8
2051	Bread, cake, and related products	201.1	201.5	202.2	202.7	—	107.3	107.8	109.2	109.4	—
2052	Cookies and crackers	42.1	41.4	40.2	39.5	—	33.6	33.1	32.4	31.8	—
206	Sugar	43.4	42.8	27.5	36.6	—	35.2	34.6	20.2	28.9	—
207	Confectionery and related products	81.0	80.9	79.9	82.4	82.1	62.6	62.3	62.3	64.7	64.3
2071	Confectionery products	60.1	60.1	58.5	60.8	—	47.6	47.4	47.1	49.3	—
208	Beverages	229.1	226.5	239.8	237.4	235.1	111.3	108.8	115.0	113.6	111.6
2082	Malt liquors	49.3	49.3	52.1	51.0	—	35.4	35.2	37.2	36.0	—
2086	Bottled and canned soft drinks	132.8	131.8	140.9	138.8	—	48.1	47.2	51.2	50.3	—
209	Miscellaneous foods and kindred products	147.5	147.7	149.6	150.7	151.1	95.4	95.8	96.1	97.9	98.2
21	TOBACCO MANUFACTURES	84.2	81.8	75.0	76.0	73.2	71.0	68.7	61.0	61.9	59.2
211	Cigarettes	44.9	45.0	44.2	44.3	—	36.6	36.8	34.5	34.6	—
212	Cigars	10.1	10.1	9.6	9.7	—	8.8	8.7	8.4	8.5	—
22	TEXTILE MILL PRODUCTS	964.8	964.6	991.0	991.0	993.5	841.7	839.6	863.5	863.8	866.9
221	Weaving mills, cotton	175.3	175.3	170.8	169.6	169.7	159.3	159.1	153.9	152.6	152.6
222	Weaving mills, synthetics	122.4	123.0	120.3	119.7	120.2	109.2	109.6	107.8	107.2	107.7
223	Weaving and finishing mills, wool	22.5	22.3	22.3	22.0	22.1	18.8	18.6	18.7	18.4	18.4
224	Narrow fabric mills	25.7	25.7	26.7	26.7	27.3	22.3	22.3	23.4	23.4	24.0
225	Knitting mills	259.0	258.5	277.6	279.1	279.2	222.4	221.1	239.7	241.1	241.2
2251	Women's hosiery, except socks	38.9	39.3	38.5	38.9	—	34.2	34.5	34.0	34.5	—
2252	Hosiery, nec	34.3	34.1	36.9	37.1	—	30.4	30.1	33.3	33.6	—
2253	Knit outerwear mills	78.4	78.1	86.0	87.2	—	66.9	66.0	73.6	74.8	—
2254	Knit underwear mills	39.2	39.6	41.5	41.7	—	33.8	34.2	35.8	35.9	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 P	Nov. 1977 P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 P	Nov. 1977 P
NONDURABLE GOODS—Continued											
TEXTILE MILL PRODUCTS—Continued											
226	Textile finishing, except wool	78.9	79.7	81.6	80.6	80.1	66.8	67.5	69.3	68.2	68.3
227	Floor covering mills	61.1	60.9	65.1	65.5	—	48.5	48.2	51.6	52.2	—
228	Yarn and thread mills	152.2	152.1	158.5	159.3	159.9	139.2	139.2	144.3	145.4	145.8
229	Miscellaneous textile goods	67.7	67.1	68.1	68.5	68.8	55.2	54.0	54.8	55.3	55.6
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,295.7	1,293.6	1,301.7	1,304.9	1,302.4	1,112.7	1,109.6	1,115.7	1,119.3	1,116.4
231	Men's and boys' suits and coats	89.6	89.3	88.1	88.0	88.4	79.1	78.6	76.5	76.4	76.9
232	Men's and boys' furnishings	383.6	380.7	389.1	387.6	(*)	327.5	325.0	334.1	333.3	(*)
2321	Men's and boys' shirts and nightwear	117.8	116.8	114.5	113.4	—	102.5	101.6	98.9	98.1	—
2327	Men's and boys' separate trousers	85.5	84.7	86.7	85.9	—	74.2	73.5	76.2	75.4	—
2328	Men's and boys' work clothing	94.3	94.4	101.2	101.0	—	77.1	77.1	84.1	84.3	—
233	Women's and misses' outerwear	379.3	380.2	373.8	373.7	371.6	332.1	332.1	325.0	325.2	323.1
2331	Women's and misses' blouses and waists	47.7	47.1	47.3	47.8	—	42.0	41.6	41.1	41.7	—
2335	Women's and misses' dresses	166.3	165.7	161.2	160.2	—	148.5	147.2	142.9	142.2	—
2337	Women's and misses' suits and coats	55.1	56.5	56.2	55.2	—	47.2	48.0	47.4	46.5	—
2339	Women's and misses' outerwear, nec	110.2	110.9	109.1	110.5	—	94.4	95.3	93.6	94.8	—
234	Women's and children's undergarments	102.8	102.0	102.9	103.4	102.9	87.3	86.4	87.3	87.9	87.3
2341	Women's and children's underwear	77.8	77.0	78.7	79.1	—	67.4	66.5	68.0	68.3	—
2342	Corsets and allied garments	25.0	25.0	24.2	24.3	—	19.9	19.9	19.3	19.6	—
235	Hats, caps, and millinery	15.5	15.9	15.8	15.8	—	13.5	13.8	14.0	14.0	—
236	Children's outerwear	77.1	75.8	74.7	74.5	75.1	66.3	65.0	63.7	63.3	64.1
2361	Children's dresses and blouses	31.0	30.9	28.9	29.2	—	28.0	27.9	26.0	26.2	—
237,8	Fur goods and miscellaneous apparel	69.2	68.2	70.3	71.2	—	59.7	58.2	60.3	61.0	—
239	Miscellaneous fabricated textile products	178.6	181.5	187.0	190.7	191.0	147.2	150.5	154.8	158.2	158.7
2391,2	Housefurnishings	78.5	78.3	81.3	82.6	—	65.7	65.9	68.2	69.6	—
26	PAPER AND ALLIED PRODUCTS	681.9	685.8	707.6	707.1	710.8	516.2	520.3	531.4	531.6	535.4
261,2,6	Paper and pulp mills	200.1	201.6	205.2	203.4	204.0	152.9	154.0	157.8	155.7	156.6
263	Paperboard mills	70.3	70.8	71.0	70.9	71.6	55.8	56.5	55.9	56.2	56.6
264	Miscellaneous converted paper products	199.2	200.1	211.7	211.9	213.4	142.4	143.8	147.7	149.0	150.8
2643	Bags, except textile bags	43.7	44.1	46.6	46.7	—	35.1	35.4	37.1	37.1	—
265	Paperboard containers and boxes	212.3	213.3	219.7	220.9	221.8	165.1	166.0	170.0	170.7	171.4
2651,2	Folding and setup paperboard boxes	60.9	61.2	59.9	60.5	—	49.6	49.9	48.2	48.5	—
2653	Corrugated and solid fiber boxes	103.2	103.6	107.1	107.5	—	76.3	76.7	78.8	79.2	—
2654	Sanitary food containers	30.3	30.5	34.9	35.0	—	25.0	25.2	29.0	29.0	—
27	PRINTING AND PUBLISHING	1,090.4	1,093.6	1,116.3	1,119.6	1,122.4	634.3	635.3	640.6	644.6	646.1
271	Newspapers	387.8	390.8	394.7	394.2	395.3	167.8	169.2	163.9	163.5	165.9
272	Periodicals	70.9	71.2	72.7	73.4	—	18.7	19.3	19.8	20.1	—
273	Books	87.2	87.5	87.6	87.6	—	45.7	46.0	45.2	45.1	—
275	Commercial printing	361.8	361.6	370.8	373.0	371.6	271.5	271.2	276.9	280.3	278.5
2751	Commercial printing, except lithographic	206.7	205.8	208.5	209.9	—	157.3	156.6	157.6	159.2	—
2752	Commercial printing, lithographic	145.2	145.7	151.9	152.5	—	106.8	107.0	111.0	112.6	—
278	Blankbooks and bookbinding	50.7	50.2	52.6	53.2	53.4	41.3	40.8	43.1	43.5	43.7
274,6,7,9	Other publishing and printing ind	132.0	132.3	137.9	138.2	(*)	89.3	88.8	91.7	92.1	(*)
28	CHEMICALS AND ALLIED PRODUCTS	1,037.5	1,039.9	1,063.7	1,062.5	1,065.7	590.7	591.6	611.9	610.0	612.0
281	Industrial chemicals	337.7	339.4	349.2	349.7	350.5	179.7	181.3	189.7	189.8	190.0
2812	Alkalies and chlorine	21.1	21.4	21.3	21.6	—	15.6	15.9	15.5	15.8	—
2818	Industrial organic chemicals, nec	139.8	140.6	143.7	143.9	—	62.7	63.5	68.2	67.9	—
2819	Industrial inorganic chemicals, nec	110.8	111.4	116.3	116.5	—	59.9	60.0	63.1	63.2	—
282	Plastics materials and synthetics	202.6	203.0	202.6	201.6	203.1	135.0	134.8	137.3	136.0	137.6
2821	Plastics materials and resins	89.0	89.2	89.7	89.8	—	56.0	55.9	56.3	56.1	—
2823,4	Synthetic fibers	101.7	100.7	99.3	98.1	—	70.0	69.0	70.7	69.6	—
283	Drugs	169.7	170.1	176.1	176.4	176.9	84.1	84.6	86.8	86.9	86.9
2834	Pharmaceutical preparations	135.4	135.8	140.8	141.2	—	64.6	65.1	67.0	67.2	—
284	Soap, cleaners, and toilet goods	127.5	126.4	127.9	127.6	(*)	77.1	75.9	78.1	78.1	(*)
2841	Soap and other detergents	40.6	40.8	41.1	41.1	—	27.3	27.4	27.0	27.2	—
2844	Toilet preparations	53.2	52.0	52.2	52.3	—	32.1	30.8	32.5	32.6	—
285	Paints and allied products	66.5	66.6	70.9	70.1	69.8	35.5	35.2	37.3	36.7	36.7
287	Agricultural chemicals	54.4	54.3	55.8	56.0	56.1	33.0	33.1	34.1	34.1	34.0
2871,2	Fertilizers, complete and mixing only	32.4	32.2	33.3	33.4	—	22.0	22.0	22.0	21.9	—
286,9	Other chemical products	79.1	80.1	81.2	81.1	81.2	46.3	46.7	48.6	48.4	48.5
2892	Explosives	13.4	13.5	13.9	13.8	—	8.2	8.4	9.6	9.4	—
29	PETROLEUM AND COAL PRODUCTS	204.6	203.7	213.7	213.4	212.5	132.9	132.2	141.6	141.5	141.4
291	Petroleum refining	157.0	156.9	161.9	161.5	161.9	97.8	97.8	102.7	102.8	103.7
295,9	Other petroleum and coal products	47.6	46.8	51.8	51.9	50.6	35.1	34.4	38.9	38.7	37.7

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 P	Nov. 1977 P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 P	Nov. 1977 P
NONDURABLE GOODS—Continued											
30	RUBBER AND PLASTICS PRODUCTS, NEC.	652.6	651.9	684.9	688.7	688.7	511.9	510.4	536.1	539.1	538.4
301	Tires and inner tubes	118.5	119.6	122.8	122.1	122.4	87.6	87.6	90.3	89.7	90.0
302,3,6	Other rubber products	171.9	171.8	174.4	174.6	175.9	134.8	135.0	136.7	136.4	137.6
302	Rubber footwear	23.5	22.7	19.7	19.8	—	—	19.8	19.3	16.9	—
307	Miscellaneous plastics products	362.2	360.5	387.7	392.0	390.4	289.5	287.8	309.1	313.0	310.8
31	LEATHER AND LEATHER PRODUCTS	264.2	265.1	262.5	265.6	268.3	225.9	226.1	223.8	226.3	228.9
311	Leather tanning and finishing	22.8	22.8	22.9	23.1	23.3	19.4	19.4	19.6	19.8	20.1
314	Footwear, except rubber	163.1	163.3	160.5	162.5	163.7	141.6	141.7	139.8	141.4	142.9
312,3,5-7,9	Other leather products	78.3	79.0	79.1	80.0	81.3	64.9	65.0	64.4	65.1	65.9
316	Luggage	17.9	17.6	18.5	18.7	—	14.1	13.8	14.3	14.4	—
317	Handbags and personal leather goods	36.6	37.1	36.1	36.9	—	30.6	30.8	29.8	30.4	—
TRANSPORTATION AND PUBLIC UTILITIES											
40	RAILROAD TRANSPORTATION	537.4	533.8	541.1	535.9	—	—	—	—	—	—
4011	Class I railroads ²	498.8	495.9	504.0	498.9	—	—	—	—	—	—
LOCAL AND INTERURBAN PASSENGER TRANSIT											
41	LOCAL AND SUBURBAN TRANSPORTATION	275.2	275.7	258.8	259.7	—	—	—	—	—	—
411	Taxis and suburban transportation	67.1	67.2	67.0	67.5	—	61.4	61.7	61.7	62.0	—
412	Taxicabs	75.1	75.9	68.9	69.0	—	—	—	—	—	—
413	Intercity highway transportation	39.4	39.5	40.0	37.7	—	35.5	35.6	36.3	34.3	—
42	TRUCKING AND WAREHOUSING	1,104.3	1,111.9	1,157.1	1,159.8	—	984.2	990.7	1,025.9	1,027.2	—
421,3	Trucking and trucking terminals	1,012.2	1,015.6	1,063.8	1,063.3	—	904.8	907.0	945.4	943.9	—
422	Public warehousing	92.1	96.3	93.3	96.5	—	79.4	83.7	80.5	83.3	—
45	TRANSPORTATION BY AIR	372.8	372.5	384.3	382.0	—	—	—	—	—	—
451,2	Air transportation	337.1	336.6	347.1	344.6	—	—	—	—	—	—
46	PIPELINE TRANSPORTATION	16.6	16.5	16.6	16.3	—	12.2	12.2	12.1	11.8	—
44,47	OTHER TRANSPORTATION AND SERVICES	345.2	348.3	373.0	361.4	—	—	—	—	—	—
44	Water transportation	197.7	198.5	211.1	199.4	—	—	—	—	—	—
47	Transportation services	147.5	149.8	161.9	162.0	—	—	—	—	—	—
48	COMMUNICATION	1,150.9	1,153.1	1,176.9	1,176.8	—	885.6	886.7	894.6	893.6	—
481	Telephone communication	939.4	940.3	957.2	956.5	—	714.8	714.6	718.5	717.2	—
482	Telegraph communication ³	17.4	17.2	(*)	(*)	—	13.0	13.1	(*)	(*)	—
483	Radio and television broadcasting	159.8	160.8	164.8	165.2	—	127.8	128.4	129.3	129.6	—
49	ELECTRIC, GAS, AND SANITARY SERVICES	735.6	734.3	745.1	743.5	—	608.8	608.0	614.5	611.9	—
491	Electric companies and systems	314.5	314.6	321.4	321.3	—	258.6	258.8	263.4	263.0	—
492	Gas companies and systems	158.0	157.3	156.4	155.5	—	129.6	129.0	128.1	127.2	—
493	Combination companies and systems	194.7	194.6	195.3	195.2	—	161.7	161.7	161.1	160.5	—
494-7	Water, steam, and sanitary systems	68.4	67.8	72.0	71.5	—	58.9	58.5	61.9	61.2	—
—	WHOLESALE AND RETAIL TRADE	17,922	18,122	18,463	18,530	18,749	15,850	16,042	16,262	16,318	16,521
50	WHOLESALE TRADE	4,322	4,321	4,428	4,452	4,465	3,582	3,581	3,654	3,671	3,685
501	Motor vehicles and automotive equipment	382.0	384.7	395.8	398.9	—	311.4	314.0	324.0	326.3	—
502	Drugs, chemicals, and allied products	242.0	242.1	249.7	251.7	—	192.2	192.4	198.0	200.3	—
503	Dry goods and apparel	156.2	157.7	159.8	161.4	—	121.8	122.8	123.6	125.0	—
504	Groceries and related products	638.1	632.6	631.4	629.7	—	556.7	551.2	547.9	544.7	—
506	Electrical goods	321.3	322.8	333.5	336.9	—	270.1	271.2	276.7	279.0	—
507	Hardware; plumbing and heating equipment	188.4	188.9	196.9	197.1	—	156.4	156.9	163.3	163.8	—
508	Machinery, equipment, and supplies	892.7	894.6	939.3	942.4	—	737.2	739.8	777.5	778.9	—
509	Miscellaneous wholesalers	1,380.9	1,381.5	1,410.8	1,416.9	—	1,136.4	1,136.6	1,154.1	1,157.9	—
52-59	RETAIL TRADE	13,600	13,801	14,035	14,078	14,284	12,268	12,461	12,608	12,647	12,836
53	Retail General Merchandise	2,538.6	2,658.4	2,515.3	2,579.7	—	2,340.1	2,460.6	2,315.6	2,378.2	—
531	Department stores	1,716.7	1,809.5	1,730.7	1,780.7	—	1,592.7	1,686.0	1,606.7	1,656.1	—
532	Mail order houses	122.5	131.9	111.4	120.7	—	115.6	125.1	106.2	115.9	—
533	Variety stores	315.7	327.6	299.6	300.0	—	296.5	308.1	278.7	278.7	—
54	FOOD STORES	2,080.6	2,103.6	2,125.6	2,135.6	—	1,924.0	1,945.2	1,962.5	1,971.7	—
541-3	Grocery, meat, and vegetable stores	1,892.4	1,913.1	1,928.8	1,939.3	—	1,749.9	1,768.8	1,781.3	1,791.4	—

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 p	Nov. 1977 p	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 p	Nov. 1977 p
WHOLESALE AND RETAIL TRADE—Continued											
56	APPAREL AND ACCESSORY STORES	802.6	830.2	811.0	821.9	—	700.4	726.0	701.4	711.5	—
561	Men's and boys' clothing and furnishings	140.2	146.4	139.1	142.1	—	121.9	127.7	119.3	122.2	—
562	Women's ready-to-wear stores	297.9	306.5	292.4	297.3	—	262.6	270.2	254.5	259.1	—
565	Family clothing stores	125.7	133.5	128.7	130.6	—	113.0	120.3	114.5	116.4	—
566	Shoe stores	164.0	166.4	174.5	174.5	—	137.3	139.4	145.5	145.5	—
57	FURNITURE AND HOME FURNISHINGS STORES	538.7	545.5	551.9	558.9	—	455.0	461.3	463.3	469.6	—
571	Furniture and home furnishings	323.7	325.7	329.9	333.8	—	275.6	277.2	279.3	282.7	—
58	EATING AND DRINKING PLACES	3,706.7	3,686.4	4,008.2	3,939.0	—	3,458.2	3,436.2	3,717.8	3,649.0	—
52,55,59	OTHER RETAIL TRADE	3,932.4	3,976.5	4,023.3	4,043.0	—	3,390.7	3,431.8	3,447.6	3,467.3	—
52	Building materials and farm equipment	637.4	636.9	667.8	668.7	—	546.7	546.3	568.8	569.7	—
55	Automotive dealers and service stations	1,754.9	1,758.4	1,786.8	1,787.8	—	—	—	—	—	—
551,2	Motor vehicle dealers	794.6	795.0	815.8	819.6	—	664.1	664.1	678.8	682.3	—
553,9	Other automotive and accessory dealers	331.7	332.9	346.0	345.6	—	280.0	281.1	292.8	292.1	—
554	Gasoline service stations	628.6	630.5	625.0	622.6	—	—	—	—	—	—
59	Miscellaneous retail stores	1,540.1	1,581.2	1,568.7	1,586.5	—	—	—	—	—	—
591	Drug stores and proprietary stores	477.7	483.7	486.1	488.4	—	424.8	430.1	429.2	432.4	—
594	Book and stationery stores	81.8	83.2	81.7	81.0	—	69.2	70.5	69.3	68.5	—
596	Farm and garden supply stores	140.7	139.9	140.9	142.5	—	—	—	—	—	—
598	Fuel and ice dealers	97.7	103.3	94.9	98.0	—	82.4	88.2	79.9	83.0	—
FINANCE, INSURANCE, AND REAL ESTATE⁴											
		4,355	4,368	4,554	4,566	4,578	3,325	3,335	3,469	3,476	3,483
60	Banking	1,306.7	1,311.9	1,350.8	1,353.8	—	1,030.4	1,034.4	1,052.5	1,054.1	—
61	Credit agencies other than banks	470.8	474.3	508.0	511.4	—	362.9	365.3	392.4	394.5	—
612	Savings and loan associations	190.9	192.6	211.1	212.8	—	154.1	155.0	168.3	169.5	—
614	Personal credit institutions	196.0	197.2	206.9	207.5	—	—	—	—	—	—
62	Security, commodity brokers and services	176.6	176.6	180.9	179.5	—	144.1	144.0	147.1	145.7	—
63	Insurance carriers	1,117.4	1,121.7	1,155.1	1,157.0	—	755.5	759.3	782.9	784.9	—
631	Life insurance	514.9	517.2	518.4	517.9	—	294.6	295.8	293.7	293.8	—
632	Accident and health insurance	121.9	122.2	124.6	123.8	—	99.1	99.5	101.6	100.4	—
633	Fire, marine, and casualty insurance	418.0	420.5	443.2	445.9	—	310.0	311.9	330.8	333.5	—
64	Insurance agents, brokers, and service	346.6	347.8	370.1	374.3	—	—	—	—	—	—
65	Real estate	822.5	821.9	871.8	871.9	—	—	—	—	—	—
655	Subdividers and developers	115.9	113.2	123.7	120.1	—	—	—	—	—	—
656	Operative builders	58.5	59.3	66.4	65.6	—	—	—	—	—	—
66,67	Other finance, insurance, and real estate	114.8	114.1	117.1	117.9	—	—	—	—	—	—
SERVICES		14,849	14,858	15,513	15,578	15,606	13,375	13,373	13,841	13,909	13,933
70	Hotels and other lodging places	1,043.8	1,016.3	1,115.4	1,053.9	—	—	—	—	—	—
701	Hotels, tourist courts, and motels	866.4	844.2	901.2	866.7	—	802.9	779.9	832.8	800.2	—
72	Personal services	820.7	816.6	800.6	805.7	—	—	—	—	—	—
721	Laundries and dry cleaning plants	350.7	349.7	349.7	349.2	—	314.3	313.0	313.2	312.6	—
722	Photographic studios	48.6	48.6	41.5	42.7	—	43.7	43.9	37.5	38.8	—
73	Miscellaneous business services	2,171.8	2,179.1	2,301.5	2,322.7	—	—	—	—	—	—
731	Advertising	128.4	128.7	135.8	136.8	—	—	—	—	—	—
732	Credit reporting and collection	83.1	84.0	88.8	89.7	—	—	—	—	—	—
734	Services to buildings	417.1	418.1	433.5	435.3	—	—	—	—	—	—
76	Miscellaneous repair services	222.4	225.2	235.1	235.6	—	—	—	—	—	—
78	Motion pictures	201.5	195.1	216.1	207.1	—	—	—	—	—	—
781	Motion picture filming and distributing	67.2	66.1	72.0	73.8	—	52.0	51.6	60.4	60.9	—
782,3	Motion picture theaters and services	134.3	129.0	144.1	133.3	—	—	—	—	—	—
80	Medical and other health services	4,519.4	4,548.0	4,801.3	4,827.1	—	—	—	—	—	—
806	Hospitals	2,423.0	2,434.0	2,519.3	2,531.9	—	2,210.3	2,221.0	2,248.2	2,265.5	—
81	Legal services	377.3	381.5	410.4	416.2	—	—	—	—	—	—
82	Educational services	1,339.4	1,353.2	1,295.1	1,406.9	—	—	—	—	—	—
821	Elementary and secondary schools	425.8	427.2	446.7	457.4	—	—	—	—	—	—
822	Colleges and universities	734.4	745.2	655.4	749.5	—	—	—	—	—	—
89	Miscellaneous services	917.4	924.1	985.6	989.9	—	—	—	—	—	—
891	Engineering and architectural services	417.9	421.3	451.1	453.7	—	—	—	—	—	—
892	Nonprofit research agencies	153.3	155.4	165.2	166.2	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^p	Nov. 1977 ^p	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^p	Nov. 1977 ^p
—	GOVERNMENT	15,104	15,268	15,003	15,457	15,651	-	-	-	-	-
91	FEDERAL GOVERNMENT⁵	2,711	2,720	2,717	2,714	2,720	-	-	-	-	-
	Executive	2,661.1	2,670.3	2,665.4	2,662.5	-	-	-	-	-	
	Department of Defense	918.0	920.4	909.1	907.8	-	-	-	-	-	
	Postal Service	657.9	664.9	655.0	649.2	-	-	-	-	-	
	Other agencies	1,085.2	1,085.0	1,101.3	1,105.5	-	-	-	-	-	
	Legislative	38.5	38.2	39.3	38.9	-	-	-	-	-	
	Judicial	11.5	11.9	12.5	12.5	-	-	-	-	-	
92,93	STATE AND LOCAL GOVERNMENT	12,393	12,548	12,286	12,743	12,931	-	-	-	-	
92	State government	3,344.5	3,376.9	3,263.6	3,384.5	-	-	-	-	-	
	State education	1,463.4	1,495.8	1,310.6	1,448.9	-	-	-	-	-	
	Other State government	1,881.1	1,881.1	1,953.0	1,935.6	-	-	-	-	-	
93	Local government	9,048.6	9,171.0	9,022.6	9,358.7	-	-	-	-	-	
	Local education	5,142.9	5,252.6	4,956.2	5,332.3	-	-	-	-	-	
	Other local government	3,905.2	3,918.4	4,066.4	4,026.4	-	-	-	-	-	

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

² Beginning January 1976, data relate to line haul railroads with operating revenues of \$10,000,000 or more.

³ Data for nonsupervisory workers exclude messengers.

⁴ Data for nonoffice sales agents excluded from nonsupervisory count for all series in this division.

⁵ Prepared by the U.S. Civil Service Commission. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

^p Not available.

^p=preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT**

**B-4. Indexes of employment on nonagricultural payrolls, by industry division,
1919 to date, monthly data seasonally adjusted**

[1967 = 100]

Year and month	Total	Goods-producing				Service-producing									
		Total	Mining	Contract 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
1919.....	41.1	55.1	184.8	31.8	54.8	33.5	87.1	33.2	-	-	34.4	22.4	23.5	-	-
1920.....	41.5	54.8	202.1	26.4	54.8	34.3	93.8	32.8	-	-	36.4	23.4	22.8	-	-
1925.....	43.7	53.6	177.7	45.1	51.1	38.3	89.8	41.0	-	-	38.2	28.4	24.6	-	-
1926.....	45.3	55.4	193.3	48.5	52.2	39.7	92.5	42.5	-	-	40.5	30.2	25.0	-	-
1927.....	45.5	54.7	181.7	50.1	51.4	40.5	91.4	43.4	-	-	42.4	31.4	25.6	-	-
1928.....	45.6	54.2	171.3	50.1	51.1	40.8	89.8	43.2	-	-	44.5	32.3	26.3	-	-
1929.....	47.6	57.1	177.3	46.7	55.0	42.4	91.9	45.0	-	-	46.8	34.1	26.9	19.6	29.2
1930.....	44.7	51.3	164.6	42.8	49.2	41.0	86.5	42.6	-	-	45.7	33.4	27.6	19.3	30.2
1931.....	40.5	44.1	142.4	37.8	42.0	38.5	76.4	38.8	-	-	43.6	31.5	28.6	20.6	31.2
1932.....	35.9	37.1	119.2	30.2	35.6	35.2	66.1	34.4	-	-	41.6	29.0	28.3	20.6	30.7
1933.....	36.0	38.5	121.4	25.2	38.0	34.7	62.7	34.9	-	-	40.2	28.4	27.8	20.8	30.0
1934.....	39.4	44.0	144.0	26.9	43.7	36.9	64.5	38.8	-	-	40.9	30.3	28.9	24.0	30.5
1935.....	41.1	46.8	146.3	28.4	46.6	38.0	65.4	39.9	-	-	41.4	31.1	30.5	27.7	31.4
1936.....	44.2	51.2	154.3	35.7	50.5	40.3	69.8	42.7	-	-	43.0	32.9	32.2	30.4	32.7
1937.....	47.1	55.5	165.6	34.7	55.5	42.5	73.6	46.0	-	-	44.4	34.8	33.0	30.6	33.7
1938.....	44.4	48.9	145.4	32.9	48.5	41.8	67.2	45.4	-	-	44.2	34.4	34.1	30.5	35.2
1939.....	46.5	52.8	139.3	35.8	52.9	43.1	68.9	47.2	47.8	47.0	45.3	34.8	35.1	33.3	35.6
1940.....	49.2	56.7	150.9	40.3	56.5	45.0	71.3	49.6	49.8	49.6	46.6	36.4	36.9	36.6	36.9
1941.....	55.5	68.5	156.1	55.8	67.8	48.4	76.8	53.0	53.1	53.0	48.0	38.8	40.9	49.3	38.3
1942.....	60.9	79.3	161.8	67.6	78.6	50.9	81.2	52.3	51.7	52.5	47.7	40.4	48.1	81.4	37.7
1943.....	64.5	86.4	150.9	48.8	90.5	52.5	85.6	51.3	49.4	52.0	46.6	41.1	53.3	106.8	36.6
1944.....	63.6	83.0	145.5	34.1	89.1	53.0	89.9	51.9	50.0	52.5	45.8	41.2	53.0	107.7	35.9
1945.....	61.3	75.2	136.4	35.3	79.8	53.8	91.7	53.8	52.8	54.1	46.4	42.0	52.1	103.3	36.1
1946.....	63.3	74.0	140.6	51.8	75.6	57.4	95.3	61.6	62.1	61.4	52.6	46.7	49.1	82.9	38.5
1947.....	66.6	79.4	155.8	61.8	79.9	59.6	97.8	65.8	67.0	65.4	54.4	50.0	48.0	69.6	41.3
1948.....	68.2	80.6	162.2	67.6	80.1	61.4	98.3	68.1	70.6	67.3	56.7	51.5	49.6	68.5	43.6
1949.....	66.5	75.4	151.7	67.5	74.3	61.6	93.9	68.1	70.6	67.2	57.6	52.1	51.4	70.2	45.5
1950.....	68.7	79.4	147.0	72.7	78.4	62.8	94.7	69.0	71.4	68.1	59.5	53.3	52.9	70.9	47.2
1951.....	72.7	85.6	151.5	81.1	84.3	65.6	99.2	71.6	73.9	70.8	61.7	55.2	56.1	84.7	47.1
1952.....	74.1	86.7	146.5	82.1	85.5	67.3	99.7	73.5	76.2	72.6	64.2	56.7	58.0	89.0	48.3
1953.....	76.3	90.4	141.3	81.8	90.2	68.6	100.7	75.3	77.4	74.6	66.5	58.1	58.3	84.8	50.0
1954.....	74.4	84.7	129.0	81.4	83.9	68.8	95.8	75.2	77.7	74.4	69.3	59.4	59.2	80.5	52.6
1955.....	76.9	88.0	129.2	87.3	86.8	70.9	97.2	77.4	79.3	76.8	72.4	62.1	60.7	80.4	54.5
1956.....	79.6	90.5	134.1	93.5	88.7	73.6	99.6	79.8	81.8	79.1	75.3	64.7	63.8	81.2	58.4
1957.....	80.3	89.9	135.1	91.1	88.3	75.1	99.5	80.0	82.1	79.3	76.8	66.8	66.8	81.5	62.2
1958.....	78.0	83.7	122.5	86.6	82.0	74.9	93.3	79.0	80.8	78.4	78.1	67.4	68.8	80.6	65.1
1959.....	81.0	87.5	119.4	92.3	85.7	77.4	94.1	81.8	83.6	81.2	80.4	70.6	70.9	82.1	67.4
1960.....	82.4	87.6	116.2	89.9	86.4	79.5	94.0	83.7	85.2	83.2	82.8	73.5	73.3	83.5	70.1
1961.....	82.1	85.2	109.6	87.8	84.0	80.4	91.6	83.3	84.9	82.8	84.7	75.9	75.4	83.8	72.8
1962.....	84.4	87.7	106.0	90.5	86.7	82.6	91.7	85.0	86.7	84.4	86.8	79.5	78.0	86.1	75.5
1963.....	86.1	88.5	103.6	92.4	87.4	84.8	91.6	86.6	88.1	86.1	89.2	82.4	80.9	86.7	79.1
1964.....	88.6	90.1	103.4	95.1	88.8	87.8	92.7	89.4	90.5	89.0	91.7	86.2	84.2	86.4	83.5
1965.....	92.3	94.0	103.1	99.3	92.9	91.4	94.7	93.5	94.0	93.3	93.7	90.0	88.4	87.5	88.7
1966.....	97.1	99.3	102.3	102.1	98.8	95.9	97.4	97.3	97.5	97.3	96.1	94.6	94.7	94.3	94.8
1967.....	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	100.0	100.0
1968.....	103.2	101.8	98.9	103.1	101.7	103.9	101.2	103.6	102.4	104.0	104.8	105.2	103.9	100.7	105.0
1969.....	107.0	104.5	101.0	109.9	103.7	108.3	104.1	108.1	105.9	108.8	110.4	111.2	107.1	101.4	108.8
1970.....	107.7	101.0	101.6	110.2	99.5	111.3	105.7	110.5	108.3	111.3	114.3	115.1	110.2	100.4	113.3
1971.....	108.1	98.1	99.3	113.4	95.5	113.6	104.6	112.8	108.5	114.4	117.9	117.9	113.1	99.2	117.4
1972.....	111.9	101.2	102.0	119.4	98.2	117.8	106.0	117.4	111.9	119.4	122.3	122.7	117.0	98.7	122.8
1973.....	116.8	106.3	105.1	125.2	103.2	122.5	109.0	122.5	116.5	124.7	126.9	128.9	120.5	97.9	127.6
1974.....	119.1	106.1	113.2	123.3	103.1	126.1	110.2	125.1	119.8	126.9	130.5	134.8	124.4	100.2	132.0
1975.....	117.0	97.1	121.5	109.5	94.3	127.8	105.6	124.9	118.5	127.2	130.9	138.7	129.1	101.1	138.0
1976.....	120.6	100.3	127.7	112.0	97.5	131.7	105.8	130.0	120.9	133.2	133.8	145.0	131.1	100.5	140.7
Nov.....	121.7	100.9	131.3	112.5	98.1	133.0	106.1	131.2	121.7	134.5	135.8	147.1	131.9	100.4	141.7
Dec.....	122.0	101.1	132.0	112.4	98.3	133.5	106.8	131.7	122.1	135.1	136.4	147.9	131.9	100.0	141.9
1977:															
Jan.....	122.3	101.4	133.3	110.6	98.8	133.8	106.6	132.3	122.6	135.6	137.0	148.6	131.8	100.1	141.7
Feb.....	122.8	102.1	134.4	114.1	99.1	134.1	106.9	132.6	123.0	135.9	137.4	149.2	131.7	100.1	141.7
Mar.....	123.5	103.2	137.2	117.2	99.8	134.6	107.1	133.2	123.5	136.5	138.1	150.0	131.9	100.2	141.8
Apr.....	123.9	103.9	138.2	119.4	100.3	134.9	107.4	133.6	124.0	136.9	138.4	150.3	132.0	100.1	142.0
May.....	124.3	104.3	137.8	120.1	100.6	135.2	107.6	133.8	124.2	137.1	138.9	150.5	132.5	100.2	142.7
June.....	124.8	104.7	139.6	121.2	100.8	135.7	107.7	134.2	124.5	137.7	139.3	151.1	133.3	100.6	143.6
July.....	125.1	104.9	135.9	122.0	101.1	136.2	107.3	134.7	124.7	138.2	139.7	152.2	133.6	100.1	144.0
Aug.....	125.2	104.5	133.4	121.4	100.8	136.6	107.5	135.1	124.8	138.7	140.3	153.0	133.7	100.5	144.1
Sept.....	125.7	104.7	139.6	121.3	100.8	137.1	108.3	135.5	125.1	139.1	140.9	153.3	134.5	100.3	145.2
Oct.....	125.9	105.0	140.1	122.3	101.1	137.3	108.1	135.3	125.3	138.8	141.7	153.8	134.6	100.4	145.4
Nov.....	126.4	105.4	140.8	123.2	101.4	137.8	108.2	135.7	125.8	139.2	142.4	154.5	135.2	100.4	146.1

p = preliminary.

NOTE: Data include Alaska and Hawaii beginning 1959. This inclusion has resulted in an

increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark month.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. p	Nov. p
TOTAL	80,127	80,370	80,574	80,870	81,331	81,620	81,837	82,157	82,407	82,474	82,763	82,905	83,217
GOODS-PRODUCING	23,484	23,528	23,585	23,763	24,017	24,176	24,264	24,355	24,412	24,305	24,360	24,438	24,534
MINING	805	809	817	824	841	847	845	856	833	818	856	859	863
CONTRACT CONSTRUCTION	3,609	3,605	3,549	3,661	3,759	3,830	3,853	3,888	3,913	3,893	3,892	3,924	3,953
MANUFACTURING	19,070	19,114	19,219	19,278	19,417	19,499	19,566	19,611	19,666	19,594	19,612	19,655	19,718
DURABLE GOODS	11,126	11,165	11,236	11,261	11,373	11,404	11,451	11,484	11,548	11,527	11,545	11,597	11,645
Ordnance and accessories	157	156	156	156	156	156	156	157	156	156	155	150	151
Lumber and wood products	621	625	625	627	633	635	638	638	640	642	648	652	663
Furniture and fixtures	492	494	495	498	503	506	508	510	515	508	510	517	519
Stone, clay, and glass products	636	630	633	622	643	650	653	659	659	656	658	658	668
Primary metal industries	1,189	1,185	1,185	1,180	1,200	1,208	1,215	1,218	1,204	1,202	1,211	1,206	1,211
Fabricated metal products	1,397	1,405	1,415	1,420	1,432	1,433	1,444	1,452	1,459	1,460	1,456	1,474	1,485
Machinery, except electrical	2,102	2,107	2,122	2,134	2,142	2,150	2,165	2,170	2,202	2,210	2,217	2,242	2,240
Electrical equipment and supplies	1,858	1,863	1,874	1,890	1,906	1,915	1,925	1,931	1,959	1,951	1,944	1,962	1,972
Transportation equipment	1,746	1,765	1,787	1,786	1,808	1,802	1,797	1,802	1,813	1,802	1,809	1,795	1,791
Instruments and related products	514	517	521	523	526	525	528	527	527	526	528	530	532
Miscellaneous manufacturing	414	418	423	425	424	424	422	420	414	414	409	411	413
NONDURABLE GOODS	7,944	7,949	7,983	8,017	8,044	8,095	8,115	8,127	8,118	8,067	8,067	8,058	8,073
Food and kindred products	1,713	1,711	1,723	1,727	1,732	1,741	1,733	1,736	1,728	1,710	1,711	1,692	1,683
Tobacco manufactures	75	75	73	73	69	74	72	72	72	68	67	68	67
Textile mill products	962	961	960	967	974	979	986	986	992	982	985	987	991
Apparel and other textile products	1,278	1,273	1,279	1,282	1,284	1,290	1,292	1,301	1,292	1,286	1,285	1,284	1,287
Paper and allied products	680	682	685	687	689	695	701	703	705	704	702	703	705
Printing and publishing	1,089	1,089	1,092	1,096	1,099	1,103	1,108	1,113	1,114	1,114	1,116	1,116	1,118
Chemicals and allied products	1,038	1,042	1,045	1,049	1,052	1,057	1,062	1,061	1,064	1,061	1,058	1,058	1,064
Petroleum and coal products	203	204	205	205	207	209	210	210	210	210	210	211	212
Rubber and plastics products, nec	642	648	656	666	672	681	684	680	683	671	671	673	679
Leather and leather products	264	264	265	265	266	266	267	265	258	261	262	266	267
SERVICE-PRODUCING	56,643	56,842	56,989	57,107	57,314	57,444	57,573	57,802	57,995	58,169	58,403	58,467	58,683
TRANSPORTATION AND PUBLIC UTILITIES	4,523	4,549	4,544	4,553	4,563	4,575	4,586	4,588	4,572	4,581	4,616	4,607	4,612
WHOLESALE AND RETAIL TRADE ..	17,848	17,925	17,994	18,039	18,118	18,175	18,202	18,264	18,322	18,377	18,431	18,411	18,465
WHOLESALE TRADE	4,291	4,305	4,323	4,334	4,354	4,371	4,379	4,387	4,394	4,398	4,410	4,417	4,434
RETAIL TRADE	13,557	13,620	13,671	13,705	13,764	13,804	13,823	13,877	13,928	13,979	14,021	13,994	14,031
FINANCE, INSURANCE, AND REAL ESTATE	4,381	4,398	4,419	4,431	4,453	4,463	4,481	4,494	4,506	4,524	4,545	4,571	4,592
SERVICES	14,858	14,936	15,010	15,068	15,149	15,182	15,197	15,260	15,372	15,448	15,482	15,531	15,606
Hotels and other lodging places	1,069	1,086	1,094	1,083	1,089	1,092	1,073	1,066	1,082	1,081	1,073	1,078	-
Personal services	809	809	809	808	809	809	805	806	802	803	801	799	-
Medical and other health services	4,548	4,572	4,584	4,608	4,634	4,662	4,681	4,723	4,747	4,778	4,801	4,827	-
Educational services	1,274	1,271	1,274	1,280	1,286	1,287	1,289	1,285	1,314	1,327	1,356	1,341	-
GOVERNMENT	15,033	15,034	15,022	15,016	15,031	15,049	15,107	15,196	15,223	15,239	15,329	15,347	15,408
FEDERAL	2,731	2,720	2,721	2,721	2,725	2,721	2,725	2,735	2,721	2,732	2,728	2,730	2,731
STATE AND LOCAL	12,302	12,314	12,301	12,295	12,306	12,328	12,382	12,461	12,502	12,507	12,601	12,617	12,677

p = preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT**

**B-6. Production or nonsupervisory workers¹ on private nonagricultural payrolls,
by industry division and major manufacturing group, seasonally adjusted**

(In thousands)

Industry division and group	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. ^P	Nov. ^P
TOTAL	53,537	53,718	53,800	54,080	54,462	54,693	54,823	54,968	55,122	55,117	55,267	55,349	55,588
GOODS-PRODUCING	17,171	17,186	17,180	17,349	17,594	17,739	17,806	17,877	17,888	17,784	17,829	17,910	17,997
MINING	612	613	609	617	636	639	637	645	624	609	643	645	648
CONTRACT CONSTRUCTION	2,871	2,854	2,764	2,880	2,983	3,056	3,067	3,100	3,119	3,097	3,095	3,124	3,149
MANUFACTURING	13,688	13,719	13,807	13,852	13,975	14,044	14,102	14,132	14,145	14,078	14,091	14,141	14,200
DURABLE GOODS	7,932	7,967	8,024	8,039	8,137	8,167	8,211	8,236	8,271	8,252	8,266	8,321	8,367
Ordnance and accessories	70	70	70	70	70	71	72	73	73	71	70	67	67
Lumber and wood products	524	528	529	532	538	540	543	544	544	548	553	555	567
Furniture and fixtures	404	406	405	409	413	417	419	420	423	416	418	424	427
Stone, clay, and glass products	506	501	502	489	511	518	521	527	527	523	524	524	533
Primary metal industries	929	925	925	919	939	944	952	954	943	937	948	945	949
Fabricated metal products	1,053	1,061	1,069	1,075	1,084	1,085	1,096	1,103	1,106	1,104	1,102	1,118	1,129
Machinery, except electrical	1,354	1,358	1,370	1,378	1,385	1,390	1,404	1,409	1,438	1,443	1,444	1,463	1,461
Electrical equipment and supplies	1,229	1,233	1,239	1,254	1,267	1,276	1,285	1,287	1,299	1,296	1,289	1,302	1,316
Transportation equipment	1,235	1,250	1,273	1,267	1,284	1,279	1,272	1,275	1,281	1,279	1,285	1,287	1,279
Instruments and related products	313	316	318	320	321	322	323	323	322	321	324	325	326
Miscellaneous manufacturing	315	319	324	326	325	325	324	321	315	314	309	311	313
NONDURABLE GOODS	5,756	5,752	5,783	5,813	5,838	5,877	5,891	5,896	5,874	5,826	5,825	5,820	5,833
Food and kindred products	1,164	1,160	1,170	1,175	1,181	1,187	1,181	1,181	1,170	1,156	1,157	1,139	1,131
Tobacco manufactures	62	62	60	60	56	60	58	59	57	54	54	55	53
Textile mill products	838	837	838	842	849	855	860	860	866	855	857	860	865
Apparel and other textile products	1,095	1,092	1,096	1,100	1,102	1,107	1,109	1,117	1,105	1,102	1,100	1,100	1,102
Paper and allied products	516	515	517	518	519	522	527	528	529	528	526	528	531
Printing and publishing	632	631	632	635	636	639	642	642	642	640	639	641	643
Chemicals and allied products	591	591	596	600	602	606	610	610	612	609	608	607	611
Petroleum and coal products	132	132	133	132	135	137	137	138	137	137	138	139	141
Rubber and plastics products, nec	501	507	514	524	530	536	538	534	536	522	522	524	528
Leather and leather products	225	225	227	227	228	228	229	227	220	223	224	227	228
SERVICE-PRODUCING	36,366	36,532	36,620	36,731	36,868	36,954	37,017	37,091	37,234	37,333	37,438	37,439	37,591
TRANSPORTATION AND PUBLIC UTILITIES	3,865	3,904	3,882	3,878	3,886	3,893	3,903	3,903	3,885	3,890	3,918	3,899	3,911
WHOLESALE AND RETAIL TRADE	15,770	15,827	15,876	15,927	15,994	16,035	16,064	16,114	16,165	16,208	16,234	16,197	16,240
WHOLESALE TRADE	3,553	3,562	3,572	3,588	3,602	3,614	3,622	3,623	3,627	3,629	3,639	3,638	3,656
RETAIL TRADE	12,217	12,265	12,304	12,339	12,392	12,421	12,442	12,491	12,538	12,579	12,595	12,559	12,584
FINANCE, INSURANCE, AND REAL ESTATE	3,345	3,357	3,371	3,382	3,393	3,402	3,410	3,420	3,437	3,439	3,459	3,476	3,493
SERVICES	13,386	13,444	13,491	13,544	13,595	13,624	13,640	13,654	13,747	13,796	13,827	13,867	13,947

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

^P=preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

B-7. Indexes of diffusion: Percent of industries in which employment¹ increased, 1975 to date

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
1975				
January	15.1	12.8	12.8	16.6
February	15.7	12.8	11.9	17.4
March	25.6	18.6	17.7	17.7
April	39.0	32.3	28.2	20.6
May	51.2	43.9	41.6	27.0
June	40.7	52.3	56.7	40.7
July	58.1	57.0	67.2	50.6
August	73.0	76.2	70.1	63.1
September	80.8	81.7	75.3	72.4
October	66.9	74.1	82.3	77.3
November	62.2	72.4	83.4	80.2
December	74.1	74.7	81.7	82.6
1976				
January	78.5	82.0	83.1	86.0
February	77.9	84.3	81.7	84.6
March	74.1	85.2	79.9	81.1
April	79.4	77.9	79.4	74.4
May	66.6	71.5	70.9	79.7
June	54.1	61.0	68.6	79.1
July	57.3	52.9	57.0	74.1
August	47.1	62.5	57.3	74.7
September	69.8	56.7	63.7	78.5
October	42.4	62.8	69.8	76.5
November	69.5	58.7	73.5	75.0
December	73.0	79.9	78.5	74.7
1977				
January	75.0	79.7	89.0	75.9
February	73.5	86.0	86.6	75.6
March	82.3	85.8	83.1	78.2
April	77.6	84.0	80.5	78.2p
May	68.6	73.3	71.5	80.1p
June	63.7	70.1	68.0	
July	65.7	56.1	68.6p	
August	50.0	62.5	71.9p	
September	61.3	59.3p		
October	60.8p	70.8p		
November	69.9p			
December				
1978				
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				

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

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			Contract construction			Manufacturing		
	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P
1 ALABAMA	1,223.5	1,263.2	1,263.8	14.3	14.5	14.5	71.3	74.0	73.2	346.1	356.0	353.7
2 Birmingham	324.1	328.6	327.0	8.4	7.6	7.6	20.7	21.8	21.4	65.7	66.9	64.6
3 Huntsville	104.5	107.7	107.7	(1)	(1)	(1)	3.8	4.0	4.0	29.4	31.6	31.7
4 Mobile	135.2	136.8	136.6	(1)	(1)	(1)	10.8	10.9	10.6	28.2	27.0	27.0
5 Montgomery	89.9	92.8	93.3	(1)	(1)	(1)	5.8	6.0	6.0	13.8	14.6	14.8
6 Tuscaloosa	48.6	48.1	48.6	.7	.9	.9	3.3	3.3	3.2	10.8	10.0	10.1
7 ALASKA	177.0	155.5	151.9	4.2	5.3	4.8	33.2	13.7	12.8	11.7	11.5	11.2
8 ARIZONA	772.5	793.3	804.0	25.2	18.5	19.8	42.9	51.4	51.9	108.3	114.3	114.1
9 Phoenix	458.2	478.2	484.1	.5	.5	.5	24.3	30.6	30.9	79.2	84.9	85.1
10 Tucson	150.0	146.9	150.7	8.1	4.4	5.4	9.5	10.1	10.2	12.9	13.0	12.9
11 ARKANSAS	674.4	707.6	707.4	4.9	5.2	5.2	35.4	37.6	37.5	201.0	214.7	213.7
12 Fayetteville-Springdale	54.1	56.1	56.6	(1)	(1)	(1)	3.1	2.7	2.7	16.1	16.9	17.0
13 Fort Smith	60.9	62.9	62.0	.5	.5	.5	2.7	2.5	2.5	21.7	23.2	22.5
14 Little Rock-North Little Rock	159.4	165.2	166.2	(1)	(1)	(1)	9.5	9.7	9.9	28.8	31.3	31.2
15 Pine Bluff	27.2	27.5	27.9	(1)	(1)	(1)	1.2	1.1	1.1	5.8	6.2	6.3
16 CALIFORNIA	8,251.3	8,676.2	8,664.5	35.7	36.7	36.5	340.8	400.4	399.1	1,677.4	1,756.1	1,655.5
17 Anaheim-Santa Ana-Garden Grove	614.8	643.8	653.7	1.9	2.1	2.1	35.8	41.7	41.9	162.0	168.6	169.6
18 Bakersfield	108.5	110.6	111.4	8.7	8.9	8.9	4.6	5.0	5.0	9.1	9.1	9.4
19 Fresno	158.5	167.1	166.3	.8	.8	.8	7.8	9.3	9.1	22.0	24.3	23.0
20 Los Angeles-Long Beach	3,147.3	3,252.3	3,264.5	11.6	11.6	11.5	97.8	109.7	109.2	804.7	822.4	815.2
21 Modesto	79.2	90.4	84.5	.1	.1	.1	4.4	5.1	5.1	21.0	28.1	21.1
22 Oxnard-Simi Valley-Ventura	118.4	120.6	119.8	2.1	2.2	2.2	4.5	5.1	5.0	18.2	18.7	18.3
23 Riverside-San Bernardino-Ontario	345.5	359.4	363.4	2.5	2.6	2.6	13.0	15.0	14.8	54.3	54.2	54.2
24 Sacramento	338.9	356.8	357.9	.3	.3	.3	15.1	17.2	17.0	23.1	28.8	24.5
25 Salinas-Seaside-Monterey	77.0	80.6	80.9	.6	.6	.6	2.8	3.1	3.2	9.5	9.9	10.0
26 San Diego	501.0	525.5	529.4	.8	.8	.8	28.1	31.3	31.3	72.1	76.0	77.1
27 San Francisco-Oakland	1,376.9	1,403.4	1,403.8	2.3	2.3	2.4	60.1	63.7	63.8	187.3	194.4	188.2
28 San Jose	498.1	530.2	522.3	.1	.1	.1	18.6	20.0	19.9	164.7	179.7	169.6
29 Santa Barbara-Santa Maria-Lompoc	103.4	104.5	104.9	1.0	1.0	1.0	3.6	3.5	3.5	14.1	14.0	13.6
30 Santa Rosa	70.1	72.9	73.9	.4	.4	.4	3.8	4.2	4.1	10.5	10.8	11.1
31 Stockton	106.1	114.9	110.6	.1	.1	.1	4.0	4.4	4.3	19.4	25.8	19.7
32 Vallejo-Fairfield-Napa	87.0	89.0	89.5	.2	.2	.2	3.6	3.5	3.5	9.1	9.1	8.5
33 COLORADO	990.9	995.8	1,007.4	20.5	23.0	23.0	58.3	62.4	61.7	142.4	144.4	145.4
34 Denver-Boulder	626.3	633.8	638.1	8.0	9.8	9.8	37.4	42.2	41.8	96.1	98.2	98.1
35 CONNECTICUT	1,254.0	1,267.9	1,271.1	(3)	(3)	(3)	43.5	42.2	42.6	400.5	398.7	399.3
36 Bridgeport	147.6	145.2	146.4	(3)	(3)	(3)	4.3	3.2	3.2	58.4	58.2	58.5
37 Hartford	343.6	347.1	347.4	(3)	(3)	(3)	11.1	9.9	9.9	84.0	83.5	82.7
38 New Britain	55.1	56.6	56.8	(3)	(3)	(3)	2.1	2.2	2.2	25.6	26.9	27.1
39 New Haven-West Haven	172.0	172.4	172.4	(3)	(3)	(3)	5.4	4.5	4.7	42.8	42.9	43.0
40 Stamford	91.0	94.4	94.4	(3)	(3)	(3)	3.3	3.5	3.5	27.4	27.2	27.2
41 Waterbury	82.3	81.9	81.8	(3)	(3)	(3)	2.5	2.3	2.2	33.7	32.1	31.7
42 DELAWARE	237.6	238.9	240.3	(1)	(1)	(1)	14.3	14.5	14.7	69.5	70.9	70.9
43 Wilmington	207.6	209.1	210.7	(1)	(1)	(1)	12.7	13.7	13.9	64.5	65.4	65.5
44 DISTRICT OF COLUMBIA	574.2	575.1	576.5	(1)	(1)	(1)	17.1	18.6	18.4	15.7	15.5	15.6
45 Washington SMSA	1,367.6	1,389.9	1,397.3	(1)	(1)	(1)	73.6	78.8	77.9	49.6	50.7	50.7
46 FLORIDA	2,796.5	2,854.2	2,880.7	9.1	9.3	9.2	175.3	187.3	186.8	343.9	360.3	360.1
47 Fort Lauderdale-Hollywood	234.3	242.0	243.1	(1)	(1)	(1)	17.1	18.6	18.5	26.2	28.2	28.6
48 Jacksonville	258.6	264.5	264.4	(1)	(1)	(1)	14.5	15.7	15.8	29.3	30.1	29.8
49 Miami	583.2	586.5	592.5	(1)	(1)	(1)	23.6	23.9	23.9	85.3	87.8	88.8
50 Orlando	210.9	213.5	214.9	(1)	(1)	(1)	11.4	11.9	12.0	25.1	26.5	26.7
51 Pensacola	88.0	92.5	92.1	(1)	(1)	(1)	6.3	7.0	6.9	13.6	14.0	13.8
52 Tampa-St. Petersburg	418.5	423.6	(*)	(1)	(1)	(1)	27.5	28.6	(*)	56.9	58.9	(*)
53 West Palm Beach-Boca Raton	144.2	147.9	151.0	(1)	(1)	(1)	9.8	10.5	10.5	18.1	20.0	20.3
54 GEORGIA	1,885.3	1,939.6	1,947.0	6.5	7.3	7.2	86.7	100.0	101.0	486.2	499.0	497.3
55 Atlanta	782.3	794.2	796.9	(1)	(1)	(1)	32.0	34.3	34.0	128.3	129.7	130.5
56 Augusta	109.4	113.0	113.9	(1)	(1)	(1)	7.4	8.5	8.4	35.1	36.1	36.4
57 Columbus	73.6	77.2	77.7	(1)	(1)	(1)	4.1	4.1	4.2	19.9	21.0	21.1
58 Macon	93.5	93.7	93.4	(1)	(1)	(1)	5.1	5.2	5.3	16.3	16.8	16.0
59 Savannah	77.5	79.8	79.5	(1)	(1)	(1)	5.1	5.3	5.4	16.0	16.1	16.0
60 HAWAII	347.3	349.2	352.2	(1)	(1)	(1)	20.7	19.0	17.2	22.1	22.3	21.6
61 Honolulu	289.4	289.1	292.3	(1)	(1)	(1)	17.1	15.6	14.0	16.0	16.3	15.7

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

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	
64.0	67.6	67.5	248.6	258.5	258.3	53.1	55.5	55.2	178.0	183.7	183.4	248.1	253.4	258.0	1
24.2	25.0	25.0	77.9	79.2	79.2	20.8	21.0	21.0	56.5	57.1	57.1	49.9	50.0	51.1	2
2.3	2.4	2.4	20.1	20.5	20.4	2.8	2.9	2.9	15.2	15.6	15.5	30.9	30.7	30.8	3
9.9	10.6	10.3	32.6	33.4	33.6	6.1	6.5	6.5	26.3	26.5	26.5	21.3	21.9	22.1	4
4.3	4.3	4.4	21.0	22.4	22.7	5.2	5.4	5.3	16.6	16.8	16.8	23.2	23.3	23.3	5
1.8	1.8	1.8	8.9	8.9	9.0	1.5	1.6	1.5	5.1	5.2	5.2	16.5	16.4	16.9	6
16.3	16.3	15.4	28.6	26.2	25.5	7.6	8.0	7.9	28.7	25.6	24.7	46.7	48.9	49.6	7
39.4	40.8	41.1	185.7	189.8	191.0	43.0	44.6	44.8	146.4	151.6	153.1	181.6	182.3	188.2	8
23.6	24.7	24.9	120.7	123.6	124.8	33.1	34.4	34.6	88.1	89.7	91.2	88.7	89.8	92.1	9
7.5	7.6	7.6	33.3	33.4	33.6	5.9	6.1	6.1	30.3	30.6	30.7	42.5	41.7	44.2	10
39.5	39.8	39.1	143.4	151.1	151.1	28.5	30.8	30.7	56.2	100.5	100.6	125.5	127.9	129.5	11
3.0	2.8	2.8	12.4	13.4	13.5	1.9	2.1	2.1	7.1	7.5	7.6	10.5	10.7	10.9	12
3.4	3.3	3.3	13.2	13.5	13.5	2.2	2.3	2.3	10.1	10.5	10.4	7.1	7.1	7.1	13
11.1	11.2	11.3	37.5	38.0	38.4	11.6	12.3	12.3	27.9	29.4	29.3	33.0	33.3	33.8	14
3.4	3.4	3.5	5.5	5.5	5.7	1.2	1.2	1.2	3.9	4.0	4.0	6.2	6.1	6.1	15
469.8	487.9	484.9	1,901.4	2,015.8	2,024.7	475.1	499.5	498.3	1,628.6	1,729.2	1,728.9	1,722.5	1,750.6	1,796.6	16
18.9	20.0	20.0	149.3	159.8	159.6	33.8	36.7	37.0	115.3	121.6	121.1	97.8	93.3	102.4	17
7.0	6.9	7.0	27.0	27.9	27.9	3.9	3.9	3.9	17.5	18.2	18.2	30.7	30.7	31.1	18
9.4	5.4	9.4	42.8	46.1	45.4	7.8	8.2	8.2	28.0	29.4	29.4	39.9	39.6	41.0	19
175.0	183.6	181.1	723.0	755.4	761.0	169.4	198.9	198.8	660.0	688.3	690.9	485.8	482.4	496.8	20
3.4	3.6	3.6	18.0	19.9	20.4	2.1	2.3	2.3	13.5	13.8	13.9	16.7	17.5	18.0	21
4.6	4.7	4.7	27.8	28.2	28.2	4.5	4.6	4.6	20.4	20.6	20.5	36.3	36.5	36.3	22
19.1	20.2	20.4	82.6	84.9	85.5	13.5	13.9	14.0	70.8	73.4	74.7	89.7	95.2	97.2	23
17.7	18.5	18.3	78.3	82.9	83.2	15.3	16.4	16.4	57.1	59.9	60.4	132.0	132.8	137.8	24
4.3	4.6	4.6	19.7	20.8	20.7	3.3	3.4	3.4	15.0	15.6	15.5	21.8	22.6	22.9	25
23.1	24.4	24.2	116.4	122.7	123.4	26.6	28.3	28.5	102.0	109.2	106.3	131.9	132.8	137.8	26
120.1	121.5	120.1	310.0	315.7	316.7	116.1	118.1	117.4	280.4	287.7	288.3	300.6	300.0	306.9	27
18.2	15.3	19.1	98.8	105.0	105.3	20.2	21.2	21.3	102.7	109.0	110.3	74.8	75.9	76.7	28
3.4	3.4	3.4	25.0	25.3	25.3	4.4	4.4	4.4	24.7	25.2	25.2	27.2	27.7	28.5	29
3.4	3.7	3.7	17.0	18.0	18.0	3.7	4.0	4.0	13.0	13.7	13.6	18.3	18.1	19.0	30
7.6	8.2	7.9	25.2	25.7	26.5	4.1	4.3	4.3	19.7	20.6	20.8	26.0	25.8	27.0	31
4.1	4.2	4.1	16.0	16.9	16.8	2.6	2.8	2.8	15.0	15.2	16.0	36.4	37.1	37.2	32
61.0	63.6	63.7	235.2	238.1	238.7	59.8	61.3	61.1	195.2	194.9	193.7	218.4	208.0	220.1	33
40.5	43.1	43.1	155.0	155.9	157.0	44.4	45.3	45.3	126.9	123.7	125.0	117.9	115.4	118.0	34
53.3	53.9	54.1	260.2	265.7	266.3	87.9	90.4	90.4	231.8	244.6	242.9	176.9	172.3	175.5	35
5.7	5.4	5.5	29.5	29.3	29.6	6.0	5.9	6.0	26.1	25.8	25.9	17.5	17.4	17.8	36
12.9	13.3	13.0	73.5	74.2	74.7	50.2	52.4	52.5	61.5	63.3	63.8	50.6	50.6	50.9	37
1.5	1.4	1.4	9.3	9.4	9.4	1.6	1.6	1.6	8.5	8.4	8.4	6.7	6.8	6.7	38
13.7	13.7	13.8	36.6	37.2	36.9	9.6	9.8	9.7	40.1	41.1	40.9	23.9	23.3	23.5	39
3.1	3.3	3.3	20.7	21.9	22.3	6.0	6.4	6.4	20.2	21.4	21.2	10.3	10.5	10.7	40
3.0	3.0	3.0	14.7	15.4	15.3	2.8	3.0	3.0	14.9	15.8	15.9	10.7	10.4	10.8	41
12.0	12.3	12.3	51.4	51.7	52.3	11.0	11.0	11.1	38.1	38.4	38.6	41.3	40.1	40.4	42
10.6	10.8	10.8	42.7	42.4	43.1	10.1	9.9	10.0	33.0	33.7	33.9	34.0	33.2	33.5	43
29.2	29.2	29.1	66.1	67.2	67.3	33.5	32.4	32.4	148.6	149.1	149.7	264.0	263.1	264.0	44
64.9	66.6	66.1	266.9	273.2	275.4	78.1	79.6	79.6	322.5	330.7	331.3	512.0	510.3	516.3	45
178.1	190.3	185.0	722.5	733.7	742.5	187.8	191.3	190.8	611.6	614.0	629.9	568.2	568.0	576.4	46
13.0	13.5	13.3	65.9	64.8	65.4	19.2	21.1	21.1	54.1	55.8	56.3	38.8	40.0	39.9	47
21.0	21.5	21.2	68.9	71.4	71.7	26.3	26.3	26.3	48.1	48.5	48.4	50.5	51.0	51.2	48
58.3	55.1	59.4	147.2	149.7	151.3	42.9	43.3	43.4	142.9	138.9	141.0	83.0	83.8	84.7	49
11.5	11.7	11.7	59.2	59.0	59.6	14.0	14.3	14.2	54.6	55.4	55.2	35.1	34.7	35.5	50
4.2	4.6	4.3	20.6	21.8	21.9	3.6	3.7	3.7	15.5	16.7	16.6	24.2	24.7	24.9	51
26.5	27.0	(*)	118.5	117.5	(*)	28.9	29.9	(*)	90.8	91.0	(*)	69.4	70.7	(*)	52
6.6	6.6	6.7	37.8	38.6	39.3	10.8	11.4	11.5	35.3	34.9	36.3	25.8	25.9	26.4	53
119.3	122.2	121.9	436.5	443.2	443.3	100.1	100.9	100.8	283.6	295.5	295.3	366.4	371.4	380.1	54
69.4	71.2	71.6	222.2	223.7	224.4	57.5	57.3	57.3	144.3	145.6	145.7	128.5	132.2	133.4	55
4.1	4.1	4.1	18.6	19.4	19.8	3.7	3.7	3.8	13.5	14.0	14.1	27.0	27.1	27.2	56
2.9	3.0	3.0	15.6	15.9	16.0	4.5	4.8	4.8	9.8	10.4	10.3	16.7	18.1	18.3	57
4.2	4.2	4.2	17.0	16.3	16.5	5.5	5.4	5.5	14.9	15.8	15.7	30.4	29.9	30.2	58
8.1	6.6	7.9	18.4	18.6	18.8	3.7	3.8	3.8	12.6	13.0	13.1	13.6	14.5	14.5	59
27.2	26.1	28.4	88.6	90.3	90.6	24.7	24.9	24.8	80.5	84.7	85.7	83.5	79.9	83.9	60
22.6	23.2	23.5	75.0	75.6	75.9	21.8	22.1	22.0	65.4	69.0	69.8	71.5	67.3	71.4	61

**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			Contract construction			Manufacturing		
	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P
1 IDAHO	302.0	314.9	315.1	3.2	3.5	3.8	20.4	22.3	21.6	54.2	55.2	55.4
2 Boise City	68.3	72.0	72.4	(1)	(1)	(1)	5.6	5.9	5.9	6.8	7.2	7.2
3 ILLINOIS	4,515.9	4,609.6	4,625.6	27.2	27.9	27.8	188.6	193.3	190.1	1,201.6	1,230.6	1,223.6
4 Bloomington—Normal	47.1	49.0	50.1	(3)	(3)	(3)	1.4	1.4	1.4	6.9	8.0	8.2
5 Champaign—Urbana—Rantoul	67.3	65.6	68.2	(3)	(3)	(3)	3.3	3.5	3.3	6.4	6.4	6.4
6 Chicago—Gary	3,264.7	(*)	(*)	4.4	(*)	(*)	127.3	(*)	(*)	908.5	(*)	(*)
7 Chicago SMSA	3,026.6	3,101.5	3,110.6	4.3	4.4	4.3	113.1	126.5	125.0	810.0	831.7	836.7
8 Deavenport—Rock Island—Moline	146.9	154.5	154.7	(3)	(3)	(3)	6.4	6.0	6.0	42.9	50.7	50.6
9 Decatur	53.9	54.4	54.7	(3)	(3)	(3)	3.8	4.1	4.1	19.6	18.8	18.9
10 Peoria	146.8	146.5	147.6	(3)	(3)	(3)	9.3	9.4	9.4	51.1	49.8	50.4
11 Rockford	113.3	113.3	113.6	(3)	(3)	(3)	3.6	3.9	3.9	51.1	49.6	49.8
12 Springfield	79.7	80.6	80.7	(3)	(3)	(3)	4.7	4.5	4.5	8.4	9.1	9.1
13 INDIANA	2,039.9	2,096.5	2,101.0	8.5	8.5	8.4	86.6	88.5	89.3	691.2	715.0	712.7
14 Anderson	50.3	52.4	52.0	(1)	(1)	(1)	1.1	1.3	1.2	25.5	26.9	26.4
15 Evansville	111.3	113.4	113.6	2.4	2.4	2.3	5.3	5.7	5.8	34.6	36.0	36.0
16 Fort Wayne	159.1	164.0	163.6	(1)	(1)	(1)	6.9	6.7	6.8	56.9	60.1	60.0
17 Gary—Hammond—East Chicago	238.1	244.4	242.9	(1)	(1)	(1)	14.2	14.7	14.3	98.5	100.6	99.6
18 Indianapolis	464.3	482.5	482.4	(1)	(1)	(1)	18.4	19.3	19.4	117.7	126.0	126.1
19 Lafayette—West Lafayette	52.9	54.8	55.8	(1)	(1)	(1)	1.7	1.9	1.9	10.6	12.0	12.2
20 Muncie	47.0	48.5	49.7	(1)	(1)	(1)	1.8	1.9	1.8	13.7	14.9	14.8
21 South Bend	103.4	104.9	103.8	(1)	(1)	(1)	4.1	4.5	4.5	32.3	32.8	32.0
22 Terre Haute	58.4	60.3	60.7	1.2	1.2	1.2	2.2	2.4	2.4	15.6	16.6	16.7
23 IOWA	1,014.5	1,053.9	1,058.8	2.8	2.9	2.9	50.8	52.7	52.1	219.0	239.4	240.4
24 Cedar Rapids	75.4	76.4	77.2	(1)	(1)	(1)	2.9	3.2	3.4	28.0	28.5	28.6
25 Des Moines	157.0	162.0	162.6	(1)	(1)	(1)	7.3	7.7	7.9	22.3	23.0	23.0
26 Dubuque	35.4	41.4	41.4	(1)	(1)	(1)	1.2	1.2	1.3	11.2	16.5	16.4
27 Sioux City	50.7	49.5	50.1	(1)	(1)	(1)	3.8	4.5	4.8	12.3	10.5	10.6
28 Waterloo—Cedar Falls	50.4	59.6	60.3	(1)	(1)	(1)	2.2	2.4	2.5	12.3	21.5	21.9
29 KANSAS	844.5	866.1	864.5	10.8	11.3	11.9	43.8	46.2	45.3	168.2	169.2	167.4
30 Topeka	78.5	80.4	80.5	.2	.2	.2	3.4	3.6	3.6	10.5	11.0	11.0
31 Wichita	175.3	176.2	174.1	1.7	2.0	2.0	9.7	10.9	10.9	53.1	53.0	50.1
32 KENTUCKY	1,124.7	1,167.0	1,180.1	47.4	51.5	53.4	57.9	71.3	72.0	268.0	280.0	283.3
33 Lexington—Fayette	134.3	134.2	135.0	(1)	(1)	(1)	6.8	7.4	7.2	29.1	29.7	29.7
34 Louisville	354.1	370.7	373.0	(1)	(1)	(1)	15.6	17.3	16.7	99.8	106.3	108.8
35 LOUISIANA	1,318.1	1,316.2	1,313.1	62.6	64.8	64.8	121.2	114.9	114.5	193.4	198.8	200.4
36 Alexandria	46.0	46.5	47.1	(1)	(1)	(1)	3.0	2.8	2.8	6.3	6.1	6.5
37 Baton Rouge	173.1	174.7	175.3	1.0	.9	.9	22.9	21.8	21.8	24.2	24.8	25.0
38 Lafayette	53.1	54.7	54.0	8.4	8.9	8.8	3.3	3.6	3.6	3.3	3.3	3.2
39 Lake Charles	52.9	52.3	52.5	1.6	1.6	1.6	5.7	4.9	4.9	11.3	11.5	11.5
40 Monroe	44.0	44.0	43.9	.4	.3	.4	3.4	3.5	3.6	7.3	7.7	7.7
41 New Orleans	437.1	439.5	432.1	14.8	15.2	15.2	26.8	26.4	26.3	53.0	52.8	53.0
42 Shreveport	128.7	131.4	131.0	4.6	4.8	4.5	8.0	8.1	7.9	25.6	27.4	27.6
43 MAINE	382.5	397.9	396.1	(1)	(1)	(1)	24.6	25.0	24.8	102.7	108.3	108.4
44 Lewiston—Auburn	32.3	33.2	33.4	(1)	(1)	(1)	1.4	1.4	1.4	12.2	12.5	12.6
45 Portland	82.1	83.9	83.9	(1)	(1)	(1)	4.5	4.4	4.4	15.9	15.7	15.6
46 MARYLAND	1,525.6	1,545.3	1,555.9	1.7	1.8	1.7	98.9	102.6	102.2	234.9	238.3	236.2
47 Baltimore	861.6	870.7	877.8	(1)	(1)	(1)	47.3	50.4	50.1	162.5	164.0	163.1
48 MASSACHUSETTS	2,339.4	2,384.0	2,394.5	(1)	(1)	(1)	74.6	74.9	72.7	602.4	608.4	611.5
49 Boston	1,269.9	1,275.4	1,281.8	(1)	(1)	(1)	44.2	43.7	42.3	257.4	256.0	257.0
50 Brockton	50.9	51.8	52.7	-	-	-	1.7	1.7	1.7	11.6	12.0	12.1
51 Fall River	52.0	53.8	53.5	(1)	(1)	(1)	1.4	1.3	1.3	20.9	21.2	21.1
52 Lawrence—Haverhill	94.4	96.7	98.1	(1)	(1)	(1)	2.5	2.7	2.6	36.0	38.6	39.0
53 Lowell	62.2	63.4	64.3	(1)	(1)	(1)	2.5	2.6	2.5	20.7	22.1	22.3
54 New Bedford	59.8	62.0	61.9	(1)	(1)	(1)	1.5	1.6	1.6	24.1	25.3	25.1
55 Springfield—Chicopee—Holyoke	214.7	220.0	221.1	(1)	(1)	(1)	5.6	5.4	5.5	63.7	65.4	65.8
56 Worcester	148.4	150.2	151.6	(1)	(1)	(1)	3.9	3.8	3.7	44.5	44.6	44.9
57 MICHIGAN	3,316.9	3,461.6	(*)	13.1	10.1	(*)	116.3	141.4	(*)	1,066.0	1,127.1	(*)
58 Ann Arbor	119.4	126.0	130.0	(1)	(1)	(1)	2.8	3.2	3.1	34.1	41.1	41.8
59 Battle Creek	65.0	65.2	65.6	(1)	(1)	(1)	1.8	1.8	1.8	23.9	23.3	23.5
60 Bay City	34.7	35.3	35.8	(1)	(1)	(1)	1.4	1.7	1.8	10.8	10.9	11.1
61 Detroit	1,646.5	1,709.5	1,721.1	1.3	1.3	1.2	56.5	68.0	68.2	547.2	577.3	580.4
62 Flint	186.7	196.0	197.5	(1)	(1)	(1)	5.5	6.7	6.7	80.8	87.6	88.5
63 Grand Rapids	232.5	241.0	243.8	(1)	(1)	(1)	9.8	11.2	11.3	78.1	83.7	83.9

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			
OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	
17.6	18.4	18.3	75.7	77.1	78.3	15.9	16.4	16.4	49.0	53.3	52.4	66.0	68.7	68.9	1
4.1	4.3	4.3	18.4	19.1	19.3	5.3	5.9	5.9	11.4	12.2	12.3	16.7	17.4	17.5	2
277.7	281.0	281.2	1,041.9	1,060.5	1,066.2	257.1	266.9	266.9	810.6	837.9	840.0	711.1	711.7	729.8	3
3.1	3.1	3.1	10.9	11.5	11.6	6.6	6.9	6.9	7.0	7.1	7.0	11.1	11.0	11.9	4
2.6	2.6	2.6	14.9	14.4	14.6	2.0	2.1	2.1	9.3	9.7	9.7	28.8	27.0	29.6	5
201.4	(*)	(*)	760.0	(*)	(*)	201.8	(*)	(*)	615.3	(*)	(*)	446.0	(*)	(*)	6
187.4	188.6	188.5	716.8	734.9	737.8	193.9	196.8	196.4	584.5	598.9	600.1	416.5	419.8	421.8	7
7.6	7.6	7.6	37.6	38.3	38.3	6.3	6.3	6.3	20.3	20.6	20.5	25.8	25.0	25.3	8
4.2	4.3	4.3	9.8	10.3	10.5	2.3	2.4	2.4	9.3	9.3	9.3	5.1	5.3	5.3	9
7.8	8.0	8.0	32.5	33.0	32.9	6.7	6.9	6.9	24.4	25.2	25.6	15.0	14.2	14.3	10
4.6	5.1	5.1	22.6	23.0	23.2	3.3	3.4	3.4	16.2	16.4	16.3	11.9	11.9	11.9	11
5.1	5.0	5.0	15.8	15.8	16.0	6.6	6.7	6.6	13.9	14.3	14.3	25.2	25.3	25.3	12
101.6	104.2	104.7	439.2	454.8	455.0	91.1	92.2	92.0	285.8	291.4	289.5	336.0	341.9	349.5	13
1.4	1.3	1.3	9.1	9.2	9.3	1.5	1.6	1.6	6.1	6.2	6.2	5.6	5.9	6.0	14
6.0	6.2	6.2	26.2	26.7	26.8	3.8	3.9	3.9	20.9	20.9	20.9	12.1	11.6	11.7	15
10.2	10.3	10.3	37.2	38.0	37.8	8.9	9.3	9.2	23.6	24.2	24.2	15.4	15.4	15.3	16
14.0	14.6	14.6	43.2	45.5	45.3	7.9	8.2	8.2	30.8	31.2	31.3	29.5	29.6	29.6	17
28.6	29.1	29.2	112.0	115.2	115.4	32.8	33.6	33.4	72.4	73.9	73.9	82.4	85.4	85.0	18
1.5	1.5	1.5	10.2	10.7	10.7	2.5	2.7	2.7	7.4	7.6	7.6	19.0	18.4	19.2	19
1.9	1.9	1.9	10.6	11.6	11.6	1.4	1.5	1.5	6.8	6.9	7.0	10.8	9.8	11.1	20
4.9	5.1	5.0	24.0	24.5	24.5	4.9	4.7	4.7	21.5	21.5	21.5	11.7	11.8	11.6	21
4.0	3.9	3.9	13.7	14.3	14.3	1.9	1.9	1.9	8.2	8.4	8.4	11.6	11.6	11.9	22
55.0	55.2	55.2	256.3	262.3	263.0	47.6	49.4	49.3	185.7	192.3	191.1	197.3	199.5	204.9	23
3.7	3.7	3.7	15.3	15.4	15.4	3.5	3.6	3.6	13.1	13.4	13.5	8.9	8.6	8.9	24
10.6	10.5	10.6	41.3	41.6	41.9	17.4	18.3	18.3	31.2	33.1	33.2	26.9	27.7	27.7	25
1.6	1.6	1.6	8.2	8.5	8.6	1.1	1.1	1.1	8.7	9.1	9.0	3.5	3.4	3.4	26
3.6	3.4	3.4	12.1	11.8	11.8	2.5	2.5	2.5	10.0	10.2	10.4	6.4	6.5	6.6	27
2.2	2.1	2.1	12.7	12.5	12.6	1.6	1.7	1.7	8.9	9.4	9.2	10.4	9.9	10.3	28
56.8	58.6	58.2	205.7	212.2	212.1	40.4	41.6	41.6	144.0	150.6	150.2	174.8	175.9	177.8	29
7.1	7.2	7.2	17.3	17.7	17.6	5.6	5.6	5.6	14.1	14.6	14.8	20.5	20.5	20.5	30
8.6	9.0	8.9	38.4	38.0	37.8	8.9	9.0	9.0	31.9	32.4	32.4	23.1	21.9	23.0	31
61.4	63.7	64.1	242.3	254.2	255.6	43.0	46.2	46.5	180.0	180.5	183.1	224.7	219.6	222.1	32
5.8	6.1	5.9	30.6	32.3	32.0	5.9	6.0	6.0	23.7	23.3	24.7	32.4	29.4	29.5	33
22.5	22.7	22.7	79.8	82.7	82.7	19.3	20.8	20.9	65.1	68.5	68.5	52.1	52.3	52.6	34
100.9	101.5	95.4	299.5	297.6	297.7	61.0	61.8	62.0	222.5	222.9	224.2	257.0	253.9	254.1	35
2.5	2.4	2.4	10.5	10.6	10.7	2.5	2.5	2.5	8.6	8.6	8.6	12.6	13.5	13.6	36
8.5	8.3	8.5	34.4	33.6	33.5	9.4	9.9	10.2	25.0	25.6	25.6	47.7	45.8	49.8	37
4.1	4.3	4.3	14.2	14.2	14.3	1.8	1.9	1.9	9.4	10.0	9.6	8.6	8.5	8.3	38
3.1	3.3	3.1	11.3	11.6	11.7	2.2	2.3	2.3	8.7	8.6	8.6	9.0	8.5	8.8	39
2.4	2.3	2.3	11.6	11.4	11.2	3.1	3.2	3.2	6.7	6.7	6.6	9.1	8.9	8.9	40
44.7	44.8	36.6	111.1	112.3	112.5	26.8	26.9	26.9	91.2	92.9	93.2	68.7	68.2	68.4	41
9.4	9.2	9.3	32.5	33.4	33.4	5.8	5.8	5.9	22.3	21.8	21.8	20.5	20.9	20.6	42
17.7	18.3	17.9	80.4	85.3	84.1	14.7	15.2	15.0	65.4	68.0	65.9	77.0	77.8	80.0	43
1.2	1.1	1.1	7.3	7.7	7.6	1.3	1.4	1.4	5.9	6.1	6.2	3.0	3.0	3.1	44
4.7	5.1	5.1	21.9	22.6	22.5	6.6	6.7	6.6	15.8	16.4	16.2	12.7	13.0	13.5	45
77.6	80.2	78.4	368.4	373.3	377.2	80.2	82.6	82.2	292.1	302.3	300.9	371.8	364.2	377.1	46
53.9	56.7	54.9	197.6	200.1	202.4	49.2	50.1	50.1	161.8	165.6	166.4	189.3	183.8	190.8	47
111.3	112.8	112.8	528.9	546.6	542.6	134.6	136.3	135.5	520.5	536.5	545.1	367.1	368.5	374.3	48
67.0	67.6	67.3	295.9	298.9	300.5	92.7	94.7	94.3	321.6	324.1	327.8	191.1	190.4	192.6	49
3.8	4.0	4.0	14.3	14.4	14.5	1.7	1.8	1.9	8.1	8.4	8.6	9.7	9.5	9.9	50
1.9	1.9	1.9	10.9	11.5	11.5	2.3	2.4	2.3	8.9	9.3	9.1	5.7	6.2	6.3	51
3.5	3.6	3.6	19.4	19.5	19.6	3.5	3.5	3.6	13.9	13.8	14.1	15.6	15.0	15.6	52
3.1	3.1	3.1	13.8	13.7	14.0	1.9	1.8	1.9	9.9	10.0	10.1	10.3	10.1	10.4	53
2.5	2.6	2.6	12.0	12.1	12.1	1.7	1.8	1.8	10.0	10.6	10.5	8.0	8.0	8.2	54
9.1	8.9	9.0	44.3	45.1	44.5	10.6	10.9	11.0	37.9	41.2	40.5	43.5	43.1	44.8	55
7.1	6.7	6.7	32.1	32.7	32.9	8.0	8.1	8.1	28.2	29.0	29.5	24.6	25.3	25.8	56
143.4	148.2	(*)	684.1	707.4	(*)	137.4	141.0	(*)	550.9	578.2	(*)	605.7	608.2	(*)	57
2.2	2.3	2.2	17.0	17.9	18.1	3.4	3.6	3.6	17.5	17.8	18.2	42.3	40.1	43.0	58
2.1	2.1	2.1	10.6	10.7	10.8	3.5	3.5	3.5	10.8	11.4	11.4	12.3	12.4	12.5	59
1.8	2.1	2.1	8.7	8.6	8.6	1.1	1.1	1.1	5.9	6.0	6.1	5.0	4.9	5.0	60
80.9	81.5	80.5	329.9	340.0	341.6	79.7	82.1	81.5	296.9	311.0	313.1	254.2	248.4	254.7	61
5.9	6.1	6.1	36.8	37.3	37.0	5.1	5.5	5.5	24.5	26.7	26.5	28.1	26.1	27.2	62
9.4	9.6	9.6	55.2	55.5	56.5	8.2	8.5	8.5	42.8	42.6	43.8	28.9	29.9	30.2	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			Contract construction			Manufacturing		
	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P
MICHIGAN—Continued												
1 Jackson	49.9	51.7	51.4	(1)	(1)	(1)	1.7	1.9	1.9	15.4	16.0	15.7
2 Kalamazoo—Portage	102.2	105.7	105.9	(1)	(1)	(1)	4.2	4.4	4.3	34.0	35.5	35.3
3 Lansing—East Lansing	176.4	174.4	185.0	(1)	(1)	(1)	5.6	5.8	5.5	39.7	42.4	43.3
4 Muskegon—Norton Shores—Musk. Hts.	58.6	61.0	60.3	(1)	(1)	(1)	2.5	2.8	2.7	22.2	22.6	22.4
5 Saginaw	83.6	88.1	88.8	(1)	(1)	(1)	2.6	2.8	2.8	33.6	36.8	36.9
MINNESOTA	1,545.1	1,571.5	1,583.7	15.6	5.9	5.6	72.1	77.6	76.9	320.9	340.7	336.8
7 Duluth—Superior	57.1	56.4	56.0	(1)	(1)	(1)	2.6	2.2	2.1	7.6	7.3	7.3
8 Minneapolis—St. Paul	919.2	942.9	954.4	(1)	(1)	(1)	36.3	40.2	40.4	205.5	218.3	218.2
MISSISSIPPI	737.7	770.3	773.5	7.2	8.0	7.9	42.0	44.2	44.8	220.2	230.1	230.2
10 Jackson	123.5	125.1	125.3	1.0	1.1	1.1	7.2	7.3	7.3	18.3	18.4	18.1
MISSOURI	1,800.8	1,846.3	1,850.9	8.7	9.3	9.3	76.4	82.0	81.9	422.6	444.1	443.9
12 Kansas City	564.0	580.1	582.3	.6	.6	.6	23.6	23.7	24.7	111.6	120.3	121.1
13 St. Joseph	36.6	36.3	36.2	(3)	(3)	(3)	2.4	2.1	1.8	9.3	9.3	9.2
14 St. Louis	927.3	938.4	938.3	2.7	2.7	2.7	38.5	39.6	38.2	244.0	251.5	251.1
15 Springfield	75.8	77.8	77.5	.1	.1	.1	3.6	3.7	3.6	17.9	18.7	17.8
MONTANA	254.6	276.7	(*)	5.8	5.7	(*)	15.5	16.3	(*)	25.2	24.9	(*)
17 Billings	41.0	43.3	(*)	(1)	(1)	(*)	2.3	2.5	(*)	4.0	3.4	(*)
18 Great Falls	26.9	29.2	(*)	(1)	(1)	(*)	2.0	1.9	(*)	1.7	1.6	(*)
NEBRASKA	585.4	590.6	590.4	1.8	2.0	1.9	30.3	27.8	27.8	91.8	90.7	91.5
20 Lincoln	92.8	96.3	95.1	-	-	-	4.4	4.0	4.1	13.5	14.3	14.3
21 Omaha	242.8	246.6	247.7	(3)	(3)	(3)	11.8	11.3	11.6	34.4	35.8	36.0
NEVADA	288.7	313.1	314.5	3.3	3.4	3.5	15.6	18.8	19.1	13.2	14.0	14.1
23 Las Vegas	157.9	169.9	170.5	.2	.2	.2	7.8	9.6	9.7	5.3	5.5	5.5
24 Reno	83.5	90.0	90.2	.4	.4	.4	5.4	6.4	6.6	5.6	5.9	5.9
NEW HAMPSHIRE	321.1	343.4	345.7	.5	.5	.5	15.9	19.2	18.9	96.5	101.8	102.5
26 Manchester	62.0	67.8	68.5	(3)	(3)	(3)	2.9	3.5	3.4	18.1	19.2	19.4
27 Nashua	47.0	50.5	50.7	(3)	(3)	(3)	1.7	2.4	2.4	21.7	22.9	22.9
NEW JERSEY	2,763.7	2,827.7	2,838.1	2.7	3.2	3.1	100.4	106.4	107.7	757.9	770.2	772.4
29 Atlantic City	64.7	70.6	(*)	-	-	(*)	3.3	4.0	(*)	8.5	8.1	(*)
30 Camden	291.9	(*)	(*)	.1	(*)	(*)	12.8	(*)	(*)	65.7	(*)	(*)
31 Hackensack	355.7	365.8	(*)	(1)	(1)	(*)	13.0	17.0	(*)	102.8	106.6	(*)
32 Jersey City	232.8	228.2	(*)	-	-	(*)	4.8	4.6	(*)	74.5	73.9	(*)
33 Long Branch—Asbury Park	140.8	145.8	(*)	(1)	(1)	(*)	5.8	6.4	(*)	22.0	23.3	(*)
34 New Bruns.—Perth Amboy—Sayreville	244.6	251.4	(*)	(1)	(1)	(*)	9.1	9.6	(*)	81.1	83.7	(*)
35 Newark	859.6	(*)	(*)	1.0	(*)	(*)	30.1	(*)	(*)	239.5	(*)	(*)
36 Paterson—Clifton—Passaic	180.3	(*)	(*)	(1)	(*)	(*)	6.0	(*)	(*)	65.1	(*)	(*)
37 Trenton	152.2	155.6	(*)	(1)	(1)	(*)	3.1	3.2	(*)	37.8	38.2	(*)
38 Vineland—Millville—Bridgeton	52.9	53.6	(*)	(1)	(1)	(*)	1.5	1.5	(*)	19.6	19.5	(*)
NEW MEXICO	394.4	420.7	421.8	21.7	23.8	23.9	25.2	30.1	30.3	30.8	31.7	31.9
40 Albuquerque	159.0	168.5	169.2	(1)	(1)	(1)	10.0	12.0	12.0	16.4	16.4	16.7
NEW YORK	6,791.4	6,816.0	(*)	7.6	7.6	(*)	199.6	191.7	(*)	1,461.3	1,463.0	(*)
42 Albany—Schenectady—Troy	311.7	313.7	(*)	(1)	(1)	(*)	11.0	11.0	(*)	62.0	61.9	(*)
43 Binghamton	108.6	111.5	(*)	(1)	(1)	(*)	4.5	4.9	(*)	39.2	40.3	(*)
44 Buffalo	495.3	503.2	(*)	(1)	(1)	(*)	20.6	20.1	(*)	144.9	145.9	(*)
45 Elmira	38.0	37.3	(*)	(1)	(1)	(*)	1.9	1.8	(*)	12.7	11.7	(*)
46 Monroe County	320.6	318.5	(*)	(1)	(1)	(*)	10.2	10.6	(*)	128.4	126.7	(*)
47 Nassau—Suffolk	759.0	814.3	(*)	(1)	(1)	(*)	29.7	28.2	(*)	144.0	147.9	(*)
48 New York—Northeastern New Jersey	6,243.9	6,266.2	(*)	3.5	3.6	(*)	173.7	175.5	(*)	1,340.9	1,344.9	(*)
49 New York and Nassau—Suffolk	4,371.0	4,367.8	(*)	2.0	2.0	(*)	110.7	109.2	(*)	777.5	773.3	(*)
50 New York SMSA	3,572.0	3,553.5	(*)	1.9	1.9	(*)	81.0	80.9	(*)	633.9	625.4	(*)
51 New York City	3,181.5	3,155.9	(*)	1.7	1.7	(*)	65.7	65.5	(*)	553.1	542.9	(*)
52 Poughkeepsie	86.7	88.5	(*)	(1)	(1)	(*)	3.0	3.5	(*)	28.0	29.0	(*)
53 Rochester	394.7	392.6	(*)	(1)	(1)	(*)	12.4	12.5	(*)	149.3	148.2	(*)
54 Rockland County	71.8	74.4	(*)	(1)	(1)	(*)	1.8	1.6	(*)	14.4	14.7	(*)
55 Syracuse	242.2	247.6	(*)	(1)	(1)	(*)	10.5	10.3	(*)	56.2	58.6	(*)
56 Utica—Rome	112.5	112.7	(*)	(1)	(1)	(*)	3.8	3.8	(*)	30.6	30.3	(*)
57 Westchester County	307.7	312.5	(*)	(1)	(1)	(*)	12.8	13.2	(*)	65.2	66.7	(*)
NORTH CAROLINA	2,074.1	2,138.7	2,152.0	4.7	5.0	4.9	104.7	104.9	105.1	768.6	799.6	802.8
59 Asheville	62.4	65.3	65.5	(1)	(1)	(1)	3.3	3.3	3.4	20.1	20.7	20.7
60 Charlotte—Gastonia	279.7	287.9	288.1	(1)	(1)	(1)	14.5	14.9	14.7	80.0	82.4	82.4
61 Greensboro—Winston-Salem—High Pt.	344.6	353.1	355.2	(1)	(1)	(1)	15.2	15.6	15.4	137.4	140.4	140.8

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			
OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	
4.3	4.4	4.4	9.8	9.9	9.9	1.5	1.5	1.5	8.6	9.1	9.1	8.6	8.9	8.9	1
3.3	3.5	3.5	19.1	19.8	19.8	3.4	3.5	3.5	17.1	17.8	17.8	20.9	21.2	21.7	2
4.1	4.4	4.4	32.5	32.9	33.8	8.0	8.4	8.4	23.7	24.3	24.5	62.8	56.2	65.1	3
2.9	3.1	3.0	10.6	11.4	11.2	1.7	1.7	1.7	8.6	8.9	8.7	10.1	10.5	10.6	4
3.9	4.0	4.1	17.0	17.4	17.6	3.7	3.8	3.8	11.6	11.8	11.9	11.2	11.5	11.7	5
93.0	94.0	95.1	392.3	404.1	405.3	78.6	80.2	80.4	299.3	307.0	309.2	273.3	262.0	274.5	6
6.8	6.3	6.3	15.0	14.7	15.1	2.1	2.1	2.1	11.6	11.5	11.9	11.5	12.2	11.1	7
59.0	59.5	59.4	234.7	240.6	243.1	57.9	58.6	58.7	187.0	192.4	194.1	138.9	133.2	140.6	8
35.6	36.2	36.5	143.9	152.2	153.0	29.0	30.1	30.2	103.2	107.5	108.3	156.6	161.9	162.6	9
7.6	7.8	7.8	28.2	28.4	28.4	9.5	9.8	9.8	24.6	24.5	24.7	27.4	27.9	28.0	10
126.7	130.2	130.3	426.5	429.9	429.6	94.9	96.0	95.8	327.0	338.2	336.8	318.0	316.6	323.3	11
50.1	51.4	51.2	145.6	148.7	148.4	36.8	37.1	37.3	111.5	113.5	112.6	84.2	84.8	86.4	12
2.8	2.6	2.6	8.5	8.9	8.9	1.7	1.8	1.8	6.3	5.9	5.9	5.6	5.7	6.0	13
63.6	66.2	66.1	210.7	209.7	209.0	49.6	50.2	49.9	183.8	184.9	183.8	134.4	133.6	137.5	14
5.5	5.7	5.6	20.3	21.3	21.3	2.9	2.9	2.9	14.7	14.9	15.5	10.8	10.5	10.7	15
19.4	20.4	(*)	64.1	70.6	(*)	10.7	11.5	(*)	48.1	52.3	(*)	65.8	75.0	(*)	16
3.1	3.3	(*)	14.0	15.2	(*)	1.9	2.0	(*)	7.6	8.0	(*)	8.1	8.9	(*)	17
1.8	1.9	(*)	8.2	8.7	(*)	1.6	1.7	(*)	5.7	7.0	(*)	5.9	6.4	(*)	18
41.8	42.5	42.5	155.4	155.1	155.8	36.2	37.9	38.1	108.4	111.2	111.8	119.7	123.3	121.0	19
6.0	6.1	6.0	20.2	20.9	20.9	6.2	6.4	6.4	16.0	16.1	15.9	26.5	28.4	27.5	20
21.9	22.4	22.4	61.5	59.8	60.4	19.6	21.2	21.3	51.5	52.2	52.1	41.8	43.9	43.9	21
18.1	18.6	18.7	58.9	63.6	64.5	11.6	12.6	12.6	120.6	132.1	130.7	47.4	50.0	51.3	22
10.0	10.3	10.3	32.1	34.1	34.3	6.2	6.8	6.8	75.7	81.1	80.9	20.6	22.3	22.8	23
6.0	6.2	6.3	18.8	20.6	20.2	4.4	4.7	4.7	28.8	32.0	31.5	14.1	13.8	14.6	24
12.3	12.6	12.6	69.6	77.3	77.0	15.3	16.3	16.4	59.7	63.3	63.5	51.3	52.4	54.3	25
3.8	4.1	4.1	14.5	16.8	17.2	4.3	4.7	4.7	11.4	11.9	12.0	7.0	7.6	7.7	26
1.7	1.8	1.9	5.3	9.8	9.9	1.6	1.7	1.7	6.5	7.0	7.0	4.5	4.9	4.9	27
177.0	179.8	175.9	623.1	649.9	643.3	139.2	144.5	144.9	498.8	515.4	515.5	464.6	458.3	475.3	28
3.3	3.6	(*)	17.1	20.0	(*)	4.4	4.8	(*)	14.8	16.9	(*)	13.3	13.2	(*)	29
15.0	(*)	(*)	77.3	(*)	(*)	13.9	(*)	(*)	52.2	(*)	(*)	54.9	(*)	(*)	30
18.0	16.8	(*)	103.5	106.7	(*)	14.0	14.0	(*)	65.1	67.8	(*)	39.3	36.9	(*)	31
30.0	30.7	(*)	42.7	42.3	(*)	8.6	8.8	(*)	29.6	27.9	(*)	42.6	40.0	(*)	32
5.5	5.5	(*)	34.9	36.5	(*)	5.5	6.4	(*)	34.8	35.9	(*)	32.3	31.8	(*)	33
16.7	16.9	(*)	53.1	54.3	(*)	8.7	8.7	(*)	32.5	34.3	(*)	43.4	43.9	(*)	34
63.2	(*)	(*)	165.8	(*)	(*)	59.1	(*)	(*)	163.7	(*)	(*)	137.2	(*)	(*)	35
7.1	(*)	(*)	39.7	(*)	(*)	8.8	(*)	(*)	28.0	(*)	(*)	25.6	(*)	(*)	36
5.2	5.0	(*)	23.3	22.8	(*)	5.9	6.3	(*)	37.4	38.5	(*)	39.5	41.6	(*)	37
3.1	2.9	(*)	8.1	8.4	(*)	2.4	2.5	(*)	7.6	7.7	(*)	10.6	11.1	(*)	38
23.8	25.0	25.3	93.3	99.4	98.3	17.3	17.8	17.9	74.0	81.4	81.3	108.3	111.5	112.9	39
8.7	9.3	9.4	41.6	44.1	43.7	8.7	9.0	9.0	36.5	38.8	39.0	37.1	38.6	39.4	40
429.9	424.3	(*)	1,411.5	1,412.2	(*)	575.0	577.4	(*)	1,479.1	1,488.4	(*)	1,227.5	1,251.4	(*)	41
14.8	14.6	(*)	61.2	61.5	(*)	13.8	13.9	(*)	60.9	61.7	(*)	87.9	89.0	(*)	42
4.3	4.3	(*)	19.2	20.3	(*)	3.5	3.6	(*)	15.4	15.7	(*)	22.5	22.4	(*)	43
27.1	27.0	(*)	108.8	113.3	(*)	20.6	21.5	(*)	89.7	88.4	(*)	83.7	87.0	(*)	44
1.3	1.3	(*)	8.2	8.4	(*)	1.0	1.0	(*)	6.4	6.4	(*)	6.5	6.7	(*)	45
10.1	9.7	(*)	59.6	61.1	(*)	14.1	14.6	(*)	60.5	60.2	(*)	37.8	35.6	(*)	46
35.1	34.7	(*)	212.2	220.1	(*)	44.0	44.9	(*)	171.4	175.5	(*)	162.7	163.1	(*)	47
456.0	446.2	(*)	1,333.9	1,337.6	(*)	576.2	578.4	(*)	1,348.7	1,357.2	(*)	1,011.0	1,022.8	(*)	48
321.0	311.8	(*)	929.1	928.3	(*)	477.0	473.4	(*)	1,030.3	1,028.1	(*)	722.8	736.8	(*)	49
286.0	277.1	(*)	716.9	708.1	(*)	433.0	433.5	(*)	859.1	852.7	(*)	560.1	573.8	(*)	50
264.9	256.4	(*)	625.5	614.7	(*)	414.6	414.4	(*)	767.6	758.9	(*)	488.5	501.3	(*)	51
2.9	2.9	(*)	14.7	14.5	(*)	2.5	2.4	(*)	15.6	15.4	(*)	20.0	20.9	(*)	52
12.8	12.4	(*)	75.5	77.9	(*)	15.9	16.1	(*)	71.0	70.2	(*)	57.8	55.3	(*)	53
3.4	3.6	(*)	15.5	15.6	(*)	2.1	2.1	(*)	15.6	16.0	(*)	19.1	20.8	(*)	54
13.8	14.1	(*)	54.0	56.6	(*)	14.3	14.7	(*)	47.7	46.7	(*)	45.6	46.5	(*)	55
3.9	3.9	(*)	20.9	21.4	(*)	5.2	5.4	(*)	19.3	19.4	(*)	28.8	28.6	(*)	56
17.0	16.5	(*)	73.2	75.0	(*)	16.0	16.6	(*)	73.8	75.7	(*)	49.6	48.8	(*)	57
94.7	99.8	100.0	401.0	410.3	412.6	82.4	83.1	83.3	285.0	294.4	295.6	333.0	341.6	347.7	58
3.4	3.5	3.5	12.6	12.9	13.1	2.6	2.8	2.8	10.7	10.7	10.5	9.7	11.4	11.5	59
25.2	26.6	26.6	66.9	68.0	68.3	17.5	18.4	18.5	41.1	42.7	42.4	34.5	34.9	35.2	60
13.4	20.1	20.3	68.6	70.2	70.7	14.8	15.4	15.5	46.4	48.1	48.4	42.8	43.3	44.1	61

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			Contract construction			Manufacturing		
	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P
NORTH CAROLINA—Continued												
1 Raleigh-Durham	219.6	226.3	229.0	(1)	(1)	(1)	10.8	11.5	11.5	36.0	37.1	37.3
NORTH DAKOTA												
2 Fargo-Moorhead	221.8	229.0	230.3	2.7	3.0	3.0	18.3	20.6	20.2	16.7	15.3	15.6
3	58.4	58.3	60.4	(3)	(3)	(3)	4.6	4.7	4.8	5.4	4.9	5.2
OHIO	4,140.0	4,257.5	4,272.7	28.9	29.3	29.1	168.5	169.3	167.8	1,287.7	1,352.7	1,349.1
5 Akron	254.0	255.7	260.0	.3	.3	.3	7.7	7.4	7.3	83.6	84.4	84.3
6 Canton	147.5	152.1	152.1	.8	.8	.8	6.3	6.2	6.1	54.3	56.6	56.4
7 Cincinnati	543.6	556.5	557.5	.4	.4	.4	24.1	24.1	23.7	154.3	160.5	160.9
8 Cleveland	858.9	884.2	886.5	1.5	1.5	1.5	31.8	31.1	31.4	256.5	273.0	274.2
9 Columbus	463.0	472.2	479.6	.7	.7	.7	19.3	19.1	19.0	94.9	98.4	98.6
10 Dayton	336.0	344.0	346.2	.4	.4	.4	12.4	12.0	12.0	105.5	109.1	108.9
11 Toledo	290.2	294.8	300.4	.6	.6	.6	12.5	12.9	12.7	86.6	88.8	89.4
12 Youngstown-Warren	205.2	210.6	210.5	.3	.3	.3	7.1	7.0	6.7	80.8	83.1	83.6
OKLAHOMA	945.6	990.9	996.5	45.9	51.5	51.6	44.8	48.5	48.3	159.7	165.7	166.5
14 Oklahoma City	320.0	346.8	347.9	10.1	11.4	11.5	14.9	22.4	22.2	42.4	46.3	47.0
15 Tulsa	247.8	255.4	255.9	16.3	16.7	16.7	15.9	15.9	15.9	53.1	54.1	54.2
OREGON	900.2	928.0	929.4	1.6	1.6	1.5	41.6	39.8	39.9	203.0	212.4	208.0
17 Eugene-Springfield	90.7	96.9	98.9	(1)	(1)	(1)	3.8	5.4	5.3	20.1	21.3	20.5
18 Jackson County	-	-	-	-	-	-	-	-	-	7.6	8.2	8.2
19 Portland	471.1	484.0	488.4	(1)	(1)	(1)	21.9	19.9	19.9	97.2	101.7	100.8
20 Salem	77.4	80.0	(*)	(1)	(1)	(*)	3.8	4.1	(*)	16.0	17.9	(*)
PENNSYLVANIA	4,519.9	4,546.6	4,556.0	48.9	48.6	48.3	195.8	200.1	200.6	1,335.2	1,341.2	1,340.7
22 Allentown-Bethlehem-Easton	259.2	257.3	259.8	(1)	(1)	(1)	9.8	9.6	9.8	108.6	108.6	108.4
23 Altoona	51.0	52.6	52.9	(1)	(1)	(1)	2.3	2.4	2.4	12.9	13.3	13.4
24 Delaware Valley	1,510.1	1,499.4	1,505.9	(1)	(1)	(1)	52.9	53.5	53.2	382.0	378.4	379.4
25 Erie	110.8	112.9	112.6	(1)	(1)	(1)	3.6	3.5	3.5	42.8	44.8	44.3
26 Harrisburg	203.3	205.3	205.7	(1)	(1)	(1)	9.3	8.4	8.5	39.6	39.7	39.5
27 Johnstown	88.0	85.7	86.7	9.4	8.8	8.9	3.4	4.4	4.4	21.0	18.6	18.7
28 Lancaster	136.1	138.1	139.9	(1)	(1)	(1)	7.1	7.2	7.0	54.7	56.1	56.5
29 Northeast Pennsylvania	232.6	232.3	232.4	1.2	1.4	1.3	13.7	14.0	14.2	71.5	69.9	69.8
30 Philadelphia SMSA	1,802.2	1,797.4	1,805.1	(1)	(1)	(1)	65.7	65.5	65.2	447.9	445.8	447.4
31 Philadelphia City	805.6	796.6	798.3	(1)	(1)	(1)	17.9	17.6	17.2	159.5	159.5	160.3
32 Pittsburgh	901.9	907.1	905.2	11.7	11.8	11.8	46.2	48.5	49.1	245.6	245.7	241.1
33 Reading	131.7	131.9	133.2	(1)	(1)	(1)	4.6	5.1	5.0	51.0	51.6	52.0
34 Scranton	82.3	83.9	82.8	(1)	(1)	(1)	3.0	2.9	3.0	26.3	26.5	26.4
35 Wilkes-Barre-Hazleton	123.8	121.8	123.2	1.1	1.2	1.2	9.4	9.6	9.8	40.4	39.1	38.8
36 Williamsport	44.8	45.6	46.0	(1)	(1)	(1)	1.4	1.8	1.8	17.2	17.5	17.5
37 York	141.0	142.2	143.7	(1)	(1)	(1)	6.3	6.6	6.5	59.1	59.5	60.5
RHODE ISLAND	375.8	378.7	380.2	(1)	(1)	(1)	13.6	14.0	13.4	126.8	127.3	129.0
39 Providence-Warwick-Pawtucket	388.1	391.0	392.9	(1)	(1)	(1)	14.1	14.5	13.9	142.4	142.1	144.0
SOUTH CAROLINA	1,051.2	1,088.4	1,089.8	1.8	1.8	1.8	62.7	61.7	62.1	374.6	379.1	378.5
41 Charleston-North Charleston	123.0	127.5	127.7	(1)	(1)	(1)	9.7	10.6	10.7	17.5	18.3	18.3
42 Columbia	151.1	159.0	160.8	(1)	(1)	(1)	7.0	7.3	7.2	23.0	24.0	24.0
43 Greenville-Spartanburg	232.5	234.0	234.2	(1)	(1)	(1)	12.6	13.0	13.1	101.3	100.2	99.6
SOUTH DAKOTA	224.3	229.3	(*)	2.6	2.6	(*)	13.1	13.4	(*)	23.0	23.1	(*)
45 Rapid City	25.7	26.4	(*)	(3)	(3)	(*)	2.3	2.3	(*)	2.2	2.3	(*)
46 Sioux Falls	48.2	50.5	(*)	(3)	(3)	(*)	2.9	3.4	(*)	6.8	7.2	(*)
TENNESSEE	1,549.7	1,668.6	1,682.5	9.3	9.4	9.3	79.6	87.3	88.3	489.6	519.8	522.2
48 Chattanooga	160.1	164.3	164.6	1.1	1.0	1.0	6.3	6.7	6.8	55.3	57.3	57.2
49 Knoxville	181.2	186.4	187.1	1.7	1.8	1.7	10.3	12.7	12.7	50.0	51.6	51.7
50 Memphis	332.7	337.9	339.9	.2	.2	.2	15.7	17.0	17.2	58.6	60.4	60.8
51 Nashville-Davidson	320.9	329.3	331.5	(1)	(1)	(1)	17.9	18.0	18.0	77.3	80.3	81.1
TEXAS	4,756.4	4,890.0	4,911.2	140.9	155.8	156.3	323.7	332.3	332.9	871.9	895.7	897.3
53 Amarillo	66.7	68.5	68.8	(1)	(1)	(1)	4.4	4.8	4.8	8.8	8.4	8.5
54 Austin	176.4	182.6	184.9	(1)	(1)	(1)	8.8	8.9	9.2	17.9	19.6	19.8
55 Beaumont-Port Arthur-Orange	137.5	137.7	138.0	(1)	(1)	(1)	15.8	14.7	14.5	40.9	41.5	41.7
56 Corpus Christi	102.8	105.1	105.4	3.7	3.8	3.7	10.9	10.8	11.1	12.5	12.0	12.1
57 Dallas-Fort Worth	1,132.7	1,173.9	1,179.2	12.6	13.3	13.3	51.3	50.7	50.8	248.5	256.6	257.9
58 El Paso	136.6	137.4	(*)	(1)	(1)	(*)	6.2	6.8	(*)	29.9	29.2	(*)
59 Galveston-Texas City	67.2	72.5	72.4	(1)	(1)	(1)	7.3	9.3	9.6	11.8	11.7	11.7
60 Houston	1,112.6	1,166.1	1,176.5	45.9	49.0	48.9	116.5	126.4	127.1	137.8	191.0	189.5
61 Lubbock	80.0	84.2	85.4	(1)	(1)	(1)	4.7	4.4	4.4	11.8	14.4	14.6
62 San Antonio	330.2	335.6	336.8	1.7	1.8	1.8	18.3	19.8	19.8	41.4	42.7	43.2

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			
OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	
9.5	10.2	10.2	42.7	44.0	44.4	13.2	13.8	13.8	45.8	47.7	48.3	61.6	62.0	63.5	1
13.5	13.8	13.8	61.9	65.7	65.8	9.2	9.9	9.9	42.0	43.0	43.0	57.5	57.7	59.0	2
3.6	3.6	3.6	17.6	18.5	19.0	3.2	3.5	3.5	12.0	11.7	12.4	12.0	11.4	11.9	3
215.8	215.0	215.3	904.3	929.4	928.7	177.4	183.4	182.4	719.9	757.8	752.4	637.5	620.5	648.0	4
14.2	13.9	14.0	55.7	57.8	57.6	8.5	9.0	8.9	43.5	45.5	45.0	40.6	37.4	42.7	5
7.0	6.9	7.0	31.6	32.9	32.6	5.2	5.6	5.5	25.4	25.8	26.1	16.9	17.4	17.6	6
31.1	30.9	31.1	125.8	129.6	130.7	28.7	28.9	28.5	101.5	106.4	105.6	77.8	75.6	76.2	7
46.9	44.4	44.5	199.0	204.2	204.0	44.2	45.6	45.3	163.2	168.5	168.3	115.9	115.9	117.4	8
22.5	22.9	22.9	111.4	114.8	116.0	30.8	32.2	32.1	86.3	89.8	90.4	97.0	94.4	99.9	9
12.5	12.5	12.8	70.4	72.2	72.4	11.2	11.6	11.6	61.1	63.0	64.2	62.5	63.2	64.1	10
18.8	15.8	19.9	65.7	67.9	67.9	9.3	9.5	9.4	52.5	55.7	55.4	44.3	39.7	45.1	11
9.6	9.4	9.4	43.5	45.2	45.4	6.5	6.6	6.6	33.1	35.1	34.0	24.2	23.8	24.6	12
57.7	55.3	59.4	226.0	238.6	238.8	47.0	49.9	49.7	156.2	164.2	165.3	208.3	213.2	216.9	13
19.7	20.4	20.4	80.3	85.5	85.8	20.4	22.2	22.2	53.1	57.2	56.9	79.1	81.4	81.9	14
13.6	15.4	19.5	59.6	59.6	59.6	13.0	13.5	13.4	46.0	48.6	48.9	25.3	27.6	27.7	15
52.2	54.1	54.4	214.5	225.5	223.1	52.3	56.2	56.3	152.1	160.0	159.1	182.9	178.4	187.1	16
4.7	5.0	5.0	22.4	24.1	24.3	4.2	4.7	4.7	15.3	16.7	17.3	20.2	19.7	21.8	17
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
31.0	33.2	33.2	119.1	123.8	124.0	34.0	37.1	37.2	92.3	95.3	96.4	75.6	73.0	76.9	19
2.5	2.5	(*)	15.1	16.2	(*)	4.2	4.5	(*)	11.7	11.6	(*)	24.1	23.2	(*)	20
253.3	256.5	255.4	926.8	922.7	927.1	210.2	216.8	217.3	847.4	860.3	868.5	702.3	700.4	698.1	21
13.0	13.0	13.1	46.3	45.5	45.5	7.7	7.9	7.9	38.1	38.6	39.3	35.7	34.1	35.8	22
8.0	8.0	8.0	11.3	12.3	12.2	1.4	1.4	1.4	7.9	8.2	8.1	7.2	7.0	7.4	23
81.6	82.3	81.8	316.2	309.3	312.4	96.4	97.4	97.6	341.6	346.7	349.2	239.4	231.8	232.3	24
5.3	5.3	5.3	21.0	21.1	20.8	4.4	4.6	4.6	18.8	18.7	18.7	14.9	14.9	15.4	25
14.6	14.7	14.8	41.5	41.3	41.2	11.0	11.3	11.3	33.5	35.9	36.1	53.8	54.0	54.3	26
5.7	5.6	5.7	16.7	16.3	16.7	3.6	3.9	3.7	14.6	14.6	15.0	13.6	13.5	13.6	27
5.9	6.3	6.4	29.1	29.7	30.0	4.2	4.3	4.3	21.3	21.3	21.6	13.8	13.2	14.1	28
11.8	11.9	11.7	48.4	48.2	48.8	6.7	9.0	9.0	40.2	40.1	40.0	37.1	37.8	37.6	29
96.6	96.7	96.2	393.4	389.8	393.7	110.3	111.7	111.7	353.9	400.8	402.5	294.4	287.1	288.4	30
55.1	55.6	55.1	155.7	150.4	153.2	64.9	64.1	64.1	200.2	200.6	203.5	152.3	148.8	144.9	31
57.7	58.1	57.9	198.8	200.8	202.5	40.9	41.9	41.8	180.2	182.0	182.1	120.8	118.3	118.9	32
6.7	6.4	6.5	24.2	24.3	24.4	5.1	5.5	5.4	21.2	21.2	21.4	18.9	17.8	18.5	33
4.4	4.3	4.1	18.4	18.0	18.2	3.0	3.2	3.1	16.1	16.1	16.2	11.1	12.9	11.8	34
6.0	6.0	6.0	25.3	25.6	26.1	4.9	5.1	5.1	17.3	16.8	16.9	19.4	18.4	19.3	35
2.0	2.0	2.0	8.8	8.9	9.0	1.8	1.9	1.9	7.8	7.9	8.0	5.8	5.6	5.8	36
6.3	6.1	6.1	28.8	29.8	29.5	3.3	3.6	3.6	20.1	20.3	20.7	17.1	16.3	16.8	37
13.7	13.5	13.6	76.6	76.3	77.0	18.3	18.8	18.8	70.5	71.5	71.9	56.3	57.3	56.5	38
13.6	13.4	13.5	78.5	78.2	78.9	18.3	18.7	18.7	68.2	70.1	70.4	53.0	54.0	53.5	39
43.0	47.0	45.4	192.2	207.8	205.7	39.8	41.0	41.0	135.3	145.1	142.3	201.8	204.9	213.0	40
6.9	7.6	6.8	26.0	26.8	26.9	4.9	4.9	5.0	18.6	19.8	19.8	39.4	39.5	40.2	41
8.0	8.5	8.6	31.1	34.6	35.4	11.5	12.5	12.6	22.8	23.4	23.3	47.7	48.7	49.7	42
9.1	9.4	9.4	41.9	42.4	42.4	8.0	8.1	8.1	31.8	32.6	32.8	27.8	28.3	28.8	43
12.2	12.4	(*)	61.1	61.8	(*)	9.6	10.5	(*)	46.2	49.6	(*)	56.5	55.9	(*)	44
1.7	1.7	(*)	7.4	8.3	(*)	1.2	1.3	(*)	5.5	5.5	(*)	5.4	5.0	(*)	45
4.1	4.2	(*)	15.2	15.8	(*)	2.5	2.7	(*)	10.4	11.0	(*)	6.3	6.2	(*)	46
74.3	77.2	77.1	346.3	356.1	358.5	71.1	73.7	73.2	244.0	252.2	254.2	285.5	292.9	295.7	47
6.3	6.3	6.2	30.2	30.8	30.9	8.4	8.0	8.0	24.7	25.1	25.2	27.8	29.1	29.3	48
7.3	7.5	7.5	38.3	38.9	39.0	6.9	7.0	7.0	27.1	27.7	27.6	39.6	39.2	39.9	49
22.0	22.1	22.5	89.0	88.6	89.0	18.5	18.7	18.6	64.4	66.1	66.1	64.3	64.8	65.5	50
16.6	17.7	17.6	71.1	74.9	74.3	19.9	19.8	19.9	62.9	61.8	63.2	55.2	56.8	57.4	51
292.2	304.3	303.8	1,181.3	1,154.6	1,197.8	259.3	268.5	268.8	823.9	870.9	872.6	863.2	867.9	881.7	52
6.4	6.7	6.7	19.9	20.7	20.8	3.1	3.3	3.3	12.7	12.7	12.7	11.4	11.9	12.0	53
5.6	5.8	5.8	35.7	37.7	37.9	9.8	9.9	9.8	29.3	30.3	31.3	69.3	69.9	71.1	54
9.8	10.1	9.8	27.8	27.8	27.9	4.9	5.0	5.1	20.4	20.3	20.4	17.9	18.3	18.6	55
5.5	5.8	5.8	26.0	26.5	26.5	4.8	5.1	5.2	16.6	17.2	17.1	22.8	23.9	23.9	56
75.4	79.1	79.1	308.6	323.5	324.6	82.7	88.0	87.9	159.8	208.4	208.7	153.8	154.3	156.9	57
9.5	9.1	(*)	34.4	34.7	(*)	6.2	6.4	(*)	22.0	22.5	(*)	28.4	28.7	(*)	58
5.0	6.1	6.0	11.9	12.6	12.6	4.4	4.6	4.6	10.3	10.9	10.8	16.5	17.3	17.1	59
79.5	83.4	83.4	275.5	288.5	297.2	63.2	65.5	65.8	214.4	229.5	230.4	129.8	132.8	134.2	60
4.5	4.6	4.8	24.5	25.3	25.6	3.7	3.9	3.9	14.1	14.7	15.2	16.7	16.9	16.9	61
14.4	14.7	14.8	82.0	82.0	81.9	21.2	22.9	22.9	61.4	62.6	62.9	89.8	89.1	89.5	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			Contract construction			Manufacturing		
	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P
TEXAS—Continued												
1 Waco	61.7	63.2	63.6	(1)	(1)	(1)	2.8	3.3	3.3	14.6	14.8	14.8
2 Wichita Falls	45.9	47.5	47.8	2.2	2.3	2.3	2.8	2.8	2.8	7.5	8.4	8.5
UTAH												
3 Salt Lake City—Ogden	478.2	493.5	(*)	14.6	15.0	(*)	30.9	33.7	(*)	73.4	76.7	(*)
4	339.8	349.0	(*)	6.6	6.8	(*)	21.2	21.5	(*)	48.7	51.1	(*)
VERMONT												
5 Burlington	173.3	180.9	181.0	.7	.8	.7	9.0	10.0	10.1	42.0	43.5	43.6
6	45.5	47.4	47.9	-	-	-	-	-	-	10.2	11.0	11.1
7 Springfield	12.6	13.3	13.4	-	-	-	-	-	-	5.1	5.4	5.4
VIRGINIA												
8	1,869.8	1,935.7	1,940.2	22.1	22.5	22.3	116.6	124.0	122.2	392.6	403.0	405.1
9 Bristol	25.2	25.5	25.5	(1)	(1)	(1)	1.1	1.0	1.0	8.7	8.6	8.6
10 Lynchburg	62.4	62.9	63.1	(1)	(1)	(1)	2.9	2.9	3.0	27.4	28.2	28.3
11 Newport News—Hampton	134.4	139.8	138.8	(1)	(1)	(1)	6.9	7.7	7.6	32.4	34.9	34.9
12 Norfolk—Virginia Beach—Portsmouth	253.3	259.6	257.9	(1)	(1)	(1)	15.9	17.4	16.4	26.5	28.2	28.1
13 Northern Virginia ¹⁶	362.5	375.6	375.7	.3	.4	.4	24.0	26.3	25.2	13.7	14.2	14.2
14 Petersburg—Colonial Hts.—Hopewell	43.7	44.6	44.5	(1)	(1)	(1)	2.4	2.5	2.4	12.6	12.4	12.4
15 Richmond	288.5	296.7	298.3	.3	.3	.3	16.5	18.8	18.9	51.7	52.0	52.2
16 Roanoke	98.1	99.2	99.4	.2	.2	.2	5.6	5.8	5.7	21.3	21.0	21.2
WASHINGTON												
17	1,301.8	1,369.4	(*)	2.2	2.2	(*)	74.0	85.5	(*)	254.4	273.7	(*)
18 Seattle—Everett	600.5	640.3	(*)	(1)	(1)	(*)	28.6	36.5	(*)	121.0	131.1	(*)
19 Spokane	110.6	113.3	(*)	(1)	(1)	(*)	6.0	6.5	(*)	15.0	16.2	(*)
20 Tacoma	121.3	128.1	(*)	(1)	(1)	(*)	6.2	6.9	(*)	20.5	21.3	(*)
WEST VIRGINIA												
21	606.1	623.0	(*)	70.0	74.5	(*)	38.3	39.2	(*)	127.1	128.4	(*)
22 Charleston	104.3	103.3	(*)	6.0	6.2	(*)	6.9	6.0	(*)	19.4	19.3	(*)
23 Huntington—Ashland	98.1	97.3	(*)	.8	.8	(*)	6.1	5.6	(*)	28.6	28.1	(*)
24 Parkersburg—Marietta	52.6	52.9	(*)	.4	.4	(*)	2.6	2.3	(*)	16.8	17.2	(*)
25 Wheeling	64.3	64.9	(*)	8.4	8.4	(*)	2.9	2.3	(*)	13.6	14.8	(*)
WISCONSIN												
26	1,770.1	1,819.6	1,826.5	2.7	2.6	2.5	74.5	82.9	83.3	520.0	532.3	529.3
27 Appleton—Oshkosh	110.9	111.0	111.3	(1)	(1)	(1)	5.5	5.3	5.1	41.0	42.7	42.5
28 Green Bay	69.5	71.7	71.7	(1)	(1)	(1)	3.6	3.8	3.9	20.7	21.6	21.2
29 Kenosha	42.6	40.2	40.6	(1)	(1)	(1)	1.0	1.0	.9	18.4	15.7	16.0
30 La Crosse	36.5	38.3	38.5	(1)	(1)	(1)	1.2	1.4	1.4	9.0	9.1	9.2
31 Madison	148.5	152.2	153.1	(1)	(1)	(1)	6.2	6.9	7.1	17.5	18.3	17.9
32 Milwaukee	617.9	618.0	626.4	(1)	(1)	(1)	22.0	23.5	23.8	198.5	196.8	201.6
33 Racine	63.9	65.9	65.8	(1)	(1)	(1)	1.7	2.0	1.9	26.8	27.4	27.5
WYOMING												
34	160.0	176.2	174.4	21.6	25.2	25.1	16.1	13.7	18.5	9.1	8.6	9.2
35 Casper	28.1	29.9	30.4	4.9	5.4	5.5	2.4	2.6	2.7	1.7	1.8	1.8
36 Cheyenne	24.0	25.0	25.0	(1)	(1)	(1)	1.5	1.8	1.8	1.4	1.4	1.4

1 Combined with services.
 2 Based on the 1967 Standard Industrial Classification Manual.
 3 Combined with construction.
 4 Based on 1972 Standard Industrial Classification and adjusted to 1977 benchmark; not strictly comparable with previously published data.
 5 Area included in Chicago-Gary Standard Consolidated Statistical Area.
 6 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.
 7 Subarea of New York—Northeastern New Jersey.
 8 Subarea of Rochester Standard Metropolitan Statistical Area.
 9 Area included in New York and Nassau-Suffolk combined SMSA's.
 10 Subarea of New York Standard Metropolitan Statistical Area.
 11 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.
 12 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

13 Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.
 14 Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.
 15 Total includes data for industry divisions not shown separately. Services excludes agriculture, forestry, and fisheries.
 16 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			
OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	
3.0	3.0	3.0	13.9	14.5	14.6	3.6	3.0	3.6	12.9	13.3	13.4	10.9	10.7	10.9	1
2.2	2.3	2.3	11.5	11.7	11.8	2.0	2.1	2.1	6.8	6.9	6.9	10.9	11.0	11.1	2
28.7	29.8	(*)	115.9	120.1	(*)	21.0	22.2	(*)	79.8	83.4	(*)	114.0	112.5	(*)	3
22.9	23.5	(*)	85.8	89.7	(*)	17.3	17.7	(*)	52.8	56.8	(*)	84.5	81.8	(*)	4
8.4	8.6	8.6	35.7	37.9	37.5	6.8	7.0	7.0	39.2	41.3	41.1	31.7	32.0	32.5	5
2.1	2.1	2.0	9.9	10.6	10.6	-	-	-	9.5	10.1	10.1	-	-	-	6
.8	.8	.8	2.0	2.0	2.0	-	-	-	2.3	2.6	2.7	-	-	-	7
106.3	110.2	109.2	390.9	399.9	402.3	86.9	91.1	91.2	317.1	334.3	332.4	437.3	450.7	455.5	8
.9	.9	.9	6.1	6.2	6.2	.9	.9	.9	3.4	3.5	3.5	4.1	4.4	4.4	9
2.6	2.5	2.6	10.1	9.7	9.7	2.7	2.7	2.7	8.2	8.5	8.5	8.5	8.4	8.4	10
4.4	4.5	4.5	25.0	25.0	24.9	4.4	4.5	4.5	24.9	25.4	25.0	36.4	37.8	37.4	11
17.7	17.6	16.7	61.2	63.1	63.4	12.9	13.1	13.1	44.0	45.1	44.0	75.1	75.1	76.2	12
25.5	26.2	25.9	86.6	89.4	90.2	21.2	23.1	23.1	83.0	87.5	87.6	108.2	108.5	109.1	13
1.4	1.4	1.4	7.8	8.1	8.0	1.1	1.2	1.2	5.3	5.5	5.6	13.1	13.5	13.5	14
17.5	18.1	18.1	67.0	68.6	69.0	22.4	22.9	23.0	50.4	51.8	51.9	62.7	64.2	64.9	15
10.0	9.9	9.9	23.7	23.5	23.5	5.4	5.4	5.4	18.1	18.2	18.1	13.8	15.2	15.4	16
76.3	80.0	(*)	315.4	332.1	(*)	69.2	75.4	(*)	234.6	252.2	(*)	275.7	268.3	(*)	17
43.0	46.0	(*)	148.8	157.4	(*)	41.5	44.8	(*)	111.0	119.8	(*)	106.6	104.7	(*)	18
7.5	7.3	(*)	30.9	32.1	(*)	6.9	7.5	(*)	24.7	25.2	(*)	19.6	18.5	(*)	19
5.9	5.9	(*)	28.8	29.9	(*)	5.6	6.0	(*)	24.7	27.7	(*)	25.6	30.4	(*)	20
39.3	41.2	(*)	117.9	121.7	(*)	18.5	18.6	(*)	86.1	87.6	(*)	109.0	111.9	(*)	21
8.7	8.5	(*)	23.2	23.5	(*)	4.5	4.5	(*)	17.2	17.1	(*)	18.4	18.3	(*)	22
9.1	9.4	(*)	20.0	20.0	(*)	3.3	3.4	(*)	13.4	13.3	(*)	16.9	16.7	(*)	23
2.3	2.4	(*)	11.4	11.6	(*)	1.7	1.8	(*)	8.1	7.7	(*)	9.3	9.7	(*)	24
3.6	3.7	(*)	13.5	13.5	(*)	2.4	2.4	(*)	12.3	12.3	(*)	7.6	7.4	(*)	25
84.6	85.6	87.3	401.5	418.3	420.9	78.2	80.3	80.7	315.3	332.0	331.0	253.3	285.7	291.5	26
4.1	3.8	4.0	23.7	22.8	22.8	4.2	4.3	4.4	17.5	17.8	17.6	14.9	14.2	15.0	27
4.6	4.5	4.5	16.4	16.7	16.6	2.0	2.4	2.4	12.5	13.2	13.2	9.7	9.6	10.0	28
1.6	1.7	1.6	8.1	8.1	8.2	.8	.8	.8	6.8	7.1	7.2	5.9	5.8	5.9	29
2.2	2.1	2.1	9.8	10.3	10.3	.9	1.0	1.0	7.8	8.2	8.3	5.9	6.1	6.2	30
5.4	5.3	5.3	31.8	33.1	33.8	5.5	10.2	10.2	26.0	26.4	26.5	52.1	52.0	52.4	31
31.1	31.6	32.4	135.7	135.7	136.8	33.2	33.4	33.4	120.7	124.8	126.2	76.3	72.2	72.3	32
2.3	2.3	2.4	12.4	13.0	13.0	1.7	1.8	1.8	10.4	11.1	10.8	8.6	8.4	8.5	33
12.9	13.5	13.5	35.3	39.3	38.7	5.3	5.8	5.8	22.3	25.9	23.7	37.4	39.2	39.9	34
2.1	2.2	2.2	7.2	7.7	7.7	1.2	1.3	1.4	4.0	4.3	4.3	4.6	4.6	4.8	35
3.3	3.6	3.6	5.5	6.1	6.1	1.3	1.4	1.3	4.3	4.1	4.1	6.7	6.6	6.7	36

ESTABLISHMENT DATA HOURS AND EARNINGS

C-2. Gross hours and earnings of production or nonsupervisory workers ¹ on private nonagricultural payrolls, by industry

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P
-	TOTAL PRIVATE	\$180.28	\$180.50	\$194.03	\$195.48	\$194.40	\$4.98	\$5.00	\$5.36	\$5.40	\$5.40
-	MINING	287.33	288.63	315.14	318.15	317.63	6.56	6.62	7.05	7.07	7.09
10	METAL MINING	288.56	284.49	302.40	306.41	-	6.92	6.99	7.43	7.51	-
101	Iron ores	314.07	315.44	335.25	338.07	-	7.22	7.37	7.45	7.58	-
102	Copper ores	286.16	276.48	291.00	295.62	-	7.19	7.20	7.76	7.80	-
11,12	COAL MINING	325.99	333.66	374.10	376.64	-	7.99	8.04	8.60	8.56	-
12	Bituminous coal and lignite mining	326.82	334.91	375.84	378.40	-	8.03	8.07	8.64	8.60	-
13	OIL AND GAS EXTRACTION	272.12	272.05	299.30	295.10	-	5.89	5.94	6.33	6.36	-
131,2	Crude petroleum and natural gas fields	280.14	278.04	307.44	304.14	-	6.67	6.62	7.20	7.19	-
138	Oil and gas field services	268.47	268.94	285.25	291.13	-	5.57	5.65	5.98	6.04	-
14	NONMETALLIC MINERALS, EXCEPT										
	FUELS	251.87	245.20	270.45	272.56	-	5.56	5.56	6.01	6.03	-
142	Crushed and broken stone	247.48	237.98	264.60	270.27	-	5.38	5.36	5.79	5.85	-
-	CONTRACT CONSTRUCTION	299.87	289.25	304.22	309.82	298.84	7.85	7.86	8.20	8.24	8.21
15	GENERAL BUILDING CONTRACTORS	283.79	279.83	292.29	296.61	-	7.67	7.73	8.03	8.06	-
16	HEAVY CONSTRUCTION CONTRACTORS	307.86	283.75	300.09	312.83	-	7.33	7.22	7.54	7.63	-
161	Highway and street construction	308.73	275.41	299.30	314.16	-	7.13	6.99	7.39	7.48	-
162	Heavy construction, nec	307.16	290.82	301.06	311.58	-	7.51	7.40	7.68	7.77	-
17	SPECIAL TRADE CONTRACTORS	306.61	297.56	313.27	316.09	-	8.22	8.22	8.63	8.66	-
171	Plumbing, heating, air conditioning	318.27	317.60	336.92	337.31	-	8.31	8.38	8.82	8.83	-
172	Painting, paper hanging, decorating	279.78	266.64	283.03	280.36	-	7.75	7.64	8.18	8.15	-
173	Electrical work	348.56	344.13	357.95	361.37	-	9.03	9.08	9.52	9.56	-
174	Masonry, stonework, and plastering	275.99	264.23	281.87	286.24	-	8.07	8.13	8.49	8.57	-
176	Roofing and sheetmetal work	263.44	245.92	256.29	264.76	-	7.57	7.59	7.79	7.81	-
	MANUFACTURING	211.20	215.20	233.45	234.09	235.89	5.28	5.34	5.75	5.78	5.81
19,24,25, 32-39	DURABLE GOODS	228.17	232.31	253.58	254.62	256.47	5.62	5.68	6.14	6.18	6.21
20-23,26-31	NONDURABLE GOODS	188.16	190.70	204.73	204.61	206.32	4.80	4.84	5.17	5.18	5.21
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	239.13	243.98	258.62	257.00	258.89	5.89	5.98	6.37	6.33	6.44
192	Ammunition, except for small arms	241.80	250.71	262.28	256.21	(*)	6.03	6.16	6.59	6.47	(*)
1925	Complete guided missiles	267.59	279.86	295.07	290.07	-	6.64	6.76	7.34	7.27	-
1929	Ammunition, exc. for small arms, nec.	195.62	197.79	207.62	210.36	-	4.94	5.02	5.31	5.38	-
24	LUMBER AND WOOD PRODUCTS	197.72	193.91	210.89	211.82	209.44	4.87	4.86	5.22	5.23	5.21
242	Sawmills and planing mills	196.65	191.43	211.36	213.62	212.28	4.75	4.75	5.13	5.16	5.14
2421	Sawmills and planing mills, general	206.26	200.38	221.37	224.76	-	4.97	4.96	5.36	5.39	-
243	Millwork, plywood and related products	201.50	201.30	216.14	215.61	214.26	5.00	5.02	5.35	5.35	5.37
2431	Millwork	189.60	190.48	206.56	204.73	-	4.80	4.81	5.19	5.17	-
2432	Veneer and plywood	218.24	217.71	239.78	239.93	-	5.31	5.31	5.75	5.74	-
244	Wooden containers	141.64	140.46	150.92	150.93	151.30	3.66	3.62	3.85	3.91	3.94
2441,2	Wooden boxes, shooks, and crates	139.52	137.98	145.11	144.78	-	3.55	3.52	3.74	3.81	-
249	Miscellaneous wood products	159.20	159.18	171.60	172.48	174.50	4.01	4.04	4.29	4.28	4.33
25	FURNITURE AND FIXTURES	157.53	157.92	174.28	176.04	176.84	4.06	4.07	4.39	4.39	4.41
251	Household furniture	147.07	147.46	163.10	165.57	165.13	3.83	3.84	4.15	4.16	4.17
2511	Wood household furniture	141.48	141.87	154.42	157.16	-	3.60	3.61	3.88	3.89	-
2512	Upholstered household furniture	152.15	152.89	172.93	174.33	-	4.09	4.11	4.48	4.47	-
2515	Mattresses and bedsprings	164.93	160.45	190.48	188.02	-	4.41	4.42	4.81	4.76	-
252	Office furniture	196.30	196.24	206.85	209.66	-	4.73	4.74	4.89	4.91	-
254	Partitions and fixtures	195.91	194.74	213.86	214.80	-	4.91	4.93	5.32	5.33	-
253,9	Other furniture and fixtures	170.50	175.28	191.75	196.49	(*)	4.44	4.46	4.83	4.90	(*)
32	STONE, CLAY, AND GLASS PRODUCTS	226.97	225.09	243.02	244.85	243.90	5.43	5.45	5.87	5.90	5.92
321	Flat glass	284.13	283.92	310.48	307.50	-	6.83	6.76	7.41	7.50	-
322	Glass and glassware, pressed or blown	223.71	226.55	231.94	239.12	(*)	5.51	5.58	6.04	6.10	(*)
3221	Glass containers	232.23	232.64	234.47	243.97	-	5.72	5.73	6.32	6.37	-
3229	Pressed and blown glass, nec	210.60	216.68	227.93	232.07	-	5.20	5.35	5.67	5.73	-
324	Cement, hydraulic	311.08	312.33	342.30	340.65	339.81	7.46	7.49	8.15	8.13	8.11
325	Structural clay products	179.31	181.63	196.77	194.99	(*)	4.30	4.43	4.73	4.71	(*)
3251	Brick and structural clay tile	166.24	163.51	175.97	176.82	-	3.93	3.94	4.22	4.21	-
326	Pottery and related products	181.96	185.18	201.17	201.85	-	4.63	4.70	5.08	5.11	-
327	Concrete, gypsum, and plaster products	240.13	230.66	255.21	257.54	252.25	5.47	5.44	5.84	5.88	5.88
328,9	Other stone and nonmetallic mineral products	216.12	218.00	235.98	235.25	(*)	5.31	5.33	5.70	5.71	-
3291	Abrasive products	211.20	214.25	226.85	225.99	-	5.28	5.29	5.56	5.58	-

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P
—	TOTAL PRIVATE	36.2	36.1	36.2	36.2	36.0	—	—	—	—	—
—	MINING	43.8	43.6	44.7	45.0	44.8	—	—	—	—	—
10	METAL MINING	41.7	40.7	40.7	40.8	—	—	—	—	—	
101	Iron ores	43.5	42.8	45.0	44.6	—	—	—	—	—	
102	Copper ores	39.8	38.4	37.5	37.9	—	—	—	—	—	
11,12	COAL MINING	40.8	41.5	43.5	44.0	—	—	—	—	—	
12	Bituminous coal and lignite mining	40.7	41.5	43.5	44.0	—	—	—	—	—	
13	OIL AND GAS EXTRACTION	46.2	45.8	46.2	46.4	—	—	—	—	—	
131,2	Crude petroleum and natural gas fields	42.0	42.0	42.7	42.3	—	—	—	—	—	
138	Oil and gas field services	48.2	47.6	47.7	48.2	—	—	—	—	—	
14	NONMETALLIC MINERALS, EXCEPT FUELS	45.3	44.1	45.0	45.2	—	—	—	—	—	
142	Crushed and broken stone	46.0	44.4	45.7	46.2	—	—	—	—	—	
—	CONTRACT CONSTRUCTION	38.2	36.8	37.1	37.6	36.4	—	—	—	—	
15	GENERAL BUILDING CONTRACTORS	37.0	36.2	36.4	36.8	—	—	—	—	—	
16	HEAVY CONSTRUCTION CONTRACTORS	42.0	39.3	39.8	41.0	—	—	—	—	—	
161	Highway and street construction	43.3	39.4	40.5	42.0	—	—	—	—	—	
162	Heavy construction, nec	40.9	39.3	39.2	40.1	—	—	—	—	—	
17	SPECIAL TRADE CONTRACTORS	37.3	36.2	36.3	36.5	—	—	—	—	—	
171	Plumbing, heating, air conditioning	38.3	37.9	38.2	38.2	—	—	—	—	—	
172	Painting, paper hanging, decorating	36.1	34.9	34.6	34.4	—	—	—	—	—	
173	Electrical work	38.6	37.9	37.6	37.8	—	—	—	—	—	
174	Masonry, stonework, and plastering	34.2	32.5	33.2	33.4	—	—	—	—	—	
176	Roofing and sheet metal work	34.8	32.4	32.9	33.9	—	—	—	—	—	
—	MANUFACTURING	40.0	40.3	40.6	40.5	40.6	3.2	3.2	3.7	3.6	3.5
19,24,25, 32-39	DURABLE GOODS	40.6	40.9	41.3	41.2	41.3	3.2	3.3	3.9	3.9	3.8
20-23,26-31	NONDURABLE GOODS	39.2	39.4	39.6	39.5	39.6	3.0	3.0	3.4	3.3	3.2
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	40.6	40.8	40.6	40.6	40.2	2.7	2.7	3.0	2.8	—
192	Ammunition, except for small arms	40.1	40.1	39.8	39.6	(*)	2.4	2.8	2.7	2.5	—
1925	Complete guided missiles	40.3	41.4	40.2	39.9	—	—	—	—	—	—
1929	Ammunition, exc. for small arms, nec.	39.6	39.4	39.1	39.1	—	—	—	—	—	
24	LUMBER AND WOOD PRODUCTS	40.6	39.9	40.4	40.5	40.2	3.8	3.5	4.3	4.2	—
242	Sawmills and planing mills	41.4	40.3	41.2	41.4	41.3	4.3	3.9	4.8	4.7	—
2421	Sawmills and planing mills, general	41.5	40.4	41.3	41.7	—	—	—	—	—	
243	Millwork, plywood and related products	40.3	40.1	40.4	40.3	39.9	3.4	3.3	4.1	3.8	
2431	Millwork	39.5	39.6	39.8	39.6	—	—	—	—	—	
2432	Veneer and plywood	41.1	41.0	41.7	41.8	—	—	—	—	—	
244	Wooden containers	38.7	38.8	39.2	38.6	38.4	2.1	2.4	3.1	3.1	
2441,2	Wooden boxes, shooks, and crates	39.3	39.2	38.8	38.0	—	—	—	—	—	
249	Miscellaneous wood products	39.7	39.4	40.0	40.3	40.3	3.4	3.3	3.7	3.8	
25	FURNITURE AND FIXTURES	38.8	38.8	39.7	40.1	40.1	2.2	2.0	2.9	2.9	—
251	Household furniture	38.4	38.4	39.3	39.8	39.6	2.0	1.9	2.9	2.9	—
2511	Wood household furniture	39.3	39.3	39.8	40.4	—	2.4	2.2	3.2	3.4	
2512	Upholstered household furniture	37.2	37.2	38.6	39.0	—	—	—	—	—	
2515	Mattresses and bedsprings	37.4	36.3	39.6	39.5	—	3.3	3.3	3.4	3.7	
252	Office furniture	41.5	41.4	42.3	42.7	—	—	—	—	—	
254	Partitions and fixtures	39.9	39.5	40.2	40.3	—	2.8	2.3	3.5	3.2	
253,9	Other furniture and fixtures	38.4	39.3	39.7	40.1	(*)	1.9	1.7	2.2	2.3	
32	STONE, CLAY, AND GLASS PRODUCTS	41.8	41.3	41.4	41.5	41.2	4.6	4.2	4.8	4.9	—
321	Flat glass	41.6	42.0	41.9	41.0	—	5.3	6.4	7.3	6.7	
322	Glass and glassware, pressed or blown	40.6	40.6	38.4	39.2	(*)	4.2	4.2	3.6	3.7	
3221	Glass containers	40.6	40.6	37.1	38.3	—	—	—	—	—	
3229	Pressed and blown glass, nec	40.5	40.5	40.2	40.5	—	2.8	3.1	3.2	3.2	
324	Cement, hydraulic	41.7	41.7	42.0	41.9	41.9	3.0	3.0	4.0	3.9	
325	Structural clay products	41.7	41.0	41.6	41.4	(*)	4.1	4.0	4.6	4.4	
3251	Brick and structural clay tile	42.3	41.5	41.7	42.0	—	—	—	—	—	
326	Pottery and related products	39.3	39.4	39.6	39.5	—	2.5	2.6	2.6	2.8	
327	Concrete, gypsum and plaster products	43.9	42.4	43.7	43.8	42.9	6.5	5.4	6.9	7.0	
328,9	Other stone and nonmetallic mineral products	40.7	40.9	41.4	41.2	(*)	3.3	3.4	3.9	3.8	
3291	Abrasive products	40.0	40.5	40.8	40.5	—	—	—	—	—	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers ¹
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P
	DURABLE GOODS—Continued										
33	PRIMARY METAL INDUSTRIES	\$276.69	\$279.68	\$318.01	\$314.88	\$319.61	\$6.90	\$6.94	\$7.70	\$7.68	\$7.72
331	Blast furnace and basic steel products	302.64	306.15	357.69	349.44	(*)	7.78	7.85	8.81	8.78	(*)
3312	Blast furnaces and steel mills	307.64	310.34	366.02	356.29	—	7.97	8.04	9.06	9.02	—
332	Iron and steel foundries	257.48	262.48	283.98	287.31	—	6.28	6.34	6.81	6.89	(*)
3321	Gray iron foundries	266.74	271.88	297.22	297.36	—	6.49	6.52	7.01	7.08	—
3322	Malleable iron foundries	259.77	264.49	285.73	294.76	—	6.61	6.73	7.09	7.26	—
3323	Steel foundries	232.37	237.22	248.03	256.05	—	5.64	5.73	6.17	6.23	—
333,4	Nonferrous metals	285.23	286.49	320.46	326.14	(*)	6.84	6.92	7.63	7.62	(*)
3334	Primary aluminum	318.02	316.57	367.79	364.63	—	7.59	7.74	8.76	8.62	—
335	Nonferrous rolling and drawing	256.46	257.23	290.28	288.32	286.79	6.15	6.11	6.83	6.80	6.78
3351	Copper rolling and drawing	254.04	254.10	281.23	283.19	—	6.02	6.05	6.48	6.51	—
3352	Aluminum rolling and drawing	270.90	267.30	319.70	311.71	—	6.45	6.26	7.54	7.30	—
3357	Nonferrous wire drawing and insulating	251.93	255.40	273.42	276.78	—	6.10	6.11	6.51	6.59	—
336	Nonferrous foundries	209.75	214.93	237.72	238.21	244.02	5.27	5.32	5.77	5.81	5.88
3361	Aluminum castings	214.40	219.65	247.76	246.97	—	5.36	5.41	5.97	5.98	—
3362,9	Other nonferrous castings	204.46	209.96	225.77	226.55	—	5.15	5.21	5.52	5.58	—
339	Miscellaneous primary metal products	263.34	264.40	300.77	300.66	302.43	6.60	6.66	7.23	7.28	7.27
3391	Iron and steel forgings	280.40	283.51	326.70	324.16	—	7.01	7.07	7.76	7.83	—
34	FABRICATED METAL PRODUCTS	222.89	226.73	245.14	247.20	249.64	5.49	5.53	5.95	6.00	6.03
341	Metal cans	295.40	302.02	338.34	337.92	(*)	7.05	7.04	7.76	7.68	(*)
342	Cutlery, hand tools, and hardware	218.41	220.30	235.66	237.72	(*)	5.34	5.36	5.72	5.77	(*)
3421,3,5	Cutlery and hand tools, incl. saws	201.55	202.13	214.84	214.32	—	4.94	4.93	5.24	5.24	—
3429	Hardware, nec	229.45	232.78	249.64	252.95	—	5.61	5.65	6.03	6.11	—
343	Plumbing and heating, except electric	201.60	203.50	213.99	214.13	(*)	4.99	5.00	5.31	5.34	(*)
3431,2	Sanitary ware and plumbers' brass goods	200.30	200.59	211.58	213.15	—	5.02	5.04	5.37	5.41	—
3433	Heating equipment, except electric	201.96	205.84	216.07	214.37	—	4.95	4.96	5.27	5.28	—
344	Fabricated structural metal products	220.46	222.63	232.30	232.70	235.65	5.43	5.47	5.75	5.76	5.79
3441	Fabricated structural steel	235.82	238.78	247.44	243.36	—	5.71	5.74	6.14	6.13	—
3442	Metal doors, sash, and trim	175.47	172.43	180.80	179.50	—	4.42	4.41	4.52	4.51	—
3443	Fabricated plate work (boiler shops)	237.92	242.49	251.37	256.31	—	5.86	5.90	6.30	6.36	—
3444	Sheet metal work	224.37	227.11	240.35	242.72	—	5.54	5.58	5.92	5.92	—
3446,9	Architectural and misc. metal work	208.79	211.29	232.81	227.98	—	5.13	5.23	5.53	5.52	—
345	Screw machine products, bolts, etc	224.47	227.34	246.96	247.25	252.15	5.37	5.40	5.73	5.75	5.77
3451	Screw machine products	211.36	216.52	234.79	234.23	—	5.13	5.18	5.41	5.46	—
3452	Bolts, nuts, rivets, and washers	238.00	237.86	259.37	260.15	—	5.60	5.61	6.06	6.05	—
346	Metal stampings	243.39	250.70	291.75	300.46	303.45	6.10	6.19	6.93	7.12	7.14
347	Metal services, nec	178.80	179.74	193.44	192.76	193.60	4.47	4.46	4.80	4.80	4.84
348	Miscellaneous fabricated wire products	189.27	191.09	204.83	204.93	(*)	4.72	4.73	5.07	5.06	(*)
349	Miscellaneous fabricated metal products	220.86	227.01	242.84	242.90	245.55	5.44	5.51	5.88	5.91	5.96
3494,8	Valves, pipe, and pipe fittings	227.96	234.06	250.74	251.22	—	5.56	5.64	5.97	6.01	—
35	MACHINERY, EXCEPT ELECTRICAL	240.20	246.45	265.44	267.96	270.94	5.83	5.91	6.32	6.38	6.39
351	Engines and turbines	274.40	283.72	330.38	326.74	329.13	6.86	6.92	7.63	7.67	7.69
3511	Steam engines and turbines	272.58	278.10	282.87	275.60	—	6.60	6.59	6.82	6.89	—
3519	Internal combustion engines, nec	275.01	285.63	350.76	348.29	—	6.98	7.07	7.90	7.97	—
352	Farm machinery	230.85	252.55	280.22	283.87	—	5.70	6.19	6.72	6.89	—
353	Construction and related machinery	249.48	252.76	282.83	287.70	(*)	6.16	6.18	6.75	6.85	(*)
3531,2	Construction and mining machinery	261.10	263.74	308.16	316.50	—	6.61	6.61	7.39	7.59	—
3533	Oil field machinery	247.53	249.41	262.48	266.48	—	5.77	5.76	6.09	6.14	—
3535,6	Conveyors, hoists, cranes, monorails	231.32	235.71	248.46	250.47	—	5.74	5.82	6.06	6.05	—
3537	Industrial trucks and tractors	223.67	230.57	246.15	252.70	—	5.55	5.61	5.96	6.06	—
354	Metal working machinery	256.15	262.55	282.10	285.57	291.27	6.07	6.12	6.53	6.58	6.65
3541	Machine tools, metal cutting types	262.03	269.14	293.49	302.17	—	6.18	6.23	6.64	6.76	—
3544	Special dies, tools, jigs and fixtures	278.84	282.95	305.23	307.25	—	6.41	6.46	6.89	6.92	—
3545	Machine tool accessories	230.01	239.27	260.90	257.42	—	5.61	5.67	6.11	6.10	—
3542,8	Miscellaneous metal working machinery	226.24	235.00	242.38	249.07	—	5.60	5.69	5.97	6.06	—
355	Special industry machinery	226.32	235.34	247.10	246.56	251.40	5.52	5.59	5.94	5.97	6.00
3551	Food products machinery	235.91	248.20	254.40	255.19	—	5.74	5.84	6.22	6.27	—
3552	Textile machinery	188.26	190.54	202.70	198.90	—	4.66	4.67	4.92	4.96	—
3555	Printing trades machinery	231.99	244.44	260.63	258.75	—	5.70	5.82	6.25	6.22	—
356	General industrial machinery	237.05	243.43	263.34	264.16	267.10	5.81	5.88	6.30	6.35	6.39
3561	Pumps and compressors	240.20	248.56	267.97	266.68	—	5.83	5.89	6.35	6.38	—
3562	Ball and roller bearings	248.44	254.75	269.87	267.30	—	6.03	6.08	6.38	6.41	—
3564	Blowers and fans	219.65	224.68	239.54	243.53	—	5.41	5.48	5.80	5.84	—
3566	Power transmission equipment	235.82	242.78	266.49	264.36	—	5.78	5.85	6.33	6.37	—
357	Office and computing machines	228.65	228.98	226.87	224.95	(*)	5.38	5.35	5.48	5.46	(*)
3573	Electronic computing equipment	236.68	235.87	233.38	229.36	—	5.53	5.46	5.57	5.54	—
358	Service industry machines	213.33	218.30	236.98	240.61	(*)	5.32	5.39	5.78	5.84	(*)
3585	Refrigeration machinery	214.80	220.19	239.67	243.49	—	5.33	5.41	5.86	5.91	—
359	Miscellaneous machinery, except electrical	236.44	238.26	254.28	256.81	(*)	5.67	5.70	6.04	6.10	(*)

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1976	Nov. 1977	Sept. 1977	Oct. 1977 ^p	Nov. 1977 ^p	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^p	Nov. 1977 ^p
	DURABLE GOODS—Continued										
33	PRIMARY METAL INDUSTRIES	40.1	40.3	41.3	41.0	41.4	3.1	3.0	4.0	3.6	--
331	Blast furnace and basic steel products	38.9	39.0	40.6	39.8	(*)	2.0	1.9	2.9	2.4	--
3312	Blast furnaces and steel mills	38.6	38.6	40.4	39.5	--	1.8	1.7	2.8	2.2	--
332	Iron and steel foundries	41.0	41.4	41.7	41.7	(*)	4.5	4.3	5.0	4.9	--
3321	Gray iron foundries	41.1	41.7	42.4	42.0	--	5.2	5.0	5.7	5.4	--
3322	Malleable iron foundries	39.3	39.3	40.3	40.6	--	--	--	--	--	--
3323	Steel foundries	41.2	41.4	40.2	41.1	--	3.6	3.3	3.8	3.9	--
333,4	Nonferrous metals	41.7	41.4	42.0	42.8	--	3.2	3.2	4.4	3.9	--
3334	Primary aluminum	41.9	40.9	41.3	42.3	--	--	--	--	--	--
335	Nonferrous rolling and drawing	41.7	42.1	42.5	42.4	42.3	4.4	4.4	5.3	5.0	--
3351	Copper rolling and drawing	42.2	42.0	43.4	43.5	--	--	--	--	--	--
3352	Aluminum rolling and drawing	42.0	42.7	42.4	42.7	--	5.2	5.5	6.7	6.2	--
3357	Nonferrous wire drawing and insulating ..	41.3	41.8	42.0	42.0	--	3.8	3.9	4.4	4.4	--
336	Nonferrous foundries	39.8	40.4	41.2	41.0	41.5	2.8	2.9	3.7	3.7	--
3361	Aluminum castings	40.0	40.6	41.5	41.3	--	--	--	--	--	--
3362,9	Other nonferrous castings	39.7	40.3	40.9	40.6	--	--	--	--	--	--
339	Miscellaneous primary metal products	39.9	39.7	41.6	41.3	41.6	3.2	3.3	5.0	4.7	--
3391	Iron and steel forgings	40.0	40.1	42.1	41.4	--	--	--	--	--	--
34	FABRICATED METAL PRODUCTS	40.6	41.0	41.2	41.2	41.4	3.4	3.4	4.1	4.0	--
341	Metal cans	41.9	42.9	43.6	44.0	(*)	3.5	3.5	4.7	4.6	--
342	Cutlery, hand tools, and hardware	40.9	41.1	41.2	41.2	(*)	3.5	3.3	3.7	3.8	--
3421,3,5	Cutlery and hand tools, incl. saws	40.8	41.0	41.0	40.9	--	--	--	--	--	--
3429	Hardware, nec	40.9	41.2	41.4	41.4	--	--	--	--	--	--
343	Plumbing and heating, except electric	40.4	40.7	40.3	40.1	(*)	2.9	2.9	3.4	3.2	--
3431,2	Sanitary ware and plumbers' brass goods ..	39.9	39.8	39.8	39.4	--	--	--	--	--	--
3433	Heating equipment, except electric	40.8	41.5	41.0	40.6	--	--	--	--	--	--
344	Fabricated structural metal products	40.6	40.7	40.4	40.4	40.7	3.0	3.0	3.7	3.5	--
3441	Fabricated structural steel	41.3	41.6	40.3	39.7	--	3.4	3.3	3.6	3.2	--
3442	Metal doors, sash, and trim	39.7	39.1	40.0	39.8	--	3.4	3.3	3.6	3.2	--
3443	Fabricated plate work (boiler shops)	40.6	41.1	39.9	40.3	--	2.8	3.1	3.2	3.6	--
3444	Sheet metal work	40.5	40.7	40.6	41.0	--	--	--	--	--	--
3446,9	Architectural and misc. metal work	40.7	40.4	42.1	41.3	--	--	--	--	--	--
345	Screw machine products, bolts, etc	41.8	42.1	43.1	43.0	43.7	4.1	4.0	5.3	5.2	--
3451	Screw machine products	41.2	41.8	43.4	42.9	--	--	--	--	--	--
3452	Bolts, nuts, rivets, and washers	42.5	42.4	42.8	43.0	--	--	--	--	--	--
346	Metal stampings	39.9	40.5	42.1	42.2	42.5	4.2	4.5	5.1	5.4	--
347	Metal services, nec	40.0	40.3	40.3	40.2	40.0	3.3	3.4	3.8	3.8	--
348	Miscellaneous fabricated wire products	40.1	40.4	40.4	40.5	(*)	2.8	2.8	3.2	3.1	--
349	Miscellaneous fabricated metal products	40.6	41.2	41.3	41.1	41.2	3.0	3.2	3.7	3.5	--
3494,8	Valves, pipe, and pipe fittings	41.0	41.5	42.0	41.8	--	--	--	--	--	--
35	MACHINERY, EXCEPT ELECTRICAL	41.2	41.7	42.0	42.0	42.4	3.2	3.5	4.1	4.2	--
351	Engines and turbines	40.0	41.0	43.3	42.6	42.8	2.6	2.9	4.5	4.1	--
3511	Steam engines and turbines	41.3	42.2	40.7	40.0	--	--	--	--	--	--
3519	Internal combustion engines, nec	39.4	40.4	44.4	43.7	--	--	--	--	--	--
352	Farm machinery	40.5	40.8	41.7	41.2	--	2.8	4.0	3.6	4.7	--
353	Construction and related machinery	40.5	40.9	41.9	42.0	(*)	2.4	2.3	3.5	3.6	--
3531,2	Construction and mining machinery	39.5	39.9	41.7	41.7	--	1.8	1.5	2.9	2.9	--
3533	Oil field machinery	42.9	43.3	43.1	43.4	--	--	--	--	--	--
3535,6	Conveyors, hoists, cranes, monorails	40.3	40.5	41.0	41.4	--	--	--	--	--	--
3537	Industrial trucks and tractors	40.3	41.1	41.3	41.7	--	--	--	--	--	--
354	Metal working machinery	42.2	42.9	43.2	43.4	43.8	4.4	4.7	5.5	5.6	--
3541	Machine tools, metal cutting types	42.4	43.2	44.2	44.7	--	3.9	4.2	5.6	5.7	--
3544	Special dies, tools, jig and fixtures	43.5	43.8	44.3	44.4	--	--	--	--	--	--
3545	Machine tool accessories	41.0	42.2	42.7	42.2	--	3.5	3.8	4.8	4.4	--
3542,8	Miscellaneous metal working machinery	40.4	41.3	40.6	41.1	--	--	--	--	--	--
355	Special industry machinery	41.0	42.1	41.6	41.3	41.9	3.2	3.7	4.1	3.8	--
3551	Food products machinery	41.1	42.5	40.9	40.7	--	--	--	--	--	--
3552	Textile machinery	40.4	40.8	41.2	40.1	--	--	--	--	--	--
3555	Printing trades machinery	40.7	42.0	41.7	41.6	--	--	--	--	--	--
356	General industrial machinery	40.8	41.4	41.8	41.6	41.8	3.1	3.2	4.3	4.0	--
3561	Pumps and compressors	41.2	42.2	42.2	41.8	--	3.3	3.6	4.9	4.6	--
3562	Ball and roller bearings	41.2	41.9	42.3	41.7	--	3.6	3.6	4.5	4.1	--
3564	Blowers and fans	40.6	41.0	41.3	41.7	--	--	--	--	--	--
3566	Power transmission equipment	40.8	41.5	42.1	41.5	--	2.9	3.3	4.5	3.8	--
357	Office and computing machines	42.5	42.8	41.4	41.2	(*)	3.4	3.6	3.3	3.0	--
3573	Electronic computing equipment	42.8	43.2	41.9	41.4	--	--	--	--	--	--
358	Service industry machines	40.1	40.5	41.0	41.2	(*)	2.1	2.0	2.9	3.4	--
3585	Refrigeration machinery	40.3	40.7	40.9	41.2	--	1.9	1.8	2.9	3.3	--
359	Miscellaneous machinery, except electrical ..	41.7	41.8	42.1	42.1	(*)	3.9	4.0	4.5	4.6	--

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-2. Gross hours and earnings of production or nonsupervisory workers ¹ on private nonagricultural payrolls, by industry—Continued

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^p	Nov. 1977 ^p	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^p	Nov. 1977 ^p
	DURABLE GOODS—Continued										
36	ELECTRICAL EQUIPMENT AND SUPPLIES	\$202.21	\$205.84	\$221.68	\$220.99	\$222.75	\$ 5.03	\$ 5.07	\$ 5.46	\$ 5.47	\$ 5.50
361	Electric test and distributing equipment	211.33	214.25	224.37	224.22	(*)	5.27	5.29	5.54	5.55	(*)
3611	Electric measuring instruments	203.78	208.06	215.20	217.74	—	5.12	5.15	5.38	5.43	—
3612	Transformers	203.09	203.41	215.02	214.20	—	4.99	5.01	5.27	5.25	—
3613	Switchgear and switchboard apparatus	222.40	226.14	238.68	235.35	—	5.56	5.57	5.85	5.84	—
362	Electrical industrial apparatus	204.29	206.63	225.77	224.92	(*)	5.12	5.14	5.52	5.54	(*)
3621	Motors and generators	209.96	210.37	235.82	236.08	—	5.21	5.22	5.71	5.73	—
3622	Industrial controls	192.76	198.20	201.56	199.29	—	4.93	4.98	5.09	5.11	—
363	Household appliances	196.71	200.19	216.01	217.49	(*)	4.98	5.03	5.36	5.37	(*)
3632	Household refrigerators and freezers	212.94	220.18	249.12	243.76	—	5.46	5.56	5.78	5.79	—
3633	Household laundry equipment	224.45	220.99	236.63	241.92	—	5.77	5.77	6.31	6.40	—
3634	Electric housewares and fans	169.52	172.03	183.71	183.71	—	4.27	4.29	4.57	4.57	—
364	Electric lighting and wiring equipment	193.20	194.81	206.40	206.96	207.76	4.83	4.81	5.16	5.20	5.22
3641	Electric lamps	215.17	217.26	225.23	222.05	—	5.16	5.10	5.48	5.51	—
3642	Lighting fixtures	195.03	193.25	208.01	212.07	—	4.95	4.88	5.32	5.41	—
3643,4	Wiring devices	180.52	184.86	197.38	197.29	—	4.57	4.61	4.91	4.92	—
365	Radio and TV receiving equipment	181.24	179.60	200.49	202.87	(*)	4.60	4.57	5.05	5.11	(*)
366	Communication equipment	238.21	242.69	260.00	257.30	(*)	5.81	5.82	6.25	6.23	(*)
3661	Telephone and telegraph apparatus	251.91	256.58	274.91	266.39	—	6.07	6.08	6.53	6.45	—
3662	Radio and TV communication equipment	227.77	231.13	248.63	250.28	—	5.61	5.61	6.02	6.06	—
367	Electronic components and accessories	166.80	170.49	181.76	180.45	184.34	4.17	4.22	4.59	4.58	4.62
3671-3	Electron tubes	213.70	220.55	248.83	245.38	—	5.41	5.50	5.76	5.76	—
3674,9	Other electronic components	160.80	164.02	174.05	172.38	—	4.02	4.06	4.44	4.42	—
369	Miscellaneous electrical equip. and supplies	238.21	244.78	267.76	264.13	(*)	5.74	5.87	6.36	6.38	(*)
3694	Engine electrical equipment	251.53	260.62	289.80	283.15	—	6.12	6.28	6.90	6.94	—
37	TRANSPORTATION EQUIPMENT	272.41	280.98	311.16	318.00	317.48	6.58	6.69	7.27	7.43	7.47
371	Motor vehicles and equipment	301.04	312.63	355.91	367.36	(*)	7.10	7.22	7.98	8.20	(*)
3711	Motor vehicles	314.46	333.71	380.88	391.99	—	7.33	7.55	8.28	8.54	—
3712	Passenger car bodies	393.16	337.46	384.94	421.79	—	8.04	7.74	8.89	9.27	—
3713	Truck and bus bodies	223.44	223.44	249.69	250.26	—	5.60	5.60	6.15	6.21	—
3714	Motor vehicle parts and accessories	290.92	306.16	352.19	361.79	—	7.01	7.12	7.95	8.13	—
3715	Truck trailers	202.51	207.57	218.29	219.60	—	5.05	5.10	5.43	5.49	—
372	Aircraft and parts	270.19	274.73	294.56	294.56	295.94	6.59	6.62	7.03	7.03	7.08
3721	Aircraft	278.78	282.99	299.71	297.62	—	6.75	6.77	7.17	7.12	—
3722	Aircraft engines and engine parts	271.49	276.75	297.44	300.15	—	6.72	6.75	7.15	7.25	—
3723,9	Other aircraft parts and equipment	249.87	254.59	278.57	282.01	—	6.05	6.12	6.57	6.62	—
373	Ship and boat building and repairing	231.85	231.85	239.73	(*)	(*)	5.84	5.84	6.10	(*)	(*)
3731	Ship building and repairing	247.33	246.71	253.62	(*)	(*)	6.23	6.23	6.47	(*)	(*)
3732	Boat building and repairing	180.35	180.45	192.94	193.55	—	4.52	4.50	4.86	4.90	—
374	Railroad equipment	272.14	278.50	299.15	(*)	(*)	6.96	6.98	7.35	(*)	(*)
375,9	Other transportation equipment	178.88	177.12	194.93	194.54	—	4.54	4.53	4.91	4.95	—
38	INSTRUMENTS AND RELATED PRODUCTS	199.49	203.59	214.37	213.96	216.12	4.95	4.99	5.28	5.27	5.31
381	Engineering and scientific instruments	209.22	213.31	234.62	235.62	—	5.27	5.28	5.64	5.61	—
382	Mechanical measuring and control devices	195.46	199.02	210.71	208.87	212.79	4.85	4.89	5.19	5.17	5.19
3821	Mechanical measuring devices	202.54	206.67	219.18	216.65	—	4.94	4.98	5.32	5.31	—
3822	Automatic temperature controls	182.99	187.23	196.42	196.71	—	4.68	4.74	4.96	4.93	—
383,5	Optical and ophthalmic goods	176.67	182.20	192.04	190.69	192.38	4.45	4.51	4.73	4.72	4.75
385	Ophthalmic goods	157.08	163.94	168.99	168.95	—	4.08	4.14	4.30	4.31	—
384	Medical instruments and supplies	175.47	178.80	184.07	182.75	182.67	4.42	4.47	4.66	4.65	4.66
386	Photographic equipment and supplies	257.88	258.69	279.05	280.81	283.33	6.14	6.13	6.66	6.67	6.73
387	Watches, clocks, and watchcases	157.21	161.20	165.53	169.62	—	3.96	4.04	4.18	4.23	—
39	MISC. MANUFACTURING INDUSTRIES	157.93	160.34	171.70	172.92	174.94	4.06	4.08	4.38	4.40	4.44
391	Jewelry, silverware, and plated ware	176.44	178.16	180.24	186.53	186.59	4.40	4.41	4.54	4.64	4.63
394	Toys and sporting goods	144.35	145.49	157.12	156.74	—	3.73	3.74	4.06	4.05	—
3941-3	Games, toys, dolls and play vehicles	135.97	136.68	147.07	148.30	—	3.55	3.55	3.82	3.84	—
3949	Sporting and athletic goods, nec	155.62	154.84	169.65	169.46	—	3.97	3.95	4.35	4.29	—
395	Pens, pencils, office and art supplies	163.22	166.05	175.92	179.74	—	4.03	4.06	4.42	4.46	—
396	Costume jewelry and notions	134.29	141.96	148.99	148.60	—	3.61	3.64	3.89	3.88	—
393,9	Other manufacturing industries	171.26	172.48	186.12	186.91	188.89	4.38	4.40	4.70	4.72	4.77
393	Musical instruments and parts	161.50	163.93	172.80	174.10	—	4.12	4.15	4.32	4.32	—
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	203.62	205.64	217.88	215.03	220.40	5.04	5.09	5.42	5.43	5.51
201	Meat products	211.34	213.91	220.44	218.75	223.04	5.18	5.23	5.47	5.51	5.59
2011.	Meat packing plants	264.58	267.07	275.46	274.32	—	6.24	6.24	6.59	6.61	—
2013	Sausages and other prepared meats	248.88	253.59	260.98	263.41	—	6.10	6.17	6.46	6.52	—
2015	Poultry dressing plants	129.15	127.92	136.32	132.82	—	3.32	3.34	3.55	3.58	—

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P
DURABLE GOODS—Continued											
36	ELECTRICAL EQUIPMENT AND SUPPLIES	40.2	40.6	40.6	40.4	40.5	2.5	2.6	3.0	2.8	—
361	Electric test and distributing equipment	40.1	40.5	40.5	40.4	(*)	2.2	2.2	2.6	2.6	—
3611	Electric measuring instruments	39.8	40.4	40.0	40.1	—	1.6	1.9	2.0	2.3	—
3612	Transformers	40.7	40.6	40.8	40.8	—	—	—	—	—	—
3613	Switchgear and switchboard apparatus	40.0	40.6	40.8	40.3	—	—	—	—	—	—
362	Electrical industrial apparatus	39.9	40.2	40.9	40.6	—	2.3	2.3	3.3	3.0	—
3621	Motors and generators	40.3	40.3	41.3	41.2	—	2.6	2.6	3.7	3.4	—
3622	Industrial controls	39.1	39.8	39.6	39.0	—	1.8	1.8	2.3	2.2	—
363	Household appliances	39.5	39.8	40.3	40.5	(*)	1.9	2.0	2.9	2.7	—
3632	Household refrigerators and freezers	39.0	39.6	43.1	42.1	—	—	—	—	—	—
3633	Household laundry equipment	38.9	38.3	37.5	37.8	—	—	—	—	—	—
3634	Electric housewares and fans	39.7	40.1	40.2	40.2	—	2.4	2.5	3.3	2.9	—
364	Electric lighting and wiring equipment	40.0	40.5	40.0	39.8	39.8	2.3	2.5	2.5	2.4	—
3641	Electric lamps	41.7	42.6	41.1	40.3	—	2.4	2.6	2.2	1.9	—
3642	Lighting fixtures	39.4	39.6	39.1	39.2	—	2.6	2.7	2.4	2.5	—
3643,4	Wiring devices	39.5	40.1	40.2	40.1	—	2.1	2.3	2.6	2.6	—
365	Radio and TV receiving equipment	39.4	39.3	39.7	39.7	(*)	2.9	2.5	2.3	2.4	—
366	Communication equipment	41.0	41.7	41.6	41.3	(*)	2.5	2.8	3.1	2.9	—
3661	Telephone and telegraph apparatus	41.5	42.2	42.1	41.3	—	—	—	—	—	—
3662	Radio and TV communication equipment	40.6	41.2	41.3	41.3	—	2.4	2.7	2.8	2.9	—
367	Electronic components and accessories	40.0	40.4	39.6	39.4	39.9	2.5	2.6	2.7	2.4	—
3671-3	Electron tubes	39.5	40.1	43.2	42.6	—	1.2	1.7	3.3	2.8	—
3674,9	Other electronic components	40.0	40.4	39.2	39.0	—	2.7	2.7	2.6	2.3	—
369	Miscellaneous electrical equip. and supplies	41.5	41.7	42.1	41.4	(*)	3.4	4.0	4.9	4.3	—
3694	Engine electrical equipment	41.1	41.5	42.0	40.8	—	—	—	—	—	—
37	TRANSPORTATION EQUIPMENT	41.4	42.0	42.8	42.8	42.5	4.2	4.2	5.0	5.4	—
371	Motor vehicles and equipment	42.4	43.3	44.6	44.8	(*)	5.4	5.4	6.5	7.0	—
3711	Motor vehicles	42.9	44.2	46.0	45.9	—	5.7	6.0	6.8	7.6	—
3712	Passenger car bodies	48.9	43.6	43.3	45.5	—	—	—	—	—	—
3713	Truck and bus bodies	39.9	39.9	40.6	40.3	—	—	—	—	—	—
3714	Motor vehicle parts and accessories	41.5	43.0	44.3	44.5	—	5.0	5.2	6.7	6.9	—
3715	Truck trailers	40.1	40.7	40.2	40.0	—	—	—	—	—	—
372	Aircraft and parts	41.0	41.5	41.9	41.9	41.8	3.0	2.9	3.8	3.9	—
3721	Aircraft	41.3	41.8	41.8	41.8	—	2.4	2.4	2.9	3.1	—
3722	Aircraft engines and engine parts	40.4	41.0	41.6	41.4	—	3.5	3.4	4.4	4.4	—
3723,9	Other aircraft parts and equipment	41.3	41.6	42.4	42.6	—	3.5	3.5	4.8	4.8	—
373	Ship and boat building and repairing	39.7	39.7	39.3	(*)	(*)	2.8	2.7	2.9	(*)	—
3731	Ship building and repairing	39.7	39.6	39.2	(*)	—	—	—	—	—	—
3732	Boat building and repairing	39.9	40.1	39.7	39.5	—	—	—	—	—	—
374	Railroad equipment	39.1	39.9	40.7	(*)	—	1.8	2.1	3.2	(*)	—
375,9	Other transportation equipment	39.4	39.1	39.7	39.3	—	2.5	2.6	2.8	2.5	—
38	INSTRUMENTS AND RELATED PRODUCTS	40.3	40.8	40.6	40.6	40.7	2.5	2.5	2.7	2.6	—
381	Engineering and scientific instruments	39.7	40.4	41.6	42.0	—	2.1	2.3	3.1	3.1	—
382	Mechanical measuring and control devices	40.3	40.7	40.6	40.4	41.0	2.6	2.7	3.1	2.8	—
3821	Mechanical measuring devices	41.0	41.5	41.2	40.8	—	2.9	2.9	3.5	3.2	—
3822	Automatic temperature controls	39.1	39.5	39.6	39.9	—	2.1	2.4	2.3	2.1	—
383,5	Optical and ophthalmic goods	39.7	40.4	40.6	40.4	40.5	2.3	2.4	2.4	2.1	—
385	Ophthalmic goods	38.5	39.6	39.3	39.2	—	2.0	2.1	1.6	1.5	—
384	Medical instruments and supplies	39.7	40.0	39.5	39.3	39.2	2.1	2.2	2.3	2.1	—
386	Photographic equipment and supplies	42.0	42.2	41.9	42.1	42.1	3.2	3.0	3.1	3.3	—
387	Watches, clocks, and watch cases	39.7	39.9	39.6	40.1	—	2.0	1.7	1.9	2.6	—
39	MISC. MANUFACTURING INDUSTRIES	38.9	39.3	39.2	39.3	39.4	2.2	2.1	2.3	2.4	—
391	Jewelry, silverware, and plated ware	40.1	40.4	39.7	40.2	40.3	3.7	3.6	2.8	3.3	—
394	Toys and sporting goods	38.7	38.9	38.7	38.7	—	1.9	1.4	1.7	1.9	—
3941-3	Games, toys, dolls and play vehicles	38.3	38.5	38.5	38.1	—	—	—	—	—	—
3949	Sporting and athletic goods, nec	39.2	39.2	39.0	39.5	—	—	—	—	—	—
395	Pens, pencils, office and art supplies	40.5	40.9	49.8	40.3	—	3.2	3.3	3.1	3.1	—
396	Costume jewelry and notions	37.2	39.0	38.3	38.3	—	1.4	1.7	2.0	2.2	—
393,9	Other manufacturing industries	39.1	39.2	39.6	39.6	39.6	2.1	2.1	2.5	2.5	—
393	Musical instruments and parts	39.2	39.5	40.0	40.3	—	1.6	2.0	1.7	1.9	—
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	40.4	40.4	40.2	39.6	40.0	4.0	3.8	4.5	4.0	—
201	Meat products	40.8	40.9	40.3	39.7	39.9	4.5	4.4	4.2	3.8	—
2011	Meat packing plants	42.4	42.8	41.8	41.5	—	5.2	5.3	4.7	4.3	—
2013	Sausages and other prepared meats	40.8	41.1	40.4	40.4	—	—	—	—	—	—
2015	Poultry dressing plants	38.9	38.3	38.4	37.1	—	—	—	—	—	—

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^p	Nov. 1977 ^p	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^p	Nov. 1977 ^p
	NONDURABLE GOODS—Continued										
	FOOD AND KINDRED PRODUCTS—Continued										
202	Dairy products	\$207.56	\$209.39	\$228.34	\$223.93	(*)	\$5.05	\$5.07	\$5.36	\$5.37	(*)
2024	Ice cream and frozen desserts	199.92	200.58	218.56	200.56	—	5.10	5.13	5.37	5.32	—
2026	Fluid milk	218.30	220.81	240.35	236.19	—	5.21	5.22	5.45	5.48	—
203	Canned, cured, and frozen foods	166.92	165.46	187.98	173.26	—	4.28	4.32	4.87	4.67	—
2031,6	Canned, cured, and frozen sea foods	135.19	138.00	141.04	141.17	—	3.93	4.00	4.10	4.14	—
2032,3	Canned food, except sea foods	173.36	172.60	202.00	180.42	—	4.40	4.46	5.14	4.85	—
2037	Frozen fruits and vegetables	165.64	163.98	172.04	169.02	—	4.10	4.12	4.40	4.39	—
204	Grain mill products	236.52	234.14	255.50	252.14	(*)	5.40	5.42	5.86	5.85	(*)
2041	Flour and other grain mill products	247.40	248.40	290.00	290.89	—	5.61	5.62	6.25	6.31	—
2042	Prepared feeds for animals and fowls	205.59	204.57	210.21	205.09	—	4.62	4.66	4.90	4.86	—
205	Bakery products	206.84	209.47	220.52	220.74	\$222.69	5.29	5.33	5.64	5.66	\$5.71
2051	Bread, cake, and related products	204.48	205.92	218.96	217.88	—	5.27	5.28	5.60	5.63	—
2052	Cookies and crackers	214.80	221.94	225.61	228.45	—	5.37	5.48	5.77	5.74	—
206	Sugar	206.98	208.08	255.76	224.62	—	5.24	5.10	6.41	5.88	—
207	Confectionery and related products	179.20	184.57	193.34	186.33	186.33	4.48	4.58	4.87	4.79	4.79
2071	Confectionery products	169.06	174.28	183.21	174.65	—	4.28	4.39	4.65	4.56	—
208	Beverages	246.02	242.57	262.35	260.04	(*)	6.12	6.11	6.51	6.56	(*)
2082	Malt liquors	345.44	339.71	362.04	352.97	—	8.09	8.05	8.62	8.63	—
2086	Bottled and canned soft drinks	174.41	177.41	189.34	182.57	—	4.53	4.62	4.83	4.84	—
209	Miscellaneous foods and kindred products ..	206.49	212.50	214.76	215.48	219.34	4.94	5.00	5.20	5.23	5.26
21	TOBACCO MANUFACTURES	181.50	185.55	211.58	210.28	213.70	4.69	4.87	5.37	5.31	5.41
211	Cigarettes	230.58	237.31	265.59	262.27	—	6.10	6.18	6.81	6.83	—
212	Cigars	121.92	126.21	137.48	135.94	—	3.26	3.33	3.42	3.39	—
22	TEXTILE MILL PRODUCTS	149.71	152.40	165.65	165.65	166.87	3.79	3.81	4.08	4.08	4.09
221	Weaving mills, cotton	162.36	163.56	173.72	174.58	178.40	3.96	3.97	4.30	4.30	4.33
222	Weaving mills, synthetics	158.40	160.80	177.55	177.53	180.13	3.98	3.99	4.32	4.33	4.33
223	Weaving and finishing mills, wool	159.08	158.73	167.20	170.87	170.00	3.88	3.90	4.18	3.24	4.25
224	Narrow fabric mills	138.77	141.33	149.48	148.90	153.44	3.54	3.56	3.70	3.76	3.77
225	Knitting mills	134.52	138.16	147.03	148.55	149.71	3.54	3.57	3.77	3.78	3.79
2251	Women's hosiery, except socks	125.73	129.63	134.68	136.11	—	3.30	3.29	3.48	3.49	—
2252	Hosiery, nec.	121.69	123.75	135.26	140.54	—	3.28	3.30	3.55	3.54	—
2253	Knit outerwear mills	136.47	138.37	140.62	143.64	—	3.62	3.68	3.73	3.78	—
2254	Knit underwear mills	123.38	127.05	132.00	134.90	—	3.29	3.30	3.52	3.55	—
226	Textile finishing, except wool	161.11	165.21	181.79	180.09	178.32	4.11	4.12	4.37	4.35	4.36
227	Floor covering mills	157.85	159.44	182.71	179.35	—	3.85	3.87	4.21	4.21	—
228	Yarn and thread mills	137.39	139.20	159.42	157.03	159.80	3.55	3.56	3.86	3.83	3.86
229	Miscellaneous textile goods	169.32	169.73	182.01	184.64	185.51	4.08	4.08	4.45	4.46	4.47
23	APPAREL AND OTHER TEXTILE PRODUCTS	123.20	123.90	130.64	132.10	132.46	3.49	3.50	3.68	3.69	3.70
231	Men's and boys' suits and coats	153.51	157.25	162.63	161.17	158.40	4.30	4.32	4.53	4.54	4.50
232	Men's and boys' furnishings	112.37	114.08	118.83	120.18	(*)	3.13	3.16	3.31	3.32	(*)
2321	Men's and boys' shirts and nightwear	110.93	111.29	114.37	115.34	—	3.09	3.10	3.24	3.24	—
2327	Men's and boys' separate trousers	111.62	112.03	118.94	121.34	—	3.18	3.21	3.36	3.38	—
2328	Men's and boys' work clothing	112.85	114.20	118.86	119.51	—	3.05	3.07	3.23	3.23	—
233	Women's and misses' outerwear	118.11	118.44	124.36	125.83	125.02	3.59	3.60	3.78	3.79	3.80
2331	Women's and misses' blouses and waists ..	115.60	115.94	118.52	122.78	—	3.38	3.42	3.57	3.59	—
2335	Women's and misses' dresses	116.02	115.07	122.68	123.17	—	3.66	3.63	3.87	3.91	—
2337	Women's and misses' suits and coats	132.19	135.01	140.48	140.18	—	4.17	4.18	4.27	4.30	—
2339	Women's and misses' outerwear, nec	115.19	116.25	122.15	124.60	—	3.31	3.35	3.51	3.50	—
234	Women's and children's undergarments	116.48	115.28	124.32	127.13	126.48	3.20	3.22	3.36	3.39	3.40
2341	Women's and children's underwear	113.46	112.05	120.25	123.05	—	3.10	3.13	3.25	3.29	—
2342	Corsets and allied garments	125.66	127.44	129.50	140.99	—	3.51	3.54	3.74	3.73	—
235	Hats, caps, and millinery	111.75	114.14	123.17	124.92	—	2.98	3.06	3.32	3.34	—
236	Children's outerwear	112.50	113.34	117.95	119.26	119.65	3.16	3.22	3.37	3.35	3.38
2361	Children's dresses and blouses	113.53	112.35	113.56	118.86	—	3.18	3.21	3.34	3.32	—
237,8	Fur goods and miscellaneous apparel	129.24	130.65	135.77	138.74	—	3.58	3.56	3.73	3.76	—
239	Miscellaneous fabricated textile products ..	150.11	147.05	160.99	163.88	163.96	3.94	3.88	4.16	4.17	4.13
2391,2	Housefurnishings	122.15	123.93	135.14	138.38	—	3.24	3.27	3.51	3.53	—
26	PAPER AND ALLIED PRODUCTS	235.61	239.41	261.62	261.69	260.83	5.57	5.62	6.07	6.10	6.08
261,2,6	Paper and pulp mills	277.39	280.04	311.61	311.75	(*)	6.29	6.35	6.94	6.99	(*)
263	Paperboard mills	283.84	289.52	316.60	317.63	321.56	6.51	6.58	7.02	7.09	7.13
264	Miscellaneous converted paper products	202.28	205.41	220.58	222.48	(*)	4.97	5.01	5.38	5.40	(*)
2643	Bags, except textile bags	196.73	198.58	213.09	211.23	—	4.81	4.82	5.21	5.19	—
265	Paperboard containers and boxes	209.25	212.01	232.60	231.68	232.35	5.03	5.06	5.46	5.49	5.48
2651,2	Folding and setup paperboard boxes	195.35	202.50	216.83	218.71	—	4.73	4.81	5.25	5.27	—
2653	Corrugated and solid fiber boxes	224.17	222.26	249.96	247.83	—	5.35	5.33	5.72	5.75	—
2654	Sanitary food containers	198.43	201.60	216.58	215.39	—	4.77	4.80	5.12	5.19	—

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P
	NONDURABLE GOODS—Continued										
	FOOD AND KINDRED PRODUCTS—										
	Continued										
202	Dairy products	41.1	41.3	42.6	41.7	(*)	3.8	3.8	4.8	4.1	—
2024	Ice cream and frozen desserts	39.2	39.1	40.7	37.7	—	—	—	—	—	—
2026	Fluid milk	41.9	42.3	44.1	43.1	—	—	—	—	—	—
203	Canned, cured, and frozen foods	39.0	38.3	38.6	37.1	—	3.5	2.8	4.7	3.1	—
2031,6	Canned, cured, and frozen sea foods	34.4	34.5	34.4	34.1	—	—	—	—	—	—
2032,3	Canned food, except sea foods	39.4	38.7	39.3	37.2	—	—	—	—	—	—
2037	Frozen fruits and vegetables	40.4	39.8	39.1	38.5	—	—	—	—	—	—
204	Grain mill products	43.8	43.2	43.6	43.1	(*)	5.8	5.4	6.6	6.2	—
2041	Flour and other grain mill products	44.1	44.2	46.4	46.1	—	—	—	—	—	—
2042	Prepared feeds for animals and fowls	44.5	43.9	42.9	42.2	—	—	—	—	—	—
205	Bakery products	39.1	39.3	39.1	39.0	39.0	3.3	3.4	3.7	3.7	—
2061	Bread, cake, and related products	38.8	39.0	39.1	38.7	—	—	—	—	—	—
2052	Cookies and crackers	40.0	40.5	39.1	39.8	—	—	—	—	—	—
206	Sugar	39.5	40.8	39.9	38.2	—	4.2	3.2	4.2	5.0	—
207	Confectionery and related products	40.0	40.3	39.7	38.9	38.9	2.7	3.2	3.2	3.4	—
2071	Confectionery products	39.5	39.7	39.4	38.3	—	—	—	—	—	—
208	Beverages	40.2	39.7	40.3	39.7	(*)	4.0	3.4	4.3	4.0	—
2082	Malt liquors	42.7	42.2	42.0	40.9	—	—	—	—	—	—
2086	Bottled and canned soft drinks	38.5	38.4	39.2	37.8	—	—	—	—	—	—
209	Miscellaneous foods and kindred products	41.8	42.5	41.3	41.2	41.7	4.8	4.8	4.6	4.7	—
21	TOBACCO MANUFACTURES	38.7	38.1	39.4	39.6	39.5	1.8	2.4	2.2	2.3	—
211	Cigarettes	37.8	38.4	39.0	38.4	—	1.5	2.1	2.2	2.0	—
212	Cigars	37.4	37.9	40.2	40.1	—	.9	.8	1.4	1.1	—
22	TEXTILE MILL PRODUCTS	39.5	40.0	40.6	40.6	40.8	3.1	3.2	3.7	3.6	—
221	Weaving mills, cotton	41.0	41.2	40.4	40.6	41.2	3.7	3.8	3.9	3.9	—
222	Weaving mills, synthetics	39.8	40.3	41.1	41.0	41.6	3.4	3.5	3.5	3.6	—
223	Weaving and finishing mills, wool	41.0	40.7	40.0	40.3	40.0	3.3	3.0	3.1	3.6	—
224	Narrow fabric mills	39.2	39.7	40.4	39.6	40.7	2.9	2.7	2.9	3.1	—
225	Knitting mills	38.0	38.7	39.0	39.3	39.5	2.5	2.6	3.0	2.9	—
2251	Women's hosiery, except socks	38.1	39.4	38.7	39.0	—	—	—	—	—	—
2252	Hosiery, nec	37.1	37.5	38.1	39.7	—	—	—	—	—	—
2253	Knit outerwear mills	37.7	37.6	37.7	38.0	—	—	—	—	—	—
2254	Knit underwear mills	37.5	38.5	37.5	38.0	—	—	—	—	—	—
226	Textile finishing, except wool	39.2	40.1	41.6	41.4	40.9	2.9	3.2	4.4	3.9	—
227	Floor covering mills	41.0	41.2	43.4	42.6	—	3.5	3.6	5.2	4.5	—
228	Yarn and thread mills	38.7	39.1	41.3	41.0	41.4	2.6	2.9	3.9	3.7	—
229	Miscellaneous textile goods	41.5	41.6	40.9	41.4	41.5	3.8	3.8	4.0	4.2	—
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.3	35.4	35.5	35.8	35.8	1.2	1.2	1.4	1.4	—
231	Men's and boys' suits and coats	35.7	36.4	35.9	35.5	35.2	.9	1.1	.7	.6	—
232	Men's and boys' furnishings	35.9	36.1	35.9	36.2	(*)	1.0	1.1	1.2	1.2	—
2321	Men's and boys' shirts and nightwear	35.9	35.9	35.3	35.6	—	1.1	1.0	.9	1.1	—
2327	Men's and boys' separate trousers	35.1	34.9	35.4	35.9	—	.8	.9	1.4	1.3	—
2328	Men's and boys' work clothing	37.0	37.2	36.8	37.0	—	1.0	1.1	1.2	1.2	—
233	Women's and misses' outerwear	32.9	32.9	32.9	33.2	32.9	.9	1.0	1.0	1.1	—
2331	Women's and misses' blouses and waists	34.2	33.9	33.2	34.2	—	—	—	—	—	—
2335	Women's and misses' dresses	31.7	31.7	31.7	31.5	—	.8	.9	.8	.9	—
2337	Women's and misses' suits and coats	31.7	32.3	32.9	32.6	—	.8	.8	1.3	1.3	—
2339	Women's and misses' outerwear, nec	34.8	34.7	34.8	35.6	—	1.2	1.2	1.3	1.4	—
234	Women's and children's undergarments	36.4	35.8	37.0	37.5	37.2	1.4	1.2	1.4	1.6	—
2341	Women's and children's underwear	36.6	35.8	37.0	37.4	—	—	—	—	—	—
2342	Corsets and allied garments	35.8	36.0	37.3	37.8	—	—	—	—	—	—
235	Hats, caps, and millinery	37.5	37.3	37.1	37.4	—	1.7	1.5	1.1	1.1	—
236	Children's outerwear	35.6	35.2	35.0	35.6	35.4	1.1	1.3	1.5	1.5	—
2361	Children's dresses and blouses	35.7	35.0	34.0	35.8	—	—	—	—	—	—
237,8	Fur goods and miscellaneous apparel	36.1	36.7	36.4	36.9	—	1.2	1.2	1.6	1.6	—
239	Miscellaneous fabricated textile products	38.1	37.9	38.7	39.3	39.7	2.3	1.9	2.6	2.8	—
2391,2	Housefurnishings	37.7	37.9	38.5	39.2	—	—	—	—	—	—
26	PAPER AND ALLIED PRODUCTS	42.3	42.6	43.1	42.9	42.9	4.6	4.6	5.1	5.0	—
261,2,6	Paper and pulp mills	44.1	44.1	44.9	44.6	(*)	6.0	5.9	6.4	6.4	—
263	Paperboard mills	43.6	44.0	45.1	44.8	45.1	6.7	6.9	7.4	7.2	—
264	Miscellaneous converted paper products	40.7	41.0	41.0	41.2	(*)	3.4	3.3	3.8	3.8	—
2643	Bags, except textile bags	40.9	41.2	40.9	40.7	—	—	—	—	—	—
265	Paperboard containers and boxes	41.6	41.9	42.6	42.2	42.4	3.7	3.6	4.4	4.2	—
2651,2	Folding and setup paperboard boxes	41.3	42.1	41.3	41.5	—	—	—	—	—	—
2653	Corrugated and solid fiber boxes	41.9	41.7	43.7	43.1	—	4.2	3.7	5.1	4.9	—
2654	Sanitary food containers	41.6	42.0	42.3	41.5	—	—	—	—	—	—

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**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^p	Nov. 1977 ^p	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^p	Nov. 1977 ^p
	NONDURABLE GOODS—Continued										
27	PRINTING AND PUBLISHING	\$216.95	\$220.00	\$237.84	\$236.74	\$239.13	\$5.77	\$5.82	\$6.21	\$6.23	\$6.26
271	Newspapers	219.22	220.85	233.22	235.29	237.00	6.41	6.42	6.76	6.82	6.83
272	Periodicals	225.17	222.53	245.53	239.63	—	5.91	5.95	6.53	6.39	—
273	Books	196.60	197.88	219.65	211.14	—	5.08	5.10	5.41	5.40	—
275	Commercial printing	223.68	228.34	249.32	246.96	248.77	5.75	5.84	6.28	6.30	6.33
2751	Commercial printing, except lithographic	217.23	223.79	241.38	237.90	—	5.57	5.68	6.08	6.10	—
2752	Commercial printing, lithographic	234.69	236.23	262.42	260.43	—	6.08	6.12	6.61	6.61	—
278	Blankbooks and bookbinding	174.33	178.82	188.10	188.64	187.68	4.47	4.55	4.75	4.80	4.80
274,6,7,9	Other publishing and printing ind	218.30	223.26	240.91	241.30	(*)	5.67	5.71	6.13	6.14	(*)
28	CHEMICALS AND ALLIED PRODUCTS	251.26	254.56	272.54	273.31	275.46	6.04	6.09	6.52	6.57	6.59
281	Industrial chemicals	287.90	288.58	312.56	313.65	315.13	6.79	6.79	7.32	7.38	7.38
2812	Alkalies and chlorine	299.84	296.92	323.79	332.30	—	6.83	6.81	7.53	7.71	—
2818	Industrial organic chemicals, nec	311.32	311.16	335.98	339.34	—	7.24	7.27	7.85	7.91	—
2819	Industrial inorganic chemicals, nec	271.83	279.60	302.60	298.45	—	6.55	6.61	7.12	7.14	—
282	Plastics materials and synthetics	242.08	246.74	266.24	266.02	268.13	5.89	5.96	6.40	6.41	6.43
2821	Plastics materials and resins	264.63	273.06	334.66	288.58	—	6.14	6.22	6.62	6.68	—
2823,4	Synthetic fibers	216.86	218.04	242.60	237.98	—	5.49	5.52	5.99	5.92	—
283	Drugs	232.22	235.57	243.79	247.66	248.07	5.65	5.69	5.99	6.10	6.11
2834	Pharmaceutical preparations	227.14	230.87	238.00	241.40	—	5.54	5.59	5.95	6.02	—
284	Soap, cleaners, and toilet goods	235.91	238.86	250.69	248.88	(*)	5.74	5.84	6.07	6.10	(*)
2841	Soap and other detergents	310.86	314.81	334.62	332.59	—	7.28	7.39	7.80	7.90	—
2844	Toilet preparations	190.07	190.08	198.68	195.20	—	4.74	4.80	4.93	4.88	—
285	Paints and allied products	223.99	224.52	246.38	245.18	(*)	5.49	5.53	5.98	5.98	(*)
287	Agricultural chemicals	233.69	236.26	256.10	257.18	262.36	5.46	5.52	6.04	6.08	6.13
2871,2	Fertilizers, complete and mixing only	219.56	221.09	239.42	239.64	—	5.13	5.19	5.66	5.67	—
286,9	Other chemical products	233.79	238.01	250.47	249.89	252.95	5.62	5.64	6.05	6.09	6.11
2892	Explosives	237.97	236.17	233.92	239.17	—	5.56	5.57	5.79	5.92	—
29	PETROLEUM AND COAL PRODUCTS	306.00	307.10	338.09	341.73	341.12	7.20	7.26	7.79	7.82	7.86
291	Petroleum refining	329.22	334.11	365.51	369.79	373.24	7.82	7.88	8.52	8.56	8.60
295,9	Other petroleum and coal products	240.12	230.29	265.66	265.36	(*)	5.52	5.47	5.93	5.91	(*)
30	RUBBER AND PLASTICS PRODUCTS, NEC	199.75	204.52	212.38	213.20	212.57	4.86	4.94	5.18	5.20	5.21
301	Tires and inner tubes	310.25	329.94	312.91	311.03	308.98	6.73	7.05	7.21	7.25	7.27
302,3,6	Other rubber products	197.62	197.96	211.04	215.78	212.45	4.82	4.84	5.16	5.25	5.22
302	Rubber footwear	127.39	131.30	138.30	139.11	—	3.49	3.52	3.63	3.69	—
307	Miscellaneous plastics products	167.53	169.60	182.96	183.37	184.57	4.22	4.24	4.54	4.55	4.58
31	LEATHER AND LEATHER PRODUCTS	125.96	127.75	136.89	138.00	140.99	3.47	3.50	3.67	3.68	3.72
311	Leather tanning and finishing	175.49	174.19	192.67	193.64	(*)	4.57	4.56	4.89	4.89	(*)
314	Footwear, except rubber	116.82	119.93	129.48	130.57	134.21	3.30	3.35	3.49	3.51	3.56
312,3,5-7,9	Other leather products	130.50	131.22	136.15	137.99	138.73	3.48	3.49	3.66	3.67	3.67
316	Luggage	134.64	134.68	139.43	140.87	—	3.60	3.64	3.82	3.87	—
317	Handbags and personal leather goods	124.08	125.21	133.50	136.35	—	3.30	3.33	3.56	3.56	—
	TRANSPORTATION AND PUBLIC UTILITIES	265.20	267.33	284.71	285.91	287.92	6.63	6.65	7.10	7.13	7.18
4011	RAILROAD TRANSPORTATION: Class I railroads ²	297.22	312.65	331.25	(*)	—	7.01	7.01	7.58	(*)	—
411	LOCAL AND INTERURBAN PASSENGER TRANSIT: Local and suburban transportation	228.98	227.70	240.16	238.76	—	5.64	5.65	6.08	6.06	—
413	Intercity highway transportation	266.63	257.26	280.05	281.99	—	6.75	6.77	7.61	7.56	—
42	TRUCKING AND WAREHOUSING	267.90	268.96	288.56	289.88	—	6.55	6.56	7.09	7.14	—
421,3	Trucking and trucking terminals	274.70	276.19	296.53	298.25	—	6.70	6.72	7.25	7.31	—
422	Public warehousing	189.29	191.92	197.49	195.83	—	4.78	4.81	5.17	5.14	—
46	PIPE LINE TRANSPORTATION	322.75	315.05	342.34	344.43	—	7.63	7.61	8.19	8.36	—
48	COMMUNICATION	262.68	262.68	282.46	284.52	—	6.65	6.65	6.94	7.06	—
481	Telephone communication	267.81	267.42	287.94	290.48	—	6.78	6.77	7.04	7.19	—
4817	Switchboard operating employees ³	200.80	196.65	207.68	215.84	—	5.77	5.75	5.85	6.08	—
4818	Line construction employees ⁴	343.22	341.14	382.72	388.42	—	7.89	7.86	8.43	8.67	—
482	Telegraph communication ⁵	250.20	268.54	(*)	(*)	—	6.00	6.68	(*)	(*)	—
483	Radio and television broadcasting	244.51	243.54	257.94	257.94	—	6.19	6.15	6.58	6.58	—

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977P	Nov. 1977P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977P	Nov. 1977P
NONDURABLE GOODS—Continued											
27	PRINTING AND PUBLISHING	37.6	37.8	38.3	38.0	38.2	2.6	2.6	3.3	3.1	—
271	Newspapers	34.2	34.4	34.5	34.5	34.7	1.8	1.9	2.0	2.0	—
272	Periodicals	38.1	37.4	37.6	37.5	—	2.2	1.6	3.5	3.1	—
273	Books	38.7	38.8	40.6	39.1	—	2.5	2.5	4.7	3.7	—
275	Commercial printing	38.9	39.1	39.7	39.2	39.3	3.1	3.1	4.0	3.6	—
2751	Commercial printing, except lithographic	39.0	39.4	39.7	39.0	—	3.2	3.2	3.7	3.3	—
2752	Commercial printing, lithographic	38.6	38.6	39.7	39.4	—	3.1	2.9	4.3	4.0	—
278	Blankbooks and bookbinding	39.0	39.3	39.6	39.3	39.1	2.5	2.6	2.8	2.8	—
274,6,7,9	Other publishing and printing ind.	38.5	39.1	39.3	39.3	(*)	2.7	2.8	3.4	3.2	—
28	CHEMICALS AND ALLIED PRODUCTS	41.6	41.8	41.8	41.6	41.8	3.3	3.2	3.6	3.4	—
281	Industrial chemicals	42.4	42.5	42.7	42.5	42.7	3.9	3.6	4.1	3.9	—
2812	Alkalies and chlorine	43.9	4.36	43.0	43.1	—	—	—	—	—	—
2818	Industrial organic chemicals, nec.	43.0	42.8	42.8	42.9	—	4.0	4.0	4.0	4.0	—
2819	Industrial inorganic chemicals, nec.	41.5	42.3	42.5	41.8	—	3.6	3.5	4.0	3.2	—
282	Plastics materials and synthetics	41.1	41.4	41.6	41.5	41.7	2.7	2.8	3.4	3.0	—
2821	Plastics materials and resins	43.1	43.9	43.0	43.2	—	4.5	4.6	4.9	4.7	—
2823,4	Synthetic fibers	39.5	39.5	40.5	40.2	—	1.4	1.3	2.4	1.8	—
283	Drugs	41.1	41.4	40.7	40.6	40.6	2.9	2.9	2.6	2.8	—
2834	Pharmaceutical preparations	41.0	41.3	40.0	40.1	—	—	—	—	—	—
284	Soap, cleaners, and toilet goods	41.1	40.9	41.3	40.8	(*)	3.3	3.0	3.4	3.0	—
2841	Soap and other detergents	42.7	42.6	42.9	42.1	—	—	—	—	—	—
2844	Toilet preparations	40.1	39.6	40.3	40.0	—	—	—	—	—	—
285	Paints and allied products	40.8	40.6	41.2	41.0	(*)	2.7	2.2	3.8	3.4	—
287	Agricultural chemicals	42.8	42.8	42.4	42.3	42.8	4.4	4.4	4.7	4.6	—
2871,2	Fertilizers, complete and mixing only	42.8	42.6	42.3	42.3	—	—	—	—	—	—
286,9	Other chemical products	41.6	42.2	41.4	41.0	41.4	3.4	3.5	3.6	3.3	—
2892	Explosives	42.8	42.4	40.4	40.4	—	—	—	—	—	—
29	PETROLEUM AND COAL PRODUCTS	42.5	42.3	43.4	43.7	43.4	3.6	3.3	4.3	4.3	—
291	Petroleum refining	42.1	42.4	42.9	43.2	43.4	3.0	3.0	3.5	3.7	—
295,9	Other petroleum and coal products	43.5	42.1	44.8	44.9	(*)	5.1	4.2	6.5	5.8	—
30	RUBBER AND PLASTICS PRODUCTS, NEC	41.1	41.4	41.0	41.0	40.8	3.9	4.0	3.7	3.7	—
301	Tires and inner tubes	46.1	46.8	43.4	42.9	42.5	7.7	8.2	5.0	4.8	—
302,3,6	Other rubber products	41.0	40.9	40.9	41.1	40.7	3.6	3.5	3.5	3.7	—
302	Rubber footwear	36.5	37.3	38.1	37.7	—	.7	1.0	1.7	1.7	—
307	Miscellaneous plastics products	39.7	40.0	40.3	40.3	40.3	2.9	2.9	3.4	3.4	—
31	LEATHER AND LEATHER PRODUCTS	36.3	36.5	37.3	37.5	37.9	1.6	1.6	1.9	2.0	—
311	Leather tanning and finishing	38.4	38.2	39.4	39.6	(*)	2.3	2.4	2.8	2.8	—
314	Footwear, except rubber	35.4	35.8	37.1	37.2	37.7	1.2	1.3	1.6	1.7	—
312,3,5,7,9	Other leather products	37.5	37.6	37.2	37.6	37.8	2.1	2.0	2.2	2.3	—
316	Luggage	37.4	37.0	36.5	36.4	—	2.4	1.9	2.2	2.3	—
317	Handbags and personal leather goods	37.6	37.6	37.5	38.3	—	2.3	2.3	2.7	2.7	—
TRANSPORTATION AND PUBLIC UTILITIES											
RAILROAD TRANSPORTATION:											
4011	Class I railroads ²	42.4	44.6	43.7	(*)	—	—	—	—	—	—
LOCAL AND INTERURBAN PASSENGER TRANSIT:											
411	Local and suburban transportation	40.6	40.3	39.5	39.4	—	—	—	—	—	—
413	Intercity highway transportation	39.5	38.0	36.8	37.3	—	—	—	—	—	—
42	TRUCKING AND WAREHOUSING	40.9	41.0	40.7	40.6	—	—	—	—	—	—
421,3	Trucking and trucking terminals	41.0	41.1	40.9	40.8	—	—	—	—	—	—
422	Public warehousing	39.6	39.9	38.2	38.1	—	—	—	—	—	—
46	PIPE LINE TRANSPORTATION	42.3	41.4	41.8	41.2	—	—	—	—	—	—
48	COMMUNICATION	39.5	39.5	40.7	40.3	—	—	—	—	—	—
481	Telephone communication	39.5	39.5	40.9	40.4	—	—	—	—	—	—
4817	Switchboard operating employees ³	34.8	34.2	35.5	35.5	—	—	—	—	—	—
4818	Line construction employees ⁴	43.5	43.4	45.4	44.8	—	—	—	—	—	—
482	Telegraph communication ⁵	41.7	40.2	(*)	(*)	—	—	—	—	—	—
483	Radio and television broadcasting	39.5	39.6	39.2	39.2	—	—	—	—	—	—

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P
-	TRANSPORTATION AND PUBLIC UTILITIES—Continued										
49	ELECTRIC, GAS, AND SANITARY SERVICES	\$281.06	\$283.14	\$296.12	\$298.60	-	\$6.74	\$6.79	\$7.17	\$7.23	-
491	Electric companies and systems	281.63	284.54	302.52	300.66	-	6.77	6.84	7.22	7.21	-
492	Gas companies and systems	256.63	258.67	274.73	286.49	-	6.29	6.34	6.75	6.92	-
493	Combination companies and systems	319.82	320.88	325.19	326.03	-	7.49	7.55	7.99	8.05	-
494-7	Water, steam, and sanitary systems	226.85	226.72	239.04	243.53	-	5.44	5.45	5.76	5.84	-
	WHOLESALE AND RETAIL TRADE	135.20	135.46	144.52	145.52	\$143.77	4.06	4.08	4.34	4.37	\$4.37
50	WHOLESALE TRADE	204.34	205.50	219.01	222.09	220.56	5.28	5.31	5.63	5.68	5.67
501	Motor vehicles and automotive equipment	181.81	183.69	196.45	197.73	-	4.71	4.71	5.05	5.07	-
502	Drugs, chemicals, and allied products	216.41	215.27	232.32	232.93	-	5.68	5.71	6.05	6.05	-
503	Dry goods and apparel	168.86	169.45	180.85	183.24	-	4.77	4.72	5.08	5.09	-
504	Groceries and related products	196.99	199.82	218.48	219.26	-	5.13	5.19	5.66	5.71	-
506	Electrical goods	224.97	228.23	232.43	240.79	-	5.71	5.72	5.84	6.05	-
507	Hardware, plumbing and heating equipment	192.65	194.04	210.50	213.70	-	5.03	5.04	5.37	5.41	-
508	Machinery, equipment, and supplies	226.46	226.69	239.99	244.22	-	5.69	5.71	5.97	6.06	-
509	Miscellaneous wholesalers	200.41	201.78	214.68	217.14	-	5.26	5.31	5.62	5.64	-
52-59	RETAIL TRADE	115.43	115.02	122.61	123.56	121.29	3.63	3.64	3.88	3.91	3.90
53	Retail general merchandise [†]	106.79	105.79	116.59	116.21	-	3.49	3.48	3.81	3.81	-
531	Department stores [†]	109.38	107.34	119.59	119.59	-	3.61	3.59	3.96	3.96	-
532	Mail order houses	143.40	142.90	158.18	156.49	-	4.23	4.13	4.68	4.63	-
533	Variety stores	85.26	86.13	91.16	89.01	-	2.89	2.90	3.09	3.08	-
54	Food stores	142.56	143.86	153.90	153.60	-	4.40	4.44	4.75	4.80	-
541-3	Grocery, meat, and vegetable stores	147.27	148.46	158.60	158.27	-	4.49	4.54	4.85	4.90	-
56	Apparel and accessory stores	98.37	98.04	103.06	103.60	-	3.29	3.29	3.47	3.50	-
561	Men's and boys' clothing and furnishings	123.20	123.45	127.19	129.77	-	3.85	3.87	3.95	4.03	-
562	Women's ready-to-wear stores	85.24	84.65	88.66	88.97	-	2.97	2.97	3.10	3.10	-
565	Family clothing stores	97.61	96.67	102.18	100.84	-	3.19	3.18	3.35	3.35	-
566	Shoe stores	102.26	101.67	112.01	111.55	-	3.49	3.47	3.81	3.86	-
57	Furniture and home furnishings stores	151.73	151.68	159.22	159.31	-	4.18	4.19	4.46	4.45	-
571	Furniture and home furnishings	156.22	156.95	163.35	162.99	-	4.28	4.30	4.55	4.54	-
58	Eating and drinking places ⁶	76.45	76.72	79.99	80.85	-	2.78	2.80	2.93	2.94	-
52,55,59	Other retail trade	144.11	144.08	154.64	155.36	-	3.97	3.98	4.26	4.28	-
52	Building materials and farm equipment	164.79	163.49	176.76	177.46	-	4.13	4.16	4.43	4.47	-
551,2	Motor vehicle dealers	190.39	190.00	208.50	209.97	-	4.82	4.81	5.36	5.37	-
553,9	Other automotive and accessory dealers	163.14	163.93	182.86	181.49	-	4.13	4.15	4.56	4.56	-
591	Drug stores and proprietary stores	106.18	106.18	112.32	112.11	-	3.47	3.47	3.60	3.64	-
594	Book and stationery stores	121.11	121.18	131.32	131.77	-	3.67	3.65	3.92	3.91	-
598	Fuel and ice dealers	182.74	193.99	187.98	197.41	-	4.58	4.72	4.82	4.96	-
	FINANCE, INSURANCE, AND REAL ESTATE⁷	161.85	161.04	169.73	173.22	171.55	4.41	4.40	4.65	4.72	4.70
60	Banking	136.15	136.14	142.30	144.20	-	3.73	3.74	3.92	3.94	-
61	Credit agencies other than banks	145.10	145.84	154.91	159.94	-	3.89	3.91	4.12	4.22	-
612	Savings and loan associations	139.85	139.83	146.12	152.59	-	3.79	3.81	3.96	4.08	-
62	Security, commodity brokers and services	297.60	287.23	278.21	(*)	-	7.75	7.48	7.36	(*)	-
63	Insurance carriers	172.23	172.33	181.54	184.14	-	4.62	4.62	4.88	4.95	-
631	Life insurance	168.35	168.81	176.75	179.08	-	4.55	4.55	4.79	4.84	-
632	Accident and health insurance	169.73	168.52	179.83	184.79	-	4.42	4.40	4.77	4.85	-
633	Fire, marine, and casualty insurance	175.68	175.21	184.51	186.61	-	4.71	4.71	4.96	5.03	-

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P
	TRANSPORTATION AND PUBLIC UTILITIES—Continued										
49	ELECTRIC, GAS, AND SANITARY SERVICES										
	Electric companies and systems	41.7	41.7	41.3	41.3	—	—	—	—	—	
491	Electric companies and systems	41.6	41.6	41.9	41.7	—	—	—	—	—	
492	Gas companies and systems	40.8	40.8	40.7	41.4	—	—	—	—	—	
493	Combination companies and systems	42.7	42.5	40.7	40.5	—	—	—	—	—	
494-7	Water, steam, and sanitary systems	41.7	41.6	41.5	41.7	—	—	—	—	—	
	WHOLESALE AND RETAIL TRADE	33.3	33.2	33.3	33.3	32.9	—	—	—	—	
50	WHOLESALE TRADE	38.7	38.7	38.9	39.1	38.9	—	—	—	—	
501	Motor vehicles and automotive equipment	38.6	39.0	38.9	39.0	—	—	—	—	—	
502	Drugs, chemicals, and allied products	38.1	37.7	38.4	38.5	—	—	—	—	—	
503	Dry goods and apparel	35.4	35.9	35.6	36.0	—	—	—	—	—	
504	Groceries and related products	38.4	38.5	38.6	38.4	—	—	—	—	—	
506	Electrical goods	39.4	39.9	39.8	39.8	—	—	—	—	—	
507	Hardware; plumbing and heating equipment	38.3	38.5	39.2	39.5	—	—	—	—	—	
508	Machinery, equipment, and supplies	39.8	39.7	40.2	40.3	—	—	—	—	—	
509	Miscellaneous wholesalers	38.1	38.0	38.2	38.5	—	—	—	—	—	
52-59	RETAIL TRADE	31.8	31.6	31.6	31.6	31.1	—	—	—	—	
53	Retail general merchandise	30.6	30.4	30.6	30.5	—	—	—	—	—	
531	Department stores	30.3	29.9	30.2	30.2	—	—	—	—	—	
532	Mail order houses	33.9	34.6	33.8	33.8	—	—	—	—	—	
533	Variety stores	29.5	29.7	29.5	28.9	—	—	—	—	—	
54	Food stores	32.4	32.4	32.4	32.0	—	—	—	—	—	
541-3	Grocery, meat, and vegetable stores	32.8	32.7	32.7	32.3	—	—	—	—	—	
56	Apparel and accessory stores	29.9	29.8	29.7	29.6	—	—	—	—	—	
561	Men's and boys' clothing and furnishings	32.0	31.9	32.2	32.2	—	—	—	—	—	
562	Women's ready-to-wear stores	28.7	28.5	28.6	28.7	—	—	—	—	—	
563	Family clothing stores	30.6	30.4	30.5	30.1	—	—	—	—	—	
566	Shoe stores	29.3	29.3	29.4	28.9	—	—	—	—	—	
57	Furniture and home furnishings stores	36.3	36.2	35.7	35.8	—	—	—	—	—	
571	Furniture and home furnishings	36.5	36.5	35.9	35.9	—	—	—	—	—	
58	Eating and drinking places ^b	27.5	27.4	27.3	27.5	—	—	—	—	—	
52,55,59	Other retail trade	36.3	36.2	36.3	36.3	—	—	—	—	—	
52	Building materials and farm equipment	39.9	39.3	39.9	39.7	—	—	—	—	—	
551,2	Motor vehicle dealers	39.5	39.5	38.9	39.1	—	—	—	—	—	
553,9	Other automotive and accessory dealers	39.5	39.5	40.1	39.8	—	—	—	—	—	
591	Drug stores and proprietary stores	30.6	30.6	31.2	30.8	—	—	—	—	—	
594	Book and stationery stores	33.0	33.2	33.5	33.7	—	—	—	—	—	
598	Fuel and ice dealers	39.9	41.1	39.0	39.8	—	—	—	—	—	
	FINANCE, INSURANCE, AND REAL ESTATE⁷	36.7	36.6	36.5	36.7	36.5	—	—	—	—	
60	Banking	36.5	36.4	36.3	36.6	—	—	—	—	—	
61	Credit agencies other than banks	37.3	37.3	37.6	37.9	—	—	—	—	—	
612	Savings and loan associations	36.9	36.7	36.9	37.4	—	—	—	—	—	
62	Security, commodity brokers and services	38.4	38.4	37.8	(*)	—	—	—	—	—	
63	Insurance carriers	37.3	37.3	37.2	37.2	—	—	—	—	—	
631	Life insurance	37.0	37.1	36.9	37.0	—	—	—	—	—	
632	Accident and health insurance	38.4	38.3	37.7	38.1	—	—	—	—	—	
633	Fire, marine, and casualty insurance	37.3	37.2	37.2	37.1	—	—	—	—	—	

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers ¹
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct, 1976	Nov, 1976	Sept, 1977	Oct, 1977 P	Nov, 1977 P	Oct, 1976	Nov, 1976	Sept, 1977	Oct, 1977 P	Nov, 1977 P
	SERVICES	\$ 148.74	\$ 149.97	\$ 159.36	\$ 161.17	\$ 161.02	\$ 4.44	\$ 4.49	\$ 4.80	\$ 4.84	\$ 4.85
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels ⁶	97.64	97.64	101.99	104.21		3.08	3.16	3.29	3.34	
	Personal services:										
721	Laundries and dry cleaning plants	116.51	116.86	123.55	124.61	—	3.31	3.32	3.51	3.52	—
722	Photographic studios	126.01	126.69	127.49	128.63	—	3.51	3.63	3.84	3.75	—
	Motion pictures:										
781	Motion picture filming and distributing	280.69	281.52	350.32	349.52	—	6.78	6.80	8.78	8.76	—
806	Hospitals	145.01	146.63	163.40	164.75	—	4.24	4.30	4.82	4.86	—

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

² Beginning January 1976, data relate to line haul railroads with operating revenues of \$10,000,000 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 1975, such employees made up 30 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 1975, such employees made up 47 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

⁵ Data relate to nonsupervisory employees except messengers.

⁶ Money payments only; tips, not included.

⁷ Data for nonoffice sales agents excluded from all series in this division.

[†] Beginning February 1977 data not strictly comparable with those previously published due to change in pay practices of a large employer.

* Not available.

p=preliminary.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P
	SERVICES	33.5	33.4	33.2	33.3	33.2			-	-	
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels ⁶	31.7	30.9	31.0	31.2	-	-	-	-	-	
	Personal services:										
721	Laundries and dry cleaning plants	35.2	35.2	35.2	35.4	-	-	-	-	-	
722	Photographic studios	35.9	34.9	33.2	34.3	-	-	-	-	-	
	Motion pictures:										
781	Motion picture filming and distributing	41.4	41.4	39.9	39.9	-	-	-	-	-	
806	Hospitals	34.2	34.1	33.9	33.9	-	-	-	-	-	

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	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Executive Branch													
Total employment	2,724.1	2,704.2	2,668.0	2,661.1	2,670.3	2,674.4	2,645.8	2,654.9	2,662.8	2,664.0	2,675.8	2,712.3	2,720.3
Average weekly hours	39.4	39.4	39.3	39.9	39.6	40.4	39.4	39.5	39.3	39.2	39.2	39.3	39.7
Average overtime hours	1.0	1.0	1.1	1.4	1.2	2.0	1.0	1.0	.9	.9	.9	1.0	1.1
Indexes (1967=100):													
Average weekly earnings	196.1	196.5	199.5	209.7	208.6	215.9	208.9	209.2	208.7	208.7	209.2	208.9	211.1
Average hourly earnings	195.1	196.5	200.0	207.0	207.6	210.5	208.9	208.6	209.2	209.7	210.3	209.5	209.5
Department of Defense													
Total employment	938.5	929.3	917.2	918.0	920.4	919.6	918.4	917.6	918.4	917.4	920.0	932.0	931.6
Average weekly hours	40.1	40.0	39.9	39.9	40.2	40.0	39.9	40.0	39.9	39.6	39.9	39.9	40.0
Average overtime hours . . . . .	.6	.7	.9	.8	.8	.7	.7	.7	.7	.7	.7	.8	.7
Indexes (1967=100):													
Average weekly earnings	188.2	191.5	195.1	201.5	204.4	203.7	202.3	204.2	203.9	204.3	204.8	203.7	203.4
Average hourly earnings	189.1	192.9	197.0	203.5	204.9	205.2	204.4	205.7	206.0	207.9	206.8	205.7	204.9
Postal service													
Total employment	670.7	667.8	662.8	657.9	664.9	685.7	650.0	649.9	652.3	650.7	652.9	655.6	657.5
Average weekly hours	39.7	39.4	39.6	42.1	40.6	43.8	40.4	40.4	39.6	39.7	39.3	39.3	40.4
Average overtime hours	1.0	1.1	1.4	2.9	2.2	5.5	1.9	1.4	1.2	1.2	1.0	1.1	1.5
Indexes (1967=100):													
Average weekly earnings	224.5	223.8	226.8	243.7	237.6	267.8	240.0	238.0	233.3	234.9	235.6	235.0	241.9
Average hourly earnings	218.3	219.2	221.0	223.5	225.9	236.0	229.3	227.4	227.4	228.4	231.4	230.8	231.1
Other agencies													
Total employment	1,114.9	1,107.1	1,088.0	1,085.2	1,085.0	1,069.1	1,077.4	1,087.4	1,092.1	1,095.9	1,102.9	1,124.7	1,131.4
Average weekly hours	39.1	38.9	38.6	38.7	38.6	38.4	38.2	38.5	38.5	38.6	38.6	38.6	39.0
Average overtime hours	1.2	1.1	1.2	1.1	1.0	.9	.8	.9	.9	.9	1.0	1.1	1.3
Indexes (1967=100):													
Average weekly earnings	187.3	185.6	188.6	199.0	197.5	197.4	197.2	197.5	198.2	198.0	198.7	197.5	200.5
Average hourly earnings	185.9	185.1	189.6	199.5	198.5	199.5	200.2	199.0	199.8	199.0	199.8	198.5	199.5

NOTE: Averages presented in this table have been computed using data collected by the U.S. Civil Service Commission from all agencies of 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 supervisory and nonsupervisory, they are not comparable to similar data presented in table C-2 which relate only to production or nonsupervisory workers.

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

Major industry group	Average hourly earnings excluding overtime ¹				
	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^p	Nov. 1977 ^p
MANUFACTURING	\$5.08	\$5.14	\$5.50	\$5.53	\$5.56
DURABLE GOODS	5.40	5.46	5.86	5.90	5.93
Ordnance and accessories	5.71	5.79	6.15	6.12	-
Lumber and wood products	4.65	4.66	4.96	4.97	-
Furniture and fixtures	3.94	3.97	4.23	4.24	-
Stone, clay, and glass products	5.15	5.19	5.55	5.57	-
Primary metal industries	6.65	6.69	7.35	7.36	-
Fabricated metal products	5.27	5.31	5.67	5.72	-
Machinery, except electrical	5.61	5.67	6.03	6.08	-
Electrical equipment and supplies	4.88	4.91	5.27	5.29	-
Transportation equipment	6.27	6.37	6.87	6.99	-
Instruments and related products	4.80	4.84	5.11	5.11	-
Miscellaneous manufacturing industries	3.95	3.98	4.25	4.27	-
NONDURABLE GOODS	4.62	4.67	4.96	4.97	5.01
Food and kindred products	4.80	4.86	5.13	5.17	-
Tobacco manufactures	4.58	4.72	5.23	5.13	-
Textile mill products	3.65	3.66	3.90	3.90	-
Apparel and other textile products	3.43	3.44	3.61	3.62	-
Paper and allied products	5.28	5.33	5.73	5.76	-
Printing and publishing	(^a)	(^a)	(^a)	(^a)	-
Chemicals and allied products	5.81	5.87	6.25	6.31	-
Petroleum and coal products	6.91	6.98	7.42	7.45	-
Rubber and plastics products, nec	4.64	4.72	4.95	4.97	-
Leather and leather products	3.40	3.43	3.58	3.59	-

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

^p = preliminary.

² Not available as average overtime rates are significantly above time and one-half. Inclusion of data for the group in the nondurable goods total has little effect.

**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 1967 dollars**

Industry	Gross average weekly earnings			Spendable average weekly earnings					
				Worker with no dependents			Married worker with 3 dependents		
	Oct. 1976	Sept. 1977	Oct. 1977 ^P	Oct. 1976	Sept. 1977	Oct. 1977 ^P	Oct. 1976	Sept. 1977	Oct. 1977 ^P
TOTAL PRIVATE:									
Current dollars	\$ 180.28	\$ 194.03	\$ 195.48	\$ 146.78	\$ 160.33	\$ 161.38	\$ 159.50	\$ 176.66	\$ 177.80
1967 dollars	104.03	105.45	105.95	84.70	87.14	87.47	92.04	96.01	96.37
MINING:									
Current dollars	287.33	315.14	318.15	224.44	240.78	242.80	240.88	266.13	268.28
1967 dollars	165.80	171.27	172.44	129.51	130.86	131.60	139.00	144.64	145.41
CONTRACT CONSTRUCTION:									
Current dollars	299.87	304.22	309.82	233.07	233.67	237.32	250.70	258.53	262.43
1967 dollars	173.04	165.34	167.92	134.49	126.99	128.63	144.66	140.51	142.24
MANUFACTURING:									
Current dollars	211.20	233.45	234.09	169.24	187.84	188.27	182.74	206.33	206.80
1967 dollars	121.87	126.88	126.88	97.66	102.09	102.04	105.45	112.14	112.09
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	265.20	284.71	285.91	208.63	221.06	221.82	223.98	244.67	245.55
1967 dollars	153.03	154.73	154.96	120.39	120.14	120.23	129.24	132.97	133.09
WHOLESALE AND RETAIL TRADE:									
Current dollars	135.20	144.52	145.52	113.44	123.59	124.34	126.47	136.07	137.01
1967 dollars	78.02	78.54	78.87	65.46	67.17	67.39	72.98	73.95	74.26
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	161.85	169.73	173.22	133.47	142.68	145.32	145.39	157.49	160.24
1967 dollars	93.39	92.24	93.89	77.02	77.54	78.76	83.89	85.59	86.85
SERVICES:									
Current dollars	148.74	159.36	161.17	123.62	134.74	136.10	135.71	149.31	150.74
1967 dollars	85.83	86.61	87.36	71.33	73.23	73.77	78.31	81.15	81.70
CONSUMER PRICE INDEX (All items, 1967 = 100)	173.3	184.0	184.5	NOTE: The Consumer Price Index is an estimate of the average change in prices of goods and services purchased by urban wage earners and clerical workers.					

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

p = preliminary (applicable to earnings data only).

**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**

[1967 = 100]

Industry division and group	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P
	Hours				
TOTAL	113.6	113.7	117.9	118.2	117.8
GOODS-PRODUCING	99.2	98.8	105.0	104.9	104.2
MINING	113.6	134.0	144.9	146.0	145.7
CONTRACT CONSTRUCTION	115.2	108.4	121.9	124.1	117.5
MANUFACTURING	95.2	95.9	100.7	100.1	100.5
DURABLE GOODS	93.6	95.2	100.6	100.6	101.5
Ordnance and accessories	39.2	39.5	39.5	37.4	37.2
Lumber and wood products	102.1	99.3	109.6	109.4	108.2
Furniture and fixtures	105.3	105.1	111.9	114.4	114.7
Stone, clay, and glass products	102.9	101.6	107.0	106.9	106.7
Primary metal industries	85.9	85.5	90.3	88.9	89.8
Fabricated metal products	98.6	99.9	106.2	107.0	108.1
Machinery, except electrical	93.7	97.6	104.3	104.5	107.0
Electrical equipment and supplies	94.0	95.4	100.2	100.4	101.9
Transportation equipment	88.3	93.6	98.5	98.1	98.1
Instruments and related products	108.9	110.7	113.8	114.4	115.2
Miscellaneous manufacturing	98.1	96.6	96.1	96.9	96.1
NONDURABLE GOODS	97.4	97.0	100.7	99.4	99.0
Food and kindred products	102.3	98.5	105.9	98.2	94.8
Tobacco manufactures	96.4	92.0	84.4	86.1	82.1
Textile mill products	95.7	96.5	100.7	100.8	101.8
Apparel and other textile products	88.2	88.1	88.9	90.0	89.7
Paper and allied products	97.0	98.3	101.7	101.3	102.1
Printing and publishing	93.8	94.5	96.6	96.4	97.1
Chemicals and allied products	99.8	100.4	103.8	103.0	103.8
Petroleum and coal products	115.4	114.4	125.7	126.3	125.3
Rubber and plastics products, nec	128.2	128.7	133.7	134.4	133.8
Leather and leather products	70.7	71.3	72.1	73.3	74.8
SERVICE-PRODUCING	123.7	124.0	126.8	127.4	127.3
TRANSPORTATION AND PUBLIC UTILITIES	103.4	103.9	105.4	104.8	104.7
WHOLESALE AND RETAIL TRADE	119.3	120.4	122.2	122.7	122.6
WHOLESALE TRADE	115.6	115.5	118.6	119.7	119.8
RETAIL TRADE	120.9	122.2	123.5	123.8	123.7
FINANCE, INSURANCE, AND REAL ESTATE	128.3	128.4	133.2	134.2	133.8
SERVICES	137.7	137.0	141.2	142.3	142.1

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

p = preliminary.

**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—Continued**

[1967 = 100]

Industry division and group	Oct. 1976	Nov. 1976	Sept. 1977	Oct. 1977 ^P	Nov. 1977 ^P
	Payrolls				
TOTAL	211.5	212.6	236.1	238.3	237.6
GOODS-PRODUCING	189.9	189.1	215.7	216.8	215.4
MINING	274.8	278.1	320.6	323.6	323.8
CONTRACT CONSTRUCTION	219.9	207.0	243.1	248.6	234.5
MANUFACTURING	177.7	181.0	204.6	204.5	206.2
DURABLE GOODS	175.1	180.1	205.8	207.1	209.7
Ordnance and accessories	72.5	74.1	79.1	74.5	75.2
Lumber and wood products	210.2	204.2	241.8	241.8	238.3
Furniture and fixtures	183.6	184.0	211.1	216.1	217.4
Stone, clay, and glass products	198.3	196.5	223.0	223.6	224.2
Primary metal industries	177.6	177.7	208.2	204.4	207.7
Fabricated metal products	181.8	185.6	212.3	215.5	218.9
Machinery, except electrical	171.4	180.7	206.9	209.1	214.2
Electrical equipment and supplies	170.5	174.3	197.4	198.0	202.0
Transportation equipment	169.1	182.3	208.4	212.2	213.2
Instruments and related products	189.2	193.7	210.9	211.7	214.5
Miscellaneous manufacturing	169.7	167.9	179.1	181.5	181.6
NONDURABLE GOODS	181.9	182.7	202.5	200.1	200.4
Food and kindred products	195.2	190.1	217.5	201.9	198.2
Tobacco manufactures	199.1	197.6	200.0	201.4	195.6
Textile mill products	176.4	178.6	199.6	199.7	202.5
Apparel and other textile products	151.7	151.8	161.3	163.9	163.8
Paper and allied products	188.0	192.2	214.8	215.1	216.2
Printing and publishing	165.1	167.9	183.0	183.1	185.5
Chemicals and allied products	194.4	197.0	218.0	218.0	220.5
Petroleum and coal products	232.1	232.1	273.6	276.0	275.3
Rubber and plastics products, nec	226.8	231.7	252.1	254.4	253.9
Leather and leather products	118.6	120.6	127.9	130.5	134.7
SERVICE-PRODUCING	230.9	232.8	253.6	256.8	256.7
TRANSPORTATION AND PUBLIC UTILITIES	211.8	213.6	231.2	231.0	232.3
WHOLESALE AND RETAIL TRADE	216.0	218.8	236.4	239.1	238.8
WHOLESALE TRADE	212.0	213.3	232.1	236.3	236.0
RETAIL TRADE	218.4	221.8	238.6	240.6	240.3
FINANCE, INSURANCE, AND REAL ESTATE	219.2	219.0	239.6	245.0	243.4
SERVICES	267.1	268.6	295.9	300.9	300.8

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

p = preliminary.

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	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. ^P	Nov. ^P
TOTAL PRIVATE	36.2	36.2	35.8	36.2	36.2	36.2	36.3	36.2	36.1	36.0	36.0	36.2	36.1
MINING	43.3	43.6	43.1	43.5	44.2	44.3	44.1	44.1	44.8	44.2	44.3	44.5	44.5
CONTRACT CONSTRUCTION	37.3	37.2	35.4	37.5	37.2	37.3	37.4	36.8	36.9	36.5	36.4	36.8	36.9
MANUFACTURING	40.1	40.0	39.5	40.3	40.4	40.3	40.4	40.5	40.2	40.3	40.3	40.4	40.5
<i>Overtime hours</i>	3.1	3.2	3.2	3.3	3.3	3.4	3.4	3.4	3.4	3.3	3.3	3.5	3.5
DURABLE GOODS	40.7	40.5	40.0	40.8	41.0	40.8	41.0	41.2	40.9	40.9	41.0	41.2	41.2
<i>Overtime hours</i>	3.2	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.5	3.5	3.5	3.8	3.7
Ordnance and accessories	40.6	40.9	40.6	40.8	40.7	41.0	41.1	40.8	40.3	40.2	40.6	40.7	40.0
Lumber and wood products	40.3	40.3	40.0	40.4	40.2	40.0	40.0	39.9	40.4	39.6	40.0	40.2	40.6
Furniture and fixtures	38.6	38.5	36.9	38.2	38.6	38.5	38.7	38.9	38.8	39.0	39.2	39.7	39.9
Stone, clay, and glass products	41.2	41.2	40.0	41.4	41.4	41.7	41.6	41.6	41.4	41.4	41.0	41.0	41.1
Primary metal industries	40.4	40.2	40.1	40.7	41.1	41.4	41.5	41.5	41.1	41.0	40.9	41.2	41.5
Fabricated metal products	40.8	40.5	39.8	40.8	41.0	40.8	41.0	41.3	41.0	40.9	40.9	41.1	41.2
Machinery, except electrical	41.4	41.2	40.5	41.4	41.5	41.4	41.6	42.0	41.8	41.8	41.8	42.0	42.1
Electrical equipment and supplies	40.2	40.2	39.4	40.5	40.3	40.1	40.2	40.4	40.2	40.3	40.3	40.3	40.1
Transportation equipment	42.0	41.2	41.6	41.6	42.6	42.0	42.5	42.8	42.0	42.3	42.6	42.8	42.5
Instruments and related products	40.4	40.6	39.7	40.9	40.4	40.3	40.4	40.7	40.3	40.3	40.3	40.6	40.3
Miscellaneous manufacturing, Ind.	38.9	38.9	38.1	39.5	39.2	39.0	39.0	39.3	38.7	38.8	39.0	39.1	39.0
NONDURABLE GOODS	39.2	39.3	38.8	39.5	39.5	39.6	39.5	39.5	39.3	39.3	39.3	39.4	39.5
<i>Overtime hours</i>	3.0	3.0	3.0	3.2	3.1	3.2	3.2	3.1	3.0	3.1	3.0	3.1	3.2
Food and kindred products	40.3	40.1	39.4	40.3	40.2	40.3	40.0	40.0	39.8	39.7	39.5	39.5	39.9
Tobacco manufactures	36.8	37.5	36.1	39.1	38.2	38.2	38.4	38.7	38.6	37.8	38.6	38.3	38.2
Textile mill products	39.8	40.1	40.1	40.5	40.7	40.5	40.5	40.3	40.1	40.2	40.3	40.6	40.6
Apparel and other textile products	35.2	35.2	34.2	35.6	35.6	35.3	35.6	35.8	35.3	35.5	35.3	35.5	35.6
Paper and allied products	42.4	42.5	41.9	42.7	42.8	43.5	42.9	43.1	42.7	42.4	42.7	42.8	42.7
Printing and publishing	37.6	37.7	37.5	37.8	37.7	37.8	37.6	37.7	37.8	37.7	38.0	37.9	38.0
Chemicals and allied products	41.7	41.7	41.6	41.7	41.8	41.8	41.7	41.9	41.7	41.8	41.7	41.6	41.7
Petroleum and coal products	42.0	42.4	42.3	42.4	42.9	42.7	42.6	43.1	42.8	43.0	42.8	43.3	43.1
Rubber and plastics products, nec	41.2	41.4	40.9	41.3	41.2	41.3	41.3	41.2	40.6	40.8	40.7	40.9	40.6
Leather and leather products	36.4	36.4	35.3	36.8	36.5	37.3	37.1	37.2	36.8	37.3	37.6	37.6	37.8
TRANSPORTATION AND PUBLIC UTILITIES	40.2	40.4	39.8	40.5	40.3	40.1	40.3	40.1	39.9	40.0	39.9	39.9	40.1
WHOLESALE AND RETAIL TRADE	33.4	33.6	33.3	33.4	33.4	33.4	33.5	33.3	33.3	33.2	33.2	33.5	33.1
WHOLESALE TRADE	38.7	38.6	38.7	39.1	38.9	38.9	38.8	38.8	38.8	38.8	38.8	39.1	38.9
RETAIL TRADE	31.9	32.2	31.7	31.8	31.8	31.8	31.9	31.7	31.7	31.6	31.6	31.9	31.4
FINANCE, INSURANCE, AND REAL ESTATE	36.7	36.7	36.7	36.6	36.7	36.6	36.7	36.6	36.6	36.7	36.6	36.7	36.6
SERVICES	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.3	33.2	33.2	33.2	33.4	33.3

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

p = preliminary.

C-8. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, seasonally adjusted

Industry	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. ^P	Nov. ^P
	Average hourly earnings												
TOTAL PRIVATE	\$5.00	\$5.02	\$5.07	\$5.10	\$5.13	\$5.17	\$5.20	\$5.22	\$5.27	\$5.28	\$5.32	\$5.37	\$5.39
MINING	6.61	6.67	6.69	6.71	6.77	6.79	6.82	6.91	6.95	6.92	7.03	7.12	7.08
CONTRACT CONSTRUCTION	7.81	7.83	7.92	7.90	7.91	7.95	7.97	8.04	8.06	8.08	8.09	8.16	8.15
MANUFACTURING	5.34	5.38	5.43	5.45	5.49	5.53	5.57	5.61	5.66	5.68	5.73	5.79	5.81
TRANSPORTATION AND PUBLIC UTILITIES	6.62	6.65	6.70	6.74	6.76	6.83	6.88	6.88	7.00	6.93	7.03	7.07	7.15
WHOLESALE AND RETAIL TRADE	4.08	4.11	4.15	4.17	4.20	4.23	4.24	4.26	4.30	4.31	4.33	4.36	4.37
FINANCE, INSURANCE, AND REAL ESTATE	4.43	4.43	4.52	4.48	4.50	4.53	4.56	4.54	4.60	4.61	4.65	4.74	4.73
SERVICES	4.48	4.50	4.58	4.58	4.61	4.64	4.66	4.67	4.72	4.76	4.78	4.84	4.84
	Average weekly earnings												
TOTAL PRIVATE:													
Current dollars	181.00	181.72	181.51	184.62	185.71	187.15	188.76	188.96	190.25	190.08	191.52	194.39	194.58
1967 dollars	104.32	104.32	103.37	104.13	104.10	104.09	104.34	103.88	104.19	103.76	104.20	105.47	-
Real spendable earnings (worker and 3 dependents, 1967 dollars)	92.24	92.18	91.36	91.80	91.69	91.58	91.69	94.93	95.12	94.73	95.04	96.01	-

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

p = preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

C-9. Indexes of aggregate weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted

[1967 = 100]

Industry division and group	1976		1977										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. p	Nov. p
TOTAL	112.3	113.3	112.3	114.2	115.0	115.4	115.9	115.8	115.8	115.6	115.9	116.8	116.9
GOODS-PRODUCING	97.1	97.0	95.2	98.6	100.1	100.8	101.4	101.8	101.4	100.6	100.9	101.8	102.4
MINING	132.6	133.7	131.3	134.3	140.5	141.6	140.6	142.3	139.9	134.7	142.5	143.6	144.3
CONTRACT CONSTRUCTION	104.9	104.0	95.9	105.8	108.7	111.7	112.4	111.8	112.8	110.8	110.4	112.7	113.9
MANUFACTURING	94.5	94.5	93.9	96.1	97.2	97.5	98.1	98.7	98.0	97.6	97.8	98.5	99.0
DURABLE GOODS	93.8	93.7	93.2	95.2	96.8	96.9	97.8	98.7	98.3	98.1	98.4	99.5	100.0
Ordnance and accessories	39.1	39.4	39.1	39.3	39.2	40.1	40.7	41.0	40.5	39.3	39.1	37.5	36.9
Lumber and wood products	101.2	101.9	101.4	103.0	103.6	103.5	104.1	104.0	105.3	104.0	106.0	106.9	110.3
Furniture and fixtures	103.0	103.3	98.7	103.2	105.3	106.1	107.1	107.9	108.4	107.2	108.3	111.2	112.6
Stone, clay, and glass products	100.2	99.3	96.6	97.4	101.7	103.9	104.2	105.4	104.9	104.1	103.3	103.3	105.3
Primary metal industries	86.2	85.4	85.2	85.9	88.6	89.7	90.7	90.9	89.0	88.2	89.0	89.4	90.4
Fabricated metal products	98.3	98.3	97.3	100.3	101.7	101.3	102.8	104.2	103.7	103.3	103.1	105.1	106.4
Machinery, except electrical	96.2	96.0	95.2	97.9	98.7	98.8	100.2	101.6	103.2	103.5	103.6	105.5	105.6
Electrical equipment and supplies	93.0	93.3	91.9	95.6	96.1	96.3	97.2	97.9	98.3	98.3	97.8	98.8	99.3
Transportation equipment	91.4	90.8	93.4	92.9	96.4	94.7	95.3	96.5	94.8	95.4	96.5	97.1	95.8
Instruments and related products	108.8	110.4	108.7	112.7	111.6	111.7	112.3	113.2	111.7	111.3	112.4	113.6	113.1
Miscellaneous manufacturing, Ind.	91.9	93.0	92.5	96.5	95.5	95.0	94.7	94.6	91.4	91.3	90.3	91.1	91.5
NONDURABLE GOODS	95.6	95.7	94.9	97.3	97.7	98.5	98.5	98.7	97.7	96.9	96.9	97.1	97.5
Food and kindred products	96.6	95.8	94.9	97.5	97.8	98.5	97.3	97.3	95.9	94.5	94.1	92.7	92.9
Tobacco manufactures	80.1	81.6	76.1	82.4	75.1	80.5	78.2	80.2	77.2	71.7	73.2	74.0	71.1
Textile mill products	96.0	96.6	96.7	98.1	99.4	99.6	100.2	99.7	99.9	98.9	99.4	100.5	101.0
Apparel and other textile products	86.5	86.3	84.1	87.9	88.1	87.7	88.6	89.8	87.6	87.8	87.2	87.7	88.1
Paper and allied products	97.2	97.2	96.2	98.2	98.6	100.8	100.4	101.1	100.3	99.4	99.7	100.4	100.7
Printing and publishing	93.6	93.7	93.4	94.6	94.5	95.2	95.1	95.3	95.6	95.1	95.7	95.7	96.3
Chemicals and allied products	100.1	100.1	100.7	101.6	102.2	102.9	103.3	103.8	103.7	103.4	103.0	102.6	103.5
Petroleum and coal products	113.4	114.4	115.0	114.4	118.4	119.6	119.3	121.6	119.9	120.4	120.8	123.1	124.2
Rubber and plastics products, nec	125.7	127.8	128.0	131.8	132.9	134.8	135.3	133.9	132.5	129.7	129.3	130.5	130.5
Leather and leather products	70.7	70.7	69.1	72.1	71.8	73.4	73.3	72.9	69.9	71.8	72.7	73.6	74.4
SERVICE-PRODUCING	123.7	124.7	124.1	125.0	125.3	125.5	125.9	125.6	125.8	126.1	126.4	127.2	126.9
TRANSPORTATION AND PUBLIC UTILITIES	103.3	104.9	120.7	104.4	104.1	103.8	104.6	104.1	103.1	103.5	103.9	103.4	104.3
WHOLESALE AND RETAIL TRADE	119.1	120.3	119.4	120.3	120.7	121.0	121.4	121.2	121.6	121.6	121.8	122.7	121.4
WHOLESALE TRADE	114.8	114.8	115.4	117.1	116.9	117.3	117.3	117.3	117.5	117.5	117.8	118.7	118.7
RETAIL TRADE	120.7	122.3	120.8	121.6	122.1	122.4	123.0	122.7	123.1	123.1	123.3	124.1	122.4
FINANCE, INSURANCE, AND REAL ESTATE	129.1	129.6	130.1	130.2	131.0	131.0	131.6	131.7	132.3	132.7	133.2	134.2	134.5
SERVICES	137.7	138.3	138.8	139.3	139.8	140.1	140.3	139.6	140.1	140.6	140.9	142.2	142.6

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

p = preliminary.

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

Industry division	Millions of hours (Annual rate) ²			Percent change		
	September 1977	October 1977p	November 1977p	Nov. 1976 to Nov. 1977	Sept. 1976 to Oct. 1977	Oct. 1977 to Nov. 1977
TOTAL	157,137	158,656	157,874	3.5	1.0	-0.5
PRIVATE SECTOR	127,086	128,011	128,068	4.0	0.7	0.0
MINING	1,972	1,988	1,997	10.1	0.8	0.5
CONTRACT CONSTRUCTION	7,367	7,509	7,585	8.4	1.9	1.0
MANUFACTURING	40,855	41,064	41,228	4.2	0.5	0.4
DURABLE GOODS	24,392	24,590	24,693	5.6	0.8	0.4
NONDURABLE GOODS	16,462	16,474	16,535	2.2	0.1	0.4
TRANSPORTATION AND PUBLIC UTILITIES	9,577	9,559	9,617	1.7	-0.2	0.6
WHOLESALE AND RETAIL TRADE	31,937	32,194	31,879	2.4	0.8	-1.0
FINANCE, INSURANCE, AND REAL ESTATE	8,650	8,723	8,740	4.5	0.8	0.2
SERVICES	26,728	26,974	27,023	4.4	0.9	0.2
GOVERNMENT	30,051	30,645	29,805	1.4	2.0	-2.7

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 Survey 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.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

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

[1967 = 100]

Item	Annual average		Quarterly indexes										
			1975				1976				1977		
	1975	1976	I	II	III	IV	I	II	III	IV	I	II	III
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	111.8	116.5	106.9	111.7	113.8	113.3	115.4	116.3	117.2	117.2	118.9	118.5	119.9
Output	118.7	126.9	115.1	117.2	120.6	121.3	124.9	126.7	127.7	128.4	131.3	134.0	135.3
Hours	106.1	108.9	105.7	104.9	105.9	107.5	108.3	108.9	109.0	109.5	110.5	113.1	112.9
Compensation per hour	130.2	196.5	176.2	179.0	181.1	184.7	190.5	194.3	198.6	202.7	208.3	211.5	215.9
Real compensation per hour	111.8	115.3	112.0	112.2	111.2	111.6	113.8	114.0	115.6	116.7	117.6	117.0	117.8
Unit labor costs	161.1	163.7	161.7	160.4	159.1	163.0	165.1	167.0	169.4	173.0	175.2	178.4	180.2
Unit nonlabor payments	152.1	159.9	139.8	149.1	155.8	159.0	158.7	160.5	160.8	159.5	160.4	163.6	166.3
Implicit price deflator	158.0	165.6	154.2	156.5	159.4	161.6	162.9	164.8	166.5	168.3	170.1	173.1	175.4
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	109.9	114.3	106.9	109.5	112.0	111.1	112.9	114.4	115.2	114.7	116.0	116.2	117.1
Output	118.7	127.4	115.3	117.1	120.6	121.3	125.2	127.2	128.3	128.7	131.6	134.5	135.6
Hours	106.1	111.4	107.9	106.9	107.7	109.7	111.0	111.3	111.4	112.2	113.5	115.7	115.9
Compensation per hour	177.6	193.1	173.2	176.2	179.2	182.0	186.9	191.1	195.2	198.7	204.2	207.9	211.8
Real compensation per hour	110.2	113.3	110.1	110.4	110.1	110.0	111.7	113.0	113.7	114.4	115.3	115.0	115.6
Unit labor costs	161.7	163.9	162.0	160.9	166.0	163.9	165.6	167.1	169.5	173.3	176.0	178.9	180.9
Unit nonlabor payments	147.7	157.4	136.9	145.4	154.4	153.5	155.3	156.8	159.2	159.1	157.2	160.7	165.6
Implicit price deflator	156.9	165.0	153.4	155.6	158.1	160.3	162.1	163.6	166.0	168.1	169.6	172.7	175.7
MANUFACTURING:													
Output per hour of all persons	116.3	124.2	109.3	113.9	120.5	121.3	122.2	124.0	125.4	125.0	125.1	126.0	127.6
Output	107.6	120.0	101.1	103.3	111.2	114.3	117.8	119.9	121.1	121.2	123.0	126.5	128.2
Hours	92.5	96.6	92.4	91.1	92.3	94.2	96.4	96.7	96.6	97.0	98.3	100.5	100.4
Compensation per hour	179.4	194.8	174.9	178.2	189.7	183.7	189.1	193.3	196.5	200.1	206.3	209.8	213.5
Real compensation per hour	111.3	114.3	111.2	111.7	111.0	111.0	113.1	114.3	114.4	115.2	116.5	116.0	116.6
Unit labor costs	154.3	156.9	159.9	156.4	150.0	151.5	154.8	155.9	156.7	160.0	164.9	166.5	167.3
DURABLE GOODS													
Output per hour of all persons	112.2	120.3	105.1	109.9	116.7	116.9	118.1	120.5	121.7	120.9	120.4	121.9	123.0
Output	102.5	114.9	97.7	99.1	105.6	107.7	111.7	114.9	116.8	116.2	117.6	121.3	124.0
Hours	91.3	95.5	92.9	90.1	90.5	92.2	94.6	95.4	95.9	96.2	97.6	100.0	100.8
Compensation per hour	180.9	197.0	175.0	178.5	192.7	186.9	191.7	196.0	198.5	201.2	207.7	211.9	215.0
Real compensation per hour	112.2	115.5	111.3	112.5	112.2	112.4	114.6	115.9	115.6	115.9	117.3	117.2	117.4
Unit labor costs	161.2	163.7	166.5	163.4	156.6	159.1	162.4	162.8	163.1	166.6	172.5	173.9	174.8
NONDURABLE GOODS													
Output per hour of all persons	123.0	130.5	116.2	120.5	126.7	128.3	128.0	129.0	131.3	131.9	132.8	132.6	135.1
Output	115.8	123.3	106.6	111.6	120.3	124.9	127.6	128.1	128.1	128.4	131.7	134.2	135.1
Hours	94.2	93.3	91.7	92.4	95.9	97.3	98.0	98.6	97.5	98.1	99.2	101.2	100.0
Compensation per hour	177.4	191.7	174.5	176.4	179.3	181.0	185.8	188.5	193.4	193.6	204.3	206.4	210.7
Real compensation per hour	110.1	112.5	111.0	110.6	109.5	109.4	111.1	112.0	112.6	114.3	115.3	114.1	115.0
Unit labor costs	144.3	147.0	150.1	146.4	146.8	141.0	144.0	145.9	147.3	150.6	153.9	155.6	155.9
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	113.0	117.2	109.0	112.7	115.4	114.8	116.2	117.4	118.0	117.2	118.0	119.3	120.4
Output	124.4	133.9	118.8	122.7	126.8	128.2	131.8	134.0	135.0	135.0	138.0	141.4	142.8
Hours	119.1	114.3	110.0	109.8	109.9	111.6	113.4	114.2	114.4	115.1	116.1	118.5	118.5
Compensation per hour	179.4	194.9	175.0	178.0	180.8	183.9	188.1	193.0	196.9	200.7	206.7	210.3	214.1
Real compensation per hour	111.3	114.3	111.3	111.5	111.0	111.2	113.0	114.1	114.6	115.6	116.7	116.3	116.9
Total unit costs	166.1	172.1	167.0	165.5	164.4	167.6	168.9	170.3	172.5	176.0	179.0	180.6	182.7
Unit labor costs	158.8	166.3	160.6	157.9	156.6	160.2	162.7	164.5	166.0	171.2	173.9	176.2	177.8
Unit nonlabor costs	188.8	190.1	186.0	180.3	183.5	180.6	187.7	188.2	190.1	194.1	195.0	194.3	198.1
Unit profits	93.6	113.2	65.8	97.8	111.2	107.8	113.1	115.0	117.7	107.0	103.7	115.5	120.6
Implicit price deflator	155.3	163.4	152.0	154.0	156.5	158.7	160.5	162.1	164.3	166.4	167.8	170.9	173.5

p=preliminary.
r=revised.

**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					
	I 1976		II 1976		III 1976		IV 1976		I 1977		II 1977	
	to II 1976	to III 1976	to IV 1976	to I 1977	to II 1977	to III 1977	to II 1976	to III 1976	to IV 1976	to I 1977	to II 1977	to III 1977
PRIVATE BUSINESS SECTOR:												
Output per hour of all persons	3.3	3.0	-0.0r	5.8	-1.1r	4.5	4.2	3.0	3.5	3.0r	1.9	2.3
Output	5.9	3.1	2.1	9.6	8.5r	4.0	8.1	5.9	5.4	5.1	5.8r	6.0
Hours	2.6	0.1	2.1	3.5r	9.7r	-0.5	3.8	2.8	1.9	2.1r	3.8	3.6
Compensation per hour	8.3	9.0	8.6	11.5r	6.3r	8.6	8.5	9.6	9.8	9.4	8.9	8.7
Real compensation per hour	3.6	2.7	3.9	3.1r	-2.2r	3.1	2.4	3.9	4.6	3.3r	1.8	1.9
Unit labor costs	4.9	5.8	8.6	5.3	7.5r	3.9	4.2	6.5	6.1	6.2	6.8r	6.3
Unit nonlabor payments	4.5	0.8	-3.2	2.3	6.7r	8.3	7.6	0.6	0.3	1.1	1.6	3.4
Implicit price deflator	4.8	4.1	4.6	4.4	7.2r	5.3	5.3	4.5	4.1	4.5	5.1	5.4
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	5.5	2.9	-1.8	4.8r	0.7r	2.9	4.4	2.8	3.2	2.8r	1.6	1.6
Output	6.6	3.2	1.3	9.5	8.8r	3.5	8.7	6.4	5.6	5.1	5.7r	5.7
Hours	1.0	0.4	3.2	4.5r	8.1r	0.6	4.1	3.4	2.3	2.2	4.0	4.1
Compensation per hour	9.4	8.8	7.4	11.4r	7.5r	7.6	8.5	8.9	9.2	9.3	8.8	8.5
Real compensation per hour	4.6	2.5	2.7	3.0	-1.2r	2.2	2.3	3.3	4.0	3.2r	1.8	1.7
Unit labor costs	3.7	5.8	9.4	6.3	6.3r	4.5	3.9	5.9	5.8	6.3	7.1	6.7
Unit nonlabor payments	4.0	6.4	-2.8	-2.2	9.1	12.7	7.8	3.1	3.0	1.3	2.5r	4.0
Implicit price deflator	3.8	6.0	5.3	3.5	7.5	7.1	5.1	5.0	4.9	4.6	5.6	5.8
MANUFACTURING:												
Output per hour of all persons	6.1r	4.4r	-1.0r	-0.3r	2.7r	5.4	8.9	4.1	3.1	2.4	1.6	1.8
Output	7.6	3.9	0.5	5.8	12.2	5.4	15.6	8.9	6.1	4.4	5.5	5.9
Hours	1.4	-0.5	1.5	5.5r	9.3r	0.1	6.2	4.7	2.9	2.0	3.9	4.0
Compensation per hour	9.2r	6.7	7.5	13.0r	6.9r	7.4	8.5	8.7	8.9	9.1r	8.5	8.7
Real compensation per hour	4.4r	0.5	2.8	4.5r	-1.8r	2.0	2.3	3.1	3.8	3.0r	1.5	1.9
Unit labor costs	2.9r	2.2r	3.7r	12.7r	4.1r	1.8	-0.3r	4.5r	5.6r	6.5r	6.8r	6.7
DURABLE GOODS												
Output per hour of all persons	8.4r	4.2r	-2.9r	-1.3r	4.9	3.8	9.6r	4.3r	3.3r	2.0r	1.2r	1.1
Output	12.0r	6.7r	-2.0r	4.8r	15.4r	7.2	16.0r	10.6r	7.8r	5.2r	6.0r	6.2
Hours	3.3	2.3	0.9	6.2r	9.9r	3.3	5.8	6.0	4.4	3.2r	4.8	5.0
Compensation per hour	9.4r	5.1	5.6	13.5r	8.3r	6.0	9.2	8.6	8.2	8.4r	8.1	8.3
Real compensation per hour	4.6r	-1.0	1.0	5.0r	-0.4r	0.7	3.0	3.0	3.1	2.4r	1.1	1.6
Unit labor costs	0.9r	0.8r	8.9r	15.0r	3.2r	2.2	-0.4r	4.2r	4.7r	6.2r	6.8r	7.2
NONDURABLE GOODS												
Output per hour of all persons	2.8r	4.5	1.7r	2.7r	-0.5r	7.9	7.3r	3.7r	2.8r	2.9r	2.1r	2.9
Output	1.6r	-0.1	4.3r	7.2r	7.7r	2.7	15.0r	6.5r	3.6r	3.2r	4.7r	5.5
Hours	-1.2	-4.4	2.5	4.4r	8.3r	4.8	6.7	2.7	0.8	0.3r	2.6	2.5
Compensation per hour	8.2	8.6	11.1	12.0r	4.2r	8.7	7.4	8.5	9.7	9.9r	8.9	9.0
Real compensation per hour	3.4	2.3	6.2	3.6	-4.2r	3.3	1.3	2.9	4.6	3.9	1.9	2.1
Unit labor costs	5.2	3.9	9.2r	9.0r	4.7r	0.8	-0.3	4.6r	6.3r	6.8r	6.7r	5.9
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	4.0	2.1	-2.5	5.7r	1.6r	3.8	4.1	2.2	2.1	2.3r	1.7r	2.1
Output	6.8	2.9	-0.1	9.4	10.1r	3.9	9.2	6.3	5.3	4.7	5.5	5.8
Hours	2.6	0.8	2.5	3.5r	8.5r	0.1	4.9	4.1	3.1	2.4r	3.8	3.6
Compensation per hour	8.6	8.1	8.1	12.6r	7.1r	7.5	8.5	8.9	9.1	9.3r	8.9	8.8
Real compensation per hour	3.8	1.9	3.3	4.1r	-1.5r	2.1	2.3	3.2	4.0	3.3	1.9	2.0
Total unit costs	3.5	5.3	10.3	5.2	3.6r	4.7	2.9	4.9	5.5	6.1	6.1	5.9
Unit labor costs	4.4	5.9	10.9	6.4	5.5r	3.6	4.2	6.5	6.9	6.9	7.1r	6.6
Unit nonlabor costs	1.4	3.8	8.9	1.7	-1.3	8.0	-0.5	0.8	1.9	3.9	3.2	4.2
Unit profits	7.0	9.5	-31.7	-11.6	53.5r	19.0	30.9	5.8	-0.7	-8.3	-0.4	2.5
Implicit price deflator	3.9	5.7	5.1	3.5	7.6	6.1	5.3	5.0	4.9	4.6	5.5	5.6

p=preliminary.
r=revised.

**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		
	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P
ALABAMA	\$187.32	\$201.10	\$201.60	40.9	39.9	40.4	\$4.58	\$5.04	\$4.99
Birmingham	220.97	242.81	241.72	39.6	40.2	40.9	5.58	6.04	5.91
Mobile	225.22	255.78	256.39	40.8	60.9	60.9	5.52	4.20	4.21
ALASKA	313.50	409.91	380.59	38.8	41.7	41.1	8.08	9.83	9.26
ARIZONA	210.01	231.42	232.30	39.7	40.6	40.4	5.29	5.70	5.75
Phoenix	207.64	233.13	231.42	39.4	40.9	40.6	5.27	5.70	5.70
Tucson	212.51	220.92	220.13	39.5	39.1	39.1	5.38	5.65	5.63
ARKANSAS	159.60	174.47	175.24	39.9	40.2	40.1	4.00	4.34	4.37
Fayetteville—Springdale	145.60	159.60	161.19	40.0	39.8	40.5	3.64	4.01	3.98
Fort Smith	158.65	178.20	180.85	38.6	39.6	40.1	4.11	4.50	4.51
Little Rock—North Little Rock	186.00	198.09	197.50	40.0	40.1	39.5	4.65	4.94	5.00
Pine Bluff	202.31	216.48	220.29	41.8	41.0	41.8	4.84	5.28	5.27
CALIFORNIA	226.69	248.27	245.62	39.7	40.5	40.2	5.71	6.13	6.11
Anaheim—Santa Ana—Garden Grove	210.65	224.62	225.03	40.2	40.4	40.4	5.24	5.56	5.57
Bakersfield	243.79	244.53	244.28	40.7	39.0	39.4	5.99	6.27	6.20
Fresno	211.41	220.80	223.18	40.5	40.0	39.5	5.22	5.52	5.65
Los Angeles—Long Beach	212.27	229.54	230.68	39.9	40.2	40.4	5.32	5.71	5.71
Modesto	215.67	260.57	233.09	39.0	42.3	38.4	5.53	6.16	6.07
Oxnard—Simi Valley—Ventura	198.00	206.68	202.65	39.6	39.5	38.6	5.00	5.24	5.25
Riverside—San Bernardino—Ontario	233.63	249.89	246.40	39.8	40.5	40.0	5.87	6.17	6.16
Sacramento	243.42	275.22	256.90	38.7	41.7	38.4	6.29	6.60	6.69
Salinas—Seaside—Monterey	219.79	234.30	231.65	38.9	38.6	38.1	5.65	6.07	6.08
San Diego	216.30	234.60	235.77	38.5	39.1	39.1	5.67	6.00	6.03
San Francisco—Oakland	274.62	296.34	298.05	39.4	40.1	39.9	6.97	7.39	7.47
San Jose	240.52	263.04	258.70	39.3	41.1	39.8	6.12	6.40	6.50
Santa Barbara—Santa Maria—Lompoc	198.36	213.56	218.43	38.0	38.9	40.3	5.22	5.49	5.42
Santa Rosa	210.94	217.67	222.72	37.6	37.4	38.4	5.61	5.82	5.80
Stockton	239.40	277.13	259.88	37.7	41.8	38.5	6.35	6.63	6.75
Vallejo—Fairfield—Napa	223.98	250.90	251.68	38.9	38.6	38.9	6.07	6.50	6.47
COLORADO	214.52	236.61	232.66	39.8	39.9	39.5	5.39	5.93	5.89
Denver—Boulder ¹	218.14	233.44	234.02	40.1	39.3	39.2	5.44	5.94	5.97
CONNECTICUT	215.25	234.77	237.42	41.0	41.7	41.8	5.25	5.63	5.68
Bridgeport	227.04	238.42	242.25	42.2	42.5	42.8	5.38	5.61	5.66
Hartford	237.69	251.93	256.63	41.7	42.2	42.7	5.70	5.97	6.01
New Britain	222.98	247.68	246.53	41.6	43.3	42.8	5.36	5.72	5.76
New Haven—West Haven	213.72	232.72	234.60	40.4	40.9	40.8	5.29	5.69	5.75
Stamford	223.13	239.36	245.96	42.5	41.7	43.0	5.25	5.74	5.72
Waterbury	184.95	201.60	200.28	41.1	42.0	41.9	4.50	4.80	4.78
DELAWARE	213.19	245.55	238.76	40.3	41.2	39.4	5.29	5.96	6.06
Wilmington	246.04	284.56	278.80	40.4	41.3	40.0	6.09	6.89	6.97
DISTRICT OF COLUMBIA:									
Washington SMSA	210.92	213.01	(*)	38.7	38.8	(*)	5.45	5.49	(*)
FLORIDA	179.26	190.82	192.70	38.8	40.6	41.0	4.62	4.70	4.70
Fort Lauderdale—Hollywood	180.07	190.76	188.96	41.3	41.2	40.9	4.36	4.63	4.62
Jacksonville	222.76	233.94	224.13	41.1	42.0	41.2	5.42	5.57	5.44
Miami	157.20	160.19	163.93	40.0	38.6	39.5	3.93	4.15	4.15
Orlando	185.57	213.09	211.07	41.7	41.7	42.9	4.45	5.11	4.92
Pensacola	218.43	242.08	248.14	40.6	41.1	42.2	5.38	5.89	5.88
Tampa—St. Petersburg	188.56	202.59	(*)	40.9	40.6	(*)	4.62	4.99	(*)
West Palm Beach—Boca Raton	214.56	227.26	230.57	41.5	40.8	41.1	5.17	5.57	5.61
GEORGIA	167.18	185.64	(*)	39.9	40.8	(*)	4.19	4.55	(*)
Atlanta	207.35	226.95	(*)	39.8	40.6	(*)	5.21	5.59	(*)
Savannah	227.37	253.75	(*)	42.9	43.6	(*)	5.30	5.82	(*)
HAWAII ²	211.38	214.85	225.72	39.0	37.3	38.0	5.42	5.76	5.94
Honolulu ²	205.58	212.86	224.59	38.0	36.7	37.0	5.41	5.80	6.07
IDAHO	213.89	242.26	242.20	38.4	41.2	40.1	5.57	5.88	6.04

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		
	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P
ILLINOIS	(*)	\$260.48	\$261.21	(*)	40.8	40.7	(*)	\$6.39	\$6.42
Bloomington—Normal	(*)	193.45	192.20	(*)	36.4	36.4	(*)	5.31	5.28
Champaign—Urbana—Rantoul	(*)	235.07	247.74	(*)	38.6	40.7	(*)	6.10	6.09
Chicago SMSA	(*)	263.46	263.32	(*)	41.5	41.6	(*)	6.35	6.33
Davenport—Rock Island—Moline	(*)	279.53	284.65	(*)	41.1	41.0	(*)	6.81	6.94
Decatur	(*)	284.74	294.86	(*)	41.9	42.4	(*)	6.80	6.95
Peoria	(*)	287.90	291.13	(*)	38.1	37.2	(*)	7.55	7.82
Rockford	(*)	257.23	263.06	(*)	43.1	43.1	(*)	5.97	6.10
Springfield	(*)	304.47	295.20	(*)	43.5	42.5	(*)	6.99	6.95
INDIANA	\$246.44	281.73	282.05	40.4	41.8	41.6	\$6.10	6.74	6.78
Gary—Hammond—East Chicago	309.20	364.91	(*)	40.0	41.8	(*)	7.73	8.73	(*)
Indianapolis	241.60	285.78	(*)	40.0	42.4	(*)	6.04	6.74	(*)
IOWA	232.93	263.31	272.02	40.3	40.2	40.6	5.78	6.55	6.70
Cedar Rapids	242.11	256.21	257.11	42.7	39.6	39.8	5.67	6.47	6.46
Des Moines	253.68	268.50	265.35	39.7	38.8	38.7	6.39	6.92	6.96
Dubuque	253.05	317.88	328.99	37.6	39.1	39.4	6.73	8.13	8.35
Sioux City	217.48	209.03	210.36	40.2	37.8	37.1	5.41	5.53	5.67
Waterloo—Cedar Falls	246.44	345.77	395.08	40.6	42.9	45.1	6.07	8.06	8.76
KANSAS	207.52	226.04	224.27	41.0	41.4	41.0	5.06	5.46	5.47
Topeka	200.32	249.60	249.86	38.4	41.6	41.3	5.22	6.00	6.05
Wichita	229.49	244.02	237.12	42.4	42.0	41.6	5.42	5.81	5.70
KENTUCKY	203.84	231.32	233.78	39.2	40.3	40.1	5.20	5.74	5.83
Louisville	230.30	271.67	273.88	39.1	41.1	41.0	5.89	6.61	6.68
LOUISIANA	227.84	247.34	246.96	41.5	41.5	42.0	5.49	5.96	5.88
Baton Rouge	286.38	316.09	311.41	43.0	43.3	42.6	6.66	7.30	7.31
New Orleans	218.99	227.94	236.61	39.6	39.3	39.9	5.53	5.80	5.93
Shreveport	197.40	240.81	233.07	40.7	42.1	42.3	4.85	5.72	5.51
MAINE	171.86	183.94	186.40	39.6	39.9	40.0	4.34	4.61	4.66
Lewiston—Auburn	137.20	147.00	146.61	37.9	37.5	37.4	3.62	3.92	3.92
Portland	172.22	184.08	191.28	38.7	39.0	40.1	4.45	4.72	4.77
MARYLAND	219.96	248.22	246.36	39.0	40.1	39.8	5.64	6.19	6.19
Baltimore	232.46	264.31	260.90	39.2	40.6	40.2	5.93	6.51	6.49
MASSACHUSETTS	193.26	211.41	(*)	39.2	40.5	(*)	4.93	5.22	(*)
Boston	212.37	233.04	(*)	39.4	40.6	(*)	5.39	5.74	(*)
Brockton	153.34	163.92	(*)	37.4	38.3	(*)	4.10	4.28	(*)
Fall River	132.44	148.63	(*)	33.7	35.9	(*)	3.93	4.14	(*)
Lawrence—Haverhill	180.78	214.49	(*)	37.9	40.7	(*)	4.77	5.27	(*)
Lowell	167.96	184.07	(*)	38.0	39.5	(*)	4.42	4.66	(*)
New Bedford	157.18	178.02	(*)	36.3	38.7	(*)	4.33	4.60	(*)
Springfield—Chicopee—Holyoke	203.18	217.65	(*)	40.8	41.3	(*)	4.98	5.27	(*)
Worcester	194.82	218.82	(*)	39.2	40.9	(*)	4.97	5.35	(*)
MICHIGAN	289.29	331.58	(*)	42.0	43.6	(*)	6.89	7.61	(*)
Ann Arbor	278.19	365.94	363.83	38.3	44.6	43.5	7.27	8.21	8.36
Battle Creek	295.13	309.06	312.38	42.0	40.4	41.0	7.03	7.65	7.62
Bay City	306.87	368.32	369.82	46.8	49.3	49.1	6.56	7.47	7.53
Detroit	300.41	355.57	361.04	39.7	43.8	43.4	7.57	8.12	8.32
Flint	359.76	408.96	418.42	47.6	48.0	48.4	7.56	8.52	8.65
Grand Rapids	239.08	264.84	266.53	41.4	41.8	42.0	5.78	6.34	6.35
Jackson	245.96	270.05	281.04	41.0	40.5	41.5	6.00	6.67	6.77
Kalamazoo—Portage	260.90	283.90	293.15	41.4	41.5	42.4	6.30	6.84	6.91
Lansing—East Lansing	320.11	335.04	365.76	44.3	42.8	44.6	7.23	7.83	8.20
Muskegon—Norton Shores—Muskegon Heights	250.64	273.52	275.39	41.4	41.6	41.6	6.05	6.58	6.62
Saginaw	357.42	385.79	397.86	45.7	45.1	45.7	7.82	8.55	8.71
MINNESOTA	225.04	244.00	244.59	39.9	40.0	39.9	5.64	6.10	6.13
Duluth—Superior	204.36	222.48	222.69	39.0	39.1	39.0	5.24	5.69	5.71
Minneapolis—St. Paul	239.80	264.06	262.51	40.1	40.5	40.2	5.98	6.52	6.53
MISSISSIPPI	156.36	170.08	171.74	40.3	40.4	40.6	3.88	4.21	4.23
Jackson	163.62	189.52	189.37	40.4	41.2	40.9	4.05	4.60	4.63

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		
	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P
MISSOURI	\$210.67	\$239.72	\$243.17	39.9	40.7	40.8	\$5.28	\$5.89	\$5.96
Kansas City	240.49	268.66	277.79	40.9	40.4	41.4	5.88	6.65	6.71
St. Joseph	193.72	209.82	214.78	39.9	39.0	39.7	4.98	5.38	5.41
St. Louis	251.12	277.31	280.64	41.1	41.7	41.7	6.11	6.65	6.73
Springfield	170.17	192.27	197.57	37.9	39.4	39.2	4.49	4.88	5.04
MONTANA	258.92	(*)	(*)	42.1	(*)	(*)	6.15	(*)	(*)
NEBRASKA	206.98	225.64	225.50	41.0	41.1	41.0	5.05	5.49	5.50
Lincoln	198.77	212.06	212.06	39.4	37.8	37.8	5.05	5.61	5.61
Omaha	222.64	244.91	241.13	41.1	41.3	40.8	5.41	5.93	5.91
NEVADA	232.93	248.52	252.06	40.3	39.7	39.2	5.78	6.26	6.43
Las Vegas	290.76	306.59	(*)	42.2	41.6	(*)	6.89	7.37	(*)
NEW HAMPSHIRE	173.01	187.86	188.14	39.5	40.4	40.2	4.38	4.65	4.68
Manchester	156.36	166.32	164.64	38.8	39.6	39.2	4.03	4.20	4.20
Nashua	197.88	210.73	210.22	40.8	41.4	41.3	4.85	5.05	5.05
NEW JERSEY	218.43	242.43	245.09	40.3	41.3	41.4	5.42	5.87	5.92
Atlantic City	173.43	193.29	(*)	36.9	38.2	(*)	4.70	5.06	(*)
Camden ³	205.40	(*)	(*)	39.5	(*)	(*)	5.20	(*)	(*)
Hackensack ⁴	199.08	230.35	(*)	40.3	42.5	(*)	4.94	5.42	(*)
Jersey City ⁴	205.12	228.57	(*)	38.3	40.1	(*)	5.46	5.70	(*)
New Brunswick—Perth Amboy—Sayreville ⁴	241.02	258.33	(*)	41.2	41.8	(*)	5.85	6.18	(*)
Newark ⁴	229.45	(*)	(*)	40.9	(*)	(*)	5.61	(*)	(*)
Paterson—Clifton—Passaic ⁴	213.42	(*)	(*)	41.2	(*)	(*)	5.18	(*)	(*)
Trenton	234.92	263.89	(*)	42.1	42.7	(*)	5.58	6.18	(*)
NEW MEXICO	166.32	181.85	183.60	39.6	40.5	40.8	4.20	4.49	4.50
Albuquerque	170.48	182.82	188.00	39.1	40.9	41.5	4.36	4.47	4.53
NEW YORK	211.18	227.88	(*)	39.4	39.7	(*)	5.36	5.74	(*)
Albany—Schenectady—Troy	227.61	248.87	(*)	40.5	41.0	(*)	5.62	6.07	(*)
Binghamton	195.21	206.73	(*)	40.5	41.1	(*)	4.82	5.03	(*)
Buffalo	267.33	313.76	(*)	39.9	42.4	(*)	6.70	7.40	(*)
Elmira	209.48	224.00	(*)	39.9	40.0	(*)	5.25	5.60	(*)
Monroe County ⁵	274.55	301.75	(*)	42.5	42.5	(*)	6.46	7.10	(*)
Nassau—Suffolk ⁶	195.39	205.15	(*)	39.0	39.3	(*)	5.01	5.22	(*)
New York—Northeastern New Jersey	202.80	217.09	(*)	39.0	39.4	(*)	5.20	5.51	(*)
New York and Nassau—Suffolk ⁴	189.88	197.02	(*)	37.9	37.6	(*)	5.01	5.24	(*)
New York SMSA ⁶	188.88	195.30	(*)	37.7	37.2	(*)	5.01	5.25	(*)
New York City ⁷	186.63	191.36	(*)	37.4	36.8	(*)	4.99	5.20	(*)
Poughkeepsie	228.10	241.96	(*)	43.2	42.9	(*)	5.28	5.64	(*)
Rochester	257.42	281.23	(*)	42.2	42.1	(*)	6.10	6.68	(*)
Rockland County ⁷	210.34	224.17	(*)	41.9	41.9	(*)	5.02	5.35	(*)
Syracuse	235.04	255.85	(*)	41.6	41.4	(*)	5.65	6.18	(*)
Utica—Rome	207.16	220.73	(*)	40.7	40.8	(*)	5.09	5.41	(*)
Westchester County ⁷	210.94	233.95	(*)	39.8	40.9	(*)	5.30	5.72	(*)
NORTH CAROLINA	151.71	167.20	166.78	39.0	40.0	39.9	3.89	4.18	4.18
Asheville	145.34	166.04	166.82	39.3	40.3	40.1	3.80	4.12	4.16
Charlotte—Gastonia	156.79	170.55	171.80	40.1	40.9	41.1	3.91	4.17	4.18
Greensboro—Winston-Salem—High Point	165.39	178.30	178.94	39.1	39.1	39.5	4.23	4.56	4.53
Raleigh—Durham	173.01	187.07	185.08	39.5	39.3	38.8	4.38	4.76	4.77
NORTH DAKOTA	197.51	216.78	217.31	39.9	39.2	39.8	4.95	5.53	5.46
Fargo—Moorhead	205.19	239.72	226.20	39.1	40.7	38.8	5.35	5.89	5.83
OHIO	253.38	288.65	291.75	41.0	42.2	42.1	6.18	6.84	6.93
Akron	268.78	290.44	292.87	42.8	42.4	42.2	6.28	6.85	6.94
Canton	242.55	280.13	289.67	38.5	39.4	40.4	6.30	7.11	7.17
Cincinnati	228.42	266.49	267.54	40.5	42.1	42.0	5.64	6.33	6.37
Cleveland	255.02	298.58	301.59	41.4	42.9	42.9	6.16	6.96	7.03
Columbus	230.26	246.62	245.96	39.7	40.1	39.8	5.80	6.15	6.18
Dayton	278.84	305.64	309.88	43.5	43.6	43.4	6.41	7.01	7.14
Toledo	262.58	304.74	308.88	40.9	42.8	42.9	6.42	7.12	7.20
Youngstown—Warren	284.89	327.20	330.87	39.9	40.9	41.0	7.14	8.00	8.07

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		
	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P
OKLAHOMA	\$198.99	\$223.72	\$226.19	40.2	40.9	41.2	\$4.95	\$5.47	\$5.49
Oklahoma City	201.06	220.30	218.97	40.7	41.1	40.7	4.94	5.36	5.38
Tulsa	214.80	238.50	233.56	40.0	40.7	40.2	5.37	5.86	5.81
OREGON	242.19	261.03	264.52	39.0	38.5	38.9	6.21	6.78	6.80
Eugene—Springfield	265.52	295.71	(*)	40.6	40.9	(*)	6.54	7.23	(*)
Jackson County	241.25	264.96	(*)	38.6	38.4	(*)	6.25	6.90	(*)
Portland	236.78	250.90	(*)	33.5	38.0	(*)	6.15	6.60	(*)
PENNSYLVANIA	214.27	237.80	238.20	39.1	39.9	39.9	5.48	5.96	5.57
Allentown—Bethlehem—Easton	213.92	233.70	232.93	38.2	38.5	38.5	5.60	6.07	6.05
Altoona	181.64	200.34	197.37	38.0	38.9	38.7	4.78	5.15	5.10
Delaware Valley ⁸	226.37	248.80	248.80	39.3	40.0	40.0	5.76	6.22	6.22
Erie	226.64	251.22	254.14	40.4	41.8	41.8	5.61	6.01	6.08
Harrisburg	191.39	213.20	209.87	38.9	40.0	39.9	4.92	5.33	5.26
Johnstown	231.87	243.18	259.60	38.2	38.6	40.0	6.07	6.30	6.49
Lancaster	195.11	208.55	214.12	39.9	39.8	40.4	4.89	5.24	5.30
Northeast Pennsylvania	155.41	172.65	170.64	35.4	36.5	36.0	4.39	4.73	4.74
Philadelphia SMSA ¹	223.51	(*)	(*)	35.7	(*)	(*)	5.63	(*)	(*)
Pittsburgh	258.59	304.10	304.61	39.3	41.6	41.5	6.58	7.31	7.34
Reading	200.49	221.65	222.78	39.7	39.3	39.5	5.05	5.64	5.64
Scranton ⁹	157.18	182.30	180.48	36.3	37.9	37.6	4.33	4.81	4.80
Wilkes—Barre—Hazleton ¹⁰	152.93	164.50	163.21	34.6	35.3	34.8	4.42	4.66	4.69
Williamsport	194.83	207.50	208.79	35.6	39.3	39.1	4.92	5.28	5.34
York	195.16	218.48	220.59	41.0	41.3	41.7	4.76	5.29	5.29
RHODE ISLAND	166.27	174.94	175.56	39.4	39.4	39.1	4.22	4.44	4.49
Providence—Warwick—Pawtucket	167.96	175.78	176.40	39.8	39.5	39.2	4.22	4.45	4.50
SOUTH CAROLINA	162.41	179.14	179.11	40.2	40.9	40.8	4.04	4.38	4.39
Charleston—North Charleston	184.37	200.98	204.35	40.7	41.1	41.2	4.53	4.89	4.96
Columbia	162.38	179.82	177.16	39.8	40.5	39.9	4.08	4.44	4.44
Greenville—Spartanburg	159.19	176.58	176.95	39.6	40.5	40.4	4.02	4.36	4.38
SOUTH DAKOTA	187.92	193.43	(*)	40.5	39.8	(*)	4.64	4.86	(*)
Sioux Falls	248.25	238.46	(*)	43.4	41.4	(*)	5.72	5.76	(*)
TENNESSEE	172.00	194.21	195.02	40.0	40.8	40.8	4.30	4.76	4.78
Chattanooga	182.40	200.65	201.28	40.0	40.7	40.5	4.56	4.93	4.97
Knoxville	199.36	231.43	230.74	35.4	41.4	41.8	5.06	5.59	5.52
Memphis	213.00	229.22	229.50	41.2	41.6	41.5	5.17	5.51	5.53
Nashville—Davidson	173.26	208.28	213.00	39.2	41.0	41.2	4.42	5.08	5.17
TEXAS	207.87	228.94	230.04	41.0	41.4	41.3	5.07	5.53	5.57
Amarillo	195.11	234.30	226.26	39.9	42.6	41.9	4.89	5.50	5.40
Austin	175.91	186.52	183.94	41.1	42.2	41.9	4.28	4.42	4.39
Beaumont—Port Arthur—Orange	(*)	317.70	328.18	(*)	41.1	41.7	(*)	7.73	7.87
Corpus Christi	227.55	250.14	247.10	41.0	41.5	41.6	5.55	5.97	5.94
Dallas—Fort Worth	194.62	213.11	213.31	40.8	41.3	41.1	4.77	5.16	5.19
El Paso	144.00	141.98	(*)	37.5	40.8	(*)	3.84	3.48	(*)
Galveston—Texas City	338.91	337.83	350.65	43.9	41.3	42.4	7.72	8.18	8.27
Houston	258.77	285.12	286.18	43.2	43.2	43.1	5.99	6.60	6.64
Lubbock	156.11	173.03	173.84	41.3	42.1	42.4	3.78	4.11	4.10
San Antonio	159.98	176.40	176.82	40.4	41.9	42.0	3.96	4.21	4.21
Waco	169.70	191.06	187.78	40.5	41.9	41.0	4.19	4.56	4.58
Wichita Falls	186.73	202.75	197.11	39.9	39.6	39.9	4.68	5.12	4.94
UTAH	194.43	209.93	210.38	39.2	39.8	39.9	4.96	5.27	5.27
Salt Lake City—Ogden	188.58	197.66	198.47	39.7	40.1	40.2	4.75	4.93	4.94
VERMONT	184.50	196.18	195.88	41.0	41.3	41.5	4.50	4.75	4.72
Burlington	221.62	231.32	216.63	43.2	43.4	41.5	5.13	5.33	5.22
Springfield	191.60	222.49	226.72	40.0	41.9	41.6	4.79	5.31	5.45
VIRGINIA	176.00	192.63	191.75	40.0	40.3	40.2	4.40	4.78	4.77
Bristol	153.87	169.34	173.82	37.9	38.4	38.8	4.06	4.41	4.48
Lynchburg	178.40	198.72	194.75	40.0	41.4	41.0	4.46	4.80	4.75
Norfolk—Virginia Beach—Portsmouth	169.34	219.03	223.65	37.8	41.8	42.6	4.48	5.24	5.25
Northern Virginia ¹¹	206.40	225.63	215.23	40.0	41.4	40.3	5.16	5.45	5.44
Petersburg—Colonial Heights—Hopewell	204.82	227.74	227.54	38.5	38.6	38.5	5.32	5.90	5.91
Richmond	211.85	226.12	228.45	40.2	39.6	39.8	5.27	5.71	5.74

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		
	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P	OCT. 1976	SEP. 1977	OCT. 1977P
VIRGINIA—Continued									
Roanoke	\$163.20	\$172.48	\$174.20	40.8	40.3	40.7	\$4.00	\$4.28	\$4.28
WASHINGTON									
Seattle—Everett	257.15	277.29	(*)	39.5	39.5	(*)	6.51	7.02	(*)
Spokane	221.92	241.80	(*)	38.0	40.1	(*)	5.84	6.03	(*)
Tacoma	254.41	278.64	(*)	39.2	39.3	(*)	6.49	7.09	(*)
WEST VIRGINIA									
Charleston	222.66	245.60	(*)	39.2	38.8	(*)	5.68	6.33	(*)
Huntington—Ashland	263.59	279.35	(*)	41.1	41.4	(*)	6.41	6.72	(*)
Parkersburg—Marietta	238.37	252.96	(*)	39.4	37.2	(*)	6.05	6.80	(*)
Wheeling	237.96	256.07	(*)	40.4	40.2	(*)	5.89	6.37	(*)
WISCONSIN									
Appleton—Oshkosh	222.08	245.60	(*)	39.8	40.5	(*)	5.58	6.46	(*)
Green Bay	238.46	253.59	258.48	40.7	40.8	40.8	5.86	6.22	6.33
Kenosha	225.95	250.67	249.46	41.0	42.2	41.5	5.51	5.94	6.01
La Crosse	243.59	251.89	262.71	43.4	41.8	42.7	5.62	6.02	6.15
Madison	270.38	284.05	286.02	39.6	39.4	38.5	6.83	7.22	7.43
Milwaukee	202.87	211.67	215.66	40.5	40.1	40.4	5.01	5.28	5.33
Racine	257.07	275.72	267.20	40.1	40.7	39.5	6.41	6.77	6.76
WYOMING									
Casper	257.67	283.33	283.75	40.1	41.1	41.0	6.42	6.90	6.92
Cheyenne	246.77	271.08	271.74	40.1	40.2	40.4	6.21	6.74	6.72
	213.15	229.07	221.94	39.4	39.7	38.8	5.41	5.77	5.72
	261.29	264.01	263.25	40.7	39.7	38.6	6.42	6.65	6.82
	233.67	(*)	(*)	39.2	(*)	(*)	5.96	(*)	(*)

¹ Based on the 1967 Standard Industrial Classification Manual.

² Based on 1972 Standard Industrial Classification and adjusted to 1977 benchmark; not strictly comparable with previously published data.

³ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

⁴ Subarea of New York—Northeastern New Jersey.

⁵ Subarea of Rochester Standard Metropolitan Statistical Area.

⁶ Area included in New York and Nassau-Suffolk combined SMSA's.

⁷ Subarea of New York Standard Metropolitan Statistical Area.

⁸ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

⁹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

¹⁰ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

¹¹ 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, 1969 to date

[Per 100 employees]

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions													
1969	4.7	4.6	3.9	4.4	4.5	4.8	6.6	5.1	5.6	5.9	5.0	3.6	2.9
1970	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
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	4.4	4.1	3.7	4.0	4.0	4.9	5.3	4.6	6.0	5.3	4.8	3.6	2.7
1973	4.8	4.6	4.0	4.4	4.5	5.3	5.9	5.1	6.2	5.7	5.2	3.8	2.6
1974	4.2	4.2	3.6	4.0	4.4	5.1	5.4	4.8	5.4	4.9	3.8	2.4	1.8
1975	3.7	3.0	2.7	3.2	3.7	3.9	4.5	4.5	5.1	4.6	3.7	2.8	2.2
1976	3.9	3.8	3.5	4.2	3.9	4.4	4.8	4.2	5.1	4.4	3.5	3.0	2.2
1977	-	3.7	3.7	4.0	3.8	4.6	4.9	4.2	5.2	4.6	3.8 ^P		
1978													
New hires													
1969	3.7	3.3	3.0	3.4	3.5	3.8	5.4	3.9	4.3	4.8	4.0	2.8	2.1
1970	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
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	2.4	2.7	2.9	3.6	4.1	3.4	4.4	4.3	3.8	2.9	2.0
1973	3.9	3.5	3.1	3.5	3.6	4.4	5.0	4.1	5.0	4.7	4.3	3.0	2.0
1974	3.2	3.2	2.7	3.0	3.3	3.9	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	3.0	2.4	1.7	1.3
1976	2.6	2.1	2.1	2.6	2.5	3.0	3.6	2.8	3.5	3.2	2.5	1.9	1.3
1977	-	2.2	2.1	2.6	2.7	3.4	3.7	3.0	3.9	3.5	2.9 ^P		
1978													
Recalls													
1976	1.0	1.4	1.0	1.2	1.0	1.0	.8	1.0	1.1	.8	.7 ^P	.7	.7
1977	-	1.2	1.3	1.1	.9	.8	.8	1.0	1.0	.8	.6 ^P		
1978													
Total separations													
1969	4.9	4.5	4.0	4.4	4.5	4.6	4.6	5.3	6.2	6.6	5.4	4.3	4.2
1970	4.8	4.8	4.3	4.4	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
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	4.2	4.0	3.5	3.8	3.8	3.9	4.2	4.8	5.4	5.3	4.3	3.7	3.7
1973	4.6	4.3	3.7	4.2	4.1	4.4	4.5	5.1	6.5	5.7	4.9	4.2	3.9
1974	4.8	4.9	4.0	4.4	4.2	4.4	4.2	4.9	6.1	5.4	5.0	5.0	5.2
1975	4.2	6.2	4.5	4.2	4.0	3.9	3.6	4.4	4.6	4.3	4.0	3.5	3.4
1976	3.8	3.7	3.1	3.5	3.5	3.4	3.5	4.3	4.9	4.6	4.1	3.4	3.5
1977	-	3.9	3.4	3.4	3.4	3.5	3.5	4.3	5.1	4.8	3.8 ^P		
1978													
Quits													
1969	2.7	2.3	2.1	2.4	2.6	2.7	2.6	2.7	4.0	4.4	3.0	2.1	1.6
1970	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
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	2.2	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	1.9	1.6
1973	2.7	2.2	2.1	2.5	2.5	2.7	2.8	2.8	4.5	3.9	3.0	2.2	1.6
1974	2.3	2.2	1.9	2.3	2.4	2.6	2.5	2.5	4.0	3.2	2.2	1.4	.9
1975	1.4	1.1	.9	1.0	1.1	1.3	1.3	1.5	2.4	2.0	1.6	1.2	.9
1976	1.7	1.3	1.2	1.5	1.6	1.7	1.8	1.8	2.8	2.4	1.7	1.2	1.0
1977	-	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9 ^P		
1978													
Layoffs													
1969	1.2	1.2	1.0	1.0	.9	.9	1.0	1.6	1.1	1.1	1.3	1.3	1.8
1970	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
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	1.4	1.1	1.1	1.0	.8	1.1	1.7	.9	.9	.9	1.0	1.3
1973	.9	1.0	.7	.8	.7	.6	.6	1.4	.8	.7	.8	1.1	1.5
1974	1.5	1.7	1.2	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975	2.1	4.1	2.9	2.5	2.1	1.8	1.5	2.0	1.3	1.4	1.6	1.7	1.9
1976	1.3	1.6	1.1	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977	-	1.7	1.4	1.0	.9	.8	.8	1.5	1.0	1.1	1.1 ^P		
1978													

^Ppreliminary.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates, by industry

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P
-	MANUFACTURING	4.6	3.8	3.5	2.9	0.8	0.6	4.8	3.8	2.8	1.9	1.1	1.1
19,24,25,32-39	DURABLE GOODS	4.1	3.5	3.1	2.7	.7	.5	4.1	3.3	2.3	1.6	.8	.9
20-23,26-31	NONDURABLE GOODS	5.2	4.2	4.0	3.2	.9	.8	5.8	4.5	3.5	2.3	1.4	1.4
	DURABLE GOODS												
19	ORDNANCE AND ACCESSORIES	1.7	1.5	1.1	1.0	.2	.3	2.0	2.1	1.0	.7	.5	1.0
192	Ammunition, except for small arms	1.5	-	.9	-	.2	-	1.5	-	.8	-	.3	-
24	LUMBER AND WOOD PRODUCTS	6.0	4.8	5.3	4.2	.4	.4	6.5	5.0	4.8	3.1	.6	.8
242	Sawmills and planing mills	5.4	-	4.8	-	.5	-	6.0	-	4.5	-	.5	-
2421	Sawmills and planing mills, general	5.0	-	4.4	-	.5	-	5.9	-	4.4	-	.6	-
243	Millwork, plywood and related products	6.4	-	5.8	-	.4	-	6.8	-	5.2	-	.4	-
2431	Millwork	6.6	-	6.0	-	.3	-	6.8	-	5.2	-	.4	-
2432	Veneer and plywood	4.7	-	4.0	-	.4	-	5.5	-	4.0	-	.5	-
244	Wooden containers	8.4	-	7.6	-	.6	-	9.1	-	7.1	-	1.1	-
2441,2	Wooden boxes, shooks, and crates	8.6	-	7.6	-	.7	-	9.4	-	7.2	-	1.3	-
249	Miscellaneous wood products	6.6	-	6.0	-	.4	-	6.6	-	4.7	-	.7	-
25	FURNITURE AND FIXTURES	7.6	6.0	6.5	5.4	.9	.3	6.8	5.1	4.5	3.4	1.0	.6
251	Household furniture	8.4	-	7.2	-	1.0	-	7.3	-	5.0	-	1.0	-
2511	Wood household furniture	8.8	-	7.5	-	1.0	-	8.2	-	5.4	-	1.3	-
2512	Upholstered household furniture	6.7	-	6.2	-	.2	-	5.8	-	4.3	-	.6	-
2515	Mattresses and bedsprings	8.2	-	7.3	-	.6	-	7.0	-	5.3	-	.4	-
252	Office furniture	4.2	-	2.9	-	1.1	-	4.6	-	2.5	-	1.1	-
32	STONE, CLAY, AND GLASS PRODUCTS	3.9	3.2	3.2	2.6	.5	.4	4.5	3.5	2.7	1.8	.9	.9
321	Flat glass .....	.9	-	.5	-	.3	-	2.4	-	.6	-	1.0	-
322	Glass and glassware, pressed or blown	2.7	-	1.6	-	.8	-	3.7	-	1.9	-	1.0	-
3221	Glass containers	2.3	-	1.7	-	.4	-	4.2	-	2.2	-	1.3	-
3229	Pressed and blown glass, nec	3.1	-	1.4	-	1.4	-	3.1	-	1.5	-	.7	-
324	Cement, hydraulic	1.2	-	1.1	-	(¹)	-	2.9	-	1.3	-	.9	-
325	Structural clay products	6.1	-	5.5	-	.4	-	6.8	-	4.5	-	.7	-
3251	Brick and structural clay tile	8.4	-	7.7	-	.3	-	8.4	-	6.3	-	.5	-
326	Pottery and related products ³	3.9	-	3.4	-	.2	-	4.3	-	2.6	-	.3	-
3291	Abrasives products	2.3	-	1.8	-	.1	-	2.8	-	1.7	-	.2	-
33	PRIMARY METAL INDUSTRIES	2.5	2.4	1.5	1.4	.7	.7	3.8	3.2	1.3	.8	1.5	1.5
331	Blast furnace and basic steel products	1.7	-	.6	-	.8	-	4.3	-	.9	-	2.4	-
3312	Blast furnaces and steel mills	1.7	-	.5	-	.9	-	4.5	-	.9	-	2.5	-
332	Iron and steel foundries	3.6	-	2.8	-	.6	-	3.7	-	1.9	-	.8	-
3321	Gray iron foundries	3.3	-	2.6	-	.4	-	3.4	-	1.9	-	.5	-
3322	Malleable iron foundries	4.3	-	2.2	-	1.9	-	4.5	-	1.8	-	1.7	-
3323	Steel foundries	4.2	-	3.4	-	.6	-	4.2	-	1.8	-	1.2	-
333,4	Nonferrous metals	1.9	-	1.3	-	.4	-	2.7	-	1.5	-	.5	-
335	Nonferrous rolling and drawing	2.4	-	1.3	-	.3	-	2.5	-	1.0	-	.7	-
3351	Copper rolling and drawing	2.3	-	1.7	-	.6	-	3.3	-	1.3	-	1.2	-
3352	Aluminum rolling and drawing	1.4	-	1.0	-	.3	-	1.9	-	.9	-	.7	-
3357	Nonferrous wire drawing, and insulating	3.6	-	1.4	-	.2	-	2.4	-	.9	-	.6	-
336	Nonferrous foundries	5.3	-	4.5	-	.6	-	5.6	-	3.2	-	1.0	-
3361	Aluminum castings	6.1	-	5.3	-	.6	-	6.4	-	3.7	-	1.3	-
3362,9	Other nonferrous castings	4.4	-	3.5	-	.6	-	4.6	-	2.7	-	.6	-
339	Miscellaneous primary metal products	2.9	-	2.1	-	.7	-	2.6	-	1.3	-	.4	-
3391	Iron and steel forgings	2.9	-	2.0	-	.8	-	2.6	-	1.1	-	.4	-
34	FABRICATED METAL PRODUCTS	4.5	3.9	3.8	3.1	.5	.5	4.8	3.6	2.6	1.8	1.1	.9
341	Metal cans	2.2	-	.9	-	.8	-	7.4	-	1.3	-	5.0	-
342	Cutlery, hand tools, and hardware	4.0	-	3.5	-	.2	-	3.6	-	2.4	-	.4	-
3421,3,5	Cutlery and hand tools, incl. saws	4.1	-	3.6	-	.3	-	3.6	-	2.5	-	.3	-
3428	Hardware, nec	3.9	-	3.5	-	.2	-	3.7	-	2.4	-	.5	-
343	Plumbing and heating, except electric	5.2	-	4.1	-	.9	-	4.6	-	2.6	-	1.0	-
3431,2	Sanitary ware and plumbers' brass goods	4.0	-	2.4	-	1.5	-	4.7	-	2.4	-	1.3	-
3433	Heating equipment, except electric	6.1	-	5.5	-	.5	-	4.6	-	2.7	-	.7	-
344	Fabricated structural metal products	5.4	-	4.7	-	.5	-	5.6	-	3.1	-	1.3	-
3441	Fabricated structural steel	4.8	-	3.8	-	.9	-	6.1	-	2.8	-	2.2	-
3443	Fabricated plate work (boiler shops)	2.8	-	2.3	-	.4	-	3.2	-	1.4	-	.9	-
3446,9	Architectural and misc. metal work	6.3	-	5.7	-	.5	-	7.4	-	3.9	-	1.0	-
345	Screw machine products, bolts, etc.	3.8	-	3.3	-	.3	-	3.2	-	2.2	-	.3	-
3462	Bolts, nuts, rivets, and washers	3.1	-	2.4	-	.4	-	2.7	-	1.7	-	.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P
DURABLE GOODS — Continued													
FABRICATED METAL PRODUCTS — Continued													
346	Metal stampings	3.7	-	2.7	-	0.6	-	3.4	-	1.8	-	0.8	-
348	Miscellaneous fabricated wire products	5.3	-	4.7	-	.5	-	5.0	-	3.5	-	.6	-
349	Miscellaneous fabricated metal products	3.4	-	2.8	-	.4	-	4.1	-	2.4	-	.8	-
3494,8	Valves, pipe, and pipe fittings	2.9	-	2.4	-	.4	-	3.6	-	1.9	-	.8	-
35	MACHINERY, EXCEPT ELECTRICAL	3.2	3.0	2.5	2.3	.4	0.4	3.1	2.4	1.7	1.2	.6	0.5
351	Engines and turbines ³	3.0	-	1.8	-	.5	-	1.7	-	.7	-	.1	-
3511	Steam engines and turbines	1.2	-	.3	-	(¹)	-	1.8	-	.6	-	0	-
3519	Internal combustion engines, nec ³	4.1	-	2.6	-	.8	-	1.7	-	.7	-	.2	-
352	Farm machinery	3.6	-	2.1	-	1.0	-	3.9	-	1.5	-	1.5	-
353	Construction and related machinery ³	2.9	-	2.3	-	.5	-	2.5	-	1.4	-	.4	-
3531,2	Construction and mining machinery ³	2.3	-	1.7	-	.4	-	1.8	-	1.0	-	.3	-
3533	Oil field machinery ³	4.4	-	3.5	-	.8	-	3.2	-	2.2	-	.1	-
3535,6	Conveyors, hoists, cranes, monorails	2.9	-	2.4	-	.5	-	3.1	-	1.4	-	.9	-
354	Metal working machinery ³	3.2	-	2.7	-	.3	-	2.8	-	1.8	-	.3	-
3541	Machine tools, metal cutting types	1.9	-	1.6	-	.2	-	2.1	-	1.3	-	.2	-
3545	Machine tool accessories ³	3.1	-	2.8	-	.1	-	2.6	-	1.8	-	.2	-
3542,8	Miscellaneous metal working machinery	3.2	-	2.4	-	.5	-	2.8	-	1.7	-	.4	-
355	Special industry machinery	2.8	-	2.2	-	.4	-	2.7	-	1.5	-	.6	-
3551	Food products machinery	2.9	-	2.1	-	.5	-	2.9	-	1.5	-	.8	-
3552	Textile machinery	3.2	-	2.0	-	.9	-	2.8	-	1.5	-	.7	-
356	General industrial machinery	2.4	-	1.9	-	.2	-	2.8	-	1.5	-	.6	-
3561	Pumps and compressors	2.1	-	1.7	-	.1	-	2.4	-	1.4	-	.2	-
3562	Ball and roller bearings	2.0	-	1.3	-	.1	-	3.0	-	1.3	-	.7	-
3566	Power transmission equipment	2.2	-	1.8	-	.2	-	2.4	-	1.3	-	.5	-
357	Office and computing machines	3.3	-	2.7	-	.1	-	3.2	-	2.2	-	.2	-
3573	Electronic computing equipment	3.5	-	2.9	-	.1	-	3.1	-	2.2	-	.1	-
358	Service industry machines	3.7	-	3.0	-	.4	-	4.3	-	1.9	-	1.3	-
3585	Refrigeration machinery	3.8	-	2.9	-	.5	-	4.7	-	1.8	-	1.7	-
36	ELECTRICAL EQUIPMENT AND SUPPLIES	3.6	3.4	2.6	2.5	.4	.3	3.3	2.9	1.9	1.4	.5	.6
361	Electric test and distributing equipment	3.2	-	2.5	-	.2	-	2.9	-	1.9	-	.3	-
3611	Electric measuring instruments	3.2	-	2.4	-	.1	-	2.5	-	1.8	-	.2	-
3612	Transformers	3.3	-	2.2	-	.3	-	3.4	-	1.7	-	.5	-
3613	Switchgear and switchboard apparatus	3.3	-	2.6	-	.2	-	3.1	-	2.1	-	.2	-
362	Electrical industrial apparatus	2.7	-	1.9	-	.4	-	3.0	-	1.7	-	.5	-
3621	Motors and generators	2.7	-	1.9	-	.4	-	2.8	-	1.5	-	.5	-
3622	Industrial controls	2.8	-	1.9	-	.4	-	3.4	-	2.0	-	.4	-
363	Household appliances	4.9	-	3.4	-	.8	-	4.8	-	2.7	-	.9	-
3632	Household refrigerators and freezers	3.6	-	.6	-	1.6	-	4.1	-	1.5	-	1.0	-
3633	Household laundry equipment	1.4	-	.9	-	.1	-	5.4	-	1.0	-	3.4	-
3634	Electric housewares and fans	7.8	-	6.3	-	1.2	-	6.2	-	4.6	-	.5	-
364	Electric lighting and wiring equipment	4.2	-	3.3	-	.5	-	3.8	-	2.2	-	.5	-
3641	Electric lamps	2.4	-	1.5	-	.2	-	2.5	-	.9	-	.5	-
3642	Lighting fixtures	6.1	-	4.6	-	1.0	-	4.8	-	2.9	-	.6	-
3643,4	Wiring devices	3.5	-	3.0	-	.2	-	3.6	-	2.2	-	.5	-
365	Radio and TV receiving equipment	5.1	-	2.7	-	1.1	-	4.5	-	1.6	-	1.2	-
366	Communication equipment	2.5	-	1.8	-	.3	-	2.1	-	1.1	-	.3	-
3661	Telephone and telegraph apparatus	2.3	-	1.8	-	.3	-	1.6	-	.6	-	.4	-
3662	Radio and TV communication equipment	2.6	-	1.8	-	.2	-	2.4	-	1.4	-	.3	-
367	Electronic components and accessories	3.9	-	3.2	-	.4	-	3.7	-	2.4	-	.4	-
3671,3	Electron tubes	3.4	-	2.6	-	.2	-	3.3	-	1.9	-	.2	-
3674,9	Other electronic components	4.0	-	3.3	-	.4	-	3.8	-	2.4	-	.4	-
369	Miscellaneous electrical equipment and supplies	3.5	-	3.0	-	.3	-	2.8	-	1.6	-	.5	-
3694	Engine electrical equipment	3.5	-	2.9	-	.2	-	2.7	-	1.5	-	.4	-
37	TRANSPORTATION EQUIPMENT	5.2	-	2.9	-	1.9	-	3.8	-	1.8	-	1.0	-
371	Motor vehicles and equipment	5.8	-	2.5	-	2.7	-	3.0	-	1.5	-	.6	-
3711	Motor vehicles	7.0	-	2.0	-	4.4	-	2.4	-	1.2	-	.3	-
3712	Passenger car bodies	2.4	-	2.1	-	(¹)	-	1.4	-	.6	-	.1	-
3713	Truck and bus bodies	12.8	-	4.4	-	8.3	-	5.4	-	3.7	-	.2	-
3714	Motor vehicle parts and accessories	4.1	-	2.5	-	1.1	-	3.3	-	1.5	-	.9	-
372	Aircraft and parts	2.1	-	1.5	-	.3	-	2.1	-	.9	-	.7	-
3721	Aircraft	1.9	-	1.3	-	.3	-	2.4	-	.9	-	1.1	-
3722	Aircraft engines and engine parts	1.7	-	1.2	-	.2	-	1.1	-	.5	-	.1	-
3723,9	Other aircraft parts and equipment	3.3	-	2.6	-	.6	-	2.7	-	1.5	-	.5	-
373	Ship and boat building and repairing ³	7.7	-	4.4	-	2.9	-	7.6	-	2.9	-	3.1	-
3731	Ship building and repairing ³	8.3	-	4.4	-	3.6	-	8.1	-	2.8	-	3.6	-
374	Railroad equipment	5.3	-	2.3	-	2.4	-	3.9	-	1.1	-	1.6	-
375,9	Other transportation equipment	8.3	-	7.4	-	.7	-	8.6	-	5.3	-	.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P	Sept. 1977	Oct. 1977 ^P
DURABLE GOODS — Continued													
38	INSTRUMENTS AND RELATED PRODUCTS	2.9	2.9	2.4	2.5	0.2	0.2	3.2	2.6	1.9	1.4	0.5	0.4
381	Engineering and scientific instruments	2.5	-	2.3	-	.2	-	2.3	-	1.5	-	.2	-
382	Mechanical measuring and control devices	3.0	-	2.4	-	.2	-	2.9	-	1.7	-	.2	-
3821	Mechanical measuring devices	2.7	-	2.2	-	.2	-	2.6	-	1.7	-	.1	-
3822	Automatic temperature controls	3.7	-	2.7	-	.3	-	3.5	-	1.8	-	.4	-
383,5	Optical and ophthalmic goods	3.6	-	3.2	-	.2	-	3.8	-	2.3	-	.7	-
384	Medical instruments and supplies	3.7	-	3.0	-	.3	-	3.7	-	2.3	-	.6	-
386	Photographic equipment and supplies	1.0	-	.8	-	.1	-	2.5	-	1.5	-	.3	-
387	Watches, clocks, and watchcases	6.1	-	5.3	-	.4	-	6.3	-	3.5	-	1.4	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	6.4	5.4	5.1	4.5	.9	.7	6.7	5.6	4.0	2.6	1.3	1.7
391	Jewelry, silverware, and plated ware	6.5	-	5.1	-	1.1	-	5.1	-	3.8	-	.4	-
394	Toys and sporting goods	7.3	-	5.8	-	1.1	-	9.4	-	5.0	-	2.1	-
3941,3	Games, toys, dolls and play vehicles	9.2	-	7.9	-	1.0	-	11.1	-	6.5	-	1.4	-
3949	Sporting and athletic goods, nec	4.9	-	3.3	-	1.2	-	7.2	-	3.2	-	3.0	-
395	Pens, pencils, office and art supplies	5.5	-	4.5	-	.7	-	4.1	-	2.7	-	.2	-
396	Costume jewelry and notions	7.6	-	6.2	-	1.1	-	7.5	-	5.0	-	1.3	-
393,9	Other manufacturing industries	5.5	-	4.4	-	.7	-	5.6	-	3.2	-	1.3	-
NONDURABLE GOODS													
20	FOOD AND KINDRED PRODUCTS	8.1	5.8	6.0	4.0	1.8	1.5	9.5	1.3	5.3	3.1	3.1	3.3
201	Meat products	8.0	-	6.1	-	1.4	-	7.5	-	5.3	-	1.1	-
2011	Meat packing plants	4.7	-	2.8	-	1.5	-	4.7	-	2.1	-	1.6	-
2015	Poultry dressing plants	13.7	-	12.4	-	.6	-	12.7	-	11.1	-	.1	-
204	Grain mill products	3.8	-	3.2	-	.4	-	4.4	-	2.6	-	1.1	-
2041	Flour and other grain mill products	3.5	-	3.2	-	.2	-	4.1	-	2.8	-	.6	-
2042	Prepared feeds for animals and fowls	4.6	-	4.1	-	.3	-	4.8	-	3.1	-	.8	-
205	Bakery products	3.6	-	3.2	-	.3	-	4.1	-	2.7	-	.7	-
2051	Bread, cake, and related products	3.4	-	3.1	-	.2	-	3.9	-	2.7	-	.5	-
2052	Cookies and crackers	4.9	-	3.8	-	1.0	-	4.9	-	2.3	-	1.7	-
207	Confectionery and related products	7.4	-	4.7	-	2.5	-	5.6	-	3.0	-	1.7	-
2071	Confectionery products	9.6	-	5.9	-	3.4	-	6.6	-	3.6	-	2.0	-
208	Beverages ³	4.7	-	3.9	-	.6	-	6.2	-	3.5	-	1.7	-
2082	Malt liquors	2.5	-	1.2	-	1.0	-	4.6	-	1.0	-	2.8	-
21	TOBACCO MANUFACTURES	4.6	-	2.5	-	1.8	-	2.7	-	1.7	-	.3	-
211	Cigarettes	1.1	-	.5	-	.3	-	1.1	-	.5	-	0	-
212	Cigars	4.8	-	3.6	-	.6	-	5.2	-	3.6	-	.9	-
22	TEXTILE MILL PRODUCTS	5.0	4.4	4.1	3.6	.5	.4	5.3	4.4	3.6	2.9	.7	.6
221	Weaving mills, cotton	3.7	-	3.0	-	.1	-	4.3	-	2.9	-	.4	-
222	Weaving mills, synthetics	4.7	-	3.3	-	1.0	-	4.9	-	3.1	-	.7	-
223	Weaving and finishing mills, wool	4.6	-	3.7	-	.6	-	5.8	-	3.8	-	1.2	-
224	Narrow fabric mills	4.3	-	3.4	-	.7	-	4.5	-	3.1	-	.6	-
225	Knitting mills	5.9	-	5.0	-	.7	-	5.8	-	4.1	-	.8	-
2251	Women's hosiery, except socks	5.4	-	4.6	-	.6	-	4.9	-	3.8	-	.5	-
2252	Hosiery, nec	5.9	-	5.5	-	.3	-	5.7	-	4.7	-	.5	-
2254	Knit underwear mills	5.6	-	5.2	-	.4	-	5.2	-	4.1	-	.1	-
226	Textile finishing, except wool	3.7	-	3.0	-	.3	-	5.0	-	2.8	-	1.2	-
227	Floor covering mills	4.6	-	4.1	-	.3	-	4.4	-	3.1	-	.3	-
228	Yarn and thread mills	6.4	-	5.6	-	.3	-	6.6	-	4.9	-	.5	-
229	Miscellaneous textile goods	4.2	-	3.1	-	.7	-	4.6	-	2.6	-	.7	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	6.0	5.7	4.4	3.9	1.3	1.5	6.2	5.3	4.0	3.0	1.3	1.5
231	Men's and boys' suits and coats	3.9	-	2.8	-	.7	-	4.9	-	2.5	-	1.7	-
232	Men's and boys' furnishings	6.2	-	5.0	-	.9	-	6.6	-	5.1	-	.6	-
2321	Men's and boys' shirts and nightwear	5.4	-	4.1	-	.9	-	6.6	-	4.7	-	1.0	-
2327	Men's and boys' separate trousers	5.5	-	4.6	-	.6	-	5.8	-	4.9	-	.2	-
2328	Men's and boys' work clothing	7.7	-	6.6	-	.8	-	7.7	-	6.6	-	.3	-
234	Women's and children's undergarments	6.4	-	5.4	-	.8	-	6.3	-	4.7	-	.4	-
2341	Women's and children's underwear	6.9	-	5.9	-	.8	-	6.9	-	5.4	-	.3	-
2342	Corsets and allied garments	5.0	-	3.6	-	.9	-	4.3	-	2.5	-	.8	-
26	PAPER AND ALLIED PRODUCTS	3.1	2.4	2.4	1.8	.4	.3	3.9	2.7	2.2	1.1	1.0	.8
261,2,8	Paper and pulp mills	2.0	-	1.2	-	.6	-	2.7	-	1.8	-	.4	-
263	Paperboard mills	1.9	-	1.5	-	.3	-	3.5	-	1.8	-	1.0	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Sept. 1977	Oct. 1977 ^p	Sept. 1977	Oct. 1977 ^p	Sept. 1977	Oct. 1977 ^p	Sept. 1977	Oct. 1977 ^p	Sept. 1977	Oct. 1977 ^p	Sept. 1977	Oct. 1977 ^p
NONDURABLE GOODS—Continued													
PAPER AND ALLIED PRODUCTS—Continued													
264	Miscellaneous converted paper products	4.0	-	3.5	-	0.3	-	4.9	-	2.4	-	1.6	-
2643	Bags, except textile bags	3.5	-	3.2	-	.3	-	4.5	-	2.3	-	1.3	-
265	Paperboard containers and boxes	3.5	-	2.9	-	.4	-	4.3	-	2.4	-	1.0	-
2651,2	Folding and setup paperboard boxes	3.9	-	3.4	-	.4	-	4.9	-	2.8	-	1.2	-
2653	Corrugated and solid fiber boxes	3.4	-	2.8	-	.4	-	3.9	-	3.2	-	.8	-
27	PRINTING AND PUBLISHING	4.1	3.4	3.5	2.9	.4	0.4	4.0	3.1	2.7	2.0	.6	0.6
28	CHEMICALS AND ALLIED PRODUCTS	1.8	1.4	1.4	1.1	.2	.2	2.4	1.5	1.2	.6	.5	.4
281	Industrial chemicals	1.2	-	1.0	-	.1	-	1.6	-	.8	-	.2	-
282	Plastics materials and synthetics	1.2	-	.8	-	.2	-	2.1	-	1.0	-	.4	-
2821	Plastics materials and resins	1.6	-	1.1	-	.2	-	2.5	-	1.3	-	.2	-
2823,4	Synthetic fibers	.8	-	.5	-	.2	-	1.8	-	.9	-	.6	-
283	Drugs	2.0	-	1.8	-	.1	-	2.5	-	1.3	-	.5	-
2834	Pharmaceutical preparations	2.0	-	1.8	-	.1	-	2.5	-	1.4	-	.6	-
284	Soap, cleaners, and toilet goods	2.9	-	2.4	-	.4	-	3.5	-	1.7	-	.9	-
2841	Soap and other detergents	1.6	-	1.3	-	.1	-	2.2	-	1.1	-	.5	-
2844	Toilet preparations	4.0	-	3.2	-	.6	-	4.3	-	2.3	-	.8	-
285	Paints and allied products	2.3	-	2.0	-	.1	-	3.6	-	1.9	-	.8	-
286,9	Other chemical products	3.0	-	2.2	-	.5	-	3.0	-	1.8	-	.5	-
29	PETROLEUM AND COAL PRODUCTS	2.2	1.9	2.0	1.7	.1	.1	4.1	1.9	1.5	.8	.5	.5
291	Petroleum refining	1.4	-	1.3	-	(¹)	-	3.8	-	1.0	-	.5	-
295,9	Other petroleum and coal products	4.7	-	4.3	-	.2	-	5.1	-	2.9	-	.8	-
30	RUBBER AND PLASTICS PRODUCTS, NEC	5.3	4.8	4.5	3.9	.4	.5	5.9	4.6	3.7	2.5	1.0	1.0
301	Tires and inner tubes	1.4	-	.8	-	.2	-	2.8	-	.9	-	1.1	-
302,3,6	Other rubber products	4.0	-	3.3	-	.4	-	5.0	-	3.0	-	1.0	-
307	Miscellaneous plastics products	7.1	-	6.2	-	.5	-	7.3	-	4.8	-	1.0	-
31	LEATHER AND LEATHER PRODUCTS	7.0	6.3	5.9	5.2	.8	.8	8.3	6.4	5.5	4.1	1.8	1.2
311	Leather tanning and finishing	4.6	-	3.8	-	.7	-	6.5	-	3.4	-	1.9	-
314	Footwear, except rubber	7.7	-	6.4	-	.9	-	8.8	-	6.2	-	1.6	-
NONMANUFACTURING													
10	METAL MINING	2.6	2.1	2.1	1.8	.2	.1	9.7	3.4	2.3	1.2	5.0	1.2
101	Iron ores	1.5	-	1.0	-	.1	-	2.4	-	1.1	-	.3	-
102	Copper ores	1.2	-	.5	-	.3	-	16.2	-	1.3	-	10.7	-
11,12	COAL MINING	1.9	2.1	1.3	1.5	.3	.3	2.2	1.5	1.6	.9	(¹)	.2
12	Bituminous coal and lignite mining	1.9	-	1.3	-	.3	-	2.2	-	1.6	-	(¹)	-
481	COMMUNICATION:	1.0	-	-	-	(¹)	-	1.1	-	.5	-	.2	-
482	Telephone communication	(*)	-	-	-	(*)	-	(*)	-	(*)	-	(*)	-

¹ Less than 0.05.

² Data relate to all employees except messengers.

³ Total accession rates have been revised for the following industries for the time periods indicated:

^p = preliminary.

* = Not available.

Industry (SIC code)	Month	Originally published	Revised
1976			
373	May	7.4	7.6
3731	May	7.8	8.1
3731	Annual average	6.7	6.8
354	July	2.7	2.8
3545	July	2.1	2.4
353	September	2.2	2.3
3533	September	3.1	3.4
208	September	4.0	4.1
2082	September	2.9	3.3
1977			
351	January	1.3	1.6
3519	January	1.3	2.3
326	January	3.9	4.3
3531	February	4.9	5.2

NOTE: These revisions result from the application of improved editing procedures plus the discrete computation of recall rates that are being introduced in this issue of Employment and Earnings.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED LABOR TURNOVER

D-3. Labor turnover rates in manufacturing, 1966 to date, seasonally adjusted

[Per 100 employees]

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions												
1966	4.9	5.0	5.3	5.1	5.0	4.9	4.9	5.0	5.0	4.9	4.7	4.7
1967	4.5	4.4	4.3	4.3	4.4	4.5	4.4	4.3	4.4	4.4	4.5	4.6
1968	4.4	4.4	4.6	4.6	4.6	4.5	4.5	4.7	4.6	4.8	4.9	4.9
1969	4.9	4.8	4.9	4.9	4.7	5.0	4.7	4.5	4.7	4.6	4.5	4.6
1970	4.4	4.4	4.0	4.0	4.1	4.1	4.1	3.9	3.9	3.8	3.7	3.8
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	4.3	4.4	4.2	4.3	4.4	4.4	4.6	4.6	4.9
1973	5.0	5.1	5.0	4.8	4.7	4.6	4.6	4.6	4.7	4.8	4.9	4.7
1974	4.7	4.6	4.5	4.5	4.6	4.3	4.2	4.1	3.9	3.6	3.1	3.1
1975	3.1	3.2	3.2	3.7	3.6	3.7	4.0	4.0	3.8	3.7	3.8	3.9
1976	4.1	4.2	4.3	4.1	4.0	3.8	3.8	3.8	3.7	3.6 ^p	3.9	4.1
1977	4.0	4.6	4.2	4.0	4.1	3.9	3.8	3.8	3.9	3.8 ^p		
1978												
New hires												
1966	3.7	3.8	4.1	4.0	4.0	3.9	3.8	3.7	3.7	3.9	3.7	3.6
1967	3.4	3.4	3.2	3.1	3.1	3.3	3.2	3.1	3.3	3.3	3.4	3.5
1968	3.3	3.3	3.4	3.5	3.5	3.4	3.4	3.5	3.6	3.6	3.6	3.7
1969	3.7	3.8	3.9	3.8	3.7	3.9	3.6	3.5	3.7	3.6	3.5	3.5
1970	3.4	3.2	2.9	2.8	2.7	2.8	2.8	2.7	2.6	2.5	2.4	2.4
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	3.0	3.1	3.2	3.2	3.1	3.2	3.2	3.4	3.5	3.7	3.8
1973	4.0	4.2	4.1	3.9	3.9	3.8	3.7	3.7	3.7	3.8	3.9	3.8
1974	3.8	3.6	3.6	3.5	3.5	3.3	3.2	3.1	2.9	2.6	2.2	1.9
1975	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.2	2.2	2.3	2.5
1976	2.6	2.8	2.9	2.8	2.7	2.7	2.5	2.5	2.4	2.4 ^p	2.5	2.6
1977	2.7	2.9	3.0	3.0	3.0	2.8	2.7	2.7	2.7	2.7		
1978												
Total separations												
1966	4.3	4.3	4.5	4.5	4.6	4.7	4.9	4.8	4.6	4.6	4.8	4.9
1967	4.8	4.9	4.9	4.7	4.6	4.6	4.5	4.3	4.5	4.5	4.4	4.5
1968	4.7	4.6	4.5	4.5	4.4	4.5	4.6	4.7	4.7	4.6	4.6	4.6
1969	4.6	4.9	4.9	4.8	4.8	5.0	4.8	4.9	4.9	5.0	4.9	4.9
1970	5.0	5.2	4.9	5.2	5.0	4.8	4.5	4.8	4.8	5.0	4.7	4.4
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	4.0	4.3	4.2	4.5	4.4	4.1	4.0	4.2	4.2	4.4
1973	4.5	4.6	4.6	4.5	4.6	4.6	4.7	4.6	4.4	4.6	4.7	4.9
1974	4.9	4.9	4.9	4.8	4.6	4.6	4.5	4.6	4.5	4.8	5.1	5.0
1975	5.2	5.0	4.6	4.5	4.6	4.3	3.9	3.9	3.8	3.8	3.8	3.6
1976	3.5	3.6	3.9	3.9	3.8	3.9	3.9	4.0	3.9	3.9	3.6	3.7
1977	3.8	4.1	3.8	3.8	3.8	3.8	3.9	3.9	3.9	3.7 ^p		
1978												
Quits												
1966	2.3	2.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7
1967	2.5	2.5	2.4	2.4	2.3	2.4	2.2	2.2	2.3	2.3	2.3	2.4
1968	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.6	2.6	2.5	2.6	2.6
1969	2.7	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6
1970	2.5	2.5	2.3	2.3	2.1	2.1	2.1	2.0	2.0	1.9	1.8	1.9
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	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.6
1973	2.7	2.9	2.8	2.8	2.7	2.7	2.8	2.7	2.6	2.8	2.8	2.8
1974	2.7	2.7	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.0	1.8	1.6
1975	1.4	1.3	1.2	1.2	1.3	1.3	1.4	1.4	1.3	1.5	1.6	1.6
1976	1.6	1.7	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.7
1977	1.8	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8 ^p		
1978												
Layoffs												
1966	1.2	1.1	1.1	1.1	1.1	1.2	1.5	1.2	1.0	1.1	1.2	1.3
1967	1.4	1.5	1.6	1.5	1.4	1.3	1.4	1.3	1.3	1.3	1.2	1.2
1968	1.4	1.3	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.1
1969	1.0	1.1	1.1	1.0	1.1	1.3	1.1	1.2	1.2	1.3	1.3	1.4
1970	1.5	1.7	1.8	1.9	1.9	1.9	1.6	1.9	1.9	2.2	2.0	1.7
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	1.1	1.4	1.3	1.1	1.0	1.0	.9	.9
1973	.8	.7	.8	.8	.8	.8	1.1	.9	.8	.8	.9	1.1
1974	1.3	1.2	1.1	1.1	1.1	1.2	1.2	1.4	1.4	1.9	2.4	2.5
1975	2.9	2.9	2.6	2.5	2.5	2.2	1.7	1.7	1.7	1.6	1.5	1.3
1976	1.1	1.0	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.3	1.2
1977	1.2	1.4	1.1	1.1	1.1	1.2	1.3	1.3	1.3	1.1 ^p		
1978												

p=preliminary.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

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

[Per 100 employees]

State and area	Accession rates				Separation rates					
	Total		New hires		Total		Quits		Layoffs	
	Aug. 1977	Sept. 1977 ^P	Aug. 1977	Sept. 1977 ^P	Aug. 1977	Sept. 1977 ^P	Aug. 1977	Sept. 1977 ^P	Aug. 1977	Sept. 1977 ^P
ALABAMA:										
Birmingham	3.3	3.2	2.3	2.2	4.3	3.2	1.8	1.3	1.5	1.1
Mobile ¹	10.6	5.6	3.0	2.1	7.1	8.6	3.6	2.2	2.5	5.6
ALASKA	8.9	7.0	7.9	5.4	28.3	14.3	11.8	7.0	15.3	6.6
ARIZONA	6.2	5.0	4.9	4.2	5.6	4.7	3.5	2.8	1.0	.8
Phoenix	5.8	5.0	4.5	4.1	5.5	4.3	3.4	2.7	.9	.5
ARKANSAS	9.4	7.4	7.8	6.5	9.5	7.1	7.5	5.2	.5	.6
Fort Smith	9.1	8.9	8.0	8.1	13.5	8.1	11.2	6.4	.5	(²)
Little Rock—North Little Rock	7.5	6.7	6.6	6.1	7.0	5.8	4.9	4.1	.4	.4
Pine Bluff	6.1	4.5	4.6	4.1	6.4	4.4	4.4	3.3	.9	.5
COLORADO ³	5.0	5.4	4.2	4.6	6.1	5.5	4.4	3.5	.7	.9
Denver—Boulder ³	4.9	5.1	4.4	4.4	5.8	5.4	4.2	3.2	.4	1.3
CONNECTICUT	2.8	2.6	2.0	2.0	3.1	3.1	1.7	1.6	.6	.6
Hartford	1.8	2.1	1.4	1.7	1.9	2.3	1.1	1.1	.2	.5
DELAWARE ¹	8.4	3.0	1.8	1.5	7.9	2.5	1.2	1.1	5.9	.6
Wilmington ¹	8.1	2.7	1.5	1.2	7.9	2.3	1.0	1.0	6.1	.7
DISTRICT OF COLUMBIA:										
Washington SMSA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
FLORIDA	6.4	5.5	5.3	4.7	5.9	5.6	3.7	3.4	.9	1.0
Fort Lauderdale—Hollywood	6.9	5.7	6.4	5.3	6.0	5.5	4.2	3.7	.5	.5
Jacksonville	7.1	4.5	5.4	3.7	5.3	5.4	2.9	2.9	1.1	1.5
Miami	6.0	4.8	5.0	4.4	5.9	5.3	3.3	3.2	1.1	1.2
Orlando	6.0	5.4	4.6	4.6	5.0	4.4	3.2	3.3	.9	.3
Pensacola	1.7	1.7	1.7	1.6	2.6	2.1	1.8	1.7	(²)	(²)
Tampa—St. Petersburg	8.3	6.1	6.2	5.5	6.9	6.8	4.7	4.2	1.0	1.4
West Palm Beach—Boca Raton	4.5	3.2	3.8	2.9	3.1	2.9	2.2	1.7	(²)	.3
GEORGIA	5.2	4.7	4.4	4.0	4.9	5.2	3.5	3.5	.3	.6
Atlanta ⁴	4.5	4.5	3.9	3.9	3.9	4.8	2.5	3.0	.3	.8
HAWAII ⁵	2.1	2.3	1.7	1.9	2.7	3.1	1.5	1.1	.5	1.3
IDAHO ⁶	7.4	5.8	7.0	5.2	8.0	6.0	6.5	4.1	.5	1.1
ILLINOIS:										
Chicago SMSA	3.4	3.7	2.7	3.1	4.3	4.0	2.4	2.1	.7	.7
INDIANA	4.3	3.7	3.3	2.8	4.7	3.5	2.8	1.9	.8	.7
Indianapolis ⁷	3.7	3.8	2.6	3.0	3.5	3.5	2.4	2.2	.2	.4
IOWA ³	4.2	(*)	3.4	(*)	5.6	(*)	3.0	(*)	1.8	(*)
Cedar Rapids ³	3.0	(*)	2.1	(*)	2.8	(*)	1.4	(*)	1.0	(*)
Des Moines ³	4.3	(*)	3.7	(*)	6.6	(*)	2.8	(*)	2.6	(*)
KANSAS	6.3	5.1	5.4	4.5	6.2	4.7	4.8	3.4	.4	.5
Topeka	2.9	3.8	2.7	3.6	5.6	4.6	3.9	3.2	1.3	.8
Wichita	6.7	5.0	5.6	4.1	5.0	4.1	3.9	3.2	(²)	.1
KENTUCKY	4.8	3.8	3.4	2.7	5.1	4.6	3.1	2.5	.9	.9
Louisville	2.9	2.6	1.9	1.3	3.2	3.4	1.6	1.7	.4	.4
LOUISIANA										
New Orleans	4.8	2.8	4.1	2.2	7.1	3.5	4.3	1.5	1.5	1.1
MAINE	7.8	6.5	6.3	5.2	7.6	8.4	4.8	4.9	1.5	2.4
Portland	3.8	4.4	3.4	3.2	5.1	5.6	3.1	4.0	.7	.6
MARYLAND	4.9	3.0	2.3	2.2	4.4	3.3	1.8	1.5	1.7	1.0
Baltimore	5.2	2.8	2.0	2.1	4.4	3.1	1.5	1.3	2.1	1.1
MASSACHUSETTS	4.5	4.2	2.2	3.3	6.4	4.2	1.6	2.6	3.9	.8
Boston	3.0	3.4	1.9	2.8	6.1	3.6	1.5	2.2	3.8	.8
MICHIGAN	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Detroit	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Flint	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Grand Rapids	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Lansing—East Lansing	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

See footnotes at end of table.

**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		Total		Quits		Layoffs	
	Aug. 1977	Sept. 1977 ^P	Aug. 1977	Sept. 1977 ^P	Aug. 1977	Sept. 1977 ^P	Aug. 1977	Sept. 1977 ^P	Aug. 1977	Sept. 1977 ^P
MINNESOTA	4.7	3.9	3.8	3.0	4.4	5.9	2.9	3.4	0.8	1.9
Minneapolis—St. Paul	3.5	3.1	2.9	2.6	3.6	4.4	2.3	2.9	.6	.8
MISSISSIPPI:										
Jackson	4.2	3.8	2.8	2.9	4.4	4.3	3.3	2.9	.2	.7
MISSOURI⁸	4.5	4.6	3.7	3.1	5.6	3.8	3.2	2.0	1.5	.9
Kansas City ⁸	4.5	6.3	4.0	3.3	7.7	3.6	3.2	2.1	3.4	.5
St. Louis ⁸	3.2	2.6	2.5	2.0	3.8	2.9	2.1	1.2	.8	1.0
MONTANA	4.4	4.8	4.0	4.3	4.7	5.5	2.7	3.6	.5	.6
NEBRASKA	5.3	5.0	4.7	4.2	6.2	4.6	4.5	3.3	.7	.5
NEVADA	8.1	6.7	7.1	6.3	8.7	8.5	5.4	4.7	.3	1.9
NEW HAMPSHIRE	5.2	5.0	3.9	3.7	4.8	4.7	3.3	3.5	.8	.4
NEW JERSEY:										
Camden ⁹	3.8	2.9	2.4	2.2	3.5	3.8	1.6	1.6	.5	1.0
Hackensack	5.4	5.7	3.5	3.6	4.5	4.2	2.3	2.3	1.1	.6
Jersey City	4.5	3.6	2.8	2.0	4.4	4.2	1.6	1.5	1.9	1.6
Newark	3.7	3.3	2.6	2.5	4.0	3.4	1.9	1.7	1.0	.8
New Brunswick—Perth Amboy—Sayreville	4.1	3.8	3.2	3.1	4.7	4.6	2.3	2.1	.9	1.0
Paterson—Clifton—Passaic	6.0	3.8	3.6	3.0	6.5	4.4	2.8	1.7	2.0	1.6
Trenton	4.2	3.2	2.8	2.6	3.0	3.3	1.4	1.6	.8	.6
NEW YORK	4.8	4.2	2.9	2.8	4.4	4.4	1.9	1.9	1.5	1.5
Albany—Schenectady—Troy	3.3	3.1	1.9	1.9	3.3	3.3	1.4	1.7	.9	.5
Binghamton	6.2	3.3	2.6	2.6	4.6	2.8	2.0	1.6	1.8	.5
Buffalo	3.0	3.5	1.6	2.0	3.8	3.7	1.2	1.2	1.5	1.7
Elmira	2.7	1.9	1.9	1.4	3.2	2.0	2.3	.9	.1	.8
Monroe County ¹⁰	1.7	1.6	1.4	1.4	2.4	2.7	1.4	1.6	.5	.5
Nassau—Suffolk ¹¹	6.0	5.3	4.4	4.4	5.4	5.6	3.1	3.5	1.2	1.1
New York and Nassau—Suffolk	5.8	4.8	3.3	3.2	4.8	5.0	1.9	2.0	1.9	2.0
New York SMSA ¹¹	5.8	4.7	3.1	2.9	4.7	4.9	1.6	1.6	2.1	2.2
New York City ¹²	6.1	4.9	3.2	3.0	4.9	5.3	1.6	1.6	2.3	2.5
Rochester	2.9	2.6	2.3	2.1	3.1	3.5	1.8	2.1	.6	.8
Syracuse	3.7	3.1	2.7	2.1	3.7	3.4	1.8	1.7	1.1	.8
Utica—Rome	4.1	3.6	2.5	2.3	4.1	3.8	1.9	1.7	1.5	1.4
Westchester County ¹²	3.4	3.4	2.5	2.5	3.5	2.8	1.7	1.5	.9	.7
NORTH CAROLINA	6.3	5.0	5.2	4.1	6.2	4.6	4.7	3.5	.3	.2
Charlotte—Gastonia	6.4	5.6	5.6	4.9	6.6	5.8	5.3	4.4	.2	.4
Greensboro—Winston-Salem—High Point	5.7	4.7	5.1	4.1	6.2	4.7	4.9	3.5	.2	.3
NORTH DAKOTA	6.2	9.5	4.3	5.9	6.6	6.7	4.5	4.9	1.4	1.0
Fargo—Moorhead	4.3	6.8	4.0	2.7	4.2	4.7	3.1	3.7	.8	.5
OHIO	3.9	2.9	2.5	2.0	3.7	4.0	1.6	1.9	1.1	1.1
Akron	1.9	1.6	1.2	1.0	1.8	1.9	.8	1.0	.5	.4
Canton	3.2	2.7	1.8	1.7	3.4	4.5	1.2	2.2	1.0	1.1
Cincinnati	5.2	2.1	2.1	1.7	5.6	2.8	1.8	1.5	3.1	.5
Cleveland	3.3	2.7	2.5	2.1	3.1	3.4	1.7	1.8	.5	.6
Columbus	2.4	3.3	1.9	2.5	3.2	3.1	1.3	1.6	1.2	.7
Dayton	3.1	2.3	2.6	2.0	2.8	2.7	1.8	1.7	.2	.3
Toledo	2.7	2.6	1.6	1.5	3.1	3.1	1.2	1.4	1.0	1.0
Youngstown—Warren	3.5	3.8	1.0	.9	3.4	5.4	.7	1.0	1.4	3.1
OKLAHOMA	8.1	6.8	7.2	6.1	8.0	6.5	6.2	4.7	.6	.7
Oklahoma City	8.2	7.6	7.4	6.8	6.8	6.5	5.1	4.9	.7	.7
Tulsa ¹³	5.2	6.3	4.7	5.9	5.3	6.1	4.0	4.3	.3	.6
OREGON¹	5.5	5.7	4.6	4.7	5.0	6.4	3.1	4.4	1.0	1.0
Portland ¹	5.5	5.7	4.5	4.6	4.6	5.4	2.8	3.6	.9	.9
PENNSYLVANIA	3.7	3.4	2.2	1.9	4.1	4.2	1.8	1.6	1.4	1.9
Allentown—Bethlehem—Easton	3.6	3.0	2.2	1.9	3.8	4.0	1.8	1.7	1.4	1.8
Altoona	5.1	2.8	2.0	1.6	4.3	3.4	2.2	1.9	1.4	1.0
Erie	4.3	3.2	2.6	2.6	4.0	3.5	2.0	1.4	1.0	1.2
Harrisburg	3.9	2.5	3.0	2.1	4.1	3.7	2.5	1.9	.9	1.3
Johnstown	3.1	3.9	1.8	1.6	8.8	10.0	1.5	1.7	6.0	7.7
Lancaster	3.9	2.8	2.7	2.4	4.4	3.3	3.2	2.4	.7	.4

See footnotes at end of table.

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		Total		Quits		Layoffs	
	Aug. 1977	Sept. 1977 ^p	Aug. 1977	Sept. 1977 ^p	Aug. 1977	Sept. 1977 ^p	Aug. 1977	Sept. 1977 ^p	Aug. 1977	Sept. 1977 ^p
PENNSYLVANIA—Continued										
Northeast Pennsylvania	5.1	3.6	2.1	1.9	5.3	3.9	1.8	1.4	3.0	1.8
Philadelphia SMSA	3.2	2.8	2.0	2.0	3.9	3.7	1.6	1.4	1.2	1.5
Pittsburgh	2.7	1.9	1.4	.9	3.7	3.3	1.2	1.2	1.5	1.2
Reading ¹⁴	4.6	3.8	3.0	2.8	4.8	3.9	2.6	1.8	1.4	1.3
Scranton	4.5	3.1	2.3	2.0	4.2	3.6	1.9	1.6	2.0	1.5
Wilkes-Barre—Hazleton ¹⁴	5.4	3.6	1.7	1.7	5.8	3.7	1.7	1.4	3.4	1.4
Williamsport	5.4	1.5	2.3	1.2	2.8	4.9	1.5	1.8	.9	2.5
York	5.4	5.7	3.5	3.6	4.3	3.6	2.8	2.3	.6	.5
RHODE ISLAND										
Providence—Warwick—Pawtucket	7.0	7.2	5.8	5.9	5.5	7.1	3.6	4.7	.8	1.3
.....	6.8	7.2	5.5	6.0	5.3	7.0	3.5	4.7	.8	1.2
SOUTH CAROLINA										
Charleston—North Charleston	4.9	4.3	4.3	3.5	5.8	4.4	4.0	2.9	.6	.5
Columbia	5.5	3.8	5.1	3.4	5.3	4.5	3.5	2.9	.1	.2
Greenville—Spartanburg	5.0	3.8	4.7	3.5	4.6	3.9	3.6	2.9	(²)	.1
.....	5.1	4.7	4.6	4.1	5.8	4.4	4.4	3.1	.3	.3
SOUTH DAKOTA										
Sioux Falls	5.8	5.6	4.9	4.2	6.8	4.9	4.8	3.1	1.2	.9
.....	6.0	5.9	4.3	2.8	6.7	4.8	3.8	2.4	2.0	2.3
TENNESSEE:										
Memphis	5.3	4.3	4.4	3.5	5.0	4.0	2.9	2.0	.7	.9
TEXAS:										
Dallas—Fort Worth	6.1	6.7	5.7	5.1	7.9	5.2	5.1	3.9	1.6	.3
Houston	5.3	4.7	4.9	4.4	5.1	4.5	3.6	3.4	.2	.1
San Antonio	5.7	5.5	5.2	5.0	5.9	5.5	4.6	3.9	.4	.7
UTAH ⁵										
Salt Lake City—Ogden ⁵	6.1	6.5	5.2	5.3	6.4	6.7	4.2	4.6	1.1	.9
.....	5.3	6.2	4.9	5.3	5.4	6.7	4.2	4.5	.3	1.0
VERMONT										
Burlington	5.0	4.5	3.8	3.1	4.8	4.7	2.3	2.0	1.8	2.0
Springfield	4.4	2.6	3.2	1.8	2.8	3.4	.8	1.2	1.8	1.6
.....	2.8	3.5	2.3	3.2	2.2	2.6	1.0	1.0	.3	.7
VIRGINIA										
Richmond	4.8	4.2	3.4	3.4	4.5	3.9	3.0	2.6	.4	.3
.....	2.6	2.1	1.9	1.8	2.1	2.1	1.3	1.2	.1	.1
WASHINGTON:										
Seattle—Everett ¹⁵	4.5	4.3	3.3	3.2	3.4	3.9	1.8	2.3	1.1	.9
WISCONSIN										
Milwaukee	4.3	3.5	3.1	2.6	4.5	4.0	2.9	2.1	.7	1.1
.....	3.3	3.1	2.3	2.2	3.7	3.2	2.2	1.6	.5	.6
WYOMING										
.....	7.4	9.2	6.7	5.8	11.1	7.5	8.4	5.7	.6	1.0

- ¹ Excludes canning and preserving.
- ² Less than 0.05.
- ³ Based on the 1967 Standard Industrial Classification Manual.
- ⁴ Excludes agricultural chemicals, and miscellaneous manufacturing.
- ⁵ Excludes canned fruits, vegetables, preserves, jams, and jellies.
- ⁶ Excludes canning and preserving, and sugar.
- ⁷ Excludes canning and preserving, and newspapers.
- ⁸ Based on the 1972 Standard Industrial Classification Manual; not strictly comparable with previously published data.
- ⁹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.
- ¹⁰ Subarea of Rochester Standard Metropolitan Statistical Area.
- ¹¹ Area included in New York and Nassau-Suffolk combined SMSA's.
- ¹² Subarea of New York Standard Metropolitan Statistical Area.
- ¹³ Excludes new-hire rate for transportation equipment.
- ¹⁴ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.
- ¹⁵ Excludes canning and preserving, printing and publishing.
- ^p preliminary.
- ^{*} Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

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		
	OCT. 1976	SEPT. 1977R	OCT. 1977P	OCT. 1976	SEPT. 1977R	OCT. 1977P	OCT. 1976	SEPT. 1977R	OCT. 1977P
ALABAMA	1,497.7	1,533.9	1,538.6	94.3	85.5	83.2	6.3	5.6	5.4
Birmingham	352.8	363.7	363.3	21.5	19.8	19.3	6.1	5.4	5.3
Huntsville	123.6	126.4	126.5	8.9	6.7	6.6	7.2	5.3	5.2
Mobile	167.2	172.4	171.7	10.2	10.7	10.2	6.1	6.2	6.0
Montgomery	103.4	107.5	107.7	5.3	4.9	4.6	5.1	4.5	4.2
Tuscaloosa	50.9	52.1	52.4	2.7	2.9	2.8	5.3	5.5	5.3
ALASKA	161.0	144.9	143.8	11.6	13.1	15.3	7.2	9.0	10.7
ARIZONA	948.1	959.5	967.1	80.7	66.6	63.6	8.5	6.9	6.6
Phoenix	551.9	561.4	567.0	47.2	33.9	33.4	8.6	6.0	5.9
Tucson	180.9	178.2	180.8	12.8	13.0	11.8	7.1	7.3	6.6
ARKANSAS	891.4	920.3	922.0	54.2	45.7	48.0	6.1	5.0	5.2
Fayetteville-Springdale	65.2	68.1	68.3	2.7	2.4	2.6	4.2	3.6	3.8
Fort Smith ¹	76.4	79.7	78.8	5.3	4.2	4.4	6.9	5.2	5.6
Little Rock-North Little Rock	168.6	173.9	174.9	8.3	6.4	6.6	4.9	3.7	3.8
Pine Bluff	34.0	34.0	34.2	2.3	1.6	1.4	6.8	4.6	4.2
CALIFORNIA	9,784.3	10,127.6	10,103.4	799.3	675.2	675.9	8.2	6.7	6.7
Anaheim-Santa Ana-Garden Grove	836.4	864.3	873.6	44.2	35.2	35.6	5.3	4.1	4.1
Bakersfield	150.8	157.5	159.2	10.7	9.8	10.5	7.1	6.2	6.6
Fresno	233.7	294.2	254.1	15.4	15.9	17.6	6.6	5.4	6.9
Los Angeles-Long Beach	3,286.0	3,331.4	3,347.1	262.4	224.8	215.8	8.0	6.7	6.4
Modesto	120.9	135.1	130.6	10.7	7.4	10.1	8.9	5.5	7.7
Oxnard-Simi Valley-Ventura	177.7	189.3	187.4	13.1	13.0	12.4	7.4	6.9	6.6
Riverside-San Bernardino-Ontario	481.3	492.8	500.7	43.3	40.5	39.1	9.0	8.2	7.6
Sacramento	395.4	426.6	425.6	31.0	24.7	26.0	7.8	5.8	6.1
Salinas-Seaside-Monterey	111.0	123.8	123.0	6.7	5.9	6.5	6.0	4.8	5.3
San Diego	660.3	667.5	672.9	74.2	61.1	59.9	11.2	9.2	8.9
San Francisco-Oakland	1,529.5	1,518.1	1,518.6	149.0	117.3	118.6	9.7	7.7	7.8
San Jose	571.0	590.8	587.7	37.7	28.5	30.8	6.6	4.8	5.2
Santa Barbara-Santa Maria-Lompoc	125.6	130.7	129.8	7.9	7.3	6.3	6.3	5.6	4.9
Santa Rosa	103.6	108.3	109.9	9.2	7.5	7.0	8.9	6.9	6.4
Stockton	147.3	162.8	157.4	12.3	8.6	10.5	8.4	5.3	6.7
Vallejo-Fairfield-Napa	108.9	115.9	115.5	7.2	6.8	6.5	6.6	5.9	5.6
COLORADO	1,239.5	1,250.4	1,257.2	63.6	65.4	66.3	5.1	5.2	5.3
Denver-Boulder	727.4	737.1	740.3	38.4	39.9	39.6	5.3	5.4	5.4
CONNECTICUT	1,468.2	1,466.7	1,459.8	123.9	87.9	81.9	8.4	6.0	5.6
Bridgeport	183.5	178.4	178.9	17.8	11.3	11.2	9.7	6.3	6.2
Hartford	346.5	348.8	348.6	25.9	19.3	18.3	7.5	5.5	5.2
New Britain	69.9	68.6	69.0	6.8	4.2	3.9	9.7	6.1	5.7
New Haven-West Haven	197.1	193.4	192.2	18.6	13.9	12.7	9.4	7.2	6.6
Stamford	107.2	108.3	108.1	6.9	4.6	4.4	6.5	4.5	4.0
Waterbury	105.2	104.4	102.9	9.9	7.5	6.5	9.4	7.2	6.3
DELAWARE	259.2	256.4	256.9	22.0	16.9	16.6	8.5	6.6	6.5
Wilmington ¹	228.7	224.9	226.1	20.0	14.6	14.3	8.8	6.5	6.3
DISTRICT OF COLUMBIA	332.3	334.3	335.0	28.4	25.6	25.0	8.5	7.7	7.5
Washington SMSA ¹	1,456.2	1,471.0	1,475.2	70.9	63.9	62.5	4.9	4.3	4.2
FLORIDA	3,443.8	3,445.5	3,475.6	286.5	231.9	228.8	8.3	6.7	6.6
Fort Lauderdale-Hollywood	336.1	339.8	340.4	33.8	26.1	25.1	10.1	7.7	7.4
Jacksonville	296.1	302.1	303.6	17.8	16.3	16.1	6.0	5.4	5.3
Miami	661.7	652.8	658.6	56.8	45.1	44.4	8.6	6.9	6.7
Orlando	271.9	271.5	273.0	22.8	18.6	18.1	8.4	6.9	6.6
Pensacola	108.3	112.6	112.8	6.0	4.9	5.2	5.5	4.3	4.6
Tampa-St. Petersburg	540.6	534.8	538.7	46.4	32.8	32.7	8.9	6.1	6.1
West Palm Beach-Boca Raton	191.4	187.4	191.5	18.7	14.8	14.5	9.8	7.9	7.6
GEORGIA	2,256.3	2,279.4	2,286.0	167.3	132.4	133.9	7.4	5.8	5.9
Atlanta	900.5	894.0	896.2	65.0	47.8	47.8	7.2	5.4	5.3
Augusta ¹	115.4	118.3	119.1	9.1	7.6	7.5	7.9	6.4	6.3
Columbus ¹	78.6	81.6	82.4	6.2	5.3	5.3	7.9	6.4	6.4
Macon	100.3	99.2	100.5	9.9	8.2	9.6	9.9	8.3	9.5
Savannah	82.1	84.1	84.0	6.3	5.8	5.7	7.7	7.0	6.8

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		
	OCT. 1976	SEPT. 1977R	OCT. 1977P	OCT. 1976	SEPT. 1977R	OCT. 1977P	OCT. 1976	SEPT. 1977R	OCT. 1977P
HAWAII	396.7	400.5	405.2	39.4	30.3	31.5	9.9	7.6	7.8
Honolulu	318.1	314.6	319.4	31.2	23.4	24.8	9.8	7.4	7.8
IDAHO	380.3	395.2	391.6	16.3	16.3	12.8	4.3	4.1	3.3
Boise City	71.5	77.6	77.1	2.3	2.1	1.7	3.2	2.6	2.2
ILLINOIS	5,100.0	5,182.1	5,201.5	292.6	234.1	226.4	5.7	4.5	4.4
Bloomington—Normal	59.4	59.3	60.5	1.8	1.6	1.4	3.1	2.7	2.3
Champaign—Urbana—Rantoul	78.8	73.4	75.9	2.6	2.3	2.3	3.3	3.2	3.0
Chicago	3,202.6	3,234.0	3,236.6	191.2	140.9	134.3	6.0	4.4	4.1
Davenport—Rock Island—Moline ¹	176.7	174.3	174.3	6.9	6.0	5.4	3.9	3.5	3.1
Decatur	60.6	58.4	58.7	4.0	3.0	2.9	6.5	5.2	4.9
Peoria	172.2	169.6	170.5	6.2	6.9	6.8	3.6	4.0	4.0
Rockford	134.5	129.1	129.7	7.7	7.6	7.7	5.7	5.9	5.9
Springfield	92.3	90.9	91.1	4.2	3.7	3.6	4.5	4.1	3.9
INDIANA	2,439.0	2,480.7	2,482.0	124.3	103.6	102.1	5.1	4.2	4.1
Evansville ¹	131.1	132.5	132.3	6.0	5.4	5.0	4.6	4.0	3.8
Fort Wayne	178.0	181.6	180.9	7.7	6.0	5.9	4.3	3.3	3.3
Gary—Hammond—East Chicago	277.3	282.3	282.3	16.3	12.9	13.0	5.9	4.6	4.6
Indianapolis	556.6	565.7	565.0	32.8	28.4	27.9	5.9	5.0	4.9
Muncie	55.2	55.8	57.0	2.5	2.4	2.4	4.5	4.3	4.1
South Bend	132.7	133.4	133.5	6.0	4.4	4.9	4.5	3.3	3.7
Terre Haute	75.9	77.6	78.0	3.5	2.7	2.7	4.6	3.5	3.4
IOWA	1,357.0	1,362.9	1,370.6	42.7	31.1	31.1	3.1	2.3	2.3
Cedar Rapids	78.5	79.1	79.6	2.4	1.9	1.6	3.1	2.4	2.1
Des Moines	163.3	165.2	165.8	6.0	4.1	4.0	3.7	2.5	2.4
Dubuque	41.5	42.1	42.1	1.9	1.4	1.3	4.6	3.4	3.2
Sioux City ¹	57.4	55.6	56.3	1.9	1.4	1.5	3.2	2.5	2.6
Waterloo—Cedar Falls	62.3	61.4	62.1	2.9	1.7	1.6	4.7	2.7	2.7
KANSAS	1,090.3	1,120.4	1,113.6	41.9	41.9	39.7	3.8	3.7	3.6
Topeka	85.0	87.1	86.9	3.8	3.4	3.3	4.5	3.9	3.8
Wichita	193.4	193.6	193.1	9.2	8.2	7.6	4.8	4.2	3.9
KENTUCKY	1,484.2	1,517.2	1,536.4	69.1	62.6	65.7	4.7	4.1	4.3
Lexington—Fayette	157.2	156.5	158.3	4.3	4.4	4.7	2.9	2.8	2.9
Louisville ¹	384.5	396.3	399.6	20.6	17.0	18.0	5.4	4.3	4.5
LOUISIANA	1,522.4	1,541.7	1,526.6	97.8	104.9	99.5	6.4	6.8	6.5
Baton Rouge	190.8	195.1	193.4	11.1	14.9	13.5	5.8	7.6	7.0
Lake Charles	61.2	60.8	60.3	4.4	4.8	4.5	7.1	7.9	7.4
Monroe	48.6	47.9	47.4	3.4	3.1	3.0	7.0	6.5	6.3
New Orleans	440.6	441.1	437.5	32.7	33.5	33.4	7.4	7.6	7.6
Shreveport	140.3	141.6	140.2	9.2	8.4	8.2	6.5	6.0	5.9
MAINE	474.2	504.0	489.2	35.7	34.0	35.1	7.5	6.7	7.2
Lewiston—Auburn	37.2	38.6	38.6	2.7	2.6	2.7	7.3	6.7	6.9
Portland	86.2	87.4	88.1	6.6	5.5	6.0	7.7	6.3	6.8
MARYLAND	1,910.1	1,913.0	1,932.4	115.0	93.8	101.5	6.0	4.9	5.3
Baltimore	966.9	962.7	980.1	70.3	59.0	66.2	7.3	6.1	6.8
MASSACHUSETTS	2,750.3	2,735.5	2,738.9	217.4	144.4	141.3	7.9	5.3	5.2
Boston	1,343.3	1,316.8	1,320.7	101.7	69.4	68.0	7.6	5.3	5.1
Brockton	76.2	75.9	77.5	7.1	4.7	4.7	9.3	6.2	6.0
Fall River ¹	74.1	75.6	74.2	6.1	4.0	4.0	8.2	5.3	5.4
Lawrence—Haverhill ¹	128.0	127.0	128.4	13.5	8.5	8.0	10.6	6.7	6.2
Lowell ¹	105.3	104.7	106.6	9.0	5.9	5.6	8.6	5.6	5.3
New Bedford	78.9	79.2	79.6	8.2	5.5	5.4	10.4	6.9	6.7
Springfield—Chicopee—Holyoke ¹	264.9	264.1	267.1	19.5	11.9	11.4	7.4	4.5	4.3
Worcester	191.4	190.0	192.6	13.6	8.0	8.0	7.1	4.2	4.1
MICHIGAN	4,040.4	4,090.6	4,104.9	330.8	235.5	225.4	8.2	5.8	5.5
Ann Arbor	130.9	131.5	135.0	9.0	6.2	6.1	6.9	4.7	4.5
Battle Creek	83.0	81.1	81.4	6.8	4.7	4.9	8.1	5.7	6.0
Bay City	51.5	52.5	53.3	4.1	3.0	3.0	8.0	5.7	5.6
Detroit	1,915.8	1,924.9	1,925.2	155.5	110.9	102.2	8.1	5.8	5.3
Flint	214.6	219.7	218.4	17.5	13.0	12.1	8.2	5.9	5.5

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			
	OCT. 1976	SEPT. 1977R	OCT. 1977P	OCT. 1976	SEPT. 1977R	OCT. 1977P	OCT. 1976	SEPT. 1977R	OCT. 1977P	
MICHIGAN—Continued										
Grand Rapids	270.4	282.2	286.5	19.0	12.4	12.1	7.0	4.4	4.2	
Jackson	66.6	65.2	65.2	6.3	3.6	3.4	9.5	5.6	5.2	
Kalamazoo—Portage	129.4	130.9	131.6	8.9	6.0	6.0	6.9	4.6	4.6	
Lansing—East Lansing	217.2	216.4	226.3	14.5	11.3	11.2	6.7	5.2	5.0	
Muskegon—Norton Shores—Muskegon Heights	77.1	76.3	75.8	6.5	4.7	4.9	8.5	6.1	6.5	
Saginaw	100.5	100.3	101.3	7.4	4.8	4.7	7.3	4.7	4.7	
MINNESOTA	1,889.1	1,896.3	1,894.3	90.4	74.9	70.8	4.8	3.9	3.7	
Duluth—Superior	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Minneapolis—St. Paul	1,015.4	1,024.6	1,033.0	58.1	48.4	46.6	5.7	4.7	4.5	
MISSISSIPPI	946.5	996.6	997.6	59.0	56.2	55.6	6.2	5.6	5.6	
Jackson	135.1	137.9	137.5	7.3	6.6	6.5	5.4	4.8	4.7	
MISSOURI	2,129.6	2,141.6	2,141.5	115.8	102.1	101.1	5.4	4.8	4.7	
Kansas City ¹	600.0	613.4	613.2	33.3	31.9	29.9	5.6	5.2	4.9	
St. Joseph	46.1	45.9	45.5	2.8	2.5	2.5	6.0	5.4	5.6	
St. Louis ¹	1,033.4	1,035.2	1,032.8	67.7	58.8	56.7	6.6	5.7	5.5	
Springfield	94.1	98.0	99.1	4.1	3.4	3.9	4.4	3.5	3.9	
MONTANA	329.4	N.A.	N.A.	15.5	N.A.	N.A.	4.7	N.A.	N.A.	
Billings	51.0	N.A.	N.A.	1.8	N.A.	N.A.	3.5	N.A.	N.A.	
Great Falls	33.7	N.A.	N.A.	1.7	N.A.	N.A.	4.9	N.A.	N.A.	
NEBRASKA	737.0	744.1	745.9	18.3	15.9	17.6	2.5	2.1	2.4	
Lincoln	99.4	106.2	105.1	2.3	1.8	2.0	2.3	1.7	1.9	
Omaha ¹	255.2	261.5	263.8	10.8	9.0	10.4	4.2	3.5	3.9	
NEVADA	310.5	329.6	330.8	24.9	19.7	20.5	8.0	6.0	6.2	
Las Vegas	169.3	178.1	178.6	15.6	12.7	13.1	9.2	7.1	7.3	
Reno	86.6	92.0	92.4	4.5	3.6	4.0	5.1	3.9	4.3	
NEW HAMPSHIRE	391.8	416.4	418.6	19.6	17.7	18.6	5.0	4.2	4.4	
Manchester	64.3	73.1	73.7	3.6	3.2	3.2	5.0	4.4	4.4	
NEW JERSEY	3,307.0	3,309.7	3,310.6	318.0	254.2	254.6	9.6	7.7	7.7	
Atlantic City	77.2	81.5	78.4	8.8	7.3	8.1	11.4	8.9	10.3	
Jersey City	255.2	242.6	245.8	32.6	26.1	26.7	12.8	10.7	10.9	
Long Branch—Asbury Park	206.0	210.4	208.4	18.3	15.5	15.1	8.9	7.4	7.3	
Newark	916.7	916.5	923.3	85.0	69.2	67.5	9.3	7.6	7.3	
New Brunswick—Perth Amboy—Sayreville	287.2	288.9	287.7	27.2	20.7	19.5	9.5	7.2	6.8	
Paterson—Clifton—Passaic	205.5	199.4	203.6	24.5	18.6	18.7	11.9	9.3	9.2	
Trenton	149.0	151.0	151.8	11.1	8.9	8.9	7.5	5.9	5.9	
Vineland—Millville—Bridgeton	56.4	55.5	55.4	6.6	5.2	5.8	11.7	9.3	10.5	
NEW MEXICO	477.9	494.1	497.8	43.0	35.4	35.8	9.0	7.2	7.2	
Albuquerque	175.8	181.9	183.7	17.5	13.6	13.7	10.0	7.5	7.4	
NEW YORK	7,698.9	7,598.6	7,584.9	734.9	590.7	571.9	9.5	7.8	7.5	
Albany—Schenectady—Troy	357.5	353.8	354.7	27.9	22.7	22.0	7.9	6.4	6.2	
Binghamton ¹	132.2	134.4	134.4	9.7	8.7	8.6	7.3	6.4	6.4	
Buffalo	565.2	559.7	560.5	51.6	39.9	39.4	9.1	7.1	7.0	
Elmira	41.3	41.2	40.5	3.7	3.6	3.4	8.8	8.7	8.3	
Nassau—Suffolk	1,123.9	1,109.3	1,112.1	106.3	77.6	74.1	7.5	7.0	6.7	
New York	3,621.5	3,525.9	3,521.3	368.7	300.5	286.4	10.2	8.5	8.1	
Poughkeepsie	98.1	99.3	99.6	6.2	5.2	5.1	6.3	5.3	5.2	
Rochester	455.8	450.2	453.6	33.1	27.7	28.0	7.3	6.2	6.2	
Syracuse	289.8	290.7	292.5	26.1	20.6	20.4	9.0	7.1	7.0	
Utica—Rome	140.3	138.3	137.7	14.1	11.0	10.6	10.1	8.0	7.7	
NORTH CAROLINA	2,573.1	2,615.6	2,599.1	151.9	119.8	116.7	5.9	4.6	4.5	
Asheville	77.8	80.9	80.4	3.7	3.0	3.3	4.3	3.7	4.1	
Charlotte—Gastonia	310.8	314.3	313.9	15.7	12.2	11.3	5.1	3.9	3.6	
Greensboro—Winston-Salem—High Point	395.9	402.3	401.9	19.6	16.4	16.0	5.0	4.1	4.0	
Raleigh—Durham	251.1	260.2	259.4	9.3	8.4	8.5	3.7	3.2	3.3	
NORTH DAKOTA	280.9	301.9	290.2	8.0	7.4	7.5	2.8	2.4	2.6	
Fargo—Moorhead ¹	67.1	66.3	68.0	1.5	1.5	1.4	2.2	2.2	2.1	

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		
	OCT. 1976	SEPT. 1977R	OCT. 1977P	OCT. 1976	SEPT. 1977R	OCT. 1977P	OCT. 1976	SEPT. 1977R	OCT. 1977P
OHIO	4,739.7	4,804.3	4,816.4	322.7	274.0	273.8	6.8	5.7	5.7
Akron	291.5	289.9	292.4	20.8	16.2	16.1	7.1	5.6	5.5
Canton	175.7	177.1	175.9	13.5	10.5	10.0	7.7	5.9	5.7
Cincinnati ¹	584.4	593.2	592.6	43.5	40.2	39.5	7.4	6.8	6.7
Cleveland	889.3	896.7	897.6	53.5	45.8	45.9	6.0	5.1	5.1
Columbus	508.4	513.4	518.2	30.1	25.6	25.3	5.9	5.0	4.9
Dayton	362.3	369.7	370.1	20.2	17.7	17.1	5.6	4.8	4.6
Toledo ¹	353.1	359.7	361.8	24.9	22.0	21.3	7.1	6.1	5.9
Youngstown-Warren	234.0	235.7	237.3	20.9	16.3	18.3	8.9	6.9	7.7
OKLAHOMA	1,170.4	1,215.4	1,219.0	58.5	51.9	48.7	5.0	4.3	4.0
Oklahoma City	346.2	371.4	373.1	17.7	13.9	13.4	5.1	3.7	3.6
Tulsa	282.7	290.5	290.5	13.8	13.0	11.8	4.9	4.5	4.1
OREGON	1,082.4	1,113.4	1,106.4	85.0	80.1	77.8	7.9	7.2	7.0
Eugene-Springfield	111.5	118.4	118.8	10.0	10.0	9.7	9.0	8.5	8.2
Portland ¹	522.1	528.6	532.1	39.7	34.8	34.0	7.6	6.6	6.4
Salem	101.0	104.9	101.8	6.8	6.3	5.9	6.8	6.0	5.8
PENNSYLVANIA	5,101.5	5,073.1	5,067.6	360.6	291.5	284.3	7.1	5.7	5.6
Allentown-Bethlehem-Easton ¹	299.5	296.6	297.8	18.1	14.7	14.7	6.1	5.0	4.9
Altoona	56.0	57.5	57.5	3.4	2.8	2.7	6.1	4.8	4.7
Erie	121.4	122.4	121.6	8.6	5.8	5.9	7.1	4.8	4.9
Harrisburg	206.7	209.2	208.7	9.1	8.3	7.9	4.4	4.0	3.8
Johnstown	106.2	106.6	106.0	6.9	6.9	7.8	6.5	8.8	7.3
Lancaster	161.6	164.0	165.1	6.3	5.0	5.0	3.9	3.1	3.0
Northeast Pennsylvania	274.8	271.7	270.2	22.7	18.1	16.9	8.3	6.7	6.3
Philadelphia ¹	2,028.0	1,999.0	1,996.3	168.4	137.0	132.8	8.3	6.9	6.7
Pittsburgh	990.6	981.8	981.7	75.6	60.0	60.2	7.6	6.1	6.1
Reading	145.0	145.2	145.8	7.6	6.1	5.9	5.2	4.2	4.0
Williamsport	49.7	49.9	50.3	3.9	2.9	2.9	7.9	5.8	5.8
York	158.5	159.6	160.7	8.0	6.3	6.2	5.0	4.0	3.8
RHODE ISLAND	432.5	435.0	432.1	29.2	25.3	21.9	6.8	5.8	5.1
Providence-Warwick-Pawtucket ¹	437.6	440.2	438.6	29.6	25.7	22.3	6.8	5.8	5.1
SOUTH CAROLINA	1,267.1	1,295.5	1,291.5	78.3	64.1	66.2	6.2	4.9	5.1
Charleston-North Charleston	139.9	145.1	144.5	9.5	8.3	8.3	6.8	5.7	5.8
Columbia	159.0	166.8	167.7	8.2	6.5	6.5	5.2	3.9	3.9
Greenville-Spartanburg	247.4	249.7	250.4	13.3	11.5	12.7	5.4	4.6	5.1
SOUTH DAKOTA	307.9	333.7	324.1	9.9	6.6	6.2	3.2	2.0	1.9
Sioux Falls	56.5	57.5	57.2	1.6	1.0	1.0	2.8	1.7	1.7
TENNESSEE	1,834.8	1,914.2	1,934.1	96.4	83.4	83.5	5.3	4.4	4.3
Chattanooga ¹	175.8	181.6	182.5	9.2	8.8	8.8	5.2	4.8	4.8
Knoxville	191.6	199.2	199.9	9.1	7.0	6.8	4.8	3.5	3.4
Memphis ¹	359.1	371.3	372.8	19.7	18.9	17.9	5.5	5.1	4.8
Nashville-Davidson	368.0	379.6	383.0	14.8	12.5	12.2	4.0	3.3	3.2
TEXAS	5,578.2	5,721.9	5,741.1	300.7	285.6	260.8	5.4	5.0	4.9
Amarillo	83.4	85.7	85.3	3.0	3.3	2.9	3.6	3.9	3.4
Austin	194.8	201.5	203.4	9.2	9.6	9.4	4.7	4.8	4.6
Beaumont-Port Arthur-Orange	163.6	161.2	162.6	11.8	11.0	12.0	7.2	6.8	7.4
Corpus Christi	127.0	129.5	130.1	7.7	8.3	8.5	6.1	6.4	6.6
Dallas-Fort Worth	1,268.6	1,299.6	1,302.9	55.3	44.3	42.8	4.4	3.4	3.3
El Paso	161.9	161.3	160.4	19.4	19.2	18.5	12.0	11.9	11.5
Galveston-Texas City	85.7	92.5	93.4	5.4	5.9	6.6	6.3	6.4	7.1
Houston	1,158.4	1,237.4	1,250.5	59.4	56.3	56.1	5.1	4.6	4.5
Lubbock	96.3	101.4	102.1	2.9	3.0	3.0	3.0	3.0	3.0
San Antonio	386.4	391.6	390.5	28.6	29.2	26.8	7.4	7.4	6.9
Waco	74.5	75.9	76.4	3.4	3.5	3.5	4.6	4.7	4.6
Wichita Falls	57.3	58.6	58.6	2.5	2.0	1.9	4.4	3.4	3.3
UTAH	519.5	532.9	536.1	25.0	22.4	23.1	4.8	4.2	4.3
Salt Lake City-Ogden	343.7	352.0	357.0	17.1	15.2	15.8	5.0	4.3	4.4
VERMONT	217.6	223.6	222.5	16.1	13.6	14.0	7.4	6.1	6.3

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		
	OCT. 1976	SEPT. 1977R	OCT. 1977P	OCT. 1976	SEPT. 1977R	OCT. 1977P	OCT. 1976	SEPT. 1977R	OCT. 1977P
VIRGINIA	2,318.9	2,404.7	2,393.3	121.0	120.0	112.4	5.2	5.0	4.7
Lynchburg	68.8	71.7	71.2	3.1	3.3	2.9	4.5	4.6	4.1
Newport News—Hampton	155.8	163.4	162.1	10.1	9.3	9.6	6.5	5.7	5.9
Norfolk—Virginia Beach—Portsmouth ¹	304.3	319.1	317.0	19.4	19.2	19.0	6.4	6.0	6.0
Richmond	305.6	320.6	320.9	13.3	12.9	12.4	4.4	4.0	3.9
Roanoke	109.0	112.7	111.7	6.0	5.7	4.9	5.5	5.1	4.4
WASHINGTON	1,615.2	1,678.6	1,681.8	116.6	98.2	93.3	7.2	5.9	5.5
Seattle—Everett	707.6	744.0	742.0	57.4	45.6	43.5	8.1	6.1	5.9
Spokane	129.7	131.5	135.0	8.2	6.6	6.9	6.3	5.0	5.1
Tacoma	153.3	159.4	156.8	12.9	10.1	9.5	8.4	6.3	6.0
WEST VIRGINIA	684.1	699.9	697.1	43.6	41.0	39.2	6.4	5.9	5.6
Charleston	109.9	108.0	108.9	5.3	4.2	4.1	4.9	3.9	3.8
Huntington—Ashland ¹	112.1	111.0	110.8	6.9	6.2	5.9	6.1	5.6	5.3
Parkersburg—Marietta ¹	63.2	62.8	62.9	3.9	3.1	3.0	6.2	4.9	4.7
Wheeling ¹	77.6	76.8	78.3	5.0	3.6	4.6	6.5	4.7	5.9
WISCONSIN	2,201.4	2,266.9	2,254.0	96.9	90.3	87.0	4.4	4.0	3.9
Appleton—Oshkosh	142.6	144.9	143.6	5.6	4.7	4.7	4.0	3.2	3.3
Green Bay	86.7	89.5	89.2	4.0	3.1	3.1	4.6	3.5	3.5
Kenosha	64.1	62.6	63.2	3.1	4.0	2.9	4.8	6.5	4.5
La Crosse	43.3	45.0	45.3	1.9	1.5	1.7	4.4	3.3	3.7
Madison	175.1	180.8	181.5	5.6	4.7	4.5	3.2	2.6	2.5
Milwaukee	691.0	691.7	693.4	36.8	34.2	32.2	5.3	4.9	4.6
Racine	88.3	91.9	91.2	4.3	4.1	3.6	4.8	4.5	4.0
WYOMING	182.7	202.5	197.3	6.0	5.8	6.1	3.3	2.9	3.1

¹ Includes interstate portion of Area located in adjacent State(s).

NOTE: All data are subject to revision as new benchmark information becomes available. Estimates have been benchmarked to 1976 Current Population Survey annual averages. Data refer to place of residence.

p=preliminary.
r=revised.
N.A.=not available.

SOURCE: Cooperating State Employment Security Agencies listed on inside back cover.

Labor force and unemployment estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the National Technical Information Service. When ordering please, specify "CETA Area Employment and Unemployment, January-September 1977 (NTISUB/C/143-77/011)," "State and County Employment and Unemployment January-September 1977" (NTISUB/C/144-77/011) or "Unemployment Rates for States and Local Governments, Second Quarter, 1977 (PB271672). A complete set of price schedules and publications is available from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield Virginia, 22161.

Revised

Seasonally Adjusted

Establishment Data

ESTABLISHMENT DATA

A. EMPLOYERS ON NONAGRICULTURAL PAYROLLS, BY INDUSTRY, SEASONALLY ADJUSTED, 1972 TO DATE
(IN THOUSANDS)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
TOTAL												
1972	72,366	72,543	72,923	73,133	73,432	73,681	73,723	74,012	74,191	74,549	74,822	75,109
1973	75,464	75,910	76,217	76,402	76,622	76,954	76,987	77,195	77,303	77,622	77,944	78,042
1974	78,043	78,219	78,251	78,372	78,512	78,627	78,663	78,731	78,785	78,751	78,361	77,708
1975	77,280	76,832	76,507	76,441	76,524	76,460	76,720	77,064	77,384	77,626	77,749	78,032
1976	78,413	78,650	78,929	79,228	79,263	79,402	79,520	79,606	79,895	79,835	80,127	80,370
1977	80,574	80,870	81,331	81,620	81,837	82,157	82,407	82,474	-	-	-	-
TOTAL PRIVATE												
1972	59,228	59,372	59,719	59,894	60,140	60,399	60,379	60,605	60,737	61,077	61,316	61,551
1973	61,899	62,323	62,600	62,747	62,923	63,201	63,263	63,417	63,524	63,782	64,040	64,104
1974	64,081	64,214	64,221	64,299	64,419	64,509	64,506	64,528	64,469	64,403	63,966	63,298
1975	62,787	62,224	61,876	61,769	61,817	61,754	61,953	62,275	62,618	62,809	62,930	63,184
1976	63,558	63,779	64,020	64,314	64,350	64,460	64,572	64,629	64,918	64,838	65,094	65,336
1977	65,552	65,854	66,300	66,571	66,730	66,961	67,184	67,235	-	-	-	-
GOODS-PRODUCING												
1972	23,116	23,145	23,276	23,376	23,483	23,569	23,487	23,590	23,656	23,864	23,960	24,013
1973	24,211	24,446	24,537	24,590	24,652	24,784	24,788	24,810	24,807	24,930	25,034	25,106
1974	25,031	25,047	24,976	24,960	24,926	24,910	24,834	24,761	24,657	24,542	24,178	23,635
1975	23,232	22,728	22,447	22,348	22,358	22,273	22,293	22,478	22,665	22,759	22,789	22,908
1976	23,069	23,143	23,244	23,371	23,353	23,357	23,351	23,293	23,434	23,356	23,484	23,528
1977	23,585	23,763	24,017	24,176	24,264	24,355	24,412	24,305	-	-	-	-
MINING												
1972	625	623	627	622	623	624	621	624	628	628	627	627
1973	629	633	631	633	635	640	645	650	650	654	661	666
1974	673	679	680	688	692	694	699	702	707	714	718	684
1975	725	729	731	734	741	743	745	750	752	759	762	767
1976	767	767	772	775	776	782	790	753	798	800	805	809
1977	817	824	841	847	845	856	833	818	-	-	-	-
CONTRACT CONSTRUCTION												
1972	3,825	3,754	3,791	3,810	3,840	3,860	3,821	3,867	3,869	3,890	3,858	3,769
1973	3,877	3,944	3,966	3,964	3,991	4,039	4,067	4,051	4,067	4,049	4,052	4,071
1974	4,046	4,126	4,098	4,053	4,033	3,989	3,921	3,942	3,899	3,872	3,815	3,759
1975	3,724	3,605	3,479	3,448	3,442	3,412	3,434	3,474	3,517	3,523	3,548	3,571
1976	3,595	3,579	3,575	3,613	3,602	3,602	3,605	3,582	3,572	3,586	3,609	3,605
1977	3,549	3,661	3,759	3,830	3,853	3,888	3,913	3,893	-	-	-	-
MANUFACTURING												
1972	18,666	18,768	18,858	18,944	19,020	19,085	19,045	19,099	19,159	19,346	19,475	19,617
1973	19,705	19,869	19,940	19,993	20,026	20,105	20,076	20,109	20,090	20,227	20,321	20,369
1974	20,312	20,242	20,198	20,219	20,201	20,227	20,214	20,117	20,051	19,956	19,645	19,192
1975	18,783	18,394	18,237	18,166	18,175	18,118	18,114	18,254	18,396	18,477	18,479	18,570
1976	18,707	18,797	18,897	18,983	18,975	18,973	18,956	18,958	19,064	18,970	19,070	19,114
1977	19,219	19,278	19,417	19,499	19,566	19,611	19,666	19,594	-	-	-	-
DURABLE GOODS												
1972	10,667	10,750	10,814	10,874	10,939	10,975	10,980	11,020	11,062	11,228	11,321	11,436
1973	11,514	11,649	11,703	11,744	11,796	11,851	11,870	11,898	11,896	11,998	12,057	12,096
1974	12,039	11,981	11,957	12,002	11,980	12,018	12,034	11,947	11,908	11,871	11,662	11,355
1975	11,088	10,828	10,735	10,642	10,597	10,533	10,491	10,563	10,649	10,664	10,652	10,713
1976	10,809	10,870	10,950	11,004	11,052	11,053	11,046	11,069	11,119	11,046	11,126	11,165
1977	11,236	11,261	11,373	11,404	11,451	11,484	11,548	11,527	-	-	-	-
ORDNANCE AND ACCESSORIES												
1972	179	179	178	180	181	183	184	185	181	183	190	190
1973	189	190	188	186	184	183	182	181	179	178	175	177
1974	178	176	176	176	173	175	177	177	179	178	178	177
1975	176	177	176	175	175	173	172	166	166	165	162	163
1976	162	161	161	160	159	158	157	157	156	156	157	156
1977	156	156	156	156	156	157	156	156	-	-	-	-
LUMBER AND WOOD PRODUCTS												
1972	610	608	612	616	620	623	625	627	627	629	636	635
1973	636	638	642	639	642	643	642	645	644	645	647	651
1974	649	649	652	652	648	640	635	626	618	600	580	568
1975	550	537	540	536	546	553	557	563	568	576	577	579
1976	591	595	596	596	601	602	605	606	613	614	621	625
1977	625	627	633	635	638	638	640	642	-	-	-	-
FURNITURE AND FIXTURES												
1972	484	489	492	496	498	500	507	507	509	515	519	524
1973	527	531	535	536	537	541	537	537	532	537	538	537
1974	536	531	529	529	529	527	522	520	514	505	486	474
1975	455	440	434	436	439	439	444	452	459	465	470	474
1976	478	484	487	492	495	493	492	486	490	491	492	494
1977	495	498	503	506	508	510	515	508	-	-	-	-
STONE, CLAY, AND GLASS PRODUCTS												
1972	647	647	650	653	657	660	660	661	663	668	671	671
1973	675	682	685	687	689	692	695	693	693	698	701	708
1974	709	707	706	701	700	694	695	693	684	676	665	653
1975	637	622	612	610	609	606	604	609	613	613	614	615
1976	619	616	618	625	626	628	629	628	629	630	636	630
1977	633	622	643	650	653	659	659	656	-	-	-	-

ESTABLISHMENT DATA

A. EMPLOYERS ON NONAGRICULTURAL PAYROLLS, BY INDUSTRY, SEASONALLY ADJUSTED, 1972 TO DATE—CONTINUED
(IN THOUSANDS)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
PRIMARY METAL INDUSTRIES												
1972	1,195	1,199	1,223	1,229	1,235	1,234	1,228	1,246	1,263	1,272	1,278	1,285
1973	1,287	1,298	1,297	1,303	1,313	1,321	1,321	1,332	1,342	1,353	1,360	1,359
1974	1,354	1,350	1,344	1,344	1,342	1,349	1,343	1,345	1,351	1,352	1,342	1,306
1975	1,283	1,247	1,221	1,194	1,171	1,151	1,133	1,144	1,165	1,147	1,147	1,155
1976	1,161	1,167	1,179	1,187	1,192	1,200	1,202	1,210	1,215	1,194	1,189	1,185
1977	1,185	1,180	1,200	1,208	1,215	1,218	1,204	1,202	-	-	-	-
FABRICATED METAL PRODUCTS												
1972	1,352	1,364	1,373	1,380	1,389	1,395	1,395	1,402	1,404	1,418	1,432	1,446
1973	1,458	1,478	1,484	1,492	1,500	1,503	1,505	1,504	1,499	1,514	1,528	1,535
1974	1,530	1,523	1,519	1,517	1,517	1,523	1,530	1,516	1,500	1,492	1,472	1,426
1975	1,374	1,357	1,334	1,330	1,324	1,317	1,299	1,328	1,335	1,344	1,343	1,345
1976	1,358	1,370	1,380	1,387	1,391	1,390	1,388	1,393	1,398	1,390	1,397	1,405
1977	1,415	1,420	1,432	1,433	1,444	1,452	1,459	1,460	-	-	-	-
MACHINERY, ETC. ELECTRICAL												
1972	1,815	1,836	1,838	1,851	1,874	1,884	1,893	1,900	1,915	1,941	1,953	1,982
1973	1,999	2,019	2,038	2,058	2,073	2,094	2,101	2,118	2,125	2,142	2,162	2,176
1974	2,185	2,187	2,200	2,206	2,206	2,228	2,224	2,236	2,237	2,257	2,237	2,210
1975	2,178	2,150	2,126	2,100	2,068	2,041	2,023	2,019	2,031	2,041	2,024	2,024
1976	2,033	2,037	2,047	2,056	2,068	2,071	2,084	2,086	2,110	2,089	2,102	2,107
1977	2,122	2,134	2,142	2,150	2,165	2,170	2,202	2,210	-	-	-	-
ELECTRICAL EQUIPMENT AND SUPPLIES												
1972	1,788	1,800	1,813	1,819	1,829	1,840	1,842	1,850	1,861	1,891	1,904	1,927
1973	1,944	1,966	1,983	1,995	2,006	2,025	2,038	2,034	2,031	2,060	2,073	2,083
1974	2,081	2,077	2,070	2,067	2,060	2,061	2,076	2,015	2,017	2,005	1,951	1,888
1975	1,849	1,787	1,771	1,746	1,735	1,724	1,724	1,744	1,750	1,762	1,763	1,773
1976	1,782	1,797	1,816	1,828	1,833	1,835	1,832	1,841	1,843	1,850	1,858	1,863
1977	1,874	1,890	1,906	1,915	1,925	1,931	1,959	1,951	-	-	-	-
TRANSPORTATION EQUIPMENT												
1972	1,730	1,755	1,759	1,768	1,771	1,763	1,755	1,743	1,739	1,803	1,821	1,850
1973	1,874	1,911	1,910	1,910	1,908	1,905	1,902	1,903	1,902	1,913	1,909	1,900
1974	1,846	1,808	1,786	1,833	1,828	1,840	1,854	1,844	1,841	1,845	1,806	1,723
1975	1,671	1,611	1,633	1,631	1,649	1,650	1,650	1,649	1,668	1,651	1,650	1,678
1976	1,710	1,722	1,737	1,739	1,745	1,737	1,725	1,732	1,735	1,703	1,746	1,765
1977	1,787	1,786	1,808	1,802	1,797	1,802	1,813	1,802	-	-	-	-
INSTRUMENTS AND RELATED PRODUCTS												
1972	444	446	447	451	455	459	460	464	465	469	473	477
1973	481	486	490	486	494	495	497	502	502	505	510	512
1974	513	517	518	521	520	525	525	525	523	521	515	511
1975	505	496	490	487	482	481	483	482	486	490	492	494
1976	497	500	504	509	513	512	512	511	512	512	514	517
1977	521	523	526	525	528	527	527	526	-	-	-	-
MISCELLANEOUS MANUFACTURING INDUSTRIES												
1972	423	427	429	431	430	434	431	435	435	439	444	449
1973	444	450	451	452	450	449	450	449	447	453	454	458
1974	458	456	457	456	457	456	453	450	444	440	430	419
1975	410	404	398	397	399	398	402	406	408	410	410	413
1976	418	421	425	425	429	427	420	419	418	417	414	418
1977	423	425	424	424	422	420	414	414	-	-	-	-
NONDURABLE GOODS												
1972	7,999	8,018	8,044	8,070	8,081	8,110	8,065	8,079	8,097	8,118	8,154	8,181
1973	8,191	8,220	8,237	8,249	8,230	8,254	8,206	8,211	8,194	8,229	8,264	8,273
1974	8,273	8,261	8,241	8,217	8,221	8,209	8,180	8,170	8,143	8,085	7,983	7,837
1975	7,695	7,566	7,502	7,524	7,578	7,585	7,623	7,691	7,747	7,813	7,827	7,857
1976	7,898	7,927	7,947	7,979	7,923	7,920	7,910	7,889	7,945	7,924	7,944	7,949
1977	7,983	8,017	8,044	8,095	8,115	8,127	8,118	8,067	-	-	-	-
FOOD AND KINDRED PRODUCTS												
1972	1,746	1,738	1,743	1,745	1,740	1,763	1,747	1,731	1,732	1,731	1,727	1,727
1973	1,729	1,731	1,727	1,727	1,717	1,719	1,710	1,691	1,696	1,717	1,731	1,736
1974	1,734	1,733	1,738	1,725	1,725	1,711	1,696	1,703	1,703	1,704	1,695	1,687
1975	1,666	1,658	1,661	1,662	1,670	1,671	1,672	1,686	1,689	1,695	1,690	1,692
1976	1,698	1,706	1,697	1,705	1,710	1,716	1,720	1,715	1,711	1,710	1,713	1,711
1977	1,723	1,727	1,732	1,741	1,733	1,736	1,728	1,710	-	-	-	-
TOBACCO MANUFACTURES												
1972	75	75	77	77	77	77	77	74	73	71	73	76
1973	75	77	79	80	80	80	79	79	79	79	81	81
1974	81	81	81	81	80	80	79	79	79	79	76	78
1975	80	79	77	76	76	76	79	78	79	79	80	79
1976	79	77	75	76	76	76	80	78	76	75	75	75
1977	73	73	69	74	72	72	72	68	-	-	-	-
TEXTILE MILL PRODUCTS												
1972	973	976	984	986	992	994	995	996	997	1,005	1,012	1,019
1973	1,019	1,027	1,031	1,028	1,028	1,029	1,026	1,025	1,023	1,024	1,028	1,027
1974	1,026	1,019	1,012	1,009	1,005	1,005	997	993	985	961	940	907
1975	871	850	846	865	867	894	901	917	932	948	952	955
1976	959	965	966	972	974	972	970	967	967	961	962	961
1977	960	967	974	979	986	986	992	982	-	-	-	-

ESTABLISHMENT DATA

A. EMPLOYEES ON NONAGRICULTURAL PAYROLLS, BY INDUSTRY, SEASONALLY ADJUSTED, 1972 TO DATE--CONTINUED (IN THOUSANDS)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
APPAREL AND OTHER TEXTILE PRODUCTS												
1972	1,359	1,366	1,367	1,374	1,367	1,369	1,346	1,377	1,382	1,387	1,399	1,401
1973	1,401	1,411	1,415	1,421	1,414	1,415	1,378	1,405	1,402	1,404	1,403	1,395
1974	1,396	1,386	1,371	1,369	1,372	1,362	1,356	1,348	1,341	1,325	1,300	1,247
1975	1,217	1,191	1,178	1,193	1,208	1,216	1,232	1,246	1,263	1,285	1,291	1,300
1976	1,312	1,310	1,319	1,319	1,316	1,315	1,298	1,291	1,282	1,275	1,278	1,273
1977	1,279	1,282	1,284	1,290	1,292	1,301	1,292	1,286	-	-	-	-
PAPER AND ALLIED PRODUCTS												
1972	680	680	682	687	692	691	692	691	691	691	694	696
1973	696	698	700	700	702	703	700	703	700	703	706	706
1974	710	710	710	709	708	708	708	704	702	694	685	674
1975	662	647	636	630	630	628	634	639	645	652	652	659
1976	664	667	672	675	678	679	680	678	679	678	680	682
1977	685	687	689	695	701	703	705	704	-	-	-	-
PRINTING AND PUBLISHING												
1972	1,073	1,075	1,079	1,081	1,084	1,085	1,082	1,084	1,087	1,090	1,094	1,095
1973	1,099	1,098	1,101	1,104	1,102	1,107	1,108	1,108	1,103	1,104	1,108	1,111
1974	1,110	1,115	1,112	1,111	1,113	1,116	1,116	1,116	1,115	1,114	1,107	1,104
1975	1,102	1,094	1,088	1,083	1,079	1,075	1,071	1,073	1,072	1,071	1,072	1,073
1976	1,070	1,070	1,075	1,076	1,078	1,078	1,081	1,081	1,085	1,087	1,089	1,089
1977	1,092	1,096	1,099	1,103	1,108	1,113	1,114	1,114	-	-	-	-
CHEMICALS AND ALLIED PRODUCTS												
1972	1,001	1,002	1,002	1,004	1,008	1,007	1,004	1,005	1,010	1,012	1,016	1,021
1973	1,022	1,022	1,025	1,026	1,030	1,034	1,038	1,035	1,035	1,040	1,040	1,045
1974	1,047	1,049	1,052	1,052	1,055	1,061	1,063	1,065	1,066	1,065	1,057	1,045
1975	1,034	1,023	1,010	1,004	1,006	1,002	1,002	1,008	1,010	1,016	1,017	1,018
1976	1,025	1,029	1,031	1,034	1,033	1,030	1,037	1,039	1,035	1,033	1,038	1,042
1977	1,045	1,049	1,052	1,057	1,062	1,061	1,064	1,061	-	-	-	-
PETROLEUM AND COAL PRODUCTS												
1972	191	196	195	196	194	194	194	194	194	194	195	195
1973	194	191	192	190	188	193	194	195	196	196	196	198
1974	197	198	197	198	200	200	199	198	198	199	200	199
1975	194	191	194	193	196	197	199	199	201	201	202	202
1976	203	204	204	204	203	202	202	202	202	202	203	204
1977	205	205	207	209	210	210	210	210	-	-	-	-
RUBBER AND PLASTICS PRODUCTS, NEC												
1972	599	606	612	617	623	626	625	624	629	636	646	654
1973	661	671	674	680	677	682	684	681	672	673	683	687
1974	688	687	684	681	682	685	685	685	679	673	653	631
1975	612	583	567	573	577	574	577	587	594	599	601	607
1976	613	622	632	640	577	577	571	570	640	638	642	648
1977	656	666	672	681	684	680	683	671	-	-	-	-
LEATHER AND LEATHER PRODUCTS												
1972	302	304	303	303	304	304	303	303	302	301	298	297
1973	295	294	293	293	292	292	289	289	288	289	288	287
1974	284	283	284	282	281	281	281	279	275	271	270	265
1975	257	250	245	245	249	252	256	258	262	267	270	272
1976	275	277	276	278	278	275	271	268	268	265	264	264
1977	265	265	266	266	267	265	258	261	-	-	-	-
SERVICE-PRODUCING												
1972	49,250	49,398	49,647	49,757	49,949	50,112	50,236	50,422	50,535	50,685	50,862	51,096
1973	51,253	51,464	51,680	51,812	51,970	52,170	52,199	52,385	52,496	52,692	52,910	52,936
1974	53,012	53,172	53,275	53,412	53,586	53,717	53,829	53,970	54,128	54,209	54,183	54,073
1975	54,048	54,104	54,060	54,093	54,166	54,187	54,427	54,586	54,719	54,867	54,960	55,124
1976	55,344	55,507	55,685	55,857	55,910	56,045	56,169	56,313	56,461	56,479	56,643	56,842
1977	56,989	57,107	57,314	57,444	57,573	57,802	57,995	58,169	-	-	-	-
TRANSPORTATION AND PUBLIC UTILITIES												
1972	4,461	4,455	4,495	4,493	4,505	4,511	4,510	4,517	4,531	4,557	4,574	4,591
1973	4,592	4,599	4,614	4,627	4,634	4,644	4,648	4,663	4,670	4,685	4,681	4,677
1974	4,705	4,716	4,711	4,707	4,704	4,704	4,699	4,708	4,683	4,686	4,678	4,654
1975	4,594	4,556	4,506	4,508	4,496	4,478	4,473	4,471	4,467	4,476	4,487	4,473
1976	4,485	4,504	4,503	4,510	4,503	4,491	4,508	4,506	4,524	4,511	4,523	4,549
1977	4,544	4,553	4,563	4,575	4,586	4,588	4,572	4,581	-	-	-	-
WHOLESALE AND RETAIL TRADE												
1972	15,657	15,722	15,837	15,841	15,899	15,970	15,978	16,047	16,086	16,135	16,203	16,303
1973	16,358	16,455	16,558	16,582	16,630	16,703	16,706	16,726	16,764	16,823	16,892	16,858
1974	16,864	16,865	16,885	16,942	17,003	17,064	17,103	17,142	17,152	17,154	17,062	16,951
1975	16,903	16,865	16,851	16,830	16,848	16,899	16,979	17,055	17,133	17,150	17,188	17,282
1976	17,401	17,469	17,537	17,608	17,645	17,682	17,737	17,778	17,839	17,807	17,848	17,925
1977	17,994	18,039	18,118	18,175	18,202	18,264	18,322	18,377	-	-	-	-
WHOLESALE TRADE												
1972	3,866	3,882	3,907	3,915	3,930	3,946	3,949	3,967	3,972	3,981	3,988	4,005
1973	4,030	4,052	4,069	4,074	4,079	4,106	4,109	4,124	4,130	4,150	4,176	4,176
1974	4,196	4,199	4,204	4,210	4,221	4,230	4,233	4,239	4,235	4,246	4,241	4,228
1975	4,205	4,185	4,178	4,172	4,171	4,157	4,165	4,163	4,177	4,180	4,178	4,194
1976	4,214	4,231	4,236	4,250	4,254	4,259	4,271	4,272	4,283	4,288	4,291	4,305
1977	4,323	4,334	4,354	4,371	4,379	4,387	4,394	4,398	-	-	-	-

ESTABLISHMENT DATA

A. EMPLOYEES ON NONAGRICULTURAL PAYROLLS, BY INDUSTRY, SEASONALLY ADJUSTED, 1972 TO DATE--CONTINUED
(IN THOUSANDS)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
RETAIL TRADE												
1972	11,791	11,840	11,930	11,926	11,969	12,024	12,029	12,080	12,114	12,154	12,215	12,298
1973	12,328	12,403	12,489	12,508	12,551	12,597	12,597	12,602	12,634	12,673	12,716	12,682
1974	12,668	12,666	12,681	12,732	12,782	12,834	12,870	12,903	12,917	12,908	12,821	12,723
1975	12,698	12,680	12,673	12,658	12,677	12,742	12,814	12,892	12,956	12,970	13,010	13,088
1976	13,187	13,238	13,301	13,358	13,391	13,423	13,466	13,506	13,556	13,519	13,557	13,620
1977	13,671	13,705	13,764	13,804	13,823	13,877	13,928	13,979	-	-	-	-
FINANCE, INSURANCE, REAL ESTATE												
1972	3,877	3,885	3,901	3,911	3,925	3,946	3,951	3,964	3,973	3,985	3,996	4,007
1973	4,014	4,034	4,049	4,061	4,076	4,085	4,099	4,118	4,127	4,136	4,145	4,153
1974	4,168	4,186	4,196	4,202	4,213	4,210	4,214	4,221	4,224	4,224	4,226	4,225
1975	4,215	4,210	4,208	4,205	4,212	4,206	4,211	4,222	4,235	4,242	4,248	4,256
1976	4,261	4,266	4,276	4,289	4,282	4,305	4,312	4,316	4,338	4,359	4,381	4,398
1977	4,419	4,431	4,453	4,463	4,481	4,494	4,506	4,524	-	-	-	-
SERVICES												
1972	12,117	12,165	12,210	12,273	12,328	12,403	12,453	12,487	12,491	12,536	12,583	12,637
1973	12,724	12,789	12,842	12,887	12,931	12,985	13,022	13,100	13,156	13,208	13,288	13,310
1974	13,313	13,400	13,453	13,488	13,573	13,621	13,656	13,696	13,753	13,797	13,822	13,833
1975	13,843	13,865	13,864	13,878	13,903	13,898	13,997	14,049	14,118	14,182	14,218	14,265
1976	14,342	14,397	14,460	14,536	14,567	14,625	14,664	14,736	14,783	14,805	14,858	14,936
1977	15,010	15,068	15,149	15,182	15,197	15,260	15,372	15,448	-	-	-	-
GOVERNMENT												
1972	13,138	13,171	13,204	13,239	13,292	13,282	13,344	13,407	13,454	13,472	13,506	13,558
1973	13,565	13,587	13,617	13,655	13,699	13,753	13,724	13,778	13,779	13,840	13,904	13,938
1974	13,962	14,005	14,030	14,073	14,093	14,116	14,157	14,203	14,316	14,348	14,395	14,410
1975	14,493	14,608	14,631	14,672	14,707	14,706	14,767	14,789	14,766	14,817	14,819	14,848
1976	14,855	14,871	14,909	14,914	14,913	14,942	14,948	14,977	14,977	14,997	15,033	15,034
1977	15,022	15,016	15,031	15,049	15,107	15,196	15,223	15,239	-	-	-	-
FEDERAL												
1972	2,703	2,698	2,691	2,695	2,691	2,676	2,648	2,666	2,671	2,677	2,678	2,684
1973	2,673	2,665	2,664	2,667	2,670	2,654	2,626	2,645	2,654	2,659	2,668	2,680
1974	2,683	2,699	2,702	2,711	2,719	2,723	2,732	2,734	2,739	2,740	2,738	2,738
1975	2,736	2,735	2,735	2,735	2,736	2,741	2,750	2,753	2,757	2,759	2,756	2,752
1976	2,749	2,742	2,735	2,735	2,732	2,728	2,723	2,729	2,728	2,727	2,731	2,720
1977	2,721	2,721	2,725	2,721	2,725	2,735	2,721	2,732	-	-	-	-
STATE AND LOCAL												
1972	10,435	10,473	10,513	10,544	10,601	10,606	10,696	10,741	10,783	10,795	10,828	10,874
1973	10,892	10,922	10,953	10,988	11,029	11,099	11,098	11,133	11,125	11,181	11,236	11,258
1974	11,279	11,306	11,328	11,362	11,374	11,395	11,425	11,469	11,577	11,608	11,657	11,672
1975	11,757	11,873	11,896	11,937	11,971	11,965	12,017	12,036	12,009	12,058	12,063	12,096
1976	12,106	12,129	12,174	12,179	12,181	12,214	12,225	12,248	12,249	12,270	12,302	12,314
1977	12,301	12,295	12,306	12,328	12,382	12,461	12,502	12,507	-	-	-	-

B. PRODUCTION OF NONSUPERVISORY WORKERS¹ ON PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE
(IN THOUSANDS)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
TOTAL PRIVATE												
1972	49,020	49,116	49,417	49,600	49,818	50,045	49,977	50,165	50,264	50,577	50,814	51,000
1973	51,315	51,683	51,890	52,019	52,162	52,391	52,422	52,525	52,596	52,805	53,023	53,113
1974	53,018	53,106	53,077	53,152	53,256	53,287	53,262	53,248	53,174	53,104	52,682	52,059
1975	51,586	51,023	50,679	50,592	50,674	50,619	50,817	51,139	51,427	51,599	51,714	51,929
1976	52,261	52,466	52,671	52,929	52,970	53,045	53,126	53,164	53,427	53,307	53,537	53,718
1977	53,800	54,080	54,462	54,693	54,823	54,968	55,122	55,117	-	-	-	-
GOODS-PRODUCING												
1972	17,243	17,255	17,367	17,452	17,552	17,624	17,543	17,628	17,671	17,861	17,949	17,977
1973	18,159	18,366	18,444	18,467	18,523	18,629	18,619	18,609	18,595	18,691	18,770	18,838
1974	18,744	18,744	18,662	18,649	18,597	18,561	18,474	18,412	18,321	18,201	17,856	17,363
1975	17,009	16,518	16,260	16,181	16,214	16,160	16,171	16,354	16,515	16,596	16,618	16,726
1976	16,870	16,924	17,013	17,124	17,108	17,105	17,076	17,018	17,150	17,058	17,171	17,186
1977	17,180	17,349	17,594	17,739	17,806	17,877	17,888	17,784	-	-	-	-
MINING												
1972	472	471	475	469	471	470	470	471	474	474	473	472
1973	474	478	477	479	480	484	490	493	495	497	502	507
1974	512	516	517	523	527	529	531	533	537	544	545	510
1975	552	554	556	555	563	563	565	568	569	576	577	582
1976	582	581	586	588	588	592	598	561	605	605	612	613
1977	609	617	636	639	637	645	624	609	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

ESTABLISHMENT DATA

B. PRODUCTION OR NONSUPERVISORY WORKERS¹ ON PRIVATE NONAGRICULTURAL PATROLS, SEASONALLY ADJUSTED, 1972 TO DATE--CONTINUED (IN THOUSANDS)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
CONTRACT CONSTRUCTION												
1972	3,186	3,109	3,135	3,151	3,178	3,195	3,154	3,192	3,194	3,211	3,180	3,091
1973	3,195	3,259	3,279	3,265	3,297	3,346	3,369	3,343	3,356	3,334	3,334	3,356
1974	3,323	3,406	3,371	3,330	3,300	3,256	3,190	3,216	3,180	3,154	3,099	3,049
1975	3,027	2,899	2,774	2,753	2,753	2,727	2,741	2,777	2,802	2,803	2,816	2,833
1976	2,845	2,826	2,826	2,860	2,857	2,858	2,863	2,844	2,831	2,852	2,871	2,854
1977	2,764	2,880	2,983	3,056	3,067	3,100	3,119	3,097	-	-	-	-
MANUFACTURING												
1972	13,585	13,675	13,757	13,832	13,903	13,959	13,919	13,965	14,003	14,176	14,296	14,414
1973	14,490	14,629	14,688	14,723	14,746	14,799	14,760	14,773	14,744	14,860	14,934	14,975
1974	14,909	14,822	14,774	14,796	14,770	14,776	14,753	14,663	14,604	14,503	14,212	13,804
1975	13,430	13,065	12,930	12,873	12,898	12,870	12,865	13,009	13,144	13,217	13,225	13,311
1976	13,443	13,517	13,601	13,676	13,663	13,655	13,615	13,613	13,714	13,601	13,688	13,719
1977	13,807	13,852	13,975	14,044	14,102	14,132	14,145	14,078	-	-	-	-
DURABLE GOODS												
1972	7,705	7,781	7,842	7,895	7,951	7,981	7,981	8,018	8,048	8,196	8,283	8,378
1973	8,449	8,557	8,602	8,630	8,669	8,708	8,715	8,727	8,716	8,797	8,840	8,876
1974	8,807	8,739	8,713	8,760	8,733	8,751	8,755	8,672	8,645	8,602	8,402	8,133
1975	7,891	7,646	7,570	7,488	7,458	7,412	7,373	7,452	7,534	7,547	7,540	7,603
1976	7,690	7,745	7,811	7,861	7,901	7,902	7,879	7,900	7,946	7,858	7,932	7,967
1977	8,024	8,039	8,137	8,167	8,211	8,236	8,271	8,252	-	-	-	-
ORDNANCE AND ACCESSORIES												
1972	88	87	87	89	90	92	93	94	90	91	98	97
1973	97	97	97	95	93	92	92	91	90	89	86	88
1974	87	86	86	85	83	83	83	84	86	86	85	85
1975	85	85	84	83	83	82	81	77	76	75	72	74
1976	73	73	73	73	72	72	71	71	70	70	70	70
1977	70	70	70	71	72	73	73	71	-	-	-	-
LUMBER AND WOOD PRODUCTS												
1972	524	523	526	531	533	536	538	539	541	541	548	549
1973	548	550	552	550	553	556	554	556	555	556	558	560
1974	558	558	560	558	554	545	541	532	524	507	487	476
1975	458	445	448	444	455	459	464	469	474	481	482	485
1976	495	497	499	499	503	505	507	508	515	516	524	528
1977	529	532	538	540	543	544	544	548	-	-	-	-
FURNITURE AND FIXTURES												
1972	400	404	407	410	411	413	419	419	421	426	430	434
1973	437	440	443	444	444	447	443	443	439	441	442	443
1974	440	436	434	435	434	433	430	426	420	411	395	384
1975	365	353	347	350	354	353	358	367	375	379	384	387
1976	392	397	400	404	408	405	403	399	403	403	404	406
1977	405	409	413	417	419	420	423	416	-	-	-	-
STONE, CLAY, AND GLASS PRODUCTS												
1972	515	516	518	521	525	527	528	529	529	534	537	537
1973	540	547	549	550	552	554	555	553	553	558	561	569
1974	569	568	568	562	562	556	557	555	546	539	529	518
1975	503	489	482	479	479	478	476	482	486	486	488	489
1976	492	489	492	498	499	501	502	499	501	501	506	501
1977	502	489	511	518	521	527	527	523	-	-	-	-
PRIMARY METAL INDUSTRIES												
1972	940	948	970	976	984	983	979	995	1,010	1,019	1,024	1,031
1973	1,033	1,042	1,041	1,046	1,056	1,062	1,063	1,070	1,080	1,088	1,097	1,095
1974	1,087	1,082	1,075	1,076	1,074	1,079	1,074	1,074	1,082	1,080	1,070	1,035
1975	1,015	978	953	928	909	892	878	888	908	891	892	899
1976	905	911	922	931	936	943	947	951	958	934	929	925
1977	925	919	939	944	952	954	943	937	-	-	-	-
FABRICATED METAL PRODUCTS												
1972	1,029	1,040	1,048	1,054	1,063	1,069	1,066	1,072	1,074	1,087	1,098	1,110
1973	1,122	1,140	1,145	1,151	1,156	1,159	1,160	1,158	1,152	1,165	1,178	1,182
1974	1,175	1,170	1,164	1,162	1,161	1,165	1,171	1,158	1,145	1,136	1,117	1,077
1975	1,027	1,012	992	990	984	980	962	991	996	1,005	1,005	1,008
1976	1,020	1,032	1,039	1,047	1,050	1,049	1,045	1,050	1,056	1,046	1,053	1,061
1977	1,069	1,075	1,084	1,085	1,096	1,103	1,106	1,104	-	-	-	-
MACHINERY, EXC. ELECTRICAL												
1972	1,186	1,203	1,207	1,218	1,242	1,250	1,257	1,264	1,274	1,298	1,311	1,332
1973	1,346	1,361	1,376	1,391	1,404	1,417	1,424	1,437	1,437	1,450	1,466	1,478
1974	1,482	1,481	1,490	1,494	1,491	1,504	1,497	1,506	1,504	1,518	1,496	1,473
1975	1,447	1,420	1,397	1,373	1,342	1,321	1,307	1,303	1,311	1,320	1,305	1,305
1976	1,311	1,317	1,322	1,330	1,339	1,339	1,349	1,348	1,365	1,338	1,354	1,358
1977	1,370	1,378	1,385	1,390	1,404	1,409	1,438	1,443	-	-	-	-
ELECTRICAL EQUIPMENT AND SUPPLIES												
1972	1,195	1,206	1,217	1,221	1,229	1,239	1,239	1,248	1,255	1,281	1,293	1,314
1973	1,328	1,348	1,364	1,371	1,379	1,393	1,401	1,395	1,391	1,416	1,422	1,431
1974	1,428	1,420	1,414	1,408	1,401	1,397	1,405	1,352	1,359	1,347	1,299	1,245
1975	1,211	1,158	1,143	1,123	1,114	1,108	1,104	1,128	1,134	1,147	1,147	1,160
1976	1,170	1,181	1,198	1,209	1,216	1,217	1,208	1,220	1,219	1,224	1,229	1,233
1977	1,239	1,254	1,267	1,276	1,285	1,287	1,299	1,296	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

ESTABLISHMENT DATA

B. PRODUCTION OF NONSUPERVISORY WORKERS¹ ON PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE--CONTINUED
(IN THOUSANDS)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
TRANSPORTATION EQUIPMENT												
1972	1,235	1,255	1,260	1,268	1,267	1,257	1,249	1,238	1,233	1,291	1,308	1,332
1973	1,355	1,382	1,381	1,380	1,375	1,370	1,364	1,363	1,362	1,369	1,359	1,353
1974	1,303	1,261	1,241	1,296	1,290	1,304	1,314	1,306	1,308	1,314	1,274	1,206
1975	1,160	1,099	1,130	1,126	1,149	1,150	1,149	1,150	1,171	1,154	1,155	1,181
1976	1,209	1,220	1,234	1,234	1,237	1,230	1,214	1,224	1,228	1,197	1,235	1,250
1977	1,273	1,267	1,284	1,279	1,272	1,275	1,281	1,279	-	-	-	-
INSTRUMENTS AND RELATED PRODUCTS												
1972	266	267	268	271	273	277	277	280	282	285	288	290
1973	294	297	300	298	305	306	306	310	309	311	315	317
1974	317	320	322	325	324	327	327	326	324	322	317	312
1975	307	300	292	291	287	286	287	287	291	295	296	298
1976	301	304	305	310	312	313	313	312	312	312	313	316
1977	318	320	321	322	323	323	322	321	-	-	-	-
MISCELLANEOUS MANUFACTURING INDUSTRIES												
1972	327	332	334	336	334	338	336	340	339	343	348	352
1973	349	353	354	354	352	352	353	351	348	354	356	360
1974	361	357	359	359	359	358	356	353	347	342	333	322
1975	313	307	302	301	302	303	307	310	312	314	314	317
1976	322	324	327	326	329	328	320	318	319	317	315	319
1977	324	326	325	325	324	321	315	314	-	-	-	-
NONDURABLE GOODS												
1972	5,880	5,894	5,915	5,937	5,952	5,978	5,938	5,947	5,955	5,980	6,013	6,036
1973	6,041	6,072	6,086	6,093	6,077	6,091	6,045	6,046	6,028	6,063	6,094	6,099
1974	6,102	6,083	6,061	6,036	6,037	6,025	5,998	5,991	5,959	5,901	5,810	5,671
1975	5,539	5,419	5,360	5,385	5,440	5,458	5,492	5,557	5,610	5,670	5,685	5,708
1976	5,753	5,772	5,790	5,815	5,762	5,753	5,736	5,713	5,768	5,743	5,756	5,752
1977	5,783	5,813	5,838	5,877	5,891	5,896	5,874	5,826	-	-	-	-
FOOD AND KINDRED PRODUCTS												
1972	1,179	1,172	1,176	1,179	1,176	1,199	1,184	1,167	1,165	1,169	1,167	1,168
1973	1,170	1,174	1,170	1,169	1,162	1,164	1,156	1,137	1,143	1,164	1,177	1,183
1974	1,184	1,182	1,188	1,175	1,175	1,160	1,148	1,157	1,157	1,158	1,150	1,144
1975	1,127	1,120	1,121	1,123	1,130	1,132	1,132	1,144	1,148	1,153	1,147	1,148
1976	1,157	1,164	1,156	1,161	1,167	1,170	1,174	1,168	1,165	1,161	1,164	1,160
1977	1,170	1,175	1,181	1,187	1,181	1,181	1,170	1,156	-	-	-	-
TOBACCO MANUFACTURES												
1972	61	62	63	64	64	64	63	61	60	58	60	62
1973	62	64	66	66	67	67	65	65	65	65	67	67
1974	67	67	67	67	66	66	65	66	66	66	63	64
1975	66	66	64	63	63	63	65	65	66	65	66	65
1976	65	64	62	63	63	62	67	65	63	63	62	62
1977	60	60	56	60	58	59	57	54	-	-	-	-
TEXTILE MILL PRODUCTS												
1972	855	857	864	866	872	874	875	875	876	882	889	896
1973	896	903	906	904	903	903	902	899	897	898	901	901
1974	899	892	885	882	880	879	871	866	858	835	816	787
1975	750	731	728	746	768	775	782	798	813	828	832	833
1976	839	842	844	848	852	849	847	844	844	838	838	837
1977	838	842	849	855	860	860	866	855	-	-	-	-
APPAREL AND OTHER TEXTILE PRODUCTS												
1972	1,188	1,193	1,193	1,199	1,194	1,194	1,173	1,201	1,206	1,210	1,221	1,222
1973	1,220	1,229	1,232	1,238	1,230	1,230	1,192	1,219	1,216	1,217	1,215	1,209
1974	1,210	1,199	1,185	1,183	1,184	1,177	1,171	1,163	1,156	1,141	1,120	1,069
1975	1,044	1,020	1,006	1,022	1,035	1,044	1,060	1,073	1,087	1,107	1,114	1,123
1976	1,133	1,128	1,137	1,137	1,134	1,134	1,115	1,109	1,101	1,093	1,095	1,092
1977	1,096	1,100	1,102	1,107	1,109	1,117	1,105	1,102	-	-	-	-
PAPER AND ALLIED PRODUCTS												
1972	523	522	524	529	533	533	534	533	533	534	536	539
1973	539	541	543	542	544	545	543	546	542	545	546	546
1974	550	548	548	548	546	545	545	542	539	530	522	512
1975	500	485	475	471	472	471	475	479	484	490	492	497
1976	503	505	509	512	514	516	516	514	514	513	516	515
1977	517	518	519	522	527	528	529	528	-	-	-	-
PRINTING AND PUBLISHING												
1972	656	657	659	660	662	661	660	661	661	663	665	665
1973	666	668	670	670	669	671	671	669	666	669	673	673
1974	673	677	672	669	671	675	676	675	671	668	662	660
1975	657	649	644	639	636	633	629	632	631	629	629	630
1976	629	627	629	630	631	630	630	629	631	631	632	631
1977	632	635	636	639	642	642	642	640	-	-	-	-
CHEMICALS AND ALLIED PRODUCTS												
1972	579	579	579	580	584	584	582	582	585	587	591	593
1973	593	593	595	596	599	601	605	602	601	605	605	607
1974	609	609	610	609	611	615	616	619	619	618	611	597
1975	584	575	563	558	562	562	562	566	570	577	578	579
1976	583	586	588	590	591	588	591	594	589	588	591	591
1977	596	600	602	606	610	610	612	609	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

ESTABLISHMENT DATA

B. PRODUCTION OR NONSUPERVISORY WORKERS¹ ON PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE—CONTINUED (IN THOUSANDS)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
PETROLEUM AND COAL PRODUCTS												
1972	116	121	120	121	120	120	120	121	121	122	122	122
1973	122	120	121	120	119	122	123	124	124	124	125	125
1974	126	126	125	126	127	127	127	126	126	127	127	126
1975	120	117	122	121	123	125	127	128	128	129	130	130
1976	131	133	132	133	131	130	130	130	131	131	132	132
1977	133	132	135	137	137	138	137	137	-	-	-	-
RUBBER AND PLASTICS PRODUCTS, NEC												
1972	465	471	477	480	485	488	487	486	489	497	507	515
1973	520	529	532	537	534	538	541	537	527	529	538	542
1974	541	541	539	536	537	541	539	539	532	527	508	487
1975	472	445	431	435	439	438	441	451	457	462	464	469
1976	475	484	494	501	438	436	432	430	500	498	501	507
1977	514	524	530	536	538	534	536	522	-	-	-	-
LEATHER AND LEATHER PRODUCTS												
1972	258	260	260	259	262	261	260	260	259	258	255	254
1973	253	251	251	251	250	250	247	248	247	247	247	246
1974	243	242	242	241	240	240	240	238	235	231	231	225
1975	219	211	206	207	212	215	219	221	226	230	233	234
1976	238	239	239	240	241	238	234	230	230	227	225	225
1977	227	227	228	228	229	227	220	223	-	-	-	-
PRIVATE SERVICE-PRODUCING												
1972	31,777	31,861	32,050	32,148	32,266	32,421	32,434	32,537	32,593	32,716	32,865	33,023
1973	33,156	33,317	33,446	33,552	33,639	33,762	33,803	33,916	34,001	34,114	34,253	34,275
1974	34,274	34,362	34,415	34,503	34,659	34,726	34,788	34,836	34,853	34,903	34,826	34,696
1975	34,577	34,505	34,419	34,411	34,460	34,459	34,646	34,785	34,912	35,003	35,096	35,203
1976	35,391	35,542	35,658	35,805	35,862	35,940	36,050	36,146	36,277	36,249	36,366	36,532
1977	36,620	36,731	36,868	36,954	37,017	37,091	37,234	37,333	-	-	-	-
TRANSPORTATION AND PUBLIC UTILITIES												
1972	3,869	3,859	3,899	3,898	3,906	3,912	3,910	3,914	3,927	3,948	3,968	3,982
1973	3,977	3,981	3,990	4,007	4,011	4,019	4,018	4,033	4,037	4,055	4,048	4,050
1974	4,071	4,080	4,074	4,072	4,073	4,064	4,066	4,065	4,039	4,041	4,035	4,019
1975	3,948	3,910	3,865	3,861	3,853	3,839	3,834	3,829	3,828	3,835	3,850	3,840
1976	3,846	3,864	3,859	3,865	3,855	3,844	3,859	3,858	3,873	3,856	3,865	3,904
1977	3,882	3,878	3,886	3,893	3,903	3,903	3,885	3,890	-	-	-	-
WHOLESALE AND RETAIL TRADE												
1972	13,899	13,956	14,042	14,077	14,126	14,200	14,174	14,240	14,271	14,324	14,402	14,490
1973	14,544	14,631	14,706	14,726	14,772	14,828	14,827	14,839	14,859	14,906	14,970	14,975
1974	14,944	14,934	14,956	15,008	15,066	15,116	15,144	15,166	15,172	15,176	15,103	14,985
1975	14,928	14,895	14,869	14,849	14,867	14,916	14,998	15,068	15,139	15,154	15,195	15,260
1976	15,378	15,448	15,516	15,577	15,616	15,636	15,683	15,717	15,771	15,733	15,770	15,827
1977	15,876	15,927	15,994	16,035	16,064	16,114	16,165	16,208	-	-	-	-
WHOLESALE TRADE												
1972	3,231	3,240	3,266	3,273	3,290	3,305	3,306	3,320	3,326	3,333	3,339	3,353
1973	3,374	3,391	3,402	3,410	3,411	3,432	3,434	3,446	3,450	3,466	3,492	3,488
1974	3,505	3,510	3,515	3,515	3,524	3,532	3,532	3,539	3,535	3,540	3,537	3,522
1975	3,496	3,477	3,464	3,458	3,455	3,443	3,448	3,448	3,463	3,459	3,455	3,470
1976	3,488	3,502	3,505	3,516	3,524	3,523	3,535	3,538	3,547	3,550	3,553	3,562
1977	3,572	3,588	3,602	3,614	3,622	3,623	3,627	3,629	-	-	-	-
RETAIL TRADE												
1972	10,668	10,716	10,776	10,804	10,836	10,895	10,868	10,920	10,945	10,991	11,063	11,137
1973	11,170	11,240	11,304	11,316	11,361	11,396	11,393	11,393	11,409	11,440	11,478	11,487
1974	11,439	11,424	11,441	11,493	11,542	11,584	11,612	11,627	11,637	11,636	11,566	11,463
1975	11,432	11,418	11,405	11,391	11,412	11,473	11,550	11,620	11,676	11,695	11,740	11,790
1976	11,890	11,946	12,011	12,061	12,092	12,113	12,148	12,179	12,224	12,183	12,217	12,265
1977	12,304	12,339	12,392	12,421	12,442	12,491	12,538	12,579	-	-	-	-
FINANCE, INSURANCE, REAL ESTATE												
1972	3,050	3,055	3,064	3,066	3,082	3,096	3,097	3,106	3,110	3,116	3,126	3,133
1973	3,137	3,152	3,156	3,166	3,176	3,178	3,191	3,202	3,206	3,211	3,219	3,219
1974	3,220	3,236	3,239	3,243	3,249	3,246	3,246	3,246	3,249	3,247	3,232	3,229
1975	3,222	3,217	3,207	3,206	3,212	3,212	3,209	3,222	3,230	3,232	3,240	3,248
1976	3,254	3,258	3,264	3,276	3,263	3,284	3,291	3,292	3,309	3,325	3,345	3,357
1977	3,371	3,382	3,393	3,402	3,410	3,420	3,437	3,439	-	-	-	-
SERVICES												
1972	10,959	10,991	11,045	11,107	11,152	11,213	11,253	11,277	11,285	11,328	11,369	11,418
1973	11,498	11,553	11,594	11,653	11,680	11,737	11,767	11,842	11,899	11,942	12,016	12,031
1974	12,039	12,112	12,146	12,180	12,271	12,300	12,332	12,359	12,393	12,439	12,456	12,463
1975	12,479	12,483	12,478	12,495	12,528	12,492	12,605	12,666	12,715	12,782	12,811	12,855
1976	12,913	12,972	13,019	13,087	13,128	13,176	13,217	13,279	13,324	13,335	13,386	13,444
1977	13,491	13,544	13,595	13,624	13,640	13,654	13,747	13,796	-	-	-	-

¹ DATA RELATE TO PRODUCTION AND RELATED WORKERS IN MINING AND MANUFACTURING; TO CONSTRUCTION WORKERS IN CONTRACT CONSTRUCTION; AND TO NONSUPERVISORY WORKERS IN TRANSPORTATION AND PUBLIC UTILITIES; WHOLESALE AND RETAIL TRADE; FINANCE, INSURANCE, AND REAL ESTATE; AND SERVICES.

ESTABLISHMENT DATA

C. AVERAGE WEEKLY HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS¹ ON PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
TOTAL PRIVATE												
1972	37.1	37.2	37.1	37.2	37.1	37.2	37.1	37.1	37.2	37.2	37.1	37.0
1973	37.0	37.1	37.2	37.2	37.1	37.1	37.1	37.0	37.0	36.9	37.0	36.9
1974	36.7	36.8	36.8	36.5	36.7	36.7	36.7	36.6	36.6	36.5	36.2	36.2
1975	36.2	36.0	35.9	35.9	36.0	36.0	36.0	36.1	36.2	36.2	36.2	36.3
1976	36.4	36.4	36.1	36.1	36.3	36.1	36.1	36.1	36.0	36.2	36.2	36.2
1977	35.8	36.2	36.2	36.2	36.3	36.2	36.1	36.0	-	-	-	-
MINING												
1972	42.9	42.5	42.8	42.6	42.3	42.5	42.3	42.6	42.6	42.6	42.5	41.8
1973	41.8	41.8	41.9	42.1	42.4	42.6	42.6	42.8	42.8	42.5	42.8	43.5
1974	42.9	43.2	43.0	43.1	43.2	43.2	43.1	43.0	43.0	43.3	36.2	41.3
1975	42.6	42.3	41.8	41.2	42.6	42.2	42.2	42.0	42.0	42.6	42.7	42.8
1976	43.2	43.0	42.7	42.7	42.5	42.3	42.6	41.2	43.4	43.3	43.3	43.6
1977	43.1	43.5	44.2	44.3	44.1	44.1	44.8	44.2	-	-	-	-
CONTRACT CONSTRUCTION												
1972	37.3	37.2	37.0	36.8	36.6	36.7	36.8	37.0	37.1	37.3	36.5	35.5
1973	36.1	35.9	36.7	36.9	37.2	37.1	37.2	37.1	36.9	36.7	37.9	37.0
1974	36.3	37.4	36.9	36.3	36.7	37.0	37.1	36.7	36.8	37.1	37.0	37.3
1975	37.1	36.5	34.9	36.7	36.8	35.9	36.4	36.8	36.9	36.6	36.8	37.2
1976	37.6	37.6	36.0	37.4	37.0	37.3	37.0	36.9	36.1	37.3	37.3	37.2
1977	35.4	37.5	37.2	37.3	37.4	36.8	36.9	36.5	-	-	-	-
MANUFACTURING												
1972	40.2	40.5	40.4	40.7	40.5	40.6	40.6	40.6	40.7	40.7	40.9	40.6
1973	40.4	41.0	40.9	41.0	40.8	40.6	40.7	40.5	40.7	40.6	40.6	40.6
1974	40.4	40.4	40.4	39.3	40.3	40.2	40.2	40.1	40.0	40.0	39.5	39.3
1975	39.2	38.9	38.8	39.1	39.0	39.2	39.4	39.7	39.9	39.8	39.9	40.3
1976	40.4	40.3	40.2	39.4	40.3	40.2	40.1	40.0	39.7	39.9	40.1	40.0
1977	39.5	40.3	40.4	40.3	40.4	40.5	40.2	40.3	-	-	-	-
DURABLE GOODS												
1972	40.8	41.1	41.1	41.4	41.2	41.3	41.2	41.3	41.4	41.5	41.7	41.4
1973	41.4	41.9	41.7	41.8	41.6	41.4	41.4	41.2	41.5	41.3	41.3	41.3
1974	41.0	41.0	41.0	39.7	40.9	40.9	40.8	40.8	40.8	40.8	40.3	40.2
1975	40.0	39.7	39.5	39.7	39.5	39.7	39.8	40.0	40.2	40.2	40.2	40.7
1976	40.8	40.7	40.7	39.8	40.8	40.8	40.8	40.7	40.3	40.5	40.7	40.5
1977	40.0	40.8	41.0	40.8	41.0	41.2	40.9	40.9	-	-	-	-
ORDNANCE AND ACCESSORIES												
1972	41.7	42.0	41.8	42.0	41.9	41.7	42.1	42.7	42.0	42.2	42.0	42.0
1973	42.0	42.3	42.0	41.7	41.6	41.4	42.1	41.3	42.0	41.9	41.5	41.8
1974	41.4	41.6	42.2	41.2	42.2	41.8	41.6	41.7	41.5	41.4	41.8	41.7
1975	41.8	41.4	41.3	41.3	41.1	41.5	40.0	41.4	41.7	41.5	41.5	41.2
1976	41.4	40.9	40.9	39.6	40.8	41.0	40.8	40.7	40.2	40.7	40.6	40.9
1977	40.6	40.8	40.7	41.0	41.1	40.8	40.3	40.2	-	-	-	-
LUMBER AND WOOD PRODUCTS												
1972	41.0	40.9	41.0	41.1	41.0	41.2	41.2	41.1	41.2	41.3	41.2	39.8
1973	40.0	40.6	41.2	41.2	40.9	40.9	40.5	40.5	40.7	40.6	40.4	40.9
1974	40.6	40.5	40.4	40.1	40.2	40.0	39.8	39.7	39.1	38.8	38.6	38.1
1975	38.1	38.4	38.1	38.8	38.8	39.1	39.1	39.4	39.6	39.7	39.6	40.1
1976	41.0	40.2	40.0	40.0	40.1	39.8	40.6	40.1	39.8	40.3	40.3	40.3
1977	40.0	40.4	40.2	40.0	40.0	39.9	40.4	39.6	-	-	-	-
FURNITURE AND FIXTURES												
1972	40.3	40.5	40.5	40.7	40.5	40.7	40.5	40.6	40.4	40.4	40.5	40.1
1973	39.0	40.5	40.6	40.4	40.2	40.0	39.9	39.8	39.6	39.6	39.7	39.7
1974	39.8	39.7	39.7	38.8	39.4	39.4	39.4	38.9	38.7	38.6	37.7	37.3
1975	36.4	36.4	36.7	37.3	37.5	37.6	37.9	38.3	38.9	38.9	39.0	39.3
1976	39.2	39.3	39.1	38.4	38.9	38.7	38.5	38.5	38.1	38.4	38.6	38.5
1977	36.9	38.2	38.6	38.5	38.7	38.9	38.8	39.0	-	-	-	-
STONE, CLAY, AND GLASS PRODUCTS												
1972	41.9	42.0	42.0	42.1	41.8	42.0	41.9	41.9	42.0	42.1	41.8	41.5
1973	41.2	42.2	42.2	42.5	42.3	42.2	42.2	42.1	42.3	42.0	42.1	42.1
1974	41.5	41.8	41.7	41.3	41.5	41.5	41.4	41.4	41.3	41.2	41.2	41.0
1975	40.8	40.2	39.7	40.3	40.2	40.3	40.6	40.7	40.8	40.8	40.9	41.2
1976	41.4	41.4	40.8	41.1	41.3	41.3	41.0	41.1	41.0	41.3	41.2	41.2
1977	40.0	41.4	41.4	41.7	41.6	41.6	41.4	41.4	-	-	-	-
PRIMARY METAL INDUSTRIES												
1972	40.7	41.2	41.3	41.4	41.5	41.6	41.6	41.7	41.6	42.0	42.6	42.2
1973	42.6	42.7	42.4	42.5	42.2	42.0	42.2	41.9	42.4	42.5	43.2	42.2
1974	42.0	41.6	41.7	41.4	41.8	41.7	41.8	41.7	42.0	42.0	41.4	41.1
1975	40.6	40.3	40.0	39.8	39.5	39.6	39.6	39.8	39.9	39.9	40.1	40.3
1976	40.4	40.6	40.6	40.5	40.9	41.1	41.1	40.8	40.4	40.3	40.4	40.2
1977	40.1	40.7	41.1	41.4	41.5	41.5	41.1	41.0	-	-	-	-
FABRICATED METAL PRODUCTS												
1972	40.7	41.0	40.9	41.2	41.1	41.2	41.3	41.4	41.3	41.4	41.6	41.5
1973	41.5	41.9	41.8	41.8	41.8	41.7	41.7	41.4	41.5	41.5	41.6	41.3
1974	41.1	41.2	41.3	39.6	41.2	41.1	40.9	41.1	41.1	40.9	40.4	40.4
1975	40.3	39.7	39.7	39.7	39.6	39.6	39.7	39.9	40.2	40.4	40.5	41.0
1976	40.9	41.0	40.9	39.6	41.0	41.0	41.0	40.9	40.6	40.5	40.8	40.5
1977	39.8	40.8	41.0	40.8	41.0	41.3	41.0	40.9	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

ESTABLISHMENT DATA

C. AVERAGE WEEKLY HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS¹ ON PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE--CONTINUED

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
MACHINERY, ETC. ELECTRICAL												
1972	41.1	41.5	41.5	42.0	41.9	42.2	42.2	42.2	42.2	42.3	42.5	42.5
1973	42.5	42.8	42.8	42.6	42.8	42.6	42.3	42.4	42.9	42.6	42.1	42.8
1974	42.4	42.4	42.6	40.8	42.5	42.5	42.4	42.6	42.5	42.5	42.1	41.9
1975	41.7	41.2	41.0	41.0	40.6	40.5	40.5	40.7	40.7	40.6	40.8	41.0
1976	41.2	41.1	41.1	40.3	41.2	41.3	41.5	41.3	40.8	41.2	41.4	41.2
1977	40.5	41.4	41.5	41.4	41.6	42.0	41.8	41.8	-	-	-	-
ELECTRICAL EQUIPMENT AND SUPPLIES												
1972	40.1	40.5	40.2	40.6	40.4	40.5	40.5	40.6	40.5	40.7	40.8	40.6
1973	40.6	40.9	40.7	40.6	40.7	40.1	40.3	40.3	40.5	40.1	40.2	40.2
1974	39.9	40.0	40.1	38.9	40.0	40.1	39.9	39.7	39.9	39.8	39.5	39.5
1975	39.4	39.1	39.2	39.4	39.2	39.3	39.5	39.6	39.6	39.7	39.6	40.0
1976	40.3	40.1	40.1	39.2	40.2	40.1	40.1	40.1	39.7	40.1	40.2	40.2
1977	39.4	40.5	40.3	40.1	40.2	40.4	40.2	40.3	-	-	-	-
TRANSPORTATION EQUIPMENT												
1972	41.2	41.7	41.8	42.4	41.8	41.6	41.3	41.4	42.0	41.8	42.3	42.4
1973	42.6	43.1	42.2	42.9	42.1	42.0	42.0	41.0	41.5	41.6	41.3	41.1
1974	40.6	40.5	40.5	38.2	40.5	40.0	40.1	40.4	40.2	40.8	39.7	39.6
1975	39.7	39.5	39.1	39.8	39.5	40.0	40.6	40.9	41.1	40.8	40.9	42.0
1976	41.8	41.9	42.1	39.9	42.2	42.4	41.8	41.8	41.3	41.4	42.0	41.2
1977	41.6	41.6	42.6	42.0	42.5	42.8	42.0	42.3	-	-	-	-
INSTRUMENTS AND RELATED PRODUCTS												
1972	40.3	40.5	40.3	40.6	40.6	40.6	40.5	40.6	40.6	40.6	40.6	40.4
1973	40.4	40.8	40.8	40.8	40.8	40.7	40.7	40.5	40.9	40.9	40.9	41.0
1974	40.7	40.8	40.7	39.5	40.4	40.5	40.1	40.4	40.1	40.0	39.9	39.6
1975	39.5	39.0	39.1	39.3	39.3	39.4	39.6	39.5	39.7	39.8	39.9	40.2
1976	40.3	40.3	40.5	39.7	40.8	40.5	40.7	40.4	39.9	40.3	40.4	40.6
1977	39.7	40.9	40.4	40.3	40.4	40.7	40.3	40.3	-	-	-	-
MISCELLANEOUS MANUFACTURING INDUSTRIES												
1972	39.2	39.4	39.2	39.5	39.4	39.5	39.2	39.4	39.4	39.3	39.4	39.0
1973	38.9	39.3	39.2	39.0	38.9	38.9	38.8	38.8	39.0	38.6	38.9	38.8
1974	38.6	38.9	38.8	37.7	38.8	38.9	38.9	38.8	38.5	38.4	38.0	38.1
1975	38.1	37.8	37.6	38.1	38.1	38.2	38.2	38.3	38.6	38.8	38.7	39.0
1976	39.0	38.7	38.7	38.1	38.7	38.6	38.8	38.5	38.2	38.7	38.9	38.9
1977	38.1	39.5	39.2	39.0	39.0	39.3	38.7	38.8	-	-	-	-
NONDURABLE GOODS												
1972	39.5	39.6	39.6	39.9	39.6	39.7	39.7	39.7	39.7	39.8	39.8	39.6
1973	39.0	39.7	39.8	39.8	39.7	39.6	39.6	39.5	39.6	39.5	39.7	39.7
1974	39.6	39.6	39.5	38.7	39.4	39.2	39.3	39.1	39.0	38.9	38.4	38.2
1975	38.0	37.7	37.9	38.2	38.4	38.7	38.8	39.2	39.5	39.4	39.5	39.7
1976	39.9	39.7	39.6	38.9	39.5	39.2	39.1	39.0	39.0	39.1	39.2	39.3
1977	38.8	39.5	39.5	39.6	39.5	39.5	39.3	39.3	-	-	-	-
FOOD AND KINDRED PRODUCTS												
1972	40.0	40.1	40.5	40.7	40.4	40.5	40.4	40.3	40.3	40.3	40.2	40.2
1973	40.0	40.1	40.2	40.1	40.3	40.2	40.3	40.3	40.5	40.4	40.6	40.7
1974	40.7	40.6	40.5	39.8	40.5	40.6	40.5	40.4	40.3	40.2	40.0	40.0
1975	39.9	39.9	40.3	40.0	39.9	40.0	40.2	40.7	40.9	40.5	40.3	40.5
1976	40.6	40.4	40.3	40.1	40.2	40.1	40.1	40.1	40.1	40.3	40.3	40.1
1977	39.4	40.3	40.2	40.3	40.0	40.0	39.8	39.7	-	-	-	-
TOBACCO MANUFACTURES												
1972	37.2	36.8	37.1	36.7	36.8	37.6	38.2	37.9	37.1	38.1	37.4	37.8
1973	36.4	38.2	38.2	38.6	38.1	38.2	37.4	38.7	38.4	39.2	39.9	38.7
1974	39.2	38.5	37.1	38.0	38.8	37.3	38.7	37.6	38.2	37.4	37.0	37.9
1975	37.5	37.1	38.2	37.8	37.0	39.4	36.6	37.8	38.1	37.6	39.3	37.9
1976	39.1	38.9	38.8	38.4	38.4	38.0	36.0	37.0	37.1	37.5	36.8	37.5
1977	36.1	39.1	38.2	38.2	38.4	38.7	38.6	37.8	-	-	-	-
TEXTILE MILL PRODUCTS												
1972	41.4	41.4	41.4	41.5	41.2	41.2	41.1	41.2	41.2	41.4	41.6	41.5
1973	39.8	41.2	41.4	41.6	40.9	40.8	40.7	40.8	40.8	40.6	40.8	40.9
1974	40.9	40.7	40.6	39.2	40.1	40.1	40.1	39.4	39.0	38.4	37.7	36.7
1975	36.4	36.1	36.9	37.9	38.7	39.1	39.5	40.4	40.8	41.0	41.0	41.2
1976	41.6	40.9	40.8	39.2	40.5	40.1	39.9	39.4	39.1	39.5	39.8	40.1
1977	40.1	40.5	40.7	40.5	40.5	40.3	40.1	40.2	-	-	-	-
APPAREL AND OTHER TEXTILE PRODUCTS												
1972	36.0	36.3	35.9	36.1	35.8	35.9	35.9	35.9	35.9	36.1	36.1	35.7
1973	34.7	36.0	36.3	36.1	36.0	35.9	35.9	35.7	35.7	35.6	35.7	35.9
1974	35.4	35.7	35.5	34.6	35.6	34.7	35.3	35.2	35.1	35.2	34.4	34.2
1975	34.1	33.7	33.8	34.4	34.5	35.1	35.2	35.5	36.0	36.0	36.1	36.4
1976	36.5	36.3	36.2	35.0	35.9	35.7	35.5	35.3	35.0	35.0	35.2	35.2
1977	34.2	35.6	35.6	35.3	35.6	35.8	35.3	35.5	-	-	-	-
PAPER AND ALLIED PRODUCTS												
1972	42.1	42.7	42.7	42.9	42.7	42.9	42.8	43.0	42.9	42.9	43.1	42.8
1973	42.3	43.1	43.1	42.9	42.9	42.7	42.7	42.3	42.8	42.7	42.8	42.7
1974	42.8	42.6	42.6	41.9	42.4	42.3	42.3	42.0	41.9	41.8	41.3	41.2
1975	40.9	40.6	40.6	40.6	41.0	41.4	41.6	42.1	42.2	42.3	42.4	42.7
1976	42.6	42.8	42.6	42.1	42.8	42.4	42.3	42.1	42.2	42.2	42.4	42.5
1977	41.9	42.7	42.8	43.5	42.9	43.1	42.7	42.4	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

ESTABLISHMENT DATA

C. AVERAGE WEEKLY HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS¹ ON PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE--CONTINUED

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
PRINTING AND PUBLISHING												
1972	37.5	37.6	37.7	38.1	37.7	37.9	38.0	37.9	38.2	38.0	38.1	37.6
1973	37.8	38.0	38.1	38.1	38.0	37.9	37.8	37.7	38.0	37.9	37.8	37.7
1974	37.7	37.7	37.7	37.2	37.8	37.7	37.5	37.8	37.6	37.7	37.3	37.2
1975	37.3	37.0	37.0	36.9	36.8	36.8	36.8	37.0	37.0	37.0	37.2	37.5
1976	37.7	37.4	37.4	37.2	37.6	37.5	37.7	37.5	37.5	37.5	37.6	37.7
1977	37.5	37.8	37.7	37.8	37.6	37.7	37.8	37.7	-	-	-	-
CHEMICALS AND ALLIED PRODUCTS												
1972	41.8	41.8	41.8	41.8	41.6	41.9	41.7	41.7	41.9	42.0	41.9	42.0
1973	41.7	42.0	42.0	42.0	42.0	42.0	42.0	42.0	41.9	41.9	42.0	41.9
1974	41.9	42.0	41.9	41.9	41.8	41.8	41.8	41.7	41.4	41.3	41.1	40.9
1975	40.7	40.6	40.5	40.4	40.6	40.8	40.9	41.1	41.2	41.4	41.4	41.6
1976	41.6	41.7	41.6	41.6	41.6	41.5	41.4	41.3	41.9	41.6	41.7	41.7
1977	41.6	41.7	41.8	41.8	41.7	41.9	41.7	41.8	-	-	-	-
PETROLEUM AND COAL PRODUCTS												
1972	42.5	42.2	42.3	42.6	42.2	42.3	41.9	42.1	42.3	42.3	42.2	42.0
1973	42.0	41.9	42.0	42.1	42.3	41.9	42.6	42.4	42.5	42.3	42.9	42.4
1974	42.6	42.7	42.8	42.7	42.5	42.7	42.4	42.1	42.3	42.6	42.2	42.2
1975	41.8	41.8	41.6	41.0	41.5	41.3	41.4	41.2	41.6	41.8	42.0	41.8
1976	42.4	42.2	42.2	42.2	42.2	42.1	42.1	42.3	42.2	42.1	42.0	42.4
1977	42.3	42.4	42.9	42.7	42.6	43.1	42.8	43.0	-	-	-	-
RUBBER AND PLASTICS PRODUCTS, NEC												
1972	40.8	40.9	40.9	41.3	41.2	41.3	41.0	41.4	41.2	41.3	41.5	41.2
1973	41.2	41.4	41.5	41.5	41.1	40.9	41.0	40.7	41.0	40.9	41.1	40.9
1974	40.7	40.7	40.6	39.3	40.5	40.7	40.5	40.7	40.5	40.7	39.8	39.5
1975	39.4	38.6	38.5	39.2	39.6	39.7	40.0	40.1	40.2	40.0	40.1	40.6
1976	40.8	40.6	40.8	39.6	40.7	40.4	40.3	40.2	40.6	41.0	41.2	41.4
1977	40.9	41.3	41.2	41.3	41.3	41.2	40.6	40.8	-	-	-	-
LEATHER AND LEATHER PRODUCTS												
1972	38.5	38.7	38.2	38.7	38.5	38.5	38.4	38.9	38.4	37.8	37.8	36.7
1973	37.6	37.8	37.8	38.1	37.9	38.0	37.8	38.0	38.1	37.8	37.9	37.8
1974	37.7	37.9	38.1	37.2	37.6	37.5	37.0	37.1	36.7	36.8	36.6	36.2
1975	35.9	35.4	35.1	36.5	36.6	37.5	37.8	38.0	38.4	38.8	38.5	38.7
1976	38.7	38.5	38.4	37.6	38.2	37.0	37.0	36.8	36.6	36.4	36.4	36.4
1977	35.3	36.8	36.5	37.3	37.1	37.2	36.8	37.3	-	-	-	-
TRANSPORTATION AND PUBLIC UTILITIES												
1972	40.2	40.4	40.6	40.4	40.6	40.6	40.4	40.6	40.4	40.4	40.6	40.6
1973	40.6	40.5	40.5	40.5	40.8	40.7	40.7	40.6	40.5	40.6	40.6	40.3
1974	40.5	40.2	40.1	40.5	40.6	40.2	40.5	40.2	40.2	40.1	39.8	39.7
1975	40.0	39.7	39.6	39.7	39.3	39.5	39.5	39.5	39.7	39.7	39.6	39.8
1976	39.6	39.8	39.9	39.9	39.7	39.8	39.8	40.0	39.9	39.8	40.2	40.4
1977	39.8	40.5	40.3	40.1	40.3	40.1	39.9	40.0	-	-	-	-
WHOLESALE AND RETAIL TRADE												
1972	35.2	35.2	35.1	35.2	35.1	35.2	35.1	35.0	35.1	35.0	35.0	35.0
1973	35.0	35.0	35.0	34.8	34.8	34.8	34.7	34.5	34.7	34.5	34.6	34.4
1974	34.4	34.4	34.3	34.5	34.3	34.2	34.2	34.1	34.0	33.9	33.9	33.9
1975	33.9	33.8	33.9	33.7	33.8	33.8	33.7	33.8	33.7	33.9	33.8	33.9
1976	33.9	33.8	33.5	33.9	33.7	33.5	33.6	33.6	33.6	33.6	33.4	33.6
1977	33.3	33.4	33.4	33.4	33.5	33.3	33.3	33.2	-	-	-	-
WHOLESALE TRADE												
1972	39.8	40.0	39.9	39.9	39.9	39.9	39.9	39.7	39.9	39.8	39.8	39.8
1973	39.7	39.8	39.8	39.6	39.6	39.5	39.5	39.5	39.5	39.3	39.4	39.2
1974	39.1	39.0	38.9	38.9	39.0	39.0	39.0	38.8	38.8	38.7	38.6	38.6
1975	38.7	38.6	38.6	38.5	38.6	38.5	38.5	38.6	38.5	38.8	38.7	38.8
1976	38.9	38.8	38.7	38.8	38.9	38.8	39.1	38.9	38.8	38.7	38.7	38.6
1977	38.7	39.1	38.9	38.9	38.8	38.8	38.8	38.8	-	-	-	-
RETAIL TRADE												
1972	33.8	33.7	33.7	33.8	33.6	33.8	33.7	33.6	33.6	33.6	33.5	33.6
1973	33.6	33.6	33.5	33.4	33.3	33.4	33.3	33.0	33.2	33.0	33.1	32.9
1974	32.9	33.0	32.9	33.1	32.8	32.7	32.7	32.7	32.6	32.4	32.4	32.5
1975	32.4	32.3	32.5	32.3	32.4	32.4	32.3	32.4	32.3	32.4	32.4	32.4
1976	32.4	32.3	32.0	32.5	32.2	31.9	32.0	32.0	32.1	32.1	31.9	32.2
1977	31.7	31.8	31.8	31.8	31.9	31.7	31.7	31.6	-	-	-	-
FINANCE, INSURANCE, REAL ESTATE												
1972	37.2	37.0	37.0	37.2	37.0	37.1	37.1	37.0	37.0	37.2	36.9	37.0
1973	36.9	37.0	36.9	37.0	36.8	36.9	37.0	36.8	37.0	36.8	36.7	36.9
1974	36.7	36.7	36.7	36.6	36.6	36.7	36.6	36.7	36.8	36.6	36.8	36.8
1975	36.9	36.7	36.6	36.2	36.4	36.5	36.3	36.3	36.3	36.4	36.7	36.4
1976	36.5	36.6	36.5	36.6	36.8	36.6	36.6	36.8	36.7	36.7	36.7	36.7
1977	36.7	36.6	36.7	36.6	36.7	36.6	36.6	36.7	-	-	-	-
SERVICES												
1972	34.2	34.2	34.1	34.2	34.1	34.1	34.2	34.1	34.2	34.2	34.0	34.0
1973	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.0	33.9	33.9	33.9
1974	33.8	33.9	33.9	33.9	33.8	34.0	33.9	33.9	34.0	33.8	33.7	33.9
1975	33.9	33.9	33.8	33.7	33.8	33.9	33.7	33.8	33.7	33.8	33.8	33.7
1976	33.7	33.7	33.5	33.5	33.6	33.4	33.4	33.5	33.5	33.6	33.5	33.5
1977	33.5	33.5	33.5	33.5	33.5	33.3	33.2	33.2	-	-	-	-

¹ SEE FOOTNOTE 1, TABLE B.

ESTABLISHMENT DATA

D. AVERAGE WEEKLY OVERTIME HOURS OF PRODUCTION WORKERS ON MANUFACTURING PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
MANUFACTURING												
1972	3.0	3.2	3.3	3.5	3.4	3.4	3.4	3.5	3.5	3.6	3.7	3.7
1973	3.8	4.0	3.9	4.1	3.9	3.8	3.7	3.6	3.8	3.7	3.8	3.7
1974	3.6	3.5	3.6	2.9	3.5	3.4	3.3	3.3	3.2	3.1	2.8	2.6
1975	2.4	2.4	2.3	2.3	2.3	2.4	2.6	2.7	2.8	2.8	2.8	3.0
1976	3.1	3.1	3.2	2.5	3.3	3.1	3.1	3.0	3.0	3.0	3.1	3.2
1977	3.2	3.3	3.3	3.4	3.4	3.4	3.4	3.3	-	-	-	-
DURABLE GOODS												
1972	3.0	3.2	3.3	3.6	3.5	3.5	3.5	3.6	3.7	3.8	3.9	4.0
1973	4.2	4.4	4.2	4.5	4.2	4.1	4.0	3.8	4.0	3.9	4.1	3.9
1974	3.8	3.7	3.8	2.9	3.6	3.5	3.5	3.5	3.4	3.3	3.0	2.8
1975	2.5	2.5	2.3	2.3	2.3	2.3	2.5	2.6	2.7	2.7	2.7	2.9
1976	2.9	3.0	3.2	2.4	3.4	3.3	3.3	3.1	3.0	3.1	3.2	3.3
1977	3.4	3.4	3.5	3.5	3.6	3.6	3.6	3.5	-	-	-	-
NONDURABLE GOODS												
1972	3.1	3.2	3.3	3.4	3.2	3.2	3.3	3.3	3.3	3.4	3.4	3.4
1973	3.3	3.5	3.5	3.6	3.5	3.3	3.3	3.3	3.4	3.3	3.4	3.3
1974	3.4	3.3	3.3	2.8	3.3	3.2	3.1	3.1	2.9	2.8	2.6	2.4
1975	2.3	2.2	2.2	2.3	2.4	2.6	2.7	2.9	3.0	3.0	3.0	3.1
1976	3.3	3.2	3.2	2.7	3.2	2.9	2.9	2.8	2.9	2.8	3.0	3.0
1977	3.0	3.2	3.1	3.2	3.2	3.1	3.0	3.1	-	-	-	-

E. AVERAGE HOURLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS¹ ON PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE (IN DOLLARS)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
TOTAL PRIVATE												
1972	3.58	3.59	3.61	3.64	3.64	3.65	3.66	3.69	3.71	3.74	3.75	3.77
1973	3.80	3.81	3.83	3.87	3.88	3.90	3.93	3.95	3.98	4.00	4.02	4.04
1974	4.05	4.08	4.10	4.12	4.17	4.22	4.24	4.27	4.31	4.35	4.36	4.38
1975	4.41	4.43	4.45	4.47	4.49	4.52	4.55	4.58	4.60	4.63	4.67	4.69
1976	4.72	4.75	4.77	4.79	4.83	4.85	4.88	4.90	4.93	4.96	5.00	5.02
1977	5.07	5.10	5.13	5.17	5.20	5.22	5.27	5.28	-	-	-	-
MINING												
1972	4.29	4.31	4.32	4.37	4.37	4.40	4.42	4.45	4.46	4.47	4.49	4.56
1973	4.59	4.56	4.60	4.64	4.67	4.71	4.76	4.75	4.81	4.82	4.87	4.92
1974	4.95	4.99	5.03	5.11	5.16	5.22	5.27	5.33	5.37	5.42	5.22	5.39
1975	5.62	5.71	5.76	5.72	5.82	5.89	5.92	5.97	6.01	6.07	6.11	6.13
1976	6.20	6.25	6.29	6.32	6.36	6.35	6.44	6.35	6.58	6.61	6.61	6.67
1977	6.69	6.71	6.77	6.79	6.82	6.91	6.95	6.92	-	-	-	-
CONTRACT CONSTRUCTION												
1972	5.90	5.93	5.95	5.99	6.01	5.98	5.99	6.03	6.05	6.12	6.15	6.25
1973	6.34	6.25	6.27	6.30	6.31	6.35	6.37	6.40	6.45	6.45	6.45	6.46
1974	6.47	6.53	6.56	6.60	6.64	6.71	6.74	6.89	6.93	6.91	6.96	7.00
1975	7.03	7.00	7.18	7.18	7.16	7.25	7.30	7.30	7.33	7.34	7.40	7.45
1976	7.46	7.48	7.60	7.57	7.66	7.67	7.73	7.73	7.71	7.77	7.81	7.83
1977	7.92	7.90	7.91	7.95	7.97	8.04	8.06	8.08	-	-	-	-
MANUFACTURING												
1972	3.70	3.72	3.74	3.77	3.78	3.79	3.80	3.83	3.85	3.87	3.90	3.93
1973	3.97	3.98	3.98	4.02	4.03	4.05	4.09	4.10	4.13	4.16	4.18	4.20
1974	4.21	4.23	4.25	4.26	4.34	4.40	4.44	4.48	4.53	4.58	4.59	4.62
1975	4.65	4.68	4.72	4.73	4.76	4.79	4.82	4.85	4.88	4.90	4.93	4.96
1976	5.00	5.05	5.08	5.08	5.13	5.16	5.21	5.24	5.29	5.29	5.34	5.38
1977	5.43	5.45	5.49	5.53	5.57	5.61	5.66	5.68	-	-	-	-
TRANSPORTATION AND PUBLIC UTILITIES												
1972	4.46	4.48	4.53	4.58	4.60	4.62	4.66	4.68	4.68	4.77	4.79	4.84
1973	4.86	4.88	4.91	4.98	4.99	5.03	5.04	5.12	5.14	5.16	5.18	5.22
1974	5.24	5.28	5.30	5.33	5.34	5.40	5.44	5.42	5.52	5.59	5.60	5.64
1975	5.67	5.70	5.76	5.77	5.81	5.87	5.91	6.01	6.05	6.10	6.17	6.17
1976	6.23	6.29	6.33	6.38	6.44	6.47	6.49	6.51	6.54	6.58	6.62	6.65
1977	6.70	6.74	6.76	6.83	6.88	6.88	7.00	6.93	-	-	-	-
WHOLESALE AND RETAIL TRADE												
1972	2.96	2.96	2.97	2.99	2.98	3.00	3.01	3.02	3.04	3.06	3.06	3.08
1973	3.09	3.11	3.13	3.16	3.16	3.18	3.20	3.22	3.25	3.26	3.28	3.31
1974	3.32	3.33	3.36	3.38	3.42	3.46	3.48	3.51	3.54	3.56	3.58	3.60
1975	3.63	3.66	3.67	3.69	3.71	3.73	3.76	3.79	3.79	3.81	3.83	3.84
1976	3.87	3.88	3.90	3.91	3.94	3.95	3.98	4.00	4.03	4.05	4.08	4.11
1977	4.15	4.17	4.20	4.23	4.24	4.26	4.30	4.31	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

ESTABLISHMENT DATA

E. AVERAGE HOURLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS¹ ON PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE--CONTINUED (IN DOLLARS)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
FINANCE, INSURANCE, REAL ESTATE												
1972	3.37	3.35	3.37	3.42	3.41	3.41	3.44	3.43	3.45	3.47	3.47	3.49
1973	3.51	3.51	3.52	3.55	3.55	3.56	3.59	3.59	3.63	3.62	3.66	3.68
1974	3.69	3.69	3.71	3.72	3.75	3.82	3.81	3.85	3.92	3.92	3.94	3.98
1975	3.98	4.02	4.08	4.08	4.10	4.16	4.14	4.17	4.16	4.19	4.27	4.23
1976	4.25	4.30	4.30	4.33	4.35	4.34	4.37	4.41	4.39	4.43	4.43	4.43
1977	4.52	4.48	4.50	4.53	4.56	4.54	4.60	4.61	-	-	-	-
SERVICES												
1972	3.14	3.15	3.17	3.20	3.20	3.20	3.22	3.24	3.27	3.30	3.31	3.33
1973	3.34	3.34	3.37	3.40	3.41	3.44	3.48	3.48	3.52	3.54	3.55	3.59
1974	3.61	3.63	3.66	3.69	3.73	3.78	3.77	3.81	3.83	3.86	3.88	3.90
1975	3.92	3.97	3.99	3.99	4.00	4.03	4.07	4.09	4.11	4.15	4.20	4.21
1976	4.24	4.26	4.27	4.30	4.33	4.35	4.36	4.39	4.40	4.44	4.48	4.50
1977	4.58	4.58	4.61	4.64	4.66	4.67	4.72	4.76	-	-	-	-

¹ SEE FOOTNOTE 1, TABLE B.

F. INDICES OF AGGREGATE HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS¹ ON PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE (1967=100)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
TOTAL PRIVATE												
1972	105.9	106.3	106.9	107.6	107.7	108.4	108.2	108.5	108.8	109.7	109.9	110.0
1973	110.6	111.9	112.4	112.6	112.9	113.2	113.3	113.1	113.4	113.5	114.3	114.1
1974	113.5	113.9	113.6	113.0	113.9	113.9	113.8	113.5	113.3	112.8	111.1	109.9
1975	108.8	107.0	106.0	105.9	106.3	106.2	106.6	107.7	108.3	108.9	109.2	109.9
1976	110.8	111.1	110.9	111.4	111.9	111.7	111.9	111.9	112.2	112.3	112.8	113.3
1977	112.3	114.2	115.0	115.4	115.9	115.8	115.8	115.6	-	-	-	-
GOODS-PRODUCING												
1972	97.6	98.1	98.6	99.5	99.6	100.3	99.7	100.4	100.8	102.1	102.5	101.8
1973	102.6	104.8	105.5	105.8	106.0	106.2	106.2	105.7	106.1	106.3	107.4	107.4
1974	106.0	106.5	105.8	103.2	105.2	104.9	104.4	103.8	103.1	102.6	99.1	96.5
1975	94.2	90.7	88.6	89.2	89.5	89.2	89.7	91.4	92.7	93.1	93.4	94.8
1976	96.1	96.2	95.9	95.5	96.9	96.8	96.4	95.7	95.9	96.1	97.1	97.0
1977	95.2	98.6	100.1	100.8	101.4	101.8	101.4	100.6	-	-	-	-
MINING												
1972	101.3	100.2	101.7	100.0	99.7	99.9	99.5	100.4	101.0	101.0	100.6	98.7
1973	99.1	100.0	100.0	100.9	101.8	103.2	104.4	105.6	106.0	105.7	107.5	110.3
1974	109.9	111.5	111.2	112.8	113.9	114.3	114.5	114.7	115.5	117.9	98.7	105.4
1975	117.7	117.2	116.3	114.4	120.0	118.9	119.3	119.4	119.6	122.8	123.3	124.6
1976	125.8	125.0	125.2	125.6	125.0	125.3	127.5	115.6	131.4	131.1	132.6	133.7
1977	131.3	134.3	140.6	141.6	140.6	142.3	139.9	134.7	-	-	-	-
CONTRACT CONSTRUCTION												
1972	116.5	113.3	113.7	113.6	114.0	114.9	113.7	115.7	116.1	117.4	113.7	107.5
1973	113.0	114.7	117.9	118.1	120.2	121.7	122.8	121.5	121.4	119.9	123.8	121.7
1974	118.2	124.8	121.9	118.5	118.7	118.1	116.0	115.7	114.7	114.7	112.4	111.4
1975	110.1	103.7	94.9	99.0	99.3	95.9	97.8	100.1	101.3	100.5	101.6	103.3
1976	104.8	104.1	99.7	104.8	103.6	104.5	103.8	102.8	100.2	104.2	104.9	104.0
1977	95.9	105.8	108.7	111.7	112.4	111.8	112.8	110.8	-	-	-	-
MANUFACTURING												
1972	94.1	95.3	95.8	97.1	97.0	97.7	97.3	97.7	98.1	99.5	100.6	100.9
1973	100.9	103.3	103.5	103.9	103.7	103.6	103.4	103.0	103.4	103.9	104.6	104.8
1974	103.7	103.1	102.8	100.2	102.6	102.3	102.1	101.4	100.7	100.0	96.7	93.5
1975	90.6	87.5	86.5	86.7	86.7	87.0	87.3	88.9	90.3	90.7	90.9	92.3
1976	93.5	93.8	94.2	92.8	94.7	94.5	94.1	93.7	93.9	93.5	94.5	94.5
1977	93.9	96.1	97.2	97.5	98.1	98.7	98.0	97.6	-	-	-	-
DURABLE GOODS												
1972	91.2	92.8	93.5	94.9	95.1	95.7	95.6	96.2	96.6	98.6	100.2	100.8
1973	101.7	104.1	104.2	104.7	104.8	104.7	104.8	104.3	105.0	105.6	106.1	106.4
1974	104.8	104.0	103.8	101.1	103.8	103.8	103.6	102.8	102.3	101.9	98.3	94.8
1975	91.6	88.0	86.8	86.4	85.6	85.3	85.2	86.6	87.9	88.0	88.1	89.8
1976	91.1	91.6	92.3	90.9	93.7	93.7	93.4	93.3	93.0	92.5	93.8	93.7
1977	93.2	95.2	96.8	96.9	97.8	98.7	98.3	98.1	-	-	-	-
ORDNANCE AND ACCESSORIES												
1972	50.5	50.3	50.1	51.4	51.9	52.8	53.9	55.2	52.0	52.8	56.6	56.1
1973	56.1	56.5	56.1	54.5	53.2	52.4	53.3	51.7	52.0	51.3	49.1	50.6
1974	49.6	49.2	49.9	48.2	48.2	47.7	47.5	48.2	49.1	49.0	48.9	48.8
1975	48.9	48.4	47.7	47.2	46.9	46.8	44.6	43.9	43.6	42.8	41.1	42.0
1976	41.6	41.1	41.1	39.8	40.4	40.6	39.9	39.8	38.7	39.2	39.1	39.4
1977	39.1	39.3	39.2	40.1	40.7	41.0	40.5	39.3	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

ESTABLISHMENT DATA

F. INDEXES OF AGGREGATE HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS¹ ON PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE--CONTINUED (1967=100)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
LUMBER AND WOOD PRODUCTS												
1972	102.9	102.5	103.3	104.6	104.7	105.8	106.2	106.1	106.8	107.0	108.2	104.7
1973	105.0	107.0	109.0	108.6	108.4	108.9	107.5	107.9	108.2	108.2	108.0	109.7
1974	108.5	108.3	108.4	107.2	106.7	104.4	103.2	101.2	98.2	94.3	90.1	86.9
1975	83.6	81.9	81.8	82.5	84.6	86.0	86.9	88.5	89.9	91.5	91.4	93.2
1976	97.2	95.7	95.6	95.6	96.6	96.3	98.6	97.6	98.2	99.6	101.2	101.9
1977	101.4	103.0	103.6	103.5	104.1	104.0	105.3	104.0	-	-	-	-
FURNITURE AND FIXTURES												
1972	106.5	108.1	108.9	110.2	110.0	111.0	112.1	112.4	112.4	113.7	115.0	115.0
1973	112.6	117.7	118.8	118.5	117.9	118.1	116.8	116.5	114.8	115.4	115.9	116.2
1974	115.7	114.3	113.8	111.5	113.0	112.7	111.9	109.5	107.4	104.8	98.4	94.6
1975	87.8	84.9	84.1	86.2	87.7	87.7	89.6	92.9	96.4	97.4	98.9	100.5
1976	101.5	103.1	103.3	102.5	104.8	103.5	102.5	101.5	101.4	102.2	103.0	103.3
1977	98.7	103.2	105.3	106.1	107.1	107.9	108.4	107.2	-	-	-	-
STONE, CLAY, AND GLASS PRODUCTS												
1972	103.8	104.2	104.6	105.5	105.5	106.4	106.4	106.6	106.8	108.1	107.9	107.2
1973	107.0	111.0	111.4	112.4	112.3	112.4	112.6	111.9	112.5	112.7	113.6	115.2
1974	113.6	114.2	113.9	111.6	112.2	111.0	110.9	110.5	108.4	106.8	104.8	102.1
1975	98.7	94.5	92.0	92.8	92.6	92.6	92.9	94.3	95.4	95.4	96.0	96.9
1976	97.9	97.4	96.5	98.4	99.1	99.5	99.0	98.6	98.8	99.5	100.2	99.3
1977	96.6	97.4	101.7	103.9	104.2	105.4	104.9	104.1	-	-	-	-
PRIMARY METAL INDUSTRIES												
1972	87.9	89.7	92.0	92.8	93.8	93.9	93.5	95.3	96.5	98.3	100.2	99.9
1973	101.1	102.2	101.4	102.1	102.3	102.4	103.0	103.0	105.2	106.2	108.8	106.1
1974	104.8	103.4	102.9	102.3	103.1	103.3	103.1	102.8	104.4	104.2	101.7	97.7
1975	94.6	90.5	87.5	84.8	82.5	81.1	79.8	81.2	83.2	81.6	82.1	83.2
1976	84.0	84.9	86.0	86.6	87.9	89.0	89.4	89.1	88.9	86.4	86.2	85.4
1977	85.2	85.9	88.6	89.7	90.7	90.9	89.0	88.2	-	-	-	-
FABRICATED METAL PRODUCTS												
1972	95.8	97.5	98.1	99.3	99.9	100.8	100.7	101.5	101.5	103.0	104.5	105.4
1973	106.5	109.3	109.5	110.1	110.5	110.6	110.7	109.7	109.4	110.6	112.1	111.7
1974	110.5	110.3	110.0	105.3	109.4	109.5	109.6	108.9	107.7	106.3	103.2	99.5
1975	94.7	91.9	90.1	89.9	89.1	88.8	87.4	90.5	91.6	92.9	93.1	94.5
1976	95.4	96.8	97.2	94.9	98.5	98.4	98.0	98.2	98.1	96.9	98.3	98.3
1977	97.3	100.3	101.7	101.3	102.8	104.2	103.7	103.3	-	-	-	-
MACHINERY, EXC. ELECTRICAL												
1972	83.7	85.7	86.0	87.8	89.3	90.5	91.0	91.6	92.3	94.2	95.6	97.2
1973	98.2	100.0	101.1	101.7	103.1	103.6	103.4	104.6	105.8	106.0	105.9	108.6
1974	107.9	107.8	108.9	104.6	108.8	109.7	108.9	110.1	109.7	110.7	108.1	105.9
1975	103.6	100.4	98.3	96.6	93.5	91.8	90.9	91.0	91.6	92.0	91.4	91.8
1976	92.7	92.9	93.3	92.0	94.7	94.9	96.1	95.6	95.6	94.6	96.2	96.0
1977	95.2	97.9	98.7	98.8	100.2	101.6	103.2	103.5	-	-	-	-
ELECTRICAL EQUIPMENT AND SUPPLIES												
1972	90.2	91.9	92.1	93.3	93.4	94.4	94.4	95.4	95.7	98.1	99.3	100.4
1973	101.5	103.8	104.5	104.8	105.6	105.1	106.3	105.8	106.0	106.9	107.6	108.3
1974	107.2	106.9	106.7	103.1	105.5	105.4	105.5	101.0	102.0	100.9	96.6	92.6
1975	89.8	85.2	84.3	83.3	82.2	81.9	82.1	84.1	84.5	85.7	85.5	87.3
1976	88.7	89.1	90.4	89.2	92.0	91.8	91.2	92.1	91.1	92.4	93.0	93.3
1977	91.9	95.6	96.1	96.3	97.2	97.9	98.3	98.3	-	-	-	-
TRANSPORTATION EQUIPMENT												
1972	89.7	92.3	92.8	94.8	93.4	92.2	90.9	90.4	91.3	95.1	97.5	99.6
1973	101.8	105.0	102.7	104.4	102.1	101.4	101.0	98.5	99.6	100.4	98.9	98.0
1974	93.3	90.0	88.6	87.3	92.1	92.0	92.9	93.0	92.7	94.5	89.2	84.2
1975	81.2	76.5	77.9	79.0	80.0	81.1	82.2	82.9	84.8	83.0	83.3	87.4
1976	89.1	90.1	91.6	86.8	92.0	91.9	89.5	90.2	89.4	87.4	91.4	90.8
1977	93.4	92.9	96.4	94.7	95.3	96.5	94.8	95.4	-	-	-	-
INSTRUMENTS AND RELATED PRODUCTS												
1972	92.3	93.1	93.0	94.7	95.4	96.8	96.6	97.8	98.5	99.6	100.6	100.8
1973	102.2	104.3	105.4	104.6	107.1	107.2	107.2	108.1	108.8	109.5	110.9	111.9
1974	111.1	112.4	112.8	110.5	112.7	114.0	112.9	113.4	111.8	110.9	108.9	106.3
1975	104.4	100.7	98.3	98.4	97.1	97.0	97.8	97.6	99.4	101.1	101.7	103.1
1976	104.4	105.4	106.3	105.9	109.6	109.1	109.6	108.5	107.2	108.2	108.8	110.4
1977	108.7	112.7	111.6	111.7	112.3	113.2	111.7	111.3	-	-	-	-
MISCELLANEOUS MANUFACTURING INDUSTRIES												
1972	96.1	98.1	98.1	99.5	98.6	100.1	98.7	100.4	100.1	101.0	102.8	102.9
1973	101.8	104.0	104.0	103.5	102.6	102.6	102.7	102.1	101.7	102.4	103.8	104.7
1974	104.5	104.1	104.4	101.4	104.4	104.4	103.8	102.7	100.1	98.4	94.9	92.0
1975	89.4	87.0	85.1	86.0	86.2	86.8	87.9	89.0	90.3	91.3	91.1	92.7
1976	94.1	94.0	94.9	93.1	95.4	94.9	93.1	91.8	91.3	92.0	91.9	93.0
1977	92.5	96.5	95.5	95.0	94.7	94.6	91.4	91.3	-	-	-	-
NONDURABLE GOODS												
1972	98.4	99.0	99.3	100.2	99.8	100.6	99.7	100.0	100.1	100.7	101.3	101.1
1973	99.9	102.1	102.6	102.7	102.0	102.0	101.3	101.1	101.1	101.4	102.3	102.4
1974	102.2	101.9	101.3	98.9	100.7	100.1	99.7	99.3	98.3	97.2	94.4	91.6
1975	89.2	86.6	86.1	87.0	88.4	89.4	90.3	92.3	93.8	94.7	95.0	96.0
1976	97.1	96.9	97.0	95.7	96.3	95.5	95.1	94.3	95.2	95.1	95.6	95.7
1977	94.9	97.3	97.7	98.5	98.5	98.7	97.7	96.9	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

ESTABLISHMENT DATA

F. INDICES OF AGGREGATE HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS¹ ON PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE--CONTINUED
(1967=100)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
FOOD AND KINDRED PRODUCTS												
1972	97.1	96.8	98.1	98.8	97.8	100.0	98.5	96.9	96.7	97.0	96.6	96.7
1973	96.4	97.0	96.9	96.5	96.4	96.4	95.9	94.4	95.3	96.8	98.4	99.2
1974	99.2	98.8	99.1	96.3	98.0	97.0	95.8	96.3	96.0	95.9	94.7	94.2
1975	92.6	92.0	93.0	92.5	92.9	93.3	93.7	95.9	96.7	96.2	95.2	95.8
1976	96.7	96.8	95.9	95.9	96.6	96.6	97.0	96.5	96.2	96.4	96.6	95.8
1977	94.9	97.5	97.8	98.5	97.3	97.3	95.9	94.5	-	-	-	-
TOBACCO MANUFACTURES												
1972	79.7	80.1	82.1	82.5	82.7	84.5	84.5	81.2	78.2	77.6	78.8	82.3
1973	79.2	85.8	88.5	89.5	89.6	89.9	85.4	88.3	87.6	89.5	93.9	91.0
1974	92.2	90.6	87.3	89.4	89.9	86.4	88.3	87.1	88.5	86.7	81.8	85.2
1975	86.9	86.0	85.8	83.6	81.8	87.1	83.5	86.3	88.3	85.8	91.1	86.5
1976	89.3	87.4	84.5	84.9	84.9	82.7	84.7	84.4	82.1	83.0	80.1	81.6
1977	76.1	82.4	75.1	80.5	78.2	80.2	77.2	71.7	-	-	-	-
TEXTILE MILL PRODUCTS												
1972	101.8	102.1	102.9	103.4	103.4	103.6	103.5	103.7	103.8	105.1	106.4	107.0
1973	102.6	107.0	107.9	108.2	106.3	106.0	105.6	105.5	105.3	104.9	105.8	106.0
1974	105.8	104.5	103.4	99.5	101.5	101.4	100.5	98.2	96.3	92.3	88.5	83.1
1975	78.5	75.9	77.3	81.3	85.5	87.2	88.9	92.8	95.4	97.7	98.1	98.7
1976	100.4	99.1	99.1	95.6	99.3	98.0	97.2	95.7	94.9	95.2	96.0	96.6
1977	96.7	98.1	99.4	99.6	100.2	99.7	99.9	98.9	-	-	-	-
APPAREL AND OTHER TEXTILE PRODUCTS												
1972	96.0	97.2	96.1	97.2	96.0	96.2	94.5	96.8	97.2	98.1	98.9	97.9
1973	95.0	99.3	100.4	100.3	99.4	99.1	96.1	97.7	97.4	97.3	97.4	97.4
1974	96.2	96.1	94.4	91.9	94.6	91.7	92.8	91.9	91.1	90.2	86.5	82.1
1975	79.9	77.2	76.3	78.9	80.2	82.3	83.8	85.5	87.8	89.5	90.3	91.8
1976	92.8	91.9	92.4	89.3	91.4	90.9	88.9	87.9	86.5	85.9	86.5	86.3
1977	84.1	87.9	88.1	87.7	88.6	89.8	87.6	87.8	-	-	-	-
PAPER AND ALLIED PRODUCTS												
1972	97.8	99.0	99.4	100.8	101.1	101.5	101.5	101.8	101.5	101.7	102.6	102.4
1973	101.3	103.5	103.9	103.3	103.6	103.3	103.0	102.6	103.0	103.3	103.8	103.5
1974	104.5	103.7	103.7	102.0	102.8	102.4	102.4	101.1	100.3	98.4	95.7	93.7
1975	90.8	87.4	85.6	84.9	85.9	86.6	87.8	89.6	90.7	92.0	92.6	94.2
1976	95.2	96.0	96.3	95.7	97.7	97.2	96.9	96.1	96.3	96.1	97.2	97.2
1977	96.2	98.2	98.6	100.8	100.4	101.1	100.3	99.4	-	-	-	-
PRINTING AND PUBLISHING												
1972	96.9	97.3	97.9	99.1	98.3	98.7	98.8	98.7	99.5	99.3	99.8	98.5
1973	99.2	100.0	100.6	100.6	100.1	100.2	99.9	99.4	99.7	99.9	100.2	100.0
1974	100.0	100.5	99.8	98.0	99.9	100.3	99.9	100.5	99.4	99.2	97.3	96.7
1975	96.5	94.6	93.9	92.9	92.2	91.8	91.2	92.1	92.0	91.7	92.2	93.1
1976	93.4	92.4	92.7	92.3	93.5	93.1	93.6	92.9	93.2	93.2	93.6	93.7
1977	93.4	94.6	94.5	95.2	95.1	95.3	95.6	95.1	-	-	-	-
CHEMICALS AND ALLIED PRODUCTS												
1972	98.3	98.3	98.3	98.5	98.7	99.4	98.6	98.6	99.6	100.2	100.6	101.2
1973	100.5	101.2	101.5	101.7	102.2	102.5	103.2	102.7	102.3	103.0	103.2	103.3
1974	103.7	103.9	103.8	103.7	103.8	104.4	104.6	104.9	104.1	103.7	102.0	99.2
1975	96.6	94.8	92.6	91.6	92.7	93.2	93.4	94.5	95.4	97.0	97.2	97.9
1976	98.5	99.3	99.4	99.7	99.9	99.1	99.4	99.7	100.3	99.4	100.1	100.1
1977	100.7	101.6	102.2	102.9	103.3	103.8	103.7	103.4	-	-	-	-
PETROLEUM AND COAL PRODUCTS												
1972	100.8	104.4	103.8	105.4	103.5	103.8	102.8	104.2	104.6	105.5	105.3	104.8
1973	104.8	102.8	103.9	103.3	102.9	104.5	107.1	107.5	107.7	107.2	109.7	108.4
1974	109.8	110.0	109.4	110.0	110.4	110.9	110.1	108.5	109.0	110.6	109.6	108.7
1975	102.6	100.0	103.8	101.4	104.4	105.6	107.5	107.8	108.9	110.2	111.6	111.1
1976	113.6	114.8	113.9	114.8	113.0	111.9	111.9	112.4	113.0	112.8	113.4	114.4
1977	115.0	114.4	118.4	119.6	119.3	121.6	119.9	120.4	-	-	-	-
RUBBER AND PLASTICS PRODUCTS, NEC												
1972	115.5	117.3	118.8	120.7	121.7	122.7	121.6	122.5	122.7	125.0	128.1	129.2
1973	130.4	133.3	134.4	135.7	133.6	134.0	135.0	133.1	131.5	131.7	134.6	135.0
1974	134.1	134.1	133.2	128.2	132.4	134.1	132.9	133.6	131.2	130.6	123.1	117.1
1975	113.2	104.6	101.0	103.8	105.8	105.9	107.4	110.1	111.8	112.5	113.3	115.9
1976	118.0	119.6	122.7	120.8	108.5	107.2	106.0	105.2	123.6	124.3	125.7	127.8
1977	128.0	131.8	132.9	134.8	135.3	133.9	132.5	129.7	-	-	-	-
LEATHER AND LEATHER PRODUCTS												
1972	85.7	86.8	85.7	86.5	87.0	86.7	86.1	87.3	85.8	84.1	83.2	80.4
1973	82.1	81.9	81.9	82.5	81.8	82.0	80.6	81.3	81.2	80.6	80.8	80.2
1974	79.0	79.1	79.6	77.4	77.9	77.7	76.6	76.2	74.4	73.3	73.0	70.3
1975	67.8	64.4	62.4	65.2	66.9	69.6	71.4	72.5	74.9	77.0	77.4	78.1
1976	79.5	79.4	79.2	77.9	79.4	76.0	74.7	73.0	72.6	71.3	70.7	70.7
1977	69.1	72.1	71.8	73.4	73.3	72.9	69.9	71.8	-	-	-	-
SERVICE-PRODUCING												
1972	111.8	112.0	112.6	113.2	113.3	114.0	114.0	114.1	114.4	114.9	115.1	115.7
1973	116.1	116.7	117.1	117.4	117.6	118.1	118.2	118.2	118.5	118.5	119.1	118.8
1974	118.7	119.1	119.1	119.7	119.9	120.1	120.2	120.2	120.3	119.9	119.4	119.3
1975	118.9	118.3	118.0	117.5	117.9	118.0	118.2	118.9	119.2	119.9	120.2	120.4
1976	121.0	121.5	121.3	122.4	122.4	122.0	122.6	123.1	123.5	123.5	123.7	124.7
1977	124.1	125.0	125.3	125.5	125.9	125.6	125.8	126.1	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

ESTABLISHMENT DATA

F. INDICES OF AGGREGATE HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS¹ ON PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE--CONTINUED (1967=100)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
TRANSPORTATION AND PUBLIC UTILITIES												
1972	103.4	103.7	105.3	104.7	105.4	105.6	105.0	105.7	105.5	106.1	107.1	107.5
1973	107.4	107.2	107.5	107.9	108.8	108.8	108.7	109.1	108.7	109.5	109.3	108.5
1974	109.6	109.1	108.6	109.7	110.0	108.6	109.5	108.7	108.0	107.7	106.8	106.1
1975	105.0	103.2	101.8	101.9	100.7	100.8	100.7	100.6	101.1	101.2	101.4	101.6
1976	101.3	102.3	102.4	102.5	101.8	101.7	102.1	102.6	102.8	102.0	103.3	104.9
1977	102.7	104.4	104.1	103.8	104.6	104.1	103.1	103.5	-	-	-	-
WHOLESALE AND RETAIL TRADE												
1972	110.5	110.9	111.5	112.0	111.9	113.0	112.5	112.7	113.1	113.4	113.8	114.7
1973	115.1	115.8	116.1	115.9	116.0	116.6	116.4	115.7	116.4	116.1	116.9	116.3
1974	116.0	116.1	115.9	116.8	116.6	116.7	116.9	116.9	116.7	116.1	115.5	114.9
1975	114.2	113.6	114.0	113.2	113.7	113.9	114.3	115.1	115.3	115.9	116.1	116.7
1976	117.7	117.9	117.5	119.4	118.9	118.2	119.1	119.1	119.7	119.4	119.1	120.3
1977	119.4	120.3	120.7	121.0	121.4	121.2	121.6	121.6	-	-	-	-
WHOLESALE TRADE												
1972	107.3	108.2	108.8	109.0	109.6	110.1	110.1	110.0	110.8	110.7	110.9	111.4
1973	111.8	112.6	113.0	112.7	112.7	113.1	113.2	113.6	113.7	113.7	114.8	114.1
1974	114.4	114.3	114.1	114.1	114.7	115.0	115.0	114.6	114.5	114.3	114.0	113.5
1975	112.9	112.0	111.6	111.1	111.3	110.6	110.8	111.1	111.3	112.0	111.6	112.4
1976	113.2	113.4	113.2	113.9	114.4	114.1	115.4	114.9	114.9	114.7	114.8	114.8
1977	115.4	117.1	116.9	117.3	117.3	117.3	117.5	117.5	-	-	-	-
RETAIL TRADE												
1972	111.7	111.9	112.5	113.1	112.8	114.1	113.5	113.7	113.9	114.4	114.8	115.9
1973	116.3	117.0	117.3	117.1	117.2	117.9	117.5	116.5	117.3	116.9	117.7	117.1
1974	116.6	116.8	116.6	117.8	117.3	117.3	117.6	117.8	117.5	116.8	116.1	115.4
1975	114.7	114.2	114.8	114.0	114.5	115.2	115.6	116.6	116.8	117.4	117.8	118.3
1976	119.3	119.5	119.1	121.4	120.6	119.7	120.4	120.7	121.6	121.1	120.7	122.3
1977	120.8	121.6	122.1	122.4	123.0	122.7	123.1	123.1	-	-	-	-
FINANCE, INSURANCE, REAL ESTATE												
1972	119.3	118.9	119.2	120.0	119.9	120.8	120.8	120.9	121.0	121.9	121.3	121.9
1973	121.7	122.7	122.5	123.2	122.9	123.3	124.2	123.9	124.8	124.3	124.3	124.9
1974	124.3	124.9	125.0	124.8	125.1	125.3	125.0	125.3	125.8	125.0	125.1	125.0
1975	125.0	124.2	123.5	122.1	123.0	123.3	122.5	123.0	123.3	123.7	125.1	124.3
1976	124.9	125.4	125.3	126.1	126.3	126.4	126.7	127.4	127.7	128.3	129.1	129.6
1977	130.1	130.2	131.0	131.0	131.6	131.7	132.3	132.7	-	-	-	-
SERVICES												
1972	115.1	115.4	115.6	116.6	116.8	117.4	118.2	118.1	118.5	119.0	118.7	119.2
1973	120.0	120.6	121.4	122.0	122.3	122.9	123.2	124.0	124.2	124.3	125.1	125.2
1974	124.9	126.1	126.4	126.8	127.3	128.4	128.4	128.6	129.4	129.1	128.9	129.7
1975	129.9	129.9	129.5	129.3	130.0	130.0	130.4	131.4	131.6	132.6	132.9	133.0
1976	133.6	134.2	133.9	134.6	135.4	135.1	135.5	136.6	137.0	137.6	137.7	138.3
1977	138.8	139.3	139.8	140.1	140.3	139.6	140.1	140.6	-	-	-	-

¹ SEE FOOTNOTE 1, TABLE B.

G. EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS¹ ON TOTAL PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
GROSS AVERAGE HOURLY EARNINGS - CURRENT DOLLARS												
1972	3.58	3.59	3.61	3.64	3.64	3.65	3.66	3.69	3.71	3.74	3.75	3.77
1973	3.80	3.81	3.83	3.87	3.88	3.90	3.93	3.95	3.98	4.00	4.02	4.04
1974	4.05	4.08	4.10	4.12	4.17	4.22	4.24	4.27	4.31	4.35	4.36	4.38
1975	4.41	4.43	4.45	4.47	4.49	4.52	4.55	4.58	4.60	4.63	4.67	4.69
1976	4.72	4.75	4.77	4.79	4.83	4.85	4.88	4.90	4.93	4.96	5.00	5.02
1977	5.07	5.10	5.13	5.17	5.20	5.22	5.27	5.28	-	-	-	-
GROSS AVERAGE HOURLY EARNINGS - 1967 DOLLARS												
1972	2.90	2.90	2.91	2.93	2.92	2.92	2.92	2.94	2.94	2.96	2.96	2.96
1973	2.97	2.96	2.95	2.96	2.95	2.95	2.96	2.93	2.94	2.93	2.92	2.92
1974	2.89	2.88	2.86	2.86	2.86	2.87	2.87	2.85	2.84	2.85	2.83	2.82
1975	2.82	2.81	2.82	2.81	2.82	2.81	2.81	2.81	2.82	2.82	2.83	2.82
1976	2.82	2.84	2.84	2.84	2.85	2.85	2.85	2.85	2.86	2.87	2.88	2.88
1977	2.89	2.88	2.88	2.88	2.87	2.87	2.89	2.88	-	-	-	-
GROSS AVERAGE WEEKLY EARNINGS - CURRENT DOLLARS												
1972	132.82	133.55	133.93	135.41	135.04	135.78	135.79	136.90	138.01	139.13	139.13	139.49
1973	140.60	141.35	142.48	143.96	143.95	144.69	145.80	146.15	147.26	147.60	148.74	149.08
1974	148.64	150.14	150.88	150.38	153.04	154.87	155.61	156.28	157.75	158.78	157.83	158.56
1975	159.64	159.48	159.76	160.47	161.64	162.72	163.80	165.34	166.52	167.61	169.05	170.25
1976	171.81	172.90	172.20	172.92	175.33	175.09	176.17	176.89	177.48	179.55	181.00	181.72
1977	181.51	184.62	185.71	187.15	188.76	188.96	190.25	190.08	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

ESTABLISHMENT DATA

G. EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS¹ ON TOTAL PRIVATE NONAGRICULTURAL PAYROLLS, SEASONALLY ADJUSTED, 1972 TO DATE--CONTINUED

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
GROSS AVERAGE WEEKLY EARNINGS - 1967 DOLLARS												
1972	107.63	107.79	107.92	108.85	108.29	108.71	108.29	109.00	109.44	109.98	109.64	109.66
1973	109.93	109.74	109.68	109.98	109.38	109.28	109.95	108.34	108.76	108.21	108.17	107.64
1974	106.25	106.03	105.36	104.43	105.11	105.43	105.21	104.33	104.13	103.91	102.42	102.10
1975	102.01	101.32	101.11	101.05	101.34	101.26	100.99	101.62	101.91	101.95	102.27	102.50
1976	102.82	103.35	102.68	102.68	103.44	102.87	103.02	102.96	102.95	103.79	104.32	104.32
1977	103.37	104.13	104.10	104.09	104.34	103.88	104.19	103.76	-	-	-	-
SPENDABLE AVERAGE WEEKLY EARNINGS² - CURRENT DOLLARS												
1972	118.46	119.04	119.34	120.50	120.21	120.79	120.80	121.68	122.55	123.43	123.43	123.72
1973	123.68	124.26	125.13	126.28	126.27	126.84	127.69	127.96	128.82	129.08	129.96	130.23
1974	129.89	131.04	131.61	131.23	133.28	134.69	135.26	135.78	136.91	137.71	136.98	137.54
1975	138.38	138.25	138.47	139.00	146.35	147.20	148.04	149.24	150.17	151.02	152.12	153.04
1976	153.07	153.91	153.37	153.93	155.78	155.60	156.41	156.95	157.40	158.95	160.04	160.58
1977	160.42	162.76	163.58	164.66	165.87	172.67	173.69	173.55	-	-	-	-
SPENDABLE AVERAGE WEEKLY EARNINGS² - 1967 DOLLARS												
1972	96.00	96.08	96.16	96.86	96.40	96.71	96.33	96.88	97.18	97.57	97.27	97.26
1973	96.70	96.48	96.33	96.47	95.95	95.80	96.30	94.86	95.14	94.63	94.52	94.03
1974	92.84	92.54	91.91	91.13	91.54	91.69	91.45	90.64	90.37	90.12	88.89	88.56
1975	88.42	87.83	87.64	87.53	91.76	91.60	91.27	91.73	91.90	91.86	92.03	92.14
1976	91.60	92.00	91.45	91.41	91.91	91.42	91.47	91.36	91.30	91.88	92.24	92.18
1977	91.36	91.80	91.69	91.58	91.69	94.93	95.12	94.73	-	-	-	-

¹ SEE FOOTNOTE 1, TABLE B.

² CALCULATED FOR MARRIED WORKERS WITH 3 DEPENDENTS WHO EARNED THE AVERAGE WEEKLY EARNINGS.

H. LABOR TURNOVER RATES IN MANUFACTURING, SEASONALLY ADJUSTED, 1972 TO DATE (PER 100 EMPLOYEES)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
TOTAL ACCESSIONS												
1972	4.3	4.3	4.4	4.3	4.4	4.2	4.3	4.4	4.4	4.6	4.6	4.9
1973	5.0	5.1	5.0	4.8	4.7	4.6	4.6	4.6	4.7	4.8	4.9	4.7
1974	4.7	4.6	4.5	4.5	4.6	4.3	4.2	4.1	3.9	3.6	3.1	3.1
1975	3.1	3.2	3.2	3.7	3.6	3.7	4.0	4.0	3.8	3.7	3.8	3.9
1976	4.1	4.2	4.3	4.1	4.0	3.8	3.8	3.8	3.7	3.6	3.9	4.1
1977	4.0	4.6	4.2	4.0	4.1	3.9	3.8	3.8	-	-	-	-
NEW-HIRES												
1972	3.0	3.0	3.1	3.2	3.2	3.1	3.2	3.2	3.4	3.5	3.7	3.8
1973	4.0	4.2	4.1	3.9	3.9	3.8	3.7	3.7	3.7	3.8	3.9	3.8
1974	3.8	3.6	3.6	3.5	3.5	3.3	3.2	3.1	2.9	2.6	2.2	1.9
1975	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.2	2.2	2.3	2.5
1976	2.6	2.8	2.9	2.8	2.7	2.7	2.5	2.5	2.4	2.4	2.5	2.6
1977	2.7	2.9	3.0	3.0	3.0	2.8	2.7	2.7	-	-	-	-
TOTAL SEPARATIONS												
1972	4.2	4.1	4.0	4.3	4.2	4.5	4.4	4.1	4.0	4.2	4.2	4.4
1973	4.5	4.6	4.6	4.5	4.6	4.6	4.7	4.6	4.4	4.6	4.7	4.9
1974	4.9	4.9	4.9	4.8	4.6	4.6	4.5	4.6	4.5	4.8	5.1	5.0
1975	5.2	5.0	4.6	4.5	4.6	4.3	3.9	3.9	3.8	3.8	3.8	3.6
1976	3.5	3.6	3.9	3.9	3.8	3.9	3.9	4.0	3.9	3.9	3.6	3.7
1977	3.8	4.1	3.8	3.8	3.8	3.8	3.9	3.9	-	-	-	-
QUITS												
1972	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.6
1973	2.7	2.9	2.8	2.8	2.7	2.7	2.8	2.7	2.6	2.8	2.8	2.8
1974	2.7	2.7	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.0	1.8	1.6
1975	1.4	1.3	1.2	1.2	1.3	1.3	1.4	1.4	1.3	1.5	1.6	1.6
1976	1.6	1.7	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.7
1977	1.8	1.9	1.9	1.9	1.9	1.8	1.8	1.8	-	-	-	-
LAYOFFS												
1972	1.2	1.2	1.1	1.2	1.1	1.4	1.3	1.1	1.0	1.0	.9	.9
1973	.8	.7	.8	.8	.8	.8	.8	1.1	.9	.8	.9	1.1
1974	1.3	1.2	1.1	1.1	1.1	1.2	1.2	1.4	1.4	1.9	2.4	2.5
1975	2.9	2.9	2.6	2.5	2.5	2.2	1.7	1.7	1.7	1.6	1.5	1.3
1976	1.1	1.0	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.3	1.2
1977	1.2	1.4	1.1	1.1	1.1	1.2	1.3	1.3	-	-	-	-

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 August 1977. The factors should be used with current estimates (adjusted to the March 1974 benchmarks) beginning September 1977 for all series shown in the following table.

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.

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

Industry	1977				1978							
	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.
TOTAL ¹												
MINING	100.7	100.5	100.2	99.5	98.6	98.0	98.3	99.0	99.9	101.7	101.8	101.8
CONTRACT CONSTRUCTION	106.8	106.4	103.7	98.4	90.1	88.8	91.8	96.1	100.0	104.1	106.0	108.0
MANUFACTURING ¹												
DURABLE GOODS ¹												
Ordnance and accessories	100.5	100.1	99.8	100.5	100.6	99.9	99.8	99.6	99.5	99.6	100.1	100.2
Lumber and wood products	102.3	101.4	99.4	98.3	96.3	96.6	97.0	98.6	99.9	103.4	103.0	103.8
Furniture and fixtures	101.9	101.5	101.3	100.3	99.6	99.1	99.1	99.1	99.3	100.2	97.3	101.1
Stone, clay, and glass products	102.3	101.9	100.8	99.0	96.3	96.1	97.3	99.0	100.4	102.0	102.0	102.7
Primary metal industries	100.4	99.9	99.5	99.8	99.6	99.2	99.2	99.8	100.2	101.3	100.6	100.4
Fabricated metal products	101.7	101.2	101.0	100.3	99.2	98.4	98.9	99.3	99.7	100.8	99.0	100.3
Machinery, except electrical	100.0	99.2	100.4	100.7	100.4	100.3	100.3	100.1	99.8	100.5	99.1	99.2
Electrical equipment and supplies	101.3	101.0	101.1	100.7	99.9	99.4	99.0	99.3	99.5	100.4	98.6	99.8
Transportation equipment	100.6	101.1	101.8	100.8	99.0	97.2	98.2	99.9	100.8	101.4	100.0	100.1
Instruments and related products	100.4	100.4	100.6	100.3	99.7	99.6	99.3	99.4	99.6	100.6	99.7	100.3
Miscellaneous manufacturing	104.6	104.6	103.3	98.2	95.6	96.5	97.6	98.2	99.4	100.9	98.4	102.8
NONDURABLE GOODS ¹												
Food and kindred products	107.4	104.0	101.2	99.0	96.3	95.7	95.9	95.6	96.6	99.5	101.7	107.0
Tobacco manufactures	111.8	111.6	109.6	106.1	100.9	97.3	93.0	90.9	88.4	89.5	91.5	109.1
Textile mill products	100.6	100.4	100.3	100.2	99.6	99.6	99.6	99.9	99.8	101.0	98.1	100.8
Apparel and other textile products	101.3	101.6	101.2	99.5	97.9	99.7	100.2	99.7	100.3	101.2	96.7	100.7
Paper and allied products	100.8	100.6	100.8	100.3	99.3	99.0	99.1	99.2	99.3	100.9	99.8	101.0
Printing and publishing	100.0	100.3	100.4	100.8	99.8	99.8	99.8	99.8	99.8	100.0	99.6	99.8
Chemicals and allied products	100.5	100.4	100.2	99.7	99.2	99.2	99.6	99.6	99.5	100.6	100.5	100.9
Petroleum and coal products	101.6	101.1	100.2	99.3	97.5	96.9	97.4	98.6	100.1	101.9	102.8	102.6
Rubber and plastics products, nec	102.0	102.3	101.5	100.3	99.3	98.5	98.4	98.1	98.6	100.6	98.9	101.1
Leather and leather products	100.1	99.8	100.4	99.8	98.3	98.9	99.6	100.2	100.9	102.7	97.7	101.9
TRANSPORTATION AND PUBLIC UTILITIES	100.8	100.6	100.5	100.1	99.0	98.7	99.1	99.2	99.8	100.9	100.7	100.5
WHOLESALE AND RETAIL TRADE ¹												
WHOLESALE TRADE	100.4	100.8	100.7	100.5	99.4	99.0	99.0	99.1	99.4	100.5	100.6	100.7
RETAIL TRADE	100.1	100.6	101.8	104.5	98.7	97.5	98.0	99.2	100.0	100.4	99.7	99.6
FINANCE, INSURANCE, AND REAL ESTATE	100.2	99.9	99.7	99.7	99.1	99.1	99.3	99.7	99.9	100.9	101.3	101.2
SERVICES	100.2	100.3	100.0	99.5	98.2	98.8	99.2	100.0	100.6	101.3	101.1	100.9
Hotels and other lodging places	104.0	97.8	95.1	94.5	93.0	94.6	94.7	96.2	98.9	105.2	112.2	114.0
Personal services	100.0	100.8	100.9	100.6	99.0	98.7	99.1	99.6	100.5	100.9	100.2	99.5
Medical and other health services	100.0	100.0	100.0	99.8	99.7	99.7	99.8	99.7	99.9	100.5	100.6	100.3
Educational services	95.5	104.9	106.2	105.0	101.3	105.7	106.7	106.0	103.9	95.2	85.8	83.9
GOVERNMENT ¹												
FEDERAL ³	99.6	99.4	99.6	99.6	99.1	99.4	99.6	99.8	100.1	101.1	101.9	100.9
STATE AND LOCAL	97.5	101.0	102.0	101.8	100.5	102.0	102.4	102.0	101.9	100.5	94.6	93.7

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 101.4.

³ Based on data which exclude temporary Christmas employees of the Postal Service during December.

⁴ Factors shown are for 1978. Factors for March and April 1977 were 98.0 and 99.2, respectively.

ESTABLISHMENT DATA

J. Seasonal adjustment factors for production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division and major manufacturing group

Industry	1977				1978							
	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.
TOTAL²												
MINING	100.8	100.6	100.3	99.7	98.6	97.7	98.0	98.9	99.9	102.1	101.8	101.8
CONTRACT CONSTRUCTION	108.3	107.9	104.6	98.0	88.1	86.6	90.1	95.3	100.0	104.6	107.0	109.6
MANUFACTURING²												
DURABLE GOODS²												
Ordnance and accessories	100.7	100.6	100.5	101.2	100.7	99.8	99.8	99.9	98.9	99.0	99.4	99.7
Lumber and wood products	102.6	101.6	99.2	97.9	95.8	96.3	96.7	98.5	100.0	103.8	103.4	104.2
Furniture and fixtures	102.1	101.9	101.5	100.4	99.5	99.0	99.0	98.8	99.1	100.3	97.0	101.3
Stone, clay, and glass products	102.8	102.3	101.1	98.8	95.7	95.6	96.9	98.8	100.4	102.3	102.2	103.1
Primary metal industries	100.4	100.0	99.5	99.9	99.6	99.1	99.1	99.9	100.3	101.5	100.2	100.3
Fabricated metal products	102.1	101.5	101.2	100.4	99.1	98.0	98.6	99.2	99.7	100.9	98.7	100.4
Machinery, except electrical	100.1	99.1	100.7	101.1	100.7	100.5	100.5	100.2	99.8	100.5	98.2	98.4
Electrical equipment and supplies	101.8	101.5	101.6	101.0	99.8	99.1	98.6	99.0	99.2	100.4	98.3	99.6
Transportation equipment	100.6	101.1	102.3	101.1	98.7	96.6	97.9	99.9	101.2	101.9	100.4	100.0
Instruments and related products	100.5	100.6	100.9	100.4	99.6	99.4	99.4	99.3	99.7	100.7	99.3	100.1
Miscellaneous manufacturing	105.9	105.9	104.1	97.5	94.3	95.6	97.0	97.7	99.3	101.0	98.1	103.6
NONDURABLE GOODS²												
Food and kindred products	110.6	105.8	101.8	98.7	95.0	94.1	94.3	93.9	95.1	98.9	102.1	109.8
Tobacco manufactures	113.6	113.5	110.9	107.3	101.4	97.0	91.6	89.4	86.6	87.8	90.0	110.6
Textile mill products	100.7	100.4	100.2	100.2	99.5	99.6	99.6	99.9	99.8	101.1	97.9	100.9
Apparel and other textile products	101.4	101.8	101.3	99.4	97.7	99.6	100.3	99.7	100.3	101.3	96.4	100.7
Paper and allied products	101.0	100.7	100.9	100.3	99.1	98.8	98.8	99.1	99.2	101.2	99.8	101.1
Printing and publishing	100.3	100.5	100.5	101.1	99.7	99.7	99.8	100.0	99.8	99.9	99.1	99.6
Chemicals and allied products	100.7	100.5	100.1	99.7	99.1	99.1	99.8	99.9	99.6	100.6	100.1	101.0
Petroleum and coal products	102.3	101.5	100.2	98.9	96.3	95.5	96.4	98.1	100.4	102.8	104.0	103.6
Rubber and plastics products, nec	102.7	102.9	101.9	100.2	99.2	98.1	97.7	97.8	98.4	100.8	98.6	101.5
Leather and leather products	100.0	99.7	100.4	99.7	97.9	98.9	99.6	100.1	100.9	103.1	97.7	102.1
TRANSPORTATION AND PUBLIC UTILITIES	100.9	100.8	100.5	99.8	98.9	98.6	99.1	99.2	99.8	101.0	100.8	100.6
WHOLESALE AND RETAIL TRADE²												
WHOLESALE TRADE	100.4	100.9	100.8	100.6	99.3	98.8	98.9	99.0	99.3	100.6	100.7	100.8
RETAIL TRADE	100.1	100.7	102.0	105.0	98.7	97.4	97.9	99.2	100.0	100.4	99.6	99.5
FINANCE, INSURANCE, AND REAL ESTATE	100.3	100.0	99.7	99.7	98.7	98.7	99.1	99.5	99.9	101.2	101.6	101.6
SERVICES	100.1	100.3	99.9	99.5	98.2	98.8	99.3	100.1	100.6	101.4	101.0	100.8

¹ Data relate to production workers in mining and manufacturing; to construction workers in contract 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 101.8.

⁴ Factors shown are for 1978. Factors for March and April 1977 were 97.9 and 99.2, respectively.

ESTABLISHMENT DATA

K. Seasonal adjustment factors for average weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry division and major manufacturing group

Industry	1977				1978							
	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.
TOTAL PRIVATE²												
MINING	101.0	101.1	100.6	100.3	98.3	99.5	98.8	99.0	100.1	101.1	100.2	100.0
CONTRACT CONSTRUCTION	101.8	102.3	98.7	98.9	95.8	97.5	99.0	99.1	100.4	101.7	102.4	102.6
MANUFACTURING²												
DURABLE GOODS²												
Ordnance and accessories	100.0	99.8	100.4	101.7	99.6	99.6	100.2	100.0	99.8	100.6	99.2	99.0
Lumber and wood products	100.9	100.8	99.0	100.3	96.7	99.6	99.1	100.0	100.8	102.0	99.6	101.2
Furniture and fixtures	101.3	101.0	100.6	102.1	98.7	98.1	98.8	98.5	99.3	100.9	99.1	101.3
Stone, clay, and glass products	101.0	101.1	100.3	100.3	97.5	98.4	99.5	99.3	100.4	100.9	100.4	100.9
Primary metal industries	101.1	99.5	99.8	100.7	99.8	99.3	99.8	100.0	100.1	100.6	99.8	99.5
Fabricated metal products	100.8	100.3	100.5	101.7	98.9	98.9	99.6	99.2	100.1	100.7	99.1	100.2
Machinery, except electrical	100.5	100.0	100.8	102.7	99.9	99.8	100.0	99.3	99.4	99.8	98.3	99.3
Electrical equipment and supplies	100.8	100.3	100.9	101.8	99.3	99.4	99.8	99.5	99.8	100.4	98.5	99.7
Transportation equipment	100.5	100.1	100.1	103.3	97.7	98.5	99.6	100.0	100.8	101.0	100.4	97.9
Instruments and related products	100.8	99.9	101.1	102.0	99.5	99.3	99.7	99.3	99.8	100.0	99.0	99.5
Miscellaneous manufacturing	100.4	100.5	100.9	101.0	98.6	99.4	100.3	99.7	100.0	100.3	99.0	99.9
NONDURABLE GOODS²												
Food and kindred products	101.9	100.3	100.2	101.0	99.4	98.6	98.6	98.3	99.3	100.2	100.8	101.4
Tobacco manufactures	102.0	103.3	103.4	102.2	98.9	98.4	98.8	99.0	99.3	100.5	93.8	100.8
Textile mill products	100.8	100.0	100.4	100.7	98.1	99.3	99.5	99.0	100.2	101.4	99.9	100.6
Apparel and other textile products	100.6	100.8	100.7	100.3	98.0	99.2	99.7	99.1	99.7	100.5	100.3	100.9
Paper and allied products	100.9	100.3	100.5	101.5	99.8	98.7	99.1	98.3	99.5	100.4	100.0	100.6
Printing and publishing	100.9	100.2	100.5	101.7	98.7	99.1	99.7	99.0	99.8	99.9	99.8	100.6
Chemicals and allied products	100.2	100.1	100.3	101.0	99.4	99.6	99.7	100.2	99.9	100.2	99.7	99.6
Petroleum and coal products	101.5	101.0	100.8	100.0	98.3	98.5	99.2	100.1	99.9	100.3	101.1	99.4
Rubber and plastics products, nec	100.8	100.2	100.5	101.3	99.4	100.0	100.1	99.2	99.6	100.2	98.9	99.8
Leather and leather products	99.3	99.7	100.2	101.0	98.3	99.3	99.5	98.4	100.6	102.1	101.1	100.4
TRANSPORTATION AND PUBLIC UTILITIES	100.5	100.5	100.0	100.2	99.2	99.3	99.1	99.4	99.3	100.4	101.1	101.0
WHOLESALE AND RETAIL TRADE²												
WHOLESALE TRADE	100.2	100.0	100.0	101.0	99.6	99.2	99.6	99.5	99.8	100.2	100.6	100.3
RETAIL TRADE	100.1	99.2	99.0	101.0	98.1	98.3	98.7	99.0	99.2	101.2	103.1	103.2
FINANCE, INSURANCE, AND REAL ESTATE	99.8	100.0	99.8	100.1	100.2	100.2	99.7	99.9	99.7	100.1	100.2	100.3
SERVICES	100.0	99.8	99.6	99.8	99.4	99.6	99.3	99.3	99.3	100.7	101.7	101.6

¹ See footnote 1, table J.

² See footnote 2, table J.

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

Industry	1977				1978							
	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.
MANUFACTURING¹												
DURABLE GOODS	112.0	104.0	102.6	107.1	91.9	91.8	95.6	93.8	96.9	102.3	97.8	102.8
NONDURABLE GOODS	114.6	105.3	101.5	102.5	92.4	91.6	93.6	90.8	94.3	102.9	102.9	107.0

¹ See footnote 2, table J.

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

Industry	1977				1978							
	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.
TOTAL PRIVATE²												
MINING	100.3	99.3	100.1	100.6	101.1	100.7	100.1	100.1	99.8	99.6	99.3	99.1
CONTRACT CONSTRUCTION	101.3	101.0	100.7	100.7	100.5	99.7	99.5	99.1	99.3	99.1	99.3	99.7
MANUFACTURING	100.4	99.9	100.0	100.8	100.5	99.9	99.9	99.8	99.8	99.8	99.9	99.4
TRANSPORTATION AND PUBLIC UTILITIES	101.0	100.8	100.4	100.0	100.0	100.0	99.3	99.5	99.3	99.3	99.6	100.8
WHOLESALE AND RETAIL TRADE ...	100.3	100.2	99.9	99.1	100.6	100.6	100.1	100.0	100.2	99.9	99.6	99.4
FINANCE, INSURANCE, AND REAL ESTATE	99.9	99.6	99.4	100.0	100.1	100.8	100.3	100.2	100.4	99.9	99.7	99.7
SERVICES	100.4	100.0	100.3	100.4	100.4	100.7	100.2	100.0	100.3	99.8	99.1	98.4

¹ See footnote 1, table J.

² See footnote 2, table J.

N. Seasonal adjustment factors¹ for labor turnover rates in manufacturing

Item	1977				1978							
	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.
Total accessions²												
New hires	130.9	106.8	76.8	48.9	81.6	72.8	86.6	89.8	117.3	130.5	113.2	144.7
Other accessions and recalls	94.8	81.3	76.4	59.6	120.5	96.4	114.8	105.3	110.3	110.6	109.0	120.1
Total separations²												
Quits	152.2	105.3	78.5	58.0	77.7	69.1	86.5	88.4	100.8	105.3	103.1	175.3
Layoffs	87.9	97.2	117.1	147.7	138.1	102.9	98.7	81.6	70.3	70.0	112.4	73.9
Other separations	115.1	102.0	87.2	78.6	103.6	88.6	101.1	92.8	102.3	100.9	106.5	118.9

¹ Factors include the effects of trading day variations.

² Seasonally adjusted data derived by summation of components.

Explanatory Notes

These explanatory notes provide information on the concepts, methodology, and scope of Household Data (A tables), Establishment Data (B, C, and D tables), and State and Area Unemployment Data (E table) published in *Employment and Earnings*.

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, household 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 47,000 households, representing 461 areas in 923 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 detailed 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 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. Sam-

pling 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 industries 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 records, 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. Reprints of this article are available upon request from the Bureau of Labor Statistics.

Hours of work

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

ployers. 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, 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.

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, regardless of 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 (agriculture, some State and local government, domestic service, self-employment, unpaid family work, and religious organizations).

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*. Reprints of this article may be obtained upon request.

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 the Census from its censuses or annual sample surveys of manufacturing establishments and the censuses of 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 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, churches and most local government activities are not covered by unemployment insurance whereas these are included in BLS establishment statistics.

Household data

(A tables)

COLLECTION AND COVERAGE

Statistics on the employment status of the population, the personal, occupational, and other characteristics of the employed, the unemployed, and persons not in the labor force, and related data are compiled for the BLS by the Bureau of the Census in its Current Population Survey (CPS). A detailed description of this survey appears in *Concepts and Methods Used in Labor Force Statistics derived from the Current Population Survey*, BLS Report 463. This report is available from BLS on 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 calen-

dar 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 obtained from the Department of Defense.

Each month, 47,000 occupied units are eligible for interview. About 2,000 of these households are visited but interviews are not obtained because the occupants are not found at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of about 4 percent. In addition to the 47,000 occupied units, there are 8,000 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.

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 own 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. Average duration is an arithmetic mean computed from a distribution by 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) Re-entrants 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, 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.

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 data derived from the CPS household interviews 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 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 relate to persons "at work" during the survey week. At work data differ from data on total employment because the latter include persons in 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," 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 time 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 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 peak season. Persons on full-time schedules include, in addition to those working 35 hours or more, those who worked from 1-34 hours for noneconomic reasons and usually work full time.

Full- and part-time labor force. 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.

Race. White and black and other are terms used to describe the race of workers. The black and other category, which until recently had been identified as "Negro and other races" and prior to 1969 as "nonwhite," includes all persons who are observed 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 American Indians, Eskimos, Orientals, and all other non-white groups. The term "black" is used in this volume when the relevant data are provided exclusively for the black population.

Spanish 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 other Spanish origin or descent. According to the 1970 Census, 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 are primarily one of going to school or not. Statistics on major activities are published every month in table A-7 for 16-21 year-olds by employment status, race,

sex, and, if unemployed, whether seeking full- or part-time work.

Household head. One person in each household is designated as the head. The head is usually the person regarded as the head by the members of the group. If a husband and wife family occupy the unit, the husband is designated as the head. The number of heads is equal to the number of households.

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.

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.

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. At the same time, several definitions were sharpened to clear up ambiguities. The principal definitional changes were: (1) Counting as unemployed only persons who were currently available for work and who had engaged in some specific job-seeking activity within the past 4 weeks, an exception to the latter condition is made for persons waiting to start a new job in 30 days or waiting to be recalled from layoff; in the past, the current availability test was not applied and the time period for jobseeking was ambiguous; (2) counting as employed persons who were absent from their jobs in the survey week because of strikes, bad weather, etc. and were also looking for other jobs; previously, these persons had been classified as unemployed; (3) sharpening the questions on hours of work, duration of unemployment, and self-employment in order to increase their reliability.

These changes did not affect the unemployment rate by more than one-fifth of a percentage point in either direction, although the distribution of unemployment by sex was affected. The number of employed was reduced about 1 million because of the exclusion of 14- and 15-year-olds. For persons 16 years and over, the only employment series appreciably affected were those relating to hours of work and class of worker. A detailed discussion of the changes and 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*. Reprints may be obtained upon request.

Noncomparability of labor force levels

Before the changes introduced in 1967, the labor force data were not comparable for three earlier periods: (1) Beginning 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 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 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 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 20-24 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.

Changes in 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 presenta-

tion, 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 occupation 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*.

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.

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 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 3 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 Nation as a whole, in such characteristics as age, race, sex, and residence. Since these population 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.* This is a procedure in which the sample proportions are weighted by the known 1970 Census data on the race-residence distribution of the population. This step takes into account the differences existing at the time of the 1970 census between the race-residence distribution for the Nation and for the sample areas.

b. *Second-stage ratio estimate.* In this step, the sample pro-

portions are applied to independent current estimates of the population by age, sex, and race. Prior to January 1974 these estimates 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. In this procedure, the most recent census population adjusted to include estimated net census undercount by age, sex, and race (i.e., "inflated") is carried forward to each subsequent month and later age by adding births, subtracting deaths, and adding net migration. These postcensal 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. This procedure reduces the sampling variability of month-to-month changes especially and of the levels for most items also.

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

Since the estimates are based on a sample, they may differ from the figures that would have been obtained if it were possible to take a complete census using the same schedules and procedures.

The standard error is a measure of sampling variability, that is, the variations that might occur by chance because only a sample of the population is surveyed. The chances are about 2 out of 3 that an estimate from the sample would differ from a complete census by less than the standard error. The chances are about 19 out of 20 that the difference would be less than twice the standard error.

Table A shows the average standard error for the major employment status categories, by sex, computed from data for past months. Estimates of change derived from the survey are also subject to sampling variability. The standard error of change for consecutive months is also shown in table A. The standard errors of level shown in table A are acceptable approximations of the standard errors of year-to-year change.

The figures presented in table B are to be used for other characteristics and are approximations of the standard errors of all such characteristics. They should be interpreted as providing an indication of the order of magnitude of the standard errors rather than as the precise standard error for any specific item.

The standard error of the change in an item from one month to the next month is more closely related to the standard error of the monthly level for that item than to the size of the specific month-to-month change itself. Thus, in order to use the approximations to the standard errors of month-to-month changes as presented in table C, it is first necessary to obtain the standard error of the monthly level of the item in table B, and then find

Table A. Average standard error of major employment status categories

(In thousands)

Employment status and sex	Average standard error of —	
	Monthly level	Month-to-month change (consecutive months only)
BOTH SEXES		
Labor force	205	150
Total employment	210	155
Agriculture	95	60
Nonagricultural employment	210	155
Unemployment	109	106
MALES		
Labor force	115	95
Total employment	125	100
Agriculture	85	55
Nonagricultural employment	130	105
Unemployment	81	89
FEMALES		
Labor force	140	110
Total employment	140	110
Agriculture	35	25
Nonagricultural employment	140	110
Unemployment	74	83

Table B. Standard error of level of monthly estimates

(In thousands)

Size of estimate	Both sexes		Males		Females	
	Total or white	Black and other	Total or white	Black and other	Total or white	Black and other
10	4	4	6	4	6	4
50	9	9	11	9	11	9
100	12	12	16	12	16	12
250	20	17	25	17	25	17
500	30	25	34	25	34	25
1,000	40	35	50	35	50	35
2,500	60	40	75	40	75	40
5,000	85	45	90	—	90	—
10,000	115	—	115	—	115	—
20,000	150	—	125	—	125	—
30,000	170	—	—	—	—	—
40,000	180	—	—	—	—	—

the standard error of the month-to-month change in table C corresponding to this standard error of level. It should be noted that table C applies to estimates of change between 2 consecutive months. For changes between the current month and the same month last year, the standard errors of level shown in table B are acceptable approximations.

Illustration. Assume that the tables showed the total number of persons working a specific number of hours as 15,000,000, an increase of 500,000 over the previous month. Linear interpolation in the first column of table B shows that the standard error of 15,000,000 is about 133,000. Consequently, the chances are about 68 out of 100 that the sample estimate differs by less than 133,000 from the figure which would have been obtained from a complete count of the number of persons working the given number of hours. Using the 133,000 as the standard error of the monthly level in table C, it may be seen that the standard error of the 500,000 increase is about 126,000.

The reliability of an estimated percentage, computed by using sample data for both numerator and denominator, depends upon both the size of the percentage and the size of the total

Table C. Standard error of estimates of month-to-month change

[In thousands]

Standard error of monthly level	Standard error of month-to-month change
10	12
25	28
50	55
100	100
150	140
200	155
250	160
300	190

upon which the percentage is based. Where the numerator is a subclass of the denominator, estimated percentages are relatively more reliable than the corresponding absolute estimates of the numerator of the percentage, particularly if the percentage is large (50 percent or greater). Table D shows the standard errors for unemployment percentages derived from the survey. Linear interpolation may be used for percentages and base figures not shown in table D. As a general rule, percentages will not be published when the monthly base is less

Table D. Standard error of unemployment percentages

Base of percentages (thousands)	Estimated percentage									
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	35 or 65	50	
75	1.5	2.1	3.2	4.5	5.4	6.1	6.7	7.5	8.3	
150	1.1	1.5	2.4	3.3	4.0	4.5	4.9	5.5	6.1	
250	.9	1.3	2.0	2.8	3.3	3.7	4.1	4.6	5.1	
500	.6	.8	1.3	1.7	2.1	2.4	2.6	2.9	3.2	
1,000	.4	.6	.9	1.2	1.5	1.7	1.8	2.1	2.3	
2,000	.3	.4	.6	.9	1.0	1.2	1.3	1.5	1.6	
3,000	.2	.3	.5	.7	.9	1.0	1.1	1.2	1.3	
5,000	.2	.3	.4	.6	.7	.7	.8	.9	1.0	
10,000	.1	.2	.3	.4	.5	.5	.6	.7	.7	
25,000	.1	.1	.2	.3	.3	.3	.4	.4	.4	
50,000	.1	.1	.1	.2	.2	.2	.3	.3	.3	
75,000	.1	.1	.1	.1	.2	.2	.2	.2	.3	

than 75,000 or the annual base is less than 35,000. Table E shows the standard error of percentage of monthly levels and consecutive month change for frequently analyzed unemployment rate series. These errors are computed from data for recent months. Errors on change for nonconsecutive months are slightly greater (by roughly a factor of 1.1 times the month-to-month error).

Table E. Standard error of percentages for major unemployment rates

Selected categories	Monthly level	Consecutive month change	Selected categories	Monthly level	Consecutive month change
Total (all civilian workers)	.12	.14	OCCUPATION - Continued		
Males, 20 years and over	.14	.17	Blue-collar workers	.23	.28
Females, 20 years and over	.19	.24	Craft and kindred workers	.32	.39
Both sexes, 16-19 years	.56	.72	Operatives	.36	.46
White workers	.12	.15	Nonfarm laborers	.66	.84
Black (and other) workers	.43	.55	Service workers	.32	.40
Household heads	.12	.15	Farm workers	.43	.53
Married men	.13	.16	INDUSTRY		
Full-time workers	.12	.15	Nonagricultural private wage and salary workers	.14	.17
Part-time workers	.35	.44	Construction	.75	.95
Unemployed 15 weeks and over	.06	.07	Manufacturing	.27	.34
Labor force time lost	.12	.15	Durable goods	.36	.45
OCCUPATION			Non-durable goods	.43	.54
White-collar workers	.13	.15	Transportation and public utilities	.41	.52
Professional and technical	.20	.24	Wholesale and retail trade	.28	.35
Managers and administrators except farm	.23	.28	Finance and service industries	.23	.29
Sales workers	.39	.48	Government wage and salary workers	.19	.24
Clerical workers	.24	.30	Agricultural wage and salary workers	1.11	1.39

Establishment data

(B, C, and D tables)

COLLECTION

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

Federal-State cooperation

Under cooperative arrangements with State agencies, the respondent fills out a single employment or labor turnover reporting form, which is then used for national, State, and area estimates. This eliminates duplicate reporting on the part of respondents, and together with the use of identical techniques at the national and State levels, insures maximum comparability of estimates.

State agencies mail the forms to the establishments and examine the returns for consistency, accuracy, and completeness. The States use the information to prepare State and area series and then send the establishment data to the BLS for use in preparing the national series.

Shuttle schedules

Two types of data collection schedules are used: Form BLS 790—Monthly Report on Employment, Payroll, and Hours; and Form DL 1219—Monthly Report on Labor Turnover. These schedules are of the "shuttle" type, with space for each month of the calendar year. The collection agency returns the schedule to the respondent each month so that the next month's data can be entered. This procedure assures maximum comparability

and accuracy of reporting, since the respondent can see the figures he has reported for previous months.

Form BLS 790 provides for entry of data on the number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, 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.

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. This information is collected each year on a supplement to the monthly 790 or 1219 report. 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 most important product or activity.

All data on employment, hours, earnings, and labor turnover for the Nation and for a few States and areas are classified in accordance with the 1967 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget. Most States and areas have converted their series to the 1972 SICM.

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.

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 and are unemployed or on strike during the rest of the period, are counted as employed. Not counted as employed are persons who are laid off, on leave without pay, or on strike for the entire period or who are hired but have not been paid 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 contract construction, and nonsupervisory employees in the remaining private nonagricultural components. For Federal Government, hours and earnings relate to all employees, both supervisory and nonsupervisory. Terms are defined below. 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 contract construction division: Working supervisors, qualified craft workers, mechanic's 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 similar occupational levels, and other employees 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 nonsupervisory workers. Included are hours paid for holidays and vacations, and for sick leave when pay is received directly from the firm.

Overtime hours cover hours worked by production or related workers for which overtime premiums were paid because the hours were in excess of the number of hours of either the straight-time workday or the workweek during the pay period which 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, reflecting 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. Shifts in the volume of employment between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments also affect the general earnings averages. 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 does 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 are derived by multiplying

average weekly hours by average hourly earnings. 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 causes, 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 service 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 the portion of the gross average weekly hours which were in excess of regular hours and for which overtime premiums were paid. If an employee worked on a paid holiday at regular rates, receiving as total compensation his 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 gross 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.

Hours and earnings for total private nonagricultural industries. The series covers all nonagricultural industry divisions except government. The principal source of payroll data is Form BLS 790. Secondary source material such as the Bureau's *Employment and Wages, County Business Patterns* of the Bureau of the Census, and additional supporting information such as The Hospital Guide, Part II, of the American Hospital Association and special studies by the National Council of Churches supplement data for certain industry groups within the service division.

For a technical description of this series, see the article, "Hours and Earnings for Workers in Private Nonagricultural Industries," published in the May 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*. Reprints are available upon request.

Railroad hours and earnings. The figures for class I railroads (excluding switching and terminal companies) are based on monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. 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 and his marital status, as well as on the level of his gross income. To reflect these variables, spendable earnings are computed for a worker with no dependents and a married worker with three dependents. 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 reflects the spendable earnings of only those workers, with either none 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 Measures of Purchasing Power Contrasted," in the *Monthly Labor Review* for April 1971. Reprints of this article are available upon request from the Bureau of Labor Statistics.

"Real" earnings are computed by dividing the current Consumer Price Index into the earnings averages for the current month. This is done for gross average weekly earnings and for spendable average weekly earnings. The level of earnings is thus adjusted for changes in purchasing power since the base period (1967).

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. 537-540). 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 monthly average for the 1967 period. 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 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. Transfers to another establishment of the company are included, beginning with January 1959.

Accessions are the total number of permanent and temporary additions to the employment roll, including both new and re-hired 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.

Other accessions, which are not published separately but are included in total accessions, are all additions to the employment roll which are not classified as new hires, including transfers from other establishments of the company and employees recalled from layoff.

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

Quits are terminations of employment initiated by employees, failure to report after being hired, 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, transfers 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 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 industry 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 F. Summary of methods for computing industry statistics on employment, hours, earnings, and labor turnover.

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, may be a whole industry or a size stratum, a region stratum, or a size stratum of a region within an industry.

Benchmark adjustments

Employment estimates are compared periodically with 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 1974 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by State agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover nearly nine-tenths of the total nonagricultural employment 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 relating to the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates 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 due to benchmark adjustment for the last 3 years is shown in table G.

Data for all months since the last benchmark to which the series has been adjusted are subject to revision. To provide users of the data with a convenient reference source for the revised data, the BLS publishes as soon as possible after each benchmark revision a summary volume of employment, hours, earnings, and labor turnover statistics, entitled *Employment and Earnings*, United States.

Table F. Summary of methods for computing industry statistics on employment, hours, 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 employees 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.	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) ratio of women to all employees.	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.	Average, weighted by production or nonsupervisory employment, of the average weekly hours for component cells.
Average weekly overtime hours	Production worker overtime hours divided by number of production workers.	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.	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 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 (production or nonsupervisory worker employment multiplied by weekly earnings) divided by annual aggregate hours.	Annual total of 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	Sum of monthly rates divided by 12.	Sum of monthly rates divided by 12.

Table G. Nonagricultural payroll employment estimates, by industry divisions, as a percentage of the benchmark for 1971, 1973, and 1974

Industry division	1971	1973 ¹	1974
Total	100.2	98.4	99.9
Mining	99.8	96.5	97.0
Contract construction	96.9	90.4	100.6
Manufacturing	100.4	98.9	99.9
Transportation and public utilities	100.9	99.3	100.0
Wholesale and retail trade	100.3	97.8	100.1
Finance, insurance, and real estate	100.2	99.5	98.9
Services	100.4	99.1	99.3
Government	100.0	99.5	100.6

¹ 2-year 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 since the sampling variance is proportional to the

average size of establishments. The universe of establishments is stratified first by industry and then within each industry by size of establishment in terms of employment. For each industry, the number of sample units is distributed among the size class cells on the basis of average employment per establishment in each cell. In practice, this is equivalent to distributing the predetermined total number of establishments required in the sample among the cells on the basis of the ratio of employment in each cell to total employment in the industry. Within each noncertainty stratum the sample members are selected at random.

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 percentage 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 accept samples in these divisions 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 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 reports are mailed by respondents, 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 H 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 I shows the approximate coverage, in terms of employment, of the labor turnover sample.

Table H. Approximate size and coverage of BLS employment and payrolls sample, March 1974¹

Industry division	Number of establishments in samples	Employees	
		Number reported	Percent of total
Total	158,400	31,637,000	41
Mining	2,100	307,000	46
Contract construction	16,500	771,000	20
Manufacturing	47,000	11,821,000	59
Transportation and public utilities:			
Railroad transportation (ICC)	95	537,000	94
Other transportation and public utilities	7,300	2,181,000	53
Wholesale and retail trade	38,200	3,050,000	18
Finance, insurance, and real estate	10,100	1,507,000	36
Services	23,500	2,740,000	20
Government:			
Federal (Civil Service Commission) ²	3,200	2,691,000	100
State and local	10,400	6,032,000	52

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

² National estimates of Federal employment are provided to the BLS by the Civil Service Commission. State and area estimates are based on a sample of 3,200 reports covering about 53 percent of employment in Federal establishments.

Table I. Approximate size and coverage of BLS labor turnover sample, March 1974

Industry	Employees	
	Number reported	Percent of total
Total	10,873,730	52
Manufacturing	10,007,800	51
Metal mining	61,850	66
Coal mining	56,770	35
Communications:		
Telephone	734,270	74
Telegraph	13,040	61

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. Improvements brought about by the most recent expansion in unemployment insurance coverage were the major cause of differences in the March 1973 benchmark adjustments. (See article by Carol M. Utter, "BLS Establishment Estimates Revised to March 1973 Benchmark Levels", in the December 1974 issue.) Table J 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.

The hours and earnings estimates for 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 J and for individual industries with the specified number of employees in table K. 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

Table J. Average benchmark percent revision in employment estimates and relative errors¹ for average weekly hours and average hourly earnings by industry division

Industry division	Average benchmark revision in estimates of employment ²	Relative errors (in percent)	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment	0.2	-	-
Total private .....	.1	0.1	0.2
Mining	1.2	.5	.5
Contract construction	1.2	.2	.3
Manufacturing .....	.3	.1	.1
Durable goods .....	.4	.1	.1
Nondurable goods .....	.3	.1	.1
Transportation and public utilities .....	.4	.7	.4
Trade .....	.3	.1	.2
Wholesale	1.0	.2	.3
Retail .....	.2	.2	.2
Finance, insurance, and real estate .....	.4	.2	.4
Services .....	.6	.4	.8
Government ³ .....	.6	-	-

¹ Relative errors relate to March 1971 data.

² The average percent revision in employment for the 1967-71 and 1974 benchmarks.

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

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 experience of the last 6 years) of differences between final estimates and benchmarks are presented in table K.

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 L 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 .1 of an hour for weekly hours and 1 cent for hourly earnings.

Table K. 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 (in percent)	
		Average weekly hours	Average hourly earnings
50,000	1,900	0.9	1.5
100,000	2,700	.7	1.1
200,000	4,100	.5	.9
500,000	9,600	.4	.8
1,000,000	13,000	.3	.5
2,000,000	16,800	.3	.5

¹ Assuming 12-month intervals between benchmark revisions.

Table L. Errors of preliminary employment estimates

Size of employment estimate	Root-mean-square error of	
	Monthly level	Month-to-month change
50,000	600	600
100,000	800	700
200,000	1,400	1,200
500,000	3,300	3,200
1,000,000	4,200	4,200
2,000,000	6,500	6,300
10,000,000	27,000	23,000
Total nonagricultural employment	94,000	81,000
Mining	6,000	5,000
Contract construction	17,000	15,000
Manufacturing	35,000	33,000
Transportation and public utilities	14,000	12,000
Wholesale and retail trade	33,000	31,000
Finance, insurance, and real estate	6,000	6,000
Services	27,000	22,000
Government	45,000	39,000

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

Real compensation per hour is compensation per hour adjusted to eliminate the effect of changes in the Consumer Price Index.

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* includes 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 households and institutions, owner-occupied housing,

and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the Gross Domestic Product of nonfinancial corporate businesses.

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 hour data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics.

State and area unemployment data

(E table)

Since November 1972, the Bureau of Labor Statistics has been responsible for developing the concepts and methods used by State employment security agencies to estimate State and local area labor force, employment, and unemployment. In December 1975, the Office of Management and Budget extended this responsibility to include the publication of State and local area labor force and unemployment estimates. Prior to 1972, State agencies prepared estimates using a method developed by the Department of Labor in 1950, generally referred to as the Handbook method (BES Report No. R-185). The new system combines the Handbook method with a set of procedures based on the concepts and definitions used in the national Current Population Survey (CPS). Improvements have been in two areas: (1) The estimating methodology previously used by State agencies has been modified to more closely approximate CPS definitions; and (2) The State-prepared monthly estimates are benchmarked to annual average totals from the CPS.

Federal-State cooperative program

Labor force and unemployment estimates for States, labor market areas (LMA), and other areas specifically defined for fund allocation purposes are developed under a Federal-State cooperative program and transmitted each month to BLS. The local area unemployment estimates approved by BLS are the basis for determining eligibility of an area for benefits under Federal economic assistance programs, such as those established by the Comprehensive Employment and Training Act (CETA).

ESTIMATING METHODS

Monthly employment and unemployment estimates 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 residence as used in the Current Population Survey. Adjustment factors for the major categories of employment by class of worker and industry have been developed 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.

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

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

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

$$U = A(X + E) + BX, \text{ Where}$$

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. *Adjustment for additivity.* Using the Handbook method, States prepare independent employment and unemployment estimates for the State, and for many substate areas. An adjustment is applied to all substate estimates to ensure that the substate estimates add to the independent State totals. Specific additivity adjustment procedures vary from State to State, but are generally one of the three following basic methods: (a) If a State is comprised of mutually exclusive and exhaustive LMA's, then the difference between the independent State estimate and the sum of the estimates for the LMA's is prorated over all LMA's in the State, to produce a set of substate estimates which add to the independent State estimate; (b) If the

mutually exclusive LMA's do not exhaust the geographic area of the State, then the difference between the independent State estimate and the sum of the LMA estimates, or residual, becomes the balance-of-State estimate; (c) If a State contains LMA's which are benchmarked independently (see below), estimates for these areas are subtracted from the independent State estimate and the additivity adjustment is then applied to the remaining areas in the balance of the State.

4. *Benchmark correction and extrapolation procedures.* Once each year all monthly estimates prepared by State employment security agencies under the Handbook method are adjusted, or benchmarked, by BLS to the annual average estimates resulting from the CPS. This adjustment is necessary because the State-prepared estimates are not as reliable as the CPS estimates, due to differences in State UI laws, the structural limitations of the Handbook method, and errors in the UI data.

The benchmarked estimates are produced in three stages.

First, the monthly Handbook estimates are adjusted by the ratio of the CPS and Handbook 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.

The benchmarked estimates are extrapolated into the current year by applying the latest relevant correction factor to the current Handbook estimates of employment and unemployment. The employment factor used in year (t) is the quotient of the December employment benchmarked and Handbook estimates in year (t-1). The unemployment factor for year (t) is the algebraic difference between the December unemployment benchmarked and Handbook estimates in year (t-1). The preliminary estimate in the current year is then the result of applying the correction factor by multiplication (for employment), or by addition (for unemployment) to the current Handbook estimate.

Seasonal adjustment

Many economic statistics reflect a regularly recurring seasonal movement which can be estimated on the basis of past experience. By eliminating that part of the change which can be ascribed to usual seasonal variation, it is possible to observe the cyclical and other nonseasonal movements in the series. However, in evaluating deviations from the seasonal pattern—that is, 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 in addition, are 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 methods used for these series are an adaptation of the standard ratio-to-moving average method, with a provision for moving "adjustment factors" to take account of changing seasonal patterns. A detailed description of the method is given in the two publications, *BLS Seasonal Factor Method (1966)* and *X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

Data for the household series are seasonally adjusted utilizing the Census Bureau's X-11 Method. Each January, seasonal adjustment factors for unemployment and other labor force series are revised to take into account data from the previous year. In January 1976, in addition to the routine annual revisions, the Bureau introduced a modification in the procedure for seasonally adjusting teenage unemployment and those few other unemployment series (e.g., unemployed new entrants) of which teenagers are the exclusive or major part. All other series are adjusted following past procedures.

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 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 series for major components of the labor force based on data through December 1976, new seasonal factors for the 12 major components of the civilian labor force, and a description of the seasonal adjustment methodology are published in the February 1977 *Employment and Earnings*. Many additional series, which are either components or aggregates of the series presented, are available from the BLS upon request.

For establishment data, seasonally adjusted series for all employees, production workers, hours, and earnings, are computed using the BLS Seasonal Factor Method. Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing seasonally adjusted average weekly earnings by the seasonally adjusted Consumer Price Index. 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 1967 base. For total private, total goods producing, total private service producing, trade, manufacturing, and durable and nondurable goods 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 1967 base.

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 Census X-11 Method using the trading day option. 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 August 1976. Seasonal factors to be used for current adjustment appear in the December 1976 issue of *Employment and Earnings*.

Additional information concerning the preparation of the labor force, employment, hours, earnings, and labor turnover series—concepts and scope, survey methods, and limitations—is contained in the *Handbook of Methods, BLS Bulletin 1910*.

U.S. Department of Labor Bureau of Labor Statistics

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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, Montgomery 36104
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 85007
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 (LAUS and CES).
VIII COLORADO	-Division of Employment, Department of Labor and Employment, Room 222, 1210 Sherman Street, Denver 80203
I CONNECTICUT	-Employment Security Division, Labor Department, 200 Folly Brook Boulevard, Wethersfield 06109
III DELAWARE	-Department of Labor, 801 West Street, Wilmington 19899
III DIST. OF COL.	-Office of Administration and Management Service, D.C. Manpower Administration, Room 626, 500 C Street, N.W., Washington 20001
IV FLORIDA	-Division of Employment Security, Department of Commerce, Caldwell Building, Tallahassee 32304
IV GEORGIA	-Employment Security Agency, 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
V ILLINOIS	-Bureau of Employment Security, Department of Labor, 910 South Michigan Avenue, Chicago 60605
V INDIANA	-Employment Security Division, 10 North Senate Avenue, Indianapolis 46204
VII IOWA	-Employment Security Commission, 1000 East Grand Avenue, Des Moines 50319
VII KANSAS	-Employment Security Division, Department of Labor, 401 Topeka Boulevard, Topeka 66603
IV KENTUCKY	-Bureau of Manpower Services, State Office Building Annex, Frankfort 40601
VI LOUISIANA	-Department of Employment Security, P.O. Box 44094, Capitol Station, Baton Rouge 70804
I MAINE	-Employment Security Commission, Department of Manpower Affairs, 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 Employment Security Building, Government Center Boston 02114
V MICHIGAN	-Employment Security Commission, Department of Labor, 7310 Woodward Avenue, Detroit 48202
V MINNESOTA	-Department of Economic Security, 390 North Robert Street, 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, State House Station, Lincoln 68509
IX NEVADA	-Employment Security Department, P.O. Box 602, Carson City 89701
I NEW HAMPSHIRE	-Department of Employment Security, 32 South Main Street, Concord 03301
II NEW JERSEY	-Department of Labor and Industry, 202 John Fitch Plaza, Trenton 08625
VI NEW MEXICO	-Employment Security Commission, P.O. Box 1928, Albuquerque 87103
II NEW YORK	-Division of Employment, N.Y. State Department of Labor, State Campus—Building 12, Albany 12201
IV NORTH CAROLINA	-Employment Security Commission, P.O. Box 25903, Raleigh 27611
VIII NORTH DAKOTA	-Employment Security Bureau, P.O. Box 1537, Bismarck 58505
V OHIO	-Division of Research and Statistics, Bureau of Employment Services, 145S. Front St., Columbus 43216
VI OKLAHOMA	-Employment Security Commission, Will Rogers Memorial Office Building, Oklahoma City 73105
X OREGON	-Employment Division, Department of Human Resources, 875 N.E. Union Street, Salem 97311
III PENNSYLVANIA	-Bureau of Employment Security, Department of Labor and Industry, Seventh and Forster Streets, Harrisburg 17121
I RHODE ISLAND	-Division of Statistics and Census, Department of Labor, Room 117, 235 Promenade Street, Providence 02908 (CES). Department of Employment Security, 24 Mason Street, Providence 02903 (LAUS and LTS)
IV SOUTH CAROLINA	-Employment Security Commission, P.O. Box 995, Columbia 29202
VIII SOUTH DAKOTA	-Department of Labor, P.O. Box 1730, Aberdeen 57401
IV TENNESSEE	-Department of Employment Security, Room 519, Cordell Hull Office Building, Nashville 37219
VI TEXAS	-Employment Commission, TEC Building, 15th and Congress Avenue, Austin 78778
VIII UTAH	-Department of Employment Security, P.O. Box 11249, Salt Lake City 84147
I VERMONT	-Department of Employment Security, P.O. Box 488, Montpelier 05602
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 Security Department, 1007 South Washington Street, Olympia 98501
III WEST VIRGINIA	-Department of Employment Security, State Office Building, 112 California Avenue, Charleston 25305
V WISCONSIN	-Department of Industry, Labor, and Human Relations, P.O. Box 7944, Madison 53707
VIII WYOMING	-Employment Security Commission, P.O. Box 2760, Casper 82601