

Employment and Earnings

February 1978



U.S. Department of Labor
Bureau of Labor Statistics

Vol. 25 No. 2

In this issue:
Revised seasonally adjusted
labor force series





U.S. DEPARTMENT OF LABOR
Ray Marshall, Secretary

BUREAU OF LABOR STATISTICS
Julius Shiskin, Commissioner

Employment and Earnings is prepared by the Division of Industry Employment Statistics and the Division of Employment and Unemployment Analysis in collaboration with the Division of Special Publications. The data are collected by the Bureau of the Census (Department of Commerce), State Employment Security Agencies, and State Departments of Labor in cooperation with the Bureau of Labor Statistics. A brief description of the cooperative statistical programs of the BLS with these agencies is presented in the Explanatory Notes. The State agencies are listed on the inside back cover.

Employment and Earnings may be ordered through the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Subscription price per year \$18 domestic, and \$22.50 foreign. Single copy \$1.50 domestic, and \$1.90 foreign. Prices are subject to change by the U.S. Government Printing Office. Send correspondence on circulation and subscription matters (including address changes) to the Superintendent of Documents.

Communications on editorial matters should be addressed to: Chester L. Green, Employment and Earnings, Bureau of Labor Statistics, Washington D.C. 20212. Inquiries regarding the text and *Household Data* should be addressed to: Attention of Gloria P. Green or Phone: (202) 523-1944. Inquiries relating to *Establishment Data* and all other tables should be addressed to: Attention of Gloria P. Goings or Phone: (202) 523-1364.

The Secretary of Labor has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through February 28, 1981. Controlled circulation postage paid at Washington, D.C., and Baltimore, Md.

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Library of Congress Catalog Number 70-11379

CALENDAR OF SPECIAL FEATURES

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Area definitions					x					

¹ The issue that introduces new benchmark 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.

Employment and Earnings

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

Editors' Note

Household survey data for periods prior to January 1978 are not strictly comparable with current data because of the introduction of an expansion in the sample and revisions in the estimation procedures. As a result, the overall civilian labor force and employment totals in January were raised by roughly a quarter of a million; unemployment levels and rates were essentially unchanged. An explanation of the procedural changes and an indication of the differences appear in "Revisions in the Current Population Survey in January 1978," in this issue of *Employment and Earnings*.

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Employment and Unemployment Developments, January 1978

Both total employment and unemployment in January were about unchanged from December levels following strong improvements in recent months. The Nation's overall unemployment rate was 6.3 percent, not much different from December's 6.4-percent rate but down substantially from the rates prevailing during 1977.

Total employment—as measured by the monthly survey of households—was 92.9 million in January. An apparent increase of 270,000 from December was strongly affected by technical modifications that were introduced in January 1978. See "Revisions in the Current Population Survey in January 1978," on page 7.

Nonfarm payroll employment—as measured by the monthly survey of establishments—did show further growth in January, rising by 255,000 over the month to 83.7 million. Over the year, nonfarm payroll jobs have increased by 3.0 million.

Unemployment

There were 6.2 million persons unemployed in January (seasonally adjusted), virtually the same level as in December after declining markedly from November. The overall rate of unemployment, 6.3 percent, remained at about the level reported for December but was 1.1 percentage points lower than in January 1977 and the lowest reported since October 1974.

Although jobless rates for adult men (4.7 percent) and teenagers (16.0 percent) were essentially unchanged over the month, there was an improvement in unemployment among adult women; their rate dropped 0.5 percentage point to 6.1 percent. Unemployment rates for both black and white workers, at 12.7 and 5.5 percent, respectively, were unchanged over the month.

Over the year, joblessness has been reduced for all major demographic groups except blacks, whose unemployment rate was virtually the same as it had been in January 1977. During the same period, the rate for whites dropped 1.2 percentage points to 5.5 percent. Since January 1977, the jobless rate for adult men has declined by 1.1 percentage points, and there was an even greater reduction—2.4 points—for teenagers. The rate for adult women decreased by 0.8 percentage point over the year.

The median duration of unemployment fell from 7.1 to 6.6 weeks in January and was down a full week from a year earlier. This measure, which is being introduced for the first time to supplement the data on the mean duration of

unemployment, depicts the midpoint in terms of weeks of joblessness currently experienced by the unemployed. In other words, half of the unemployed workers in January 1978 had been jobless for less than 6.6 weeks and half for a longer duration. (See table A-37.)

Total employment and the labor force

Total employment was little changed in January at 92.9 million, seasonally adjusted, after allowance for revisions in the household survey estimation procedures and sample expansion. Over the year, however, total employment increased by about 4 million. The employment-to-population ratio—the proportion of the total noninstitutional population that is employed—was 58.1 percent in January.

The civilian labor force also was essentially unchanged over the month at 99.1 million. There has been an increase of about 3 million over the past year, with adult women accounting for more than half of the growth. The overall civilian labor force participation rate—the proportion of the civilian noninstitutional population either working or seeking work—was 62.8 percent. Participation rates among adults were 80.0 percent for men and 48.9 percent for women, while the rate for teenagers was 56.9 percent.

Industry payroll employment

Nonfarm payroll employment increased by 255,000 in January to 83.7 million, seasonally adjusted. Most of the major industry groups registered gains, as employment increased in 65 percent of the 172 industries that comprise the BLS diffusion index of private nonagricultural payroll employment. As in December, employment totals were affected by the strike activity in the coal mining industry, which has removed approximately 160,000 workers from the payrolls. It is not possible to determine at this time what effect, if any, this strike might have had on other industries.

The largest over-the-month employment gains were in manufacturing (105,000), particularly in the durable goods industries, wholesale and retail trade (95,000), and services (55,000). While these three industries comprise less than two-thirds of total payroll employment, they accounted for nearly all of the over-the-month employment gains.

Contract construction employment remained about unchanged from December but was undoubtedly affected by the unusually high levels of precipitation over much of the

Nation during the survey period. The weather may also have contributed to a decline in transportation and public utilities.

Total nonfarm payroll employment in January was 3.0 million above the year-ago level, with the greatest percentage increases in contract construction, durable goods manufacturing, and services.

Hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls was down sharply in January, declining one-half hour to 35.7 hours, seasonally adjusted. As was also the case in January a year earlier, the reduction in hours was largely the result of poor weather conditions throughout much of the country. The average workweek in contract construction was particularly hard hit, declining almost 2 hours. The manufacturing workweek declined by 0.8 hour; manufacturing overtime, however, remained unchanged from December, at 3.5 hours.

The index of aggregate weekly hours of production or nonsupervisory workers on nonagricultural payrolls decreased by 1.1 percent in January to 116.3 (1967=100). Despite this drop, the overall index was 3.6 percent above the year-ago level.

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on nonagricultural payrolls increased 0.9 percent in January, seasonally adjusted. Average weekly earnings declined by 0.5 percent, however, as a result of the sharp decline in the workweek. Compared to their year-ago levels, average hourly and weekly earnings were up 7.9 and 7.6 percent, respectively.

Before adjusting for seasonality, average hourly earnings were 6 cents above their December 1977 level and 40 cents above their year-ago level. Average weekly earnings fell by \$3.29 over the month to \$193.09. Over the year, average weekly earnings rose by \$13.61.

The hourly earnings index

The Hourly Earnings Index—earnings adjusted for overtime in manufacturing, seasonality, and the effects of changes in the proportion of workers in high-wage and low-wage industries—was 207.3 (1967=100) in January, 1.2 percent higher than in December. The index was 7.7 percent above January a year ago. During the 12-month period ended in December, the Hourly Earnings Index in dollars of constant purchasing power rose 0.8 percent.

Revisions in the Current Population Survey in January 1978

*Margaret E. Schooley

The household data on the labor force status and characteristics of the population are compiled monthly from the Current Population Survey (CPS), which is conducted for the Bureau of Labor Statistics by the Bureau of the Census. The CPS is a probability sample of households and other living quarters designed to produce data for the civilian noninstitutional population.

Through December 1977, the published household data were derived from a sample of 47,000 households designed to produce national estimates (national sample). However, beginning in January 1978, these statistics are based on a larger sample designed to produce reliable annual average estimates of unemployment for each State. This "expanded" sample was created by adding supplemental housing units to the national sample.

Supplementation occurred only in States not having a sample size sufficient for meeting the specified reliability requirements. Thus, 9,000 additional occupied housing units were selected in 24 States and the District of Columbia. Household data have been collected from this supplemental sample since September 1975 and have been used to produce annual average estimates for individual States in 1976 and 1977. Since the additional units were selected on a State-by-State basis (see sampling methods below), further work was required to incorporate the supplemental sample into the national sample to produce national estimates. This article discusses the sampling methods used to select the supplemental sample, the changes in estimation procedures required to incorporate it, and the effect of its use on the reliability of the estimates.

Sampling methods

The expanded sample was designed to maximize the use of the national sample to produce State estimates. As a result the sampling methods used to select the additional housing units were dependent on the methods used for the national sample. This general description of the sampling methods is designed to illustrate how the two samples fit together. A detailed description of the CPS design and methodology can be found in "The Current Population Survey: Design and Methodology," U.S. Department of Commerce, Bureau of the Census, Technical Paper No. 40. The household data section of the Explanatory Notes to this publication contains details on sample sizes and survey coverage.

National (unexpanded) sample. The national CPS sample used as a basis for the supplementation was selected in two stages after the 1970 Decennial Census using census listings and counts. Prior to the first stage of sampling, the U.S. was divided into primary sampling units (PSU's), which are typically a county or groups of contiguous counties. The PSU's were then grouped into strata. PSU's with large populations constituted strata by themselves and, therefore, are in the sample with certainty. For strata containing more than one PSU, three sample PSU's were selected to represent every two strata. These PSU's, with a few exceptions, are in the sample until after the 1980 census. The PSU selection was done with probability proportionate to the population in each PSU. The strata were created within the four census regions, but without regard to State lines; in fact, PSU's could be defined to cross State lines.

The second stage of sampling was the selection of clusters of housing units, each of which was expected to contain four units. This was done in such a manner that each housing unit in the United States would have an equal probability of selection. Sufficient clusters were selected to allow for rotation of sample units within the PSU's over the decade.

Expanded sample. For each State requiring supplementation, new strata were formed from the PSU's in the State not represented by a national sample PSU in the State. Each national sample PSU represents the portion of its national stratum within the State, unless the portion of its national stratum in the State was too large and was, therefore, subdivided. PSU's in subdivided national strata for which there were no sample PSU's in the State were included in the strata formed within the State. One PSU was selected to represent each new "State-stratum" with probability proportionate to the PSU population.

Within the new sample PSU's, national sampling procedures were used to select clusters of housing units. Additional clusters were also selected in some national sample PSU's as necessary. The total number of additional sample housing units selected for a State depended on the sample size required to achieve the desired reliability and the number of housing units already in the national sample in the

* Margaret E. Schooley is Chief, Basic Surveys Branch, Bureau of the Census, U.S. Department of Commerce.

State. As in the national sample, enough units were selected to allow for rotation of the sample for the rest of the decade. The procedures for collecting the data and the rotation pattern were the same in both samples. The supplemental State samples were designed so that the expected values of the sample estimates for the national and expanded samples would be equal.

Estimation procedures

The CPS estimation procedure involved multiplying the basic weights—the inverse of the probability of selection for a housing unit—by factors which adjust for household noninterview and for differences between sample proportions and known population proportions in certain residence, age, sex, and race categories. The “Estimating Methods” section in the Explanatory Notes describes these adjustments and their purposes. Although this section, as it appears in this month’s publication, describes the estimation procedure for the national sample, the purposes of the adjustments to the basic weights are the same for the expanded sample; a revision of this section will appear in *Employment and Earnings* within the next few months. Changes have been made in each step of the estimation procedures, except for the composite estimation and seasonal adjustment procedures, in order to incorporate the expanded sample. These changes should not have a significant effect on the expected value of the sample estimates. The following table highlights the differences:

Reliability of the estimates

Both nonsampling and sampling errors are possible in data from sample surveys (see the section in the Explanatory Notes on the reliability of the estimates for house-

hold data). In both the national and expanded samples, the extent of nonsampling error is unknown. However, it is expected that the nonsampling error for both should be about the same, since the same questionnaire, data collection and processing procedures, and rotation scheme are used in the two samples.

The standard errors for household data presented in the Explanatory Notes of this month’s publication are primarily a measure of the sampling error, but only for the national sample. They do not reflect the use of the additional units in the expanded sample. These sets of standard errors are changed from the January publication, however, and provide improved estimates of reliability for the national sample.

The magnitude of the sampling error for the expanded sample has not yet been measured, but the standard errors are not expected to differ from those for the national sample by more than 10 percent for most characteristics. Since the size of the standard error is approximately inversely proportional to the square root of the sample size, the use of the supplemental sample will cause a reduction in some of the sampling errors. However, since the sample design and estimation techniques affect the standard errors by type of characteristic, the reduction should not be uniform and, for some estimates there may be no reduction in sampling error.

Tables 1 and 2 below illustrate differences between estimates from the expanded and national samples. Although the reader can observe some patterns (e.g., the differences for females are, in general, larger than for males), most of the differences are within sampling error. The major exception is the estimates of black and other workers in table 2.

Level of Estimation	Unexpanded Sample	Expanded Sample
Basic weight	One basic weight used for every sample unit.	Unsupplemented States: One basic weight used for every sample unit. Supplemented States: ¹ Basic weights vary by PSU, but all units within a sample PSU use same basic weights.
Noninterview adjustment	Adjustment applied within groups of sample PSU's contained <i>within census region</i> by race-residence categories. ²	Adjustment applied within groups of sample PSU's contained <i>within State</i> ¹ by same race-residence categories as for unexpanded sample. ²
First-stage ratio estimation	Adjustment factors calculated <i>within census region</i> by race-residence categories. ²	Adjustment factors calculated <i>within State</i> by same race-residence categories as for unexpanded sample. ²
Second-stage ratio estimation	Adjustment done in 2 steps: 1. Factors calculated for persons 14 years and over of black and other minority races only, with breakdowns by black, other races, and age-sex categories. 2. Factors calculated for persons 14 years and over of all races, with breakdowns by white, all other races, and age-sex categories.	Adjustment done in 3 steps: 1. Factors calculated for total population 16 years and over by State. 2. Same as step 1 for unexpanded sample. 3. Same as step 2 for unexpanded sample. Adjustment steps iterated 6 times.

¹ Includes the District of Columbia

² Some collapsing of categories occurs.

Table 1. Differences between the expanded and unexpanded sample estimates of the employment status of the civilian noninstitutional population by sex, age, and race-December 1977

(In thousands)

Sex, age, and race	Civilian labor force										Not in labor force	
	Total		Employed						Unemployed			
	Expanded sample	Difference	Total		Agriculture		Nonagricultural industries		Expanded sample	Difference	Expanded sample	Difference
			Expanded sample	Difference	Expanded sample	Difference	Expanded sample	Difference				
Total, 16 years and over . . .	98,739	+236	92,871	+248	3,044	+130	89,827	+117	5,868	-11	58,869	-235
Males	57,703	+59	54,573	+49	2,518	+81	52,055	-30	3,130	+10	16,828	-58
16-19 years	4,719	-3	4,023	+13	252	+7	3,771	+7	696	-16	3,448	+4
20-24 years	7,812	+28	7,071	+12	262	+6	6,809	+6	741	+16	1,469	-27
25-34 years	15,059	-6	14,333	-6	439	+23	13,895	-28	726	0	745	+7
35-44 years	10,830	+11	10,528	+12	372	+6	10,156	+6	302	0	434	-10
45-54 years	10,234	0	9,918	-6	442	+25	9,476	-30	315	+6	904	0
55-64 years	7,116	+17	6,873	+19	458	+18	6,415	+2	243	-2	2,465	-16
65 years and over	1,933	+14	1,826	+6	292	-2	1,534	+9	107	+8	7,362	-13
Females	41,036	+176	38,298	+198	526	+50	37,772	+149	2,738	-21	42,041	-175
16-19 years	4,186	+35	3,594	+24	47	+6	3,547	+18	592	+10	4,108	-34
20-24 years	6,683	+21	6,077	+38	50	0	6,028	+39	606	-17	3,268	-20
25-34 years	10,230	+19	9,550	+13	116	+7	9,434	+7	680	6	6,536	-18
35-44 years	7,465	+7	7,107	+20	98	+11	7,009	+9	358	-12	4,714	-6
45-54 years	6,801	+4	6,516	+6	102	+7	6,414	0	285	0	5,148	-3
55-64 years	4,531	+52	4,361	+59	74	+10	4,286	+9	170	-6	6,180	-51
65 years and over	1,139	+38	1,093	+37	39	+9	1,053	+28	47	+1	12,087	-37
Black and other, 16 years and over	11,617	-6	10,260	+11	295	+27	9,965	-15	1,358	-17	7,467	+7
Males	6,130	-3	5,474	+20	249	+19	5,224	+1	656	-23	2,469	+4
16-19 years	520	-6	350	+3	16	0	334	+3	170	-9	692	+7
20-24 years	952	+13	785	+17	12	+3	773	+14	166	-3	265	-12
25-34 years	1,657	-5	1,503	0	73	+8	1,430	-8	154	-4	187	+6
35-44 years	1,178	+5	1,120	+5	37	+5	1,083	0	58	0	114	-4
45-54 years	1,003	-3	958	-3	42	+2	917	-5	45	0	208	+4
55-64 years	615	-9	576	-4	37	+2	539	-6	39	-3	289	+10
65 years and over	204	+6	182	+7	33	0	149	+6	23	0	712	-5
Females	5,488	-2	4,786	-8	46	+8	4,740	-16	702	+6	4,999	+3
16-19 years	422	-6	254	-11	0	0	255	-10	169	+5	874	+7
20-24 years	936	-3	730	0	4	0	726	+1	206	-4	559	+4
25-34 years	1,572	+8	1,374	0	12	+3	1,362	-3	198	+9	763	-7
35-44 years	1,088	0	1,022	+2	6	+3	1,015	0	66	-2	564	+1
45-54 years	850	2	808	+1	5	0	803	+1	41	+1	572	-1
55-64 years	473	-6	456	-6	12	+1	444	-6	17	0	593	+7
65 years and over	147	+7	142	+7	7	+3	135	+4	5	0	1,074	-6

NOTE: Data are not seasonally adjusted; differences are (expanded sample) minus (national sample).

6

Table 2. Differences between the expanded and unexpanded sample estimates of the civilian noninstitutional population in metropolitan and nonmetropolitan areas by race—fourth quarter 1977

(In thousands)

Race	Metropolitan areas							
	Total				Central cities		Suburbs	
	Poverty areas		Nonpoverty areas		Expanded sample	Difference	Expanded sample	Difference
	Expanded sample	Difference	Expanded sample	Difference				
Total, 16 years and over	11,480	-139	95,047	-158	45,044	-166	61,483	-131
White	5,969	+12	86,336	-14	34,812	+58	57,493	-60
Black and other	5,511	-151	8,711	-143	10,232	-223	3,990	-71
	Nonmetropolitan areas							
					Farm		Nonfarm	
					Expanded sample	Difference	Expanded sample	Difference
Total, 16 years and over					4,959	+235	45,913	+62
White					4,615	+156	41,444	-154
Black and other					344	+79	4,469	+216

NOTE: See note, table 1.

Revision of Seasonally Adjusted Labor Force Series

*by Thomas J. Plewes

As is customary each year, the Bureau of Labor Statistics (BLS) has revised the seasonal adjustment factors for unemployment and other labor force series derived from the Current Population Survey (household survey) to incorporate the experience of the previous year. The revisions this year take into account data through December 1977.

The revised data for many labor force groups were released by the Bureau of Labor Statistics on January 24, 1978 (USDL 78-53). This issue of *Employment and Earnings* includes the revised seasonal factors for the 12 component series comprising the civilian labor force that are to be used in the computation of the overall unemployment rate for each month of 1978 (shown on p. 14) and the seasonally adjusted series for the period of revision, 1973-77, by month (shown on pp. 132-162). These data replace those published in the February 1977 and subsequent issues of this publication, which were based on data seasonally computed through December 1976.

Since 1973, the Census Bureau's X-11 method¹ has been used to seasonally adjust the labor force data. For most series, seasonality was computed based on the most recent 11-year period. (For series with fewer than 11 years of observations, the full span of the series is used in the computation of seasonality.) In keeping with past practice, however, revisions of the seasonally adjusted data were limited exclusively to the last 5 years; thus, only the seasonally adjusted series for the years 1973 forward have been revised and are published here. Seasonally adjusted data for 1972, which are not subject to further revision, may be found in the February 1977 issue of *Employment and Earnings*, and those for the 1967-71 period are presented in the February 1976 issue of this publication.

Pre-1967 data, adjusted by the BLS *Seasonal Factor Method*,² are also not subject to change. Users of these data who have retained the February 1973 issue of this publication have a permanent source of pre-1967 seasonally adjusted data. However, all historical data may be obtained from the BLS upon request.

Method of adjustment

The X-11 seasonal adjustment method is an adaptation of the traditional ratio-to-moving average method and allows for changing seasonal patterns. The original data are regarded as the combination of components: A trend-

cycle, which represents the long-run trend and cycle movements of the series; a seasonal component, which is the annual repetitive pattern that makes certain months consistently higher or lower than others; and an irregular component, which is a residual and includes sampling errors and short-term fluctuations due to unforeseeable events not following any consistent pattern (unusual weather, strikes, etc.).

The X-11 method includes two optional procedures, one procedure, called multiplicative, assumes that the original series is the *product* of the trend-cycle, seasonal, and irregular components. The other, termed additive, assumes that the original series is the *sum* of the three components. After a satisfactory decomposition is achieved, the seasonally adjusted series are computed either by dividing each month's original value by the corresponding seasonal factor in the multiplicative procedure or by subtracting that factor from the original in the additive procedure.

A centered 12-month moving average of the original data is used as the first estimate of the trend-cycle. This is divided into (or subtracted from, in the case of the additive procedure) the original value to isolate the seasonal-irregular. In the X-11 method, a five-term weighted moving average of these seasonal-irregulars for the same month of successive years provides initial estimates of the seasonal factors. Each seasonal factor divided into (subtracted from) the corresponding seasonal-irregular is an estimate of the irregular component, which at this stage includes some residual trend-cycle. A refined trend-cycle is then computed using 9-, 13-, and 23-term Henderson curve weights to construct a moving average of the first preliminary seasonally adjusted series; seasonal factors and irregulars are then computed. A 5-year moving standard deviation (sigma) of the irregular is computed. Individual irregulars divided by these sigmas are classified by size. The X-11 method assigns graduated weights to the observations based on these ratios. Small deviations

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

¹ For a detailed description of the X-11 method, see Technical Paper No. 15, the X-11 Variant of the Census Method II Seasonal Adjustment Program, by Julius Shiskin, Alan Young, and John Musgrave (Bureau of the Census, 1967).

² This method is described in the BLS Handbook of Methods, Bulletin 1910 (Bureau of Labor Statistics, 1976), Appendix A.

(those between 0 and 1.5 sigma) are accepted; that is, they receive a weight of "1". Deviations exceeding 2.5 sigma are rejected and receive zero weights. Intermediate deviations (those between 1.5 and 2.5 sigma) receive weights of more than zero and less than one.

The weights are used in two ways. They serve as auxiliary weights in the various moving averages used in computing seasonal factors, so that the effect of each aberrant figure is reduced in inverse proportion to its weight. In addition, they are used in computing modified original values, where the amount of modification varies inversely with the weight. These refinements eliminate most aberrations in the trend-cycle and seasonal components and, instead, make them part of the irregular components. The modified original series then is averaged to obtain a trend-cycle.

Processes similar to those described earlier are used to obtain revised seasonal factors and irregular components. (For these and subsequent estimates of seasonal factors, center-weighted moving averages of up to seven terms are applied to the seasonal-irregulars.) Revised modified original data are once again seasonally adjusted by repeating this process to obtain a final set of factors and the seasonally adjusted data.

Aggregation procedures

After the components of a series are seasonally adjusted, the values derived are combined to provide seasonally adjusted values for many other series. For example, civilian labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by this method of aggregation. Each of the three major labor force components—agricultural employment, nonagricultural employment, and unemployment data for four age-sex groups (male 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 obtained by dividing the estimate for total unemployment (the sum of 4 seasonally adjusted age-sex components) by the civilian labor force (the sum of 12 seasonally adjusted age-sex components).

Revised procedures

In addition to the usual revisions which accompany the availability of another year's data, this year the Bureau of Labor Statistics has introduced revised procedures for seasonally adjusting a number of series—including 3 of the 12 component series which are used in computing the overall unemployment rate. These revisions culminate an intensive review of seasonal adjustment procedures which was undertaken during 1977. During 1975 and 1976, seasonality for teenage unemployment was computed using

the additive procedure of the X-11 method. All other series were adjusted using the multiplicative option of X-11.

Two modifications in adjustment procedures are introduced this year. Two additional series, teenage non-agricultural employment by sex, will, like teenage unemployment, be adjusted by the additive procedure of the X-11 method. Based on the statistical tests applied, the additive model better portrays the seasonal movements of these series, hence enabling a more satisfactory adjustment than the previously applied multiplicative model. A number of other teenage employment series will also be adjusted with the additive option.

The seasonal modification in procedure consists of applying the X-11 prior level adjustment option to one of the 12 component series—unemployed adult men. Because this is the first time that the BLS has applied this optional procedure to a component of a major economic indicator, it would be useful to review the rationale for selection of the procedure and to provide an indication of the impact that the modification will have on the unemployment rate.

For the past 3 years, identification of the pattern of seasonality of the unemployment series has been affected by the abrupt change in the level of unemployment at the end of 1974. This shift in level was particularly evident for adult male unemployment. When shifts in the level of a series are sudden, large, and sustained, the ratio-to-moving average procedure tends to produce a poor identification of the trend-cycle component of the movement in the original series. In turn, the seasonal-irregular ratios and the seasonal factor curves are distorted.

To correct for this, the prior weight adjustment option of the X-11 seasonal adjustment program has been used to pre-process the program input for the adult male unemployment series. The prior adjustment procedure applies a constant factor (in this instance, 1.5) that raises the level of the period prior to the trend shift (January 1967-October 1974) and thus corrects for the abrupt change encountered in late 1974. The correction factor was computed on the basis of the difference between the post-October 1974 trend level and the average level for the period prior to the abrupt level shift. The use of the trend-level adjustment correction does not affect the month-to-month changes in the original series and facilitates a better estimation of the seasonals by reducing the discontinuity in the trend.

Effect of the revisions

The incorporation of the 1977 data and the modifications introduced in the procedures for computing 3 of the 12 components of the unemployment rate have led to revisions in the unemployment rate for 10 months in 1977. Table 1 contains the overall monthly seasonally adjusted unemployment rates for the period December 1976-December 1977 as originally published and as revised.

Table 1. Revised seasonally adjusted unemployment rate, December 1976-77

Month	Published during 1977	Revised
1976: December	7.8	7.8
1977: January	7.3	7.4
February	7.5	7.6
March	7.3	7.4
April	7.0	7.1
May	6.9	7.1
June	7.1	7.1
July	6.9	6.9
August	7.1	7.0
September	6.9	6.8
October	7.0	6.8
November	6.9	6.7
December	6.4	6.4

It should be noted that the pattern for the year is somewhat different using the revised factors in that there is a more steady decline in the unemployment rate during the year rather than the sharp drop in December as initially computed using last year's factors and procedures.

If no revision had been made in procedures for computing seasonality for the three components of the unemployment rate, the process of incorporating the additional year's data using the previous procedures only would have produced a similar perspective of the movement in the unem-

ployment rate for the months of 1977. The rates that would have been produced without modification in procedure, however, would have preserved an apparent overstatement of the December 1976-January 1977 change. The revised procedures better control for the influence of the abrupt shift in trend.

Revised series

The number of household series published in this volume has been considerably expanded over previous years. Nearly 500 seasonally adjusted series—both components and aggregates—are included. Series newly introduced this year include median duration of unemployment and employment-population ratios for the major age-sex groups and race.

A large number of other series, primarily components and aggregates of series published in this volume, have not been included due to space limitations. These additional series may be obtained in printed form from the BLS upon request. All seasonally adjusted series are also available in a one-reel tape file. This file includes approximately 1,800 original and seasonally adjusted monthly and quarterly series—as well as recent seasonal factors for directly adjusted series—from date of inception of the series through 1977. Inquiries concerning this file, as well as any questions regarding these adjustment procedures, should be addressed to the Data Services Group, Office of Current Employment Analysis, Bureau of Labor Statistics, Washington, D.C. 20212.

Table 2. Current seasonal adjustment factors for labor force components

Procedure and series	Jan.	Feb.	Mar.	Apr.	May	June
Multiplicative Adjustment¹						
Agriculture employment:						
Males, 20 years and over	90.7	92.2	93.7	99.1	102.8	107.4
Females, 20 years and over	81.4	72.3	77.1	88.6	112.0	122.2
Males, 16-19 years	62.0	66.4	74.3	96.2	103.6	143.5
Females, 16-19 years	62.3	56.9	62.6	72.4	92.4	163.4
Nonagricultural employment:						
Males, 20 years and over	98.7	98.4	98.8	99.4	99.8	100.6
Females, 20 years and over	99.8	100.2	100.7	100.6	99.9	98.6
Unemployment:						
Males, 20 years and over	117.7	122.0	114.8	102.4	93.0	96.9
Females, 20 years and over	108.6	108.5	101.8	94.5	88.5	98.4
Additive Adjustment²						
Nonagricultural employment:						
Males, 16-19 years	-381	-383	-336	-210	-112	487
Females, 16-19 years	-265	-257	-224	-202	-151	224
Unemployment:						
Males, 16-19 years	55	19	-24	-111	-148	338
Females, 16-19 years	-15	-71	-39	-120	-119	336
	July	Aug.	Sept.	Oct.	Nov.	Dec.
Multiplicative Adjustment¹						
Agriculture employment:						
Males, 20 years and over	107.4	107.1	103.7	104.3	98.0	93.4
Females, 20 years and over	129.2	119.8	106.7	117.4	93.0	80.3
Males, 16-19 years	159.1	145.7	102.1	94.2	83.8	69.1
Females, 16-19 years	212.7	172.0	101.9	87.1	63.9	51.6
Nonagricultural employment:						
Males, 20 years and over	101.0	101.2	100.8	100.8	100.3	100.0
Females, 20 years and over	97.4	97.8	100.0	101.5	101.6	101.9
Unemployment:						
Males, 20 years and over	95.3	92.8	86.9	87.8	92.0	98.9
Females, 20 years and over	100.1	104.6	106.4	99.7	98.6	90.4
Additive Adjustment²						
Nonagricultural employment:						
Males, 16-19 years	936	751	-202	-129	-216	-204
Females, 16-19 years	640	465	-153	-60	-38	19
Unemployment:						
Males, 16-19 years	187	-20	-90	-109	-32	-67
Females, 16-19 years	157	34	23	-31	-49	-107

¹ Multiplicative procedure: To derive seasonally adjusted level, divide original value by factor and multiply by 100.

² Additive procedure: To derive seasonally adjusted level, subtract factor from original value.

CHARTS

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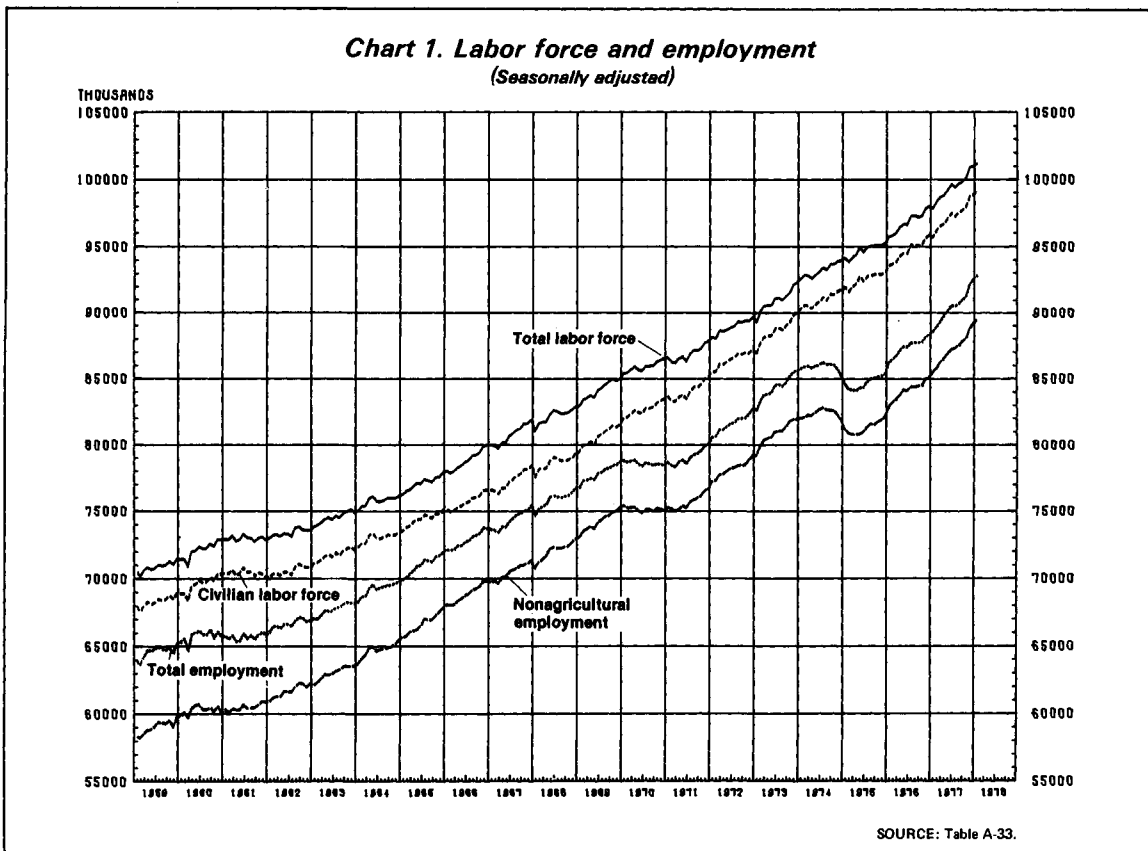
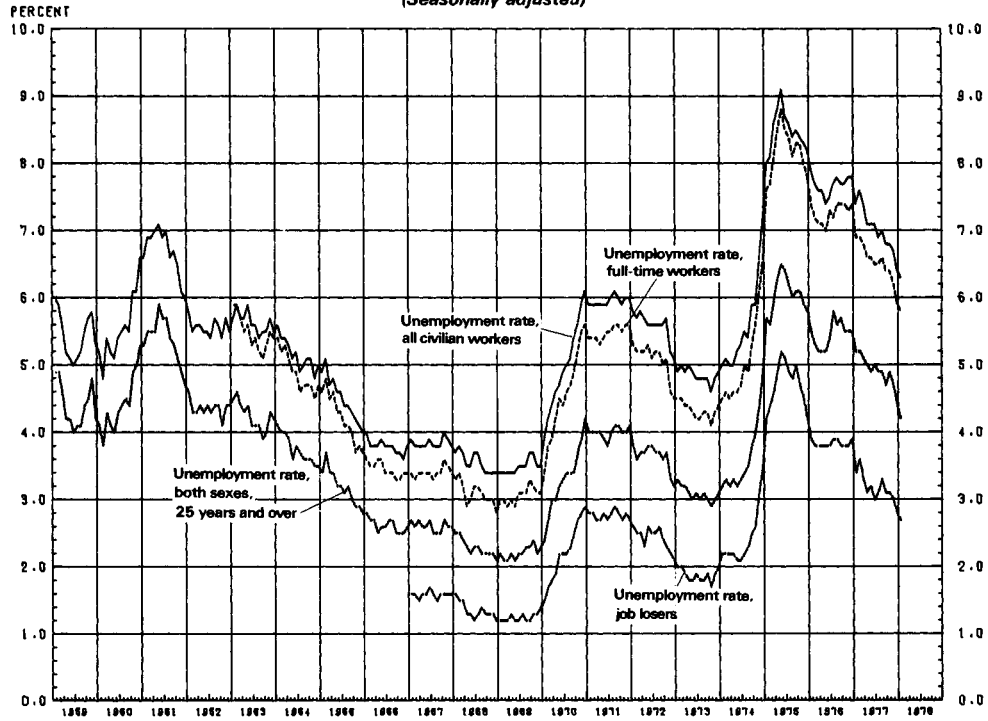
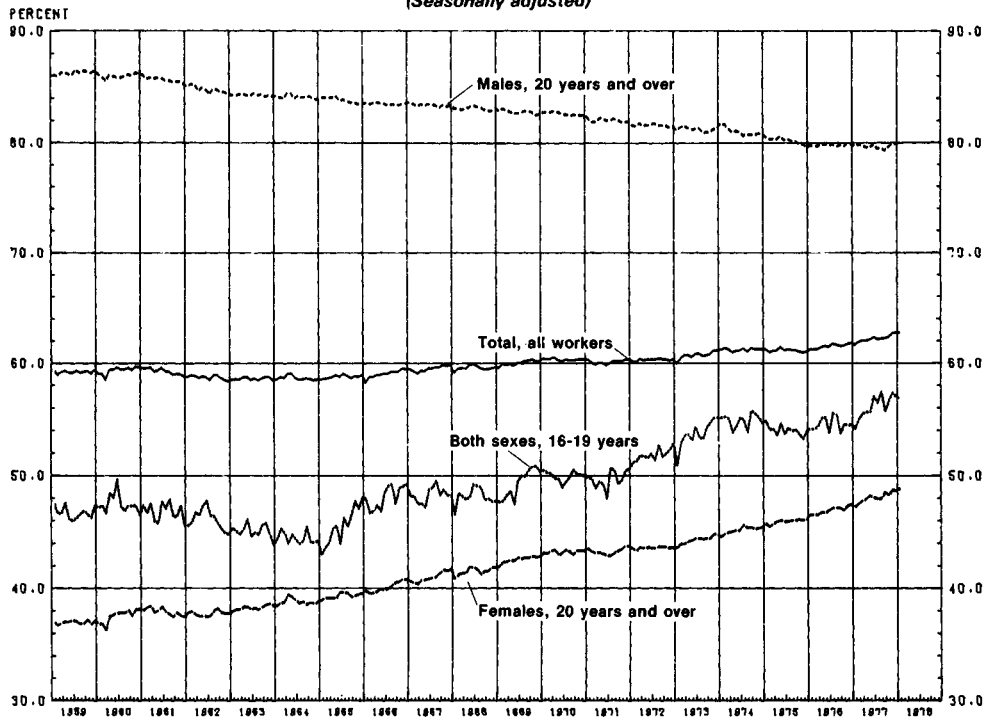


Chart 2. Major unemployment indicators
(Seasonally adjusted)



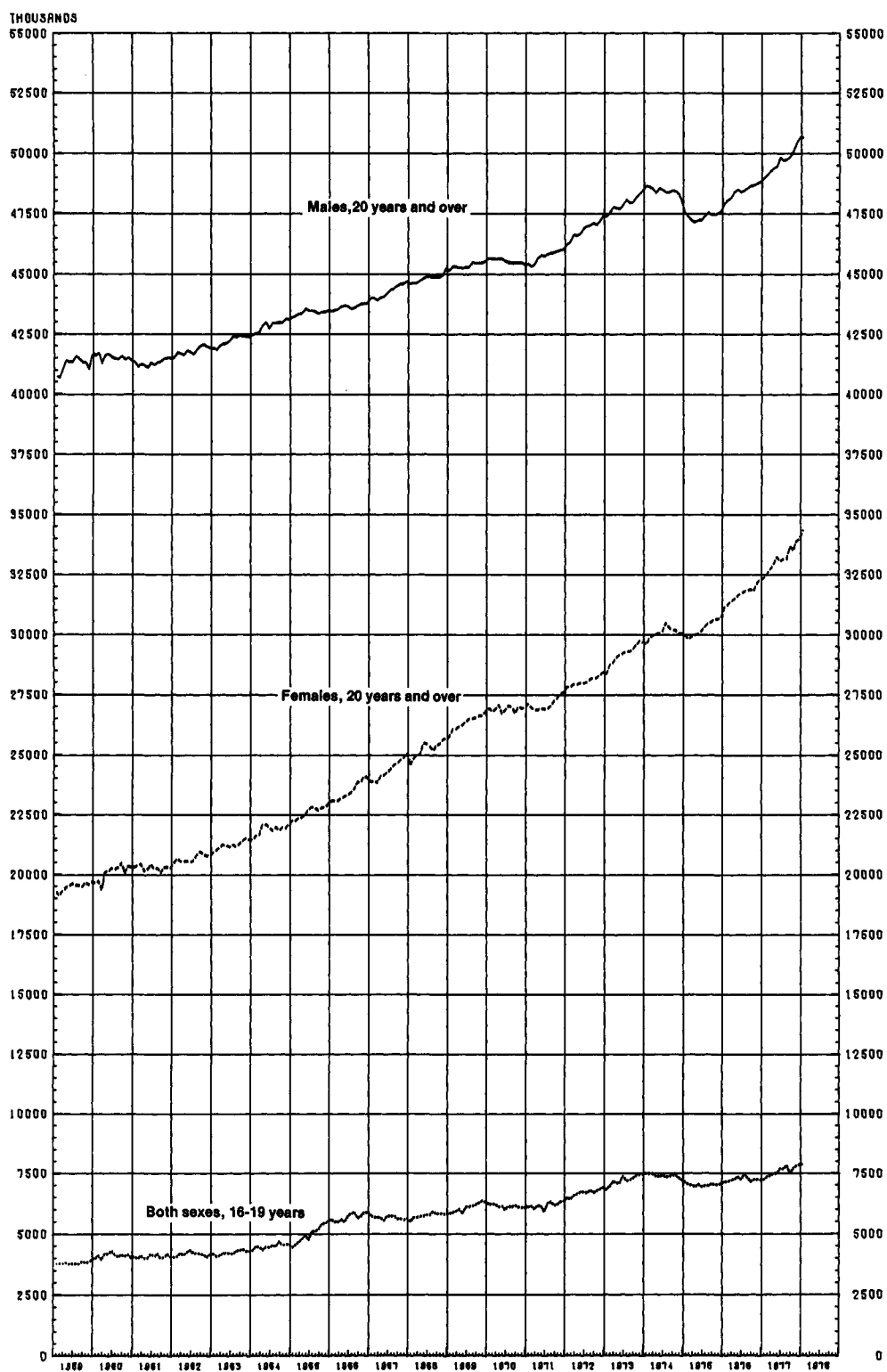
SOURCE: Tables A-36, A-38, and A-39.

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



SOURCE: Table A-33.

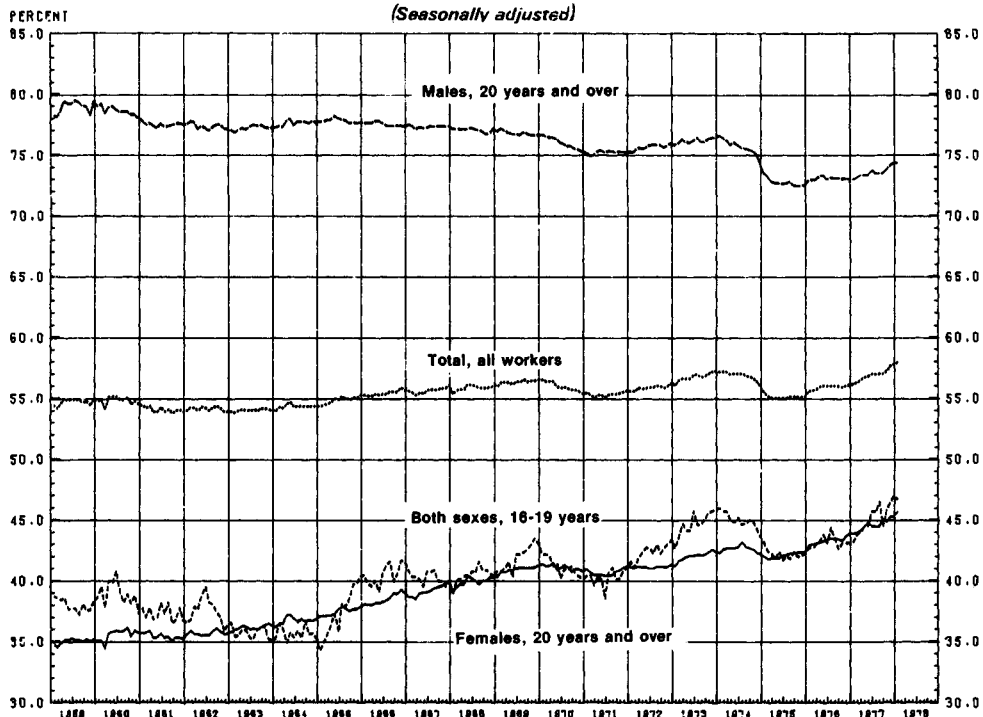
Chart 4. Total employment by sex and age
(Seasonally adjusted)



SOURCE: Table A-33.

Chart 5. Employment—population ratios by sex and age

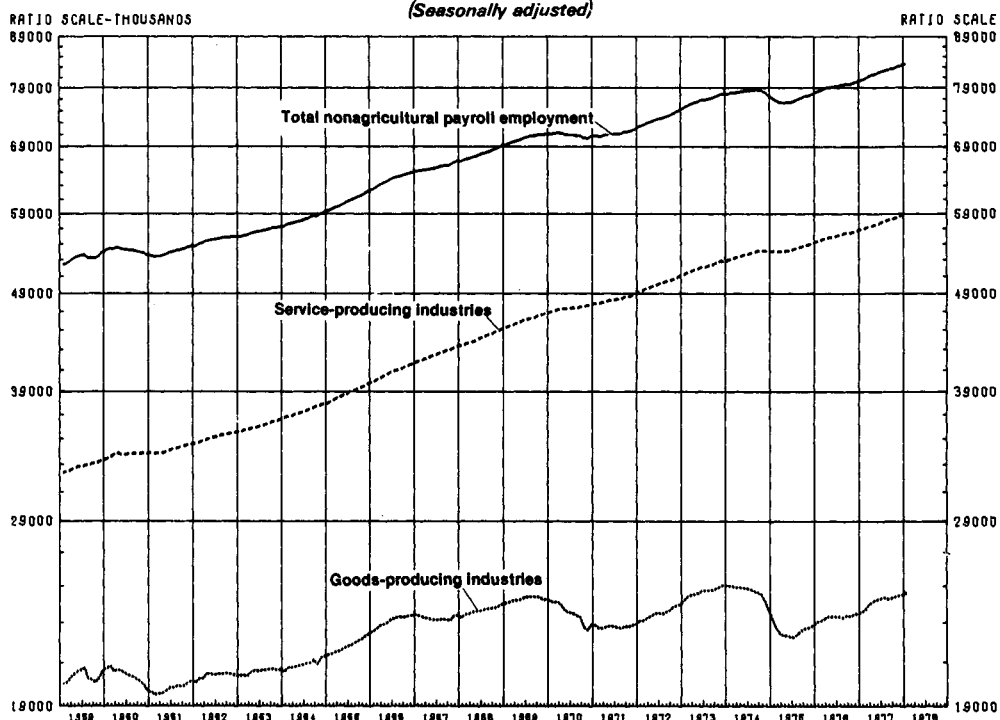
(Seasonally adjusted)



SOURCE: Table A-33.

Chart 6. Payroll employment in goods- and service-producing industries

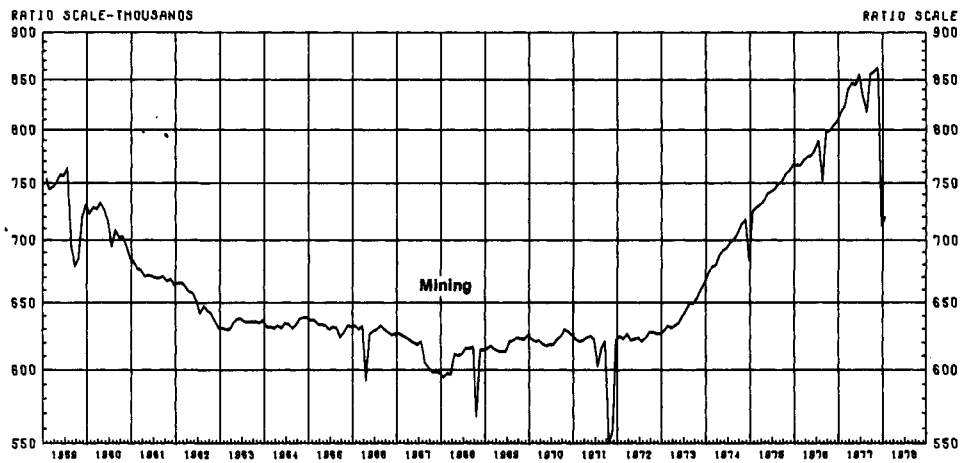
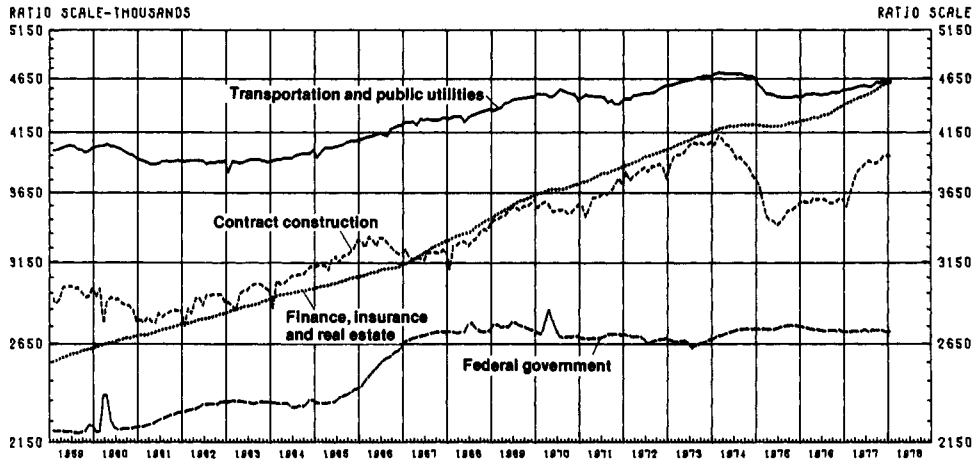
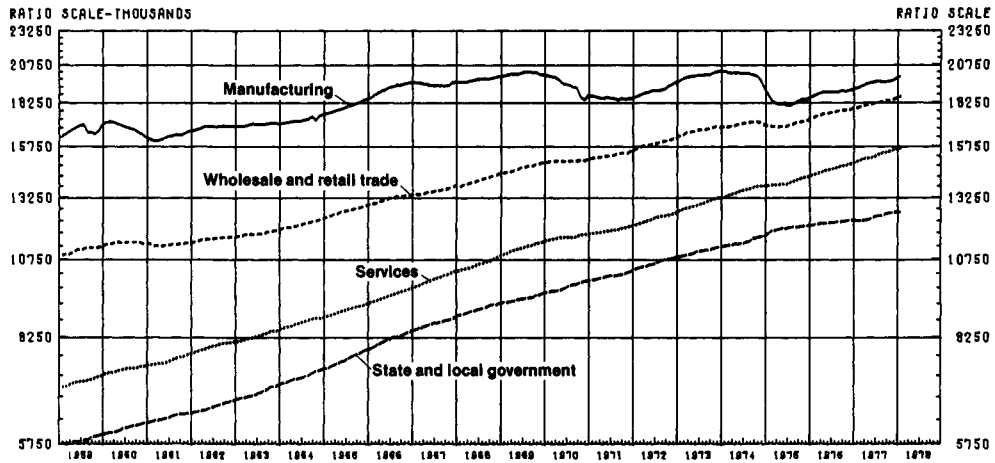
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-5.

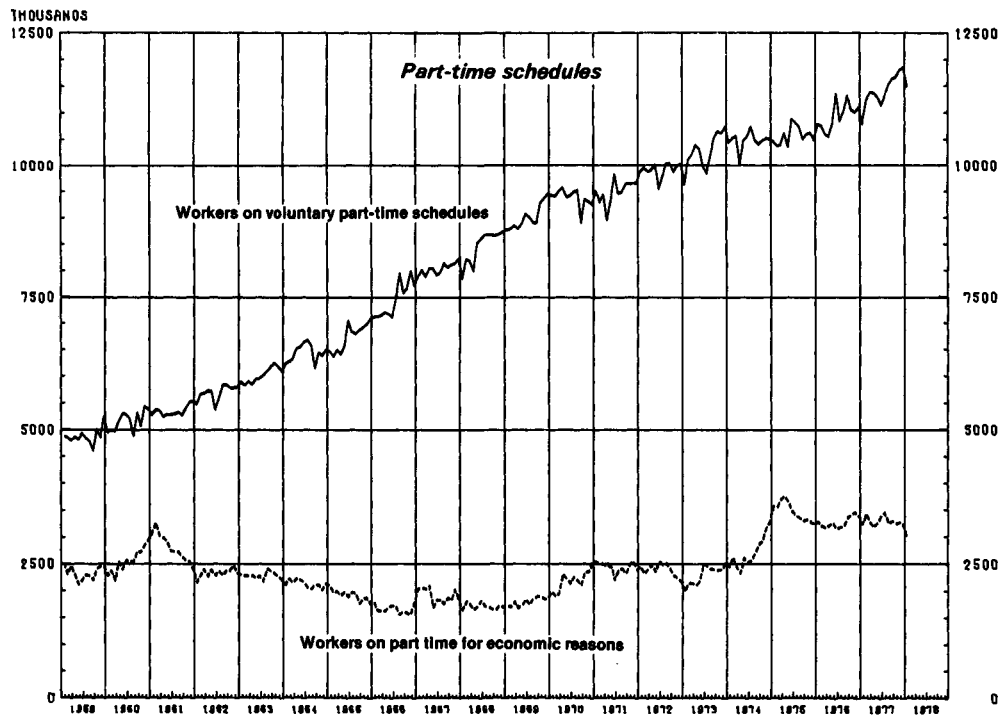
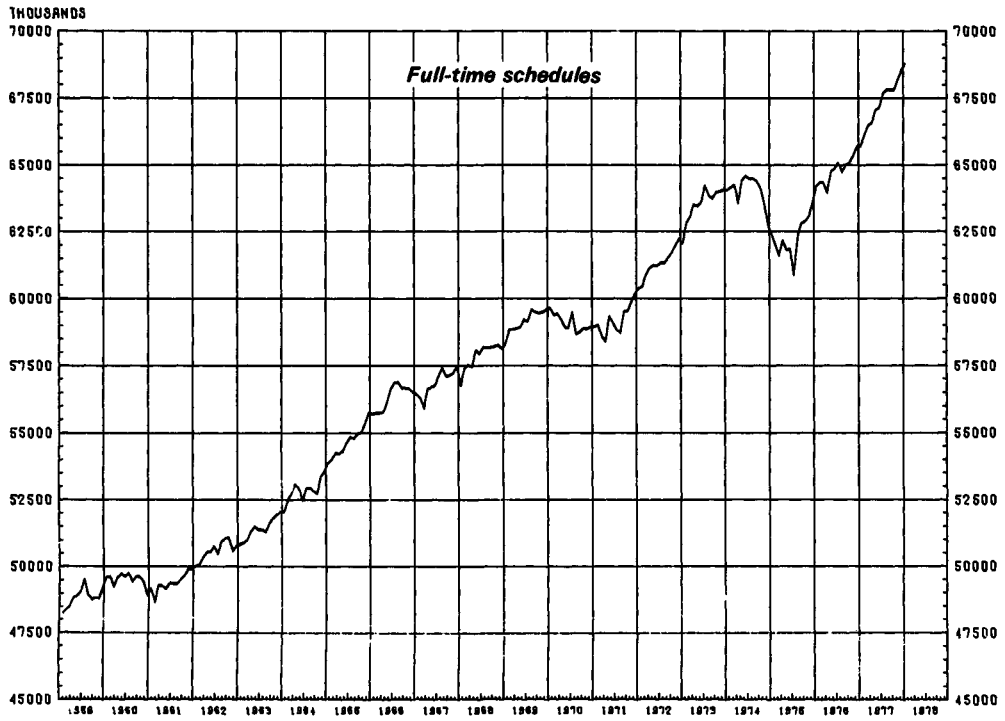
Chart 7. Nonagricultural payroll employment by industry
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

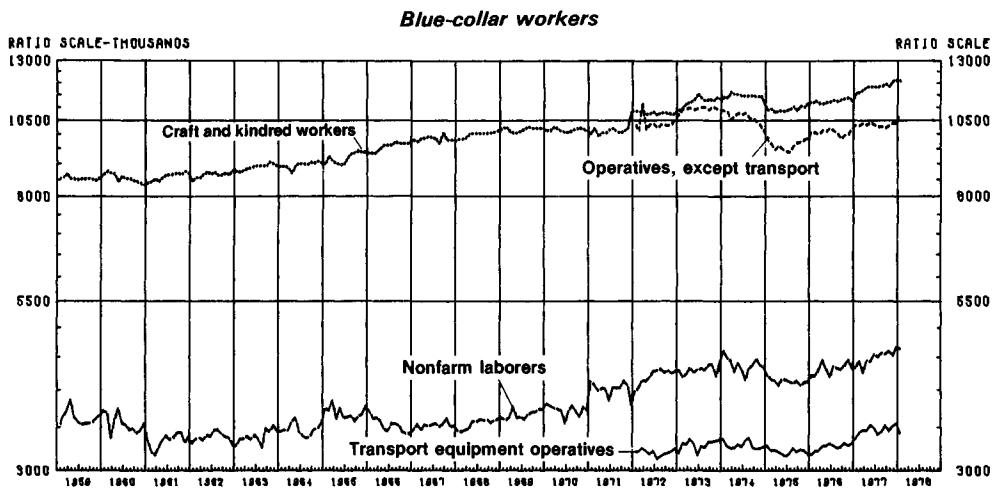
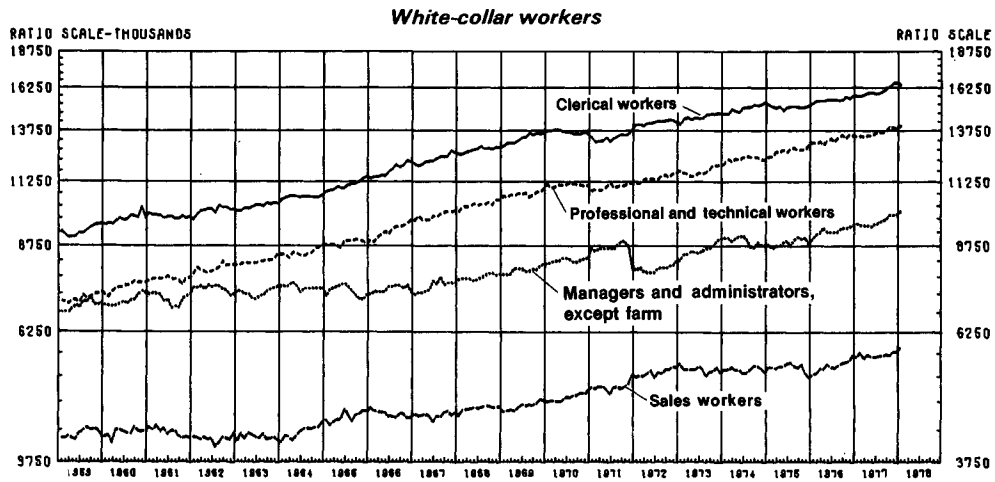
SOURCE: Table B-5.

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



SOURCE: Table A-42.

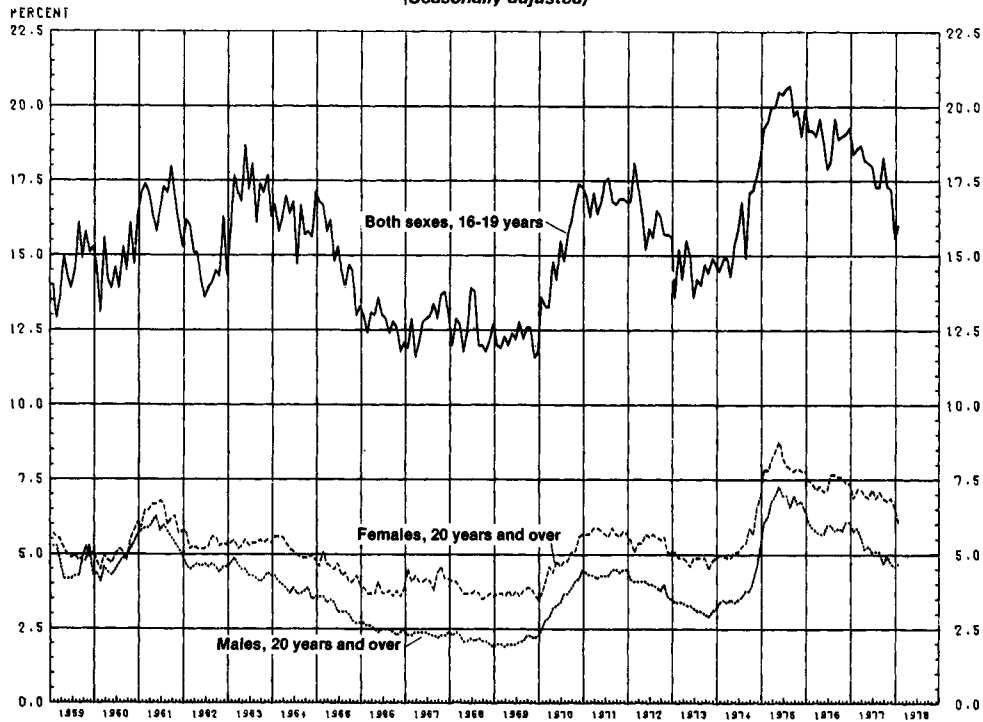
Chart 9. Employment in nonfarm occupations
(Seasonally adjusted)



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.

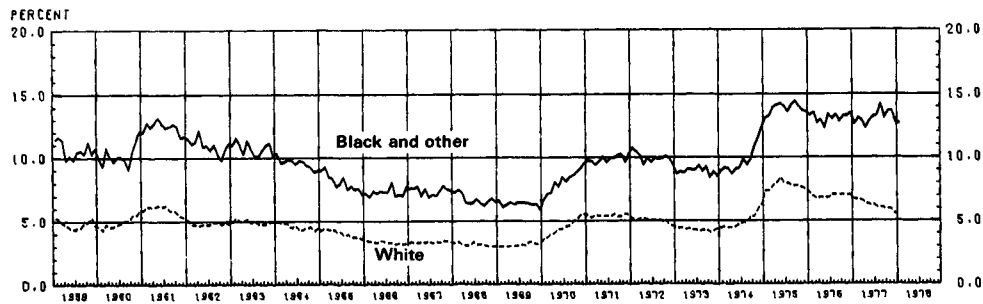
SOURCE: Table A-42.

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

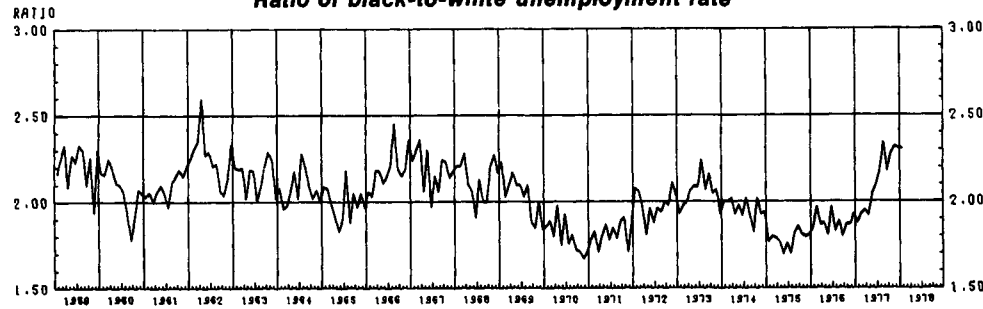


SOURCE: Table A-36.

Chart 11. Unemployment rates by race
(Seasonally adjusted)

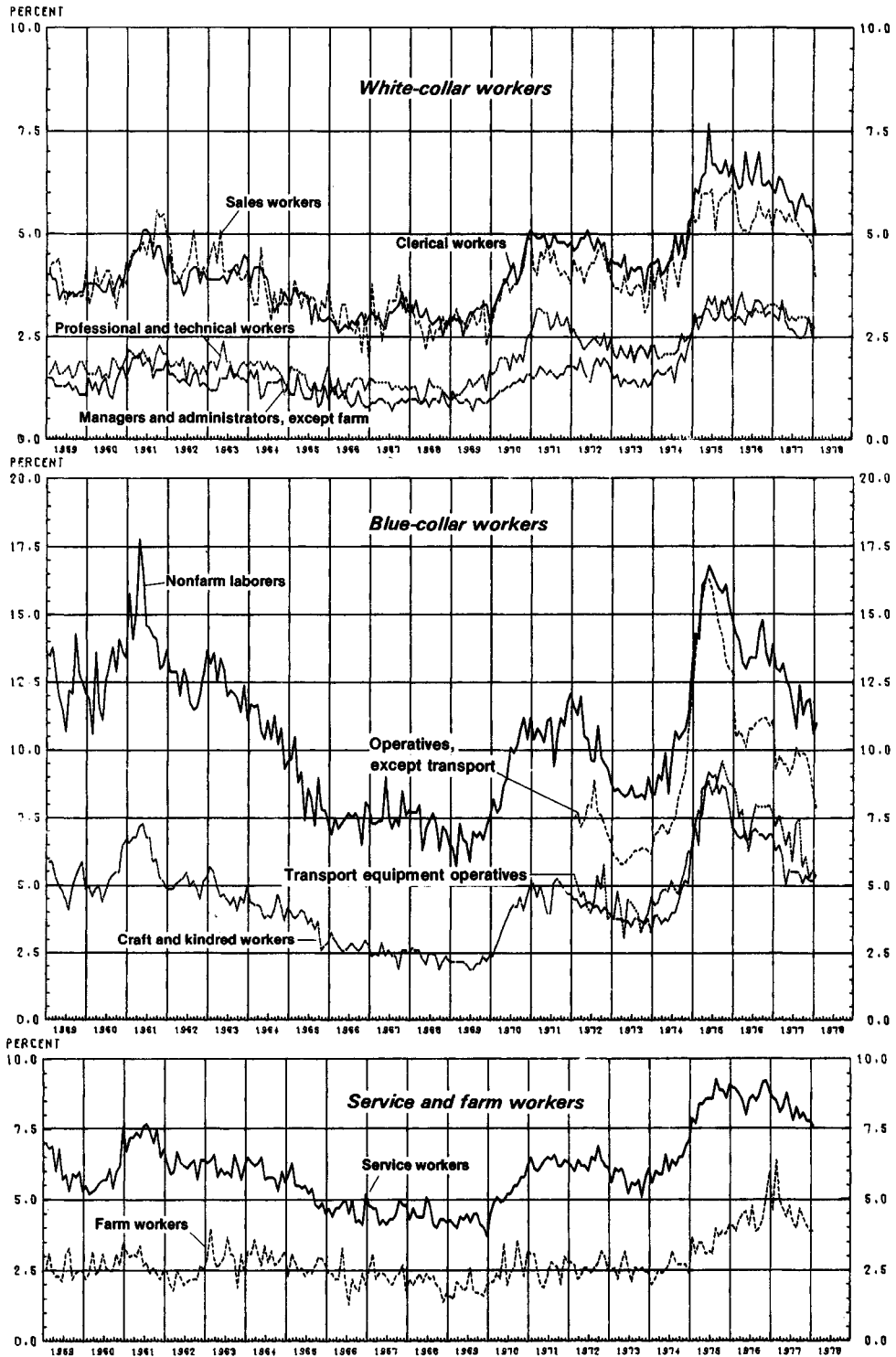


Ratio of black-to-white unemployment rate



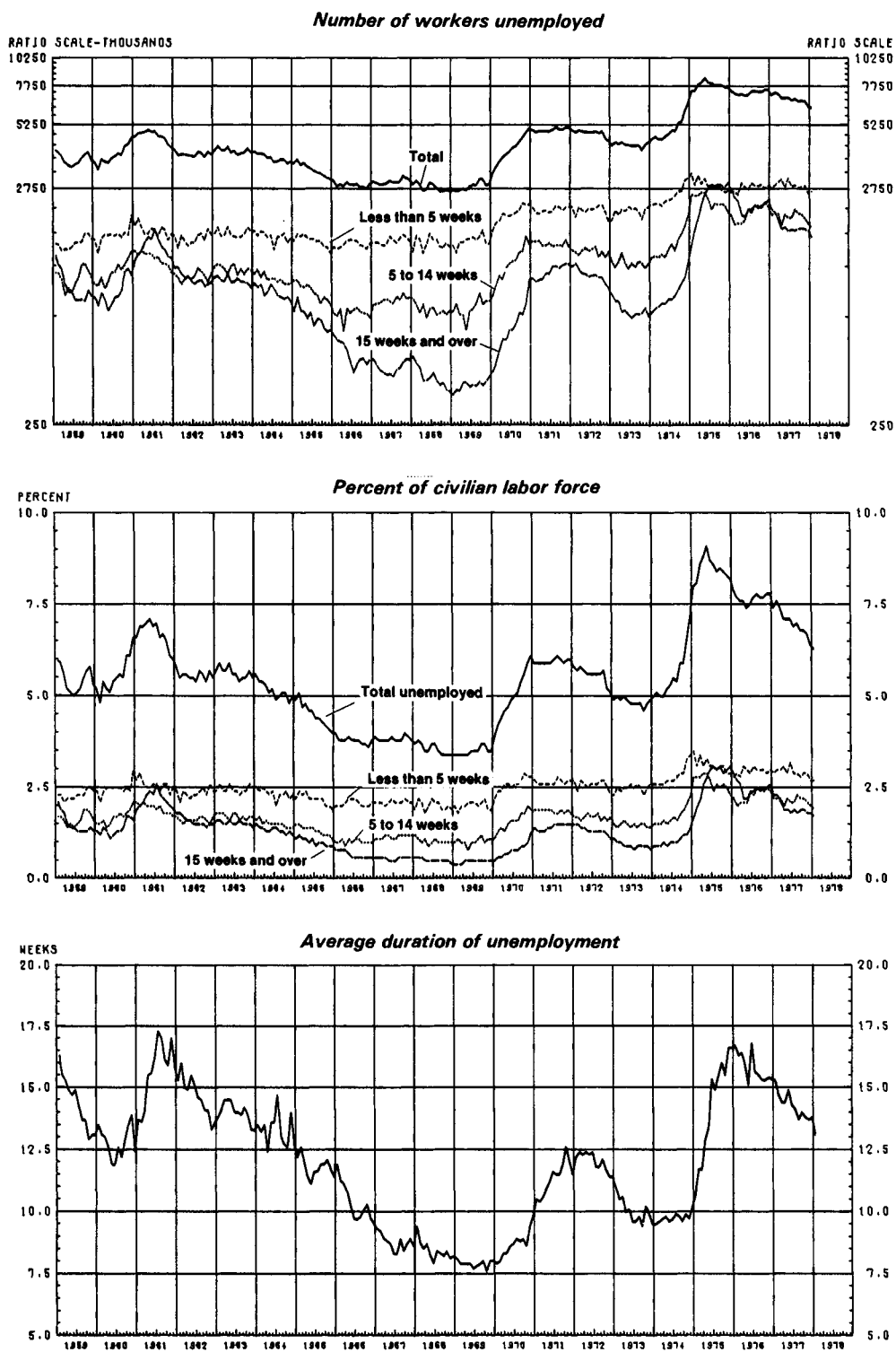
SOURCE: Table A-35.

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



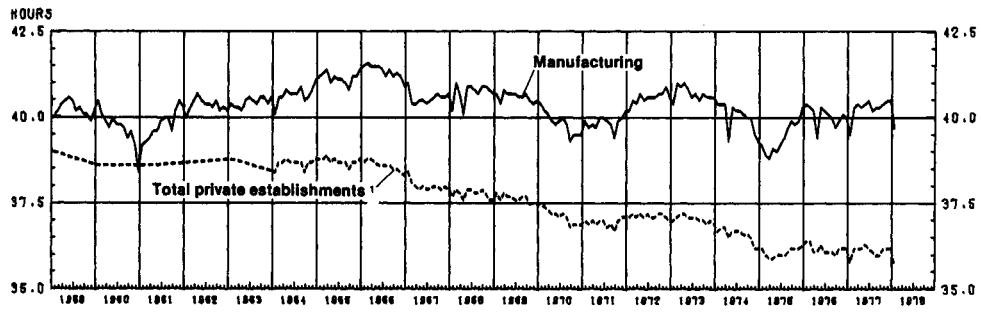
SOURCE: Table A-36.

Chart 13. Duration of unemployment
(Seasonally adjusted)

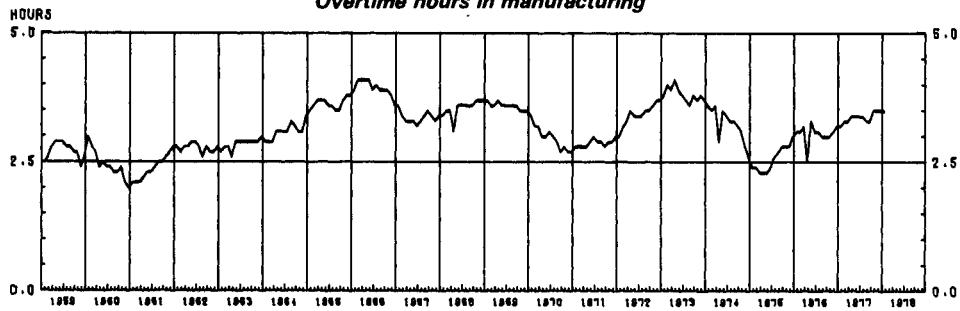


SOURCE: Table A-37.

Chart 14. Average weekly hours in nonagricultural industries
(Seasonally adjusted)



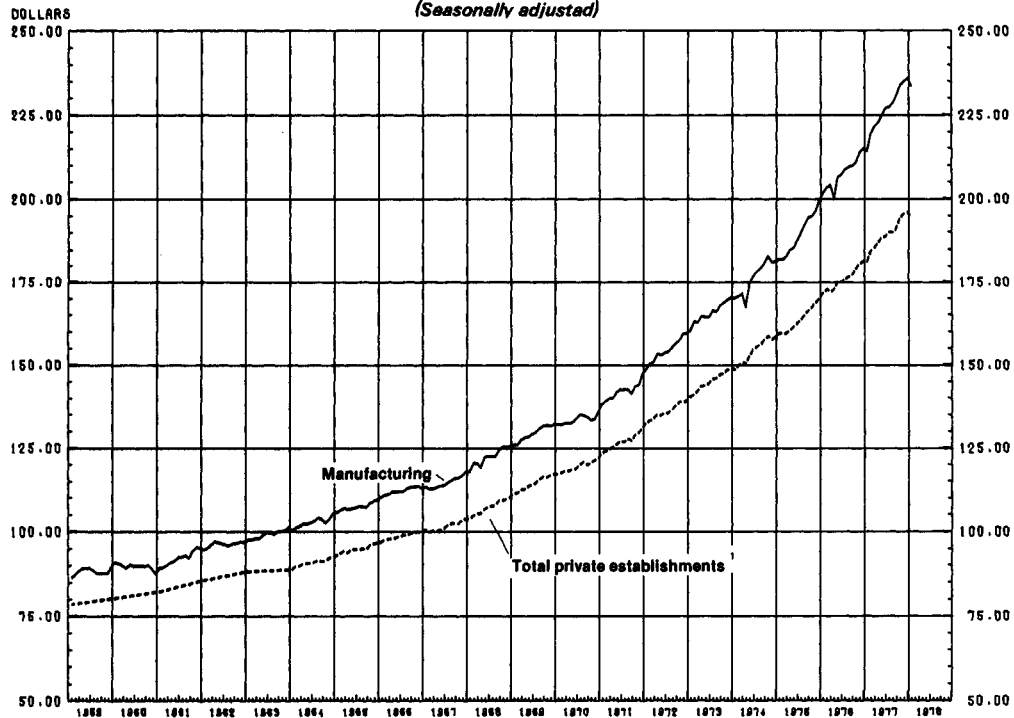
Overtime hours in manufacturing



¹ Annual averages prior to 1964.
NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

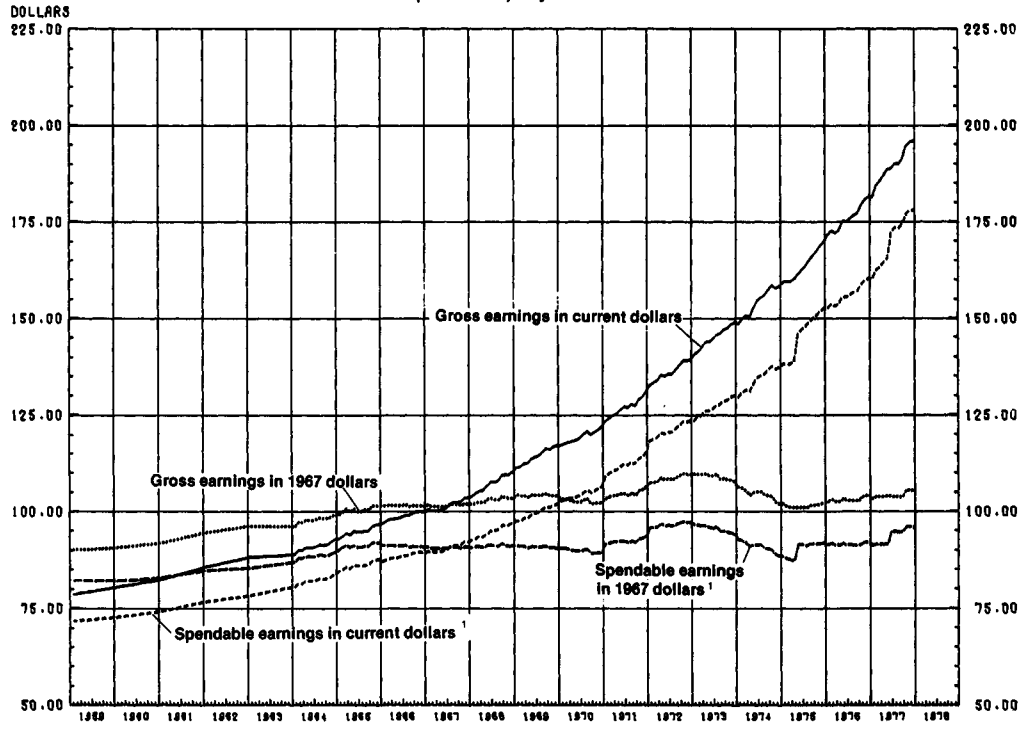
Chart 15. Average weekly earnings in nonagricultural industries
(Seasonally adjusted)



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)

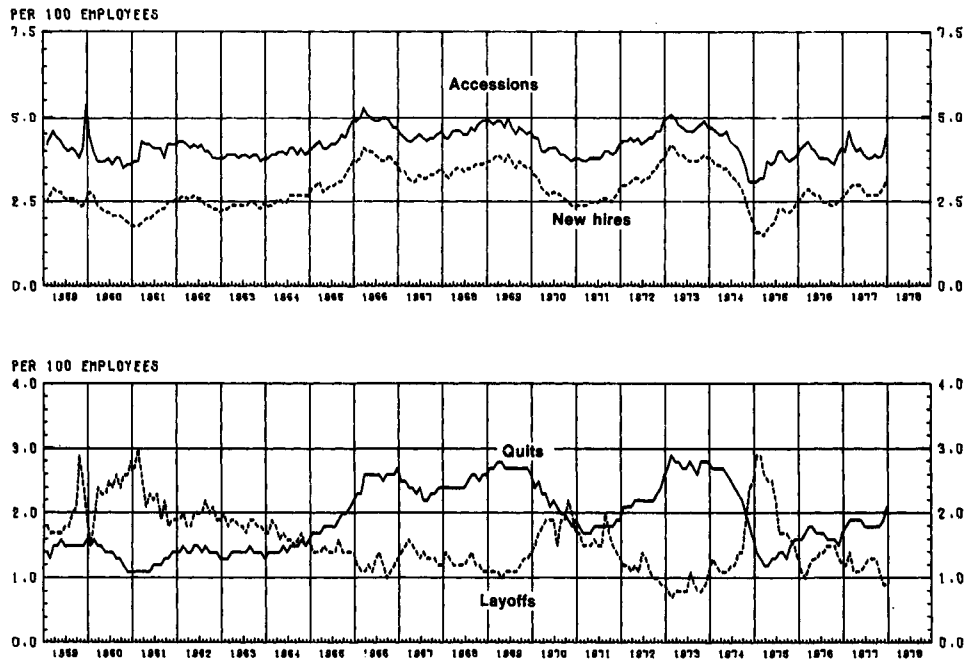


¹ Worker with three dependents.

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	Agriculture	Nonagricultural industries	Number	Percent of labor force	
TOTAL										
Annual averages										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	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.....	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
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
Monthly data, seasonally adjusted²										
1977:										
January.....	157,381	97,852	62.2	95,719	88,653	3,121	85,532	7,066	7.4	59,530
February.....	157,584	98,457	62.5	96,320	89,047	3,164	85,883	7,273	7.6	59,127
March.....	157,782	98,761	62.6	96,623	89,478	3,179	86,299	7,145	7.4	59,021
April.....	157,986	98,878	62.6	96,746	89,877	3,256	86,621	6,869	7.1	59,108
May.....	158,228	99,289	62.8	97,161	90,267	3,335	86,932	6,894	7.1	58,939
June.....	158,456	99,681	62.9	97,552	90,648	3,330	87,318	6,904	7.1	58,775
July.....	158,682	99,442	62.7	97,307	90,588	3,206	87,382	6,719	6.9	59,241
August.....	158,899	99,751	62.8	97,614	90,793	3,224	87,569	6,821	7.0	59,147
September.....	159,114	99,887	62.8	97,756	91,088	3,199	87,889	6,668	6.8	59,227
October.....	159,334	100,205	62.9	98,071	91,383	3,243	88,140	6,688	6.8	59,130
November.....	159,522	101,009	63.3	98,877	92,214	3,357	88,857	6,663	6.7	58,512
December.....	159,736	101,048	63.3	98,919	92,609	3,323	89,286	6,310	6.4	58,688
1978:										
January ¹	159,937	101,228	63.3	99,107	92,881	3,354	89,527	6,226	6.3	58,709

¹ Not strictly comparable with data for prior years. For an explanation, see "Historic Comparability" under the Household Data section of the 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	Agriculture	Nonagricultural 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
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
Monthly data, seasonally adjusted¹										
1977:										
January.....	75,422	58,823	78.0	56,801	52,962	2,581	50,381	3,839	6.8	16,599
February.....	75,519	59,098	78.3	57,072	53,094	2,579	50,515	3,978	7.0	16,421
March.....	75,610	59,138	78.2	57,113	53,301	2,585	50,716	3,812	6.7	16,472
April.....	75,706	59,093	78.1	57,074	53,482	2,621	50,861	3,592	6.3	16,613
May.....	75,823	59,297	78.2	57,282	53,644	2,700	50,944	3,638	6.4	16,526
June.....	75,932	59,563	78.4	57,549	54,006	2,693	51,313	3,543	6.2	16,370
July.....	76,041	59,418	78.1	57,399	53,901	2,613	51,288	3,498	6.1	16,623
August.....	76,144	59,496	78.1	57,475	53,942	2,647	51,295	3,533	6.1	16,647
September.....	76,246	59,332	77.8	57,318	53,964	2,630	51,334	3,354	5.9	16,915
October.....	76,352	59,826	78.4	57,810	54,341	2,642	51,699	3,469	6.0	16,526
November.....	76,439	60,112	78.6	58,097	54,745	2,685	52,060	3,352	5.8	16,327
December.....	76,541	60,236	78.7	58,225	55,012	2,702	52,310	3,213	5.5	16,305
1978:										
January ¹	77,830	60,210	77.4	58,207	54,975	2,749	52,226	3,232	5.6	16,426
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
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
Monthly data, seasonally adjusted²										
1977:										
January.....	81,959	39,029	47.6	38,918	35,691	540	35,151	3,227	8.3	42,931
February.....	82,065	39,359	48.0	39,248	35,953	585	35,368	3,295	8.4	42,706
March.....	82,172	39,624	48.2	39,510	36,177	594	35,583	3,333	8.4	42,549
April.....	82,280	39,785	48.4	39,672	36,395	635	35,760	3,277	8.3	42,495
May.....	82,405	39,992	48.5	39,879	36,623	635	35,988	3,256	8.2	42,413
June.....	82,524	40,119	48.6	40,003	36,642	637	36,005	3,361	8.4	42,405
July.....	82,642	40,024	48.4	39,908	36,687	593	36,094	3,221	8.1	42,618
August.....	82,755	40,255	48.6	40,139	36,851	577	36,274	3,288	8.2	42,500
September.....	82,868	40,556	48.9	40,438	37,124	569	36,555	3,314	8.2	42,312
October.....	82,983	40,379	48.7	40,261	37,042	601	36,441	3,219	8.0	42,604
November.....	83,082	40,898	49.2	40,780	37,469	672	36,797	3,311	8.1	42,185
December.....	83,195	40,812	49.1	40,694	37,597	621	36,976	3,097	7.6	42,385
1978:										
January ¹	84,481	41,017	48.6	40,900	37,906	605	37,301	2,994	7.3	42,284

¹ See footnote 1, table A-1.

² See footnote 2, table A-1.

HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	January 1978										
	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	59,337	77.4	57,334	53,608	3,726	6.5	17,299	278	4,516	1,632	10,872
16 to 21 years	8,278	65.0	7,582	6,314	1,268	16.7	4,463	13	3,814	40	595
16 to 19 years	4,915	57.9	4,593	3,786	807	17.6	3,573	7	3,179	18	368
16 to 17 years	1,905	44.9	1,872	1,499	373	19.9	2,337	3	2,200	6	128
18 to 19 years	3,010	70.9	2,721	2,286	434	16.0	1,236	4	979	12	240
20 to 64 years	52,565	89.3	50,884	48,062	2,822	5.5	6,273	129	1,335	1,165	3,644
20 to 24 years	8,557	85.2	7,813	6,841	972	12.4	1,486	14	997	35	440
25 to 54 years	37,034	94.5	36,099	34,484	1,615	4.5	2,169	53	333	598	1,185
25 to 29 years	8,298	94.5	7,927	7,365	562	7.1	485	7	198	61	219
30 to 34 years	7,356	95.9	7,114	6,787	327	4.6	312	12	82	56	163
35 to 39 years	5,940	96.7	5,748	5,556	193	3.4	205	5	26	54	121
40 to 44 years	5,191	95.5	5,100	4,924	176	3.5	246	5	14	87	139
45 to 49 years	5,148	93.2	5,115	4,944	171	3.3	375	17	10	136	212
50 to 54 years	5,100	90.3	5,094	4,908	185	3.6	546	8	3	204	332
55 to 64 years	6,974	72.7	6,972	6,737	235	3.4	2,618	62	5	533	2,020
55 to 59 years	4,309	82.0	4,307	4,165	142	3.3	947	28	2	294	623
60 to 64 years	2,665	61.5	2,665	2,572	93	3.5	1,672	34	3	238	1,397
65 years and over	1,857	20.0	1,857	1,760	97	5.2	7,453	142	2	449	6,860
65 to 69 years	1,068	28.8	1,008	1,009	60	5.6	2,633	39	1	166	2,427
70 years and over	790	14.1	790	753	37	4.7	4,820	103	1	283	4,433
White											
16 years and over	52,863	78.1	51,224	48,307	2,916	5.7	14,790	231	3,620	1,336	9,602
16 to 21 years	7,305	67.3	6,742	5,761	980	14.5	3,557	11	3,056	30	460
16 to 19 years	4,381	60.7	4,119	3,491	628	15.3	2,832	4	2,540	12	276
16 to 17 years	1,741	48.5	1,713	1,403	310	18.1	1,849	2	1,743	3	101
18 to 19 years	2,641	72.9	2,406	2,088	318	13.2	983	2	797	9	175
20 to 64 years	46,818	90.0	45,442	43,225	2,217	4.9	5,229	106	1,078	946	3,100
20 to 24 years	7,458	86.0	6,866	6,110	756	11.0	1,212	12	822	30	348
25 to 54 years	32,992	95.1	32,208	30,944	1,264	3.9	1,700	48	255	468	929
25 to 29 years	13,879	95.8	13,371	12,674	697	5.2	616	14	218	96	287
30 to 34 years	9,906	96.7	9,667	9,387	279	2.9	338	11	28	111	188
35 to 44 years	9,206	92.5	9,171	8,883	288	3.1	747	23	9	261	454
55 to 64 years	6,369	73.3	6,368	6,170	198	3.1	2,317	45	2	447	1,823
55 to 59 years	3,922	82.7	3,921	3,808	113	2.9	822	18	2	246	557
60 to 64 years	2,447	62.1	2,447	2,363	85	3.5	1,495	28	--	202	1,266
65 years and over	1,663	19.8	1,663	1,592	71	4.3	6,729	121	2	378	6,227
Black and other											
16 years and over	6,474	72.1	6,110	5,301	809	13.2	2,509	47	896	296	1,270
16 to 21 years	973	51.8	841	553	287	34.2	906	3	758	10	135
16 to 19 years	534	41.9	474	295	179	37.8	741	3	639	7	93
16 to 17 years	165	25.2	159	96	63	39.4	488	--	457	3	27
18 to 19 years	369	59.3	315	198	116	36.9	253	2	182	3	66
20 to 64 years	5,746	84.6	5,441	4,837	605	11.1	1,044	24	257	219	545
20 to 24 years	1,099	80.0	947	731	216	22.8	274	2	176	4	92
25 to 54 years	4,043	89.6	3,891	3,540	351	9.0	469	5	78	129	256
25 to 29 years	1,775	90.7	1,670	1,477	193	11.5	181	4	62	21	94
30 to 34 years	1,225	91.5	1,182	1,093	89	7.6	113	--	12	30	72
35 to 44 years	1,042	85.6	1,038	969	69	6.6	175	1	5	79	90
55 to 64 years	604	66.7	604	567	37	6.2	301	16	3	85	197
55 to 59 years	386	75.6	386	357	29	7.5	125	10	--	49	66
60 to 64 years	218	55.2	218	209	8	3.9	177	6	3	36	131
65 years and over	195	21.2	195	169	26	13.3	724	20	--	71	632

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	January 1978										
	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	40,734	48.9	40,616	37,445	3,172	7.8	42,567	33,231	4,438	1,004	3,895
16 to 21 years	6,684	53.5	6,636	5,560	1,077	16.2	5,800	1,447	3,853	23	477
16 to 19 years	4,011	48.3	3,993	3,261	732	18.3	4,299	683	3,290	13	312
16 to 17 years	1,573	38.3	1,573	1,262	310	19.7	2,537	178	2,237	6	116
18 to 19 years	2,437	58.0	2,420	1,999	422	17.4	1,763	506	1,053	7	196
20 to 64 years	35,595	57.7	35,496	33,108	2,388	6.7	26,144	22,879	1,139	408	1,718
20 to 24 years	6,708	66.9	6,644	5,895	749	11.3	3,322	2,191	804	21	306
25 to 54 years	24,423	59.6	24,388	22,934	1,454	6.0	16,563	15,169	320	207	868
25 to 29 years	5,571	62.2	5,547	5,120	426	7.7	3,384	3,008	164	25	187
30 to 34 years	4,583	58.2	4,576	4,293	284	6.2	3,289	3,019	68	31	172
35 to 39 years	3,928	60.7	3,926	3,673	253	6.4	2,543	2,340	38	33	132
40 to 44 years	3,570	62.1	3,569	3,385	184	5.2	2,176	2,028	26	38	83
45 to 49 years	3,468	59.5	3,468	3,321	146	4.2	2,362	2,184	20	23	135
50 to 64 years	3,303	54.1	3,303	3,141	161	4.9	2,807	2,590	3	56	158
55 to 64 years	4,463	41.6	4,463	4,279	185	4.1	6,259	5,520	15	181	543
55 to 59 years	2,832	49.0	2,832	2,725	107	3.8	2,943	2,643	8	84	207
60 to 64 years	1,631	33.0	1,631	1,553	78	4.8	3,316	2,877	7	97	336
65 years and over	1,128	8.5	1,128	1,076	52	4.6	12,124	9,668	9	582	1,865
65 to 69 years	712	15.3	712	666	46	6.5	3,953	3,333	4	95	520
70 years and over	416	4.8	416	410	6	1.5	8,172	6,335	5	487	1,345
White											
16 years and over	35,276	48.5	35,181	32,754	2,427	6.9	37,493	29,780	3,508	799	3,405
16 to 21 years	5,922	56.1	5,883	5,075	808	13.7	4,628	1,159	3,052	14	403
16 to 19 years	3,599	51.3	3,583	3,028	556	15.5	3,411	540	2,600	9	261
16 to 17 years	1,442	41.7	1,441	1,190	251	17.4	2,014	146	1,767	6	95
18 to 19 years	2,156	60.7	2,142	1,838	304	14.2	1,396	394	834	3	165
20 to 64 years	30,673	57.1	30,594	28,775	1,820	5.9	23,058	20,369	900	321	1,469
20 to 24 years	5,787	67.9	5,736	5,188	548	9.6	2,732	1,823	640	16	32
25 to 54 years	20,883	58.7	20,855	19,745	1,110	5.3	14,675	13,554	244	160	717
25 to 34 years	8,600	59.4	8,576	8,051	525	6.1	5,878	5,362	173	48	294
35 to 44 years	6,382	60.4	6,379	6,039	340	5.3	4,180	3,896	52	50	181
45 to 54 years	5,901	56.1	5,900	5,655	245	4.1	4,617	4,295	19	61	241
55 to 64 years	4,003	41.5	4,003	3,841	162	4.0	5,651	4,991	15	146	500
55 to 59 years	2,529	48.8	2,529	2,436	92	3.7	2,655	2,382	8	69	196
60 to 64 years	1,474	33.0	1,474	1,405	69	4.7	2,996	2,609	7	77	303
65 years and over	1,004	8.3	1,004	951	52	5.2	11,024	8,871	8	469	1,676
Black and other											
16 years and over	5,458	51.8	5,436	4,691	744	13.7	5,074	3,451	930	204	489
16 to 21 years	762	39.4	754	485	269	35.7	1,172	288	801	9	74
16 to 19 years	412	31.7	410	233	176	43.0	888	143	690	4	51
16 to 17 years	131	20.1	131	72	59	44.9	522	31	470	--	21
18 to 19 years	281	43.4	278	161	117	42.2	366	112	220	4	30
20 to 64 years	4,921	61.5	4,901	4,333	568	11.6	3,086	2,511	240	86	249
20 to 24 years	921	61.0	908	707	201	22.1	590	368	164	5	54
25 to 54 years	3,539	65.2	3,532	3,189	344	9.7	1,888	1,615	76	46	151
25 to 34 years	1,553	66.1	1,547	1,363	184	11.9	796	664	59	8	65
35 to 44 years	1,116	67.4	1,116	1,018	97	8.7	540	472	12	20	34
45 to 54 years	870	61.2	870	807	63	7.2	552	478	4	18	52
55 to 64 years	460	43.1	460	437	23	5.0	608	529	--	35	44
55 to 59 years	304	51.3	304	289	15	4.8	288	261	--	16	11
60 to 64 years	157	32.9	157	148	8	5.4	320	268	--	20	33
65 years and over	125	10.2	125	125	--	.1	1,100	797	--	114	189

HOUSEHOLD DATA

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	
	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978
MALES								
16 years and over	58,068	59,337	77.0	77.4	56,046	57,334	76.4	76.8
16 to 19 years	4,670	4,915	55.0	57.9	4,328	4,593	53.1	56.2
16 to 17 years	1,727	1,905	40.8	44.9	1,695	1,872	40.3	44.5
18 to 19 years	2,943	3,010	69.1	70.9	2,632	2,721	66.7	68.8
20 to 24 years	8,445	8,557	85.8	85.2	7,704	7,813	84.6	84.0
25 to 54 years	36,231	37,034	94.1	94.5	35,294	36,099	93.9	94.3
25 to 34 years	15,213	15,654	95.1	95.2	14,603	15,041	95.0	95.0
35 to 44 years	10,752	11,132	95.5	96.1	10,464	10,849	95.3	96.0
45 to 54 years	10,266	10,248	91.1	91.8	10,227	10,209	91.1	91.7
55 to 64 years	6,963	6,974	73.7	72.7	6,961	6,972	73.7	72.7
55 to 59 years	4,276	4,309	83.1	82.0	4,274	4,307	83.1	82.0
60 to 64 years	2,687	2,665	62.4	61.5	2,687	2,665	62.4	61.5
65 years and over	1,758	1,857	19.3	20.0	1,758	1,857	19.3	20.0
White								
16 years and over	51,873	52,863	77.8	78.1	50,202	51,224	77.2	77.6
16 to 19 years	4,198	4,381	58.0	60.7	3,914	4,119	56.3	59.3
16 to 17 years	1,595	1,741	44.4	48.5	1,569	1,713	44.0	48.1
18 to 19 years	2,603	2,641	71.4	72.9	2,345	2,406	69.3	71.0
20 to 24 years	7,377	7,458	86.5	86.0	6,783	6,866	85.5	85.0
25 to 54 years	32,358	32,992	94.8	95.1	31,567	32,208	94.7	95.0
25 to 34 years	13,541	13,879	95.9	95.8	13,029	13,371	95.8	95.6
35 to 44 years	9,554	9,906	95.9	96.7	9,310	9,667	95.8	96.6
45 to 54 years	9,263	9,206	92.0	92.5	9,228	9,171	92.0	92.5
55 to 64 years	6,350	6,369	74.1	73.3	6,349	6,368	74.1	73.3
55 to 59 years	3,889	3,922	83.6	82.7	3,887	3,921	83.6	82.7
60 to 64 years	2,461	2,447	62.9	62.1	2,461	2,447	62.9	62.1
65 years and over	1,590	1,663	19.3	19.8	1,590	1,663	19.3	19.8
Black and other								
16 years and over	6,195	6,474	70.9	72.1	5,844	6,110	69.7	70.9
16 to 19 years	472	534	37.5	41.9	414	474	34.5	39.0
16 to 17 years	132	165	20.4	25.2	127	159	19.9	24.6
18 to 19 years	340	369	55.5	59.3	287	315	51.3	55.4
20 to 24 years	1,069	1,099	81.0	80.0	921	947	78.6	77.6
25 to 54 years	3,873	4,043	88.4	89.6	3,727	3,891	88.0	89.3
25 to 34 years	1,672	1,775	89.3	90.7	1,574	1,670	88.7	90.2
35 to 44 years	1,197	1,225	91.8	91.5	1,154	1,182	91.5	91.3
45 to 54 years	1,004	1,042	83.4	85.6	1,000	1,038	83.3	85.6
55 to 64 years	613	604	69.3	66.7	613	604	69.3	66.7
55 to 59 years	387	386	78.9	75.6	387	386	78.9	75.6
60 to 64 years	226	218	57.4	55.2	226	218	57.4	55.2
65 years and over	169	195	18.9	21.2	169	195	18.9	21.2

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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	
	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978
FEMALES								
16 years and over	38,769	40,734	47.3	48.9	38,658	40,616	47.2	48.8
16 to 19 years	3,848	4,011	46.3	48.3	3,829	3,993	46.1	48.2
16 to 17 years	1,492	1,573	36.3	38.3	1,491	1,573	36.3	38.3
18 to 19 years	2,356	2,437	56.0	58.0	2,338	2,420	55.8	57.9
20 to 24 years	6,340	6,708	64.5	66.9	6,279	6,644	64.3	66.7
25 to 54 years	23,219	24,423	57.6	59.6	23,188	24,388	57.6	59.6
25 to 34 years	9,533	10,154	58.3	60.3	9,507	10,123	58.2	60.3
35 to 44 years	6,985	7,498	58.8	61.4	6,982	7,495	58.8	61.4
45 to 54 years	6,701	6,771	55.5	56.7	6,700	6,770	55.5	56.7
55 to 64 years	4,352	4,463	41.2	41.6	4,352	4,463	41.2	41.6
55 to 59 years	2,720	2,832	48.1	49.0	2,720	2,832	48.1	49.0
60 to 64 years	1,632	1,631	33.2	33.0	1,632	1,631	33.2	33.0
65 years and over	1,010	1,128	7.8	8.5	1,010	1,128	7.8	8.5
White								
16 years and over	33,728	35,276	47.0	48.5	33,638	35,181	47.0	48.4
16 to 19 years	3,481	3,599	49.5	51.3	3,464	3,583	49.4	51.2
16 to 17 years	1,383	1,442	40.0	41.7	1,383	1,441	39.9	41.7
18 to 19 years	2,097	2,156	58.7	60.7	2,082	2,142	58.6	60.5
20 to 24 years	5,518	5,787	65.9	67.9	5,469	5,736	65.7	67.7
25 to 54 years	19,916	20,883	56.8	58.7	19,891	20,855	56.8	58.7
25 to 34 years	8,061	8,600	57.1	59.4	8,039	8,576	57.1	59.3
35 to 44 years	5,958	6,382	58.0	60.4	5,955	6,379	58.0	60.4
45 to 54 years	5,897	5,901	55.3	56.1	5,896	5,900	55.3	56.1
55 to 64 years	3,922	4,003	41.1	41.5	3,922	4,003	41.1	41.5
55 to 59 years	2,440	2,529	48.0	48.8	2,440	2,529	48.0	48.8
60 to 64 years	1,481	1,474	33.3	33.0	1,481	1,474	33.3	33.0
65 years and over	892	1,004	7.6	8.3	892	1,004	7.6	8.3
Black and other								
16 years and over	5,041	5,458	49.3	51.8	5,020	5,436	49.2	51.7
16 to 19 years	368	412	28.6	31.7	365	410	28.5	31.6
16 to 17 years	109	131	16.8	20.1	109	131	16.8	20.1
18 to 19 years	259	281	40.6	43.4	256	278	40.4	43.2
20 to 24 years	822	921	56.4	61.0	810	908	56.0	60.6
25 to 54 years	3,303	3,539	62.7	65.2	3,297	3,532	62.7	65.2
25 to 34 years	1,472	1,553	65.5	66.1	1,467	1,547	65.4	66.0
35 to 44 years	1,027	1,116	63.7	67.4	1,027	1,116	63.7	67.4
45 to 54 years	804	870	57.1	61.2	803	870	57.1	61.2
55 to 64 years	430	460	41.3	43.1	430	460	41.3	43.1
55 to 59 years	280	304	49.3	51.3	280	304	49.3	51.3
60 to 64 years	150	157	31.7	32.9	150	157	31.7	32.9
65 years and over	118	125	10.0	10.2	118	125	10.0	10.2

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

[Numbers in thousands]

Sex and age	January 1978						Not in labor force	
	Civilian labor force					Percent of labor force		
	Total	Employed			Unemployed			
		Total	Agriculture	Nonagricultural industries	Number			
Total								
16 years and over	9,893	8,473	209	8,264	1,420	14.4	6,584	
16 to 19 years	777	443	3	440	334	43.0	1,440	
16 to 17 years	252	140	3	136	112	44.5	903	
18 to 19 years	525	303	--	303	222	42.2	557	
20 to 24 years	1,612	1,231	16	1,215	381	23.6	731	
25 to 54 years	6,283	5,651	118	5,533	631	10.0	1,977	
25 to 34 years	2,698	2,349	51	2,298	349	12.9	784	
35 to 44 years	1,960	1,794	34	1,760	166	8.5	558	
45 to 54 years	1,625	1,509	34	1,475	116	7.2	634	
55 to 64 years	941	891	49	842	50	5.3	817	
55 to 59 years	608	570	22	548	39	6.3	367	
60 to 64 years	333	322	27	295	11	3.3	450	
65 years and over	280	257	23	234	23	8.3	1,621	
Males								
16 years and over	5,215	4,472	181	4,291	743	14.2	2,187	
16 to 19 years	418	247	4	243	171	40.9	651	
16 to 17 years	140	82	4	78	58	41.6	437	
18 to 19 years	278	165	--	165	113	40.6	213	
20 to 24 years	825	636	14	623	189	22.9	222	
25 to 54 years	3,285	2,956	105	2,851	329	10.0	407	
25 to 34 years	1,393	1,211	46	1,165	182	13.1	147	
35 to 44 years	1,013	930	26	904	83	8.2	95	
45 to 54 years	879	815	33	782	64	7.3	164	
55 to 64 years	522	492	41	451	30	5.8	278	
55 to 59 years	332	308	18	290	24	7.2	118	
60 to 64 years	190	184	23	161	6	3.3	160	
65 years and over	164	141	18	123	23	14.0	629	
Females								
16 years and over	4,678	4,001	28	3,973	677	14.5	4,398	
16 to 19 years	359	196	--	197	163	45.4	789	
16 to 17 years	111	58	--	58	54	48.2	466	
18 to 19 years	248	138	--	139	109	44.1	323	
20 to 24 years	787	595	2	592	192	24.4	509	
25 to 54 years	2,998	2,696	14	2,682	302	10.1	1,570	
25 to 34 years	1,305	1,138	5	1,133	167	12.8	637	
35 to 44 years	947	864	8	856	83	8.8	463	
45 to 54 years	746	693	1	693	52	7.0	469	
55 to 64 years	419	399	8	391	19	4.6	539	
55 to 59 years	276	261	3	258	15	5.4	249	
60 to 64 years	142	138	4	133	5	3.3	289	
65 years and over	115	115	5	111	--	.1	991	

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	
	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978
TOTAL								
Total noninstitutional population	157,381	159,937	66,930	68,148	73,642	74,991	16,810	16,798
Total labor force	96,837	100,071	53,398	54,422	34,921	36,723	8,518	8,926
Percent of population	61.5	62.6	79.8	79.9	47.4	49.0	50.7	53.1
Civilian labor force	94,704	97,950	51,718	52,741	34,829	36,624	8,157	8,585
Employed	86,856	91,053	48,174	49,822	32,205	34,184	6,477	7,046
Agriculture	2,672	2,868	2,030	2,171	394	421	248	275
Nonagricultural industries	84,184	88,185	46,144	47,651	31,811	33,763	6,229	6,771
Unemployed	7,848	6,897	3,544	2,919	2,623	2,440	1,680	1,539
Percent of labor force	8.3	7.0	6.9	5.5	7.5	6.7	20.6	17.9
Not in labor force	60,544	59,866	13,532	13,726	38,721	38,268	8,291	7,872
White								
Total noninstitutional population	138,415	140,421	59,452	60,439	64,694	65,759	14,268	14,223
Total labor force	85,601	88,138	47,674	48,481	30,248	31,677	7,679	7,980
Percent of population	61.8	62.8	80.2	80.2	46.8	48.2	53.8	56.1
Civilian labor force	83,839	86,405	46,288	47,105	30,173	31,598	7,378	7,702
Employed	77,450	81,061	43,374	44,817	28,085	29,726	5,991	6,518
Agriculture	2,480	2,617	1,875	1,962	368	386	237	268
Nonagricultural industries	74,970	78,444	41,499	42,854	27,717	29,340	5,754	6,250
Unemployed	6,389	5,344	2,913	2,288	2,089	1,872	1,388	1,184
Percent of labor force	7.6	6.2	6.3	4.9	6.9	5.9	18.8	15.4
Not in labor force	52,814	52,283	11,778	11,958	34,447	34,082	6,589	6,243
Black and other								
Total noninstitutional population	18,966	19,516	7,477	7,709	8,947	9,231	2,541	2,575
Total labor force	11,236	11,932	5,724	5,941	4,673	5,046	839	946
Percent of population	59.2	61.1	76.5	77.1	52.2	54.7	33.0	36.7
Civilian labor force	10,864	11,546	5,430	5,636	4,655	5,026	779	883
Employed	9,406	9,992	4,799	5,006	4,121	4,458	486	528
Agriculture	192	251	155	209	27	35	10	7
Nonagricultural industries	9,214	9,741	4,644	4,797	4,094	4,423	476	521
Unemployed	1,458	1,554	631	631	535	568	293	355
Percent of labor force	13.4	13.5	11.6	11.2	11.5	11.3	37.6	40.2
Not in labor force	7,730	7,583	1,754	1,768	4,274	4,186	1,702	1,629

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

[Numbers in thousands]

Employment status	January 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Total noninstitutional population	25,226	12,742	12,485	21,412	10,862	10,550	3,814	1,879	1,934
Total labor force	14,963	8,278	6,684	13,227	7,305	5,922	1,736	973	762
Percent of population	59.3	65.0	53.5	61.8	67.3	56.1	45.5	51.8	39.4
Civilian labor force	14,219	7,582	6,636	12,624	6,742	5,883	1,594	841	754
Employed	11,874	6,314	5,560	10,836	5,761	5,075	1,038	553	485
Agriculture	386	305	80	375	294	81	11	11	--
Nonagricultural industries	11,488	6,009	5,479	10,461	5,467	4,993	1,028	542	486
Unemployed	2,344	1,268	1,077	1,788	980	808	556	287	269
Percent of labor force	16.5	16.7	16.2	14.2	14.5	13.7	34.9	34.2	35.7
Looking for full-time work	1,410	801	609	1,054	610	444	355	190	165
Looking for part-time work	935	467	468	734	370	364	201	97	104
Not in labor force	10,263	4,463	5,800	8,185	3,557	4,268	2,078	906	1,172
MAJOR ACTIVITY: GOING TO SCHOOL									
Civilian labor force	4,048	2,166	1,882	3,617	1,938	1,679	432	228	204
Employed	3,181	1,691	1,490	2,943	1,566	1,377	238	125	113
Agriculture	108	88	21	105	84	21	3	3	--
Nonagricultural industries	3,073	1,603	1,470	2,838	1,482	1,356	235	122	113
Unemployed	867	475	392	674	372	302	193	103	90
Percent of labor force	21.4	21.9	20.8	18.6	19.2	18.0	44.8	45.3	44.2
Looking for full-time work	115	70	44	80	47	33	35	23	12
Looking for part-time work	752	405	348	594	325	269	159	80	79
Not in labor force	7,667	3,814	3,853	6,108	3,056	3,052	1,559	758	801
MAJOR ACTIVITY: OTHER									
Civilian labor force	10,170	5,416	4,754	9,008	4,804	4,204	1,163	612	550
Employed	8,693	4,624	4,070	7,893	4,195	3,698	800	428	372
Agriculture	278	218	60	270	210	61	7	8	--
Nonagricultural industries	8,415	4,406	4,010	7,623	3,986	3,637	793	420	372
Unemployed	1,477	793	685	1,114	608	506	363	184	179
Percent of labor force	14.5	14.6	14.4	12.4	12.7	12.0	31.2	30.1	32.5
Looking for full-time work	1,295	730	564	974	563	411	320	167	153
Looking for part-time work	182	62	120	140	45	95	42	17	25
Not in labor force	2,596	649	1,947	2,077	501	1,576	519	148	371

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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	January 1978								
	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 ¹	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
Both sexes, 16 years and over	82,743	74,286	3,086	5,371	6.5	15,208	13,681	1,527	10.0
16 to 21 years	8,525	6,452	663	1,410	16.5	5,693	4,759	935	16.4
16 to 19 years	4,027	2,884	401	742	18.4	4,559	3,761	797	17.5
16 to 17 years	635	366	100	169	26.6	2,810	2,296	514	18.3
18 to 19 years	3,392	2,518	301	573	16.9	1,749	1,466	283	16.2
20 years and over	78,716	71,402	2,685	4,629	5.9	10,649	9,919	730	6.9
20 to 24 years	12,355	10,229	637	1,489	12.1	2,102	1,871	232	11.0
25 years and over	66,361	61,173	2,048	3,140	4.7	8,547	8,048	498	5.8
25 to 54 years	54,746	50,407	1,628	2,710	5.0	5,740	5,382	358	6.2
55 years and over	11,614	10,765	420	430	3.7	2,807	2,667	140	5.0
Males, 16 years and over	52,165	47,709	1,402	3,054	5.9	5,169	4,497	672	13.0
16 to 21 years	4,748	3,639	309	801	16.9	2,834	2,367	467	16.5
16 to 19 years	2,259	1,662	190	407	18.0	2,334	1,933	400	17.2
20 years and over	49,906	46,047	1,212	2,647	5.3	2,835	2,563	272	9.6
20 to 24 years	6,935	5,748	336	851	12.3	878	757	121	13.8
25 years and over	42,971	40,299	876	1,796	4.2	1,957	1,806	151	7.7
25 to 54 years	35,314	33,124	664	1,528	4.3	785	697	87	11.1
55 years and over	7,657	7,176	212	269	3.5	1,173	1,110	64	5.5
Females, 16 years and over	30,577	26,577	1,684	2,317	7.6	10,039	9,184	855	8.5
16 to 21 years	3,777	2,814	355	609	16.1	2,859	2,391	468	16.4
16 to 19 years	1,768	1,222	211	335	18.9	2,225	1,828	397	17.8
20 years and over	28,810	25,355	1,473	1,982	6.9	7,814	7,356	458	5.9
20 to 24 years	5,420	4,482	300	638	11.8	1,224	1,114	111	9.0
25 years and over	23,390	20,873	1,173	1,344	5.7	6,590	6,242	347	5.3
25 to 54 years	19,432	17,284	965	1,184	6.1	4,956	4,685	270	5.4
55 years and over	3,958	3,590	208	160	4.0	1,634	1,558	76	4.7
White									
Males, 16 years and over	46,637	43,067	1,173	2,397	5.1	4,587	4,068	519	11.3
16 to 21 years	4,184	3,301	272	610	14.6	2,558	2,188	370	14.5
16 to 19 years	2,007	1,529	171	308	15.3	2,112	1,791	321	15.2
20 years and over	44,629	41,537	1,002	2,090	4.7	2,476	2,277	198	8.0
20 to 24 years	6,089	5,146	281	662	10.9	778	684	93	12.0
25 years and over	38,540	36,391	721	1,428	3.7	1,698	1,593	105	6.2
25 to 54 years	31,548	29,821	527	1,202	3.8	660	598	62	9.4
55 years and over	6,993	6,572	195	226	3.2	1,038	995	43	4.1
Females, 16 years and over	26,058	22,932	1,397	1,729	6.6	9,123	8,424	699	7.7
16 to 21 years	3,290	2,532	314	444	13.5	2,592	2,228	364	14.0
16 to 19 years	1,567	1,124	193	251	16.0	2,016	1,711	305	15.1
20 years and over	24,491	21,808	1,204	1,478	6.0	7,107	6,713	394	5.5
20 to 24 years	4,628	3,921	248	458	9.9	1,108	1,019	90	8.1
25 years and over	19,863	17,887	956	1,020	5.1	5,999	5,694	304	5.1
25 to 54 years	16,293	14,631	789	874	5.4	4,561	4,325	237	5.2
55 years and over	3,570	3,256	168	146	4.1	1,436	1,369	67	4.7
Black and other									
Males, 16 years and over	5,529	4,642	230	657	11.9	581	429	153	26.3
16 to 21 years	564	338	36	190	33.7	276	179	97	35.2
16 to 19 years	252	132	20	99	39.5	222	143	79	35.8
20 years and over	5,277	4,510	210	557	10.6	359	286	73	20.4
20 to 24 years	847	602	56	189	22.3	100	73	28	27.5
25 years and over	4,430	3,908	154	368	8.3	259	213	45	17.4
25 to 54 years	3,766	3,303	137	326	8.7	125	99	25	20.0
55 years and over	664	605	17	43	6.5	135	114	20	14.8
Females, 16 years and over	4,519	3,645	287	588	13.0	916	760	156	17.1
16 to 21 years	487	282	40	165	33.9	267	163	104	38.9
16 to 19 years	201	98	18	84	42.0	209	117	92	44.1
20 years and over	4,319	3,546	268	504	11.7	707	643	64	9.1
20 to 24 years	792	560	52	179	22.7	116	95	21	18.3
25 years and over	3,527	2,986	216	325	9.2	591	548	43	7.3
25 to 54 years	3,139	2,653	176	310	9.9	394	360	35	8.9
55 years and over	387	333	41	14	3.6	197	189	9	4.6

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	January 1978									
	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	97,950	62.1	91,053	6,897	7.0	59,866	33,509	8,954	2,636	14,767
Husbands ¹	40,259	81.6	38,785	1,473	3.7	9,080	93	208	1,089	7,691
With employed wife	19,462	91.7	18,823	639	3.3	1,756	31	111	317	1,298
With unemployed wife	1,250	91.4	1,116	134	10.7	118	3	14	23	77
With wife not in labor force	18,136	72.8	17,511	625	3.4	6,777	34	61	697	5,985
Wives	22,588	47.6	21,219	1,368	6.1	24,913	23,112	233	277	1,291
With employed husband	19,940	53.2	18,824	1,116	5.6	17,510	16,534	197	88	693
With unemployed husband	773	55.3	639	134	17.3	625	589	8	5	23
With husband not in labor force	1,874	21.7	1,756	118	6.3	6,777	5,989	28	184	575
Relatives in husband-wife families	13,277	57.6	11,319	1,958	14.7	9,759	1,381	6,345	405	1,626
16-19 years	6,160	51.8	5,165	995	16.2	5,733	157	5,120	19	438
20-24 years	4,654	72.9	3,980	674	14.5	1,734	203	1,117	40	375
25 years and over	2,463	51.8	2,174	289	11.7	2,292	1,021	108	346	813
Women who head families	4,626	57.5	4,241	385	8.3	3,424	2,834	109	123	356
Relatives in female-headed families	3,858	53.8	3,109	749	19.4	3,318	863	1,417	273	764
16-19 years	1,237	46.9	902	335	27.1	1,401	97	1,115	10	179
20-24 years	1,130	68.4	872	259	22.9	521	111	262	16	132
25 years and over	1,491	51.7	1,335	155	10.4	1,396	655	40	247	453
Persons not living in families ²	13,342	58.7	12,380	964	7.2	9,372	5,226	642	469	3,039

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	
	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978
Total, 16 years and over	4,428	3,726	7.9	6.5	3,420	3,172	8.8	7.8
Married, spouse present	1,971	1,493	5.0	3.8	1,574	1,421	7.1	6.2
Widowed, divorced, or separated	460	382	11.4	8.9	626	584	8.8	7.6
Single (never married)	1,997	1,851	16.2	13.9	1,220	1,167	12.9	11.7
White, 16 years and over	3,649	2,916	7.3	5.7	2,740	2,427	8.1	6.9
Married, spouse present	1,714	1,254	4.7	3.5	1,388	1,172	7.0	5.7
Widowed, divorced, or separated	355	255	10.9	7.4	442	426	7.7	7.0
Single (never married)	1,581	1,407	14.7	12.1	910	829	11.2	9.7
Black and other, 16 years and over	778	809	13.3	13.2	680	744	13.5	13.7
Married, spouse present	257	239	7.3	6.6	185	249	8.2	10.2
Widowed, divorced, or separated	105	127	13.6	15.1	184	158	13.0	10.1
Single (never married)	416	444	26.7	26.5	310	338	22.9	23.3
Total, 20 to 64 years of age	3,420	2,822	6.8	5.5	2,579	2,388	7.6	6.7
Married, spouse present	1,841	1,407	4.8	3.7	1,452	1,315	6.8	5.9
Widowed, divorced, or separated	432	352	11.3	8.7	571	536	8.8	7.7
Single (never married)	1,149	1,064	14.1	12.0	556	535	9.2	8.4
White, 20 to 64 years of age	2,813	2,217	6.3	4.9	2,048	1,820	7.0	5.9
Married, spouse present	1,602	1,178	4.6	3.4	1,274	1,088	6.7	5.5
Widowed, divorced, or separated	330	238	10.7	7.3	402	378	7.8	6.9
Single (never married)	881	801	12.6	10.5	372	354	7.4	6.7
Black and other, 20 to 64 years of age	607	605	11.5	11.1	532	568	11.7	11.6
Married, spouse present	238	229	7.0	6.6	177	228	8.1	9.7
Widowed, divorced, or separated	101	114	13.8	14.5	169	159	12.9	10.8
Single (never married)	268	262	23.4	21.9	184	181	17.9	16.7

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978
Total	7,848	6,897	8.3	7.0	7.9	6.5	8.8	7.8
White-collar workers	2,275	1,906	4.9	3.9	3.8	2.7	5.8	5.0
Professional and technical	454	391	3.2	2.7	3.1	2.1	3.4	3.4
Managers and administrators, except farm	327	291	3.3	2.8	3.0	2.1	4.3	5.3
Sales workers	398	288	6.7	4.8	5.2	3.5	8.8	6.3
Clerical workers	1,098	937	6.4	5.3	5.7	4.8	6.6	5.5
Blue-collar workers	3,449	2,974	10.8	9.1	10.2	8.5	13.6	12.1
Craft and kindred workers	981	856	8.0	6.8	8.0	6.7	8.4	9.0
Carpenters and other construction craft	548	499	15.1	12.6	15.1	12.6	(1)	(1)
All other	433	357	5.0	4.1	4.8	3.8	7.9	8.3
Operatives, except transport	1,315	1,144	11.6	9.9	9.6	8.2	14.6	12.4
Transport equipment operatives	336	252	9.2	6.9	9.4	6.8	6.8	8.9
Nonfarm laborers	817	722	17.7	15.1	18.1	15.1	14.6	15.1
Construction laborers	266	230	32.2	25.3	32.3	25.6	(1)	(1)
All other	551	492	14.6	12.7	14.6	12.4	14.3	15.3
Service workers	1,192	1,105	9.3	8.1	9.0	7.8	9.4	8.3
Private household	61	61	5.1	4.9	(1)	(1)	4.7	5.0
All other	1,131	1,045	9.7	8.5	9.0	7.8	10.2	8.9
Farm workers	147	131	6.1	5.1	5.2	3.8	11.3	12.3
No previous work experience	785	781	--	--	--	--	--	--
16 to 19 years	590	573	--	--	--	--	--	--
20 to 24 years	114	142	--	--	--	--	--	--
25 years and over	81	66	--	--	--	--	--	--

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	
	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978
Total	100.0	100.0	8.3	7.0	7.9	6.5	8.8	7.8
Nonagricultural private wage and salary workers	76.9	75.1	8.8	7.3	8.5	6.8	9.1	7.9
Mining	.5	.7	5.3	5.5	5.3	5.2	5.5	7.5
Construction	11.7	10.9	21.3	16.8	21.9	17.2	11.5	12.1
Manufacturing	22.5	20.9	8.3	6.6	6.6	5.1	12.0	9.9
Durable goods	12.5	11.4	7.8	6.1	6.5	5.2	11.6	9.1
Lumber and wood products	.9	1.1	10.2	11.2	10.0	10.9	12.1	13.5
Furniture and fixtures	.7	.6	9.4	7.6	7.2	7.0	15.3	8.8
Stone, clay, and glass products	1.1	.8	11.6	7.0	11.0	5.5	13.6	12.4
Primary metal industries	1.4	1.2	8.1	6.6	8.2	6.3	7.4	8.6
Fabricated metal products	1.6	1.4	8.9	6.6	8.9	5.9	8.8	9.4
Machinery, except electrical equipment	1.4	1.5	4.8	4.1	4.7	3.4	5.6	7.4
Electrical equipment	1.9	1.9	6.8	5.8	3.7	4.1	11.0	8.1
Transportation equipment	1.6	1.4	6.0	4.4	5.2	4.2	10.8	6.0
Automobiles	.6	.6	4.0	3.5	3.6	3.5	5.9	3.7
Other transportation equipment	1.0	.7	8.4	5.7	7.0	5.1	15.9	9.0
Instruments and related products	.5	.3	6.5	3.7	3.1	2.6	11.1	5.1
Other durable goods industries	1.4	1.3	16.4	11.8	9.8	7.4	24.5	17.3
Nondurable goods	10.0	9.5	9.1	7.2	6.8	5.0	12.3	10.5
Food and kindred products	2.7	2.3	11.9	8.1	9.4	6.9	18.3	11.3
Textile mill products	1.2	1.1	9.2	7.4	7.0	4.5	11.6	10.8
Apparel and other textile products	2.2	2.5	13.0	12.3	13.1	6.4	13.0	13.9
Paper and allied products	.6	.4	7.4	4.1	5.1	2.4	15.0	9.9
Printing and publishing	1.2	1.0	6.3	5.0	4.6	3.9	9.0	6.6
Chemicals and allied products	.7	.6	5.1	3.7	3.7	3.1	8.9	5.4
Rubber and plastics products	.7	.9	7.4	7.6	6.3	5.6	9.6	11.0
Other nondurable goods industries	.7	.7	8.5	7.1	7.5	6.7	10.1	7.5
Transportation and public utilities	3.5	3.7	5.5	5.0	5.8	5.1	4.6	4.6
Railroads and railway express	.4	.4	5.0	5.4	5.4	5.6	(1)	(1)
Other transportation	2.2	2.4	7.4	6.6	8.3	6.9	3.8	5.7
Communication and other public utilities	.9	.9	3.5	2.9	2.4	2.2	5.4	4.1
Wholesale and retail trade	21.9	21.6	9.7	8.2	8.2	6.9	11.6	9.8
Finance, insurance, and real estate	2.6	2.4	4.4	3.4	5.0	3.4	4.0	3.3
Service industries	14.2	15.1	7.3	6.5	7.9	6.1	6.9	6.7
Professional services	5.4	6.0	5.0	4.5	4.4	3.5	5.3	4.9
All other service industries	8.8	9.1	10.3	9.2	11.1	8.5	9.6	9.7
Agricultural wage and salary workers	2.8	2.4	17.3	12.5	16.3	10.9	21.6	18.8
All other classes of workers	11.3	11.2	3.4	3.1	3.1	2.9	3.8	3.4
No previous work experience	10.0	11.3	--	--	--	--	--	--

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	
	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands	7,848	6,897	3,544	2,919	2,623	2,440	1,680	1,539	6,389	5,344	1,458	1,554
Job losers	4,073	3,367	2,409	1,952	1,196	1,037	467	378	3,361	2,672	712	695
On layoff	1,247	1,129	748	680	360	326	139	122	1,110	991	137	137
Other job losers	2,825	2,238	1,661	1,271	836	711	328	255	2,250	1,680	575	558
Job leavers	953	876	380	337	410	402	163	137	834	740	119	136
Reentrants	2,043	1,877	671	534	908	890	464	453	1,588	1,407	455	470
New entrants	779	778	84	96	109	111	586	571	607	525	172	254
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	51.9	48.8	68.0	66.9	45.6	42.5	27.8	24.6	52.6	50.0	48.8	44.7
On layoff	15.9	16.4	21.1	23.3	13.7	13.4	8.3	8.0	17.4	18.6	9.4	8.8
Other job losers	36.0	32.4	46.9	43.6	31.9	29.1	19.5	16.6	35.2	31.4	39.4	35.9
Job leavers	12.1	12.7	10.7	11.5	15.6	16.5	9.7	8.9	13.0	13.9	8.2	8.7
Reentrants	26.0	27.2	18.9	18.3	34.6	36.5	27.6	29.4	24.9	26.3	31.2	30.2
New entrants	9.9	11.3	2.4	3.3	4.2	4.6	34.9	37.1	9.5	9.8	11.8	16.3
UNEMPLOYMENT RATE												
Total unemployment rate	8.3	7.0	6.9	5.5	7.5	6.7	20.6	17.9	7.6	6.2	13.4	13.5
Job loser rate ¹	4.3	3.5	4.6	3.7	3.4	2.8	5.7	4.4	4.0	3.0	6.6	6.0
Job leaver rate ¹	1.0	.9	.7	.6	1.2	1.1	2.0	1.6	1.0	.9	1.1	1.2
Reentrant rate ¹	2.2	1.9	1.3	1.0	2.6	2.4	5.7	5.3	1.9	1.6	4.2	4.1
New entrant rate ¹	.8	.8	.2	.2	.3	.3	7.2	6.7	.7	.6	1.6	2.2

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	January 1978						
	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	6,897	100.0	44.5	30.9	24.6	13.1	11.5
Job losers	3,367	100.0	38.3	35.3	26.4	13.7	12.7
On layoff	1,129	100.0	52.7	36.9	10.4	6.4	4.0
Other job losers	2,238	100.0	31.0	34.6	34.4	17.1	17.3
Job leavers	876	100.0	44.4	32.4	23.3	12.9	10.4
Reentrants	1,877	100.0	53.2	25.2	21.6	12.5	9.1
New entrants	778	100.0	50.1	23.7	26.2	12.8	13.4
Males, 20 years and over	2,919	100.0	37.4	34.9	27.6	13.6	14.0
Job losers	1,952	100.0	36.2	36.9	27.0	13.3	13.7
On layoff	680	100.0	50.3	39.0	10.8	6.8	4.0
Other job losers	1,271	100.0	28.7	35.6	35.7	16.8	18.9
Job leavers	337	100.0	34.3	38.8	27.0	16.6	10.4
Reentrants	534	100.0	43.3	28.5	28.3	12.4	15.9
New entrants	96	100.0	41.2	17.5	41.3	18.6	22.7
Females, 20 years and over	2,440	100.0	46.0	28.9	25.2	13.0	12.2
Job losers	1,037	100.0	36.2	32.8	31.0	16.0	15.0
On layoff	326	100.0	54.0	34.0	11.9	6.7	5.2
Other job losers	711	100.0	28.0	32.2	39.8	20.3	19.5
Job leavers	402	100.0	47.3	29.4	23.4	9.7	13.7
Reentrants	890	100.0	56.5	24.0	19.4	11.2	8.2
New entrants	111	100.0	47.7	29.7	22.5	9.9	12.6
Both sexes, 16 to 19 years	1,539	100.0	55.4	26.5	18.1	12.4	5.7
Job losers	378	100.0	55.3	34.6	10.1	9.0	1.1
On layoff	122	100.0	63.4	32.5	4.1	3.3	.8
Other job losers	255	100.0	51.0	35.3	13.8	12.2	1.6
Job leavers	137	100.0	59.7	25.9	12.3	12.9	1.4
Reentrants	453	100.0	58.5	23.6	17.9	15.0	2.9
New entrants	571	100.0	52.1	23.5	24.4	12.5	11.9

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

Sex, age, and race	January 1978								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	6,897	5,600	29.5	6.3	70.9	30.6	15.2	6.9	1.59
16 to 19 years	1,539	1,390	19.0	4.1	75.0	24.5	12.9	5.9	1.41
20 to 24 years	1,721	1,409	32.8	7.0	74.9	35.7	14.5	4.5	1.69
25 to 34 years	1,599	1,249	35.5	6.5	68.3	31.9	15.9	7.4	1.66
35 to 44 years	806	610	33.4	8.0	68.7	33.3	18.4	6.4	1.68
45 to 54 years	664	498	32.5	8.6	63.1	27.9	20.3	11.4	1.64
55 to 64 years	420	313	28.4	8.0	65.2	32.9	11.2	13.7	1.59
65 years and over	149	132	21.2	.8	64.4	21.2	16.7	8.3	1.33
Males, 16 years and over	3,726	2,882	32.1	6.4	72.2	28.7	16.9	8.8	1.65
16 to 19 years	807	723	19.9	4.7	75.2	25.4	14.7	5.8	1.46
20 to 24 years	972	754	36.7	8.0	73.7	34.4	16.6	5.3	1.75
25 to 34 years	889	654	40.8	6.7	67.7	29.5	17.3	11.5	1.74
35 to 44 years	369	238	40.8	7.6	73.1	29.0	23.1	8.4	1.82
45 to 54 years	356	256	30.1	7.8	73.4	25.4	23.0	15.2	1.75
55 to 64 years	235	174	24.1	4.6	66.7	27.0	9.2	19.0	1.51
65 years and over	97	84	23.8	1.2	69.0	13.1	16.7	6.0	1.30
Females, 16 years and over	3,172	2,718	26.8	6.3	69.6	32.6	13.4	4.9	1.54
16 to 19 years	732	667	18.1	3.4	74.8	23.5	10.8	6.0	1.37
20 to 24 years	749	655	28.1	6.0	76.3	37.3	12.4	3.5	1.64
25 to 34 years	710	595	29.7	6.2	68.7	34.6	14.3	2.9	1.56
35 to 44 years	437	372	28.8	8.3	65.6	36.0	15.3	5.1	1.59
45 to 54 years	307	242	34.7	9.5	52.5	30.6	17.8	7.4	1.53
55 to 64 years	185	139	34.5	12.2	63.3	40.3	13.7	7.2	1.71
65 years and over	52	49	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White	5,344	4,194	27.3	6.3	72.0	32.2	15.1	7.4	1.60
Males	2,916	2,165	29.6	6.5	73.4	29.7	16.9	9.2	1.65
Females	2,427	2,029	24.9	6.2	70.4	35.0	13.2	5.3	1.55
Black and other	1,554	1,405	36.1	6.3	68.0	25.8	15.4	5.6	1.57
Males	809	717	39.6	6.0	68.3	25.9	17.0	7.7	1.65
Females	744	689	32.4	6.5	67.5	25.7	13.9	3.6	1.50

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	January 1978								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	6,897	5,600	29.5	6.3	70.9	30.6	15.2	6.9	1.59
Job losers	3,367	2,227	37.1	7.5	70.9	31.0	17.8	8.7	1.73
Job leavers	876	859	30.6	8.1	76.4	35.5	15.6	3.6	1.70
Reentrants	1,877	1,752	25.1	5.7	67.7	31.4	12.7	7.2	1.50
New entrants	778	761	16.4	2.5	72.8	22.3	13.0	4.7	1.32
Males, 16 years and over	3,726	2,882	32.1	6.4	72.2	28.7	16.9	8.8	1.65
Job losers	2,177	1,410	38.2	7.2	72.6	29.1	18.5	10.3	1.78
Job leavers	409	394	33.0	6.6	75.9	35.8	15.5	4.3	1.71
Reentrants	777	726	25.3	6.1	70.0	26.9	15.4	11.0	1.55
New entrants	363	352	20.2	4.0	71.0	23.0	15.6	3.7	1.38
Females, 16 years and over	3,172	2,718	26.8	6.3	69.6	32.6	13.4	4.9	1.54
Job losers	1,189	818	35.2	7.9	68.0	34.1	16.6	5.9	1.68
Job leavers	467	466	28.5	9.4	76.4	35.2	15.7	3.0	1.68
Reentrants	1,100	1,026	24.8	5.5	66.2	34.7	10.8	4.6	1.47
New entrants	415	409	13.2	1.5	74.1	21.8	10.8	5.6	1.27

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	
	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978
Total, 16 years and over	7,848	6,897	100.0	100.0	6,211	5,371	100.0	100.0
Less than 5 weeks	3,163	3,067	40.3	44.5	2,246	2,126	36.2	39.6
5 to 14 weeks	2,425	2,131	30.9	30.9	1,999	1,756	32.2	32.7
5 to 10 weeks	1,759	1,563	22.4	22.7	1,438	1,267	23.2	23.6
11 to 14 weeks	666	568	8.5	8.2	561	489	9.0	9.1
15 weeks and over	2,260	1,700	28.8	24.6	1,966	1,488	31.6	27.7
15 to 26 weeks	1,081	906	13.8	13.1	891	779	14.3	14.5
27 weeks and over	1,180	794	15.0	11.5	1,074	710	17.3	13.2
27 to 51 weeks	586	403	7.5	5.8	526	372	8.5	6.9
52 weeks and over	594	391	7.6	5.7	548	338	8.8	6.3
Average (mean) duration, in weeks	145	12.4	--	--	15.9	13.5	--	--
Median duration, in weeks	7.2	6.2	--	--	8.3	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			Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978
	January 1978										
Total, 16 years and over	6,897	3,067	2,131	906	794	12.4	6.2	40.3	44.5	28.8	24.6
16 to 21 years	2,344	1,232	666	289	158	9.3	4.8	50.3	52.5	21.0	19.1
16 to 19 years	1,539	853	408	191	87	8.8	4.5	50.2	55.4	20.6	18.1
20 to 24 years	1,721	779	572	218	152	10.9	6.0	43.2	45.3	25.7	21.5
25 to 34 years	1,599	675	519	199	206	12.9	6.7	35.4	42.2	30.7	25.3
35 to 44 years	806	324	259	105	119	13.9	6.9	38.3	40.2	28.4	27.7
45 to 54 years	664	233	225	100	106	15.8	8.7	34.8	35.1	37.3	31.0
55 to 64 years	420	148	115	71	86	18.7	9.3	31.2	35.2	38.5	37.3
65 years and over	149	55	34	22	39	20.8	10.7	31.6	36.8	50.9	40.4
Males, 16 years and over	3,726	1,513	1,253	509	451	13.3	6.9	37.2	40.6	31.6	25.8
16 to 21 years	1,268	632	378	173	85	9.7	5.1	48.9	49.8	23.1	20.4
16 to 19 years	807	420	235	111	41	9.1	4.8	51.3	52.0	21.2	18.9
20 to 24 years	972	418	335	129	89	11.3	6.4	37.7	43.1	30.2	22.4
25 to 34 years	889	328	329	110	121	13.9	7.7	33.1	36.9	31.6	26.1
35 to 44 years	369	129	133	47	59	15.7	7.2	35.6	35.1	31.9	28.8
45 to 54 years	356	114	131	50	61	16.6	8.7	28.9	32.0	43.1	31.2
55 to 64 years	235	70	66	48	52	21.3	10.4	27.6	29.8	39.1	42.2
65 years and over	97	32	23	15	26	22.9	12.7	30.0	33.1	52.8	42.7
Females, 16 years and over	3,172	1,554	878	396	343	11.4	5.3	44.4	49.0	25.2	23.3
16 to 21 years	1,077	600	288	116	73	8.9	4.5	51.9	55.8	18.5	17.5
16 to 19 years	732	433	174	80	46	8.6	4.2	49.1	59.1	20.1	17.2
20 to 24 years	749	360	236	89	63	10.4	5.4	50.5	48.1	19.7	20.3
25 to 34 years	710	347	189	89	85	11.7	5.3	38.5	48.9	29.5	24.4
35 to 44 years	437	194	125	58	59	12.5	6.6	41.6	44.5	24.1	26.9
45 to 54 years	307	119	94	51	44	14.8	8.7	42.9	38.7	29.6	30.8
55 to 64 years	185	78	49	23	34	15.3	7.9	36.2	42.2	37.7	31.1
65 years and over	52	23	11	7	12	17.0	6.2	(1)	(1)	(1)	(1)
White	5,344	2,478	1,649	667	550	11.6	5.8	41.8	46.4	28.1	22.8
Males	2,916	1,246	977	377	316	12.4	6.4	38.9	42.7	30.0	23.8
Females	2,427	1,232	672	290	234	10.6	4.9	45.7	50.7	25.4	21.6
Black and other	1,554	589	482	239	244	15.4	8.0	33.6	37.9	32.1	31.1
Males	809	267	276	133	134	16.7	9.3	28.9	33.0	39.0	33.0
Females	744	322	206	106	110	14.1	6.6	38.9	43.3	24.1	29.0
Males:											
Married, spouse present	1,493	516	580	193	203	14.5	7.6	33.7	34.6	33.8	26.5
Widowed, divorced, or separated	382	141	114	56	71	17.2	9.0	30.1	36.9	35.3	33.3
Single (never married)	1,851	855	558	260	177	11.6	6.0	42.2	46.2	28.6	23.6
Females:											
Married, spouse present	1,421	704	372	181	164	11.3	5.1	44.2	49.5	26.4	24.3
Widowed, divorced, or separated	584	244	193	78	69	12.5	6.7	35.7	41.8	28.8	25.1
Single (never married)	1,167	606	313	138	111	11.0	4.8	49.0	51.9	21.7	21.3

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			Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978
	January 1978										
OCCUPATION											
White-collar workers	1,906	876	508	244	278	13.4	6.0	39.8	45.9	31.7	27.4
Professional and managerial	682	286	171	89	136	15.9	7.6	35.6	41.9	37.1	32.8
Sales workers	288	149	80	28	31	11.3	4.8	44.8	51.7	25.4	20.5
Clerical workers	937	441	257	127	112	12.2	5.7	40.9	47.1	30.0	25.5
Blue-collar workers	2,974	1,234	1,040	389	311	12.1	6.6	37.7	41.5	28.6	23.6
Craft and kindred workers	856	339	320	98	99	12.7	6.6	37.6	39.6	27.3	23.0
Operatives, except transport	1,144	479	381	162	123	12.4	6.7	38.8	41.9	29.5	24.9
Transport equipment operatives	252	108	94	30	21	11.5	6.4	36.4	42.8	28.2	20.1
Nonfarm laborers	722	308	245	100	69	11.3	6.5	36.4	42.7	28.6	23.3
Service workers	1,105	518	327	165	96	11.7	6.0	46.7	46.9	25.3	23.6
INDUSTRY¹											
Agriculture	164	63	77	18	5	9.1	7.4	42.7	38.8	23.2	14.1
Construction	775	318	324	55	77	11.2	6.1	40.3	41.1	24.0	17.1
Manufacturing	1,448	569	475	231	174	13.5	7.4	35.1	39.3	33.5	27.9
Durable goods	791	292	253	142	103	14.8	8.2	31.7	37.0	36.3	31.0
Non-durable goods	657	276	221	89	71	11.9	6.5	39.4	42.1	29.9	24.3
Transportation and public utilities	288	119	104	31	34	11.3	6.9	36.0	41.3	28.5	22.5
Wholesale and retail trade	1,505	752	427	174	152	11.2	5.0	46.6	50.0	25.7	21.7
Finance and service industries	1,549	700	436	221	191	12.2	6.4	38.5	45.2	31.2	26.6
Public administration	220	73	55	59	33	17.3	11.5	36.5	33.3	30.9	41.7
No previous work experience	781	390	187	100	104	12.8	5.0	43.1	49.9	27.8	26.1

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	
	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978
	All industries	86,856	91,053	51,618	53,608	35,238	37,445
16 to 19 years	6,477	7,046	3,444	3,786	3,033	3,261
16 to 17 years	2,461	2,762	1,313	1,499	1,148	1,262
18 to 19 years	4,016	4,285	2,131	2,286	1,884	1,999
20 to 24 years	12,175	12,737	6,668	6,841	5,506	5,895
25 to 54 years	54,800	57,418	33,203	34,484	21,597	22,934
25 to 34 years	22,212	23,565	13,511	14,152	8,701	9,413
35 to 44 years	16,541	17,538	9,971	10,480	6,570	7,058
45 to 54 years	16,047	16,315	9,721	9,852	6,326	6,463
55 to 64 years	10,802	11,016	6,667	6,737	4,136	4,279
55 to 59 years	6,672	6,890	4,091	4,165	2,582	2,725
60 to 64 years	4,130	4,125	2,576	2,572	1,554	1,553
65 years and over	2,601	2,836	1,635	1,760	966	1,076
Nonagricultural industries	84,184	88,185	49,375	51,217	34,809	36,968
16 to 19 years	6,229	6,771	3,231	3,566	2,998	3,205
16 to 17 years	2,339	2,644	1,210	1,410	1,129	1,233
18 to 19 years	3,890	4,128	2,021	2,156	1,869	1,972
20 to 24 years	11,911	12,433	6,437	6,595	5,474	5,838
25 to 54 years	53,438	55,945	32,098	33,275	21,340	22,671
25 to 34 years	21,750	23,073	13,136	13,750	8,614	9,323
35 to 44 years	16,136	17,060	9,650	10,097	6,486	6,964
45 to 54 years	15,552	15,812	9,312	9,428	6,240	6,384
55 to 64 years	10,311	10,513	6,250	6,299	4,061	4,215
55 to 59 years	6,399	6,617	3,866	3,932	2,533	2,685
60 to 64 years	3,912	3,896	2,384	2,367	1,528	1,529
65 years and over	2,294	2,522	1,358	1,484	936	1,039
Agriculture	2,672	2,868	2,243	2,391	429	477
16 to 19 years	248	275	213	220	35	55
16 to 17 years	122	118	103	89	19	29
18 to 19 years	125	157	110	131	16	27
20 to 24 years	263	304	231	246	32	57
25 to 54 years	1,362	1,472	1,106	1,210	256	262
25 to 34 years	462	492	375	402	87	90
35 to 44 years	405	477	322	383	83	94
45 to 54 years	495	503	409	425	86	78
55 to 64 years	491	502	416	438	75	64
55 to 59 years	274	273	224	233	49	40
60 to 64 years	218	229	192	205	26	24
65 years and over	307	314	277	277	30	37

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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	
	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978
TOTAL	86,856	91,053	48,174	49,822	32,205	34,184	3,444	3,786	3,033	3,261
White-collar workers	44,527	46,535	21,164	21,844	21,189	22,346	634	609	1,540	1,737
Professional and technical	13,578	14,169	7,676	8,024	5,762	5,993	77	88	63	65
Health workers	2,344	2,549	809	866	1,526	1,660	2	7	8	15
Teachers, except college	3,233	3,149	967	916	2,237	2,224	8	3	21	6
Other professional and technical	8,001	8,471	5,900	6,242	1,999	2,109	67	78	34	44
Managers and administrators, except farm	9,546	10,037	7,418	7,703	2,059	2,273	44	33	26	28
Salaried workers	7,800	8,243	6,049	6,292	1,689	1,892	37	31	25	27
Self-employed workers in retail trade	910	896	646	649	259	244	4	4	--	--
Self-employed workers, except retail trade ..	837	898	723	762	111	137	3	--	1	--
Sales workers	5,509	5,736	2,938	2,909	2,004	2,191	255	225	311	412
Retail trade	3,026	3,036	959	872	1,591	1,625	183	158	293	381
Other industries	2,483	2,700	1,979	2,037	413	565	73	67	19	31
Clerical workers	15,894	16,593	3,131	3,208	11,364	11,888	259	263	1,139	1,233
Stenographers, typists, and secretaries	4,456	4,642	78	48	4,068	4,248	4	8	306	338
Other clerical workers	11,438	11,951	3,053	3,160	7,296	7,640	255	255	833	895
Blue-collar workers	28,376	29,601	21,496	22,267	4,698	4,976	1,832	2,032	350	326
Craft and kindred workers	11,254	11,760	10,306	10,783	519	578	400	379	29	20
Carpenters	984	1,168	917	1,077	10	13	56	74	--	4
Construction craft, except carpenters	2,103	2,283	2,025	2,196	8	14	66	73	4	1
Mechanics and repairers	3,070	3,228	2,869	3,063	37	45	160	121	3	--
Metal craft	1,256	1,143	1,185	1,087	34	29	37	28	1	--
Blue-collar worker supervisors, not elsewhere classified	1,515	1,595	1,366	1,439	139	146	8	9	3	1
All other	2,326	2,343	1,944	1,921	291	331	73	75	18	16
Operatives, except transport	10,010	10,411	5,543	5,717	3,679	3,813	557	657	231	224
Durable goods manufacturing	4,446	4,700	2,835	2,978	1,385	1,420	163	211	63	92
Nondurable goods manufacturing	3,288	3,354	1,321	1,277	1,752	1,855	96	115	119	107
Other industries	2,276	2,357	1,387	1,462	542	538	298	331	49	25
Transport equipment operatives	3,321	3,381	2,952	2,972	206	249	146	144	16	15
Drivers, motor vehicles	2,794	2,869	2,468	2,500	187	240	125	115	15	15
All other	526	512	484	473	19	10	21	29	2	1
Nonfarm laborers	3,792	4,050	2,695	2,795	294	336	728	853	75	66
Construction	560	678	470	551	5	6	82	118	3	3
Manufacturing	970	1,036	761	792	102	118	107	122	--	4
Other industries	2,262	2,336	1,464	1,452	187	212	539	612	72	60
Service workers	11,685	12,484	3,730	3,819	6,041	6,564	792	941	1,122	1,160
Private household workers	1,141	1,171	22	23	852	908	24	14	243	226
Service workers, except private household	10,544	11,313	3,708	3,796	5,189	5,656	768	927	879	934
Food service workers	3,736	4,019	727	728	1,948	2,081	477	563	583	648
Protective service workers	1,284	1,360	1,154	1,227	106	105	19	23	4	5
All other	5,524	5,934	1,827	1,841	3,135	3,470	272	341	292	281
Farm workers	2,267	2,432	1,783	1,893	278	297	185	203	21	39
Farmers and farm managers	1,319	1,413	1,239	1,303	75	88	6	20	--	2
Farm laborers and supervisors	947	1,019	544	589	203	209	179	184	21	37
Paid workers	729	807	505	567	82	86	126	132	16	22
Unpaid family workers	218	212	39	22	121	123	53	52	5	15

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978	Jan. 1977	Jan. 1978
TOTAL						
Total employed (thousands)	86,856	91,053	51,618	53,608	35,238	37,445
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	51.3	51.1	42.2	41.9	64.5	64.3
Professional and technical	15.6	15.6	15.0	15.1	16.5	16.2
Managers and administrators, except farm	11.0	11.0	14.5	14.4	5.9	6.1
Sales workers	6.3	6.3	6.2	5.8	6.6	6.9
Clerical workers	18.5	18.2	6.6	6.5	35.5	35.0
Blue-collar workers	32.7	32.5	45.2	45.3	14.3	14.2
Craft and kindred workers	13.0	12.9	20.7	20.8	1.6	1.6
Operatives, except transport	11.5	11.4	11.8	11.9	11.1	10.8
Transport equipment operatives	3.8	3.7	6.0	5.8	.6	.7
Nonfarm laborers	4.4	4.4	6.6	6.8	1.0	1.1
Service workers	13.5	13.7	8.8	8.9	20.3	20.6
Private household workers	1.3	1.3	.1	.1	3.1	3.0
Other service workers	12.1	12.4	8.7	8.8	17.2	17.6
Farm workers	2.6	2.7	3.8	3.9	.8	.9
Farmers and farm managers	1.5	1.6	2.4	2.5	.2	.2
Farm laborers and supervisors	1.1	1.1	1.4	1.4	.6	.7
White						
Total employed (thousands)	77,450	81,061	46,552	48,307	30,898	32,754
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	53.1	52.8	43.9	43.4	67.0	66.7
Professional and technical	16.0	16.0	15.5	15.7	16.7	16.4
Managers and administrators, except farm	11.7	11.8	15.3	15.3	6.3	6.6
Sales workers	6.8	6.7	6.6	6.2	7.2	7.5
Clerical workers	18.5	18.3	6.4	6.3	36.8	36.2
Blue-collar workers	32.2	32.1	44.3	44.6	13.8	13.7
Craft and kindred workers	13.4	13.5	21.3	21.5	1.6	1.6
Operatives, except transport	11.1	11.0	11.5	11.5	10.4	10.2
Transport equipment operatives	3.7	3.6	5.7	5.5	.7	.7
Nonfarm laborers	4.0	4.0	5.9	6.0	1.1	1.1
Service workers	12.0	12.4	7.9	8.1	18.3	18.7
Private household workers . . . . .	.9	1.0	.1	.1	2.2	2.3
Other service workers	11.1	11.4	7.8	8.0	16.0	16.4
Farm workers	2.7	2.7	3.9	3.9	.9	.9
Farmers and farm managers	1.7	1.7	2.6	2.7	.2	.3
Farm laborers and supervisors	1.1	1.0	1.3	1.3	.7	.7
Black and other						
Total employed (thousands)	9,406	9,992	5,066	5,301	4,340	4,691
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	36.1	37.2	27.2	27.9	46.5	47.7
Professional and technical	12.4	12.1	10.2	10.2	15.0	14.3
Managers and administrators, except farm	5.0	5.0	6.6	6.7	3.2	3.0
Sales workers	2.4	2.8	2.5	2.6	2.1	3.0
Clerical workers	16.4	17.3	8.0	8.4	26.2	27.3
Blue-collar workers	36.9	35.9	53.1	52.3	17.9	17.4
Craft and kindred workers	8.9	8.2	15.7	14.4	1.1	1.3
Operatives, except transport	15.4	15.0	15.1	15.3	15.8	14.6
Transport equipment operatives	4.9	4.8	8.8	8.7	.2	.5
Nonfarm laborers	7.6	7.9	13.5	13.9	.8	1.1
Service workers	25.4	24.7	17.0	16.2	35.1	34.3
Private household workers	4.4	3.9	.3	.2	9.2	8.0
Other service workers	21.0	20.8	16.7	16.0	25.9	26.3
Farm workers	1.6	2.2	2.6	3.6	.4	.6
Farmers and farm managers4	.5	.7	.8	--	.1
Farm laborers and supervisors	1.2	1.8	1.9	2.8	.4	.5

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

[In thousands]

Age and sex	January 1978								
	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	81,671	1,329	15,496	64,846	6,090	424	1,146	1,498	224
16 to 19 years	6,670	283	503	5,884	74	27	188	21	67
16 to 17 years	2,600	214	165	2,221	33	11	69	4	45
18 to 19 years	4,070	70	338	3,663	41	16	119	17	21
20 to 24 years	12,118	78	1,612	10,429	301	14	204	79	21
25 to 34 years	21,620	150	4,469	17,001	1,373	80	245	215	32
35 to 44 years	15,581	153	3,320	12,109	1,358	121	172	274	31
45 to 54 years	14,338	207	3,281	10,850	1,367	107	143	321	39
55 to 64 years	9,384	279	2,001	7,103	1,069	61	137	337	29
55 to 59 years	5,971	151	1,334	4,485	616	30	79	179	15
60 to 64 years	3,413	128	667	2,618	452	31	57	158	14
65 years and over	1,959	179	310	1,470	549	14	57	251	6
Males, 16 years and over	46,771	132	7,795	38,845	4,407	39	927	1,390	74
16 to 19 years	3,493	48	239	3,205	53	20	149	19	52
16 to 17 years	1,375	36	76	1,263	29	7	51	4	35
18 to 19 years	2,118	12	163	1,943	25	13	98	15	17
20 to 24 years	6,390	11	616	5,763	200	5	160	73	12
25 to 34 years	12,773	11	2,283	10,479	973	3	202	193	7
35 to 44 years	9,121	5	1,712	7,403	975	1	129	253	1
45 to 54 years	8,397	13	1,685	6,699	1,029	2	123	299	2
55 to 64 years	5,500	24	1,083	4,394	793	5	113	325	--
55 to 59 years	3,467	13	714	2,739	462	3	63	170	--
60 to 64 years	2,033	11	369	1,654	331	2	50	155	--
65 years and over	1,098	20	176	902	384	3	50	227	--
Females, 16 years and over	34,900	1,197	7,701	26,002	1,683	385	219	108	150
16 to 19 years	3,177	236	263	2,678	21	7	38	2	15
16 to 17 years	1,225	178	88	959	5	4	18	--	11
18 to 19 years	1,952	58	175	1,720	16	4	20	2	4
20 to 24 years	5,729	67	996	4,667	100	9	44	5	8
25 to 34 years	8,847	139	2,186	6,521	400	77	43	22	25
35 to 44 years	6,461	147	1,608	4,706	383	120	43	21	30
45 to 54 years	5,942	195	1,596	4,152	338	104	20	22	37
55 to 64 years	3,883	255	918	2,709	276	56	23	12	29
55 to 59 years	2,504	138	620	1,746	155	27	16	9	15
60 to 64 years	1,380	118	298	963	121	29	7	3	14
65 years and over	862	159	135	569	165	12	7	24	6

A-24. Employed persons by industry and occupation

[In thousands]

Industry	January 1978											
	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	2,868	64	29	7	70	38	12	32	171	--	13	2,432
Mining	812	100	81	1	103	235	224	50	10	--	7	--
Construction	5,241	184	605	23	373	2,955	238	160	678	--	25	--
Manufacturing	21,015	2,105	1,532	489	2,473	4,083	8,054	800	1,036	--	443	--
Durable goods	12,409	1,357	879	164	1,356	2,696	4,700	389	626	--	242	--
Nondurable goods	8,606	748	653	324	1,117	1,388	3,354	411	411	--	201	--
Transportation and public utilities	5,946	474	609	48	1,311	1,297	177	1,409	435	--	185	--
Wholesale and retail trade	18,585	397	3,616	3,866	3,271	1,392	979	691	1,186	--	3,188	--
Wholesale trade	3,484	126	701	830	750	299	148	338	264	--	28	--
Retail trade	15,101	271	2,915	3,036	2,521	1,092	831	352	922	--	3,159	--
Finance, insurance, and real estate	5,240	242	1,068	1,147	2,386	93	7	4	48	--	245	--
Services	26,289	9,695	1,829	151	4,755	1,360	661	182	372	1,171	6,113	--
Private households	1,349	19	--	--	16	5	1	--	82	1,171	54	--
Other service industries	24,940	9,676	1,829	151	4,739	1,355	660	182	290	--	6,059	--
Public administration	5,057	908	669	3	1,852	305	60	53	113	--	1,093	--

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			
	Jan. 1977				Jan. 1978		Paid absences ²		Unpaid absences^{2}
			Jan. 1977	Jan. 1978			Jan. 1977	Jan. 1978
Total	4,667	5,046	4,365	4,777	1,418	1,606	2,248	2,386
Vacation	984	1,187	945	1,159	539	647	327	374
Illness	1,515	1,868	1,462	1,822	553	735	768	896
Bad weather	1,248	980	1,099	841	--	--	--	--
Industrial dispute	52	164	52	164	--	--	--	--
All other reasons	869	848	807	794	326	224	1,154	1,116
Males	2,821	3,099	2,546	2,848	855	1,044	1,221	1,307
Vacation	584	711	557	684	345	464	161	144
Illness	867	1,052	819	1,009	347	462	405	445
All other reasons ³	1,370	1,336	1,170	1,155	162	119	654	718
Females	1,846	1,947	1,819	1,929	563	563	1,028	1,079
Vacation	399	476	388	475	194	184	165	230
Illness	648	816	644	813	206	273	363	451
All other reasons ³	799	655	787	641	164	105	500	398

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	January 1978					
	Thousands of persons			Percent distribution		
	All industries	Nonagri-cultural industries	Agri-culture	All industries	Nonagri-cultural industries	Agri-culture
Total at work	86,006	83,407	2,599	100.0	100.0	100.0
1-34 hours	23,439	22,479	959	27.3	27.0	36.9
1-4 hours	898	849	49	1.0	1.0	1.9
5-14 hours	4,537	4,257	280	5.3	5.1	10.8
15-29 hours	11,560	11,106	454	13.4	13.3	17.5
30-34 hours	6,444	6,267	176	7.5	7.5	6.8
35 hours and over	62,567	60,928	1,640	72.7	73.0	63.1
35-39 hours	6,156	6,022	134	7.2	7.2	5.2
40 hours	34,700	34,265	436	40.3	41.1	16.8
41 hours and over	21,711	20,641	1,070	25.2	24.7	41.2
41 to 48 hours	8,910	8,679	231	10.4	10.4	8.9
49 to 59 hours	7,538	7,229	309	8.8	8.7	11.9
60 hours and over	5,263	4,733	530	6.1	5.7	20.4
Average hours, total at work	37.9	37.7	40.2	--	--	--
Average hours, workers on full-time schedules	42.0	41.9	46.8	--	--	--

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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	January 1978					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total	23,439	9,279	14,160	22,480	8,799	13,681
Economic reasons	3,086	1,303	1,783	2,915	1,188	1,727
Slack work	1,561	996	565	1,417	889	528
Material shortages or repairs to plant and equipment	54	54	--	51	51	--
New job started during week	200	200	--	196	196	--
Job terminated during week	53	53	--	52	52	--
Could find only part-time work	1,219	--	1,219	1,199	--	1,199
Other reasons	20,353	7,976	12,377	19,565	7,611	11,955
Does not want, or unavailable for, full-time work	10,291	--	10,291	9,967	--	9,967
Vacation	440	440	--	425	425	--
Illness	2,721	2,542	179	2,667	2,500	167
Bad weather	3,646	3,646	--	3,379	3,379	--
Industrial dispute	18	18	--	18	18	--
Legal or religious holiday	92	92	--	92	92	--
Full time for this job	1,359	--	1,359	1,316	--	1,316
All other reasons	1,787	1,238	549	1,704	1,198	506
Average hours:						
Economic reasons	21.0	23.2	19.4	21.1	23.5	19.5
Other reasons	20.9	25.3	18.1	21.0	25.5	18.1
Worked 30 to 34 hours:						
Economic reasons	824	494	330	790	465	325
Other reasons	5,620	3,720	1,900	5,477	3,627	1,850

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

[Numbers in thousands]

Industry	January 1978								
	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	83,407	2,915	11,955	68,537	47,896	8,679	11,962	37.7	41.9
Wage and salary workers	77,590	2,619	10,908	64,063	45,863	8,178	10,022	37.5	41.5
Construction	3,741	171	185	3,385	2,711	296	378	36.1	37.9
Manufacturing	19,812	473	710	18,629	13,229	2,934	2,466	40.1	41.3
Durable goods	11,693	151	265	11,277	7,902	1,875	1,500	40.7	41.4
Nondurable goods	8,119	322	445	7,352	5,326	1,059	967	39.2	41.0
Transportation and public utilities	5,363	147	404	4,812	3,338	612	862	40.3	42.7
Wholesale and retail trade	15,989	789	4,110	11,090	7,133	1,734	2,223	35.6	42.8
Finance, insurance, and real estate	4,685	73	464	4,148	3,065	451	632	38.9	41.4
Service industries	22,522	912	4,792	16,818	12,451	1,609	2,758	35.3	41.3
Private households	1,241	166	680	395	291	36	68	22.1	41.7
All other industries	21,281	746	4,112	16,423	12,160	1,573	2,690	36.1	41.3
Public administration	4,844	44	231	4,569	3,545	464	560	40.1	41.5
Self-employed workers	5,393	284	869	4,240	1,908	472	1,860	40.9	47.4
Unpaid family workers	424	11	178	235	124	30	81	34.2	43.9

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	January 1978							
	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	83,407	2,915	11,955	68,537	47,896	20,641	37.7	41.9
16 to 21 years	10,953	651	4,334	5,968	4,590	1,378	29.4	39.7
16 to 19 years	6,476	395	3,467	2,614	2,093	521	25.6	39.2
16 to 17 years	2,537	102	2,134	301	250	51	17.4	35.8
18 to 19 years	3,939	294	1,333	2,312	1,841	471	30.9	39.6
20 years and over	76,932	2,519	8,488	65,925	45,805	20,120	38.8	42.0
20 to 24 years	11,844	608	1,636	9,600	7,118	2,482	36.7	40.6
25 years and over	65,088	1,911	6,852	56,325	38,687	17,638	39.2	42.2
25 to 44 years	38,182	1,124	3,490	33,568	22,745	10,823	39.6	42.3
45 to 64 years	24,689	691	2,267	21,731	15,214	6,517	39.5	42.2
65 years and over	2,217	95	1,095	1,027	728	299	28.1	41.6
Males, 16 years and over	48,369	1,265	3,803	43,301	27,027	16,274	40.8	43.3
16 to 21 years	5,716	300	2,141	3,275	2,276	999	30.7	40.7
16 to 19 years	3,406	185	1,770	1,451	1,057	394	26.8	40.1
16 to 17 years	1,352	57	1,107	188	149	39	18.6	36.7
18 to 19 years	2,054	129	663	1,262	906	356	32.3	40.6
20 years and over	44,963	1,080	2,033	41,850	25,969	15,881	41.8	43.4
20 to 24 years	6,280	312	654	5,314	3,563	1,751	38.3	41.7
25 years and over	38,683	768	1,379	36,536	22,406	14,130	42.4	43.6
25 to 44 years	22,706	476	451	21,779	13,063	8,716	42.9	43.8
45 to 64 years	14,682	242	343	14,097	8,898	5,199	42.7	43.6
65 years and over	1,294	49	585	660	445	215	29.7	42.1
Females, 16 years and over	35,039	1,650	8,152	25,237	20,870	4,367	33.6	39.4
16 to 21 years	5,237	352	2,193	2,692	2,311	381	27.8	38.4
16 to 19 years	3,070	209	1,697	1,164	1,036	128	24.2	38.0
16 to 17 years	1,185	45	1,027	113	101	12	15.9	34.3
18 to 19 years	1,885	165	670	1,050	935	115	29.5	38.4
20 years and over	31,969	1,440	6,455	24,074	19,834	4,240	34.5	39.4
20 to 24 years	5,564	296	982	4,286	3,555	731	34.8	39.2
25 years and over	26,405	1,144	5,473	19,788	16,279	3,509	34.4	39.4
25 to 44 years	15,475	648	3,039	11,788	9,681	2,107	34.6	39.4
45 to 64 years	10,007	450	1,924	7,633	6,316	1,317	34.9	39.6
65 years and over	923	46	510	367	283	84	25.9	40.6
RACE								
White	74,305	2,417	10,961	60,927	41,535	19,392	37.9	42.1
Males	43,641	1,051	3,453	39,137	23,735	15,402	41.1	43.6
Females	30,664	1,366	7,508	21,790	17,799	3,991	33.5	39.5
Black and other	9,103	498	993	7,612	6,363	1,249	36.3	39.8
Males	4,728	214	350	4,164	3,290	874	38.1	40.6
Females	4,375	283	644	3,448	3,072	376	34.4	38.7
MARITAL STATUS								
Males:								
Married, spouse present	34,449	607	1,097	32,745	19,753	12,992	42.6	43.8
Widowed, divorced, or separated	3,487	140	189	3,158	2,023	1,135	41.1	43.3
Single (never married)	10,433	518	2,517	7,398	5,251	2,147	34.6	41.4
Females:								
Married, spouse present	20,093	899	4,766	14,428	12,032	2,396	33.7	39.2
Widowed, divorced, or separated	6,602	335	945	5,322	4,264	1,058	35.7	39.7
Single (never married)	8,344	415	2,442	5,487	4,576	911	31.7	39.4

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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	January 1978								
	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	44,508	952	6,274	37,282	25,344	4,335	7,603	38.7	42.6
Professional and technical	13,520	261	1,484	11,775	7,984	1,287	2,504	39.3	42.5
Managers and administrators, except farm	9,561	97	391	9,073	4,468	1,309	3,296	45.2	46.6
Sales workers	5,453	174	1,437	3,842	2,397	504	941	35.9	43.2
Clerical workers	15,974	420	2,962	12,592	10,494	1,235	863	35.3	39.6
Blue-collar workers	27,517	1,161	1,959	24,397	17,286	3,647	3,464	38.6	41.0
Craft and kindred workers	10,881	345	347	10,189	6,940	1,572	1,677	40.1	41.5
Operatives, except transport	9,840	434	604	8,802	6,644	1,336	822	38.1	40.1
Transport equipment operatives	3,121	130	285	2,706	1,547	421	738	40.7	44.1
Nonfarm laborers	3,676	253	723	2,700	2,155	318	227	33.5	38.9
Service workers	11,753	831	3,796	7,126	5,453	717	956	31.9	41.3
Private household	1,097	140	604	353	263	27	63	22.2	41.2
Other service workers	10,656	691	3,193	6,772	5,189	690	893	33.0	41.3
Males									
White-collar workers	21,553	277	1,399	19,877	11,061	2,772	6,044	43.1	45.1
Professional and technical	7,807	120	454	7,233	4,427	839	1,967	42.3	44.2
Managers and administrators, except farm	7,372	55	166	7,151	3,180	1,069	2,902	46.7	47.6
Sales workers	3,040	34	392	2,614	1,430	398	786	41.1	44.9
Clerical workers	3,334	67	387	2,880	2,023	467	390	38.6	41.8
Blue-collar workers	22,514	819	1,414	20,281	13,783	3,210	3,288	39.4	41.6
Craft and kindred workers	10,320	315	264	9,741	6,585	1,521	1,635	40.4	41.5
Operatives, except transport	6,018	164	371	5,483	3,789	988	706	39.6	41.5
Transport equipment operatives	2,884	116	158	2,610	1,465	411	734	41.8	44.2
Nonfarm laborers	3,293	225	621	2,447	1,944	291	212	33.7	38.9
Service workers	4,536	187	1,006	3,343	2,312	383	648	36.6	43.2
Private household	34	3	20	11	9	--	2	24.2	46.2
Other service workers	4,503	184	986	3,333	2,304	383	646	36.7	43.2
Females									
White-collar workers	22,995	675	4,875	17,445	14,323	1,563	1,559	34.6	39.6
Professional and technical	5,714	141	1,030	4,543	3,559	448	536	35.3	39.7
Managers and administrators, except farm	2,188	42	224	1,922	1,286	241	395	40.1	42.9
Sales workers	2,413	140	1,045	1,228	968	106	154	29.3	39.7
Clerical workers	12,639	352	2,575	9,712	8,470	768	474	34.4	38.9
Blue-collar workers	5,003	342	544	4,117	3,505	436	176	35.1	38.1
Craft and kindred workers	561	30	82	449	357	51	41	35.8	39.6
Operatives, except transport	3,822	270	233	3,319	2,855	348	116	35.8	37.9
Transport equipment operatives	237	14	127	96	82	10	4	27.2	38.9
Nonfarm laborers	383	28	102	253	211	27	15	31.6	38.2
Service workers	7,217	644	2,790	3,783	3,141	334	308	29.0	39.6
Private household	1,064	136	584	344	255	27	62	22.1	41.1
Other service workers	6,153	507	2,207	3,439	2,885	307	247	30.2	39.5

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

[Numbers in thousands]

Employment status	January 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	8,220	4,184	4,036	6,904	3,523	3,381	1,315	661	654
Civilian labor force	1,319	680	639	1,217	615	602	102	64	38
Employed	1,137	570	568	1,076	531	546	61	39	22
Agriculture	84	68	16	79	63	17	5	5	--
Nonagricultural industries	1,053	502	551	997	468	529	56	34	22
Unemployed	182	110	72	141	85	56	41	25	16
Unemployment rate	13.8	16.2	11.3	11.6	13.8	9.3	40.2	(1)	(1)
Not in labor force	6,901	3,505	3,396	5,687	2,908	2,780	1,213	597	617
Keeping house	51	11	40	47	11	36	4	--	4
Going to school	6,569	3,357	3,212	5,401	2,783	2,618	1,168	573	594
Unable to work	9	6	2	9	6	3	--	--	--
All other reasons	272	130	141	230	107	123	41	23	18

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	January 1978					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,137	570	568	100.0	100.0	100.0
Nonagricultural industries	1,053	502	551	92.6	88.2	97.2
Wage and salary workers	951	436	515	83.6	76.8	91.0
Private household workers	398	78	320	35.0	13.7	56.3
Government workers	39	23	17	3.4	4.0	3.0
Other wage and salary workers	514	336	178	45.2	59.1	31.3
Self-employed workers	91	62	29	8.0	10.9	5.1
Unpaid family workers	11	3	8	1.0	.5	1.4
Agriculture	84	68	16	7.4	11.8	2.8
Wage and salary workers	44	35	9	3.9	6.2	1.6
Self-employed workers	5	3	2	.4	.5	.4
Unpaid family workers	35	29	5	3.1	5.1	.9
OCCUPATION						
Total	1,137	570	568	100.0	100.0	100.0
White-collar workers	304	203	101	26.7	35.6	17.9
Professional and technical	13	6	8	1.1	1.1	1.4
Managers and administrators, except farm	4	--	4	.4	--	.7
Sales workers	220	169	51	19.3	29.6	9.0
Clerical workers	67	28	39	5.9	4.9	6.9
Blue-collar workers	168	140	28	14.8	24.6	5.1
Craft and kindred workers	8	7	1	.7	1.2	.2
Operatives, except transport	32	24	7	2.8	4.2	1.2
Transport equipment operatives	--	--	--	--	--	--
Nonfarm laborers	129	109	21	11.3	19.1	3.7
Service workers	588	164	424	51.6	28.8	74.5
Private household workers	350	38	312	30.7	6.7	54.8
Other service workers	238	126	112	20.9	22.1	19.7
Farm workers	77	64	14	6.8	11.1	2.5
Farmers and farm managers	6	3	2	.5	.5	.4
Farm laborers and supervisors	72	60	12	6.3	10.5	2.1

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Characteristics	1977												1978
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
WHITE													
Total, 16 years and over:													
Civilian labor force	84,691	85,167	85,481	85,625	85,899	86,258	85,962	86,298	86,407	86,812	87,292	87,193	87,425
Employed	78,995	79,405	79,809	80,149	80,512	80,816	80,758	81,032	81,203	81,614	82,181	82,391	82,650
Unemployed	5,696	5,762	5,672	5,476	5,387	5,442	5,204	5,266	5,204	5,198	5,111	4,802	4,775
Unemployment rate	6.7	6.8	6.6	6.4	6.3	6.3	6.1	6.1	6.0	6.0	5.9	5.5	5.5
Males, 20 years and over:													
Civilian labor force	46,473	46,635	46,649	46,663	46,775	47,002	46,906	47,003	47,008	47,278	47,417	47,507	47,440
Employed	44,061	44,179	44,328	44,435	44,554	44,869	44,796	44,925	45,033	45,220	45,452	45,592	45,546
Unemployed	2,412	2,456	2,321	2,228	2,221	2,133	2,110	2,078	1,975	2,058	1,965	1,915	1,894
Unemployment rate	5.2	5.3	5.0	4.8	4.7	4.5	4.5	4.4	4.2	4.4	4.1	4.0	4.0
Females, 20 years and over:													
Civilian labor force	30,170	30,327	30,568	30,648	30,841	30,843	30,827	30,844	31,171	31,162	31,445	31,381	31,612
Employed	28,233	28,373	28,586	28,746	28,993	28,852	28,912	28,895	29,244	29,268	29,536	29,545	29,875
Unemployed	1,937	1,954	1,982	1,902	1,848	1,991	1,915	1,949	1,927	1,894	1,909	1,836	1,737
Unemployment rate	6.4	6.4	6.5	6.2	6.0	6.5	6.2	6.3	6.2	6.1	6.1	5.9	5.5
Both sexes, 16 to 19 years:													
Civilian labor force	8,048	8,205	8,264	8,314	8,283	8,413	8,229	8,451	8,228	8,372	8,430	8,305	8,373
Employed	6,701	6,853	6,895	6,968	6,965	7,095	7,050	7,212	6,926	7,126	7,193	7,254	7,229
Unemployed	1,347	1,352	1,369	1,346	1,318	1,318	1,179	1,239	1,302	1,246	1,237	1,051	1,144
Unemployment rate	16.7	16.5	16.6	16.2	15.9	15.7	14.3	14.7	15.8	14.9	14.7	12.7	13.7
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	11,038	11,155	11,133	11,086	11,175	11,325	11,241	11,375	11,344	11,398	11,551	11,761	11,725
Employed	9,645	9,695	9,702	9,725	9,732	9,834	9,746	9,752	9,854	9,842	9,966	10,271	10,238
Unemployed	1,393	1,460	1,431	1,361	1,443	1,491	1,495	1,623	1,490	1,556	1,585	1,490	1,487
Unemployment rate	12.6	13.1	12.9	12.3	12.9	13.2	13.3	14.3	13.1	13.7	13.7	12.7	12.7
Males, 20 years and over:													
Civilian labor force	5,468	5,511	5,513	5,443	5,504	5,552	5,482	5,500	5,405	5,522	5,541	5,649	5,678
Employed	4,914	4,967	4,986	4,977	4,954	5,020	4,921	4,856	4,837	4,898	4,985	5,137	5,124
Unemployed	554	544	527	466	550	532	561	644	568	624	556	512	554
Unemployment rate	10.1	9.9	9.6	8.6	10.0	9.6	10.2	11.7	10.5	11.3	10.0	9.1	9.8
Females, 20 years and over:													
Civilian labor force	4,678	4,746	4,732	4,767	4,794	4,782	4,763	4,839	4,966	4,883	4,988	5,065	5,051
Employed	4,162	4,166	4,173	4,186	4,238	4,219	4,235	4,268	4,408	4,328	4,358	4,485	4,503
Unemployed	516	580	559	581	556	563	528	571	558	555	630	580	548
Unemployment rate	11.0	12.2	11.8	12.2	11.6	11.8	11.1	11.8	11.2	11.4	12.6	11.5	10.8
Both sexes, 16 to 19 years:													
Civilian labor force	892	898	888	876	877	991	996	1,036	973	993	1,022	1,047	996
Employed	569	562	543	562	540	595	590	628	609	616	623	649	611
Unemployed	323	336	345	314	337	396	406	408	364	377	399	398	385
Unemployment rate	36.2	37.4	38.9	35.8	38.4	40.0	40.8	39.4	37.4	38.0	39.0	38.0	38.7

HOUSEHOLD DATA

SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Selected categories	1977												1978
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
CHARACTERISTICS													
Total (all civilian workers)	7.4	7.6	7.4	7.1	7.1	7.1	6.9	7.0	6.8	6.8	6.7	6.4	6.3
Males, 20 years and over	5.8	5.9	5.6	5.2	5.3	5.1	5.1	5.1	4.7	5.0	4.7	4.6	4.7
Females, 20 years and over	6.9	7.2	7.2	7.0	6.9	7.2	6.9	7.1	6.9	6.8	6.9	6.6	6.1
Both sexes, 16-19 years	18.4	18.6	18.7	18.2	18.1	18.0	17.3	17.3	18.3	17.3	17.2	15.6	16.0
White	6.7	6.8	6.6	6.4	6.3	6.3	6.1	6.1	6.0	6.0	5.9	5.5	5.5
Black and other	12.6	13.1	12.9	12.3	12.9	13.2	13.3	14.3	13.1	13.7	13.7	12.7	12.7
Married men, spouse present	3.8	4.1	3.8	3.7	3.6	3.4	3.4	3.5	3.3	3.6	3.3	3.2	2.9
Married women, spouse present	6.5	6.8	6.8	6.6	6.5	6.8	6.5	6.5	6.4	6.3	6.5	6.2	5.6
Women who head families	9.1	9.3	9.6	9.4	9.1	9.4	9.3	10.0	10.0	9.3	9.3	8.1	7.9
Full-time workers	6.9	6.9	6.8	6.6	6.6	6.5	6.5	6.6	6.4	6.4	6.2	5.9	5.8
Part-time workers	10.1	10.6	10.9	9.9	9.9	10.5	9.3	9.0	9.7	9.6	9.6	8.9	8.9
Unemployed 15 weeks and over ¹	2.3	2.3	2.1	1.9	1.9	1.8	1.9	1.8	1.9	1.9	1.8	1.8	1.7
Labor force time lost ²	8.1	8.0	7.8	7.4	7.6	7.6	7.5	7.6	7.4	7.4	7.3	7.0	6.8
OCCUPATION													
White-collar workers	4.5	4.6	4.7	4.4	4.3	4.2	4.1	4.2	4.2	4.1	4.2	4.0	3.6
Professional and technical	3.3	3.2	3.2	3.2	2.9	3.0	2.9	3.0	3.0	3.0	2.9	2.8	2.7
Managers and administrators, except farm	3.0	2.9	3.4	2.9	2.7	2.7	2.6	2.5	2.5	2.6	3.0	2.5	2.5
Sales workers	5.6	5.6	5.5	5.3	5.5	5.3	5.4	5.2	5.1	5.0	4.9	4.7	3.9
Clerical workers	6.0	6.4	6.3	6.0	5.8	5.8	5.4	5.8	6.0	5.7	5.7	5.5	5.0
Blue-collar workers	8.5	8.8	8.5	7.9	8.0	7.8	8.1	8.3	7.8	8.0	7.6	7.2	7.1
Craft and kindred workers	6.3	6.5	6.1	5.0	5.6	5.5	5.5	5.5	5.1	5.4	5.2	5.2	5.4
Operatives, except transport	9.3	9.8	9.5	9.5	9.1	9.4	10.1	9.8	9.9	9.8	9.3	8.5	7.9
Transport equipment operatives	7.2	7.6	7.1	6.5	7.0	5.9	7.3	7.5	5.7	6.1	5.3	5.6	5.4
Nonfarm laborers	13.0	12.9	13.2	12.6	12.3	11.6	10.8	12.4	11.3	11.8	11.9	10.6	11.0
Service workers	8.6	8.5	8.1	8.3	8.8	8.3	7.8	8.3	7.9	8.1	7.8	7.8	7.6
Farm workers	4.6	6.4	5.0	4.7	4.4	4.8	4.2	4.0	4.7	4.4	4.1	3.9	3.9
INDUSTRY													
Nonagricultural private wage and salary workers ³	7.5	7.6	7.4	7.1	7.2	6.9	6.9	7.0	6.8	6.9	6.7	6.3	6.2
Construction	15.1	15.2	14.2	12.2	12.8	12.3	11.8	11.4	10.4	12.1	11.2	10.8	11.7
Manufacturing	7.1	7.2	6.7	6.7	6.5	6.4	6.7	6.9	7.0	6.8	6.5	5.7	5.6
Durable goods	6.7	6.9	6.3	6.1	5.9	5.7	6.1	6.3	6.4	6.1	6.0	5.6	5.2
Nondurable goods	7.6	7.5	7.4	7.7	7.2	7.4	7.5	7.7	7.9	7.8	7.2	5.9	6.1
Transportation	4.8	4.7	5.1	4.5	4.4	4.3	4.7	4.8	4.8	4.8	4.7	4.9	4.3
Wholesale and retail trade	8.4	8.7	8.3	7.9	8.3	8.0	7.9	8.1	7.6	7.9	7.4	7.3	7.1
Finance and service industries	6.2	6.2	6.4	6.2	6.5	6.0	5.7	5.7	5.7	5.7	6.0	5.5	5.3
Government workers	4.3	4.4	4.1	4.1	4.0	4.2	3.9	4.3	4.1	4.1	4.3	4.3	4.2
Agricultural wage and salary workers	12.7	13.3	12.6	12.1	11.5	10.9	10.2	9.8	10.4	10.3	9.3	9.6	9.0

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	1977												1978
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Duration													
Less than 5 weeks	2,784	2,863	2,944	3,041	2,789	3,076	2,820	2,865	2,784	2,804	2,851	2,628	2,700
5 to 14 weeks	2,118	2,142	2,140	1,899	2,128	2,050	2,050	2,237	2,152	2,117	2,037	1,937	1,861
15 weeks and over	2,244	2,168	2,008	1,828	1,869	1,788	1,824	1,800	1,834	1,848	1,829	1,797	1,688
15 to 26 weeks	1,020	959	859	720	812	826	881	933	908	920	936	941	864
27 weeks and over	1,224	1,209	1,149	1,108	1,057	962	943	867	926	928	893	856	824
Average (mean) duration, in weeks	15.3	14.7	14.4	14.4	14.9	14.3	14.1	13.7	14.0	13.8	13.7	13.8	13.1
Median duration, in weeks	7.7	7.5	7.2	7.0	7.3	6.1	7.2	7.2	6.9	7.1	7.0	7.1	6.6
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	39.0	39.9	41.5	44.9	46.7	44.5	42.1	41.5	41.1	41.4	42.4	41.3	43.2
5 to 14 weeks	29.6	29.9	30.2	28.1	35.6	29.6	30.6	32.4	31.8	31.3	30.3	30.4	29.8
15 weeks and over	31.4	30.2	28.3	27.0	31.3	25.9	27.2	26.1	27.1	27.3	27.2	28.2	27.0
15 to 26 weeks	14.3	13.4	12.1	10.6	13.6	11.9	13.2	13.5	13.4	13.6	13.9	14.8	13.8
27 weeks and over	17.1	16.9	16.2	16.4	17.7	13.9	14.1	12.6	13.7	13.7	13.3	13.5	13.2

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

Sex and age	1977												1978
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Total, 16 years and over	7.4	7.6	7.4	7.1	7.1	7.1	6.9	7.0	6.8	6.8	6.7	6.4	6.3
16 to 19 years	18.4	18.6	18.7	18.2	18.1	18.0	17.3	17.3	18.3	17.3	17.2	15.6	16.0
16 to 17 years	20.7	20.0	21.9	19.7	20.6	21.2	19.8	20.1	19.8	18.8	19.0	17.8	18.2
18 to 19 years	16.9	17.6	16.5	16.8	16.4	16.3	15.7	15.5	16.7	16.2	15.9	13.7	14.5
20 to 24 years	11.4	11.9	11.4	11.0	10.9	10.7	10.7	11.2	10.7	10.4	10.4	10.2	10.5
25 years and over	5.2	5.2	5.1	5.0	4.9	5.0	4.9	4.9	4.7	4.9	4.7	4.4	4.2
25 to 54 years	5.4	5.4	5.4	5.2	5.2	5.2	5.1	5.2	4.8	5.1	4.8	4.6	4.3
55 years and over	4.2	4.6	4.2	4.1	4.1	3.8	3.9	3.9	4.1	4.2	4.1	4.0	3.5
Males, 16 years and over	6.8	7.0	6.7	6.3	6.4	6.2	6.1	6.1	5.9	6.0	5.8	5.5	5.6
16 to 19 years	17.3	18.6	18.6	17.5	17.4	17.5	16.9	17.4	17.7	16.7	16.4	15.3	14.9
16 to 17 years	19.2	19.6	22.3	18.5	19.2	22.4	20.0	20.8	19.2	18.6	18.2	16.7	17.2
18 to 19 years	16.2	18.0	16.1	16.1	16.1	15.3	14.8	14.9	15.8	15.1	15.0	13.9	13.4
20 to 24 years	11.4	12.0	11.2	10.8	10.8	10.3	10.6	11.4	10.4	9.9	9.8	9.8	10.5
25 years and over	4.7	4.6	4.4	4.3	4.3	4.1	4.2	4.1	3.9	4.3	3.8	3.6	3.5
25 to 54 years	4.8	4.7	4.5	4.4	4.4	4.3	4.3	4.3	3.8	4.3	3.9	3.6	3.6
55 years and over	4.1	4.5	4.2	3.8	3.9	3.3	3.7	3.5	3.9	4.1	3.7	3.7	3.2
Females, 16 years and over	8.3	8.4	8.4	8.3	8.2	8.4	8.1	8.2	8.2	8.0	8.1	7.6	7.3
16 to 19 years	19.6	18.6	18.8	18.9	19.0	18.5	17.8	17.2	18.9	18.0	18.1	16.1	17.4
16 to 17 years	22.4	20.6	21.5	21.2	22.2	19.8	19.6	19.3	20.6	19.1	20.1	19.2	19.5
18 to 19 years	17.6	17.1	17.0	17.7	16.8	17.5	16.6	16.2	17.7	17.4	16.8	13.5	15.8
20 to 24 years	11.5	11.7	11.6	11.3	11.1	11.2	10.9	11.0	11.0	11.0	11.1	10.8	10.5
25 years and over	6.0	6.1	6.2	6.1	5.9	6.2	6.2	6.2	6.0	5.8	6.0	5.7	5.2
25 to 54 years	6.3	6.4	6.7	6.5	6.2	6.6	6.4	6.5	6.4	6.2	6.3	6.0	5.5
55 years and over	4.4	4.8	4.4	4.5	4.4	4.5	4.4	4.5	4.5	4.5	4.8	4.4	3.8

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

[Numbers in thousands]

Reason for unemployment	1977												1978
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
NUMBER OF UNEMPLOYED													
Job losers	3,264	3,425	3,212	3,043	3,080	2,972	3,042	3,197	3,055	3,035	2,969	2,748	2,698
On layoff	848	999	896	793	803	822	879	963	847	840	780	687	768
Other job losers	2,416	2,426	2,316	2,250	2,277	2,150	2,163	2,234	2,208	2,195	2,189	2,061	1,930
Job leavers	932	881	916	868	913	938	842	891	869	876	881	877	856
Reentrants	1,981	1,972	2,000	1,993	1,961	1,917	1,860	1,872	1,879	1,906	1,891	1,886	1,821
New entrants	915	942	999	985	890	1,087	973	947	935	857	901	820	914
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	46.0	47.4	45.1	44.2	45.0	43.0	45.3	46.3	45.3	45.5	44.7	43.4	42.9
On layoff	12.0	13.8	12.6	11.5	11.7	11.9	13.1	13.9	12.6	12.6	11.7	10.9	12.2
Other job losers	34.1	33.6	32.5	32.7	33.3	31.1	32.2	32.3	32.8	32.9	33.0	32.6	30.7
Job leavers	13.1	12.2	12.9	12.6	13.3	13.6	12.5	12.9	12.9	13.1	13.3	13.9	13.6
Reentrants	27.9	27.3	28.1	28.9	28.7	27.7	27.7	27.1	27.9	28.6	28.5	29.8	29.0
New entrants	12.9	13.0	14.0	14.3	13.0	15.7	14.5	13.7	13.9	12.8	13.6	13.0	14.5
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.4	3.6	3.3	3.1	3.2	3.0	3.1	3.3	3.1	3.1	3.0	2.8	2.7
Job leavers	1.0	.9	.9	.9	.9	1.0	.9	.9	.9	.9	.9	.9	.9
Reentrants	2.1	2.0	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8
New entrants	1.0	1.0	1.0	1.0	.9	1.1	1.0	1.0	1.0	.9	.9	.8	.9

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1977												1978
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Total, 16 years and over	88,653	89,047	89,478	89,877	90,267	90,648	90,588	90,793	91,088	91,383	92,214	92,609	92,881
16 to 19 years	7,274	7,379	7,439	7,504	7,513	7,719	7,700	7,843	7,510	7,728	7,832	7,912	7,860
16 to 17 years	2,913	3,015	2,969	3,048	3,026	3,073	3,074	3,146	3,119	3,170	3,215	3,237	3,213
18 to 19 years	4,387	4,400	4,456	4,492	4,479	4,605	4,551	4,660	4,445	4,563	4,610	4,664	4,657
20 to 24 years	12,593	12,635	12,702	12,707	12,716	12,904	12,879	12,866	13,023	13,018	13,055	13,139	13,183
25 years and over	68,799	69,052	69,340	69,660	70,021	70,004	70,039	70,006	70,559	70,691	71,309	71,551	71,914
25 to 54 years	55,278	55,523	55,770	55,963	56,168	56,329	56,403	56,465	56,770	56,831	57,255	57,530	57,910
55 years and over	13,548	13,559	13,565	13,696	13,768	13,694	13,606	13,620	13,759	13,905	14,006	14,039	14,003
Males, 16 years and over	52,962	53,094	53,301	53,482	53,644	54,006	53,901	53,942	53,964	54,341	54,745	55,012	54,975
16 to 19 years	3,955	3,958	4,004	4,063	4,139	4,156	4,173	4,155	4,076	4,223	4,286	4,324	4,302
16 to 17 years	1,602	1,625	1,622	1,689	1,721	1,654	1,687	1,728	1,721	1,767	1,809	1,825	1,788
18 to 19 years	2,359	2,352	2,381	2,412	2,401	2,462	2,438	2,421	2,392	2,455	2,473	2,492	2,514
20 to 24 years	6,953	6,935	6,970	6,955	6,910	7,048	7,041	7,037	7,057	7,139	7,142	7,172	7,135
25 years and over	42,042	42,211	42,335	42,472	42,598	42,785	42,679	42,687	42,843	43,004	43,320	43,530	43,557
25 to 54 years	33,637	33,782	33,891	33,997	34,022	34,177	34,135	34,184	34,336	34,394	34,617	34,828	34,931
55 years and over	8,445	8,411	8,452	8,465	8,539	8,588	8,535	8,515	8,500	8,633	8,698	8,734	8,649
Females, 16 years and over	35,691	35,953	36,177	36,395	36,623	36,642	36,687	36,851	37,124	37,042	37,469	37,597	37,906
16 to 19 years	3,319	3,421	3,435	3,441	3,374	3,563	3,527	3,688	3,434	3,505	3,546	3,588	3,558
16 to 17 years	1,311	1,390	1,347	1,359	1,305	1,419	1,387	1,418	1,398	1,403	1,406	1,412	1,425
18 to 19 years	2,028	2,048	2,075	2,080	2,078	2,143	2,113	2,245	2,053	2,108	2,137	2,172	2,143
20 to 24 years	5,640	5,700	5,732	5,752	5,806	5,856	5,838	5,829	5,966	5,879	5,913	5,967	6,048
25 years and over	26,757	26,841	27,005	27,188	27,423	27,219	27,360	27,319	27,716	27,687	27,989	28,021	28,857
25 to 54 years	21,641	21,741	21,879	21,966	22,146	22,152	22,268	22,281	22,434	22,437	22,638	22,702	22,979
55 years and over	5,103	5,148	5,113	5,231	5,229	5,106	5,071	5,105	5,259	5,272	5,308	5,305	5,354

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

[In thousands]

Sex and age	1977												1978
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Total, 16 years and over	7,066	7,273	7,145	6,869	6,894	6,904	6,719	6,821	6,668	6,688	6,663	6,310	6,226
16 to 19 years	1,640	1,688	1,711	1,667	1,664	1,693	1,613	1,640	1,677	1,620	1,623	1,467	1,499
16 to 17 years	760	755	833	749	783	828	760	792	771	736	756	701	717
18 to 19 years	890	938	881	909	881	898	847	858	892	879	871	740	791
20 to 24 years	1,625	1,701	1,632	1,574	1,560	1,547	1,545	1,620	1,553	1,515	1,519	1,499	1,547
25 years and over	3,763	3,811	3,748	3,646	3,628	3,655	3,643	3,621	3,502	3,641	3,493	3,319	3,155
25 to 54 years	3,135	3,159	3,167	3,075	3,053	3,099	3,032	3,074	2,887	3,037	2,909	2,772	3,632
55 years and over	599	657	601	580	586	538	557	555	588	615	605	585	503
Males, 16 years and over	3,839	3,978	3,812	3,592	3,638	3,543	3,498	3,533	3,354	3,469	3,352	3,213	3,232
16 to 19 years	829	905	914	864	870	882	851	875	876	848	840	779	752
16 to 17 years	381	395	465	384	410	477	422	453	408	404	403	365	371
18 to 19 years	456	516	457	462	460	444	425	424	450	435	438	401	389
20 to 24 years	895	945	881	843	836	810	834	902	819	788	777	775	840
25 years and over	2,063	2,058	1,967	1,887	1,916	1,846	1,849	1,829	1,724	1,929	1,714	1,640	1,601
25 to 54 years	1,680	1,665	1,604	1,550	1,578	1,541	1,519	1,518	1,360	1,556	1,392	1,315	1,297
55 years and over	364	398	368	335	343	296	325	312	342	369	337	339	289
Females, 16 years and over	3,227	3,295	3,333	3,277	3,256	3,361	3,221	3,288	3,314	3,219	3,311	3,097	2,994
16 to 19 years	811	783	797	803	794	811	762	765	801	772	783	688	747
16 to 17 years	379	360	368	365	373	351	338	339	363	332	353	336	346
18 to 19 years	434	422	424	447	421	454	422	434	442	444	433	339	402
20 to 24 years	730	756	751	731	724	737	711	718	734	727	742	724	707
25 years and over	1,700	1,753	1,781	1,759	1,712	1,809	1,794	1,792	1,778	1,712	1,779	1,679	1,554
25 to 54 years	1,455	1,494	1,563	1,525	1,475	1,558	1,513	1,556	1,527	1,481	1,517	1,457	1,335
55 years and over	235	259	233	245	243	242	232	243	246	246	268	246	214

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Selected categories	1977												1978
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
CHARACTERISTICS													
Total, 16 years and over	88,653	89,047	89,478	89,877	90,267	90,648	90,588	90,793	91,088	91,383	92,214	92,609	92,881
Married men, spouse present	38,199	38,214	38,317	38,450	38,430	38,565	38,380	38,292	38,338	38,425	38,531	38,682	38,645
Married women, spouse present	20,586	20,750	20,933	21,053	20,928	20,825	20,824	20,810	21,185	21,119	21,278	21,416	21,638
OCCUPATION													
White-collar workers	44,539	44,528	44,533	44,804	44,655	44,840	45,057	45,198	45,493	46,083	46,251	46,316	46,547
Professional and technical Managers and administrators, except farm	13,467	13,467	13,465	13,568	13,520	13,648	13,758	13,706	13,778	14,042	13,918	13,981	14,057
Sales workers	9,575	9,514	9,521	9,498	9,449	9,577	9,614	9,699	9,747	9,911	9,894	9,939	10,067
Clerical workers	5,681	5,791	5,656	5,744	5,686	5,682	5,715	5,726	5,741	5,718	5,804	5,796	5,913
Blue-collar workers	15,816	15,756	15,891	15,994	16,000	15,933	15,970	16,067	16,227	16,412	16,635	16,600	16,510
Craft and kindred workers	29,651	29,894	29,919	30,139	30,318	30,301	30,086	30,229	30,324	30,247	30,603	30,807	30,942
Operatives, except transport Transport equipment operatives	11,596	11,654	11,767	11,869	11,884	11,887	11,884	11,903	11,992	11,860	12,116	12,153	12,111
Nonfarm laborers	10,338	10,348	10,425	10,357	10,455	10,364	10,285	10,295	10,239	10,320	10,423	10,424	10,755
Service workers	3,371	3,446	3,471	3,462	3,537	3,495	3,413	3,453	3,533	3,457	3,525	3,555	3,432
Farm workers	4,346	4,446	4,256	4,451	4,442	4,555	4,504	4,578	4,560	4,610	4,539	4,675	4,644
Service workers	11,893	12,060	12,251	12,294	12,372	12,660	12,426	12,520	12,556	12,473	12,590	12,617	12,704
Farm workers	2,675	2,717	2,709	2,752	2,861	2,815	2,725	2,741	2,695	2,755	2,809	2,805	2,872
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,251	1,296	1,294	1,302	1,318	1,382	1,276	1,314	1,339	1,387	1,405	1,405	1,387
Self-employed workers	1,505	1,540	1,536	1,553	1,646	1,578	1,552	1,578	1,572	1,577	1,590	1,605	1,604
Unpaid family workers	356	351	343	361	378	373	357	318	272	305	368	346	342
Nonagricultural industries:													
Wage and salary workers	79,256	79,506	79,907	80,221	80,353	80,704	80,773	80,918	81,363	81,727	82,281	82,692	82,915
Government	14,997	14,932	14,939	14,980	15,078	15,003	15,130	15,210	15,304	15,463	15,415	15,422	15,267
Private industries	64,259	64,574	64,968	65,241	65,275	65,701	65,643	65,708	66,059	66,264	66,866	67,270	67,648
Private households	1,389	1,341	1,329	1,341	1,324	1,375	1,419	1,388	1,403	1,358	1,403	1,436	1,421
Other industries	62,870	63,233	63,639	63,900	63,951	64,326	64,224	64,320	64,656	64,906	65,463	65,834	66,227
Self-employed workers	5,851	5,856	5,923	5,946	6,017	6,005	5,899	6,140	6,084	6,080	6,082	6,182	6,259
Unpaid family workers	411	509	525	500	539	520	527	483	505	460	467	442	439
PERSONS AT WORK¹													
Nonagricultural industries	79,766	80,846	81,161	81,188	81,666	81,714	82,479	82,642	82,783	82,788	83,347	83,662	83,304
Full-time schedules	65,717	66,147	66,491	66,603	67,083	67,172	67,693	67,839	67,817	67,827	68,240	68,574	68,812
Part-time for economic reasons	3,243	3,441	3,271	3,192	3,268	3,390	3,464	3,253	3,306	3,263	3,285	3,220	2,986
Usually work full time	1,106	1,342	1,228	1,188	1,270	1,327	1,446	1,220	1,244	1,237	1,255	1,247	1,043
Usually work part time	2,137	2,099	2,043	2,004	1,998	2,063	2,018	2,033	2,062	2,026	2,030	1,973	1,943
Part time for noneconomic reasons	10,806	11,258	11,399	11,393	11,315	11,152	11,322	11,550	11,660	11,698	11,822	11,868	11,506

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					
	Jan. 1977	Dec. 1977	Jan. 1978	Jan. 1977	Sept. 1977	Oct. 1977	Nov. 1977	Dec. 1977	Jan. 1978
VETERANS¹									
Total, 20 to 34 years:									
Civilian noninstitutional population ²	6,847	6,620	6,609	6,847	6,815	6,819	6,821	6,620	6,609
Civilian labor force	6,492	6,307	6,268	6,478	6,523	6,519	6,464	6,331	6,281
Employed	5,881	5,966	5,828	5,987	6,040	6,053	6,026	5,976	5,926
Unemployed	611	341	440	491	483	466	438	355	355
Unemployment rate	9.4	5.4	7.0	7.6	7.4	7.1	6.8	5.6	5.7
20 to 24 years:									
Civilian noninstitutional population ²	1,086	844	838	1,086	1,036	1,033	1,028	844	838
Civilian labor force	975	743	747	970	938	920	919	748	751
Employed	772	656	623	810	761	779	789	660	654
Unemployed	203	87	124	160	177	141	130	88	97
Unemployment rate	20.8	11.7	16.6	16.5	18.9	15.3	14.1	11.8	12.9
25 to 29 years:									
Civilian noninstitutional population ²	3,141	2,618	2,579	3,141	2,960	2,927	2,894	2,618	2,579
Civilian labor force	2,981	2,478	2,431	2,968	2,836	2,794	2,716	2,499	2,431
Employed	2,689	2,337	2,245	2,734	2,668	2,609	2,543	2,346	2,282
Unemployed	292	141	186	234	174	185	173	153	149
Unemployment rate	9.8	5.7	7.7	7.9	6.1	6.6	6.4	6.1	6.1
30 to 34 years:									
Civilian noninstitutional population ²	2,620	3,158	3,192	2,620	2,819	2,859	2,899	3,158	3,192
Civilian labor force	2,536	3,086	3,090	2,540	2,749	2,805	2,829	3,084	3,099
Employed	2,420	2,973	2,960	2,443	2,617	2,665	2,694	2,970	2,990
Unemployed	116	113	130	97	132	140	135	114	109
Unemployment rate	4.6	3.7	4.2	3.8	4.8	5.0	4.8	3.7	3.5
35 to 39 years:									
Civilian noninstitutional population ²	550	914	947	550	688	714	739	914	947
Civilian labor force	534	893	926	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	500	872	894	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	34	21	32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	6.4	2.4	3.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NONVETERANS									
Total, 20 to 34 years:									
Civilian noninstitutional population ²	17,116	18,218	18,100	17,116	17,781	17,844	17,900	18,218	18,100
Civilian labor force	15,312	16,301	16,191	15,489	15,961	16,054	16,192	16,479	16,417
Employed	13,818	15,202	14,819	14,220	14,824	14,885	15,081	15,347	15,248
Unemployed	1,494	1,099	1,372	1,269	1,137	1,169	1,111	1,132	1,169
Unemployment rate	9.8	6.7	8.5	8.2	7.1	7.3	6.9	6.9	7.1
20 to 24 years:									
Civilian noninstitutional population ²	8,018	8,437	8,293	8,018	8,204	8,222	8,237	8,437	8,293
Civilian labor force	6,729	7,041	6,924	6,885	6,955	6,994	7,011	7,190	7,090
Employed	5,896	6,403	6,110	6,149	6,299	6,347	6,361	6,511	6,371
Unemployed	833	638	814	736	656	647	650	679	719
Unemployment rate	12.4	9.1	11.8	10.7	9.4	9.3	9.3	9.4	10.1
25 to 29 years:									
Civilian noninstitutional population ²	5,211	5,781	5,811	5,211	5,404	5,449	5,491	5,781	5,811
Civilian labor force	4,879	5,450	5,475	4,888	5,034	5,089	5,187	5,471	5,518
Employed	4,412	5,161	5,102	4,517	4,739	4,762	4,904	5,188	5,222
Unemployed	467	289	373	371	295	327	283	283	296
Unemployment rate	9.6	5.3	6.8	7.6	5.9	6.4	5.5	5.2	5.4
30 to 34 years:									
Civilian noninstitutional population ²	3,887	4,000	3,996	3,887	4,173	4,173	4,172	4,000	3,996
Civilian labor force	3,704	3,810	3,792	3,716	3,972	3,971	3,994	3,818	3,809
Employed	3,510	3,638	3,607	3,554	3,786	3,776	3,816	3,648	3,655
Unemployed	194	172	185	162	186	195	178	170	154
Unemployment rate	5.2	4.5	4.9	4.4	4.7	4.9	4.5	4.5	4.0
35 to 39 years:									
Civilian noninstitutional population ²	3,413	3,491	3,510	3,413	3,518	3,535	3,554	3,491	3,510
Civilian labor force	3,256	3,360	3,361	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	3,080	3,246	3,238	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	176	114	123	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	5.4	3.4	3.7	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 May 7, 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	3,382
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
1977 ^p	82,142	24,231	831	3,845	19,555	57,911	4,589	18,291	4,389	13,902	4,508	15,333	15,190	2,727	12,463
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.....	83,672	24,907	863	4,161	19,883	58,765	4,638	18,533	4,450	14,083	4,567	15,580	15,447	2,714	12,733
Nov.....	84,092	24,840	865	4,096	19,879	59,252	4,657	18,796	4,469	14,327	4,583	15,608	15,608	2,716	12,892
Dec.....	84,185	24,496	709	3,893	19,894	59,689	4,655	19,250	4,480	14,770	4,595	15,581	15,608	2,724	12,884
1978:															
Jan ^p	82,514	24,026	710	3,558	19,758	58,488	4,582	18,474	4,456	14,018	4,577	15,430	15,425	2,701	12,724

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
-	TOTAL	81,099	79,473	84,092	84,185	82,514	-	-	-	-	-
-	PRIVATE SECTOR	65,838	64,414	68,484	68,577	67,089	54,219	52,746	56,224	56,358	54,845
-	MINING	805	806	865	709	710	611	600	651	516	517
10	METAL MINING	94.4	95.6	81.6	90.1	-	72.7	73.6	59.8	67.7	-
101	Iron ores	25.2	25.2	10.0	19.0	-	20.2	20.2	5.2	13.3	-
102	Copper ores	36.0	36.6	36.0	35.9	-	27.5	28.1	28.1	28.3	-
11,12	COAL MINING	223.3	225.3	242.1	77.8	-	190.7	183.0	202.8	61.2	-
12	Bituminous coal and lignite mining	219.4	221.4	238.1	73.8	-	187.3	179.6	199.2	57.7	-
13	OIL AND GAS EXTRACTION	375.4	379.6	419.4	423.3	-	258.9	262.5	291.9	295.0	-
131,2	Crude petroleum and natural gas fields	167.5	167.5	178.9	179.6	-	83.4	83.3	88.8	88.7	-
138	Oil and gas field services	207.9	212.1	240.5	243.7	-	175.5	179.2	203.1	206.3	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	112.3	105.0	121.7	117.5	-	88.5	81.1	96.6	92.5	-
142	Crushed and broken stone	38.9	34.7	42.9	40.8	-	31.8	27.5	35.6	33.5	-
144	Sand and gravel	33.7	30.8	38.1	35.8	-	-	-	-	-	-
-	CONTRACT CONSTRUCTION	3,547	3,198	4,096	3,893	3,558	2,797	2,435	3,297	3,096	2,754
15	GENERAL BUILDING CONTRACTORS	1,071.9	965.8	1,215.1	1,166.9	-	833.9	722.4	960.8	912.4	-
16	HEAVY CONSTRUCTION CONTRACTORS	663.2	553.3	837.2	732.1	-	527.8	415.1	699.6	598.6	-
161	Highway and street construction	261.9	201.8	376.6	305.2	-	211.1	150.3	318.3	249.9	-
162	Heavy construction, nec	401.3	351.5	460.6	426.9	-	316.7	264.8	381.3	348.7	-
17	SPECIAL TRADE CONTRACTORS	1,811.9	1,679.3	2,044.1	1,994.4	-	1,435.7	1,297.2	1,636.3	1,584.7	-
171	Plumbing, heating, air conditioning	432.6	420.1	475.5	472.8	-	327.5	313.2	361.4	358.1	-
172	Painting, paper hanging, decorating	132.8	122.2	158.1	149.3	-	111.6	101.3	133.6	124.6	-
173	Electrical work	327.0	316.2	344.2	341.4	-	255.9	245.4	270.3	266.9	-
174	Masonry, stonework, and plastering	195.0	167.1	235.5	225.8	-	169.0	139.1	204.3	194.4	-
178	Roofing and sheet metal work	132.6	107.0	155.9	144.9	-	108.1	81.4	128.1	117.2	-
-	MANUFACTURING	19,128	19,001	19,879	19,894	19,758	13,730	13,606	14,339	14,339	14,197
19,24,25, 32-39	DURABLE GOODS	11,189	11,141	11,720	11,778	11,736	7,989	7,936	8,429	8,474	8,419
20-23, 26-31	NONDURABLE GOODS	7,939	7,860	8,159	8,116	8,022	5,741	5,670	5,910	5,865	5,778
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	157.1	156.9	151.8	156.1	155.8	70.7	70.5	69.5	70.5	70.6
192	Ammunition, except for small arms	102.9	102.7	95.4	100.0	100.0	36.8	36.5	33.9	35.6	35.9
1925	Complete guided missiles	84.9	84.8	76.8	81.4	-	23.6	23.4	20.5	22.2	-
1929	Ammunition, exc. for small arms, nec	18.0	17.9	18.6	18.6	-	13.2	13.1	13.4	13.4	-
24	LUMBER AND WOOD PRODUCTS	614.2	602.1	658.1	653.9	644.3	516.4	506.7	562.9	557.5	548.3
241	Logging camps and logging contractors	75.4	70.5	74.4	72.1	71.8	-	-	-	-	-
242	Sawmills and planing mills	211.3	207.3	218.3	217.1	212.0	187.4	183.6	195.1	193.7	189.1
2421	Sawmills and planing mills, general	179.5	175.8	184.9	183.6	-	159.1	155.6	165.5	163.9	-
243	Millwork, plywood and related products	208.5	205.7	238.7	238.1	234.5	172.4	169.9	199.9	198.5	194.8
2431	Millwork	94.0	94.1	109.4	110.0	-	76.7	76.6	90.7	91.0	-
2432	Veneer and plywood	75.3	75.1	79.7	79.7	-	67.1	67.0	70.8	70.6	-
244	Wooden containers	21.4	20.4	20.9	20.9	20.7	18.8	17.9	18.4	18.4	18.3
2441,2	Wooden boxes, shooks, and crates	17.2	16.4	16.6	16.5	-	15.2	14.5	14.7	14.7	-
249	Miscellaneous wood products	97.6	98.2	105.8	105.7	105.3	79.0	79.7	88.7	88.8	88.1

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^p	Jan. 1978 ^p	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^p	Jan. 1978 ^p
DURABLE GOODS—Continued											
25	FURNITURE AND FIXTURES	495.9	493.4	527.7	529.6	527.7	408.0	403.4	435.2	436.0	435.2
251	Household furniture	358.7	355.8	382.0	382.5	(*)	304.6	299.8	323.6	323.6	(*)
2511	Wood household furniture	184.2	182.0	196.9	197.0	-	162.3	159.2	172.4	172.6	-
2512	Upholstered household furniture	105.3	104.2	111.0	111.4	-	87.5	85.7	91.7	91.8	-
2515	Mattresses and bedspings	32.7	32.3	34.4	34.5	-	25.0	24.7	27.0	27.0	-
252	Office furniture	40.6	40.6	43.3	44.1	-	32.8	32.8	35.4	35.8	-
254	Partitions and fixtures	51.9	52.5	56.2	56.2	-	38.4	38.8	42.1	42.1	-
253,9	Other furniture and fixtures	44.7	44.5	46.2	46.8	45.7	32.2	32.0	34.1	34.5	33.5
STONE, CLAY, AND GLASS PRODUCTS											
32	Flat glass	623.7	609.1	672.1	665.7	651.8	494.6	480.2	536.4	529.4	515.5
321	Glass and glassware, pressed or blown	131.0	131.5	137.9	137.2	(*)	113.3	114.1	119.2	118.5	(*)
3221	Glass containers	76.9	77.2	79.4	79.6	-	68.4	69.2	70.6	70.8	-
3229	Pressed and blown glass, nec	54.1	54.3	58.5	57.6	-	44.9	44.9	48.6	47.7	-
324	Cement, hydraulic	29.4	28.5	30.4	30.4	30.1	23.1	22.2	24.2	24.1	24.0
325	Structural clay products	47.5	46.1	51.9	51.7	50.2	37.7	36.2	41.7	41.5	40.4
3251	Brick and structural clay tile	20.5	19.5	23.9	23.7	-	16.8	15.7	19.9	19.9	-
326	Pottery and related products	40.9	40.9	42.5	42.3	-	34.4	34.4	35.9	35.8	-
327	Concrete, gypsum, and plaster products	185.9	175.0	210.4	204.6	192.6	143.4	133.4	164.4	159.1	147.1
328,9	Other stone and nonmetallic mineral products	134.4	132.6	140.1	140.8	139.9	101.1	99.2	106.5	106.7	106.9
3291	Abrasive products	24.5	24.3	24.8	25.3	-	17.2	17.1	17.4	17.9	-
PRIMARY METAL INDUSTRIES											
33	Blast furnace and basic steel products	1,182.3	1,180.2	1,199.9	1,202.6	1,208.8	924.3	921.6	939.3	943.1	949.3
331	Blast furnaces and steel mills	531.6	532.0	528.1	529.4	(*)	412.0	413.2	410.0	412.7	(*)
3312	Iron and steel foundries	459.1	459.8	456.9	458.6	-	357.4	359.0	355.9	359.0	-
332	Gray iron foundries	216.6	214.6	223.9	224.1	225.5	117.6	117.2	183.8	183.7	184.8
3321	Malleable iron foundries	139.3	137.5	145.4	145.1	-	116.1	114.1	121.3	120.8	-
3322	Steel foundries	20.1	20.0	19.6	19.5	-	16.1	16.0	15.8	15.7	-
3323	Nonferrous metals	57.2	57.1	58.9	59.5	-	45.4	45.1	46.7	47.2	-
333,4	Primary aluminum	85.5	86.1	87.8	87.5	89.7	65.3	65.5	67.2	67.3	69.0
3334	Nonferrous rolling and drawing	34.7	35.0	35.7	35.9	-	28.1	28.4	28.8	29.0	-
335	Copper rolling and drawing	195.8	194.7	196.5	197.4	196.5	145.3	143.8	144.5	145.2	143.7
3351	Aluminum rolling and drawing	35.9	35.5	33.8	34.1	-	27.2	26.9	25.7	25.7	-
3352	Nonferrous wire drawing and insulating	61.9	62.2	64.2	63.9	-	45.0	44.9	46.6	46.5	-
3357	Nonferrous foundries	78.2	77.5	78.1	79.1	-	58.9	58.1	58.3	59.1	-
336	Aluminum castings	80.2	80.6	87.5	87.7	87.0	66.5	66.7	73.0	73.3	72.2
3361	Other nonferrous castings	44.4	44.4	49.3	49.5	-	37.4	37.3	41.6	41.9	-
3362,9	Miscellaneous primary metal products	35.8	36.2	38.2	38.2	-	29.1	29.4	31.4	31.4	-
339	Iron and steel forgings	72.6	72.2	76.1	76.5	76.8	57.6	57.2	60.8	60.9	61.9
3391	Metal cans	46.8	46.6	48.7	48.9	-	37.4	37.1	39.3	39.2	-
FABRICATED METAL PRODUCTS											
34	Metal cans	1,409.4	1,403.3	1,493.6	1,496.4	1,485.7	1,064.7	1,058.9	1,137.6	1,139.9	1,130.1
341	Cutlery, hand tools, and hardware	59.7	60.3	59.7	57.5	58.8	50.9	51.3	50.5	48.4	49.8
342	Cutlery and hand tools, including saws	172.8	173.0	183.3	183.7	180.7	135.2	135.5	144.4	145.4	143.7
3421,3,5	Hardware, nec	72.0	71.9	72.9	73.3	-	55.9	56.0	56.6	57.1	-
3429	Plumbing and heating, except electric	100.8	101.1	110.4	110.4	-	79.3	79.5	87.8	88.3	-
343	Sanitary ware and plumbers' brass goods	71.2	71.4	77.8	78.4	76.7	52.7	53.0	58.2	58.5	57.4
3431,2	Heating equipment, except electric	31.3	31.9	34.2	34.6	-	23.8	24.5	26.4	26.6	-
3433	Fabricated structural metal products	39.9	39.5	43.6	43.8	-	28.9	28.5	31.8	31.9	-
344	Fabricated structural steel	453.3	448.7	484.3	484.8	482.7	314.3	310.6	341.8	341.6	339.4
3441	Meta'doors, sash, and trim	97.7	96.0	98.4	97.9	-	68.8	68.1	70.1	69.6	-
3442	Fabricated plate work (boiler shops)	71.3	70.1	84.1	84.2	-	52.5	51.1	64.1	64.2	-
3443	Sheet metal work	138.1	136.9	139.3	139.6	-	89.2	88.2	90.5	90.9	-
3444	Architectural and miscellaneous metal work	88.6	88.6	99.0	99.2	-	64.3	64.3	72.8	72.4	-
3446,9	Screw machine products, bolts, etc	57.6	57.1	63.5	63.9	-	39.5	38.9	44.3	44.5	-
345	Bolts, nuts, rivets, and washers	102.2	102.4	109.0	109.7	110.0	79.5	79.8	85.9	86.2	86.0
3451	Metal stampings	48.7	48.7	53.2	53.8	-	40.1	40.1	43.9	44.4	-
3452	Metal services, nec	53.5	53.7	55.8	55.9	-	39.4	39.7	42.0	41.8	-
346	Miscellaneous fabricated wire products	230.5	227.9	243.0	245.1	(*)	188.2	185.3	200.1	201.9	(*)
347	Miscellaneous fabricated metal products	91.7	91.7	98.9	98.6	98.0	74.9	74.7	81.4	80.9	80.3
348	Valves, pipe, and pipe fittings	58.9	58.5	61.5	61.7	61.6	46.1	45.6	48.4	48.6	48.4
349	Valves, pipe, and pipe fittings	169.1	169.4	176.1	176.9	177.5	122.9	123.1	126.9	128.4	128.4
3494,8	Valves, pipe, and pipe fittings	110.8	111.0	116.2	116.8	-	76.3	76.4	79.7	80.7	-

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
DURABLE GOODS—Continued											
35	MACHINERY, EXCEPT ELECTRICAL	2, 122. 1	2, 130. 9	2, 246. 4	2, 274. 8	2, 276. 5	1, 373. 2	1, 379. 5	1, 468. 9	1, 492. 8	1, 490. 3
351	Engines and turbines	114. 6	115. 4	114. 9	118. 5	118. 0	74. 0	74. 9	73. 8	75. 9	75. 5
3511	Steam engines and turbines	43. 4	43. 3	42. 7	42. 8	—	23. 0	23. 0	22. 4	22. 2	—
3519	Internal combustion engines, nec.	71. 2	72. 1	72. 2	75. 7	—	51. 0	51. 9	51. 4	53. 7	—
352	Farm machinery	146. 5	148. 6	145. 1	147. 6	—	102. 2	104. 3	99. 4	101. 8	—
353	Construction and related machinery	336. 4	337. 4	362. 1	364. 3	363. 6	216. 0	217. 7	238. 9	241. 0	238. 2
3531.2	Construction and mining machinery	173. 9	175. 5	185. 3	187. 1	—	100. 8	112. 6	122. 3	124. 8	—
3533	Oil field machinery	70. 3	69. 2	75. 8	76. 7	—	49. 3	48. 8	53. 1	54. 0	—
3535.6	Conveyors, hoists, cranes, monorails	48. 4	48. 6	52. 0	51. 7	—	28. 6	28. 6	31. 4	31. 1	—
3537	Industrial trucks and tractors	31. 9	32. 1	36. 5	36. 2	—	21. 1	21. 3	25. 0	23. 9	—
354	Metal working machinery	320. 9	321. 0	338. 1	342. 4	343. 4	235. 2	235. 5	249. 9	254. 0	256. 0
3541	Machine tools, metal cutting types	62. 4	61. 7	64. 2	66. 0	—	40. 2	40. 0	42. 5	44. 2	—
3544	Special dies, tools, jigs, and fixtures	127. 8	128. 4	138. 2	139. 7	—	103. 0	103. 2	112. 1	113. 6	—
3545	Machine tool accessories	56. 1	56. 1	59. 4	59. 9	—	40. 1	40. 1	42. 2	42. 7	—
3542.8	Miscellaneous metal working machinery	74. 6	74. 8	76. 3	76. 8	—	51. 9	52. 2	53. 1	53. 5	—
355	Special industry machinery	178. 3	178. 4	181. 6	182. 4	182. 2	113. 5	113. 4	116. 1	117. 0	116. 9
3551	Food products machinery	41. 6	41. 7	42. 8	43. 0	—	26. 8	26. 8	27. 3	27. 5	—
3552	Textile machinery	31. 1	30. 6	30. 5	30. 6	—	22. 5	22. 0	22. 1	22. 2	—
3555	Printing trades machinery	25. 4	25. 8	27. 8	28. 1	—	14. 8	15. 0	16. 7	16. 9	—
356	General industrial machinery	292. 1	292. 5	304. 8	307. 7	308. 2	191. 6	192. 5	201. 0	203. 4	203. 0
3561	Pumps and compressors	83. 5	83. 7	87. 2	87. 6	—	49. 9	50. 5	52. 6	53. 1	—
3562	Ball and roller bearings	54. 9	54. 7	59. 5	60. 4	—	42. 2	41. 9	44. 9	45. 6	—
3564	Blowers and fans	35. 1	35. 3	35. 8	36. 2	—	22. 2	22. 7	23. 2	23. 5	—
3566	Power transmission equipment	46. 3	46. 7	48. 8	49. 1	—	32. 5	32. 5	34. 7	34. 7	—
357	Office and computing machines	306. 0	307. 3	336. 9	341. 4	343. 9	124. 3	124. 0	142. 5	146. 4	146. 7
3573	Electronic computing equipment	231. 7	232. 9	262. 5	265. 9	—	80. 7	80. 5	99. 7	101. 8	—
358	Service industry machines	167. 5	168. 7	179. 3	182. 6	182. 9	116. 7	117. 6	127. 6	129. 8	129. 7
3585	Refrigeration machinery	116. 8	118. 3	125. 0	128. 4	—	83. 6	84. 5	90. 3	92. 7	—
359	Miscellaneous machinery, except electrical	259. 8	261. 6	283. 6	287. 9	287. 2	199. 7	199. 6	219. 7	223. 5	223. 0
36	ELECTRICAL EQUIPMENT AND SUPPLIES	1, 876. 2	1, 871. 9	1, 995. 5	2, 002. 9	2, 005. 4	1, 245. 7	1, 236. 0	1, 334. 6	1, 339. 6	1, 338. 4
361	Electric test and distributing equipment	196. 5	196. 6	210. 7	213. 1	(*)	132. 3	131. 8	143. 4	144. 9	(*)
3611	Electric measuring instruments	72. 2	72. 6	80. 0	81. 2	—	43. 8	44. 0	48. 4	49. 1	—
3612	Transformers	48. 2	48. 2	51. 6	52. 1	—	34. 3	34. 1	37. 9	38. 3	—
3613	Switchgear and switchboard apparatus	76. 1	75. 8	79. 1	79. 8	—	54. 2	53. 7	57. 1	57. 5	—
362	Electrical industrial apparatus	218. 8	218. 1	227. 7	229. 1	228. 5	156. 5	155. 3	162. 2	163. 4	162. 4
3621	Motors and generators	106. 9	106. 4	110. 7	111. 8	—	80. 0	79. 4	83. 5	84. 6	—
3622	Industrial controls	69. 8	69. 3	73. 4	73. 3	—	46. 2	45. 6	47. 6	47. 3	—
363	Household appliances	165. 8	167. 2	185. 1	184. 5	184. 0	128. 7	129. 1	146. 4	145. 7	144. 7
3632	Household refrigerators and freezers	34. 0	35. 3	37. 7	38. 1	—	25. 2	26. 4	29. 3	29. 6	—
3633	Household laundry equipment	24. 2	24. 3	26. 2	26. 4	—	19. 0	18. 6	20. 3	20. 5	—
3634	Electric housewares and fans	50. 3	50. 4	59. 1	57. 6	—	39. 9	40. 1	47. 6	46. 4	—
364	Electric lighting and wiring equipment	201. 1	200. 5	213. 2	213. 8	213. 4	154. 3	153. 1	164. 1	164. 2	163. 4
3641	Electric lamps	37. 8	38. 0	38. 3	38. 4	—	33. 5	33. 7	34. 2	34. 3	—
3642	Lighting fixtures	65. 3	64. 7	69. 7	69. 8	—	50. 6	49. 6	54. 0	54. 0	—
3643.4	Wiring devices	98. 0	97. 8	105. 2	105. 6	—	70. 2	69. 8	75. 9	75. 9	—
365	Radio and TV receiving equipment	129. 5	127. 9	141. 0	139. 7	139. 6	94. 2	89. 7	104. 5	104. 0	103. 8
366	Communication equipment	428. 0	427. 1	452. 0	453. 8	453. 7	214. 0	213. 6	228. 2	229. 0	228. 1
3661	Telephone and telegraph apparatus	138. 8	139. 6	149. 9	150. 4	—	92. 9	93. 4	102. 7	103. 2	—
3662	Radio and TV communication equipment	289. 2	287. 5	302. 1	303. 4	—	121. 1	120. 2	125. 5	125. 8	—
367	Electronic components and accessories	384. 0	382. 6	400. 2	402. 6	404. 4	246. 7	245. 0	256. 9	258. 9	259. 4
3671.3	Electron tubes	41. 7	41. 6	43. 5	43. 6	—	27. 0	26. 7	28. 3	28. 5	—
3674.9	Other electronic components	342. 3	341. 0	356. 7	359. 0	—	219. 7	218. 2	228. 6	230. 4	—
369	Miscellaneous electrical equipment and supplies	152. 5	151. 9	165. 6	166. 3	166. 5	119. 0	118. 4	128. 9	129. 5	128. 9
3694	Engine electrical equipment	80. 3	80. 0	85. 3	86. 1	—	64. 4	64. 1	68. 6	69. 6	—
37	TRANSPORTATION EQUIPMENT	1, 778. 6	1, 769. 0	1, 813. 6	1, 843. 6	1, 832. 6	1, 263. 3	1, 256. 4	1, 289. 8	1, 319. 4	1, 300. 1
371	Motor vehicles and equipment	891. 0	878. 3	924. 7	935. 6	(*)	697. 4	686. 3	725. 6	735. 0	(*)
3711	Motor vehicles	375. 0	365. 1	380. 2	387. 7	—	282. 5	274. 3	286. 7	293. 2	—
3712	Passenger car bodies	49. 3	49. 1	46. 9	47. 1	—	39. 2	38. 4	36. 1	36. 2	—
3713	Truck and bus bodies	39. 6	39. 6	44. 5	44. 8	—	30. 2	30. 2	35. 3	35. 6	—
3714	Motor vehicle parts and accessories	403. 5	401. 3	426. 2	428. 6	—	327. 5	325. 7	346. 8	348. 8	—
3715	Truck trailers	23. 6	23. 2	26. 9	27. 4	—	18. 0	17. 7	20. 7	21. 2	—
372	Aircraft and parts	484. 5	483. 4	458. 0	480. 0	(*)	248. 4	248. 7	224. 2	246. 6	(*)
3721	Aircraft	262. 0	261. 1	226. 3	247. 3	—	123. 1	123. 5	92. 0	113. 5	—
3722	Aircraft engines and engine parts	131. 9	132. 1	137. 0	137. 6	—	71. 2	71. 1	74. 7	74. 7	—
3723.9	Other aircraft parts and equipment	90. 6	90. 2	94. 7	95. 1	—	54. 1	54. 1	57. 5	58. 4	—
373	Ship and boat building and repairing	221. 3	221. 5	230. 8	229. 4	(*)	176. 8	176. 9	183. 0	182. 6	(*)
3731	Ship building and repairing	172. 0	172. 0	182. 6	181. 3	—	136. 4	136. 3	143. 8	143. 5	—

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^p	Jan. 1978 ^p	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^p	Jan. 1978 ^p
DURABLE GOODS—Continued											
TRANSPORTATION EQUIPMENT—Continued											
3732	Boat building and repairing	49.3	49.5	48.2	48.1	—	40.4	40.6	39.2	39.1	—
374	Railroad equipment	45.5	45.2	41.4	(*)	—	33.7	33.6	29.8	(*)	—
375,9	Other transportation equipment	136.3	140.6	158.7	156.8	—	107.0	110.9	127.2	124.9	—
38	INSTRUMENTS AND RELATED PRODUCTS	518.7	519.2	534.9	537.9	538.0	316.9	316.7	328.8	330.4	329.6
381	Engineering and scientific instruments	58.6	58.7	60.6	61.2	—	28.0	28.0	28.7	29.0	—
382	Mechanical measuring and control devices	119.5	119.9	126.4	127.5	128.2	76.3	76.8	82.4	83.5	83.8
3821	Mechanical measuring devices	78.7	78.6	83.8	84.0	—	47.5	47.6	52.0	52.3	—
3822	Automatic temperature controls	40.8	41.3	42.6	43.5	—	28.8	29.2	30.4	31.2	—
383,5	Optical and ophthalmic goods	66.9	67.9	71.1	71.3	70.5	45.6	46.4	48.4	48.3	47.7
385	Ophthalmic goods	42.6	43.9	45.3	45.3	—	31.3	32.0	33.2	33.2	—
384	Medical instruments and supplies	112.1	112.8	118.2	119.8	120.1	75.2	75.6	79.5	80.7	80.9
386	Photographic equipment and supplies	131.0	130.0	129.4	129.2	(*)	67.7	66.3	67.2	66.6	(*)
387	Watches, clocks, and watchcases	30.6	29.9	29.2	28.9	—	24.1	23.6	22.6	22.3	—
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	410.6	404.5	426.2	414.5	409.4	311.4	305.7	325.9	315.6	311.1
391	Toys and sporting goods	55.4	54.0	58.6	58.0	56.5	41.1	39.3	43.4	42.8	41.7
394	Games, toys, dolls, and play vehicles	111.2	110.0	117.2	106.2	—	84.2	82.9	89.2	78.8	—
3941,3	Sporting and athletic goods, nec	55.7	54.5	62.3	50.7	—	39.7	38.4	46.1	35.2	—
3949	Pens, pencils, office, and art supplies	55.5	55.5	54.9	55.5	—	44.5	44.5	43.1	43.6	—
395	Costume jewelry and notions	33.5	32.8	34.5	33.7	—	23.7	23.2	25.1	24.5	—
396	Other manufacturing industries	52.7	51.0	52.5	52.6	—	42.5	41.0	42.7	42.7	—
393,9	Musical instruments and parts	157.8	156.7	163.4	164.0	162.4	119.9	119.3	125.5	126.8	125.0
393	.....	23.7	23.5	24.1	24.1	—	19.3	19.1	19.5	19.5	—
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,694.3	1,659.5	1,723.7	1,695.6	1,653.0	1,144.8	1,111.6	1,169.8	1,141.2	1,101.7
201	Meat products	362.0	355.7	367.4	366.4	362.0	298.5	292.6	304.0	302.2	297.8
2011	Meat packing plants	174.7	173.2	171.8	171.7	—	140.8	139.6	138.0	137.3	—
2013	Sausages and other prepared meats	68.1	67.6	68.6	69.0	—	48.9	48.3	50.3	50.5	—
2015	Poultry dressing plants	119.2	114.9	127.0	125.7	—	108.8	104.7	115.7	114.4	—
202	Dairy products	190.6	188.7	192.0	191.2	188.6	97.9	97.2	99.0	98.1	97.5
2024	Ice cream and frozen desserts	20.8	20.4	21.6	21.2	—	10.5	10.6	11.6	11.2	—
2026	Fluid milk	123.7	122.9	124.6	124.2	—	52.9	52.3	53.2	52.9	—
203	Canned, cured, and frozen foods	259.2	244.8	274.4	250.3	—	208.8	195.2	222.7	199.7	—
2031,6	Canned, cured, and frozen sea foods	43.2	39.1	41.7	42.4	—	37.4	33.4	36.4	37.0	—
2032,3	Canned food, except sea foods	108.3	104.9	124.2	107.5	—	82.3	79.3	96.3	80.3	—
2037	Frozen fruits and vegetables	64.5	59.4	63.9	59.8	—	55.8	50.8	55.7	51.8	—
204	Grain mill products	147.4	146.9	147.3	146.5	146.3	102.1	101.2	102.6	101.8	101.5
2041	Flour and other grain mill products	27.5	27.2	29.0	29.0	—	19.5	18.4	20.0	20.1	—
2042	Prepared feeds for animals and fowls	75.8	75.6	73.3	72.8	—	49.4	49.5	48.6	47.9	—
205	Bakery products	242.6	237.7	241.6	241.3	238.7	140.6	137.2	140.4	140.2	138.0
2051	Bread, cake, and related products	201.2	197.1	202.9	202.8	—	107.6	104.7	109.5	109.4	—
2052	Cookies and crackers	41.4	40.6	38.7	38.5	—	33.0	32.5	30.9	30.8	—
206	Sugar	40.3	37.0	32.4	33.8	—	32.5	29.3	26.2	26.7	—
207	Confectionery and related products	80.7	78.4	82.3	81.1	79.3	62.3	60.3	64.8	63.3	59.5
2071	Confectionery products	59.8	56.7	60.8	59.5	—	47.4	44.9	49.5	48.0	—
208	Beverages	224.7	224.3	234.9	234.5	230.7	107.0	104.5	111.8	111.4	108.6
2082	Malt liquors	48.4	48.1	50.4	51.0	—	34.5	34.0	35.3	35.9	—
2086	Bottled and canned soft drinks	132.2	131.3	137.7	138.1	—	47.3	46.5	49.4	49.5	—
209	Miscellaneous foods and kindred products	146.8	146.0	151.4	150.5	149.3	95.1	94.1	98.3	97.8	97.9
21	TOBACCO MANUFACTURES	79.4	74.1	72.8	71.9	68.1	66.5	61.2	58.9	58.1	54.3
211	Cigarettes	45.3	44.8	44.3	44.5	—	37.2	36.6	34.5	34.7	—
212	Cigars	10.0	9.8	9.7	9.6	—	8.6	8.5	8.4	8.4	—
22	TEXTILE MILL PRODUCTS	962.8	956.2	995.5	992.5	986.2	838.5	833.4	868.2	865.5	859.7
221	Weaving mills, cotton	175.1	174.3	169.9	170.7	168.3	158.8	157.9	152.9	153.8	151.7
222	Weaving mills, synthetics	123.5	122.1	120.0	120.1	120.0	110.1	109.6	107.4	107.7	107.5
223	Weaving and finishing mills, wool	22.9	23.1	22.2	22.6	22.8	19.2	19.4	18.6	18.7	18.9
224	Narrow fabric mills	25.4	25.5	27.1	27.4	27.5	22.0	22.1	23.9	24.0	24.3
225	Knitting mills	256.1	253.6	280.0	274.8	271.7	219.5	217.4	242.0	237.1	234.3
2251	Women's hosiery, except socks	39.3	38.5	39.4	39.8	—	34.5	34.1	35.1	35.5	—
2252	Hosiery, nec	34.1	33.5	37.5	37.4	—	30.2	29.8	34.0	33.8	—
2253	Knit outerwear mills	75.5	73.5	86.6	81.0	—	63.9	62.3	74.2	68.7	—
2254	Knit underwear mills	39.6	39.5	42.4	42.5	—	34.3	34.0	36.4	36.7	—

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
	NONDURABLE GOODS—Continued										
	TEXTILE MILL PRODUCTS—Continued										
226	Textile finishing, except wool	79.3	78.5	82.1	81.8	81.6	67.2	66.5	69.7	69.4	69.0
227	Floor covering mills	60.6	60.6	66.1	66.1	—	48.0	47.9	53.1	53.2	—
228	Yarn and thread mills	152.8	152.3	159.6	160.7	160.2	139.7	139.4	145.5	146.6	146.1
229	Miscellaneous textile goods	67.1	66.2	68.5	68.3	68.4	54.0	53.2	55.1	55.0	55.4
231, 266	APPAREL AND OTHER TEXTILE PRODUCTS	1,266.9	1,252.0	1,306.0	1,288.1	1,271.8	1,085.0	1,071.0	1,119.6	1,103.3	1,088.8
231	Men's and boys' suits and coats	89.4	88.2	87.9	88.7	87.4	78.7	78.1	76.4	77.1	76.1
232	Men's and boys' furnishings	376.5	373.7	386.1	382.9	377.0	320.4	318.0	332.4	329.2	323.8
2321	Men's and boys' shirts and nightwear	114.7	113.7	111.7	110.4	—	99.6	98.5	96.5	95.3	—
2327	Men's and boys' separate trousers	85.0	84.9	86.5	86.7	—	73.7	73.7	75.8	75.9	—
2328	Men's and boys' work clothing	94.7	94.4	100.6	100.6	—	77.4	76.8	84.7	84.8	—
233	Women's and misses' outerwear	367.3	362.8	375.1	363.9	360.6	320.5	315.9	325.7	315.1	312.1
2331	Women's and misses' blouses and waists	46.2	46.2	48.2	47.0	—	40.6	40.6	42.2	41.0	—
2335	Women's and misses' dresses	158.2	155.5	159.2	155.2	—	140.7	137.9	141.0	137.5	—
2337	Women's and misses' suits and coats	52.7	50.7	53.7	48.4	—	44.2	42.2	45.1	40.0	—
2339	Women's and misses' outerwear, nec	110.2	110.4	114.0	113.3	—	95.0	95.2	97.4	96.6	—
234	Women's and children's undergarments	99.2	97.7	103.8	102.5	98.1	84.0	82.5	87.9	87.0	83.2
2341	Women's and children's underwear	74.7	73.9	79.2	78.0	—	64.5	63.7	68.2	67.3	—
2342	Corsets and allied garments	24.5	23.8	24.6	24.5	—	19.5	18.8	19.7	19.7	—
235	Hats, caps, and millinery	16.1	15.8	15.9	16.0	—	14.1	13.8	14.0	14.0	—
236	Children's outerwear	73.3	74.7	74.6	74.4	73.5	62.4	63.6	63.2	63.4	62.4
2361	Children's dresses and blouses	30.5	30.5	29.6	29.7	—	27.4	27.3	26.6	26.8	—
237,8	Fur goods and miscellaneous apparel	66.2	64.4	70.5	67.6	—	56.9	55.0	60.2	57.3	—
239	Miscellaneous fabricated textile products	178.9	174.7	192.1	192.1	190.4	148.0	144.1	159.8	160.2	158.6
2391,2	Housefurnishings	75.9	73.9	84.1	84.4	—	63.8	62.0	71.1	71.4	—
26	PAPER AND ALLIED PRODUCTS	683.9	680.3	706.1	708.0	703.9	516.5	512.5	529.9	533.1	529.0
261,2,6	Paper and pulp mills	199.9	198.8	201.2	202.3	200.5	152.8	152.0	163.9	154.2	152.5
263	Paperboard mills	71.0	71.8	71.0	70.8	70.5	56.0	56.7	56.1	56.1	55.8
264	Miscellaneous converted paper products	200.8	199.7	212.3	213.2	212.6	143.0	141.3	149.3	151.5	151.0
2643	Bags, except textile bags	44.2	44.0	46.7	47.5	—	35.3	35.1	37.2	37.8	—
265	Paperboard containers and boxes	212.2	210.0	221.6	221.7	220.3	164.7	162.5	171.6	171.3	169.7
2651,2	Folding and setup paperboard boxes	60.4	58.3	60.4	60.6	—	49.2	47.2	48.4	48.6	—
2653	Corrugated and solid fiber boxes	103.5	103.0	108.2	108.2	—	76.4	75.6	79.8	79.6	—
2654	Sanitary food containers	30.3	30.6	35.0	35.0	—	24.9	25.3	29.2	29.1	—
27	PRINTING AND PUBLISHING	1,097.3	1,089.3	1,124.2	1,132.9	1,126.3	638.1	629.9	645.0	650.0	643.2
271	Newspapers	390.9	388.4	396.5	398.4	397.3	169.0	166.8	163.9	163.9	163.2
272	Periodicals	71.0	71.6	74.1	74.3	—	19.7	19.5	20.5	20.8	—
273	Books	88.8	88.4	88.3	89.9	—	47.1	46.7	45.6	46.7	—
275	Commercial printing	363.8	359.3	373.5	377.9	371.6	272.6	269.4	279.2	282.7	276.7
2751	Commercial printing, except lithographic	207.0	204.3	209.7	211.2	—	157.1	155.7	158.8	159.8	—
2752	Commercial printing, lithographic	146.6	144.8	153.0	155.9	—	107.7	105.8	111.8	114.3	—
278	Blankbooks and bookbinding	49.6	49.6	52.9	53.0	53.0	40.5	39.9	43.5	43.0	42.9
274,6,7,8	Other publishing and printing ind	133.2	132.0	138.9	139.4	139.3	89.2	87.6	92.3	92.9	92.6
28	CHEMICALS AND ALLIED PRODUCTS	1,038.5	1,036.2	1,061.0	1,061.7	1,060.5	589.6	590.1	608.4	609.6	609.0
281	Industrial chemicals	339.9	340.7	349.8	350.7	347.3	180.9	181.5	190.0	190.5	188.7
2812	Alkalies and chlorine	21.2	20.6	21.5	21.3	—	15.7	15.0	15.7	15.5	—
281B	Industrial organic chemicals, nec	140.8	140.9	143.7	143.7	—	63.5	64.2	68.5	68.8	—
2819	Industrial inorganic chemicals, nec	111.8	112.1	116.6	117.9	—	59.9	60.0	63.1	63.9	—
282	Plastics materials and synthetics	202.4	201.9	201.1	201.8	(*)	134.6	134.8	135.6	136.5	(*)
2821	Plastics materials and resins	89.2	88.7	89.8	90.1	—	55.8	55.6	56.2	56.6	—
2823,4	Synthetic fibers	100.1	100.0	97.6	98.0	—	68.9	69.2	69.1	69.6	—
283	Drugs	170.8	171.1	176.9	176.7	177.4	85.2	85.9	87.3	86.7	86.4
2834	Pharmaceutical preparations	136.4	136.8	141.6	141.4	—	65.6	66.5	67.5	66.9	—
284	Soap, cleaners, and toilet goods	124.7	121.7	126.0	125.0	125.1	74.0	72.7	76.5	75.6	75.9
2841	Soap and other detergents	40.6	40.1	41.2	40.2	—	27.2	26.6	27.0	26.3	—
2844	Toilet preparations	50.3	47.8	50.4	50.2	—	28.9	28.2	31.1	30.7	—
285	Paints and allied products	65.6	65.5	69.9	69.8	69.7	34.2	34.2	36.3	36.6	36.5
287	Agricultural chemicals	54.9	55.9	56.3	56.6	57.4	33.6	34.6	34.2	35.2	35.8
2871,2	Fertilizers, complete and mixing only	32.4	32.9	33.4	33.6	—	22.0	22.5	21.7	22.4	—
286,9	Other chemical products	80.2	79.4	81.0	81.1	80.1	47.1	46.4	48.5	48.5	47.9
2892	Explosives	13.5	13.5	13.8	13.8	—	8.5	8.5	9.5	9.5	—
29	PETROLEUM AND COAL PRODUCTS	202.5	200.3	212.5	211.1	208.2	130.8	128.0	140.8	139.3	137.0
291	Petroleum refining	157.1	156.3	161.6	161.7	160.3	97.9	96.3	102.9	103.0	101.8
295,9	Other petroleum and coal products	45.4	44.1	50.9	49.4	47.9	32.9	31.7	37.9	36.3	35.2

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
NONDURABLE GOODS—Continued											
30	RUBBER AND PLASTICS PRODUCTS, NEC...	650.0	651.7	691.5	691.3	688.6	507.5	509.9	541.7	541.6	538.4
301	Tires and inner tubes	119.8	120.3	121.3	120.4	119.7	87.7	89.0	89.1	88.1	87.4
302,3,6	Other rubber products	172.4	171.9	175.0	175.7	173.3	135.6	135.3	137.4	138.3	136.0
302	Rubber footwear	22.3	21.9	20.1	20.5	—	19.0	18.7	17.3	17.8	—
307	Miscellaneous plastics products	357.8	359.5	395.2	395.2	395.6	284.2	285.6	315.2	315.2	315.0
31	LEATHER AND LEATHER PRODUCTS	263.3	260.6	266.1	262.8	255.3	223.8	222.4	227.2	223.5	216.9
311	Leather tanning and finishing	22.9	22.9	23.2	23.6	23.2	19.4	19.4	19.9	20.1	19.7
314	Footwear, except rubber	163.0	162.9	163.4	163.5	159.6	141.0	141.6	142.5	142.5	139.0
312,3,5-7,9	Other leather products	77.4	74.8	79.5	75.7	72.5	63.4	61.4	64.8	60.9	58.2
316	Luggage	17.4	16.3	18.4	17.7	—	13.5	12.7	14.2	13.5	—
317	Handbags and personal leather goods	35.8	35.0	36.3	33.4	—	29.6	29.2	29.9	26.9	—
—	TRANSPORTATION AND PUBLIC UTILITIES	4,553	4,499	4,657	4,655	4,582	3,896	3,839	3,942	3,940	3,867
40	RAILROAD TRANSPORTATION	528.6	522.8	534.7	522.1	—	—	—	—	—	—
4011	Class I railroads ²	491.3	485.9	497.9	486.0	—	—	—	—	—	—
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	276.6	277.9	262.9	262.8	—	—	—	—	—	—
411	Local and suburban transportation	67.7	71.1	68.6	68.9	—	61.9	65.6	62.8	62.5	—
412	Taxicabs	76.3	76.6	69.4	69.8	—	—	—	—	—	—
413	Intercity highway transportation	40.1	38.8	37.3	37.5	—	36.5	35.9	33.7	34.1	—
42	TRUCKING AND WAREHOUSING	1,117.8	1,076.8	1,164.3	1,170.0	—	993.5	949.7	1,032.2	1,037.9	—
421,3	Trucking and trucking terminals	1,022.6	985.1	1,065.3	1,072.8	—	910.9	871.0	946.3	954.0	—
422	Public warehousing	95.2	91.7	99.0	97.2	—	82.6	78.7	85.9	83.9	—
45	TRANSPORTATION BY AIR	374.0	372.2	383.9	384.2	—	—	—	—	—	—
451,2	Air transportation	338.1	336.7	346.3	346.3	—	—	—	—	—	—
46	PIPELINE TRANSPORTATION	16.5	16.4	16.2	16.2	—	12.0	12.0	11.8	11.9	—
44,47	OTHER TRANSPORTATION AND SERVICES	350.5	346.2	366.6	369.2	—	—	—	—	—	—
44	WATER TRANSPORTATION	200.9	196.2	203.4	204.1	—	—	—	—	—	—
47	TRANSPORTATION SERVICES	149.6	150.0	163.2	165.1	—	—	—	—	—	—
48	COMMUNICATION	1,153.3	1,151.6	1,181.5	1,181.9	—	886.4	884.3	896.7	896.6	—
481	Telephone communication	940.2	939.8	961.3	961.7	—	714.2	712.9	719.9	719.2	—
482	Telegraph communication ³	17.0	17.6	18.2	18.4	—	13.3	13.9	14.5	14.7	—
483	Radio and television broadcasting	160.5	159.2	165.0	164.6	—	127.8	127.1	130.0	130.2	—
49	ELECTRIC, GAS, AND SANITARY SERVICES	735.2	735.4	747.1	748.5	—	608.6	608.4	613.9	615.1	—
491	Electric companies and systems	314.7	314.8	322.1	322.8	—	258.7	259.0	263.2	264.2	—
492	Gas companies and systems	157.5	157.3	157.4	157.3	—	129.2	129.0	129.0	129.0	—
493	Combination companies and systems	194.7	194.6	195.8	196.1	—	161.9	161.6	160.2	160.3	—
494-7	Water, steam, and sanitary systems	68.3	68.7	71.8	72.3	—	58.8	58.8	61.5	61.6	—
—	WHOLESALE AND RETAIL TRADE	18,559	17,791	18,796	19,250	18,474	16,461	15,691	16,575	17,017	16,244
50	WHOLESALE TRADE	4,326	4,297	4,469	4,480	4,456	3,583	3,547	3,688	3,693	3,668
501	Motor vehicles and automotive equipment	385.2	386.3	399.5	400.7	—	313.8	313.8	327.2	328.2	—
502	Drugs, chemicals, and allied products	242.4	242.0	251.5	251.0	—	192.5	190.8	199.7	199.6	—
503	Dry goods and apparel	156.6	156.9	161.5	159.3	—	121.7	120.9	125.0	122.7	—
504	Groceries and related products	631.9	616.6	632.9	633.2	—	549.9	533.1	548.2	548.5	—
506	Electrical goods	323.5	324.6	340.0	341.4	—	271.6	272.1	281.2	281.4	—
507	Hardware; plumbing and heating equipment	189.3	188.2	197.4	197.9	—	157.4	155.8	164.6	165.0	—
508	Machinery, equipment, and supplies	896.1	899.8	947.8	951.8	—	741.3	744.2	784.6	787.0	—
509	Miscellaneous wholesalers	1,385.3	1,370.3	1,419.0	1,425.4	—	1,139.0	1,122.4	1,159.0	1,163.6	—
52-59	RETAIL TRADE	14,233	13,494	14,327	14,770	14,018	12,878	12,144	12,887	13,324	12,576
53	Retail General Merchandise	2,898.6	2,537.6	2,742.2	2,976.4	—	2,699.6	2,337.3	2,536.8	2,771.1	—
531	Department stores	1,990.2	1,745.3	1,904.9	2,079.3	—	1,864.1	1,619.3	1,777.7	1,953.1	—
532	Mail order houses	136.1	111.5	132.9	136.4	—	129.3	105.4	127.8	131.3	—
533	Variety stores	365.3	310.6	312.7	340.8	—	337.2	290.1	289.5	316.6	—
54	FOOD STORES	2,136.8	2,097.5	2,156.6	2,187.3	—	1,975.5	1,937.5	1,992.2	2,021.7	—
541-3	Grocery, meat, and vegetable stores	1,941.1	1,910.7	1,956.0	1,981.6	—	1,794.3	1,765.2	1,808.0	1,832.4	—

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
—	WHOLESALE AND RETAIL TRADE—Continued										
56	APPAREL AND ACCESSORY STORES	910.9	822.7	852.0	938.1	—	805.2	715.8	739.5	824.7	—
561	Men's and boys' clothing and furnishings	165.1	147.4	148.1	168.7	—	146.6	128.6	127.8	148.0	—
562	Women's ready-to-wear stores	334.2	299.3	308.3	335.2	—	297.2	261.9	269.0	296.6	—
565	Family clothing stores	151.0	130.0	136.4	155.8	—	137.7	116.7	122.0	141.2	—
566	Shoe stores	177.6	170.0	179.2	191.1	—	150.1	142.0	150.1	161.4	—
57	FURNITURE AND HOME FURNISHINGS STORES	554.8	541.9	567.9	580.4	—	470.8	457.3	479.0	490.5	—
571	Furniture and home furnishings	329.8	324.6	337.4	341.3	—	281.4	276.5	286.0	289.3	—
58	EATING AND DRINKING PLACES	3,677.3	3,559.7	3,919.4	3,909.7	—	3,426.2	3,320.0	3,630.4	3,621.3	—
52,55,59	OTHER RETAIL TRADE	4,054.4	3,934.2	4,089.0	4,178.5	—	3,501.1	3,375.6	3,508.6	3,594.6	—
52	Building materials and farm equipment	634.5	616.7	670.4	669.3	—	543.0	523.8	570.8	569.5	—
55	Automotive dealers and service stations	1,757.1	1,746.5	1,787.4	1,784.4	—	—	—	—	—	—
551,2	Motor vehicle dealers	795.7	797.4	820.6	820.3	—	663.8	644.1	683.1	682.0	—
551,9	Other automotive and accessory dealers	332.2	323.8	344.1	342.9	—	279.4	270.7	290.7	289.4	—
554	Gasoline service stations	629.2	625.3	622.7	621.2	—	—	—	—	—	—
59	Miscellaneous retail stores	1,662.8	1,571.0	1,631.2	1,724.8	—	—	—	—	—	—
591	Drug stores and proprietary stores	500.5	488.5	494.9	523.2	—	445.9	434.3	438.8	466.7	—
594	Book and stationery stores	86.2	84.8	82.4	83.7	—	73.5	72.2	70.0	71.5	—
596	Farm and garden supply stores	140.4	136.0	142.2	144.4	—	—	—	—	—	—
598	Fuel and ice dealers	107.6	109.8	101.7	105.7	—	92.3	94.1	86.8	90.9	—
—	FINANCE, INSURANCE, AND REAL ESTATE⁴	4,385	4,379	4,583	4,595	4,577	3,347	3,327	3,486	3,492	3,464
60	Banking	1,316.0	1,317.5	1,358.5	1,365.7	—	1,036.3	1,030.9	1,057.6	1,063.1	—
61	Credit agencies other than banks	478.0	479.7	514.4	518.4	—	368.6	368.1	396.4	399.6	—
612	Savings and loan associations	194.7	196.0	214.5	216.7	—	156.5	156.7	170.7	172.5	—
614	Personal credit institutions	198.8	198.6	208.2	209.5	—	—	—	—	—	—
62	Security, commodity brokers and services	177.4	177.2	179.8	180.9	—	144.6	144.3	146.3	147.7	—
63	Insurance carriers	1,127.2	1,127.5	1,161.6	1,163.4	—	762.7	764.7	786.6	785.9	—
631	Life insurance	517.7	517.4	519.3	520.1	—	296.3	296.3	294.1	294.3	—
632	Accident and health insurance	123.2	122.9	123.6	123.0	—	100.5	101.2	100.1	99.3	—
633	Fire, marine, and casualty insurance	422.9	423.8	449.3	450.7	—	313.5	314.7	336.0	335.5	—
64	Insurance agents, brokers, and service	349.5	350.4	376.9	378.5	—	—	—	—	—	—
65	Real estate	822.2	813.2	872.3	869.3	—	—	—	—	—	—
655	Subdividers and developers	109.6	106.9	117.1	113.4	—	—	—	—	—	—
656	Operative builders	58.1	55.5	66.6	66.7	—	—	—	—	—	—
66,67	Other finance, insurance, and real estate	114.9	113.3	119.1	119.2	—	—	—	—	—	—
—	SERVICES	14,861	14,740	15,608	15,581	15,430	13,377	13,248	13,934	13,958	13,802
70	Hotels and other lodging places	1,025.9	1,017.7	1,024.1	995.7	—	—	—	—	—	—
701	Hotels, tourist courts, and motels	840.2	808.4	842.2	833.5	—	775.2	746.3	776.0	766.4	—
72	Personal services	814.0	801.0	807.2	804.5	—	—	—	—	—	—
721	Laundries and dry cleaning plants	348.7	346.3	349.4	347.7	—	312.6	310.2	312.7	310.6	—
722	Photographic studios	44.9	39.3	43.5	41.6	—	40.1	34.9	39.6	37.5	—
73	Miscellaneous business services	2,189.5	2,173.6	2,327.8	2,343.3	—	—	—	—	—	—
731	Advertising	128.8	128.5	137.6	138.5	—	—	—	—	—	—
732	Credit reporting and collection	83.8	84.4	89.1	89.6	—	—	—	—	—	—
734	Services to buildings	418.6	420.3	439.9	443.6	—	—	—	—	—	—
76	Miscellaneous repair services	225.1	223.0	236.0	238.3	—	—	—	—	—	—
78	Motion pictures	190.2	191.8	204.5	202.2	—	—	—	—	—	—
781	Motion picture filming and distributing	63.0	61.4	72.6	72.4	—	49.6	49.0	60.8	60.1	—
782,3	Motion picture theaters and services	127.2	130.4	131.9	129.8	—	—	—	—	—	—
80	Medical and other health services	4,563.3	4,570.3	4,850.3	4,867.5	—	—	—	—	—	—
806	Hospitals	2,436.0	2,440.9	2,540.1	2,543.9	—	2,221.9	2,227.4	2,272.4	2,276.8	—
81	Legal services	384.9	383.5	420.2	423.0	—	—	—	—	—	—
82	Educational services	1,334.3	1,291.0	1,429.2	1,408.2	—	—	—	—	—	—
821	Elementary and secondary schools	428.8	431.5	464.0	464.3	—	—	—	—	—	—
822	Colleges and universities	724.4	680.2	761.4	741.7	—	—	—	—	—	—
89	Miscellaneous services	931.1	940.5	999.0	1,005.1	—	—	—	—	—	—
891	Engineering and architectural services	423.0	424.5	456.1	458.8	—	—	—	—	—	—
892	Nonprofit research agencies	156.7	156.8	167.8	168.9	—	—	—	—	—	—

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^p	Jan. 1978 ^p	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^p	Jan. 1978 ^p
—	GOVERNMENT	15,261	15,059	15,608	15,608	15,425	—	—	—	—	—
91	FEDERAL GOVERNMENT ⁵	2,725	2,697	2,716	2,724	2,701	—	—	—	—	—
	Executive	2,674.5	2,645.8	2,664.3	2,673.1	—	—	—	—	—	—
	Department of Defense	919.6	918.4	909.8	907.7	—	—	—	—	—	—
	Postal Service	685.7	650.0	650.2	668.2	—	—	—	—	—	—
	Other agencies	1,069.2	1,077.4	1,104.3	1,097.2	—	—	—	—	—	—
	Legislative	38.4	39.2	39.1	38.8	—	—	—	—	—	—
	Judicial	11.9	12.0	12.5	12.5	—	—	—	—	—	—
92,93	STATE AND LOCAL GOVERNMENT	12,536	12,362	12,892	12,884	12,724	—	—	—	—	—
92	State government	3,368.4	3,292.8	3,414.4	3,388.7	—	—	—	—	—	—
	State education	1,480.7	1,401.5	1,460.9	1,435.3	—	—	—	—	—	—
	Other State government	1,887.7	1,891.3	1,953.5	1,953.4	—	—	—	—	—	—
93	Local government	9,168.0	9,069.1	9,477.5	9,495.2	—	—	—	—	—	—
	Local education	5,253.7	5,178.4	5,426.3	5,432.6	—	—	—	—	—	—
	Other local government	3,914.3	3,890.7	4,051.2	4,062.6	—	—	—	—	—	—

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
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls, by industry

SIC Code	Industry	October 1976		July 1977		October 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
-	TOTAL	32,031	40	32,394	39	33,758	40
-	PRIVATE SECTOR	25,285	39	26,011	38	26,574	39
-	MINING	60	7	67	8	68	8
10	METAL MINING	5.2	5	5.7	6	5.6	7
11,12	COAL MINING	5.2	2	5.5	3	6.1	3
13	OIL AND GAS EXTRACTION	42.3	11	47.6	11	48.1	12
131,2	Crude petroleum and natural gas fields	26.6	16	31.5	18	31.7	18
138	Oil and gas field services	15.7	8	16.1	7	16.4	7
14	NONMETALLIC MINERALS, EXCEPT FUELS	6.9	6	7.7	6	7.8	6
142	Crushed and broken stone	2.2	5	2.4	5	2.5	6
144	Sand and gravel	2.1	6	2.4	6	2.5	6
-	CONTRACT CONSTRUCTION	249	7	273	7	278	7
15	GENERAL BUILDING CONTRACTORS	78.4	7	85.4	7	88.0	7
16	HEAVY CONSTRUCTION CONTRACTORS	42.9	5	48.2	5	48.6	6
161	Highway and street construction	14.2	4	19.6	5	19.8	5
162	Heavy construction, nec	28.7	6	28.6	6	28.8	6
17	SPECIAL TRADE CONTRACTORS	127.2	7	139.1	7	141.8	7
171	Plumbing, heating, air conditioning	36.3	8	39.5	8	40.1	8
172	Painting, paper hanging, decorating	9.1	6	10.1	6	10.4	7
173	Electrical work	20.6	6	23.2	7	23.7	7
174	Masonry, stonework, and plastering	9.8	5	11.3	5	11.5	5
176	Roofing and sheet metal work	9.1	7	9.9	7	10.6	7
-	MANUFACTURING	5,726	30	5,762	29	5,977	30
19,24,25,32-39	DURABLE GOODS	2,522	23	2,595	23	2,693	23
20-23,26-31	NONDURABLE GOODS	3,204	40	3,167	39	3,284	40
	DURABLE GOODS						
19	ORDNANCE AND ACCESSORIES	35.9	23	34.6	22	33.8	23
192	Ammunition, except for small arms	24.1	24	22.9	23	21.6	23
1925	Complete guided missiles	18.0	21	16.6	21	15.4	20
1929	Ammunition, except for small arms, nec	6.1	34	6.3	34	6.2	34
24	LUMBER AND WOOD PRODUCTS	80.1	13	85.0	13	87.9	13
241	Logging camps, and logging contractors	4.2	5	3.8	5	3.7	5
242	Sawmills and planing mills	16.4	8	18.4	8	18.6	8
2421	Sawmills and planing mills, general	11.9	7	13.6	7	13.4	7
243	Millwork, plywood and related products	30.6	15	33.9	14	36.1	15
2431	Millwork	17.1	18	18.7	18	20.5	19
2432	Veneer and plywood	10.0	13	10.8	14	10.9	14
244	Wooden containers	4.3	20	4.8	22	4.5	21
2441,2	Wooden boxes, shooks, and crates	3.4	20	3.8	21	3.6	21
249	Miscellaneous wood products	24.6	25	24.1	23	25.0	24
25	FURNITURE AND FIXTURES	140.8	28	140.4	28	150.9	29
251	Household furniture	112.8	31	111.4	31	120.8	32
2511	Wood household furniture	56.0	30	54.7	29	60.6	31
2512	Upholstered household furniture	36.1	34	36.2	35	38.7	35
2515	Mattresses and bedsprings	9.5	28	9.1	28	9.5	28
252	Office furniture	7.4	19	8.8	21	8.9	21
254	Partitions and fixtures	8.2	15	8.1	15	8.9	16
253,9	Other furniture and fixtures	12.4	28	12.1	28	12.3	27
32	STONE, CLAY, AND GLASS PRODUCTS	115.7	18	118.8	18	119.5	18
321	Flat glass	1.5	9	1.6	9	1.6	10
322	Glass and glassware, pressed or blown	46.4	34	47.4	34	46.6	35
3221	Glass containers	28.6	36	29.2	36	27.9	36
3229	Pressed and blown glass nec	17.8	32	18.2	32	18.7	32
324	Cement, hydraulic	1.3	4	1.4	4	1.4	5
325	Structural clay products	5.9	12	6.3	12	6.3	12
3251	Brick and structural clay tile	1.2	5	1.4	6	1.4	6
326	Pottery and related products	15.1	34	13.7	33	14.2	34
327	Concrete, gypsum, and plaster products	12.2	6	13.8	6	13.9	7
328,9	Other stone and nonmetallic mineral products	22.5	17	23.9	17	25.0	18
3291	Abrasive products	5.4	22	5.4	22	5.7	23

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

SIC Code	Industry	October 1976		July 1977		October 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
	DURABLE GOODS—Continued						
33	PRIMARY METAL INDUSTRIES	104.3	9	110.6	9	110.7	9
331	Blast furnace and basic steel products	30.4	6	33.5	6	33.1	6
3312	Blast furnaces and steel mills	24.2	5	27.1	6	26.6	6
332	Iron and steel foundries	13.5	6	15.6	7	15.7	7
3321	Gray iron foundries	6.9	5	8.5	6	8.4	6
3322	Malleable iron foundries	1.3	6	1.4	7	1.4	6
3323	Steel foundries	5.3	9	5.7	10	5.9	10
333,4	Nonferrous metals	4.7	6	5.0	7	5.3	6
3334	Primary aluminum	1.4	4	1.6	4	1.5	4
335	Nonferrous rolling and drawing	37.1	19	36.9	19	36.1	18
3351	Copper rolling and drawing	3.2	9	3.7	10	3.3	10
3352	Aluminum rolling and drawing	7.4	12	8.2	13	8.3	13
3357	Nonferrous wire drawing and insulating	22.0	28	21.6	28	21.4	27
336	Nonferrous foundries	21.4	15	21.8	16	13.6	16
3361	Aluminum castings	5.9	13	6.3	14	6.7	14
3362,9	Other nonferrous castings	6.5	18	6.5	18	6.9	18
339	Miscellaneous primary metal products	6.2	9	6.8	9	6.9	9
3391	Iron and steel forgings	3.3	7	3.3	7	3.3	7
34	FABRICATED METAL PRODUCTS	282.9	20	289.0	20	303.2	20
341	Metal cans	9.9	16	11.0	18	10.5	17
342	Cutlery, hand tools, and hardware	58.0	34	58.4	34	62.1	34
3421,3,5	Cutlery and hand tools, including saws	21.8	30	22.1	32	23.0	32
3429	Hardware, nec	36.2	36	36.3	35	39.1	36
343	Plumbing and heating, except electric	13.6	19	15.0	20	16.3	21
3431,2	Sanitary ware and plumbers' brass goods	6.6	21	7.5	22	7.7	23
3433	Heating equipment, except electric	7.0	18	7.5	19	8.6	20
344	Fabricated structural metal products	61.7	14	64.3	14	67.5	14
3441	Fabricated structural steel	6.6	7	6.7	7	6.8	7
3442	Metal doors, sash, and trim	23.2	32	23.2	29	25.0	29
3443	Fabricated plate work (boiler shops)	13.0	9	13.5	10	13.9	10
3444	Sheet metal work	12.4	14	13.1	14	13.7	14
3446,9	Architectural and miscellaneous metal work	6.5	11	7.8	13	8.1	13
345	Screw machine products, bolts, etc.	21.4	21	22.1	21	23.2	22
3451	Screw machine products	11.5	24	11.8	23	12.6	24
3452	Bolts, nuts, rivets, and washers	9.9	19	10.3	19	10.6	19
346	Metal stampings	49.7	22	47.5	21	50.3	21
347	Metal services, n e c	20.8	22	20.5	22	22.0	23
348	Misc. fabricated wire products	15.3	26	15.2	25	15.9	26
349	Misc. fabricated metal products	32.5	20	35.0	20	35.4	20
3494,8	Valves, pipe, and pipe fittings	20.1	19	22.3	19	22.3	19
35	MACHINERY, EXCEPT ELECTRICAL	350.6	17	377.5	17	390.5	18
351	Engines and turbines	18.4	16	17.4	15	18.8	16
3511	Steam engines and turbines	5.3	13	5.5	13	5.5	13
3519	Internal combustion engines, nec	13.1	18	11.9	17	13.3	18
352	Farm machinery	15.4	13	18.4	13	18.5	13
353	Construction and related machinery	35.2	11	36.1	10	36.1	10
3531,2	Construction and mining machinery	16.2	9	15.8	9	15.4	8
3533	Oil field machinery	8.0	11	8.2	11	8.4	11
3536,6	Conveyors, hoists, cranes, monorails	5.5	11	5.8	12	5.7	11
3537	Industrial trucks and tractors	3.3	11	4.1	12	4.5	13
354	Metal working machinery	44.2	14	46.7	14	48.6	15
3541	Machine tools, metal cutting types	6.5	11	6.8	11	7.1	11
3544	Special dies, tools, jigs and fixtures	11.9	10	13.1	10	13.3	10
3545	Machine tool accessories	10.7	19	11.1	19	11.6	20
3542,8	Miscellaneous metal working machinery	15.1	20	15.7	21	16.6	22
355	Special industry machinery	23.8	13	24.6	14	25.6	14
3551	Food products machinery	4.8	12	5.2	12	5.3	12
3552	Textile machinery	5.4	17	5.5	19	6.0	20
3555	Printing trades machinery	3.6	14	4.0	15	4.2	15
356	General industrial machinery	51.5	18	54.2	18	55.1	18
3561	Pumps and compressors	12.5	15	13.7	16	13.7	16
3562	Ball and roller bearings	12.9	24	13.2	23	13.4	23
3564	Blowers and fans	6.7	19	7.1	20	7.5	21
3566	Power transmission equipment	7.1	16	7.7	16	7.8	16
357	Office and computing machines	89.1	30	101.2	31	105.7	32
3573	Electronic computing equipment	66.3	29	76.1	30	80.4	31
358	Service industry machines	31.1	19	33.0	19	34.1	19
3585	Refrigeration machinery	20.5	18	22.0	18	22.4	18
359	Miscellaneous machinery, except electrical	41.9	16	45.9	17	48.0	17

**ESTABLISHMENT DATA.
WOMEN EMPLOYEES**

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

SIC Code	Industry	October 1976		July 1977		October 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
DURABLE GOODS - CONTINUED							
36	ELECTRICAL EQUIPMENT AND SUPPLIES	777.6	42	801.1	41	832.2	42
361	Electrical test and distributing equipment	71.7	37	77.8	38	78.7	37
3611	Electric measuring instruments	32.0	45	35.0	44	35.2	44
3612	Transformers	13.7	30	16.1	32	15.9	31
3613	Switchgear and switchboard apparatus	26.0	34	26.7	34	27.6	35
362	Electrical industrial apparatus	79.0	37	85.0	38	86.3	38
3621	Motors and generators	38.8	37	40.7	38	41.7	38
3622	Industrial controls	29.6	43	31.9	45	32.4	44
363	Household appliances	52.0	32	59.8	33	63.9	35
3632	Household refrigerators and freezers	5.5	18	9.9	25	9.2	25
3633	Household laundry equipment	5.1	21	6.2	22	5.5	21
3634	Electric housewares and fans	27.5	53	28.0	53	31.7	54
364	Electric lighting and wiring equipment	90.2	45	92.7	45	95.3	45
3641	Electric lamps	24.5	65	24.2	64	24.5	64
3642	Lighting fixtures	24.0	37	23.3	36	25.3	37
3643,4	Wiring devices	41.7	43	45.2	44	45.5	44
365	Radio and TV receiving equipment	75.3	55	68.1	52	74.8	53
366	Communication equipment	154.2	36	158.2	36	164.8	37
3661	Telephone and telegraph apparatus	62.6	46	67.9	47	70.7	47
3662	Radio and TV communication equipment	91.6	32	90.3	31	94.1	32
367	Electronic components and accessories	206.0	54	206.2	53	213.5	53
3671-3	Electron tubes	16.1	38	16.6	38	16.4	38
3674,9	Other electronic components	189.9	56	189.6	55	197.1	55
369	Miscellaneous electrical equipment and supplies	49.2	33	53.3	34	54.9	34
3694	Engine electrical equipment	27.1	36	28.1	35	28.4	34
37	TRANSPORTATION EQUIPMENT	225.1	13	241.7	13	248.4	14
371	Motor vehicles and equipment	99.5	12	107.7	12	118.3	13
3711	Motor vehicles	34.3	10	37.4	10	42.0	11
3712	Passenger car bodies	5.4	11	4.2	11	5.9	13
3713	Truck and bus bodies	4.2	11	4.6	11	5.1	11
3714	Motor vehicle parts and accessories	54.1	14	59.9	15	63.5	15
3715	Truck trailers	1.5	6	1.6	6	1.8	7
372	Aircraft and parts	75.3	16	79.4	16	74.6	16
3721	Aircraft	42.3	16	44.1	17	38.8	17
3722	Aircraft engines and engine parts	18.1	14	19.4	15	19.8	15
3723,9	Other aircraft parts and equipment	14.9	17	15.9	17	16.0	17
373	Ship and boat building and repairing	20.5	9	23.5	10	23.3	10
3731	Ship building and repairing	13.0	8	15.4	9	15.2	8
3732	Boat building and repairing	7.5	16	8.1	16	8.1	17
374	Railroad equipment	4.8	11	4.8	10	3.8	9
375,9	Other transportation equipment	25.0	17	26.3	17	28.4	18
38	INSTRUMENTS AND RELATED PRODUCTS	205.3	40	211.3	40	216.0	41
381	Engineering and scientific instruments	16.8	29	16.1	28	17.0	28
382	Mechanical measuring and control devices	47.7	40	49.0	40	50.2	40
3821	Mechanical measuring devices	27.3	35	28.4	35	29.5	36
3822	Automatic temperature controls	20.4	49	20.6	50	20.7	49
383,5	Optical and ophthalmic goods	29.3	45	31.9	46	33.4	47
385	Ophthalmic goods	22.0	52	23.5	52	24.6	54
384	Medical instruments and supplies	56.6	51	59.8	52	60.8	52
386	Photographic equipment and supplies	35.3	27	35.6	27	35.2	27
387	Watches, clocks, and watchcases	19.6	64	18.9	64	19.4	65
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	204.0	47	185.3	45	199.5	46
391	Jewelry, silverware, and plated ware	24.7	44	22.2	43	25.5	44
394	Toys and sporting goods	71.1	54	61.2	52	65.7	54
3941-3	Games, toys, dolls, and play vehicles	43.7	57	35.7	56	39.6	58
3949	Sporting and athletic goods, n e c	27.4	49	25.5	47	26.1	48
395	Pens, pencils, office and art supplies	19.0	57	18.7	56	19.8	57
396	Costume jewelry and notions	28.6	54	25.1	54	28.4	56
393,9	Other manufacturing industries	60.6	38	58.1	37	60.1	37
393	Musical instruments and parts	9.9	41	9.3	42	10.4	44
NONDURABLE GOODS							
20	FOOD AND KINDRED PRODUCTS	505.0	28	486.6	28	503.3	29
201	Meat products	109.7	30	112.3	31	114.0	31
2011	Meat packing plants	26.3	15	25.8	15	26.3	15
2013	Sausages and other prepared meats	18.9	28	19.5	28	20.0	29
2015	Poultry dressing plants	64.5	54	67.0	53	67.7	53
202	Dairy products	37.2	19	38.9	20	37.8	20
2024	Ice cream and frozen desserts	5.4	25	6.3	26	5.5	25

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

SIC Code	Industry	October 1976		July 1977		October 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
NONDURABLE GOODS — CONTINUED							
FOOD AND KINDRED PRODUCTS — Continued							
2026	Fluid milk	19.8	16	20.7	16	20.3	16
203	Canned, cured, and frozen foods	151.2	45	132.1	42	135.1	44
2031,6	Canned, cured, and frozen sea foods	26.9	58	26.6	57	25.2	58
2032,3	Canned food, except sea foods	62.9	40	57.6	36	56.5	38
2037	Frozen fruits and vegetables	39.2	51	27.7	47	32.4	50
204	Grain mill products	25.6	17	26.2	18	26.9	18
2041	Flour and other grain mill products	4.0	15	4.5	16	4.8	17
2042	Prepared feeds for animals and fowls	12.4	16	12.1	16	12.4	17
205	Bakery products	62.4	26	62.1	26	64.5	27
2051	Bread, cake, and related products	42.9	21	42.6	21	44.8	22
2052	Cookies and crackers	19.5	46	19.5	50	19.7	50
206	Sugar	5.7	13	3.2	12	6.2	16
207	Confectionery and related products	38.4	47	33.9	45	39.0	47
2071	Confectionery products	30.2	50	25.5	48	30.9	50
208	Beverages	34.5	15	35.4	15	37.1	16
2082	Malt liquors	4.9	10	5.6	11	5.4	11
2086	Bottled and canned soft drinks	14.7	11	15.8	11	16.0	12
209	Miscellaneous foods and kindred products	40.3	27	42.5	29	42.7	28
21	TOBACCO MANUFACTURES	34.3	41	23.4	36	29.6	39
211	Cigarettes	14.0	31	13.7	31	13.9	31
212	Cigars	7.0	69	6.1	69	6.7	70
22	TEXTILE MILL PRODUCTS	449.7	47	456.6	47	471.1	48
221	Weaving mills, cotton	73.6	42	72.3	42	72.1	43
222	Weaving mills, synthetics	48.0	39	48.8	40	48.4	40
223	Weaving and finishing mills, wool	8.5	38	8.4	38	8.4	38
224	Narrow fabric mills	15.0	59	14.0	57	15.6	58
225	Knitting mills	165.4	64	171.3	64	180.5	65
2251	Women's hosiery, except socks	29.8	77	28.3	76	29.9	77
2252	Hosiery, n e c	24.6	72	26.1	72	26.9	72
2253	Knit outerwear mills	56.9	73	57.9	72	64.1	74
2254	Knit underwear mills	27.2	69	29.3	71	29.6	71
226	Textile finishing, except wool	22.9	29	23.9	29	24.1	30
227	Floor covering mills	22.7	37	23.3	37	25.0	38
228	Yarn and thread mills	73.6	48	75.3	48	77.2	48
229	Miscellaneous textile goods	20.0	30	19.3	29	19.8	29
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,045.1	81	1,002.1	80	1,052.1	81
231	Men's and boys' suits and coats	68.5	76	65.5	78	68.9	78
232	Men's and boys' furnishings	321.3	84	309.4	83	324.7	84
2321	Men's and boys' shirts and nightwear	103.1	88	96.2	87	99.2	87
2327	Men's and boys' separate trousers	69.3	81	68.4	81	70.0	81
2328	Men's and boys' work clothing	78.2	83	76.5	81	83.5	83
233	Women's and misses' outerwear	325.5	86	309.9	85	318.7	85
2331	Women's and misses' blouses and waists	42.2	88	40.2	88	42.2	88
2335	Women's and misses' dresses	145.2	87	137.0	86	138.4	87
2337	Women's and misses' suits and coats	43.1	78	42.4	79	43.6	79
2339	Women's and misses' outerwear, n e c	95.0	86	90.3	86	94.5	85
234	Women's and children's undergarments	88.1	86	84.0	85	89.0	86
2341	Women's and children's underwear	68.0	87	65.1	87	69.6	88
2342	Corsets and allied garments	20.1	81	18.9	80	19.4	80
235	Hats, caps, and millinery	11.2	72	11.8	75	12.0	76
236	Children's outerwear	67.2	87	65.3	86	64.1	86
2361	Children's dresses and blouses	27.6	89	27.1	89	26.0	89
237,8	Fur goods and miscellaneous apparel	51.5	74	47.1	72	53.4	75
239	Miscellaneous fabricated textile products	111.8	63	109.1	62	121.3	64
2391,2	Housefurnishings	54.7	70	51.8	69	58.2	70
26	PAPER AND ALLIED PRODUCTS	144.0	21	150.7	21	154.5	22
261,2,6	Paper and pulp mills	23.3	12	25.0	12	24.5	12
263	Paperboard mills	5.3	8	5.8	8	5.6	8
264	Miscellaneous converted paper products	66.5	33	69.0	33	71.2	34
2643	Bags, except textile bags	14.5	33	14.1	32	15.5	33
265	Paperboard containers and boxes	48.9	23	50.9	23	53.2	24
2651,2	Folding and setup paperboard boxes	19.4	32	17.7	30	18.7	31
2653	Corrugated and solid fiber boxes	14.7	14	15.8	15	16.5	15
2654	Sanitary food containers	9.5	31	12.0	34	12.5	36

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

SIC Code	Industry	October 1976		July 1977		October 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
NONDURABLE GOODS — CONTINUED							
27	PRINTING AND PUBLISHING	387.4	36	402.1	36	409.3	37
271	Newspapers	126.8	33	131.0	33	131.8	33
272	Periodicals	36.4	51	38.0	53	39.3	53
273	Books	42.8	49	46.5	52	45.0	51
275	Commercial printing	106.2	29	108.0	30	113.0	30
2751	Commercial printing, ex. lithographic	61.2	30	61.3	30	64.2	31
2752	Commercial printing, lithographic	42.0	29	43.3	29	45.1	30
278	Blankbooks and bookbinding	26.0	51	26.9	51	27.7	52
274,6,7,9	Other publishing and printing ind.	49.2	37	51.7	38	52.5	38
28	CHEMICALS AND ALLIED PRODUCTS	228.7	22	240.4	22	241.3	23
281	Industrial chemicals	44.8	13	48.9	14	49.0	14
2812	Alkalies and chlorines	1.9	9	2.1	10	2.0	9
2818	Industrial organic chemicals, n e c	20.7	15	21.9	15	22.0	15
2819	Industrial inorganic chemicals, n e c	15.1	14	16.9	14	16.8	14
282	Plastics materials and synthetics	35.4	17	39.9	19	38.5	19
2821	Plastics materials and resins	8.2	9	10.8	12	10.7	12
2823,4	Synthetic fibers	26.3	26	27.9	27	26.6	27
283	Drugs	67.5	40	71.3	41	71.1	40
2834	Pharmaceutical preparations	55.7	41	59.5	43	59.6	42
284	Soap, cleaners, and toilet goods	49.4	39	47.1	38	49.0	38
2841	Soap and other detergents	8.7	21	8.6	21	8.6	21
2844	Toilet preparations	30.7	58	28.3	56	30.1	58
285	Paints and allied products	11.1	17	11.8	16	12.1	17
287	Agricultural chemicals	6.6	12	6.9	12	6.8	12
2871,2	Fertilizers, complete and mixing only	3.0	9	3.3	10	3.3	10
286,9	Other chemical products	13.9	18	14.5	18	14.8	18
2892	Explosives	2.2	16	2.3	17	2.2	16
29	PETROLEUM AND COAL PRODUCTS	20.9	10	25.0	12	24.4	11
291	Petroleum refining	15.6	10	19.3	12	18.6	12
295,9	Other petroleum and coal products	5.3	11	5.7	11	5.8	11
30	RUBBER AND PLASTICS PRODUCTS, NEC	226.9	35	228.2	34	237.2	34
301	Tires and inner tubes	11.0	9	11.3	9	11.1	9
302,3,6	Other rubber products	64.4	37	61.9	36	62.9	36
302	Rubber footwear	14.8	63	12.2	61	11.9	60
307	Miscellaneous plastics products	151.5	42	155.0	41	163.2	42
31	LEATHER AND LEATHER PRODUCTS	161.6	61	151.4	60	160.7	61
311	Leather tanning and finishing	3.4	15	3.0	14	3.3	14
314	Footwear, except rubber	107.0	66	102.3	66	106.8	66
312,3,5,7,9	Other leather products	51.2	65	46.1	62	50.6	63
316	Luggage	11.4	64	9.8	55	10.4	56
317	Handbags and personal leather goods	26.7	73	24.1	71	26.6	72
-	TRANSPORTATION AND PUBLIC UTILITIES	990	22	1,033	22	1,040	22
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	55.8	20	32.1	14	52.6	20
411	Local and suburban transportation	8.1	12	7.5	11	8.2	12
412	Taxicabs	4.9	6	5.9	8	6.3	9
413	Intercity highway transportation	4.4	11	4.8	12	4.4	12
42	TRUCKING AND WAREHOUSING	115.2	10	121.0	11	123.2	11
421,3	Trucking and trucking terminals	99.4	10	105.0	10	104.7	10
422	Public warehousing	15.8	17	16.0	18	18.5	19
45	TRANSPORTATION BY AIR	104.3	28	115.3	30	115.4	30
451,2	Air transportation	98.6	29	109.7	32	110.0	32
46	PIPE LINE TRANSPORTATION	1.5	9	1.7	10	1.5	9
44	WATER TRANSPORTATION	17.4	9	19.2	10	19.8	10
47	TRANSPORTATION SERVICES	37.0	25	49.0	30	52.3	32
48	COMMUNICATION	518.2	45	527.4	45	531.2	45
481	Telephone communication	457.2	49	467.3	49	469.6	49
483	Radio and television broadcasting	47.1	29	47.2	29	48.3	29
49	ELECTRIC, GAS, AND SANITARY SERVICES	121.0	16	127.0	17	125.7	17
491	Electric companies and systems	50.8	16	52.9	16	53.1	17
492	Gas companies and systems	30.5	19	31.5	20	30.4	20

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

SIC Code	Industry	October 1976		July 1977		October 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
	NONDURABLE GOODS - CONTINUED						
	ELECTRIC, GAS, AND SANITARY SERVICES - Cont'd						
493	Combination companies and systems	30.5	16	32.1	16	31.8	16
494-7	Water, steam, and sanitary systems	9.2	13	10.5	14	10.4	14
-	WHOLESALE AND RETAIL TRADE	7,519	42	7,611	42	7,811	42
50	WHOLESALE TRADE	1,064	25	1,075	24	1,101	25
501	Motor vehicles and automotive equipment	82.6	22	86.6	22	86.3	22
502	Drugs, chemicals, and allied products	83.9	25	84.9	34	86.6	34
503	Dry goods and apparel	77.0	49	76.4	49	79.2	49
504	Groceries and related products	145.8	23	138.7	22	137.7	22
506	Electrical goods	87.4	27	90.3	27	92.4	27
507	Hardware, plumbing and heating equipment	48.7	26	51.3	26	51.8	26
508	Machinery, equipment, and supplies	188.9	21	200.9	21	205.5	22
509	Miscellaneous wholesalers	318.2	23	321.0	23	331.0	23
52-59	RETAIL TRADE	6,455	47	6,536	47	6,710	48
53	Retail general merchandise	1,708.9	67	1,643.7	67	1,720.5	67
5317.0	Department stores	1,176.0	69	1,132.3	67	1,188.1	67
532	Mail order houses	76.8	63	62.9	60	73.0	60
533	Variety stores	224.7	71	221.6	75	227.8	76
54	Food stores	825.9	40	843.0	40	867.1	41
541-3	Grocery, meat, and vegetable stores	709.7	38	727.9	38	747.4	39
56	Apparel and accessory stores	537.6	67	525.6	66	551.1	67
561	Men's and boys' clothing and furnishings	60.9	43	60.1	43	61.3	43
562	Women's ready-to-wear stores	263.1	88	247.9	87	260.4	88
565	Family clothing stores	88.0	70	92.0	73	96.9	74
566	Shoe stores	63.5	39	64.4	39	68.8	39
57	Furniture and home furnishings stores	165.6	31	165.6	30	171.1	31
571	Furniture and home furnishings	107.0	33	108.4	33	111.3	33
58	Eating and drinking places	2,104.6	57	2,230.1	56	2,242.4	57
52,55,59	Other retail trade	1,112.7	28	1,128.4	28	1,157.5	29
52	Building materials and farm equipment	122.9	19	129.5	19	131.1	20
55	Automotive dealers and service stations	261.3	15	267.6	15	268.5	15
551,2	Motor vehicle dealers	100.1	13	104.8	13	106.3	13
553,9	Other automotive and accessory dealers	53.1	16	56.9	16	56.2	16
59	Miscellaneous retail stores	728.5	47	731.3	47	757.9	48
591	Drug stores and proprietary stores	294.9	62	292.1	61	299.5	61
594	Book and stationery stores	40.3	49	38.5	49	40.5	50
596	Farm and garden supply stores	30.6	22	30.9	21	32.8	23
598	Fuel and ice dealers	19.8	20	19.5	21	20.6	21
-	FINANCE, INSURANCE, AND REAL ESTATE	2,408	55	2,550	56	2,568	56
60	Banking	881.3	67	928.4	68	931.3	69
61	Credit agencies other than banks	288.8	61	316.5	63	323.7	63
612	Savings and loan associations	134.9	71	150.0	72	152.9	72
614	Personal credit institutions	102.2	52	111.0	54	113.9	55
62	Security, commodity brokers and services	62.7	36	65.3	36	65.3	36
63	Insurance carriers	621.3	56	652.3	56	655.0	57
631	Life insurance	243.7	47	249.2	48	248.2	48
632	Accident and health insurance	86.9	71	89.9	72	89.3	72
633	Fire, marine, and casualty insurance	250.5	60	267.5	61	271.2	61
64	Insurance agents, brokers, and service	198.4	57	213.1	58	216.6	58
65	Real estate	295.8	36	314.6	36	315.1	36
656	Subdividers and developers	27.5	24	32.7	25	30.9	26
656	Operative builders	12.4	21	14.0	21	14.2	22
66,67	Other finance, insurance, and real estate	59.3	52	59.9	52	61.3	52
-	SERVICES	8,333	56	8,715	56	8,832	57
	Hotels and other lodging places:						
701	Hotels, tourist courts, and motels	468.6	54	503.0	55	468.7	54
72	Personal services	514.0	63	504.8	63	510.1	63
721	Laundries and dry cleaning plants	217.7	62	217.7	62	216.4	62
722	Photographic studios	32.8	67	22.1	58	27.6	64
73	Miscellaneous business services	807.9	37	855.6	38	882.5	38
731	Advertising	57.9	45	62.3	46	63.9	47
732	Credit reporting and collection	57.9	70	62.2	70	62.7	70
734	Services to buildings	168.3	40	164.5	38	168.5	39
76	Miscellaneous repair services	36.4	16	41.0	18	42.8	18
78	Motion pictures	76.6	38	82.6	38	74.8	36
781	Motion picture filming and distributing	25.7	38	25.3	36	24.8	34
782,3	Motion picture theaters and services	50.9	38	57.3	38	50.0	38

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

SIC Code	Industry	October 1976		July 1977		October 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
	SERVICES — Continued						
80	Medical and other health services	3,646.3	81	3,870.8	81	3,925.6	81
806	Hospitals	1,938.2	80	2,016.9	80	2,036.6	80
81	Legal services	239.9	64	269.4	64	270.6	65
82	Educational services	684.3	51	570.7	51	743.1	53
821	Elementary and secondary schools	264.9	62	222.4	58	287.5	63
822	Colleges and universities	328.9	45	253.4	45	349.6	47
89	Miscellaneous services	259.7	28	283.1	29	292.7	30
891	Engineering and architectural services	70.8	17	83.9	18	85.7	19
892	Nonprofit research agencies	55.7	36	60.9	36	61.3	37
	GOVERNMENT	6,746	45	6,383	44	7,184	47
91	FEDERAL GOVERNMENT	801	30	887	32	844	31
92,93	STATE AND LOCAL GOVERNMENT	5,945	48	5,496	46	6,340	50
92	State government	1,484.7	44	1,401.0	44	1,514.9	45
	State education	649.7	44	520.0	44	626.5	44
	Other State government	835.0	44	881.0	45	888.4	45
93	Local government	4,460.4	49	4,094.6	47	4,825.2	52
	Local education	3,092.0	60	2,520.7	58	3,345.6	63
	Other local government	1,368.4	35	1,573.9	37	1,479.6	37

**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								Government		
		Total	Mining	Contract construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Total	Federal	State and local	
								Total	Wholesale trade	Retail trade						
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	
1977 ^p	124.7	104.1	135.6	119.9	100.6	136.0	107.7	134.4	124.5	137.9	139.8	151.8	133.3	100.3	143.6	
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	121.9	101.1	137.3	108.2	135.3	125.2	138.9	141.8	153.8	134.6	100.4	145.3	
Nov.....	126.4	105.4	140.8	123.1	101.4	137.9	108.8	136.1	125.9	139.6	142.5	154.5	134.8	100.3	145.6	
Dec.....	126.7	105.5	116.3	123.3	102.2	138.3	109.1	136.6	126.5	140.2	142.9	155.1	134.9	100.1	145.8	
1978: ^p Jan.....	125.3	103.3	115.8	110.9	101.6	137.3	107.5	135.8	126.4	139.1	141.9	152.8	135.3	99.3	146.6	

^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	1977												1978
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^p	Jan. ^p
TOTAL	80,574	80,870	81,331	81,620	81,837	82,157	82,407	82,474	82,763	82,902	83,245	83,432	83,685
GOODS-PRODUCING	23,585	23,763	24,017	24,176	24,264	24,355	24,412	24,305	24,360	24,436	24,528	24,548	24,652
MINING	817	824	841	847	845	856	833	818	856	859	863	713	720
CONTRACT CONSTRUCTION	3,549	3,661	3,759	3,830	3,853	3,888	3,913	3,893	3,892	3,911	3,950	3,956	3,949
MANUFACTURING	19,219	19,278	19,417	19,499	19,566	19,611	19,666	19,594	19,612	19,666	19,715	19,879	19,983
DURABLE GOODS	11,236	11,261	11,373	11,404	11,451	11,484	11,548	11,527	11,545	11,604	11,625	11,752	11,836
Ordnance and accessories	156	156	156	156	156	157	156	156	155	150	152	155	155
Lumber and wood products	625	627	633	635	638	638	640	642	648	653	662	665	669
Furniture and fixtures	495	498	503	506	508	510	515	508	510	517	521	528	530
Stone, clay, and glass products	633	622	643	650	653	659	659	656	658	657	667	672	677
Primary metal industries	1,185	1,180	1,200	1,208	1,215	1,218	1,204	1,202	1,211	1,208	1,206	1,205	1,214
Fabricated metal products	1,415	1,420	1,432	1,433	1,444	1,452	1,459	1,460	1,456	1,473	1,479	1,492	1,498
Machinery, except electrical	2,122	2,134	2,142	2,150	2,165	2,170	2,202	2,210	2,217	2,243	2,237	2,259	2,267
Electrical equipment and supplies	1,874	1,890	1,906	1,915	1,925	1,931	1,959	1,951	1,944	1,961	1,974	1,989	2,007
Transportation equipment	1,787	1,786	1,808	1,802	1,797	1,802	1,813	1,802	1,809	1,801	1,782	1,829	1,851
Instruments and related products	521	523	526	525	528	527	527	526	528	530	532	536	540
Miscellaneous manufacturing	423	425	424	424	422	420	414	414	409	411	413	422	428
NONDURABLE GOODS	7,983	8,017	8,044	8,095	8,115	8,127	8,118	8,067	8,067	8,062	8,090	8,127	8,147
Food and kindred products	1,723	1,727	1,732	1,741	1,733	1,736	1,728	1,710	1,711	1,696	1,703	1,713	1,717
Tobacco manufactures	73	73	69	74	72	72	68	67	67	67	66	68	67
Textile mill products	960	967	974	979	986	986	992	982	985	987	993	991	990
Apparel and other textile products	1,279	1,282	1,284	1,290	1,292	1,301	1,292	1,286	1,285	1,285	1,291	1,295	1,299
Paper and allied products	685	687	689	695	701	703	705	704	702	702	700	706	709
Printing and publishing	1,092	1,096	1,099	1,103	1,108	1,113	1,114	1,114	1,116	1,117	1,120	1,124	1,129
Chemicals and allied products	1,045	1,049	1,052	1,057	1,062	1,061	1,064	1,061	1,058	1,058	1,059	1,065	1,069
Petroleum and coal products	205	205	207	209	210	210	210	210	211	211	212	213	214
Rubber and plastics products, nec	656	666	672	681	684	680	683	671	671	673	681	689	693
Leather and leather products	265	265	266	266	267	265	258	261	262	266	265	263	260
SERVICE-PRODUCING	56,989	57,107	57,314	57,444	57,573	57,802	57,995	58,169	58,403	58,466	58,717	58,884	59,033
TRANSPORTATION AND PUBLIC UTILITIES	4,544	4,553	4,563	4,575	4,586	4,588	4,572	4,581	4,616	4,610	4,634	4,650	4,628
WHOLESALE AND RETAIL TRADE ..	17,994	18,039	18,118	18,175	18,202	18,264	18,322	18,377	18,431	18,414	18,512	18,592	18,686
WHOLESALE TRADE	4,323	4,334	4,354	4,371	4,379	4,387	4,394	4,398	4,410	4,415	4,438	4,458	4,483
RETAIL TRADE	13,671	13,705	13,764	13,804	13,823	13,877	13,928	13,979	14,021	13,999	14,074	14,134	14,203
FINANCE, INSURANCE, AND REAL ESTATE	4,419	4,431	4,453	4,463	4,481	4,494	4,506	4,524	4,545	4,572	4,597	4,609	4,619
SERVICES	15,010	15,068	15,149	15,182	15,197	15,260	15,372	15,448	15,482	15,533	15,608	15,659	15,713
Hotels and other lodging places	1,094	1,083	1,089	1,092	1,073	1,066	1,082	1,081	1,073	1,074	1,077	1,054	-
Personal services	809	808	809	809	805	806	802	803	801	799	800	800	-
Medical and other health services	4,584	4,608	4,634	4,662	4,681	4,723	4,747	4,778	4,801	4,827	4,850	4,877	-
Educational services	1,274	1,280	1,286	1,287	1,289	1,285	1,314	1,327	1,356	1,342	1,346	1,341	-
GOVERNMENT	15,022	15,016	15,031	15,049	15,107	15,196	15,223	15,239	15,329	15,337	15,366	15,374	15,387
FEDERAL	2,721	2,721	2,725	2,721	2,725	2,735	2,721	2,732	2,728	2,730	2,727	2,718	2,726
STATE AND LOCAL	12,301	12,295	12,306	12,328	12,382	12,461	12,502	12,507	12,601	12,607	12,639	12,656	12,661

^p = preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOMENT**

**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	1977												1978
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^P	Jan. ^P
TOTAL	53,800	54,080	54,462	54,693	54,823	54,968	55,122	55,117	55,267	55,337	55,644	55,842	55,964
GOODS-PRODUCING	17,180	17,349	17,594	17,739	17,806	17,877	17,888	17,784	17,829	17,890	17,985	18,002	18,053
MINING	609	617	636	639	637	645	624	609	643	645	649	518	524
CONTRACT CONSTRUCTION	2,764	2,880	2,983	3,056	3,067	3,100	3,119	3,097	3,095	3,113	3,152	3,159	3,126
MANUFACTURING	13,807	13,852	13,975	14,044	14,102	14,132	14,145	14,078	14,091	14,132	14,184	14,325	14,403
DURABLE GOODS	8,024	8,039	8,137	8,167	8,211	8,236	8,271	8,252	8,266	8,313	8,337	8,449	8,510
Ordnance and accessories	70	70	70	71	72	73	73	71	70	68	69	70	70
Lumber and wood products	529	532	538	540	543	544	544	548	553	556	567	569	572
Furniture and fixtures	405	409	413	417	419	420	423	416	418	424	429	434	437
Stone, clay, and glass products	502	489	511	518	521	527	523	524	522	531	531	536	539
Primary metal industries	925	919	939	944	952	954	943	937	948	946	944	944	953
Fabricated metal products	1,069	1,075	1,084	1,085	1,096	1,103	1,106	1,104	1,102	1,117	1,124	1,135	1,140
Machinery, except electrical	1,370	1,378	1,385	1,390	1,404	1,409	1,438	1,443	1,444	1,464	1,459	1,477	1,480
Electrical equipment and supplies	1,239	1,254	1,267	1,276	1,285	1,287	1,299	1,296	1,289	1,303	1,314	1,326	1,341
Transportation equipment	1,273	1,267	1,284	1,279	1,272	1,275	1,281	1,279	1,285	1,278	1,261	1,305	1,317
Instruments and related products	318	320	321	322	323	323	322	321	324	324	326	329	331
Miscellaneous manufacturing	324	326	325	325	324	321	315	314	309	311	313	324	330
NONDURABLE GOODS	5,783	5,813	5,838	5,877	5,891	5,896	5,874	5,826	5,825	5,819	5,847	5,876	5,893
Food and kindred products	1,170	1,175	1,181	1,187	1,181	1,181	1,170	1,156	1,157	1,141	1,149	1,156	1,160
Tobacco manufactures	60	60	56	60	58	59	57	54	54	53	54	54	54
Textile mill products	838	842	849	855	860	860	866	855	857	860	866	864	864
Apparel and other textile products	1,096	1,100	1,102	1,107	1,109	1,117	1,105	1,102	1,100	1,099	1,105	1,110	1,114
Paper and allied products	517	518	519	522	527	528	529	528	526	527	525	532	534
Printing and publishing	632	635	636	639	642	642	642	640	639	641	642	643	645
Chemicals and allied products	596	600	602	606	610	610	612	609	608	607	608	611	615
Petroleum and coal products	133	132	135	137	137	138	137	137	138	139	141	141	142
Rubber and plastics products, nec	514	524	530	536	538	534	536	522	522	524	532	541	543
Leather and leather products	227	227	228	228	229	227	220	223	224	227	226	224	222
SERVICE-PRODUCING	36,620	36,731	36,868	36,954	37,017	37,091	37,234	37,333	37,438	37,447	37,659	37,840	37,911
TRANSPORTATION AND PUBLIC UTILITIES	3,882	3,878	3,886	3,893	3,903	3,903	3,885	3,890	3,918	3,899	3,922	3,948	3,910
WHOLESALE AND RETAIL TRADE	15,876	15,927	15,994	16,035	16,064	16,114	16,165	16,208	16,234	16,202	16,293	16,361	16,436
WHOLESALE TRADE	3,572	3,588	3,602	3,614	3,622	3,623	3,627	3,629	3,639	3,637	3,659	3,671	3,694
RETAIL TRADE	12,304	12,339	12,392	12,421	12,442	12,491	12,538	12,579	12,595	12,565	12,634	12,690	12,742
FINANCE, INSURANCE, AND REAL ESTATE	3,371	3,382	3,393	3,402	3,410	3,420	3,437	3,439	3,459	3,476	3,496	3,503	3,510
SERVICES	13,491	13,544	13,595	13,624	13,640	13,654	13,747	13,796	13,827	13,870	13,948	14,028	14,055

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

^ppreliminary.

**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	78.2
May	68.6	73.3	71.5	79.1
June	63.7	70.1	68.0	78.5p
July	65.7	56.1	68.3	80.1p
August	50.0	62.5	68.3	
September	61.3	57.0	73.8p	
October	59.9	73.3	75.4p	
November	75.9	74.7p		
December	75.6p	77.5p		
1978				
January	64.6p			
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				

¹ Number of employees, seasonally adjusted, on payrolls of 172 private nonagricultural industries.
o = 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		
	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P
1 ALABAMA	1,231.1	1,267.1	1,264.5	14.7	14.8	6.9	70.0	71.0	69.0	345.5	352.5	354.6
2 Birmingham	326.4	327.6	323.9	8.6	8.1	2.8	19.6	20.8	19.7	66.1	64.3	64.7
3 Huntsville	104.7	108.0	108.0	(1)	(1)	(1)	3.5	3.8	3.7	29.7	32.3	32.3
4 Mobile	133.4	139.1	139.8	(1)	(1)	(1)	10.2	10.7	10.6	26.4	28.0	28.6
5 Montgomery	90.1	93.6	93.9	(1)	(1)	(1)	5.6	6.0	5.8	13.9	14.7	14.8
6 Tuscaloosa	48.3	47.5	46.9	.7	.9	.3	3.0	3.2	3.0	10.8	8.7	8.9
7 ALASKA	155.4	143.2	(*)	4.2	4.9	(*)	20.0	10.0	(*)	9.1	9.0	(*)
8 ARIZONA	783.9	812.6	818.1	25.6	20.3	19.8	42.9	53.4	53.6	109.3	114.9	115.0
9 Phoenix	467.4	490.5	494.9	.5	.5	.5	24.7	31.9	32.0	80.6	85.8	85.7
10 Tucson	152.5	151.9	153.0	8.4	6.0	5.9	9.6	10.4	10.8	12.8	12.8	12.9
11 ARKANSAS	669.7	709.7	708.3	4.8	5.2	5.1	32.9	37.2	35.8	197.2	214.0	212.1
12 Fayetteville-Springdale	54.1	56.8	55.9	(1)	(1)	(1)	3.0	2.9	2.8	15.8	17.1	17.0
13 Fort Smith	60.1	62.4	62.5	.5	.5	.5	2.5	2.6	2.6	21.1	22.8	22.7
14 Little Rock-North Little Rock	159.2	166.8	166.4	(1)	(1)	(1)	8.6	9.8	9.4	28.4	31.2	30.3
15 Pine Bluff	26.7	27.7	27.6	(1)	(1)	(1)	1.0	1.1	1.0	5.8	6.2	6.2
16 CALIFORNIA	8,332.0	8,708.6	8,778.4	35.3	36.6	36.3	334.9	398.1	396.1	1,661.2	1,695.7	1,693.0
17 Anaheim-Santa Ana-Garden Grove ..	623.5	659.8	668.9	1.8	2.2	2.2	35.1	42.0	41.4	161.7	169.6	171.3
18 Bakersfield	109.2	111.7	112.4	8.7	8.9	8.9	4.4	5.0	5.0	8.9	9.3	9.2
19 Fresno	156.6	165.1	163.9	.8	.8	.8	7.5	8.8	8.7	20.7	23.0	21.5
20 Los Angeles-Long Beach	3,196.9	3,290.2	3,314.6	11.6	11.5	11.5	96.8	109.3	109.7	807.5	820.7	820.4
21 Modesto	74.5	81.7	81.6	.1	.1	.1	4.3	5.0	5.0	16.1	18.1	17.4
22 Oxnard-Simi Valley-Ventura	118.6	119.7	121.1	2.1	2.2	2.3	4.6	5.0	4.8	18.0	18.0	18.5
23 Riverside-San Bernardino-Ontario ..	351.7	364.6	369.4	2.0	2.6	2.6	13.1	14.8	14.8	53.2	54.2	54.1
24 Sacramento	340.3	357.8	359.2	.3	.3	.3	14.1	16.8	16.1	22.2	23.4	23.0
25 Salinas-Seaside-Monterey	76.2	80.4	79.6	.6	.6	.6	2.8	3.4	3.5	8.6	9.8	9.2
26 San Diego	505.8	532.6	536.5	.8	.8	.8	28.3	31.7	31.7	72.4	77.5	78.6
27 San Francisco-Oakland	1,393.3	1,409.3	1,420.1	2.3	2.4	2.3	58.7	63.3	62.5	186.7	188.3	188.0
28 San Jose	500.2	523.3	531.4	.1	.1	.1	18.3	19.7	19.6	162.2	167.5	171.5
29 Santa Barbara-Santa Maria-Lompoc ..	103.8	105.0	105.5	1.0	1.0	1.0	3.5	3.5	3.5	13.9	13.7	13.7
30 Santa Rosa	70.1	74.4	74.3	.4	.4	.4	3.5	3.9	3.6	10.0	10.9	10.7
31 Stockton	102.9	108.4	106.9	.1	.1	.1	3.8	4.3	4.2	17.0	18.0	17.1
32 Vallejo-Fairfield-Napa	87.0	89.4	88.9	.2	.2	.2	3.0	3.4	3.1	8.8	8.5	8.1
33 COLORADO ²	987.2	1,010.5	1,009.7	20.5	23.2	22.2	54.2	60.9	59.0	139.6	145.1	145.7
34 Denver-Boulder ²	627.0	640.9	642.9	8.1	10.1	10.2	36.3	41.6	40.7	94.8	98.3	98.8
35 CONNECTICUT	1,260.7	1,277.9	1,285.8	(3)	(3)	(3)	39.5	41.9	39.5	400.5	399.4	400.5
36 Bridgeport	148.7	147.7	148.9	(3)	(3)	(3)	4.1	3.7	3.7	58.4	58.3	58.8
37 Hartford	345.0	349.8	352.2	(3)	(3)	(3)	9.5	10.2	9.5	83.2	83.5	83.9
38 New Britain	55.9	56.9	57.0	(3)	(3)	(3)	1.7	2.1	1.9	25.9	27.2	27.5
39 New Haven-West Haven	172.8	172.0	173.3	(3)	(3)	(3)	4.8	4.7	4.6	42.8	43.3	43.2
40 Stamford	92.1	94.9	95.8	(3)	(3)	(3)	3.1	3.4	3.2	27.7	27.3	27.4
41 Waterbury	82.4	81.9	82.3	(3)	(3)	(3)	2.2	2.1	1.8	33.5	31.5	31.7
42 DELAWARE	237.4	242.4	242.4	(1)	(1)	(1)	14.8	15.5	15.0	68.4	69.2	69.3
43 Wilmington	207.2	214.3	214.2	(1)	(1)	(1)	12.6	14.7	14.5	64.1	65.5	65.8
44 DISTRICT OF COLUMBIA	576.1	578.4	579.4	(1)	(1)	(1)	16.5	18.2	17.9	15.6	15.7	15.7
45 Washington SMSA	1,377.8	1,407.6	1,413.4	(1)	(1)	(1)	69.3	77.2	74.0	50.1	51.1	51.3
46 FLORIDA	2,880.5	2,941.4	2,985.0	9.2	9.2	9.3	172.5	187.2	190.2	351.9	366.8	371.1
47 Fort Lauderdale-Hollywood	241.4	248.0	254.1	(1)	(1)	(1)	16.8	18.7	18.7	26.5	29.3	29.5
48 Jacksonville	260.0	266.1	267.3	(1)	(1)	(1)	14.4	15.7	15.5	28.9	30.5	30.6
49 Miami	593.0	598.4	603.2	(1)	(1)	(1)	24.4	24.0	24.7	86.3	89.5	88.8
50 Orlando	214.1	217.0	220.0	(1)	(1)	(1)	11.5	11.9	12.0	25.6	27.1	27.5
51 Pensacola	88.9	92.1	93.0	(1)	(1)	(1)	6.4	6.6	6.8	13.5	13.7	13.7
52 Tampa-St. Petersburg	424.0	432.9	437.2	(1)	(1)	(1)	26.5	29.2	29.5	57.9	60.0	60.5
53 West Palm Beach-Boca Raton	151.1	154.0	157.9	(1)	(1)	(1)	9.8	10.7	10.9	18.9	21.0	21.3
54 GEORGIA	1,903.5	1,946.1	1,960.7	7.2	7.3	7.4	83.7	100.0	99.4	487.5	489.2	493.0
55 Atlanta	782.8	790.0	797.4	(1)	(1)	(1)	31.6	34.1	34.1	128.1	122.2	126.1
56 Augusta	109.7	114.6	116.5	(1)	(1)	(1)	6.5	8.0	7.7	34.9	36.4	36.6
57 Columbus	74.8	78.2	79.1	(1)	(1)	(1)	3.8	4.1	4.2	20.2	21.0	20.9
58 Macon	94.3	93.7	94.7	(1)	(1)	(1)	5.2	5.4	5.4	15.9	15.9	15.7
59 Savannah	78.2	80.5	81.1	(1)	(1)	(1)	4.8	5.6	5.4	16.1	16.1	16.1
60 HAWAII	354.9	351.6	358.9	(1)	(1)	(1)	20.7	16.3	18.0	22.2	18.8	22.6
61 Honolulu	295.8	293.8	298.3	(1)	(1)	(1)	16.9	13.2	15.1	16.1	15.2	16.5

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government		
DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P
64.0	68.0	67.9	255.8	260.4	266.6	53.4	55.2	55.5	176.8	183.8	184.1	250.9	261.4	259.9
24.4	25.0	24.9	81.0	80.1	82.4	20.8	21.1	21.2	56.4	57.3	57.3	49.5	50.9	50.9
2.3	2.3	2.3	20.6	20.5	20.9	2.8	2.9	2.9	15.1	15.5	15.4	30.7	30.7	30.5
9.9	10.7	10.5	33.1	34.1	34.8	6.1	6.5	6.4	25.9	26.6	26.2	21.8	22.5	22.7
4.2	4.4	4.3	21.3	23.0	23.4	5.2	5.3	5.4	16.6	16.8	16.8	23.3	23.4	23.4
1.8	1.7	1.7	9.2	9.2	9.4	1.5	1.6	1.6	5.1	5.2	5.1	16.2	17.0	16.9
15.3	12.5	(*)	28.6	25.5	(*)	7.5	7.9	(*)	25.1	23.9	(*)	45.6	49.5	(*)
40.3	41.8	42.1	191.2	193.5	198.9	43.1	45.1	45.0	147.4	154.0	154.0	184.1	189.6	189.7
24.1	25.2	25.4	124.7	126.7	130.4	33.2	34.7	34.7	89.3	92.4	92.4	90.3	93.3	93.8
7.6	7.6	7.6	34.5	33.8	34.9	5.9	6.2	6.2	30.5	31.2	31.3	43.2	43.9	43.4
37.7	38.9	38.5	146.9	151.6	155.7	28.6	30.6	30.6	95.3	99.8	99.1	126.3	132.4	131.4
2.9	2.9	2.9	13.0	13.5	13.7	1.8	2.1	2.0	7.1	7.5	7.4	10.5	10.8	10.1
3.3	3.3	3.3	13.5	13.6	13.7	2.2	2.2	2.3	10.0	10.3	10.3	7.0	7.1	7.1
11.0	11.3	11.3	38.4	38.7	39.6	11.7	12.3	12.3	27.9	29.3	29.3	33.2	34.2	34.2
3.4	3.5	3.4	5.5	5.6	5.8	1.2	1.2	1.2	4.0	4.0	4.1	5.8	6.1	5.9
467.6	489.1	489.7	1,971.0	2,047.1	2,099.4	478.5	498.6	502.1	1,638.6	1,732.6	1,744.8	1,744.9	1,810.8	1,817.0
19.0	20.1	20.3	155.4	161.9	167.4	34.1	37.3	37.7	116.0	122.4	124.1	100.4	104.3	104.5
7.1	7.1	7.1	27.7	28.4	29.1	3.9	3.9	3.9	17.5	18.2	18.2	31.0	30.9	31.0
9.1	9.3	9.1	42.8	44.3	45.2	8.0	8.2	8.2	28.4	29.4	29.5	39.3	41.3	40.9
176.3	181.8	182.7	756.9	771.2	791.4	190.9	199.4	200.0	664.0	693.5	696.7	492.9	502.8	502.2
3.3	3.5	3.5	18.1	20.3	20.8	2.1	2.3	2.3	13.4	14.1	14.0	17.1	18.3	18.5
4.6	4.7	4.8	28.2	28.1	28.9	4.5	4.6	4.6	20.5	20.5	20.5	36.1	36.6	36.7
19.1	20.5	20.6	86.5	86.7	89.8	13.6	14.0	14.0	71.9	74.6	75.4	92.3	97.2	98.1
17.3	18.2	18.1	80.0	83.7	85.2	15.3	16.4	16.4	57.7	60.5	60.9	133.4	138.5	139.2
4.3	4.5	4.5	19.9	20.6	20.7	3.3	3.5	3.5	14.7	15.3	15.2	22.0	22.7	22.4
22.9	24.2	24.2	119.7	124.6	127.4	26.7	28.6	28.8	102.0	106.7	106.6	133.0	138.5	138.4
120.5	120.3	120.4	322.3	320.1	329.0	116.5	117.7	118.8	281.4	288.7	289.9	304.9	307.5	309.2
18.3	19.1	19.0	103.0	107.1	110.7	20.3	21.2	21.2	101.2	110.5	110.7	76.8	78.1	78.6
3.4	3.4	3.4	25.4	25.4	25.8	4.4	4.4	4.4	24.7	25.2	25.3	27.5	28.4	28.4
3.3	3.7	3.7	17.6	18.3	18.6	3.7	4.0	4.0	13.0	13.6	13.6	18.6	19.6	19.7
7.5	7.9	7.5	24.6	25.7	25.8	4.1	4.3	4.3	19.5	20.8	20.5	26.3	27.3	27.4
4.0	4.0	4.0	16.5	17.0	17.6	2.6	2.8	2.8	15.0	16.0	15.6	36.9	37.5	37.5
60.5	64.0	63.9	241.4	240.4	244.9	60.1	61.3	61.3	194.0	192.7	191.8	216.9	223.0	220.9
40.2	43.5	43.2	159.7	158.2	161.0	44.6	45.2	45.3	126.1	124.8	124.4	117.1	119.2	119.3
53.9	53.9	53.8	269.6	271.9	277.8	88.3	90.7	91.2	231.0	242.9	245.3	178.0	177.3	177.7
5.6	5.4	5.4	31.0	30.2	30.6	6.0	6.0	6.0	26.2	26.1	26.1	17.5	18.0	18.2
12.6	13.0	13.3	76.4	75.5	77.1	50.6	52.7	53.2	61.6	63.5	63.8	51.0	51.3	51.5
1.4	1.4	1.3	10.0	9.6	9.7	1.6	1.6	1.6	8.5	8.4	8.3	6.7	6.7	6.7
13.8	13.8	13.8	37.6	37.3	38.0	9.6	9.8	9.8	40.3	39.5	40.0	23.9	23.7	23.8
3.1	3.2	3.3	21.6	22.6	23.5	6.1	6.4	6.6	20.0	21.2	21.4	10.6	10.7	10.4
3.0	3.0	3.0	15.3	15.5	15.9	2.8	3.0	3.0	14.9	15.9	15.9	10.8	11.0	11.0
12.0	12.1	12.1	52.3	53.8	54.8	11.1	11.1	11.0	38.4	38.8	39.2	40.4	41.9	41.0
10.7	10.7	10.7	43.5	44.5	45.3	10.1	10.0	9.9	32.9	33.8	34.0	33.3	35.1	34.0
29.1	29.1	29.0	67.4	67.9	68.6	33.6	32.5	32.6	148.4	149.8	150.0	265.5	265.2	265.6
65.3	66.6	66.6	276.4	279.8	286.1	78.4	80.5	80.7	321.4	331.8	332.2	516.9	520.6	522.5
186.6	189.1	193.1	766.3	760.3	785.3	188.2	192.4	191.9	631.0	648.7	655.0	574.8	587.7	589.1
13.2	13.7	13.9	69.7	67.2	70.9	19.4	21.4	21.6	56.7	57.5	59.2	39.1	40.2	40.3
20.8	21.1	21.2	70.9	72.5	73.5	26.3	26.4	26.4	48.0	48.4	48.5	50.7	51.5	51.6
59.4	59.9	60.0	150.6	153.4	155.6	43.4	43.4	43.5	145.2	143.4	145.8	83.7	84.8	84.8
11.9	11.7	11.8	60.5	60.1	60.9	14.0	14.4	14.4	55.4	55.7	57.1	35.2	36.1	36.3
4.3	4.3	4.6	21.2	22.2	22.7	3.6	3.8	3.8	15.5	16.4	16.3	24.4	25.1	25.1
26.6	26.9	27.2	121.7	121.2	124.1	29.0	30.2	30.2	93.1	93.0	93.3	69.2	72.4	72.4
6.8	6.7	6.7	40.8	40.3	42.7	11.1	11.6	11.7	37.6	37.0	37.9	26.1	26.7	26.7
120.3	123.2	123.8	454.5	449.0	460.7	100.6	100.8	101.3	284.5	294.9	293.5	365.2	381.7	381.6
69.8	71.5	71.5	227.9	225.4	229.6	57.9	57.3	57.4	139.5	145.8	144.9	128.0	133.7	133.8
4.1	4.1	4.0	19.9	20.7	21.9	3.7	3.8	3.8	13.5	14.2	14.4	27.1	27.4	28.0
3.0	2.9	2.9	16.9	16.4	17.2	4.6	4.9	4.9	9.7	10.4	10.5	16.7	18.4	18.4
4.2	4.2	4.2	17.9	16.7	17.7	5.4	5.5	5.5	15.1	15.7	15.9	30.6	30.3	30.3
8.5	8.6	8.9	18.7	18.7	19.2	3.8	3.8	3.8	12.5	13.1	13.1	13.9	14.6	14.6
27.3	28.1	28.0	91.4	91.2	92.5	25.1	24.8	24.9	81.5	86.1	85.8	86.7	86.3	87.1
22.7	23.2	23.2	77.3	76.4	77.3	22.0	22.0	22.1	66.4	70.2	69.8	74.4	73.6	74.3

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		
	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P
1 IDAHO	297.4	312.9	312.1	3.1	3.8	3.7	17.4	20.3	18.9	52.7	55.4	54.8
2 Boise City	67.4	71.5	71.3	(1)	(1)	(1)	5.2	5.9	5.6	6.8	7.2	7.1
3 ILLINOIS	4,538.8	4,631.2	4,620.3	27.0	27.4	14.8	167.7	184.2	170.0	1,210.7	1,227.1	1,224.1
4 Bloomington—Normal	47.9	50.3	50.2	(3)	(3)	(3)	1.2	1.2	1.0	7.2	8.2	7.9
5 Champaign—Urbana—Rantoul	67.1	68.4	68.3	(3)	(3)	(3)	2.9	3.2	2.9	6.4	6.5	6.5
6 Chicago—Gary	3,283.3	(*)	(*)	4.2	(*)	(*)	115.3	(*)	(*)	914.1	(*)	(*)
7 Chicago SMSA	3,048.2	3,116.0	3,112.8	4.1	4.3	4.2	102.7	121.4	113.7	816.9	835.5	835.6
8 Davenport—Rock Island—Moline	154.4	153.4	153.6	(3)	(3)	(3)	5.7	5.8	5.6	50.3	49.6	49.5
9 Decatur	54.6	55.1	54.5	(3)	(3)	(3)	3.2	3.9	3.4	19.5	19.0	19.0
10 Peoria	146.4	148.5	147.9	(3)	(3)	(3)	8.7	9.2	8.4	51.1	51.1	51.0
11 Rockford	114.3	115.0	115.3	(3)	(3)	(3)	3.2	3.8	3.6	51.6	50.3	50.4
12 Springfield	79.4	82.0	81.5	(3)	(3)	(3)	4.0	4.7	4.1	8.3	9.1	9.1
13 INDIANA	2,035.0	2,101.5	2,091.8	7.8	8.3	4.9	77.4	86.1	76.4	688.6	713.1	708.6
14 Anderson	50.6	52.1	52.6	(1)	(1)	(1)	1.1	1.2	1.1	25.6	26.6	26.7
15 Evansville	111.8	114.5	113.0	2.4	2.4	1.1	5.1	5.7	5.3	35.3	36.4	36.4
16 Fort Wayne	158.2	162.8	161.9	(1)	(1)	(1)	6.2	6.7	6.2	56.8	59.1	58.2
17 Gary—Hammond—East Chicago	235.1	242.8	242.5	(1)	(1)	(1)	12.6	14.0	13.4	97.2	99.6	99.3
18 Indianapolis	467.5	484.3	483.5	(1)	(1)	(1)	17.0	18.7	17.5	120.7	126.5	126.4
19 Lafayette—West Lafayette	52.6	55.7	55.5	(1)	(1)	(1)	1.5	1.8	1.6	10.8	12.3	12.4
20 Muncie	48.4	49.9	49.9	(1)	(1)	(1)	1.8	1.7	1.5	15.0	15.0	15.1
21 South Bend	103.5	104.6	104.5	(1)	(1)	(1)	4.0	4.5	4.2	32.0	32.5	32.5
22 Terre Haute	57.9	60.3	58.7	1.1	1.2	.2	1.9	2.2	2.0	15.2	16.3	16.2
23 IOWA	1,030.4	1,058.9	(*)	2.6	2.8	(*)	44.1	50.0	(*)	237.6	240.0	(*)
24 Cedar Rapids	75.6	77.5	77.5	(1)	(1)	(1)	2.6	3.3	3.2	27.8	28.7	28.6
25 Des Moines	159.0	163.1	162.8	(1)	(1)	(1)	6.3	7.4	6.4	24.5	23.4	23.3
26 Dubuque	40.5	41.4	41.6	(1)	(1)	(1)	1.0	1.3	1.2	16.2	16.2	16.2
27 Sioux City	49.7	49.6	48.5	(1)	(1)	(1)	3.4	4.6	4.0	11.5	10.1	9.7
28 Waterloo—Cedar Falls	58.9	60.1	59.7	(1)	(1)	(1)	2.1	2.4	2.2	20.8	21.4	21.3
29 KANSAS	854.3	876.3	882.4	11.1	12.2	12.1	42.7	45.0	44.0	169.9	170.9	174.5
30 Topeka	79.7	82.5	82.9	.2	.2	.2	3.4	3.6	3.6	10.8	11.0	11.4
31 Wichita	179.4	181.4	181.6	1.7	1.8	1.9	9.2	9.8	9.2	51.9	53.5	54.0
32 KENTUCKY	1,111.5	1,186.8	(*)	46.1	53.4	(*)	54.1	69.8	(*)	267.1	282.7	(*)
33 Lexington—Fayette	134.6	136.2	138.5	(1)	(1)	(1)	6.8	7.2	6.7	29.3	30.3	31.3
34 Louisville	354.7	377.0	(*)	(1)	(1)	(*)	14.6	16.7	(*)	97.4	109.9	(*)
35 LOUISIANA	1,317.2	1,324.8	1,331.2	62.7	64.9	64.9	118.4	114.7	114.6	193.8	200.3	198.7
36 Alexandria	45.9	46.8	46.6	(1)	(1)	(1)	2.7	2.7	2.7	6.2	6.2	6.0
37 Baton Rouge	173.0	177.4	176.9	1.0	.9	.9	22.8	22.4	22.6	24.4	25.2	25.2
38 Lafayette	52.8	54.4	54.7	8.4	8.8	9.0	3.2	3.6	3.7	3.2	3.3	3.4
39 Lake Charles	53.0	52.7	52.6	1.6	1.6	1.7	5.7	5.1	4.7	11.5	11.6	11.6
40 Monroe	43.6	44.0	43.9	.4	.3	.3	3.3	3.6	3.5	7.3	7.6	7.6
41 New Orleans	439.9	440.1	444.2	14.8	15.3	15.3	26.3	26.8	26.8	52.2	53.2	53.2
42 Shreveport	129.1	131.4	132.8	4.7	4.6	4.6	7.9	8.0	8.0	25.7	27.6	27.6
43 MAINE	377.2	392.9	390.7	(1)	(1)	(1)	21.1	23.5	21.3	102.0	108.7	107.6
44 Lewiston—Auburn	32.3	33.5	33.4	(1)	(1)	(1)	1.2	1.3	1.3	12.1	12.5	12.4
45 Portland	82.6	84.2	85.2	(1)	(1)	(1)	4.0	4.0	3.6	15.7	15.6	15.7
46 MARYLAND	1,534.6	1,565.3	1,570.4	1.7	1.7	1.4	92.4	99.8	95.3	230.5	236.1	236.1
47 Baltimore	866.2	882.5	884.9	(1)	(1)	(1)	43.3	48.5	45.7	159.7	163.0	163.0
48 MASSACHUSETTS	2,350.3	2,403.4	2,409.5	(1)	(1)	(1)	67.8	70.9	66.5	604.0	616.5	615.3
49 Boston	1,278.5	1,291.5	1,296.4	(1)	(1)	(1)	40.1	41.2	39.0	257.2	260.9	260.7
50 Brockton	51.1	53.1	53.1	-	-	-	1.6	1.6	1.5	11.7	12.2	12.1
51 Fall River	51.0	53.6	53.1	(1)	(1)	(1)	1.3	1.3	1.2	20.4	21.2	21.0
52 Lawrence—Haverhill	93.6	98.8	98.2	(1)	(1)	(1)	2.0	2.6	2.4	36.4	38.9	38.7
53 Lowell	62.4	64.6	64.9	(1)	(1)	(1)	2.3	2.4	2.3	20.9	22.5	22.7
54 New Bedford	60.5	62.1	61.9	(1)	(1)	(1)	1.5	1.6	1.5	24.4	25.1	25.0
55 Springfield—Chicopee—Holyoke	214.6	219.6	218.7	(1)	(1)	(1)	5.3	5.5	5.2	63.0	65.4	64.2
56 Worcester	149.2	151.4	151.8	(1)	(1)	(1)	3.6	3.6	3.4	44.6	45.3	45.3
57 MICHIGAN	3,369.4	3,514.8	(*)	10.0	10.6	(*)	106.4	139.4	(*)	1,093.6	1,140.0	(*)
58 Ann Arbor	125.8	131.5	(*)	(1)	(1)	(*)	2.4	3.0	(*)	39.7	42.5	(*)
59 Battle Creek	64.1	65.8	(*)	(1)	(1)	(*)	1.4	1.8	(*)	23.0	23.6	(*)
60 Bay City	34.6	36.0	(*)	(1)	(1)	(*)	1.2	1.6	(*)	10.7	11.3	(*)
61 Detroit	1,679.7	1,729.6	(*)	1.3	1.3	(*)	52.1	66.8	(*)	564.3	580.4	(*)
62 Flint	190.2	199.2	(*)	(1)	(1)	(*)	4.9	6.7	(*)	82.8	88.3	(*)
63 Grand Rapids	235.4	245.4	(*)	(1)	(1)	(*)	8.5	10.5	(*)	79.8	85.7	(*)

**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			
DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	
17.5	18.4	18.2	77.5	78.2	79.2	15.9	16.5	16.5	49.5	52.0	53.0	63.8	68.3	67.8	1
4.2	4.4	4.3	18.5	19.5	19.8	5.3	5.9	5.9	11.3	12.1	12.2	16.1	16.5	16.4	2
276.3	281.3	280.1	1,068.3	1,077.5	1,092.0	258.5	266.6	267.7	806.2	837.3	835.9	724.1	729.8	735.7	3
3.1	3.1	3.1	11.3	11.7	11.9	6.5	6.9	6.9	7.1	7.1	7.1	11.6	12.1	12.2	4
2.6	2.6	2.6	15.0	14.7	14.9	2.0	2.1	2.1	9.3	9.8	9.8	29.0	29.7	29.6	5
200.7	(*)	(*)	780.9	(*)	(*)	202.6	(*)	(*)	614.7	(*)	(*)	451.0	(*)	(*)	6
186.6	188.5	187.4	737.3	745.9	751.4	194.7	196.8	197.9	584.1	595.7	594.8	421.9	428.0	427.9	7
7.2	7.6	7.6	38.7	38.4	38.8	6.3	6.4	6.4	20.2	20.4	20.4	26.0	25.3	25.4	8
4.3	4.3	4.1	10.7	10.8	10.8	2.3	2.4	2.4	9.4	9.4	9.4	5.2	5.4	5.4	9
7.8	8.1	8.1	32.9	33.4	33.7	6.7	7.0	7.0	24.3	25.5	25.5	14.9	14.2	14.2	10
4.8	5.1	5.2	23.2	23.7	24.2	3.3	3.5	3.5	16.2	16.5	16.5	12.0	12.1	12.1	11
5.2	5.0	5.0	16.2	17.3	17.3	6.6	6.6	6.7	13.9	14.2	14.3	25.2	25.1	25.0	12
101.8	104.9	104.3	449.6	459.6	469.3	90.8	91.9	91.8	284.2	288.6	288.7	334.8	349.2	348.0	13
1.4	1.3	1.3	9.3	9.3	9.8	1.5	1.6	1.6	6.1	6.2	6.2	5.6	5.9	5.9	14
6.0	6.2	6.1	26.5	27.3	27.9	3.9	3.9	3.9	20.5	20.8	20.5	12.1	11.8	11.8	15
10.0	10.2	10.1	37.6	38.2	38.9	9.0	9.2	9.2	23.3	24.1	24.0	15.3	15.3	15.3	16
14.1	14.7	14.6	43.6	45.5	46.1	7.9	8.2	8.2	30.6	31.3	31.3	29.1	29.5	29.6	17
28.6	29.3	29.3	113.9	117.2	118.8	32.7	33.5	33.5	72.3	74.0	73.9	82.3	85.1	84.1	18
1.5	1.5	1.5	10.4	10.8	10.9	2.5	2.7	2.7	7.4	7.5	7.6	18.5	19.1	18.9	19
1.9	1.9	1.9	11.0	11.7	12.0	1.4	1.5	1.5	6.7	7.0	6.9	10.6	11.1	11.0	20
4.9	5.0	5.1	24.5	24.7	24.9	4.9	4.7	4.7	21.4	21.3	21.2	11.8	11.9	11.9	21
4.1	3.9	3.8	13.9	14.5	14.5	1.9	1.9	1.9	8.2	8.4	8.4	11.6	11.9	11.7	22
54.5	55.1	(*)	259.4	265.1	(*)	47.8	49.1	(*)	185.0	190.3	(*)	199.5	206.4	(*)	23
3.6	3.7	3.6	15.8	15.7	15.9	3.5	3.7	3.7	13.1	13.5	13.5	9.2	9.0	9.0	24
10.5	10.4	10.4	41.9	42.4	43.2	17.5	18.4	18.4	31.4	33.2	33.1	26.9	27.9	28.0	25
1.6	1.5	1.5	8.3	8.6	8.9	1.1	1.1	1.1	8.7	9.1	9.1	3.5	3.5	3.5	26
3.6	3.4	3.4	12.3	11.8	11.8	2.4	2.5	2.5	9.9	10.6	10.3	6.6	6.6	6.8	27
2.2	2.1	2.1	12.8	12.8	12.9	1.6	1.6	1.7	8.8	9.3	9.2	10.6	10.4	10.3	28
57.3	58.7	58.6	210.9	213.3	216.7	41.4	43.0	43.2	143.9	151.9	151.8	177.1	181.3	181.5	29
7.1	7.6	7.5	17.7	18.3	18.3	5.6	5.7	5.7	14.3	15.1	15.0	20.6	21.0	21.2	30
9.6	10.0	10.1	41.3	40.4	41.0	9.0	9.0	9.0	33.8	34.3	33.8	22.9	22.6	22.6	31
60.0	64.3	(*)	239.9	258.8	(*)	43.2	46.9	(*)	176.6	182.9	(*)	224.5	228.0	(*)	32
5.9	5.9	6.1	31.3	32.6	33.8	5.9	6.0	6.1	23.1	23.8	23.8	32.3	30.4	30.7	33
22.4	22.8	(*)	82.6	83.3	(*)	19.4	21.1	(*)	65.7	69.1	(*)	52.6	54.2	(*)	34
100.5	99.0	101.7	301.4	301.7	306.6	60.6	62.3	62.4	224.2	224.6	225.7	255.6	257.3	256.6	35
2.5	2.4	2.4	10.8	10.8	10.9	2.5	2.5	2.5	8.5	8.5	8.4	12.7	13.7	13.7	36
8.5	8.5	8.4	34.5	33.7	34.1	9.4	10.5	10.3	24.6	25.2	25.1	47.8	51.0	50.3	37
4.1	4.3	4.4	14.3	14.5	14.6	1.8	1.9	2.0	9.3	9.4	9.3	8.5	8.6	8.3	38
3.1	3.1	3.1	11.5	11.8	12.0	2.2	2.4	2.4	8.6	8.6	8.6	8.8	8.5	8.5	39
2.4	2.3	2.3	11.8	11.2	11.4	3.1	3.2	3.3	6.6	6.7	6.6	8.7	9.1	8.9	40
45.0	40.5	43.1	114.1	113.9	115.3	26.7	27.0	27.0	92.0	93.2	93.4	68.8	70.2	70.1	41
9.4	9.0	9.0	33.4	33.8	34.8	5.8	5.9	5.9	21.6	21.7	21.9	20.6	20.8	21.0	42
17.7	17.6	17.8	80.5	82.6	84.0	14.6	15.0	14.9	63.0	64.5	63.6	78.3	81.0	81.5	43
1.2	1.1	1.2	7.5	7.7	7.9	1.3	1.4	1.4	6.0	6.3	6.1	3.0	3.2	3.1	44
4.9	5.0	5.2	22.9	23.0	24.1	6.6	6.7	6.7	15.6	16.1	16.1	12.9	13.8	13.8	45
78.7	79.6	80.5	382.1	383.0	391.8	80.1	82.2	81.7	290.7	300.4	299.8	378.4	382.5	383.8	46
55.4	55.8	56.9	205.0	205.2	209.8	48.9	50.2	49.7	160.9	166.3	166.0	193.0	193.5	193.8	47
112.8	112.8	114.7	543.1	548.1	557.1	135.0	135.6	136.1	517.8	541.2	540.4	369.8	378.3	379.4	48
67.7	67.6	68.4	305.8	302.5	308.2	93.0	94.6	95.1	322.1	329.7	329.4	192.6	195.0	195.6	49
3.8	4.0	4.0	14.6	14.7	14.9	1.7	1.9	1.8	8.2	8.7	8.7	9.5	10.0	10.1	50
1.9	1.9	1.9	11.0	11.5	11.8	2.3	2.3	2.3	8.4	9.1	8.6	5.7	6.3	6.3	51
3.6	3.6	3.7	19.5	19.5	19.7	3.5	3.6	3.6	13.7	14.1	13.9	14.9	16.5	16.2	52
3.0	3.2	3.2	14.1	14.1	14.4	1.9	1.9	1.9	9.8	10.1	10.0	10.4	10.4	10.4	53
2.6	2.6	2.6	12.2	12.2	12.3	1.7	1.8	1.8	10.0	10.5	10.4	8.1	8.3	8.3	54
8.9	9.0	8.9	45.6	44.7	45.9	10.7	11.0	11.0	37.7	40.1	40.1	43.4	43.9	43.4	55
7.0	6.6	6.7	32.8	33.2	33.5	8.1	8.1	8.1	28.4	28.8	29.0	24.7	25.8	25.8	56
145.1	149.8	(*)	709.7	718.9	(*)	137.1	140.7	(*)	554.2	581.4	(*)	613.3	634.2	(*)	57
2.1	2.2	(*)	17.8	18.4	(*)	3.4	3.6	(*)	17.4	18.1	(*)	43.0	43.7	(*)	58
2.0	2.1	(*)	10.8	10.9	(*)	3.5	3.5	(*)	10.9	11.4	(*)	12.5	12.5	(*)	59
1.8	2.0	(*)	8.9	8.9	(*)	1.1	1.1	(*)	5.9	6.1	(*)	5.0	5.0	(*)	60
82.4	81.5	(*)	345.4	348.0	(*)	80.4	82.1	(*)	297.4	313.7	(*)	256.4	255.9	(*)	61
5.9	6.1	(*)	38.4	38.2	(*)	5.3	5.5	(*)	24.3	26.4	(*)	28.6	28.0	(*)	62
9.4	9.6	(*)	57.0	57.1	(*)	8.4	8.5	(*)	42.7	43.5	(*)	29.5	30.5	(*)	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		
	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P
MICHIGAN—Continued												
1 Jackson	49.9	51.6	(*)	(1)	(1)	(*)	1.3	1.8	(*)	15.4	15.9	(*)
2 Kalamazoo—Portage	102.7	106.1	(*)	(1)	(1)	(*)	3.5	4.1	(*)	34.5	35.6	(*)
3 Lansing—East Lansing	176.6	187.3	(*)	(1)	(1)	(*)	4.3	5.3	(*)	41.1	43.8	(*)
4 Muskegon—Norton Shores—Muskegon Hts.	58.0	60.3	(*)	(1)	(1)	(*)	2.3	2.6	(*)	21.7	22.5	(*)
5 Saginaw	84.3	90.4	(*)	(1)	(1)	(*)	2.3	2.6	(*)	33.7	37.4	(*)
6 MINNESOTA	1,539.6	1,609.6	1,601.2	14.4	5.2	5.8	57.7	75.1	66.7	318.0	334.4	334.7
7 Duluth—Superior	56.7	56.2	56.2	(1)	(1)	(1)	2.0	2.1	2.0	7.7	7.2	7.3
8 Minneapolis—St. Paul	927.1	966.5	970.9	(1)	(1)	(1)	32.5	39.9	38.0	206.1	217.2	218.1
9 MISSISSIPPI	743.3	775.2	778.6	7.2	8.0	8.0	40.9	44.4	43.7	219.9	231.0	230.4
10 Jackson	123.7	126.0	126.9	1.0	1.1	1.1	6.6	7.3	7.2	18.1	18.1	18.2
11 MISSOURI	1,799.6	1,849.0	1,838.6	8.5	9.2	7.8	67.7	78.1	69.9	426.3	443.5	441.3
12 Kansas City	566.0	582.3	582.8	.6	.6	.6	21.8	23.5	22.4	113.6	120.9	120.4
13 St. Joseph	36.1	36.7	37.0	(3)	(3)	(3)	1.8	2.0	2.1	8.9	9.4	9.4
14 St. Louis	926.8	937.1	931.2	2.7	2.7	1.7	35.0	37.0	33.4	245.9	248.4	245.6
15 Springfield	76.0	77.9	77.6	.1	.1	.1	3.2	3.4	3.2	18.2	18.2	17.9
16 MONTANA	251.5	(*)	(*)	5.8	(*)	(*)	12.6	(*)	(*)	24.2	(*)	(*)
17 Billings	41.4	(*)	(*)	(1)	(*)	(*)	2.3	(*)	(*)	3.7	(*)	(*)
18 Great Falls	27.0	(*)	(*)	(1)	(*)	(*)	1.8	(*)	(*)	1.7	(*)	(*)
19 NEBRASKA	582.9	589.1	589.3	1.8	1.9	1.8	25.4	27.2	24.4	91.3	90.8	92.0
20 Lincoln	91.9	95.0	94.9	-	-	-	3.9	4.2	3.7	13.6	14.2	14.2
21 Omaha	241.3	246.9	246.6	(3)	(3)	(3)	10.3	11.1	10.5	35.3	36.0	35.7
22 NEVADA	286.1	312.1	310.9	3.6	3.4	3.4	14.9	18.7	18.4	13.4	14.0	14.1
23 Las Vegas	156.9	169.8	169.7	.2	.2	.2	7.6	9.5	9.3	5.3	5.4	5.5
24 Reno	82.9	90.0	89.7	.4	.4	.4	5.1	6.5	6.5	5.7	5.9	5.9
25 NEW HAMPSHIRE	316.9	344.8	344.9	.4	.5	.5	14.6	18.6	18.0	96.0	103.2	103.0
26 Manchester	62.5	69.8	70.3	(3)	(3)	(3)	2.7	3.3	3.0	17.9	19.5	19.5
27 Nashua	46.6	50.1	50.1	(3)	(3)	(3)	1.7	2.4	2.3	21.1	22.1	22.0
28 NEW JERSEY	2,773.8	2,852.1	2,865.3	2.7	3.3	3.2	94.9	108.3	105.1	749.3	773.4	766.2
29 Atlantic City	61.2	65.9	64.3	-	-	-	2.7	3.9	3.6	8.3	8.3	7.9
30 Camden	296.9	301.6	305.4	.1	.1	.1	12.2	12.3	11.8	64.6	68.4	68.6
31 Hackensack	362.5	374.1	374.5	(1)	(1)	(1)	12.4	16.6	15.6	105.1	107.0	105.2
32 Jersey City	231.5	231.8	230.2	-	-	-	4.9	5.0	4.9	71.9	75.3	73.2
33 Long Branch—Asbury Park	139.0	146.1	146.1	(1)	(1)	(1)	5.7	6.4	6.4	21.3	23.4	23.3
34 New Bruns.—Parth Amboy—Sayreville	246.9	256.2	259.1	(1)	(1)	(1)	9.1	9.5	9.9	79.4	84.9	84.9
35 Newark	870.0	889.2	893.8	.9	1.3	1.3	29.2	30.9	29.8	238.4	243.9	242.7
36 Paterson—Clifton—Passaic	180.8	184.8	184.7	(1)	(1)	(1)	4.8	5.7	5.4	64.4	65.0	63.8
37 Trenton	153.6	159.2	160.0	(1)	(1)	(1)	2.9	2.9	2.8	37.7	38.7	38.6
38 Vineland—Millville—Bridgeton	51.7	53.4	54.0	(1)	(1)	(1)	1.2	1.5	1.4	18.4	18.9	19.2
39 NEW MEXICO	396.7	423.4	424.9	21.7	23.9	23.4	24.3	29.7	28.9	30.6	32.1	32.0
40 Albuquerque	159.2	169.2	170.3	(1)	(1)	(1)	9.5	11.8	11.7	16.1	16.7	16.6
41 NEW YORK	6,808.5	6,870.3	6,884.2	7.0	7.4	7.1	179.0	190.5	178.9	1,441.7	1,465.8	1,453.5
42 Albany—Schenectady—Troy	312.1	316.8	316.6	(1)	(1)	(1)	9.6	10.9	9.9	62.7	62.0	61.8
43 Binghamton	109.0	112.8	112.9	(1)	(1)	(1)	4.0	4.8	4.1	39.7	40.6	40.9
44 Buffalo	496.9	505.9	505.1	(1)	(1)	(1)	16.6	19.0	17.0	143.2	143.4	142.8
45 Elmira	36.1	37.3	36.6	(1)	(1)	(1)	1.4	1.8	1.6	11.4	11.6	11.4
46 Monroe County	323.5	324.1	324.7	(1)	(1)	(1)	8.8	9.9	9.1	128.7	127.3	127.0
47 Nassau—Suffolk	808.4	824.3	829.7	(1)	(1)	(1)	26.9	28.6	27.6	145.2	149.6	149.2
48 New York—Northeastern New Jersey	6,290.6	6,342.7	(*)	3.4	3.8	(*)	166.1	176.9	(*)	1,323.9	1,351.5	(*)
49 New York and Nassau—Suffolk	4,399.1	4,408.2	4,422.1	2.0	2.0	2.0	105.8	109.3	105.9	764.8	776.6	765.2
50 New York SMSA	3,590.6	3,583.9	3,592.3	1.9	1.9	1.9	78.9	80.7	78.3	619.6	627.0	616.0
51 New York City	3,197.3	3,180.6	3,187.9	1.7	1.7	1.7	64.3	65.4	64.4	539.1	544.6	533.8
52 Poughkeepsie	86.8	89.4	89.4	(1)	(1)	(1)	2.7	3.4	3.1	28.1	29.3	29.4
53 Rochester	395.8	399.0	397.9	(1)	(1)	(1)	10.7	11.6	10.6	148.0	148.8	147.3
54 Rockland County	72.4	74.8	74.7	(1)	(1)	(1)	1.7	1.6	1.5	14.6	14.7	14.6
55 Syracuse	241.1	252.8	251.8	(1)	(1)	(1)	8.3	10.7	9.8	55.9	59.1	59.0
56 Utica—Rome	110.9	113.2	112.8	(1)	(1)	(1)	3.1	3.9	3.4	30.0	30.5	30.5
57 Westchester County	310.1	317.5	318.9	(1)	(1)	(1)	12.3	13.1	11.8	64.7	66.4	66.4
58 NORTH CAROLINA	2,092.6	2,162.4	2,172.3	4.8	4.9	4.9	102.6	105.0	104.0	768.0	802.6	805.1
59 Asheville	62.6	65.1	65.6	(1)	(1)	(1)	3.2	3.2	3.1	20.2	20.1	20.5
60 Charlotte—Gastonia	283.0	291.4	291.7	(1)	(1)	(1)	13.8	15.0	14.8	80.5	83.8	83.9
61 Greensboro—Winston-Salem—High Pt.	347.2	357.3	358.6	(1)	(1)	(1)	14.4	15.2	14.8	137.5	141.1	141.6

**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			
DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	
4.4	4.4	(*)	9.9	10.0	(*)	1.5	1.5	(*)	8.7	9.2	(*)	8.7	8.8	(*)	1
3.3	3.5	(*)	19.8	19.8	(*)	3.4	3.5	(*)	17.3	17.6	(*)	20.9	22.0	(*)	2
4.2	4.4	(*)	33.0	34.1	(*)	8.1	8.5	(*)	23.2	24.3	(*)	62.7	66.9	(*)	3
3.0	3.0	(*)	10.9	11.2	(*)	1.7	1.7	(*)	8.2	8.6	(*)	10.2	10.7	(*)	4
3.9	4.1	(*)	17.5	18.3	(*)	3.8	3.8	(*)	11.7	11.9	(*)	11.4	12.3	(*)	5
92.2	94.3	94.1	400.2	414.0	420.0	79.2	80.7	81.1	298.3	312.0	312.2	279.5	285.0	286.7	6
6.2	6.2	5.9	15.6	15.0	15.3	2.1	2.1	2.1	11.3	11.8	11.7	11.8	11.9	11.9	7
58.9	59.3	59.3	240.7	248.0	252.1	58.4	59.2	59.7	186.2	195.8	195.7	144.3	147.2	148.0	8
35.0	36.6	36.0	150.0	154.5	159.3	29.2	30.2	30.3	103.6	108.0	108.0	157.5	162.7	162.9	9
7.6	7.9	7.9	28.7	29.1	29.8	9.6	9.8	9.8	24.4	24.6	24.5	27.7	28.2	28.4	10
125.5	130.5	130.9	434.8	432.8	436.9	94.1	95.3	95.2	323.0	334.5	332.5	319.7	325.1	324.0	11
49.6	51.1	50.9	150.2	150.6	153.4	36.7	37.4	37.5	109.6	111.7	111.8	83.9	86.5	85.8	12
2.8	2.6	2.6	8.9	9.1	9.3	1.8	1.8	1.8	6.3	5.8	5.9	5.6	6.0	5.9	13
62.9	65.8	65.9	213.7	211.3	214.5	49.4	49.8	49.9	181.7	184.1	182.5	135.5	138.0	137.7	14
5.6	5.7	5.7	20.5	21.5	21.7	2.9	2.9	2.9	14.7	15.4	15.4	10.8	10.7	10.7	15
19.3	(*)	(*)	64.4	(*)	(*)	10.7	(*)	(*)	47.9	(*)	(*)	66.6	(*)	(*)	16
3.0	(*)	(*)	14.3	(*)	(*)	2.0	(*)	(*)	7.6	(*)	(*)	8.5	(*)	(*)	17
1.9	(*)	(*)	8.5	(*)	(*)	1.6	(*)	(*)	5.6	(*)	(*)	5.9	(*)	(*)	18
41.0	42.2	41.9	158.5	156.7	158.8	36.8	38.2	38.3	107.2	110.0	109.7	121.0	122.1	122.5	19
5.8	6.0	5.9	19.8	21.2	21.7	6.2	6.4	6.4	15.6	16.0	15.8	27.0	27.0	27.2	20
21.5	22.5	22.3	60.9	60.6	61.1	20.4	21.3	21.4	50.5	51.8	51.8	42.3	43.7	43.8	21
18.2	18.8	18.8	59.2	63.6	64.6	11.7	12.6	12.6	117.0	129.5	127.5	48.1	51.5	51.5	22
10.0	10.4	10.4	32.3	34.5	35.3	6.3	6.8	6.8	74.3	80.0	79.1	20.8	23.0	23.1	23
6.0	6.3	6.3	19.1	20.4	20.7	4.5	4.8	4.8	27.6	31.4	30.8	14.5	14.3	14.3	24
12.2	12.6	12.5	70.0	77.3	78.5	15.5	16.6	16.8	56.5	61.0	60.5	51.7	55.0	55.1	25
3.9	4.1	4.1	15.3	18.1	18.6	4.3	4.9	4.9	11.4	12.1	12.1	7.0	7.8	8.1	26
1.8	1.8	1.8	9.4	10.1	10.2	1.6	1.7	1.7	6.5	7.0	7.0	4.5	5.0	5.1	27
177.9	178.8	183.9	648.2	652.6	666.7	139.6	145.2	145.6	487.4	512.2	512.1	473.8	478.3	482.5	28
3.3	3.6	3.6	16.1	17.0	16.6	4.4	4.9	4.9	13.0	14.4	14.0	13.4	13.8	13.7	29
14.8	14.7	14.7	82.4	82.6	84.9	13.8	14.1	14.1	52.8	54.2	54.4	56.2	55.2	56.8	30
17.8	16.9	16.9	108.2	110.9	114.1	14.0	14.1	14.1	64.5	68.1	68.0	40.5	40.5	40.6	31
30.2	30.0	30.0	44.1	43.8	44.4	8.7	8.8	8.9	28.5	27.6	27.5	43.2	41.3	41.3	32
5.4	5.6	5.7	36.0	36.6	37.1	5.4	6.4	6.4	32.9	33.9	33.3	32.3	33.8	33.9	33
17.1	16.9	17.1	55.4	55.9	57.3	8.8	8.6	8.5	32.8	34.2	34.3	44.3	46.2	47.1	34
64.4	62.6	65.1	172.9	170.0	173.6	59.4	60.2	60.3	164.0	174.5	174.4	140.8	145.8	146.6	35
7.1	6.8	6.9	41.9	41.7	42.8	8.8	9.2	9.2	28.1	27.7	27.7	25.7	28.7	28.9	36
5.2	5.0	5.1	24.1	23.6	24.5	5.8	6.3	6.3	38.0	39.5	39.3	39.9	43.2	43.4	37
3.1	2.9	2.9	8.2	8.4	8.5	2.4	2.5	2.5	7.6	7.9	7.9	10.8	11.3	11.6	38
23.8	25.2	25.5	95.6	99.4	102.0	17.2	17.9	18.0	74.2	81.5	81.2	109.3	113.7	113.9	39
8.6	9.4	9.4	42.6	44.2	45.3	8.6	9.0	9.0	36.5	38.8	38.9	37.3	39.3	39.4	40
431.0	424.4	424.6	1,456.8	1,429.3	1,461.0	575.7	576.3	577.3	1,474.7	1,492.2	1,491.5	1,242.7	1,284.2	1,290.3	41
15.1	14.4	14.4	62.5	62.1	62.6	13.7	13.9	13.9	59.8	61.9	61.3	88.8	91.7	92.7	42
4.2	4.2	4.2	19.5	20.9	21.5	3.5	3.6	3.5	15.4	15.5	15.5	22.7	23.3	23.2	43
27.5	27.2	27.2	113.8	114.6	115.7	20.7	21.4	21.5	90.0	90.2	90.2	85.1	90.1	90.8	44
1.3	1.3	1.3	8.4	8.4	8.6	1.0	1.0	1.0	6.3	6.3	6.3	6.3	6.7	6.3	45
10.0	9.6	9.6	63.0	61.9	63.7	14.2	14.6	14.7	60.2	62.0	61.5	38.6	38.7	39.1	46
35.2	34.9	35.2	222.5	221.1	226.8	44.0	44.8	45.0	169.5	173.0	172.0	165.1	172.4	173.9	47
456.2	444.1	(*)	1,388.2	1,363.9	(*)	577.9	578.8	(*)	1,349.0	1,367.1	(*)	1,025.9	1,056.6	(*)	48
319.7	311.7	312.4	965.8	942.8	964.9	478.1	477.7	478.7	1,031.5	1,034.8	1,035.8	731.5	753.2	757.2	49
284.5	276.8	277.2	743.2	721.8	738.1	434.0	432.9	433.7	862.1	862.0	863.9	566.4	580.9	583.3	50
263.5	255.9	256.3	648.8	627.2	640.7	415.5	414.0	414.7	771.4	769.2	771.2	493.0	502.5	505.1	51
2.9	2.9	2.9	14.9	14.6	14.8	2.5	2.4	2.4	15.5	15.3	15.3	20.3	21.5	21.6	52
12.6	12.3	12.2	79.4	78.7	80.6	15.6	16.0	16.1	70.4	72.0	71.0	59.1	59.7	60.2	53
3.4	3.7	3.7	15.8	15.8	16.0	2.1	2.1	2.0	15.7	16.0	16.0	19.3	21.0	20.9	54
13.8	14.1	14.0	54.7	56.8	57.2	14.3	14.6	14.6	47.3	49.0	49.0	46.8	48.5	48.4	55
3.9	3.8	3.8	21.2	21.2	21.5	5.2	5.3	5.3	18.4	19.1	18.8	29.0	29.4	29.4	56
16.9	16.6	16.6	75.9	76.0	78.7	16.1	16.5	16.5	73.0	74.7	74.7	51.0	54.2	54.1	57
96.5	100.3	100.3	416.3	417.8	427.0	82.0	83.5	83.5	284.9	294.6	294.5	337.5	353.7	353.0	58
3.4	3.5	3.5	13.0	13.2	13.6	2.6	2.8	2.8	10.4	10.6	10.4	9.8	11.7	11.7	59
25.9	26.7	26.6	69.2	69.2	70.0	17.6	18.5	18.5	41.0	42.5	42.2	35.0	35.7	35.7	60
19.7	20.3	20.4	71.4	71.6	73.2	14.6	15.5	15.4	46.5	48.6	48.4	43.1	45.0	44.8	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		
	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P
NORTH CAROLINA—Continued												
1 Raleigh-Durham	223.1	230.3	230.9	(1)	(1)	(1)	10.7	11.6	11.3	36.4	37.4	37.3
NORTH DAKOTA												
2 Fargo-Moorhead	218.8	229.6	226.3	2.6	3.0	3.0	15.1	19.0	15.5	15.9	15.3	14.9
3	57.8	60.6	60.0	(3)	(3)	(3)	3.7	4.7	3.9	5.1	5.0	4.8
OHIO												
4	4,171.4	4,279.2	4,271.6	28.7	29.3	17.1	151.6	163.7	150.5	1,311.0	1,350.1	1,350.4
5 Akron	254.2	258.7	259.6	.3	.3	.3	6.7	7.1	6.5	82.9	83.8	83.9
6 Canton	148.4	152.3	152.4	.8	.8	.8	5.6	5.9	5.6	55.1	56.3	56.3
7 Cincinnati	547.5	559.4	559.3	.4	.4	.4	22.1	23.1	21.6	158.3	161.8	162.2
8 Cleveland	875.5	890.6	891.9	1.4	1.5	1.4	29.1	30.5	28.5	268.9	275.0	274.5
9 Columbus	466.7	478.9	479.5	.7	.7	.7	17.3	18.3	16.9	95.0	98.6	98.0
10 Dayton	339.0	348.6	349.7	.4	.4	.4	11.4	11.7	10.7	106.8	110.0	110.5
11 Toledo	285.2	301.3	301.0	.6	.6	.6	11.3	12.4	11.5	86.3	88.9	88.8
12 Youngtown-Warren	205.7	209.8	208.7	.3	.3	.3	6.3	6.4	5.9	80.1	82.3	82.3
OKLAHOMA												
13	960.2	1,001.2	1,009.0	47.0	51.7	52.3	44.4	47.7	47.4	160.3	167.4	167.5
14 Oklahoma City	324.6	351.2	355.1	10.3	11.6	11.8	15.0	22.3	22.2	42.6	47.3	47.7
15 Tulsa	249.1	257.1	257.8	16.2	16.9	17.0	15.9	15.9	15.9	53.4	54.2	54.0
OREGON												
16	899.0	956.9	951.2	1.5	1.8	1.6	38.7	43.9	41.3	194.4	210.7	206.6
17 Eugene-Springfield	88.5	98.9	97.4	(1)	(1)	(1)	3.6	5.1	4.6	18.9	20.4	20.2
18 Jackson County	-	-	-	-	-	-	-	-	-	7.2	7.9	7.3
19 Portland	469.2	490.2	492.8	(1)	(1)	(1)	19.6	19.7	19.0	95.5	100.5	101.8
20 Salem	72.0	78.9	75.7	(1)	(1)	(1)	3.7	4.3	4.0	10.6	14.3	11.7
PENNSYLVANIA												
21	4,515.8	4,579.5	4,521.0	49.0	48.2	20.4	173.0	195.2	172.9	1,321.0	1,334.7	1,331.6
22 Allentown-Bethlehem-Easton	257.3	258.1	257.7	(1)	(1)	(1)	8.8	9.6	9.2	106.9	107.7	107.7
23 Altoona	51.2	52.7	52.9	(1)	(1)	(1)	2.0	2.4	2.2	12.6	13.0	13.2
24 Delaware Valley ¹¹	1,513.9	1,517.4	1,516.3	(1)	(1)	(1)	48.0	52.2	49.2	380.9	379.6	379.2
25 Erie	110.3	113.1	112.7	(1)	(1)	(1)	2.8	3.4	3.0	42.1	44.3	44.0
26 Harrisburg	204.2	205.5	205.7	(1)	(1)	(1)	8.9	8.2	7.6	39.0	39.7	39.8
27 Johnstown	89.6	88.1	79.7	9.5	8.9	1.5	3.1	4.5	4.0	21.8	19.2	18.7
28 Lancaster	135.3	141.4	140.6	(1)	(1)	(1)	6.9	6.8	6.6	53.7	57.0	56.8
29 Northeast Pennsylvania	228.4	232.1	230.2	1.1	1.3	1.3	12.6	14.1	11.5	67.7	69.9	70.5
30 Philadelphia SMSA	1,810.5	1,819.0	1,821.7	(1)	(1)	(1)	60.2	64.5	61.0	445.4	448.1	447.8
31 Philadelphia City ¹²	810.5	804.3	801.6	(1)	(1)	(1)	16.4	16.8	15.7	160.1	160.2	160.2
32 Pittsburgh	901.5	907.6	897.6	11.8	11.8	5.0	40.3	47.2	41.6	242.8	239.5	239.6
33 Reading	132.2	133.9	134.5	(1)	(1)	(1)	4.1	4.8	4.8	51.2	52.0	52.5
34 Scranton ¹³	82.1	82.6	82.4	(1)	(1)	(1)	2.6	2.9	2.4	25.7	26.3	26.9
35 Wilkes-Barre-Hazleton ¹⁴	121.4	123.6	121.8	1.0	1.2	1.1	8.9	9.9	7.9	37.6	39.2	39.1
36 Williamsport	44.8	46.6	45.9	(1)	(1)	(1)	1.2	1.7	1.5	17.3	17.8	17.2
37 York	139.6	143.6	143.8	(1)	(1)	(1)	6.0	6.5	6.2	58.0	60.3	60.2
RHODE ISLAND												
38	377.3	381.9	385.7	(1)	(1)	(1)	12.5	13.3	12.4	127.7	129.4	130.7
39 Providence-Warwick-Pawtucket	389.9	394.9	398.3	(1)	(1)	(1)	12.8	13.8	12.9	142.7	144.7	146.1
SOUTH CAROLINA												
40	1,060.6	1,092.6	1,097.0	1.8	1.8	1.8	61.3	61.2	61.2	373.6	380.1	379.2
41 Charleston-North Charleston	124.1	128.8	130.0	(1)	(1)	(1)	9.6	10.8	11.0	17.7	18.2	18.2
42 Columbia	152.6	162.6	163.9	(1)	(1)	(1)	6.9	7.2	7.3	22.8	24.0	23.7
43 Greenville-Spartanburg	233.9	235.3	236.0	(1)	(1)	(1)	12.5	12.8	12.8	101.4	100.2	100.1
SOUTH DAKOTA												
44	220.7	229.0	227.2	2.5	2.7	2.7	10.6	13.4	12.1	23.0	23.6	23.5
45 Rapid City ⁵	25.4	27.3	26.9	(3)	(3)	(3)	2.1	2.7	2.6	2.3	2.6	2.5
46 Sioux Falls ⁵	48.3	50.1	50.3	(3)	(3)	(3)	2.6	2.9	2.8	6.9	7.1	7.2
TENNESSEE												
47	1,614.1	1,686.3	1,694.2	9.2	9.3	9.1	77.8	85.8	81.4	494.7	522.7	524.7
48 Chattanooga	162.0	165.0	165.8	1.1	1.0	1.0	6.3	6.8	6.7	55.6	57.0	56.6
49 Knoxville	181.0	187.2	187.5	1.7	1.7	1.7	10.0	12.6	12.3	50.4	51.7	52.0
50 Memphis	333.1	341.0	341.5	.1	.2	.2	15.8	16.9	16.3	58.1	60.7	60.7
51 Nashville-Davidson	323.9	330.7	333.6	(1)	(1)	(1)	17.4	17.6	17.5	78.8	80.4	80.9
TEXAS												
52	4,785.1	4,935.4	4,969.1	142.5	157.3	158.2	317.3	331.3	327.2	868.1	905.6	910.5
53 Amarillo	67.3	69.0	69.6	(1)	(1)	(1)	4.2	4.8	4.8	8.9	8.6	8.7
54 Austin	176.6	186.2	187.7	(1)	(1)	(1)	8.6	9.1	9.2	18.2	20.0	20.1
55 Beaumont-Port Arthur-Orange	138.0	137.9	137.4	(1)	(1)	(1)	14.0	14.3	13.3	41.6	41.7	41.6
56 Corpus Christi	103.4	104.3	104.7	3.7	3.8	3.8	10.8	11.0	11.0	12.4	12.2	12.3
57 Dallas-Fort Worth	1,144.7	1,181.8	1,187.6	12.7	13.3	13.4	50.3	50.3	49.5	248.9	258.8	259.6
58 El Paso	135.3	137.4	138.0	(1)	(1)	(1)	6.4	6.8	6.8	28.7	29.3	29.5
59 Galveston-Texas City	68.0	72.9	72.5	(1)	(1)	(1)	7.5	9.8	9.6	11.8	11.7	11.6
60 Houston	1,118.2	1,189.2	1,193.4	45.8	48.8	49.1	113.6	125.9	125.1	187.4	193.1	193.1
61 Lubbock	82.0	86.8	85.7	(1)	(1)	(1)	4.6	4.7	4.4	12.1	14.7	14.3
62 San Antonio	331.9	336.5	339.5	1.7	1.8	1.8	18.1	19.7	20.0	41.1	43.2	43.3

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			
DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	
9.8	10.1	10.1	44.5	45.0	46.5	13.3	13.8	13.8	46.3	48.5	48.2	62.1	63.9	63.7	1
13.2	13.7	13.8	63.2	66.4	67.1	9.3	9.9	10.0	41.7	42.9	42.9	57.8	59.4	59.1	2
3.6	3.6	3.6	18.2	19.2	19.5	3.3	3.5	3.6	12.0	12.5	12.4	11.9	12.1	12.2	3
215.0	217.8	218.6	932.4	938.7	957.0	177.5	182.2	183.2	713.1	747.0	741.5	642.1	650.5	653.3	4
13.9	14.4	14.3	57.7	58.3	59.7	8.6	8.9	9.0	42.1	44.5	44.1	42.0	41.3	41.9	5
7.0	7.4	7.3	32.4	32.8	33.4	5.2	5.5	5.6	25.1	25.6	25.4	17.2	17.9	18.0	6
31.0	31.3	31.4	129.4	131.9	134.1	28.6	28.9	29.0	99.9	103.9	103.4	77.9	78.1	77.3	7
46.9	45.9	46.1	204.3	206.2	210.1	44.3	45.5	45.7	162.0	167.7	166.7	118.5	118.4	118.8	8
22.6	23.0	23.3	115.2	118.1	120.8	30.8	32.0	32.2	85.2	89.9	89.0	99.9	98.2	98.7	9
12.3	12.7	12.8	73.0	73.3	74.8	11.2	11.6	11.7	61.2	64.4	63.9	62.7	64.5	65.0	10
18.8	19.8	19.9	67.7	68.7	69.8	9.3	9.5	9.5	52.5	55.8	55.8	38.7	45.5	45.1	11
9.6	9.6	9.6	45.1	45.6	46.5	6.6	6.6	6.7	32.9	33.8	32.2	24.8	25.1	25.4	12
57.7	59.3	59.4	237.4	240.8	245.8	47.4	49.7	50.0	157.4	165.7	166.2	211.3	218.9	220.4	13
19.7	20.4	20.5	83.0	86.7	89.0	20.3	22.2	22.4	53.7	57.0	57.4	80.0	83.7	84.1	14
18.6	19.5	19.5	60.1	60.2	60.6	13.1	13.4	13.5	45.9	48.6	48.7	25.9	28.4	28.6	15
52.0	54.8	54.5	220.9	231.8	233.6	53.5	58.5	58.8	153.4	165.2	165.4	184.6	190.2	189.4	16
4.5	4.9	4.9	22.6	24.5	24.6	4.2	4.7	4.7	14.9	17.6	16.8	19.8	21.7	21.6	17
32.2	33.3	33.2	121.2	126.4	128.3	34.5	37.5	37.5	91.3	95.5	95.8	74.9	77.3	77.2	18
2.5	2.6	2.6	15.4	16.4	16.4	4.2	4.6	4.6	11.5	11.9	12.0	24.1	24.8	24.4	20
256.9	255.2	253.3	949.0	948.6	955.2	211.8	218.4	218.8	842.1	866.9	861.2	713.0	712.3	707.6	21
13.1	13.4	13.5	46.6	45.6	45.8	7.7	7.9	7.8	38.4	39.2	39.1	35.8	34.7	34.6	22
8.1	8.0	8.0	11.9	12.4	12.7	1.4	1.4	1.4	7.9	8.0	8.0	7.3	7.5	7.4	23
82.8	81.8	82.7	321.1	318.8	323.2	96.9	97.9	97.7	342.2	349.5	348.6	242.0	237.6	235.7	24
5.3	5.3	5.3	21.9	21.4	21.5	4.4	4.6	4.6	18.6	18.8	18.8	15.2	15.3	15.5	25
14.9	14.6	14.6	42.3	41.5	42.1	11.1	11.4	11.5	32.9	34.9	34.7	55.1	55.2	55.4	26
5.7	5.7	5.7	17.1	16.7	16.7	3.7	4.0	4.0	14.6	15.1	15.1	14.1	14.0	14.0	27
5.8	6.3	6.3	29.5	30.5	30.5	4.2	4.4	4.4	21.3	21.8	21.6	13.9	14.6	14.4	28
11.6	11.5	11.4	49.8	48.9	48.9	8.8	9.1	9.4	39.0	39.6	39.2	37.8	37.7	38.0	29
97.6	96.5	97.4	403.5	401.3	408.0	110.8	112.0	111.9	395.0	403.8	403.1	298.0	292.8	292.5	30
56.6	55.0	55.7	158.9	156.7	157.8	65.0	64.3	64.4	200.8	204.0	202.6	152.7	147.3	145.2	31
58.0	57.8	57.5	205.7	205.0	206.8	41.3	41.8	41.9	180.2	181.5	181.6	121.4	123.0	123.6	32
6.5	6.4	6.5	24.8	24.6	25.1	5.2	5.4	5.4	21.1	21.6	21.3	19.3	19.1	18.9	33
4.3	4.0	4.0	18.8	18.5	18.4	3.1	3.2	3.2	16.1	16.3	16.1	11.5	11.4	11.4	34
5.9	5.9	5.9	26.4	25.9	26.0	4.9	5.1	5.2	17.0	16.9	16.7	19.7	19.5	19.9	35
2.0	2.0	2.0	9.0	9.1	9.3	1.8	1.9	1.9	7.7	8.0	8.0	5.8	6.1	6.0	36
6.3	6.0	5.9	29.0	29.8	30.6	3.3	3.6	3.6	19.9	20.6	20.6	17.1	16.8	16.7	37
13.9	13.4	13.4	77.8	78.0	80.6	18.3	18.8	19.1	69.9	72.0	71.8	57.2	57.0	57.7	38
13.7	13.3	13.2	80.1	79.9	82.1	18.2	18.7	19.0	68.5	70.5	70.2	53.9	54.0	54.8	39
44.0	46.4	47.3	199.2	207.0	212.6	40.1	41.0	41.4	132.7	140.0	139.3	207.9	215.1	214.2	40
7.1	6.9	7.4	26.7	27.0	27.5	4.9	4.9	5.0	18.5	19.9	20.0	39.6	41.1	40.9	41
8.3	8.5	8.7	32.5	35.8	36.8	11.7	12.8	12.8	22.5	23.3	23.3	47.9	51.0	51.3	42
9.2	9.5	9.4	43.1	42.8	43.6	8.1	8.1	8.1	31.8	32.7	32.7	27.8	29.2	29.3	43
12.2	12.4	12.3	61.4	62.9	63.1	9.7	10.0	10.0	44.6	47.9	47.2	56.7	56.1	56.3	44
1.6	1.7	1.7	7.4	7.7	7.6	1.3	1.2	1.2	5.2	5.9	5.9	5.5	5.5	5.4	45
4.1	4.1	4.1	15.7	15.4	15.5	2.6	2.8	2.8	10.2	11.4	11.3	6.2	6.4	6.6	46
74.9	76.6	76.1	357.3	363.5	373.6	71.7	72.7	72.9	242.6	252.3	250.7	285.9	303.4	305.7	47
6.3	6.2	6.2	31.3	31.1	31.9	8.2	8.0	7.9	24.7	25.3	25.4	28.5	29.6	30.1	48
7.4	7.5	7.5	38.9	39.2	39.6	6.8	7.0	7.0	26.8	27.6	27.5	39.0	39.9	39.9	49
22.2	22.5	22.6	90.1	90.6	91.8	18.4	18.4	18.4	63.8	66.0	65.5	64.6	65.7	66.0	50
16.7	17.6	17.4	72.6	74.8	77.2	20.1	19.9	20.0	63.1	62.5	62.4	55.2	57.9	58.2	51
294.1	304.4	305.1	1,205.9	1,207.0	1,235.4	259.9	270.0	270.6	830.6	876.5	876.4	866.7	883.3	885.7	52
6.4	6.7	6.8	20.7	20.8	21.3	3.2	3.3	3.3	12.6	12.7	12.7	11.3	12.1	12.0	53
5.5	5.9	5.9	36.2	38.3	39.3	9.8	9.9	10.1	29.1	31.3	31.8	69.2	71.3	71.3	54
10.2	9.9	9.8	28.8	28.1	28.8	4.9	5.2	5.2	20.4	20.2	20.2	18.1	18.5	18.5	55
5.5	5.8	5.8	26.8	26.5	26.7	4.8	5.3	5.3	16.6	17.1	17.2	22.8	22.6	22.6	56
76.0	79.0	79.1	320.8	327.4	332.9	82.7	88.4	88.4	198.7	207.3	207.1	154.6	157.3	157.6	57
9.6	9.0	9.0	34.4	34.8	35.4	6.1	6.5	6.6	21.6	22.9	22.6	28.5	28.1	28.1	58
5.6	6.0	6.1	12.0	12.9	13.1	4.3	4.6	4.6	10.3	10.7	10.7	16.5	17.2	17.2	59
79.7	84.3	84.8	282.1	301.6	305.5	63.3	66.1	66.7	214.9	232.1	231.7	131.4	137.3	137.4	60
4.7	4.9	4.9	25.1	26.1	26.3	3.7	3.9	3.9	14.8	15.2	14.7	17.0	17.3	17.2	61
14.4	14.8	14.8	83.4	82.0	84.7	21.5	22.9	22.9	61.6	62.5	62.7	90.1	89.2	89.3	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		
	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P
TEXAS—Continued												
1 Waco	61.4	63.5	63.7	(1)	(1)	(1)	2.8	3.2	3.2	14.2	14.8	14.7
2 Wichita Falls	46.2	47.7	48.0	2.2	2.4	2.3	2.8	2.8	2.8	7.4	8.4	8.4
UTAH												
3 Salt Lake City—Ogden	477.5	(*)	(*)	14.6	(*)	(*)	28.3	(*)	(*)	72.4	(*)	(*)
4	341.1	(*)	(*)	6.8	(*)	(*)	19.4	(*)	(*)	48.1	(*)	(*)
VERMONT												
5 Burlington	172.2	179.0	180.6	.7	.7	.7	7.4	9.0	7.9	41.5	44.7	44.5
6 Springfield	45.2	47.7	47.8	-	-	-	-	-	-	10.2	11.0	11.0
7	12.5	13.3	13.6	-	-	-	-	-	-	5.1	5.6	5.7
VIRGINIA												
8 Bristol	1,893.1	1,954.4	1,951.1	22.2	22.7	12.3	109.8	117.1	114.0	395.5	407.7	407.3
9 Lynchburg	24.9	25.1	25.4	(1)	(1)	(1)	.9	1.0	1.0	8.6	8.5	8.7
10 Newport News—Hampton	63.3	64.7	64.7	(1)	(1)	(1)	2.8	3.1	3.0	27.6	28.4	28.4
11 Norfolk—Virginia Beach—Portsmouth	132.5	136.4	136.7	(1)	(1)	(1)	5.3	5.8	5.7	33.3	35.3	35.6
12 Northern Virginia	256.3	260.9	262.0	(1)	(1)	(1)	14.9	15.6	15.2	27.1	28.0	27.7
13 Petersburg—Colonial Hts.—Hopewell	370.4	381.3	383.7	.3	.4	.4	23.7	25.4	24.5	14.0	14.4	14.6
14 Richmond	44.5	44.8	45.0	(1)	(1)	(1)	2.3	2.4	2.3	12.8	12.6	12.5
15 Roanoke	291.6	303.0	304.0	.3	.4	.4	15.4	18.3	18.4	52.2	53.0	53.1
16	98.8	99.9	98.8	.2	.2	.2	5.0	5.6	4.9	21.3	21.5	21.3
WASHINGTON												
17 Seattle—Everett	1,298.7	1,357.9	1,374.2	2.1	2.2	2.1	70.7	82.2	79.8	248.0	252.2	266.3
18 Spokane	608.0	629.9	651.7	(1)	(1)	(1)	27.5	34.8	34.2	120.2	114.0	131.9
19 Tacoma	109.8	114.9	114.4	(1)	(1)	(1)	5.1	6.4	5.5	15.0	15.7	15.7
20	120.9	126.5	126.8	(1)	(1)	(1)	5.6	6.5	6.1	19.9	21.0	21.0
WEST VIRGINIA												
21 Charleston	605.5	623.8	560.4	70.5	75.9	19.8	35.1	37.7	33.1	125.1	126.3	125.4
22 Huntington—Ashland	103.9	103.7	98.9	6.1	6.2	1.5	6.5	6.1	5.9	19.2	19.0	18.9
23 Parkersburg—Marietta	98.3	95.9	94.8	.8	.8	.6	5.8	5.3	5.3	28.6	26.7	26.8
24 Wheeling	52.5	51.9	51.7	.4	.4	.4	2.6	2.3	2.2	16.6	15.8	15.5
25	64.1	64.9	57.8	8.4	8.4	1.7	2.7	2.2	2.2	13.1	14.6	14.0
WISCONSIN												
26 Appleton—Oshkosh	1,758.8	1,835.2	1,832.3	2.2	2.4	2.0	65.8	82.3	77.5	509.9	532.0	531.3
27 Green Bay	108.9	110.8	110.8	(1)	(1)	(1)	5.1	4.9	4.6	39.9	42.5	42.6
28 Kenosha	69.1	71.5	71.8	(1)	(1)	(1)	3.4	3.8	3.7	19.8	21.1	20.9
29 La Crosse	39.0	40.8	41.1	(1)	(1)	(1)	.9	.9	.9	14.5	16.0	16.2
30 Madison	37.2	38.7	38.6	(1)	(1)	(1)	1.2	1.4	1.3	9.1	9.1	9.2
31 Milwaukee	148.5	154.9	154.1	(1)	(1)	(1)	5.8	7.0	6.6	17.3	18.0	18.0
32 Racine	619.6	634.5	635.1	(1)	(1)	(1)	20.4	23.7	23.6	197.5	203.0	203.3
33	64.4	66.7	66.8	(1)	(1)	(1)	1.7	1.9	1.8	27.1	27.7	27.9
WYOMING												
34 Casper	157.1	172.6	172.7	22.2	25.7	26.1	14.7	17.6	16.5	8.5	8.8	8.7
35 Cheyenne	28.0	30.4	30.6	5.1	5.5	5.6	2.2	2.6	2.5	1.6	1.8	1.8
36	23.9	24.8	25.0	(1)	(1)	(1)	1.4	1.7	1.6	1.5	1.4	1.4

1 Combined with services.
 2 Based on the 1967 Standard Industrial Classification Manual.
 3 Combined with construction.
 4 Area included in Chicago-Gary Standard Consolidated Statistical Area.
 5 Revised to 1977 benchmark; not strictly comparable with previously published data.
 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.
 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			
DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	
3.0	3.0	3.0	14.4	14.8	15.1	3.5	3.6	3.6	12.8	13.3	13.2	10.7	10.8	10.9	1
2.2	2.3	2.3	11.9	11.9	12.1	2.0	2.1	2.1	6.8	6.9	6.9	10.9	10.9	11.1	2
28.3	(*)	(*)	119.9	(*)	(*)	21.2	(*)	(*)	79.2	(*)	(*)	113.7	(*)	(*)	3
22.4	(*)	(*)	89.1	(*)	(*)	17.5	(*)	(*)	53.1	(*)	(*)	84.6	(*)	(*)	4
8.3	8.4	8.5	36.5	37.6	38.2	6.8	7.1	7.1	39.3	39.1	41.5	32.0	32.6	32.4	5
2.0	2.0	2.1	10.0	10.2	10.3	-	-	-	9.7	10.1	10.2	-	-	-	6
.7	.8	.8	2.0	2.1	2.1	-	-	-	2.4	2.5	2.8	-	-	-	7
106.4	107.7	108.4	411.8	412.8	422.3	87.8	91.3	91.6	314.9	327.6	327.0	444.7	467.5	468.2	8
1.0	.9	.9	6.4	6.2	6.3	.8	.8	.8	3.0	3.1	3.1	4.2	4.6	4.6	9
2.7	2.5	2.5	10.7	10.9	11.0	2.7	2.8	2.8	8.4	8.7	8.7	8.4	8.3	8.3	10
4.3	4.7	4.6	25.3	24.7	25.2	4.2	4.3	4.3	23.3	24.1	24.0	36.8	37.5	37.3	11
17.7	17.0	17.9	63.9	64.7	65.5	13.1	12.9	12.9	43.8	44.8	44.8	75.8	77.9	78.0	12
26.0	26.4	26.5	91.9	92.4	94.9	21.7	23.9	24.0	84.4	88.2	88.3	108.4	110.2	110.5	13
1.4	1.3	1.3	8.2	8.2	8.4	1.1	1.1	1.1	5.0	5.2	5.2	13.7	14.0	14.2	14
18.1	18.3	18.3	69.7	70.6	71.6	22.2	23.1	23.1	48.9	50.7	50.4	64.8	68.6	68.7	15
10.1	9.9	9.4	24.9	24.0	24.3	5.4	5.5	5.5	17.8	17.6	17.5	14.1	15.6	15.7	16
75.9	78.5	78.5	321.2	333.3	338.2	69.4	75.5	75.8	233.1	248.2	248.9	278.3	285.8	284.6	17
43.1	45.0	45.0	154.1	159.4	162.8	41.7	45.3	45.7	112.1	120.1	120.4	109.3	111.3	111.7	18
7.3	7.6	7.5	31.4	31.6	32.3	6.9	7.6	7.6	24.2	25.5	25.4	19.9	20.5	20.4	19
5.8	5.9	6.0	29.8	29.5	30.3	5.7	6.0	6.0	24.7	26.0	26.1	29.4	31.6	31.3	20
39.3	41.1	37.9	123.3	123.9	126.3	18.3	18.9	18.9	84.9	87.4	86.4	109.1	112.6	112.6	21
8.4	8.5	8.0	23.8	23.8	24.2	4.4	4.5	4.5	17.1	17.2	17.2	18.3	18.5	18.6	22
9.3	9.4	8.3	20.3	20.2	20.4	3.3	3.4	3.4	13.3	13.0	13.0	16.9	17.0	17.1	23
2.3	2.4	2.2	11.7	11.7	11.8	1.7	1.8	1.8	8.0	7.8	7.9	9.1	9.8	9.8	24
3.7	3.7	3.6	14.0	13.7	13.8	2.4	2.5	2.5	12.2	12.3	12.3	7.6	7.6	7.7	25
83.5	86.5	86.7	410.1	425.1	428.6	78.3	80.8	81.2	315.8	328.7	329.4	293.2	297.2	295.5	26
4.1	4.0	4.0	23.2	23.0	23.2	4.3	4.4	4.4	17.2	17.4	17.4	15.1	14.7	14.8	27
4.5	4.5	4.4	16.5	16.4	16.7	2.1	2.4	2.4	13.0	13.3	13.4	9.9	10.1	10.3	28
1.5	1.6	1.5	8.3	8.2	8.4	.8	.8	.8	7.1	7.2	7.4	6.0	5.9	5.8	29
2.1	2.2	2.2	10.0	10.4	10.5	.9	1.0	1.0	7.8	8.2	8.2	6.0	6.3	6.3	30
5.4	5.4	5.4	33.3	34.6	35.1	9.5	10.4	10.4	25.4	26.2	26.1	51.8	53.4	52.6	31
31.0	32.5	33.0	139.9	139.2	140.4	33.4	33.5	33.6	120.8	126.2	125.4	76.7	76.4	75.8	32
2.3	2.4	2.4	12.5	13.0	13.1	1.7	1.9	1.9	10.3	10.8	10.8	8.8	9.1	9.0	33
12.7	13.3	13.2	35.2	38.5	38.9	5.4	6.0	6.0	21.7	23.3	23.4	36.7	39.4	39.9	34
2.1	2.2	2.2	7.2	7.8	7.9	1.2	1.4	1.4	4.0	4.3	4.4	4.6	4.8	4.8	35
3.2	3.6	3.7	5.6	6.1	6.2	1.3	1.3	1.3	4.2	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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
-	TOTAL PRIVATE	\$182.73	\$179.48	\$195.30	\$196.38	\$193.09	\$5.02	\$5.07	\$5.41	\$5.41	\$5.47
-	MINING	293.23	286.62	320.14	291.04	294.29	6.71	6.76	7.13	6.66	6.86
10	METAL MINING	287.70	286.62	308.45	316.50	-	7.00	6.94	7.56	7.59	-
101	Iron ores	317.09	311.95	343.04	319.35	-	7.34	7.34	7.49	7.77	-
102	Copper ores	275.12	281.25	295.62	305.37	-	7.24	7.23	7.80	7.85	-
11,12	COAL MINING	337.43	329.94	381.47	273.84	-	8.23	8.29	8.65	8.15	-
12	Bituminous coal and lignite mining	339.07	330.70	382.79	272.41	-	8.27	8.33	8.68	8.23	-
13	OIL AND GAS EXTRACTION	277.94	274.21	296.50	298.17	-	5.99	6.08	6.39	6.44	-
131,2	Crude petroleum and natural gas fields	283.41	299.81	304.08	311.83	-	6.70	6.94	7.24	7.32	-
138	Oil and gas field services	274.83	262.66	293.79	292.19	-	5.69	5.71	6.07	6.10	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	248.04	227.93	269.54	260.13	-	5.65	5.67	6.03	5.98	-
142	Crushed and broken stone	233.20	203.84	262.74	248.91	-	5.30	5.35	5.80	5.67	-
-	CONTRACT CONSTRUCTION	289.98	269.84	299.94	300.30	279.73	7.88	7.96	8.24	8.25	8.35
15	GENERAL BUILDING CONTRACTORS	280.64	258.74	292.05	289.00	-	7.71	7.77	8.09	8.05	-
16	HEAVY CONSTRUCTION CONTRACTORS	273.79	243.53	288.03	284.87	-	7.13	7.10	7.54	7.38	-
161	Highway and street construction	263.12	233.91	274.36	268.19	-	6.87	6.78	7.22	6.93	-
162	Heavy construction, nec	281.44	248.98	299.90	296.45	-	7.31	7.28	7.81	7.70	-
17	SPECIAL TRADE CONTRACTORS	301.86	284.39	310.54	312.53	-	8.27	8.34	8.65	8.73	-
171	Plumbing, heating, air conditioning	322.18	313.97	328.10	339.09	-	8.39	8.44	8.82	8.90	-
172	Painting, paper hanging, decorating	277.39	254.99	274.25	275.52	-	7.77	7.87	8.09	8.20	-
173	Electrical work	350.10	333.60	356.63	362.71	-	9.07	9.09	9.51	9.52	-
174	Masonry, stonework, and plastering	256.10	228.79	284.38	265.12	-	8.13	8.23	8.54	8.58	-
176	Roofing and sheetmetal work	246.21	213.85	251.46	237.76	-	7.67	7.53	7.69	7.77	-
-	MANUFACTURING	220.05	212.94	235.89	241.67	232.06	5.42	5.46	5.81	5.88	5.92
10,24,25, 32-39	DURABLE GOODS	238.71	229.50	256.47	263.55	251.77	5.78	5.81	6.21	6.29	6.31
20-23,26-31	NONDURABLE GOODS	194.53	189.59	206.84	209.35	204.52	4.90	4.95	5.21	5.26	5.34
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	251.68	244.82	260.58	271.41	264.62	6.05	6.06	6.45	6.54	6.55
192	Ammunition, except for small arms	256.27	251.25	257.91	272.16	(*)	6.19	6.25	6.63	6.72	(*)
1925	Complete guided missiles	287.54	279.61	289.64	301.90	-	6.83	6.87	7.37	7.51	-
1929	Ammunition, exc. for small arms, nec.	200.10	200.04	209.50	222.63	-	4.99	6.09	5.47	5.43	-
24	LUMBER AND WOOD PRODUCTS	197.15	191.57	208.28	210.25	205.59	4.88	4.95	5.22	5.23	5.34
242	Sawmills and planing mills	197.83	193.55	209.20	214.35	(*)	4.79	4.90	5.14	5.19	(*)
2421	Sawmills and planing mills, general	207.00	203.26	219.50	224.26	-	5.00	5.12	5.38	5.43	-
243	Millwork, plywood and related products	203.11	200.07	215.74	218.16	(*)	5.04	5.13	5.38	5.40	(*)
2431	Millwork	193.43	188.44	205.27	207.08	-	4.86	4.92	5.21	5.19	-
2432	Veneer and plywood	220.37	220.59	239.29	245.28	-	5.31	5.42	5.78	5.84	-
244	Wooden containers	139.01	135.36	148.22	152.49	(*)	3.62	3.76	3.84	3.90	(*)
2441,2	Wooden boxes, shooks, and crates	138.13	135.77	142.50	148.22	-	3.56	3.73	3.75	3.82	-
249	Miscellaneous wood products	161.99	155.42	174.47	175.74	(*)	4.07	4.09	4.34	4.35	(*)
25	FURNITURE AND FIXTURES	162.31	151.06	175.03	180.10	167.93	4.13	4.15	4.42	4.48	4.49
251	Household furniture	152.10	139.59	164.25	170.43	(*)	3.91	3.91	4.19	4.25	(*)
2511	Wood household furniture	146.10	131.39	157.19	161.19	-	3.68	3.66	3.92	3.98	-
2512	Upholstered household furniture	160.44	146.72	173.05	184.46	-	4.20	4.18	4.53	4.60	-
2515	Mattresses and bedsprings	162.87	164.71	183.84	186.53	-	4.45	4.55	4.80	4.82	-
252	Office furniture	196.82	184.00	210.08	213.35	-	4.72	4.73	4.99	5.02	-
254	Partitions and fixtures	199.30	192.41	212.53	212.27	-	4.97	5.05	5.30	5.32	-
253,9	Other furniture and fixtures	179.27	173.25	197.69	199.80	(*)	4.55	4.62	4.93	5.02	(*)
32	STONE, CLAY, AND GLASS PRODUCTS	225.91	214.50	248.89	250.14	237.61	5.47	5.50	5.94	5.97	5.97
321	Flat glass	291.54	294.20	314.50	333.59	-	6.78	6.89	7.56	7.74	-
322	Glass and glassware, pressed or blown	229.04	225.83	251.53	256.47	(*)	5.60	5.66	6.18	6.21	(*)
3221	Glass containers	237.72	234.67	261.76	268.55	-	5.77	5.78	6.40	6.44	-
3229	Pressed and blown glass, nec	215.74	211.69	236.93	238.12	-	5.34	5.47	5.85	5.87	-
324	Cement, hydraulic	309.92	308.10	345.98	343.16	336.20	7.45	7.46	8.16	8.19	8.18
325	Structural clay products	182.10	173.16	197.60	198.43	(*)	4.42	4.44	4.75	4.77	(*)
3251	Brick and structural clay tile	162.66	152.10	178.08	178.46	-	3.91	3.91	4.25	4.29	-
326	Pottery and related products	189.37	179.63	202.36	207.88	-	4.77	4.79	5.11	5.21	-
327	Concrete, gypsum, and plaster products	225.96	201.32	254.48	247.51	(*)	5.38	5.34	5.85	5.81	(*)
328,9	Other stone and nonmetallic mineral products	220.04	212.61	239.04	243.28	(*)	5.38	5.41	5.76	5.82	(*)
3291	Abrasive products	215.74	207.19	237.30	241.65	-	5.38	5.34	5.65	5.74	-

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
—	TOTAL PRIVATE	36.4	35.4	36.1	36.3	35.3	—	—	—	—	—
—	MINING	43.7	42.4	44.9	43.7	42.9	—	—	—	—	—
10	METAL MINING	41.1	41.3	40.8	41.7	—	—	—	—	—	—
101	Iron ores	43.2	42.5	45.8	41.1	—	—	—	—	—	—
102	Copper ores	38.0	38.9	37.9	38.9	—	—	—	—	—	—
11,12	COAL MINING	41.0	39.8	44.1	33.6	—	—	—	—	—	—
12	Bituminous coal and lignite mining	41.0	39.7	44.1	33.1	—	—	—	—	—	—
13	OIL AND GAS EXTRACTION	46.4	45.1	46.4	46.3	—	—	—	—	—	—
131,2	Crude petroleum and natural gas fields	42.3	43.2	42.0	42.6	—	—	—	—	—	—
138	Oil and gas field services	48.3	46.0	48.4	47.9	—	—	—	—	—	—
14	NONMETALLIC MINERALS, EXCEPT FUELS	43.9	40.2	44.7	43.5	—	—	—	—	—	—
142	Crushed and broken stone	44.0	38.1	45.3	43.9	—	—	—	—	—	—
—	CONTRACT CONSTRUCTION	36.8	33.9	36.4	36.4	33.5	—	—	—	—	—
15	GENERAL BUILDING CONTRACTORS ..	36.4	33.3	36.1	35.9	—	—	—	—	—	—
16	HEAVY CONSTRUCTION CONTRACTORS ..	38.4	34.3	38.2	38.6	—	—	—	—	—	—
161	Highway and street construction	38.3	34.5	38.0	38.7	—	—	—	—	—	—
162	Heavy construction, nec	38.5	34.2	38.4	38.5	—	—	—	—	—	—
17	SPECIAL TRADE CONTRACTORS	36.5	34.1	35.9	35.8	—	—	—	—	—	—
171	Plumbing, heating, air conditioning	38.4	37.2	37.2	38.1	—	—	—	—	—	—
172	Painting, paper hanging, decorating	35.7	32.4	33.9	33.6	—	—	—	—	—	—
173	Electrical work	38.6	36.7	37.5	38.1	—	—	—	—	—	—
174	Masonry, stonework, and plastering	31.5	27.8	33.3	30.9	—	—	—	—	—	—
178	Roofing and sheet metal work	32.1	28.4	32.7	30.6	—	—	—	—	—	—
—	MANUFACTURING	40.6	39.0	40.6	41.1	39.2	3.3	3.0	3.6	3.7	3.2
19,24,25, 32-39	DURABLE GOODS	41.3	39.5	41.3	41.9	39.9	3.5	3.1	3.8	4.0	3.4
20-23,26-31	NONDURABLE GOODS	39.7	38.3	39.7	39.8	38.3	3.1	2.8	3.2	3.2	2.9
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	41.6	40.4	40.4	41.5	40.4	2.9	2.9	2.9	3.2	—
192	Ammunition, except for small arms	41.4	40.2	38.9	40.5	(*)	2.8	2.7	2.4	2.9	—
1925	Complete guided missiles	42.1	40.7	39.3	40.2	—	—	—	—	—	—
1929	Ammunition, exc. for small arms, nec ..	40.1	39.3	38.3	41.0	—	—	—	—	—	—
24	LUMBER AND WOOD PRODUCTS	40.4	38.7	39.9	40.2	38.5	3.6	3.2	3.8	3.8	—
242	Sawmills and planing mills	41.3	39.5	40.7	41.3	(*)	4.3	3.9	4.4	4.5	—
2421	Sawmills and planing mills, general ..	41.4	39.7	40.8	41.3	—	—	—	—	—	—
243	Millwork, plywood and related products ..	40.3	39.0	40.1	40.4	(*)	3.3	3.0	3.5	3.6	—
2431	Millwork	39.8	38.3	39.4	39.9	—	—	—	—	—	—
2432	Veneer and plywood	41.5	40.7	41.4	42.0	—	—	—	—	—	—
244	Wooden containers	38.4	36.0	38.6	39.1	(*)	2.2	1.9	2.6	2.9	—
2441,2	Wooden boxes, shooks, and crates	38.8	36.4	38.0	38.8	—	—	—	—	—	—
249	Miscellaneous wood products	39.8	38.0	40.2	40.4	(*)	3.4	3.0	3.6	3.6	—
25	FURNITURE AND FIXTURES	39.3	36.4	39.6	40.2	37.4	2.2	1.5	2.7	3.0	—
251	Household furniture	38.9	35.7	39.2	40.1	(*)	2.2	1.4	2.6	2.9	—
2511	Wood household furniture	39.7	35.9	40.1	40.5	—	2.5	1.4	3.1	3.2	—
2512	Upholstered household furniture	38.2	35.1	38.2	40.1	—	—	—	—	—	—
2515	Mattresses and bedsprings	36.6	36.2	38.3	38.7	—	—	—	—	—	—
252	Office furniture	41.7	38.9	42.1	42.5	—	2.9	2.6	3.7	4.1	—
254	Partitions and fixtures	40.1	38.1	40.1	39.9	—	2.4	1.9	2.9	2.8	—
253,9	Other furniture and fixtures	39.4	37.5	40.1	39.8	(*)	1.8	1.3	2.5	2.4	—
32	STONE, CLAY, AND GLASS PRODUCTS ..	41.3	39.0	41.9	41.9	39.8	3.9	3.4	4.8	4.7	—
321	Flat glass	43.0	42.7	41.6	43.1	—	5.7	6.2	6.6	6.3	—
322	Glass and glassware, pressed or blown ..	40.9	39.9	40.7	41.3	(*)	3.9	4.1	4.1	4.0	—
3221	Glass containers	41.2	40.6	40.9	41.7	—	—	—	4.5	4.6	—
3229	Pressed and blown glass, nec	40.4	38.7	40.5	40.6	—	2.6	2.7	3.4	3.2	—
324	Cement, hydraulic	41.6	41.3	42.4	41.9	41.1	2.8	2.9	4.1	4.0	—
325	Structural clay products	41.2	39.0	41.6	41.6	(*)	3.7	3.3	4.4	4.5	—
3251	Brick and structural clay tile	41.6	38.9	41.9	41.6	—	—	—	—	—	—
326	Pottery and related products	39.7	37.5	39.6	39.9	—	2.2	1.9	2.7	2.7	—
327	Concrete, gypsum and plaster products	42.0	37.7	43.5	42.6	(*)	4.7	3.3	6.4	5.8	—
328,9	Other stone and nonmetallic mineral products	40.9	39.3	41.5	41.8	(*)	3.3	3.0	3.8	4.0	—
3291	Abrasive products	40.1	38.8	42.0	42.1	—	—	—	—	—	—

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 hours					Average overtime hours				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
DURABLE GOODS—Continued											
33	PRIMARY METAL INDUSTRIES	40.5	40.0	41.2	41.7	40.8	3.2	3.2	3.8	4.1	—
331	Blast furnace and basic steel products	39.1	39.2	40.0	40.4	(*)	2.1	2.3	2.4	2.7	—
3312	Blast furnaces and steel mills	38.8	39.0	39.6	40.1	—	1.9	2.2	2.2	2.6	—
332	Iron and steel foundries	41.8	40.1	42.2	43.5	(*)	4.6	4.1	5.3	5.9	—
3321	Gray iron foundries	41.9	40.1	42.6	44.3	—	5.2	4.6	5.7	6.6	—
3322	Malleable iron foundries	41.1	38.8	41.2	42.9	—	—	—	—	—	—
3323	Steel foundries	41.8	40.5	41.6	41.8	—	3.8	3.7	4.2	4.5	—
333,4	Nonferrous metals	41.6	41.3	42.4	42.2	(*)	3.2	3.3	4.0	4.0	—
3334	Primary aluminum	41.0	40.6	41.0	40.4	—	—	—	—	—	—
335	Nonferrous rolling and drawing	41.8	41.8	42.4	42.2	41.4	4.4	4.6	5.3	5.2	—
3351	Copper rolling and drawing	41.9	41.2	42.2	43.0	—	—	—	—	—	—
3352	Aluminum rolling and drawing	42.6	42.4	42.7	42.8	—	5.6	5.6	7.2	7.3	—
3357	Nonferrous wire drawing and insulating ..	41.0	41.8	42.2	41.2	—	3.7	4.3	4.5	4.0	—
336	Nonferrous foundries	41.0	39.5	41.2	41.8	(*)	3.3	3.1	3.8	4.1	—
3361	Aluminum castings	41.2	40.0	41.7	42.2	—	—	—	—	—	—
3362,9	Other nonferrous castings	40.8	39.0	40.5	41.4	—	—	—	—	—	—
339	Miscellaneous primary metal products	40.7	39.5	42.1	43.1	(*)	3.7	3.7	5.0	5.2	—
3391	Iron and steel forgings	40.5	39.5	42.3	43.9	—	—	—	—	—	—
34	FABRICATED METAL PRODUCTS	41.2	39.4	41.3	42.1	39.9	3.5	3.1	3.9	4.0	—
341	Metal cans	43.4	41.8	41.0	43.0	41.8	3.4	3.3	2.5	2.6	—
342	Cutlery, hand tools, and hardware	41.4	40.0	41.6	42.1	(*)	3.6	3.1	4.1	3.6	—
3421,3,5	Cutlery and hand tools, incl. saws	41.1	39.1	40.8	41.6	—	—	—	—	—	—
3429	Hardware, nec	41.5	40.6	42.2	42.4	—	—	—	—	—	—
343	Plumbing and heating, except electric ..	40.8	38.5	40.3	41.3	(*)	3.3	2.8	3.1	3.8	—
3431,2	Sanitary ware and plumbers' brass goods ..	39.7	38.1	39.4	40.7	—	—	—	—	—	—
3433	Heating equipment, except electric	41.7	38.8	41.0	41.8	—	—	—	—	—	—
344	Fabricated structural metal products	41.1	38.9	40.5	40.9	(*)	3.0	2.4	3.4	3.5	—
3441	Fabricated structural steel	42.6	39.3	40.3	40.6	—	3.4	2.6	3.3	3.4	—
3442	Metal doors, sash, and trim	39.4	37.2	39.7	40.3	—	—	—	—	—	—
3443	Fabricated plate work (boiler shops)	41.6	39.5	40.8	41.0	—	3.2	2.8	3.5	3.6	—
3444	Sheet metal work	40.5	39.1	40.8	41.2	—	—	—	—	—	—
3446,9	Architectural and misc. metal work	40.8	38.8	41.2	41.9	—	—	—	—	—	—
345	Screw machine products, bolts, etc	42.4	41.0	43.3	43.4	(*)	4.3	3.8	5.1	5.4	—
3451	Screw machine products	42.3	40.5	43.3	42.8	—	—	—	—	—	—
3452	Bolts, nuts, rivets, and washers	42.6	41.4	43.3	44.0	—	—	—	—	—	—
346	Metal stampings	40.3	38.5	42.2	44.1	(*)	4.2	4.0	5.1	5.0	—
347	Metal services, nec	41.1	39.4	40.4	40.9	(*)	3.6	3.1	3.7	3.9	—
348	Miscellaneous fabricated wire products	40.9	39.2	40.7	41.3	40.1	3.0	2.3	3.0	3.4	—
349	Miscellaneous fabricated metal products	41.6	40.1	41.4	42.0	(*)	3.2	3.0	3.6	4.0	—
3494,8	Valves, pipe, and pipe fittings	42.0	40.3	42.0	42.9	—	—	—	—	—	—
35	MACHINERY, EXCEPT ELECTRICAL	42.3	40.5	42.2	43.0	41.4	3.9	3.4	4.0	4.6	—
351	Engines and turbines	41.5	40.4	43.1	43.4	(*)	3.3	3.2	4.2	4.9	—
3511	Steam engines and turbines	41.5	40.8	40.8	40.6	—	—	—	—	—	—
3519	Internal combustion engines, nec	41.5	40.2	44.1	44.5	—	—	—	—	—	—
352	Farm machinery	42.0	40.7	40.1	42.1	—	4.7	3.9	2.8	3.1	—
353	Construction and related machinery	42.1	39.9	42.1	42.8	41.4	2.8	2.3	3.3	4.0	—
3531,2	Construction and mining machinery	41.2	39.2	41.5	41.9	—	2.0	1.7	2.6	3.2	—
3533	Oil field machinery	44.2	42.0	43.8	45.4	—	—	—	—	—	—
3535,6	Conveyors, hoists, cranes, monorails	41.5	38.7	41.9	42.3	—	—	—	—	—	—
3537	Industrial trucks and tractors	42.1	40.2	41.0	42.4	—	—	—	—	—	—
354	Metal working machinery	43.6	41.9	44.2	45.1	(*)	5.3	4.9	6.0	6.4	—
3541	Machine tools, metal cutting types	44.2	41.9	45.5	46.3	—	5.0	4.4	6.4	7.2	—
3544	Special dies, tools, jig and fixtures	44.6	43.4	45.3	45.9	—	—	—	—	—	—
3545	Machine tool accessories	42.5	40.7	43.2	44.1	—	4.2	3.6	4.7	5.4	—
3542,8	Miscellaneous metal working machinery	41.9	39.8	41.5	43.0	—	—	—	—	—	—
355	Special industry machinery	43.0	40.3	41.9	42.8	40.9	4.2	3.1	3.8	4.7	—
3551	Food products machinery	43.2	40.2	40.8	41.7	—	—	—	—	—	—
3552	Textile machinery	41.9	39.4	41.2	42.2	—	—	—	—	—	—
3555	Printing trades machinery	43.1	40.7	42.1	43.1	—	—	—	—	—	—
356	General industrial machinery	42.1	40.4	41.7	42.1	(*)	3.8	3.4	3.9	4.5	—
3561	Pumps and compressors	42.7	40.9	42.6	42.7	—	4.5	3.8	4.5	5.2	—
3562	Ball and roller bearings	41.9	40.8	41.4	41.3	—	4.0	3.9	4.4	4.3	—
3564	Blowers and fans	43.6	40.7	41.7	42.4	—	—	—	—	—	—
3566	Power transmission equipment	42.0	40.2	41.5	43.4	—	3.7	3.0	3.5	5.0	—
357	Office and computing machines	43.3	41.4	41.9	41.9	(*)	3.9	3.3	3.6	3.7	—
3573	Electronic computing equipment	44.0	42.1	42.2	42.6	—	—	—	—	—	—
358	Service industry machines	39.3	37.3	41.2	42.9	41.6	2.3	1.8	3.0	3.6	—
3585	Refrigeration machinery	39.3	37.0	41.3	43.2	—	2.3	1.8	3.0	3.5	—
359	Miscellaneous machinery, except electrical ..	42.4	41.3	41.9	42.7	(*)	4.3	4.0	4.3	4.7	—

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. p 1977	Jan. p 1978	Dec. 1976	Jan. 1977	Nov. 1977	Dec. p 1977	Jan. p 1978
	DURABLE GOODS—Continued										
36	ELECTRICAL EQUIPMENT AND SUPPLIES	\$ 210.64	\$201.76	\$223.71	\$229.60	\$221.82	\$5.15	\$5.16	\$5.51	\$5.60	\$5.63
361	Electric test and distributing equipment	218.28	212.93	231.49	238.55	(*)	5.35	5.35	5.66	5.79	(*)
3611	Electric measuring instruments	207.72	205.92	227.11	228.83	—	5.18	5.20	5.58	5.65	—
3612	Transformers	215.52	206.95	219.06	224.26	—	5.06	5.06	5.33	5.43	—
3613	Switchgear and switchboard apparatus	230.61	222.83	243.54	256.87	—	5.68	5.67	5.94	6.16	—
362	Electrical industrial apparatus	209.79	203.45	227.81	234.17	(*)	5.18	5.23	5.57	5.67	(*)
3621	Motors and generators	213.31	208.21	236.90	246.37	—	5.28	5.38	5.75	5.88	—
3622	Industrial controls	198.99	190.19	204.22	209.75	—	4.95	4.94	5.17	5.27	—
363	Household appliances	206.63	198.02	217.22	221.10	215.05	5.14	5.13	5.39	5.50	5.50
3632	Household refrigerators and freezers	226.29	227.14	246.19	255.94	—	5.56	5.46	5.82	5.98	—
3633	Household laundry equipment	239.99	210.71	235.96	261.10	—	5.97	6.09	6.36	6.61	—
3634	Electric housewares and fans	172.33	168.02	185.95	183.68	—	4.43	4.41	4.58	4.65	—
364	Electric lighting and wiring equipment	196.75	187.29	210.12	216.65	(*)	4.87	4.89	5.24	5.31	(*)
3641	Electric lamps	216.01	202.54	225.77	229.86	—	5.18	5.22	5.52	5.62	—
3642	Lighting fixtures	199.20	188.48	211.92	224.37	—	4.98	4.96	5.42	5.54	—
3643,4	Wiring devices	185.66	178.78	201.60	205.00	—	4.63	4.68	4.99	5.00	—
365	Radio and TV receiving equipment	178.16	164.62	203.54	209.35	199.66	4.58	4.51	5.14	5.30	5.31
366	Communication equipment	250.25	240.17	260.21	264.60	(*)	5.93	5.93	6.27	6.30	(*)
3661	Telephone and telegraph apparatus	266.79	245.84	268.09	272.19	—	6.19	6.07	6.46	6.45	—
3662	Radio and TV communication equipment	237.80	235.31	253.57	258.94	—	5.73	5.81	6.11	6.18	—
367	Electronic components and accessories	175.82	169.65	183.94	187.80	(*)	4.32	4.35	4.61	4.66	(*)
3671-3	Electron tubes	227.55	220.95	244.76	250.32	—	5.55	5.51	5.80	5.96	—
3674,9	Other electronic components	169.72	163.77	176.22	180.45	—	4.17	4.21	4.45	4.50	—
369	Miscellaneous electrical equip. and supplies	253.80	235.42	268.36	275.14	264.71	5.93	5.96	6.42	6.52	6.52
3694	Engine electrical equipment	270.08	247.68	289.39	300.05	—	6.34	6.40	6.99	7.06	—
	TRANSPORTATION EQUIPMENT	295.64	282.17	317.05	330.37	301.50	6.94	6.95	7.46	7.56	7.50
371	Motor vehicles and equipment	335.66	318.52	363.32	382.63	(*)	7.56	7.62	8.22	8.30	(*)
3711	Motor vehicles	366.86	340.43	386.96	408.59	—	8.01	8.01	8.58	8.62	—
3712	Passenger car bodies	383.00	366.03	408.04	384.79	—	8.29	8.30	9.19	9.14	—
3713	Truck and bus bodies	234.50	230.06	250.22	263.76	—	5.79	5.96	6.24	6.28	—
3714	Motor vehicle parts and accessories	318.86	308.84	358.60	382.54	—	7.33	7.46	8.15	8.28	—
3715	Truck trailers	209.50	209.72	214.52	225.09	—	5.16	5.23	5.39	5.49	—
372	Aircraft and parts	278.56	275.11	301.04	308.45	(*)	6.68	6.71	7.10	7.19	(*)
3721	Aircraft	283.30	284.28	303.54	310.73	—	6.81	6.90	7.21	7.26	—
3722	Aircraft engines and engine parts	281.26	275.93	305.87	315.00	—	6.86	6.83	7.30	7.50	—
3723,9	Other aircraft parts and equipment	263.89	253.58	290.15	294.36	—	6.18	6.14	6.67	6.69	—
373	Ship and boat building and repairing	234.63	219.41	242.97	246.09	(*)	5.91	5.82	6.23	6.31	(*)
3731	Ship building and repairing	249.88	232.01	255.30	258.13	—	6.31	6.22	6.58	6.67	—
3732	Boat building and repairing	184.86	177.51	197.71	201.60	—	4.61	4.54	4.98	5.04	—
374	Railroad equipment	280.99	270.34	315.24	(*)	—	7.06	7.04	7.67	(*)	—
375,9	Other transportation equipment	175.03	170.94	193.44	189.62	—	4.57	4.62	4.96	4.99	—
	INSTRUMENTS AND RELATED PRODUCTS	210.73	201.45	217.46	222.76	214.82	5.09	5.10	5.33	5.42	5.48
381	Engineering and scientific instruments	224.28	211.20	236.90	247.68	—	5.34	5.32	5.75	5.76	—
382	Mechanical measuring and control devices	207.25	196.32	212.86	217.42	(*)	4.97	4.97	5.23	5.29	(*)
3821	Mechanical measuring devices	215.56	202.18	221.37	225.22	—	5.06	5.08	5.36	5.44	—
3822	Automatic temperature controls	192.88	187.29	198.90	205.22	—	4.81	4.79	5.01	5.03	—
383,5	Optical and ophthalmic goods	183.37	175.38	193.11	195.46	192.27	4.55	4.52	4.78	4.85	4.88
385	Ophthalmic goods	161.92	158.80	169.69	171.55	—	4.12	4.19	4.34	4.41	—
384	Medical instruments and supplies	182.78	174.21	186.73	189.13	(*)	4.48	4.49	4.68	4.74	(*)
386	Photographic equipment and supplies	274.77	269.04	283.38	293.25	(*)	6.45	6.53	6.72	6.90	(*)
387	Watches, clocks, and watchcases	161.99	156.53	173.32	179.05	—	4.06	4.13	4.29	4.41	—
	MISC. MANUFACTURING INDUSTRIES	164.27	159.42	174.94	177.24	170.40	4.18	4.24	4.44	4.51	4.52
391	Jewelry, silverware, and plated ware	180.00	163.76	188.44	190.35	(*)	4.50	4.45	4.63	4.70	(*)
394	Toys and sporting goods	148.23	145.36	156.24	160.06	—	3.85	3.95	4.09	4.19	—
3941-3	Games, toys, dolls and play vehicles	137.64	138.67	144.74	145.27	—	3.69	3.82	3.87	3.98	—
3949	Sporting and athletic goods, nec	157.61	151.81	168.91	171.43	—	3.98	4.07	4.32	4.34	—
395	Pens, pencils, office and art supplies	172.64	167.56	186.82	197.96	—	4.15	4.21	4.48	4.68	—
396	Costume jewelry and notions	140.54	136.15	149.77	149.75	—	3.66	3.72	3.88	3.91	—
393,9	Other manufacturing industries	177.36	173.81	188.81	188.16	183.54	4.49	4.55	4.78	4.80	4.83
393	Musical instruments and parts	168.02	156.53	176.99	179.55	—	4.19	4.13	4.37	4.39	—
	NONDURABLE GOODS										
	FOOD AND KINDRED PRODUCTS	208.98	204.62	219.45	223.36	218.01	5.16	5.22	5.50	5.57	5.59
201	Meat products	213.96	210.79	222.56	224.40	223.57	5.27	5.35	5.55	5.61	5.66
2011	Meat packing plants	260.25	267.97	279.72	282.56	—	6.25	6.32	6.66	6.68	—
2013	Sausages and other prepared meats	257.91	243.66	264.37	270.68	—	6.26	6.20	6.56	6.70	—
2015	Poultry dressing plants	126.67	119.99	135.72	133.94	—	3.36	3.38	3.60	3.62	—

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
DURABLE GOODS—Continued											
36	ELECTRICAL EQUIPMENT AND SUPPLIES	40.9	39.1	40.6	41.0	39.4	2.8	2.4	2.9	3.1	—
361	Electric test and distributing equipment	40.8	39.8	40.9	41.2	(*)	2.5	2.2	2.6	3.3	—
3611	Electric measuring instruments	40.1	39.6	40.7	40.5	—	2.2	2.0	2.1	2.3	—
3612	Transformers	42.0	40.9	41.1	41.3	—	—	—	—	—	—
3613	Switchgear and switchboard apparatus	40.6	39.3	41.0	41.7	—	—	—	—	—	—
362	Electrical industrial apparatus	40.5	38.9	40.9	41.3	(*)	2.6	2.4	3.0	3.5	—
3621	Motors and generators	40.4	38.7	41.2	41.9	—	2.8	2.7	3.4	3.9	—
3622	Industrial controls	40.2	38.5	39.5	39.8	—	2.1	1.6	2.0	2.4	—
363	Household appliances	40.2	38.6	40.3	40.2	39.1	2.2	2.1	2.7	2.4	—
3632	Household refrigerators and freezers	40.7	41.6	42.3	42.8	—	—	—	—	—	—
3633	Household laundry equipment	40.2	34.6	37.1	39.5	—	—	—	—	—	—
3634	Electric housewares and fans	38.9	38.1	40.6	39.5	—	2.3	1.7	3.0	2.2	—
364	Electric lighting and wiring equipment	40.4	38.3	40.1	40.8	(*)	2.5	2.1	2.5	2.6	—
3641	Electric lamps	41.7	38.8	40.9	40.9	—	2.2	1.8	2.2	2.0	—
3642	Lighting fixtures	40.0	38.0	39.1	40.5	—	2.7	2.4	2.4	2.6	—
3643,4	Wiring devices	40.1	38.2	40.4	41.0	—	2.4	1.9	2.7	2.9	—
365	Radio and TV receiving equipment	38.9	36.5	39.6	39.5	37.6	2.2	1.7	2.6	2.4	—
366	Communication equipment	42.2	40.5	41.5	42.0	(*)	3.3	2.4	3.0	3.2	—
3661	Telephone and telegraph apparatus	43.1	40.5	41.5	42.2	—	—	—	—	—	—
3662	Radio and TV communication equipment	41.5	40.5	41.5	41.9	—	2.9	2.5	2.9	3.1	—
367	Electronic components and accessories	40.7	39.0	39.9	40.3	(*)	2.7	2.2	2.6	2.9	—
3671-3	Electron tubes	41.0	40.1	42.2	42.0	—	1.5	1.1	3.1	3.1	—
3674,9	Other electronic components	40.7	38.9	39.6	40.1	—	2.8	2.4	2.6	2.9	—
369	Miscellaneous electrical equip. and supplies	42.8	39.5	41.8	42.2	40.6	4.4	3.8	4.4	4.2	—
3694	Engine electrical equipment	42.6	38.7	41.4	42.5	—	—	—	—	—	—
37	TRANSPORTATION EQUIPMENT	42.6	40.6	42.5	43.7	40.2	4.7	4.3	5.1	4.8	—
371	Motor vehicles and equipment	44.4	41.8	44.2	46.1	(*)	6.4	5.8	6.5	5.9	—
3711	Motor vehicles	45.8	42.5	45.1	47.4	—	7.4	5.9	7.2	5.8	—
3712	Passenger car bodies	46.2	44.1	44.4	42.1	—	—	—	—	—	—
3713	Truck and bus bodies	40.5	38.6	40.1	42.0	—	—	—	—	—	—
3714	Motor vehicle parts and accessories	43.5	41.4	44.0	46.2	—	5.5	5.7	6.2	6.2	—
3715	Truck trailers	40.6	40.1	39.8	41.0	—	—	—	—	—	—
372	Aircraft and parts	41.7	41.0	42.4	42.9	(*)	3.2	2.8	4.3	4.6	—
3721	Aircraft	41.6	41.2	42.1	42.8	—	2.5	2.4	3.4	3.9	—
3722	Aircraft engines and engine parts	41.0	40.4	41.9	42.0	—	3.5	3.0	4.7	4.7	—
3723,9	Other aircraft parts and equipment	42.7	41.3	43.5	44.0	—	4.3	3.5	5.4	5.8	—
373	Ship and boat building and repairing	39.7	37.7	39.0	39.0	(*)	2.6	2.4	2.6	2.7	—
3731	Ship building and repairing	39.6	37.3	38.8	38.7	—	—	—	—	—	—
3732	Boat building and repairing	40.1	39.1	39.7	40.0	—	—	—	—	—	—
374	Railroad equipment	39.8	38.4	41.1	(*)	—	2.2	2.0	3.8	(*)	—
375,9	Other transportation equipment	38.3	37.0	39.0	38.0	—	2.1	2.2	2.3	1.9	—
38	INSTRUMENTS AND RELATED PRODUCTS.	41.4	39.5	40.8	41.1	39.2	2.8	2.3	2.6	2.8	—
381	Engineering and scientific instruments	42.0	39.7	41.2	43.0	—	3.1	2.2	3.0	3.7	—
382	Mechanical measuring and control devices	41.7	39.5	40.7	41.1	(*)	2.9	2.6	2.7	3.1	—
3821	Mechanical measuring devices	42.6	39.8	41.3	41.4	—	3.1	2.6	3.2	3.4	—
3822	Automatic temperature controls	40.1	39.1	39.7	40.8	—	2.6	2.5	1.9	2.6	—
383,5	Optical and ophthalmic goods	40.3	38.8	40.4	40.3	39.4	2.5	2.1	2.2	2.4	—
385	Ophthalmic goods	39.3	37.9	39.1	38.9	—	1.9	1.9	1.5	1.7	—
384	Medical instruments and supplies	40.8	38.8	39.9	39.9	(*)	2.6	2.0	2.2	2.2	—
386	Photographic equipment and supplies	42.6	41.2	42.2	42.5	(*)	3.4	2.6	3.1	3.4	—
387	Watches, clocks, and watch cases	39.9	37.9	40.4	40.6	—	1.9	2.3	2.5	2.4	—
39	MISC. MANUFACTURING INDUSTRIES	39.3	37.6	39.4	39.3	37.7	2.1	1.7	2.5	2.5	—
391	Jewelry, silverware, and plated ware	40.0	36.8	40.7	40.5	(*)	3.0	2.0	3.9	3.5	—
394	Toys and sporting goods	38.5	36.8	38.2	38.2	—	1.4	1.2	1.6	1.6	—
3941-3	Games, toys, dolls and play vehicles	37.3	36.3	37.4	36.5	—	—	—	—	—	—
3949	Sporting and athletic goods, nec	39.6	37.3	39.1	39.5	—	—	—	—	—	—
395	Pens, pencils, office and art supplies	41.6	39.8	41.7	42.3	—	3.5	2.7	3.9	4.0	—
396	Costume jewelry and notions	38.4	36.6	38.6	38.3	—	1.7	1.6	2.5	2.4	—
393,9	Other manufacturing industries	39.5	38.2	39.5	39.2	38.0	2.0	1.7	2.4	2.3	—
393	Musical instruments and parts	40.1	37.9	40.5	40.9	—	2.0	1.2	1.9	2.1	—
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	40.5	39.2	39.9	40.1	39.0	3.9	3.5	4.0	3.9	—
201	Meat products	40.6	39.4	40.1	40.0	39.5	4.3	3.8	4.1	3.9	—
2011	Meat packing plants	42.6	42.4	42.0	42.3	—	5.0	4.7	4.7	4.8	—
2013	Sausages and other prepared meats	41.2	39.3	40.3	40.4	—	—	—	—	—	—
2015	Poultry dressing plants	37.7	35.5	37.7	37.0	—	—	—	—	—	—

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
	NONDURABLE GOODS—Continued										
	FOOD AND KINDRED PRODUCTS—Continued										
202	Dairy products	\$214.20	\$209.82	\$225.63	\$227.84	\$222.89	\$5.10	\$5.13	\$5.45	\$5.49	\$5.49
2024	Ice cream and frozen desserts	203.15	199.43	209.86	211.29	—	5.13	5.18	5.34	5.39	—
2026	Fluid milk	224.18	223.65	236.32	239.70	—	5.25	5.25	5.64	5.68	—
203	Canned, cured, and frozen foods	169.67	160.74	175.50	177.34	—	4.43	4.49	4.68	4.78	—
2031,6	Canned, cured, and frozen sea foods	143.42	125.51	145.59	145.62	—	4.04	4.01	4.22	4.36	—
2032,3	Canned food, except sea foods	184.93	172.67	185.09	192.02	—	4.67	4.77	4.82	5.04	—
2037	Frozen fruits and vegetables	158.12	155.08	172.93	169.03	—	4.15	4.18	4.48	4.46	—
204	Grain mill products	240.02	234.35	263.07	268.57	257.73	5.48	5.45	6.02	6.09	6.05
2041	Flour and other grain mill products	254.25	243.78	304.14	296.32	—	5.65	5.63	6.43	6.40	—
2042	Prepared feeds for animals and fowls	208.15	203.08	213.27	222.72	—	4.72	4.69	5.03	5.12	—
205	Bakery products	210.26	203.99	223.65	224.40	218.69	5.35	5.34	5.72	5.71	5.71
2051	Bread, cake, and related products	207.09	201.78	220.77	222.09	—	5.31	5.31	5.69	5.68	—
2052	Cookies and crackers	223.71	210.37	234.14	233.56	—	5.51	5.45	5.81	5.81	—
206	Sugar	220.48	217.74	212.01	249.15	—	5.20	5.43	5.73	5.89	—
207	Confectionery and related products	175.31	176.40	188.57	185.27	(*)	4.53	4.63	4.86	4.85	(*)
2071	Confectionery products	167.04	163.37	176.10	172.13	—	4.35	4.38	4.61	4.59	—
208	Beverages	246.43	238.46	266.12	269.47	(*)	6.13	6.13	6.62	6.67	(*)
2082	Malt liquors	345.77	330.84	375.33	383.21	—	8.06	8.03	8.75	8.83	—
2086	Bottled and canned soft drinks	181.27	175.77	186.20	190.08	—	4.66	4.65	4.90	4.95	—
209	Miscellaneous foods and kindred products ..	215.28	212.07	221.65	226.61	(*)	5.03	5.11	5.29	5.37	(*)
21	TOBACCO MANUFACTURES	193.03	184.21	223.36	223.10	220.80	5.04	5.16	5.57	5.75	6.00
211	Cigarettes	244.45	224.18	279.10	279.30	—	6.22	6.21	6.96	7.00	—
212	Cigars	128.02	124.44	135.66	132.31	—	3.36	3.40	3.40	3.41	—
22	TEXTILE MILL PRODUCTS	154.73	150.52	167.69	168.92	164.30	3.83	3.83	4.10	4.12	4.17
221	Weaving mills, cotton	163.55	161.17	177.98	177.98	176.66	3.96	3.96	4.32	4.32	4.33
222	Weaving mills, synthetics	163.60	161.20	180.96	182.25	179.17	4.00	3.99	4.35	4.36	4.37
223	Weaving and finishing mills, wool	167.84	155.23	171.25	177.18	(*)	3.94	3.91	4.26	4.29	(*)
224	Narrow fabric mills	144.68	139.73	151.58	156.56	(*)	3.59	3.62	3.78	3.80	(*)
225	Knitting mills	138.96	134.67	150.10	149.37	(*)	3.60	3.63	3.80	3.83	(*)
2251	Women's hosiery, except socks	129.75	125.74	143.67	145.44	—	3.31	3.38	3.53	3.60	—
2252	Hosiery, nec	122.91	119.97	140.30	134.87	—	3.34	3.37	3.57	3.54	—
2253	Knit outerwear mills	136.53	131.72	142.50	141.38	—	3.70	3.70	3.79	3.76	—
2254	Knit underwear mills	130.99	123.01	138.90	139.35	—	3.35	3.37	3.58	3.61	—
226	Textile finishing, except wool	171.81	159.08	181.28	187.43	176.55	4.15	4.10	4.40	4.41	4.37
227	Floor covering mills	165.09	162.41	180.63	189.66	—	3.94	4.02	4.25	4.35	—
228	Yarn and thread mills	143.92	142.13	159.80	159.42	(*)	3.58	3.58	3.86	3.86	(*)
229	Miscellaneous textile goods	170.55	166.46	186.78	187.71	(*)	4.09	4.09	4.49	4.48	(*)
23	APPAREL AND OTHER TEXTILE PRODUCTS	124.26	119.60	132.83	134.27	127.82	3.52	3.57	3.70	3.74	3.85
231	Men's and boys' suits and coats	158.19	149.26	163.15	167.35	(*)	4.37	4.39	4.57	4.56	(*)
232	Men's and boys' furnishings	113.49	107.23	122.28	122.38	(*)	3.17	3.22	3.35	3.39	(*)
2321	Men's and boys' shirts and nightwear	110.80	105.24	119.23	121.40	—	3.13	3.17	3.24	3.29	—
2327	Men's and boys' separate trousers	112.73	106.60	122.40	121.78	—	3.23	3.25	3.40	3.44	—
2328	Men's and boys' work clothing	114.95	107.46	120.38	120.88	—	3.09	3.17	3.28	3.33	—
233	Women's and misses' outerwear	118.11	116.84	125.87	125.50	(*)	3.59	3.64	3.78	3.78	(*)
2331	Women's and misses' blouses and waists	114.90	114.75	122.40	121.99	—	3.44	3.52	3.60	3.62	—
2335	Women's and misses' dresses	115.39	114.27	123.20	123.07	—	3.64	3.71	3.85	3.87	—
2337	Women's and misses' suits and coats	132.66	131.61	142.23	140.34	—	4.12	4.10	4.31	4.24	—
2339	Women's and misses' outerwear, nec	116.92	114.92	124.25	124.25	—	3.35	3.39	3.54	3.54	—
234	Women's and children's undergarments	114.31	111.51	127.09	124.41	(*)	3.22	3.27	3.38	3.39	(*)
2341	Women's and children's underwear	109.12	107.12	123.38	120.09	—	3.10	3.16	3.29	3.29	—
2342	Corsets and allied garments	130.31	127.37	139.86	138.75	—	3.58	3.66	3.70	3.71	—
235	Hats, caps, and millinery	112.98	106.73	124.66	125.46	—	3.07	3.13	3.36	3.40	—
236	Children's outerwear	115.05	108.23	120.35	120.33	(*)	3.25	3.25	3.39	3.38	(*)
2361	Children's dresses and blouses	108.82	105.95	119.93	117.86	—	3.21	3.25	3.35	3.32	—
237,8	Fur goods and miscellaneous apparel	130.31	125.28	140.23	139.08	—	3.57	3.60	3.79	3.80	—
239	Miscellaneous fabricated textile products	152.43	146.16	162.24	170.25	(*)	3.98	4.06	4.16	4.31	(*)
2391,2	Housefurnishings	127.71	117.51	138.45	138.16	—	3.30	3.31	3.55	3.57	—
26	PAPER AND ALLIED PRODUCTS	243.95	237.84	262.98	268.83	259.36	5.66	5.69	6.13	6.18	6.19
261,2,6	Paper and pulp mills	287.29	283.52	313.73	318.15	(*)	6.37	6.40	7.05	7.07	(*)
263	Paperboard mills	292.60	289.72	322.01	331.92	(*)	6.59	6.54	7.14	7.20	(*)
264	Miscellaneous converted paper products	212.25	204.00	223.30	229.35	222.15	5.09	5.10	5.42	5.50	5.54
2643	Bags, except textile bags	207.46	196.43	217.15	227.06	—	4.87	4.85	5.22	5.33	—
265	Paperboard containers and boxes	215.04	206.74	233.62	237.97	(*)	5.12	5.13	5.51	5.56	(*)
2651,2	Folding and setup paperboard boxes	203.57	193.64	222.71	228.12	—	4.87	4.89	5.29	5.33	—
2653	Corrugated and solid fiber boxes	228.72	220.04	247.53	252.29	—	5.42	5.38	5.77	5.84	—
2654	Sanitary food containers	204.73	195.11	218.50	223.13	—	4.84	4.89	5.19	5.25	—

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
	NONDURABLE GOODS—Continued										
	FOOD AND KINDRED PRODUCTS—Continued										
202	Dairy products	42.0	40.9	41.4	41.5	40.6	3.9	3.9	4.1	4.2	—
2024	Ice cream and frozen desserts	39.6	38.5	39.3	39.2	—	—	—	—	—	—
2026	Fluid milk	42.7	42.6	41.9	42.2	—	—	—	—	—	—
203	Canned, cured, and frozen foods	38.3	35.8	37.5	37.1	—	2.7	2.2	3.0	2.6	—
2031,6	Canned, cured, and frozen sea foods	35.5	31.3	34.5	33.4	—	—	—	—	—	—
2032,3	Canned food, except sea foods	39.6	36.2	38.4	38.1	—	—	—	—	—	—
2037	Frozen fruits and vegetables	38.1	37.1	38.6	37.9	—	—	—	—	—	—
204	Grain mill products	43.8	43.0	43.7	44.1	42.6	5.6	5.9	6.4	6.3	—
2041	Flour and other grain mill products	45.0	43.3	47.3	46.3	—	—	—	—	—	—
2042	Prepared feeds for animals and fowls	44.1	43.3	42.4	43.5	—	—	—	—	—	—
205	Bakery products	39.3	38.2	39.1	39.3	38.3	3.4	3.1	3.7	3.6	—
2051	Bread, cake, and related products	39.0	38.0	38.8	39.1	—	—	—	—	—	—
2052	Cookies and crackers	40.6	38.6	40.3	40.2	—	—	—	—	—	—
206	Sugar	42.4	40.1	37.0	42.3	—	3.0	2.5	4.3	5.6	—
207	Confectionery and related products	38.7	38.1	38.8	38.2	(*)	2.5	2.4	2.9	2.4	—
2071	Confectionery products	38.4	37.3	38.2	37.5	—	—	—	—	—	—
208	Beverages	40.2	38.9	40.2	40.4	(*)	3.7	3.3	4.2	4.1	—
2082	Malt liquors	42.9	41.2	42.7	43.3	—	—	—	—	—	—
2086	Bottled and canned soft drinks	38.9	37.8	38.0	38.4	—	—	—	—	—	—
209	Miscellaneous foods and kindred products	42.8	41.5	41.9	42.2	(*)	4.9	4.6	4.7	4.8	—
21	TOBACCO MANUFACTURES	38.3	35.7	40.1	38.8	36.8	2.2	1.8	2.9	2.6	—
211	Cigarettes	39.3	36.1	40.1	39.9	—	2.6	2.4	2.9	3.1	—
212	Cigars	38.1	36.6	39.9	38.8	—	.8	.7	1.1	.9	—
22	TEXTILE MILL PRODUCTS	40.4	39.3	40.9	41.0	39.4	3.4	3.1	3.7	3.7	—
221	Weaving mills, cotton	41.3	40.7	41.2	41.2	40.8	3.8	3.7	4.1	4.2	—
222	Weaving mills, synthetics	40.9	40.4	41.6	41.8	41.0	3.6	3.1	3.8	3.7	—
223	Weaving and finishing mills, wool	42.6	39.7	40.2	41.3	(*)	3.7	2.8	3.6	4.2	—
224	Narrow fabric mills	40.3	38.6	40.1	41.2	(*)	3.0	2.8	3.1	3.4	—
225	Knitting mills	38.6	37.1	39.5	39.0	(*)	2.7	2.4	3.0	2.6	—
2251	Women's hosiery, except socks	39.2	37.2	40.7	40.4	—	—	—	—	—	—
2252	Hosiery, nec	36.8	35.6	39.3	38.1	—	—	—	—	—	—
2253	Knit outerwear mills	36.9	35.6	37.6	37.6	—	—	—	—	—	—
2254	Knit underwear mills	39.1	36.5	38.8	38.6	—	—	—	—	—	—
226	Textile finishing, except wool	41.4	38.8	41.2	42.5	40.4	3.8	2.9	4.3	4.5	—
227	Floor covering mills	41.9	40.4	42.5	43.6	—	4.4	4.5	4.5	5.5	—
228	Yarn and thread mills	40.2	39.7	41.4	41.3	(*)	3.1	3.2	3.9	3.8	—
229	Miscellaneous textile goods	41.7	40.7	41.6	41.9	(*)	3.8	3.7	4.0	3.9	—
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.3	33.5	35.9	35.9	33.2	1.1	1.0	1.4	1.2	—
231	Men's and boys' suits and coats	36.2	34.0	35.7	36.7	(*)	1.2	.9	.6	.7	—
232	Men's and boys' furnishings	35.8	33.3	36.5	36.1	(*)	1.0	.8	1.2	.9	—
2321	Men's and boys' shirts and nightwear	35.4	33.2	36.8	36.9	—	.9	.7	1.2	1.0	—
2327	Men's and boys' separate trousers	34.9	32.8	36.0	35.4	—	.7	.8	1.3	1.0	—
2328	Men's and boys' work clothing	37.2	33.9	36.7	36.3	—	1.2	.9	1.1	.8	—
233	Women's and misses' outerwear	32.9	32.1	33.3	33.2	(*)	.9	1.0	1.0	.9	—
2331	Women's and misses' blouses and waists	33.4	32.6	34.0	33.7	—	—	—	—	—	—
2335	Women's and misses' dresses	31.7	30.8	32.0	31.8	—	.8	.9	.9	.9	—
2337	Women's and misses' suits and coats	32.2	32.1	33.0	33.1	—	.7	.9	1.2	1.3	—
2339	Women's and misses' outerwear, nec	34.9	33.9	35.1	35.1	—	1.2	1.3	1.1	.8	—
234	Women's and children's undergarments	35.5	34.1	37.6	36.7	(*)	.8	.7	1.5	1.1	—
2341	Women's and children's underwear	35.2	33.9	37.5	36.5	—	—	—	—	—	—
2342	Corsets and allied garments	36.4	34.8	37.8	37.4	—	—	—	—	—	—
235	Hats, caps, and millinery	36.8	34.1	37.1	36.9	—	1.3	1.5	1.1	1.1	—
236	Children's outerwear	35.4	33.3	35.5	35.6	(*)	1.1	.7	1.5	1.4	—
2361	Children's dresses and blouses	33.9	32.6	35.8	35.5	—	—	—	—	—	—
237,8	Fur goods and miscellaneous apparel	36.5	34.8	37.0	36.6	—	1.0	.7	1.7	1.3	—
239	Miscellaneous fabricated textile products	38.3	36.0	39.0	39.5	(*)	1.9	1.8	2.4	2.5	—
2391,2	Housefurnishings	38.7	35.5	39.0	38.7	—	—	—	—	—	—
26	PAPER AND ALLIED PRODUCTS	43.1	41.8	42.9	43.5	41.9	4.6	4.4	4.9	5.1	—
261,2,6	Paper and pulp mills	45.1	44.3	44.5	45.0	(*)	6.0	6.0	6.3	6.4	—
263	Paperboard mills	44.4	44.3	45.1	46.1	(*)	6.7	6.8	7.0	7.8	—
264	Miscellaneous converted paper products	41.7	40.0	41.2	41.7	40.1	3.5	3.1	3.7	4.0	—
2643	Bags, except textile bags	42.6	40.5	41.6	42.6	—	—	—	—	—	—
265	Paperboard containers and boxes	42.0	40.3	42.4	42.8	(*)	3.5	3.1	3.9	4.1	—
2651,2	Folding and setup paperboard boxes	41.8	39.6	42.1	42.8	—	—	—	—	—	—
2653	Corrugated and solid fiber boxes	42.2	40.9	42.9	43.2	—	4.0	3.6	4.4	4.5	—
2654	Sanitary food containers	42.3	39.9	42.1	42.5	—	—	—	—	—	—

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
	NONDURABLE GOODS—Continued										
27	PRINTING AND PUBLISHING	\$224.44	\$219.04	\$238.13	\$240.77	\$235.59	\$5.86	\$5.92	\$6.25	\$6.27	\$6.35
271	Newspapers	224.76	215.74	237.35	239.42	(*)	6.44	6.44	6.84	6.88	(*)
272	Periodicals	225.88	231.10	230.21	238.13	—	5.96	6.13	6.29	6.25	—
273	Books	204.75	199.58	215.28	219.60	—	5.21	5.28	5.45	5.49	—
275	Commercial printing	231.47	226.14	248.53	250.43	(*)	5.86	5.92	6.34	6.34	(*)
2751	Commercial printing, except lithographic	222.78	216.98	241.02	241.92	—	5.64	5.71	6.18	6.14	—
2752	Commercial printing, lithographic	245.69	241.15	260.43	263.74	—	6.22	6.28	6.61	6.66	—
278	Blankbooks and bookbinding	180.18	179.33	190.64	191.97	(*)	4.55	4.67	4.79	4.86	(*)
274,8,7,9	Other publishing and printing ind.	234.95	226.56	257.75	261.23	(*)	5.83	5.90	6.46	6.45	(*)
28	CHEMICALS AND ALLIED PRODUCTS ...	258.49	255.85	275.88	279.30	276.19	6.14	6.18	6.60	6.65	6.72
281	Industrial chemicals	290.28	288.23	315.86	318.65	315.51	6.83	6.83	7.38	7.48	7.53
2812	Alkalies and chlorine	310.95	287.04	330.58	323.33	—	6.91	6.90	7.67	7.68	—
2818	Industrial organic chemicals, nec.	308.42	310.43	335.69	342.77	—	7.24	7.27	7.88	7.99	—
2819	Industrial inorganic chemicals, nec.	281.40	280.56	306.29	307.22	—	6.70	6.68	7.19	7.28	—
282	Plastics materials and synthetics	249.18	249.87	271.09	274.95	(*)	5.99	6.05	6.47	6.50	(*)
2821	Plastics materials and resins	275.18	269.95	291.89	290.68	—	6.24	6.22	6.71	6.76	—
2823,4	Synthetic fibers	221.69	227.83	245.62	252.89	—	5.57	5.71	6.02	6.05	—
283	Drugs	240.24	235.48	247.86	253.15	(*)	5.72	5.80	6.09	6.10	(*)
2834	Pharmaceutical preparations	235.62	228.90	244.02	249.07	—	5.61	5.68	6.04	6.06	—
284	Soap, cleaners, and toilet goods	249.55	238.00	255.02	258.13	(*)	5.97	5.95	6.22	6.25	(*)
2841	Soap and other detergents	334.47	312.25	339.34	341.78	—	7.55	7.47	7.91	7.93	—
2844	Toilet preparations	195.69	186.14	201.50	206.85	—	4.88	4.86	5.05	5.12	—
285	Paints and allied products	228.07	227.43	244.39	245.21	243.81	5.59	5.70	5.99	6.01	6.08
287	Agricultural chemicals	238.82	241.53	258.03	260.71	(*)	5.58	5.63	6.10	6.12	(*)
2871,2	Fertilizers, complete and mixing only ..	224.80	230.89	238.41	241.65	—	5.24	5.32	5.69	5.74	—
288,9	Other chemical products	243.24	241.81	254.61	256.47	248.07	5.67	5.73	6.15	6.18	6.11
2892	Explosives	235.88	232.67	246.38	240.40	—	5.55	5.62	5.98	5.98	—
29	PETROLEUM AND COAL PRODUCTS	309.10	307.84	340.52	343.48	352.94	7.29	7.40	7.81	7.86	8.17
291	Petroleum refining	332.84	335.96	370.20	371.94	(*)	7.85	7.98	8.53	8.57	(*)
295,9	Other petroleum and coal products	237.86	223.91	258.72	262.69	(*)	5.61	5.57	5.88	5.89	(*)
30	RUBBER AND PLASTICS PRODUCTS, NEC ..	209.92	206.35	214.54	216.41	208.69	5.01	5.07	5.22	5.24	5.27
301	Tires and inner tubes	338.91	339.86	313.47	313.30	—	7.15	7.17	7.29	7.32	(*)
302,3,6	Other rubber products	202.11	197.11	215.25	217.65	(*)	4.87	4.94	5.25	5.27	(*)
302	Rubber footwear	131.71	127.80	139.50	144.34	—	3.55	3.55	3.71	3.72	—
307	Miscellaneous plastics products	173.72	169.26	185.95	188.50	(*)	4.30	4.34	4.58	4.62	(*)
31	LEATHER AND LEATHER PRODUCTS ...	129.90	123.88	140.61	139.50	135.68	3.53	3.57	3.71	3.71	3.79
311	Leather tanning and finishing	181.57	174.28	197.69	198.28	199.70	4.62	4.66	4.93	4.92	4.98
314	Footwear, except rubber	122.67	116.96	133.46	133.14	(*)	3.37	3.41	3.54	3.56	(*)
312,3,5-7,9	Other leather products	129.89	124.24	138.37	135.04	(*)	3.52	3.56	3.68	3.64	(*)
316	Luggage	133.16	125.12	143.11	131.06	—	3.73	3.68	3.91	3.81	—
317	Handbags and personal leather goods ..	121.15	117.65	134.19	131.95	—	3.31	3.42	3.55	3.50	—
—	TRANSPORTATION AND PUBLIC UTILITIES	269.33	264.65	290.56	292.50	286.38	6.65	6.70	7.21	7.24	7.25
4011	RAILROAD TRANSPORTATION: Class I railroads ²	314.35	310.03	337.57	(*)	—	6.97	7.21	7.62	(*)	—
411	LOCAL AND INTERURBAN PASSENGER TRANSIT: Local and suburban transportation	226.46	218.96	239.62	241.41	—	5.69	5.60	6.16	6.19	—
413	Intercity highway transportation	254.25	283.50	274.15	268.50	—	6.78	7.56	7.47	7.50	—
42	TRUCKING AND WAREHOUSING	271.51	255.06	290.39	302.12	—	6.59	6.54	7.17	7.28	—
421,3	Trucking and trucking terminals	278.78	261.58	297.68	309.92	—	6.75	6.69	7.35	7.45	—
422	Public warehousing	195.62	184.99	206.04	207.76	—	4.83	4.83	5.19	5.22	—
46	PIPE LINE TRANSPORTATION	324.73	352.03	348.61	356.58	—	7.75	8.13	8.34	8.49	—
48	COMMUNICATION	263.07	261.22	296.84	290.56	—	6.66	6.63	7.24	7.21	—
481	Telephone communication	267.81	265.16	304.88	297.34	—	6.78	6.73	7.40	7.36	—
4817	Switchboard operating employees ³	194.45	193.14	231.25	223.61	—	5.77	5.80	6.25	6.16	—
4818	Line construction employees ⁴	343.37	336.77	413.52	408.97	—	7.93	7.85	8.97	8.91	—
482	Telegraph communication ⁵	277.57	296.60	(*)	(*)	—	6.77	6.93	(*)	(*)	—
483	Radio and television broadcasting	243.32	245.86	265.47	265.32	—	6.16	6.24	6.67	6.70	—

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
NONDURABLE GOODS—Continued											
27	PRINTING AND PUBLISHING	38.3	37.0	38.1	38.4	37.1	2.9	2.4	3.0	3.2	—
271	Newspapers	34.9	33.5	34.7	34.8	(*)	1.9	1.3	2.1	2.1	—
272	Periodicals	37.9	37.7	36.6	38.1	—	2.3	2.0	1.9	2.5	—
273	Books	39.3	37.8	39.5	40.0	—	3.3	2.8	3.6	4.2	—
275	Commercial printing	39.5	38.2	39.2	39.5	(*)	3.3	2.8	3.5	3.8	—
2751	Commercial printing, except lithographic	39.5	38.0	39.0	39.4	—	3.1	2.6	3.3	3.6	—
2752	Commercial printing, lithographic	39.5	38.4	39.4	39.6	—	3.5	3.0	3.7	4.1	—
278	Blankbooks and bookbinding	39.6	38.4	39.8	39.5	(*)	2.4	2.5	2.7	2.4	—
274,6,7,9	Other publishing and printing ind	40.3	38.4	39.9	40.5	(*)	3.7	2.8	3.2	3.6	—
28	CHEMICALS AND ALLIED PRODUCTS	42.1	41.4	41.8	42.0	41.1	3.3	3.3	3.2	3.5	—
281	Industrial chemicals	42.5	42.2	42.8	42.6	41.9	3.7	3.6	3.6	3.8	—
2812	Alkalies and chlorine	45.0	41.6	43.1	42.1	—	—	—	—	—	—
2818	Industrial organic chemicals, nec	42.6	42.7	42.6	42.9	—	3.7	3.7	3.5	4.0	—
2819	Industrial inorganic chemicals, nec	42.0	42.0	42.6	42.2	—	4.1	3.5	3.3	3.3	—
282	Plastics materials and synthetics	41.6	41.3	41.9	42.3	(*)	2.7	3.0	3.1	3.5	—
2821	Plastics materials and resins	44.1	43.4	43.5	43.0	—	4.3	4.3	4.6	4.4	—
2823,4	Synthetic fibers	39.8	39.9	40.8	41.8	—	1.4	2.0	2.1	2.9	—
283	Drugs	42.0	40.6	40.7	41.5	(*)	3.1	2.8	2.7	2.9	—
2834	Pharmaceutical preparations	42.0	40.3	40.4	41.1	—	—	—	—	—	—
284	Soap, cleaners, and toilet goods	41.8	40.0	41.0	41.3	(*)	3.2	2.6	3.0	3.1	—
2841	Soap and other detergents	44.3	41.8	42.9	43.1	—	—	—	—	—	—
2844	Toilet preparations	40.1	38.3	39.9	40.4	—	—	—	—	—	—
285	Paints and allied products	40.8	39.9	40.8	40.8	40.1	2.4	2.5	2.8	2.8	—
287	Agricultural chemicals	42.8	42.9	42.3	42.6	(*)	4.8	5.5	4.2	4.6	—
2871,2	Fertilizers, complete and mixing only	42.9	43.4	41.9	42.1	—	—	—	—	—	—
286,9	Other chemical products	42.9	42.2	41.4	41.5	40.6	3.7	3.6	3.3	3.5	—
2892	Explosives	42.5	41.4	41.2	40.2	—	—	—	—	—	—
29	PETROLEUM AND COAL PRODUCTS	42.4	41.6	43.6	43.7	43.2	3.4	3.2	4.2	4.2	—
291	Petroleum refining	42.4	42.1	43.4	43.4	(*)	3.1	3.1	3.8	3.8	—
295,9	Other petroleum and coal products	42.4	40.2	44.0	44.6	(*)	4.2	3.7	5.2	5.5	—
30	RUBBER AND PLASTICS PRODUCTS, NEC	41.9	40.7	41.1	41.3	39.6	4.0	4.0	3.5	3.5	—
301	Tires and inner tubes	47.4	47.4	43.0	42.8	(*)	7.9	8.2	4.4	4.5	—
302,3,6	Other rubber products	41.5	39.9	41.0	41.3	(*)	3.5	3.4	3.4	3.4	—
302	Rubber footwear	37.1	36.0	37.6	38.8	—	1.2	1.5	1.5	2.2	—
307	Miscellaneous plastics products	40.4	39.0	40.6	40.8	(*)	3.0	2.9	3.3	3.3	—
31	LEATHER AND LEATHER PRODUCTS	36.8	34.7	37.9	37.6	35.8	1.6	1.4	2.0	1.8	—
311	Leather tanning and finishing	39.3	37.4	40.1	40.3	40.1	2.8	2.7	3.1	2.9	—
314	Footwear, except rubber	36.4	34.3	37.7	37.4	(*)	1.4	1.2	1.8	1.7	—
312,3,5-7,9	Other leather products	36.9	34.9	37.6	37.1	(*)	1.6	1.4	2.1	1.7	—
316	Luggage	35.7	34.0	36.6	34.4	—	1.5	1.6	2.3	1.6	—
317	Handbags and personal leather goods	36.6	34.4	37.8	37.7	—	1.7	1.2	2.2	1.9	—
—	TRANSPORTATION AND PUBLIC UTILITIES	40.5	39.5	40.3	40.4	39.5	—	—	—	—	—
4011	RAILROAD TRANSPORTATION: Class I railroads ²	45.1	43.0	44.3	(*)	—	—	—	—	—	—
411	LOCAL AND INTERURBAN PASSENGER TRANSIT: Local and suburban transportation	39.8	39.1	38.9	39.0	—	—	—	—	—	—
413	Intercity highway transportation	37.5	37.5	36.7	35.8	—	—	—	—	—	—
42	TRUCKING AND WAREHOUSING	41.2	39.0	40.5	41.5	—	—	—	—	—	—
421,3	Trucking and trucking terminals	41.3	39.1	40.5	41.6	—	—	—	—	—	—
422	Public warehousing	40.5	38.3	39.7	39.8	—	—	—	—	—	—
46	PIPE LINE TRANSPORTATION	41.9	43.3	41.8	42.0	—	—	—	—	—	—
48	COMMUNICATION	39.5	39.4	41.0	40.3	—	—	—	—	—	—
481	Telephone communication	39.5	39.4	41.2	40.4	—	—	—	—	—	—
4817	Switchboard operating employees ³	33.7	33.3	37.0	36.3	—	—	—	—	—	—
4818	Line construction employees ⁴	43.3	42.9	46.1	45.9	—	—	—	—	—	—
482	Telegraph communication ⁵	41.0	42.8	(*)	(*)	—	—	—	—	—	—
483	Radio and television broadcasting	39.5	39.4	39.8	39.6	—	—	—	—	—	—

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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
-	TRANSPORTATION AND PUBLIC UTILITIES—Continued										
49	ELECTRIC, GAS, AND SANITARY SERVICES										
	Electric companies and systems	\$283.98	\$287.17	\$300.88	\$304.41	-	\$6.81	\$6.87	\$7.25	\$7.30	-
491	Gas companies and systems	287.31	291.75	306.18	310.70	-	6.89	6.93	7.29	7.38	-
492	Combination companies and systems	259.26	268.51	281.26	283.04	-	6.37	6.47	6.86	6.87	-
493	Water, steam, and sanitary systems	317.58	314.50	330.42	333.66	-	7.49	7.56	8.02	8.04	-
494-7		230.60	235.62	243.02	246.45	-	5.53	5.61	5.87	5.91	-
-	WHOLESALE AND RETAIL TRADE	137.97	136.78	144.87	146.73	\$145.67	4.07	4.17	4.39	4.38	\$4.51
50	WHOLESALE TRADE	208.26	208.29	222.12	226.18	224.06	5.34	5.41	5.71	5.77	5.85
501	Motor vehicles and automotive equipment	186.68	183.26	198.27	207.50	-	4.75	4.76	5.11	5.24	-
502	Drugs, chemicals, and allied products	216.22	225.61	231.55	237.23	-	5.69	5.86	6.03	6.13	-
503	Dry goods and apparel	175.28	182.47	185.42	186.58	-	4.75	4.84	5.08	5.07	-
504	Groceries and related products	204.23	203.42	221.95	227.76	-	5.21	5.27	5.78	5.84	-
506	Electrical goods	230.68	224.76	241.40	254.40	-	5.71	5.69	6.05	6.13	-
507	Hardware; plumbing and heating equipment	194.43	196.86	209.82	211.77	-	5.05	5.10	5.38	5.43	-
508	Machinery, equipment, and supplies	228.45	230.87	242.61	244.00	-	5.74	5.83	6.05	6.10	-
509	Miscellaneous wholesalers	207.13	203.63	217.93	220.99	-	5.38	5.43	5.69	5.74	-
52-58	RETAIL TRADE	118.63	116.00	122.70	125.12	123.01	3.65	3.73	3.92	3.91	4.02
53	Retail general merchandise [†]	110.10	103.53	114.16	117.98	-	3.43	3.57	3.78	3.71	-
531	Department stores [†]	111.94	105.45	117.11	121.34	-	3.52	3.70	3.93	3.84	-
532	Mail order houses	146.23	132.19	151.76	155.25	-	4.19	4.32	4.49	4.50	-
533	Variety stores	92.41	82.08	88.43	92.40	-	2.87	2.89	3.06	3.00	-
54	Food stores	146.17	146.38	154.72	156.17	-	4.47	4.56	4.85	4.85	-
541-3	Grocery, meat, and vegetable stores	150.68	150.66	159.22	161.03	-	4.58	4.65	4.96	4.97	-
56	Apparel and accessory stores	105.58	97.78	102.84	110.18	-	3.32	3.36	3.51	3.52	-
561	Men's and boys' clothing and furnishings	131.24	126.94	128.24	137.70	-	3.86	3.93	4.02	4.05	-
562	Women's ready-to-wear stores	91.49	83.88	89.21	96.39	-	2.99	3.05	3.13	3.15	-
565	Family clothing stores	106.57	100.60	100.89	108.07	-	3.21	3.32	3.42	3.42	-
566	Shoe stores	107.57	96.56	108.97	115.12	-	3.55	3.40	3.81	3.85	-
57	Furniture and home furnishings stores	158.47	151.37	159.49	167.07	-	4.26	4.24	4.48	4.54	-
571	Furniture and home furnishings	162.56	154.22	164.22	171.76	-	4.37	4.32	4.60	4.68	-
58	Eating and drinking places ⁶	77.83	76.95	79.92	80.16	-	2.82	2.85	2.96	2.98	-
52,55,59	Other retail trade	146.49	144.32	153.72	155.13	-	3.97	4.02	4.27	4.25	-
52	Building materials and farm equipment	164.74	159.68	175.72	176.12	-	4.16	4.18	4.46	4.47	-
551,2	Motor vehicle dealers	193.03	189.91	208.50	208.50	-	4.85	4.82	5.36	5.36	-
553,9	Other automotive and accessory dealers	167.60	167.96	180.40	180.29	-	4.19	4.22	4.51	4.53	-
591	Drug stores and proprietary stores	108.99	105.35	111.19	113.17	-	3.46	3.50	3.61	3.57	-
594	Book and stationery stores	124.12	123.18	128.90	130.93	-	3.64	3.79	3.93	3.92	-
598	Fuel and ice dealers	200.16	219.74	201.70	217.88	-	4.80	5.04	5.03	5.20	-
-	FINANCE, INSURANCE, AND REAL ESTATE⁷	162.58	166.34	172.39	173.01	177.14	4.43	4.52	4.71	4.74	4.84
60	Banking	136.14	139.45	143.75	144.47	-	3.74	3.81	3.96	3.98	-
61	Credit agencies other than banks	146.23	151.90	157.21	156.79	-	3.91	4.04	4.17	4.17	-
612	Savings and loan associations	140.21	147.77	149.11	147.94	-	3.81	3.93	4.03	4.02	-
62	Security, commodity brokers and services	285.70	294.88	284.19	(*)	-	7.44	7.76	7.42	(*)	-
63	Insurance carriers	174.00	176.63	182.90	185.01	-	4.64	4.71	4.93	4.96	-
631	Life insurance	170.38	172.24	179.19	180.79	-	4.58	4.63	4.83	4.86	-
632	Accident and health insurance	171.00	174.92	181.92	182.30	-	4.43	4.52	4.80	4.81	-
633	Fire, marine, and casualty insurance	176.53	179.52	184.50	186.61	-	4.72	4.80	5.00	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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^p	Jan. 1978 ^p	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^p	Jan. 1978 ^p
—	TRANSPORTATION AND PUBLIC UTILITIES—Continued										
49	ELECTRIC, GAS, AND SANITARY SERVICES										
	Electric companies and systems	41.7	41.8	41.5	41.7	—	—	—	—	—	—
491	Gas companies and systems	41.7	42.1	42.0	42.1	—	—	—	—	—	—
492	Combination companies and systems	40.7	41.5	41.0	41.2	—	—	—	—	—	—
493	Water, steam, and sanitary systems	42.4	41.6	41.2	41.5	—	—	—	—	—	—
494-7		41.7	42.0	41.4	41.7	—	—	—	—	—	—
—	WHOLESALE AND RETAIL TRADE	33.9	32.8	33.0	33.5	32.3	—	—	—	—	—
50	WHOLESALE TRADE	39.0	38.5	38.9	39.2	38.3	—	—	—	—	—
501	Motor vehicles and automotive equipment	39.3	38.5	38.8	39.6	—	—	—	—	—	—
502	Drugs, chemicals, and allied products	38.0	38.5	38.4	38.7	—	—	—	—	—	—
503	Dry goods and apparel	36.9	37.7	36.5	36.8	—	—	—	—	—	—
504	Groceries and related products	39.2	38.6	38.4	39.0	—	—	—	—	—	—
506	Electrical goods	40.4	39.5	39.9	41.5	—	—	—	—	—	—
507	Hardware; plumbing and heating equipment	38.5	38.6	39.0	39.0	—	—	—	—	—	—
508	Machinery, equipment, and supplies	39.8	39.6	40.1	40.0	—	—	—	—	—	—
509	Miscellaneous wholesalers	38.5	37.5	38.3	38.5	—	—	—	—	—	—
52-59	RETAIL TRADE	32.5	31.1	31.3	32.0	30.6	—	—	—	—	—
53	Retail general merchandise	32.1	29.0	30.2	31.8	—	—	—	—	—	—
531	Department stores	31.8	28.5	29.8	31.6	—	—	—	—	—	—
532	Mail order houses	34.9	30.6	33.8	34.5	—	—	—	—	—	—
533	Variety stores	32.2	28.4	28.9	30.8	—	—	—	—	—	—
54	Food stores	32.7	32.1	31.9	32.2	—	—	—	—	—	—
541-3	Grocery, meat, and vegetable stores	32.9	32.4	32.1	32.4	—	—	—	—	—	—
56	Apparel and accessory stores	31.8	29.1	29.3	31.3	—	—	—	—	—	—
561	Men's and boys' clothing and furnishings	34.0	32.3	31.9	34.0	—	—	—	—	—	—
562	Women's ready-to-wear stores	30.6	27.5	28.5	30.6	—	—	—	—	—	—
565	Family clothing stores	33.2	30.3	29.5	31.6	—	—	—	—	—	—
566	Shoe stores	30.3	28.4	28.6	29.9	—	—	—	—	—	—
57	Furniture and home furnishings stores	37.2	35.7	35.6	36.8	—	—	—	—	—	—
571	Furniture and home furnishings	37.2	35.7	35.7	36.7	—	—	—	—	—	—
58	Eating and drinking places ⁶	27.6	27.0	27.0	26.9	—	—	—	—	—	—
52,55,59	Other retail trade	36.9	35.9	36.0	36.5	—	—	—	—	—	—
52	Building materials and farm equipment	39.6	38.2	39.4	39.4	—	—	—	—	—	—
551,2	Motor vehicle dealers	39.8	39.4	38.9	38.9	—	—	—	—	—	—
553,9	Other automotive and accessory dealers	40.0	39.8	40.0	39.8	—	—	—	—	—	—
591	Drug stores and proprietary stores	31.5	30.1	30.8	31.7	—	—	—	—	—	—
594	Book and stationery stores	34.1	32.5	32.8	33.4	—	—	—	—	—	—
598	Fuel and ice dealers	41.7	43.6	40.1	41.9	—	—	—	—	—	—
—	FINANCE, INSURANCE, AND REAL ESTATE⁷	36.7	36.8	36.6	36.5	36.6	—	—	—	—	—
60	Banking	36.4	36.6	36.3	36.3	—	—	—	—	—	—
61	Credit agencies other than banks	37.4	37.6	37.7	37.6	—	—	—	—	—	—
612	Savings and loan associations	36.8	37.6	37.0	36.8	—	—	—	—	—	—
62	Security, commodity brokers and services	38.4	38.0	38.3	(*)	—	—	—	—	—	—
63	Insurance carriers	37.5	37.5	37.1	37.3	—	—	—	—	—	—
631	Life insurance	37.2	37.2	37.1	37.2	—	—	—	—	—	—
632	Accident and health insurance	38.6	38.7	37.9	37.9	—	—	—	—	—	—
633	Fire, marine, and casualty insurance	37.4	37.4	36.9	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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
—	SERVICES	\$ 150.97	\$ 153.18	\$ 161.68	\$ 162.84	\$ 165.00	\$ 4.52	\$ 4.50	\$ 4.87	\$ 4.89	\$ 4.97
701	Hotels and other lodging places: Hotels, tourist courts, and motels ⁶	97.92	99.48	103.43	103.85	—	3.20	3.23	3.38	3.45	—
721	Personal services: Laundries and dry cleaning plants	118.29	116.96	125.66	126.00	—	3.37	3.41	3.57	3.60	—
722	Photographic studios	122.36	116.60	140.79	138.02	—	3.62	3.69	3.90	3.91	—
781	Motion pictures: Motion picture filming and distributing ...	267.92	270.18	348.57	356.06	—	6.80	6.91	8.78	8.77	—
806	Hospitals	148.34	150.28	164.79	165.31	—	4.35	4.42	4.89	4.92	—

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.

p=preliminary.

*Not available.

** Corrected data for April 1976 are:

Item	SIC 3312		SIC 331		SIC 33	
	Original estimate	Corrected estimate	Original estimate	Corrected estimate	Original estimate	Corrected estimate
Average hourly earnings	\$ 7.94	\$ 7.88	\$ 7.74	\$ 7.88	\$ 6.77	\$ 6.74
Average weekly earnings	\$ 329.51	\$ 329.33	\$ 319.86	\$ 319.49	\$ 274.19	\$ 274.32
Average weekly hours	41.5	41.9	41.3	41.6	40.5	40.7
Average overtime hours	3.3	3.7	3.2	3.5	3.1	3.2

**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				
		Dec. 1976	Jan. 1977	Nov. 1977	Dec. P 1977	Jan. P 1978	Dec. 1976	Jan. 1977	Nov. 1977	Dec. P 1977	Jan. P 1978
-	SERVICES	33.4	33.3	33.2	33.3	33.2	-	-	-	-	-
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels ⁶	30.6	30.8	30.6	30.1	-	-	-	-	-	
	Personal services:										
721	Laundries and dry cleaning plants	35.1	34.3	35.2	35.0	-	-	-	-	-	
722	Photographic studios	33.8	31.6	36.1	35.3	-	-	-	-	-	
	Motion pictures:										
781	Motion picture filming and distributing	39.4	39.1	39.7	40.6	-	-	-	-	-	
806	Hospitals	34.1	34.0	33.7	33.6	-	-	-	-	-	

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								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Executive Branch													
Total employment	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	3,720.3	2,704.7	2,665.4
Average weekly hours	39.3	39.9	39.6	40.4	39.4	39.5	39.3	39.2	39.2	39.3	39.7	39.7	39.4
Average overtime hours	1.1	1.4	1.2	2.0	1.0	1.0	.9	.9	.9	1.0	1.1	1.2	1.3
Indexes (1967=100):													
Average weekly earnings	199.5	209.7	208.6	215.9	208.9	209.2	208.7	208.7	209.2	208.9	211.1	212.7	214.9
Average hourly earnings	200.0	207.0	207.6	210.5	208.9	208.6	209.2	209.7	210.3	209.5	209.5	211.1	214.9
Department of Defense													
Total employment	917.2	918.0	920.4	919.6	918.4	917.6	918.4	917.4	920.0	932.0	931.6	922.0	909.1
Average weekly hours	39.9	39.9	40.2	40.0	39.9	40.0	39.9	39.6	39.9	39.9	40.0	40.0	39.9
Average overtime hours . . . . .	.9	.8	.8	.7	.7	.7	.7	.7	.7	.8	.7	.8	1.1
Indexes (1967=100):													
Average weekly earnings	195.1	201.5	204.4	203.7	202.3	204.2	203.9	204.3	204.8	203.7	203.4	204.2	208.0
Average hourly earnings	197.0	203.5	204.9	205.2	204.4	205.7	206.0	207.9	206.8	205.7	204.9	205.7	210.1
Postal service													
Total employment	662.8	657.9	664.9	685.7	650.0	649.9	652.3	650.7	652.9	655.6	657.5	656.8	655.0
Average weekly hours	39.6	42.1	40.6	43.8	40.4	40.4	39.6	39.7	39.3	39.3	40.4	39.9	40.1
Average overtime hours	1.4	2.9	2.2	5.5	1.9	1.4	1.2	1.2	1.0	1.1	1.5	1.4	1.7
Indexes (1967=100):													
Average weekly earnings	226.8	243.7	237.6	267.8	240.0	238.0	233.3	234.9	235.6	235.0	241.9	248.6	251.5
Average hourly earnings	221.0	223.5	225.9	236.0	229.3	227.4	227.4	228.4	231.4	230.8	231.1	240.5	242.1
Other agencies													
Total employment	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	1,125.9	1,101.3
Average weekly hours	38.6	38.7	38.6	38.4	38.2	38.5	38.5	38.6	38.6	38.6	39.0	39.3	38.7
Average overtime hours	1.2	1.1	1.0	.9	.8	.9	.9	.9	1.0	1.1	1.3	1.5	1.2
Indexes (1967=100):													
Average weekly earnings	188.6	199.0	197.5	197.4	197.2	197.5	198.2	198.0	198.7	197.5	200.5	200.1	201.7
Average hourly earnings	189.6	199.5	198.5	199.5	200.2	199.0	199.8	199.0	199.8	198.5	199.5	197.5	202.2

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				
	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^p	Jan. 1978 ^p
MANUFACTURING	\$5.21	\$5.25	\$5.56	\$5.63	\$5.69
DURABLE GOODS	5.55	5.59	5.94	6.01	6.05
Ordnance and accessories	5.84	5.85	6.23	6.30	-
Lumber and wood products	4.67	4.75	4.98	4.99	-
Furniture and fixtures	4.02	4.07	4.28	4.32	-
Stone, clay, and glass products	5.22	5.27	5.62	5.65	-
Primary metal industries	6.73	6.75	7.42	7.43	-
Fabricated metal products	5.39	5.37	5.76	5.79	-
Machinery, except electrical	5.73	5.77	6.11	6.16	-
Electrical equipment and supplies	4.98	5.01	5.32	5.39	-
Transportation equipment	6.57	6.60	7.04	7.17	-
Instruments and related products	4.92	4.96	5.17	5.23	-
Miscellaneous manufacturing industries	4.08	4.15	4.30	4.37	-
NONDURABLE GOODS	4.71	4.77	5.00	5.05	5.14
Food and kindred products	4.92	4.99	5.23	5.32	-
Tobacco manufactures	4.90	5.03	5.37	5.56	-
Textile mill products	3.67	3.68	3.92	3.94	-
Apparel and other textile products	3.47	3.52	3.63	3.68	-
Paper and allied products	5.38	5.41	5.80	5.84	-
Printing and publishing	(²)	(²)	(²)	(²)	-
Chemicals and allied products	5.91	5.94	6.36	6.38	-
Petroleum and coal products	7.01	7.12	7.45	7.50	-
Rubber and plastics products, nec	4.78	4.84	5.00	5.03	-
Leather and leather products	3.45	3.50	3.61	3.62	-

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		
	Dec. 1976	Nov. 1977	Dec. 1977 ^p	Dec. 1976	Nov. 1977	Dec. 1977 ^p	Dec. 1976	Nov. 1977	Dec. 1977 ^p
TOTAL PRIVATE:									
Current dollars	\$ 182.73	\$ 195.30	\$ 196.38	\$ 148.55	\$ 161.25	\$ 162.03	\$ 161.34	\$ 177.66	\$ 178.49
1967 dollars	104.84	105.34	105.32	85.23	86.97	87.07	92.56	95.83	95.91
MINING:									
Current dollars	293.23	320.14	291.04	228.41	244.21	225.07	245.35	269.78	249.29
1967 dollars	168.23	172.68	156.39	131.04	131.72	120.94	140.76	145.51	133.95
CONTRACT CONSTRUCTION:									
Current dollars	289.98	299.94	300.30	226.27	230.88	231.12	242.89	255.55	255.80
1967 dollars	166.37	161.78	161.36	129.82	124.53	124.19	139.35	137.84	137.45
MANUFACTURING:									
Current dollars	220.05	235.89	241.67	175.86	189.46	193.29	189.39	208.13	212.39
1967 dollars	126.25	127.23	129.86	100.90	102.19	103.86	108.66	112.26	114.13
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	269.33	290.56	292.50	211.58	224.76	226.03	127.18	248.94	250.37
1967 dollars	154.52	156.72	157.17	121.39	121.23	121.46	130.34	134.27	134.54
WHOLESALE AND RETAIL TRADE:									
Current dollars	137.97	144.87	146.73	115.52	123.85	125.25	128.37	136.40	138.15
1967 dollars	79.16	78.14	78.84	66.28	66.80	67.30	73.65	73.57	74.23
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	162.58	172.39	173.01	134.01	144.72	145.17	145.95	159.59	160.08
1967 dollars	93.28	92.98	92.97	76.88	78.06	78.01	83.73	86.08	86.02
SERVICES:									
Current dollars	150.97	161.68	162.84	125.29	136.48	137.36	137.23	151.14	152.06
1967 dollars	86.62	87.21	87.50	71.88	73.61	73.81	78.73	81.52	81.71
CONSUMER PRICE INDEX (All items, 1967 = 100)	174.3	185.4	186.1	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	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^p	Jan. 1978 ^p
	Hours				
TOTAL	114.9	108.9	118.1	119.2	112.6
GOODS-PRODUCING	97.8	90.9	104.2	103.0	95.6
MINING	133.6	127.1	146.3	112.9	110.9
CONTRACT CONSTRUCTION	100.9	80.8	117.7	110.3	90.3
MANUFACTURING	96.0	91.5	100.3	101.4	96.0
DURABLE GOODS	95.7	91.1	101.0	103.1	97.6
Ordnance and accessories	40.5	39.2	38.6	40.2	39.2
Lumber and wood products	99.9	94.0	107.6	107.3	101.1
Furniture and fixtures	105.9	96.9	113.9	115.9	107.6
Stone, clay, and glass products	98.3	90.1	108.1	106.6	98.6
Primary metal industries	85.9	84.6	88.8	90.3	88.9
Fabricated metal products	100.4	95.5	107.4	109.7	103.2
Machinery, except electrical	99.7	96.0	106.3	110.1	106.0
Electrical equipment and supplies	95.9	90.9	102.0	103.3	99.4
Transportation equipment	94.8	89.9	96.7	101.5	92.1
Instruments and related products	112.9	107.6	115.4	116.9	111.2
Miscellaneous manufacturing	91.8	86.1	96.2	92.9	87.8
NONDURABLE GOODS	96.4	92.0	99.3	98.9	93.6
Food and kindred products	95.5	89.6	96.2	94.2	88.5
Tobacco manufactures	89.4	76.7	82.9	79.1	70.2
Textile mill products	97.5	94.3	102.1	102.0	97.6
Apparel and other textile products	86.0	80.6	90.3	88.8	81.2
Paper and allied products	98.9	95.2	101.0	102.9	98.3
Printing and publishing	96.4	91.7	96.8	98.3	94.0
Chemicals and allied products	100.9	99.2	103.3	104.1	101.7
Petroleum and coal products	113.4	109.0	125.4	124.5	121.1
Rubber and plastics products, nec	129.4	126.4	135.5	136.1	129.8
Leather and leather products	71.0	66.7	74.3	72.5	67.0
SERVICE-PRODUCING	126.8	121.3	127.8	130.4	124.5
TRANSPORTATION AND PUBLIC UTILITIES	104.8	100.8	105.6	105.8	101.5
WHOLESALE AND RETAIL TRADE	126.0	116.2	123.5	128.9	118.5
WHOLESALE TRADE	116.7	113.9	119.7	120.9	117.2
RETAIL TRADE	129.5	117.1	124.9	131.9	119.0
FINANCE, INSURANCE, AND REAL ESTATE	129.2	128.7	134.0	134.2	133.3
SERVICES	137.3	135.5	142.0	142.6	140.6

¹ For 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	Dec. 1976	Jan. 1977	Nov. 1977	Dec. 1977 ^P	Jan. 1978 ^P
	Payrolls				
TOTAL	215.3	206.0	238.8	240.8	230.0
GOODS-PRODUCING	188.8	175.3	215.6	213.6	198.2
MINING	281.1	269.7	327.1	235.7	238.6
CONTRACT CONSTRUCTION	193.4	156.5	235.9	221.3	180.8
MANUFACTURING	184.0	176.4	206.1	210.8	201.0
DURABLE GOODS	184.4	176.1	208.9	215.8	205.0
Ordnance and accessories	76.9	74.6	78.3	82.7	80.7
Lumber and wood products	206.0	196.7	237.3	237.0	228.3
Furniture and fixtures	188.0	173.0	216.6	223.2	207.8
Stone, clay, and glass products	190.6	175.8	227.6	225.5	208.9
Primary metal industries	179.9	177.9	206.5	210.8	209.5
Fabricated metal products	189.5	179.0	217.4	223.2	210.0
Machinery, except electrical	187.4	180.9	213.5	223.9	216.4
Electrical equipment and supplies	178.1	169.2	202.7	208.6	201.7
Transportation equipment	191.3	181.7	210.1	223.5	201.1
Instruments and related products	201.6	192.8	216.0	222.3	214.0
Miscellaneous manufacturing	163.4	155.5	181.6	178.2	169.1
NONDURABLE GOODS	183.5	177.0	201.1	202.3	194.3
Food and kindred products	186.8	177.1	200.5	199.0	187.4
Tobacco manufactures	198.5	174.4	203.5	200.6	185.8
Textile mill products	181.4	175.6	203.6	204.5	197.9
Apparel and other textile products	149.2	141.7	164.8	163.8	154.0
Paper and allied products	195.0	188.5	215.6	221.4	212.0
Printing and publishing	172.3	165.5	184.6	188.2	182.0
Chemicals and allied products	199.5	197.4	219.8	222.9	220.3
Petroleum and coal products	231.0	225.5	273.8	273.5	276.7
Rubber and plastics products, nec	236.1	233.4	257.5	260.0	249.3
Leather and leather products	121.2	115.1	133.2	130.1	123.0
SERVICE-PRODUCING	238.2	232.4	258.7	264.1	257.4
TRANSPORTATION AND PUBLIC UTILITIES	215.4	208.6	235.1	236.6	227.4
WHOLESALE AND RETAIL TRADE	228.7	216.0	241.4	251.6	238.1
WHOLESALE TRADE	216.6	213.9	237.5	242.5	238.3
RETAIL TRADE	235.1	217.1	243.5	256.5	238.0
FINANCE, INSURANCE, AND REAL ESTATE	221.6	225.4	244.4	246.2	249.9
SERVICES	271.2	272.1	301.9	304.5	305.1

¹ For 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	1977												1978
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. P	Jan. P
TOTAL PRIVATE	35.8	36.2	36.2	36.2	36.3	36.2	36.1	36.0	36.0	36.2	36.2	36.2	35.7
MINING	43.1	43.5	44.2	44.3	44.1	44.1	44.8	44.2	44.3	44.6	44.6	43.6	43.6
CONTRACT CONSTRUCTION	35.4	37.5	37.2	37.3	37.4	36.8	36.9	36.5	36.4	36.8	36.9	36.8	35.0
MANUFACTURING	39.5	40.3	40.4	40.3	40.4	40.5	40.2	40.3	40.3	40.4	40.5	40.5	39.7
<i>Overtime hours</i>	3.2	3.3	3.3	3.4	3.4	3.4	3.4	3.3	3.3	3.5	3.5	3.5	3.5
DURABLE GOODS	40.0	40.8	41.0	40.8	41.0	41.2	40.9	40.9	41.0	41.2	41.1	41.2	40.3
<i>Overtime hours</i>	3.4	3.4	3.5	3.5	3.6	3.6	3.6	3.5	3.5	3.8	3.7	3.7	3.7
Ordnance and accessories	40.6	40.8	40.7	41.0	41.1	40.8	40.3	40.2	40.6	40.8	40.2	40.8	40.6
Lumber and wood products	40.0	40.4	40.2	40.0	40.0	39.9	40.4	39.6	40.0	40.1	40.3	40.1	39.8
Furniture and fixtures	36.9	38.2	38.6	38.5	38.7	38.9	38.8	39.0	39.2	39.5	39.4	39.4	37.9
Stone, clay, and glass products	40.0	41.4	41.4	41.7	41.6	41.6	41.4	41.4	41.0	41.1	41.8	41.8	40.8
Primary metal industries	40.1	40.7	41.1	41.4	41.5	41.5	41.1	41.0	40.9	41.3	41.3	41.4	40.9
Fabricated metal products	39.8	40.8	41.0	40.8	41.0	41.3	41.0	40.9	40.9	41.1	41.1	41.4	40.3
Machinery, except electrical	40.5	41.4	41.5	41.4	41.6	42.0	41.8	41.8	41.8	42.0	41.9	41.9	41.4
Electrical equipment and supplies	39.4	40.5	40.3	40.1	40.2	40.4	40.2	40.3	40.3	40.3	40.2	40.3	39.7
Transportation equipment	41.6	41.6	42.6	42.0	42.5	42.8	42.0	42.3	42.6	42.7	42.5	42.3	41.1
Instruments and related products	39.7	40.9	40.4	40.3	40.4	40.7	40.3	40.3	40.3	40.6	40.4	40.3	39.4
Miscellaneous manufacturing, Ind.	38.1	39.5	39.2	39.0	39.0	39.3	38.7	38.8	39.0	39.1	39.0	38.9	38.2
NONDURABLE GOODS	38.8	39.5	39.5	39.6	39.5	39.5	39.3	39.3	39.3	39.4	39.5	39.5	38.7
<i>Overtime hours</i>	3.0	3.2	3.1	3.2	3.2	3.1	3.0	3.1	3.0	3.1	3.2	3.1	3.1
Food and kindred products	39.4	40.3	40.2	40.3	40.0	40.0	39.8	39.7	39.5	39.5	39.8	39.7	39.2
Tobacco manufactures	36.1	39.1	38.2	38.2	38.4	38.7	38.6	37.8	38.6	38.2	38.8	38.0	37.2
Textile mill products	40.1	40.5	40.7	40.5	40.5	40.3	40.1	40.2	40.3	40.5	40.7	40.7	40.2
Apparel and other textile products	34.2	35.6	35.6	35.3	35.6	35.8	35.3	35.5	35.3	35.6	35.7	35.8	33.9
Paper and allied products	41.9	42.7	42.8	43.5	42.9	43.1	42.7	42.4	42.7	42.8	42.7	42.9	42.0
Printing and publishing	37.5	37.8	37.7	37.8	37.6	37.7	37.8	37.7	38.0	37.9	37.9	37.8	37.6
Chemicals and allied products	41.6	41.7	41.8	41.8	41.7	41.9	41.7	41.8	41.7	41.6	41.7	41.6	41.3
Petroleum and coal products	42.3	42.4	42.9	42.7	42.6	43.1	42.8	43.0	42.8	43.2	43.3	43.7	43.9
Rubber and plastics products, nec	40.9	41.3	41.2	41.3	41.3	41.2	40.6	40.8	40.7	40.9	40.9	40.8	39.8
Leather and leather products	35.3	36.8	36.5	37.3	37.1	37.2	36.8	37.3	37.6	37.7	37.8	37.2	36.4
TRANSPORTATION AND PUBLIC UTILITIES	39.8	40.5	40.3	40.1	40.3	40.1	39.9	40.0	39.9	39.7	40.3	40.3	39.8
WHOLESALE AND RETAIL TRADE	33.3	33.4	33.4	33.4	33.5	33.3	33.3	33.2	33.2	33.5	33.2	33.3	32.8
WHOLESALE TRADE	38.7	39.1	38.9	38.9	38.8	38.8	38.8	38.8	38.8	39.1	38.9	38.8	38.5
RETAIL TRADE	31.7	31.8	31.8	31.8	31.9	31.7	31.7	31.6	31.6	31.9	31.6	31.7	31.2
FINANCE, INSURANCE, AND REAL ESTATE	36.7	36.6	36.7	36.6	36.7	36.6	36.6	36.7	36.6	36.7	36.7	36.5	36.5
SERVICES	33.5	33.5	33.5	33.5	33.5	33.3	33.2	33.2	33.2	33.5	33.3	33.4	33.4

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	1977												1978
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. P	Jan. P
Average hourly earnings													
TOTAL PRIVATE	\$5.07	\$5.10	\$5.13	\$5.17	\$5.20	\$5.22	\$5.27	\$5.28	\$5.32	\$5.38	\$5.41	\$5.42	\$5.47
MINING	6.69	6.71	6.77	6.79	6.82	6.91	6.95	6.92	7.03	7.13	7.12	6.62	6.79
CONTRACT CONSTRUCTION	7.92	7.90	7.91	7.95	7.97	8.04	8.06	8.08	8.09	8.17	8.18	8.19	8.31
MANUFACTURING	5.43	5.45	5.49	5.53	5.57	5.61	5.66	5.68	5.73	5.79	5.81	5.83	5.89
TRANSPORTATION AND PUBLIC UTILITIES	6.70	6.74	6.76	6.83	6.88	6.88	7.00	6.93	7.03	7.11	7.18	7.24	7.25
WHOLESALE AND RETAIL TRADE	4.15	4.17	4.20	4.23	4.24	4.26	4.30	4.31	4.33	4.37	4.39	4.42	4.48
FINANCE, INSURANCE, AND REAL ESTATE	4.52	4.48	4.50	4.53	4.56	4.54	4.60	4.61	4.65	4.74	4.74	4.74	4.84
SERVICES	4.58	4.58	4.61	4.64	4.66	4.67	4.72	4.76	4.78	4.85	4.86	4.87	4.95
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	181.51	184.62	185.71	187.15	188.76	188.96	190.25	190.08	191.52	194.76	195.84	196.20	195.28
1967 dollars	103.37	104.13	104.10	104.09	104.34	103.88	104.19	103.76	104.20	105.68	105.75	105.54	-
Real spendable earnings (worker and 3 dependents, 1967 dollars)	91.36	91.80	91.69	91.58	91.69	94.93	95.12	94.73	95.04	96.16	96.16	95.94	-

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	1977												1978
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^p	Jan. ^p
TOTAL	112.3	114.2	115.0	115.4	115.9	115.8	115.8	115.6	115.9	116.8	117.2	117.6	116.3
GOODS-PRODUCING	95.2	98.6	100.1	100.8	101.4	101.8	101.4	100.6	100.9	101.7	102.3	102.3	100.1
MINING	131.3	134.3	140.6	141.6	140.6	142.3	139.9	134.7	142.5	143.9	144.8	113.0	114.3
CONTRACT CONSTRUCTION	95.9	105.8	108.7	111.7	112.4	111.8	112.8	110.8	110.4	112.3	114.0	113.9	107.2
MANUFACTURING	93.9	96.1	97.2	97.5	98.1	98.7	98.0	97.6	97.8	98.4	98.8	99.8	98.4
DURABLE GOODS	93.2	95.2	96.8	96.9	97.8	98.7	98.3	98.1	98.4	99.3	99.5	100.9	99.7
Ordnance and accessories	39.1	39.3	39.2	40.1	40.7	41.0	40.5	39.3	39.1	38.2	38.2	39.3	39.1
Lumber and wood products	101.4	103.0	103.6	103.5	104.1	104.0	105.3	104.0	106.0	106.8	109.5	109.3	109.1
Furniture and fixtures	98.7	103.2	105.3	106.1	107.1	107.9	108.4	107.2	108.3	110.6	111.7	113.0	109.4
Stone, clay, and glass products	96.6	97.4	101.7	103.9	104.2	105.4	104.9	104.1	103.3	103.2	106.7	107.7	105.7
Primary metal industries	85.2	85.9	88.6	89.7	90.7	90.9	89.0	88.2	89.0	89.7	89.5	89.7	89.5
Fabricated metal products	97.3	100.3	101.7	101.3	102.8	104.2	103.7	103.3	103.1	105.0	105.7	107.5	105.1
Machinery, except electrical	95.2	97.9	98.7	98.8	100.2	101.6	103.2	103.5	103.6	105.5	104.9	106.2	105.2
Electrical equipment and supplies	91.9	95.6	96.1	96.3	97.2	97.9	98.3	98.3	97.8	98.8	99.4	100.6	100.2
Transportation equipment	93.4	92.9	96.4	94.7	95.3	96.5	94.8	95.4	96.5	96.2	94.5	97.3	95.4
Instruments and related products	108.7	112.7	111.6	111.7	112.3	113.2	111.7	111.3	112.4	113.2	113.4	114.1	112.2
Miscellaneous manufacturing, Ind.	92.5	96.5	95.5	95.0	94.7	94.6	91.4	91.3	90.3	91.1	91.5	94.5	94.5
NONDURABLE GOODS	94.9	97.3	97.7	98.5	98.5	98.7	97.7	96.9	96.9	97.1	97.8	98.2	96.5
Food and kindred products	94.9	97.5	97.8	98.5	97.3	97.3	95.9	94.5	94.1	92.8	94.2	94.5	93.6
Tobacco manufactures	76.1	82.4	75.1	80.5	78.2	80.2	77.2	71.7	73.2	72.4	72.2	72.1	70.5
Textile mill products	96.7	98.1	99.4	99.6	100.2	99.7	99.9	98.9	99.4	100.2	101.4	101.2	99.9
Apparel and other textile products	84.1	87.9	88.1	87.7	88.6	89.8	87.6	87.8	87.2	87.8	88.6	89.2	84.8
Paper and allied products	96.2	98.2	98.6	100.8	100.4	101.1	100.3	99.4	99.7	100.2	99.6	101.4	99.6
Printing and publishing	93.4	94.6	94.5	95.2	95.1	95.3	95.6	95.1	95.7	95.7	95.9	95.7	95.5
Chemicals and allied products	100.7	101.6	102.2	102.9	103.3	103.8	103.7	103.4	103.0	102.6	103.0	103.3	103.2
Petroleum and coal products	115.0	114.4	118.4	119.6	119.3	121.6	119.9	120.4	120.8	122.8	124.8	126.0	127.5
Rubber and plastics products, nec	128.0	131.8	132.9	134.8	135.3	133.9	132.5	129.7	129.3	130.5	132.5	134.4	131.6
Leather and leather products	69.1	72.1	71.8	73.4	73.3	72.9	69.9	71.8	72.7	73.8	73.7	71.9	69.7
SERVICE-PRODUCING	124.1	125.0	125.3	125.5	125.9	125.6	125.8	126.1	126.4	127.2	127.5	128.3	127.5
TRANSPORTATION AND PUBLIC UTILITIES	120.7	104.4	104.1	103.8	104.6	104.1	103.1	103.5	103.9	102.9	105.1	105.8	103.5
WHOLESALE AND RETAIL TRADE	119.4	120.3	120.7	121.0	121.4	121.2	121.6	121.6	121.8	122.7	122.4	123.1	121.9
WHOLESALE TRADE	115.4	117.1	116.9	117.3	117.3	117.3	117.5	117.5	117.8	118.7	118.8	118.9	118.7
RETAIL TRADE	120.8	121.6	122.1	122.4	123.0	122.7	123.1	123.1	123.3	124.2	123.7	124.6	123.2
FINANCE, INSURANCE, AND REAL ESTATE	130.1	130.2	131.0	131.0	131.6	131.7	132.3	132.7	133.2	134.2	134.9	134.5	134.7
SERVICES	138.8	139.3	139.8	140.1	140.3	139.6	140.1	140.6	140.9	142.7	142.6	143.9	144.1

¹ For 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		
	NOVEMBER 1977	DECEMBER 1977 ^p	JANUARY 1978 ^p	Jan. 1977 to Jan. 1978	Nov. 1977 to Dec. 1977	Dec. 1977 to Jan. 1978
TOTAL	158,095	158,554	157,699	3.6	0.3	- 0.5
PRIVATE SECTOR	128,371	128,734	127,614	3.7	0.3	- 0.9
MINING	2,002	1,616	1,632	-10.9	-19.2	1.0
CONTRACT CONSTRUCTION	7,579	7,570	7,187	10.0	- 0.1	- 5.1
MANUFACTURING	41,176	41,566	41,142	4.3	0.9	- 1.0
DURABLE GOODS	24,606	24,920	24,700	5.9	1.3	- 0.9
NONDURABLE GOODS	16,570	16,646	16,442	1.9	0.5	- 1.2
TRANSPORTATION AND PUBLIC UTILITIES	9,711	9,745	9,578	1.9	0.3	- 1.7
WHOLESALE AND RETAIL TRADE	32,104	32,293	32,018	2.5	0.6	- 0.9
FINANCE, INSURANCE, AND REAL ESTATE	8,773	8,748	8,767	4.0	- 0.3	0.2
SERVICES	27,027	27,197	27,290	4.4	0.6	0.3
GOVERNMENT	29,724	29,819	30,085	3.0	0.3	0.9

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			
	1976	1977 _p	II _r	III _r	IV _r	I _r	II _r	III _r	IV _r	I _r	II _r	III _r	IV _p
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	116.5	119.3	111.7	113.8	113.3	115.4	116.4	117.2	117.2	118.9	118.6	120.2	120.6
Output	126.9	134.6	117.2	120.6	121.8	124.9	126.7	127.7	128.4	131.3	134.0	135.7	137.3
Hours	108.9	112.8	104.9	106.0	107.5	108.2	108.9	109.0	109.6	110.4	113.0	112.9	113.9
Compensation per hour	196.5	213.6	179.2	181.1	184.6	190.5	194.5	198.6	202.7	208.4	211.7	216.0	219.7
Real compensation per hour	115.3	117.7	112.3	111.2	111.6	113.9 ¹	114.9	115.6	116.7	117.7	117.0	117.9	118.7
Unit labor costs	168.7	179.0	160.4	159.1	163.0	165.1	167.1	169.4	173.0	175.2	178.5	179.7	182.2
Unit nonlabor payments	159.9	165.0	149.1	159.8	159.0	158.7	160.5	160.8	159.5	160.4	163.0	167.0	169.1
Implicit price deflator	165.6	174.2	156.5	159.4	161.6	162.9	164.8	166.5	168.3	170.1	173.1	175.4	177.7
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	114.3	116.7	109.6	112.0	111.0	112.9	114.5	115.2	114.6	116.1	116.3	117.4	117.8
Output	127.4	134.9	117.1	120.6	121.8	125.2	127.2	128.3	128.7	131.6	134.5	136.0	137.5
Hours	111.4	115.7	106.8	107.7	109.7	111.0	111.2	111.4	112.3	113.4	115.6	115.9	116.8
Compensation per hour	193.1	209.6	176.3	179.1	181.9	186.9	191.3	195.2	198.7	204.3	208.1	211.9	215.7
Real compensation per hour	113.3	115.5	110.5	110.0	110.0	111.7	113.1	113.7	114.4	115.3	115.0	115.6	116.5
Unit labor costs	168.9	179.7	160.9	160.0	163.9	165.6	167.1	169.5	173.3	176.0	178.9	180.5	183.2
Unit nonlabor payments	157.4	163.0	145.4	154.4	153.6	155.3	156.8	159.2	158.1	157.2	160.7	166.3	167.1
Implicit price deflator	165.0	174.0	155.6	158.1	160.3	162.1	163.6	166.0	168.1	169.6	172.7	175.6	177.7
MANUFACTURING:													
Output per hour of all persons	124.2	126.9	114.1	120.5	121.2	122.1	124.3	125.5	125.0	125.0	126.2	127.8	127.6
Output	120.0	127.0	103.8	111.2	114.3	117.8	119.9	121.1	121.2	123.0	126.5	128.3	129.2
Hours	96.6	100.1	91.0	92.3	94.3	96.4	96.5	96.5	97.0	98.4	100.3	100.4	101.3
Compensation per hour	194.8	211.9	178.4	180.8	183.5	189.0	193.7	196.7	200.0	206.1	210.1	213.6	217.8
Real compensation per hour	114.3	116.7	111.8	111.0	110.9	113.0	114.5	114.5	115.2	116.4	116.2	116.6	117.6
Unit labor costs	156.9	167.0	156.4	150.0	151.5	154.8	155.9	156.7	160.0	164.9	166.5	167.2	170.7
DURABLE GOODS													
Output per hour of all persons	120.3	122.1	110.0	116.8	116.8	118.0	120.7	121.9	120.8	120.3	122.1	123.2	122.6
Output	114.9	122.2	99.1	105.6	107.7	111.7	114.9	116.8	116.2	117.6	121.8	124.0	124.9
Hours	99.5	100.0	90.0	90.4	92.2	94.6	95.2	95.8	96.2	97.7	99.8	100.6	101.9
Compensation per hour	197.0	213.7	179.7	182.9	185.8	191.6	196.4	198.8	201.1	207.5	212.3	215.3	219.6
Real compensation per hour	115.5	117.8	112.6	112.3	112.3	114.6	116.1	115.8	115.8	117.2	117.4	117.5	118.6
Unit labor costs	163.7	175.0	163.4	156.6	159.1	162.4	162.8	163.1	166.6	172.5	173.9	174.8	179.2
NONDURABLE GOODS													
Output per hour of all persons	130.5	134.5	120.7	126.6	128.2	128.8	130.1	131.3	131.8	132.6	132.8	135.2	135.8
Output	128.3	134.9	111.4	120.3	124.9	127.6	128.1	128.1	129.4	131.7	134.2	135.3	136.3
Hours	98.3	100.2	92.3	95.0	97.4	99.1	98.4	97.5	98.2	99.3	101.1	100.0	100.4
Compensation per hour	191.7	208.8	176.6	178.3	180.8	185.5	189.9	193.4	198.4	204.0	206.6	210.6	214.2
Real compensation per hour	112.5	115.0	110.7	109.5	109.3	110.9	112.2	112.6	114.2	115.2	114.2	115.0	115.7
Unit labor costs	147.0	155.2	146.4	140.8	141.0	144.0	145.9	147.3	150.6	153.9	155.6	155.7	157.8
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	117.2	N.A.	112.8	115.4	114.8	116.2	117.5	118.0	117.2	118.9	119.4	120.7	N.A.
Output	133.9	N.A.	122.7	126.9	128.2	131.8	134.0	135.0	135.0	138.0	141.4	143.1	N.A.
Hours	114.3	N.A.	108.7	110.0	111.7	113.4	114.1	114.4	115.2	116.1	118.4	118.6	N.A.
Compensation per hour	194.9	N.A.	178.1	180.8	183.8	189.1	193.2	196.9	200.6	206.7	210.5	214.2	N.A.
Real compensation per hour	114.3	N.A.	111.6	111.0	111.1	113.0	114.2	114.7	115.5	116.7	116.4	116.9	N.A.
Total unit costs	166.3	N.A.	165.5	164.4	167.6	168.8	170.3	172.5	176.8	179.0	180.6	182.3	N.A.
Unit labor costs	190.1	N.A.	157.9	156.6	160.2	162.7	164.5	166.8	171.2	173.9	176.2	177.4	N.A.
Unit nonlabor costs	172.1	N.A.	189.3	188.5	190.6	187.7	188.3	190.1	194.1	195.0	194.3	197.5	N.A.
Unit profits	113.2	N.A.	87.8	111.2	107.8	113.1	115.0	117.7	107.0	103.7	115.5	123.1	N.A.
Implicit price deflator	163.4	N.A.	154.0	156.5	158.7	160.5	162.1	164.3	166.4	167.8	170.9	173.5	N.A.

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					
	II 1976 to III 1976	III 1976 to IV 1976	IV 1976 to I 1977	I 1977 to II 1977	II 1977 to III 1977	III 1977 to IV 1977	III 1975 to III 1976	IV 1975 to IV 1976	I 1976 to I 1977	II 1976 to II 1977	III 1976 to III 1977	IV 1976 to IV 1977 ^p
	PRIVATE BUSINESS SECTOR:											
Output per hour of all persons	2.8	-0.1	6.1	-1.0	5.4	1.4	3.0	3.5	3.0	1.9	2.5	2.9
Output	3.1	2.1	9.6	8.5	5.2	4.8	5.9	5.4	5.1	5.8	6.3	7.0
Hours	0.3	2.2	3.3	9.5	-0.2	3.4	2.8	1.9	2.0	3.8	3.6	4.0
Compensation per hour	8.7	8.5	11.8	6.5	8.5	7.0	9.7	9.8	9.4	8.9	8.8	8.4
Real compensation per hour	2.4	3.7	3.4	-2.1	3.0	2.6	4.0	4.6	3.3	1.8	2.0	1.7
Unit labor costs	5.8	8.6	5.4	7.6	2.9	5.6	6.5	6.1	6.2	6.8	6.1	5.3
Unit nonlabor payments	0.9	-3.2	2.3	6.6	10.2	5.3	0.6	0.3	1.1	1.6	3.8	6.0
Implicit price deflator	4.1	4.6	4.4	7.2	5.2	5.5	4.5	4.1	4.5	5.1	5.3	5.6
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	2.6	-1.9	5.1	0.8	3.8	1.2	2.9	3.2	2.8	1.6	1.9	2.7
Output	3.2	1.3	9.5	8.8	4.8	4.5	6.4	5.6	5.1	5.7	6.1	6.9
Hours	0.6	3.3	4.2	7.9	0.9	3.2	3.4	2.3	2.2	4.0	4.1	4.0
Compensation per hour	8.5	7.3	11.7	7.7	7.5	7.5	9.0	9.2	9.3	8.8	8.5	8.6
Real compensation per hour	2.2	2.6	3.3	-1.0	2.1	3.1	3.3	4.0	3.2	1.8	1.7	1.8
Unit labor costs	5.7	9.4	6.3	6.8	3.5	6.1	5.9	5.8	6.3	7.1	6.5	5.7
Unit nonlabor payments	6.5	-2.7	-2.3	9.0	14.8	2.0	3.1	3.0	1.3	2.5	4.4	5.7
Implicit price deflator	6.0	5.3	3.5	7.5	7.0	4.8	5.0	4.9	4.6	5.6	5.8	5.7
MANUFACTURING:												
Output per hour of all persons	3.9	-1.6	0.1	3.8	5.2	-0.5	4.1	3.1	2.3	1.5	1.8	2.1
Output	3.9	0.5	5.8	12.2	5.6	3.0	8.9	6.1	4.4	5.5	5.9	6.6
Hours	-0.0	2.1	5.7	8.1	0.4	3.5	4.6	2.9	2.0	3.9	4.0	4.4
Compensation per hour	6.2	6.9	12.8	8.1	6.9	8.0	8.8	9.0	9.0	8.4	8.6	8.9
Real compensation per hour	0.1	2.2	4.3	-0.7	1.5	3.6	3.1	3.8	3.0	1.5	1.8	2.2
Unit labor costs	2.2	8.7	12.7	4.1	1.6	8.6	4.5	5.6	6.5	6.8	6.7	6.6
DURABLE GOODS												
Output per hour of all persons	4.0	-3.6	-1.5	6.1	3.5	-1.9	4.4	3.4	1.9	1.2	1.1	1.5
Output	6.7	-2.0	4.8	15.4	7.2	3.0	10.6	7.8	5.2	6.0	6.2	7.5
Hours	2.6	1.6	6.5	8.7	3.5	5.0	6.0	4.3	3.3	4.8	5.0	5.9
Compensation per hour	4.9	4.8	13.2	9.6	5.7	8.3	8.7	8.2	8.3	8.1	8.3	9.2
Real compensation per hour	-1.2	0.2	4.7	0.7	0.5	3.9	3.1	3.1	2.3	1.1	1.5	2.4
Unit labor costs	0.8	8.7	15.0	3.3	2.1	10.4	4.2	4.7	6.2	6.8	7.2	7.6
NONDURABLE GOODS												
Output per hour of all persons	3.7	1.3	2.5	0.5	7.7	1.6	3.7	2.8	2.9	2.0	3.0	3.0
Output	-0.1	4.3	7.2	7.7	3.3	3.0	6.5	3.6	3.2	4.7	5.6	5.3
Hours	-3.7	2.9	4.6	7.2	-4.1	1.4	2.7	0.8	0.3	2.7	2.5	2.2
Compensation per hour	7.8	10.7	11.8	5.3	7.9	7.0	8.5	9.7	10.0	8.8	8.9	8.0
Real compensation per hour	1.5	5.8	3.4	-3.2	2.5	2.6	2.9	4.6	3.9	1.8	2.1	1.3
Unit labor costs	3.9	9.2	9.0	4.7	0.2	5.4	4.6	6.8	6.8	6.7	5.7	4.8
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	2.0	-2.9	6.0	1.9	4.4	N.A.	2.3	2.1	2.3	1.7	2.3	N.A.
Output	2.9	-0.1	9.4	10.1	5.0	N.A.	6.3	5.3	4.7	5.5	6.1	N.A.
Hours	1.0	2.9	3.3	8.1	0.6	N.A.	4.0	3.1	2.4	3.8	3.7	N.A.
Compensation per hour	7.9	7.7	12.8	7.5	7.2	N.A.	8.9	9.1	9.3	9.0	8.8	N.A.
Real compensation per hour	1.7	2.9	4.3	-1.2	1.9	N.A.	3.3	4.0	3.2	1.9	2.0	N.A.
Total unit costs	5.3	10.3	5.2	3.6	3.7	N.A.	4.9	5.5	6.1	6.1	5.7	N.A.
Unit labor costs	5.9	10.9	6.4	5.5	2.7	N.A.	6.5	6.9	6.9	7.1	6.3	N.A.
Unit nonlabor costs	3.8	8.9	1.7	1.3	6.7	N.A.	0.8	1.9	3.9	3.2	3.9	N.A.
Unit profits	9.6	-31.7	-11.6	53.5	29.1	N.A.	5.8	-0.7	-8.3	0.4	4.6	N.A.
Implicit price deflator	5.7	5.1	3.5	7.6	6.1	N.A.	5.0	4.9	4.6	5.5	5.6	N.A.

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		
	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P
ALABAMA	\$191.00	\$204.93	\$208.49	40.9	40.5	40.8	\$4.67	\$5.06	\$5.11
Birmingham	232.22	238.98	252.76	41.1	39.5	41.1	5.65	6.05	6.15
Mobile	221.05	258.07	263.08	39.9	42.1	42.5	5.54	6.13	6.19
ALASKA	312.70	387.09	(*)	38.7	41.2	(*)	8.08	9.39	(*)
ARIZONA	222.22	231.66	238.68	40.7	40.5	40.8	5.46	5.72	5.85
Phoenix	222.63	231.18	233.54	41.0	40.7	40.9	5.43	5.68	5.71
Tucson	220.15	222.48	233.34	40.1	39.1	40.3	5.49	5.69	5.79
ARKANSAS	166.43	177.24	181.25	40.2	40.1	40.1	4.14	4.42	4.52
Fayetteville-Springdale	153.44	164.84	166.06	40.7	40.6	40.8	3.77	4.06	4.07
Fort Smith	171.75	181.10	187.13	40.7	39.2	39.9	4.22	4.62	4.69
Little Rock-North Little Rock	192.88	203.41	211.45	40.1	40.2	40.9	4.81	5.06	5.17
Pine Bluff	206.24	218.36	221.54	42.7	41.2	41.8	4.83	5.30	5.30
CALIFORNIA	233.92	247.65	251.93	40.4	40.4	40.7	5.79	6.13	6.19
Anaheim-Santa Ana-Garden Grove	218.41	230.57	234.02	40.9	41.1	41.2	5.34	5.61	5.68
Bakersfield	242.20	251.10	251.43	40.1	40.5	40.1	6.04	6.20	6.27
Fresno	204.52	225.89	223.86	38.3	40.7	39.0	5.34	5.55	5.74
Los Angeles-Long Beach	221.27	232.23	236.98	40.9	40.6	41.0	5.41	5.72	5.78
Modesto	226.80	247.66	250.72	40.5	40.8	40.9	5.60	6.07	6.13
Oxnard-Simi Valley-Ventura	202.18	210.81	212.67	39.8	39.7	39.9	5.08	5.31	5.33
Riverside-San Bernardino-Ontario	234.24	246.76	251.65	39.5	39.8	40.2	5.93	6.20	6.26
Sacramento	251.91	265.28	267.42	39.3	39.3	39.5	6.41	6.75	6.77
Salinas-Seaside-Monterey	222.72	232.79	242.31	38.4	38.1	39.4	5.80	6.11	6.15
San Diego	229.50	237.37	241.59	39.5	39.3	39.8	5.81	6.04	6.07
San Francisco-Oakland	281.30	301.90	306.59	39.9	40.2	40.5	7.05	7.51	7.57
San Jose	257.00	266.18	269.43	40.6	40.7	40.7	6.33	6.54	6.62
Santa Barbara-Santa Maria-Lompoc	210.54	222.77	220.80	39.8	40.8	40.0	5.29	5.46	5.52
Santa Rosa	215.63	219.70	220.22	37.5	37.3	37.2	5.75	5.89	5.92
Stockton	257.00	271.86	283.68	39.6	39.4	40.7	6.49	6.90	6.97
Vallejo-Fairfield-Napa	228.53	244.78	245.90	36.8	37.2	37.6	6.21	6.58	6.54
COLORADO	218.90	231.08	233.25	39.8	39.3	39.4	5.50	5.88	5.92
Denver-Boulder	224.16	235.62	235.82	40.1	39.6	39.5	5.59	5.95	5.97
CONNECTICUT	223.39	238.96	242.23	41.6	42.0	42.2	5.37	5.69	5.74
Bridgeport	231.86	245.38	249.41	42.7	43.2	43.3	5.43	5.69	5.76
Hartford	246.71	261.32	270.62	42.1	42.7	43.3	5.36	6.12	6.25
New Britain	227.94	246.87	253.97	41.9	42.2	42.9	5.44	5.85	5.92
New Haven-West Haven	222.03	235.34	237.72	41.5	41.0	41.2	5.35	5.74	5.77
Stamford	224.40	245.92	249.37	42.5	42.4	42.7	5.28	5.80	5.84
Waterbury	191.48	203.04	206.24	41.9	42.3	42.7	4.57	4.80	4.83
DELAWARE	225.72	256.54	251.22	39.6	40.4	39.5	5.70	6.35	6.36
Wilmington	256.24	288.46	278.16	40.1	40.8	39.4	6.39	7.07	7.06
DISTRICT OF COLUMBIA:									
Washington SMSA	211.91	213.17	214.66	38.6	38.9	39.1	5.49	5.48	5.49
FLORIDA	185.77	192.44	198.10	41.1	40.6	41.1	4.52	4.74	4.82
Fort Lauderdale-Hollywood	185.62	187.80	192.51	41.9	40.3	40.7	4.43	4.66	4.73
Jacksonville	227.68	219.51	233.13	41.7	40.5	40.9	5.46	5.42	5.70
Miami	161.99	165.09	168.17	40.7	39.4	39.2	3.98	4.19	4.29
Orlando	199.45	203.12	206.34	42.8	41.2	41.6	4.66	4.93	4.96
Pensacola	231.66	251.60	255.42	43.3	42.5	43.0	5.35	5.92	5.94
Tampa-St. Petersburg	195.35	191.09	200.76	41.3	40.4	42.0	4.73	4.73	4.78
West Palm Beach-Boca Raton	237.70	244.40	250.42	45.8	43.8	44.4	5.19	5.58	5.64
GEORGIA	175.41	186.10	193.70	40.7	40.9	41.3	4.31	4.55	4.69
Atlanta	217.95	221.68	239.44	39.7	40.6	41.0	5.49	5.46	5.84
Savannah	239.76	249.40	262.84	44.4	43.0	44.7	5.40	5.80	5.88
HAWAII	215.99	199.86	229.31	39.2	34.4	39.4	5.51	5.81	5.82
Honolulu	211.69	223.23	227.74	38.7	37.9	38.6	5.47	5.89	5.90
IDAHO	210.10	231.55	255.37	38.2	38.4	40.6	5.50	6.03	6.29

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		
	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P
ILLINOIS	(*)	\$264.00	\$270.45	(*)	40.8	41.3	(*)	\$6.46	\$6.56
Bloomington—Normal	(*)	207.39	198.06	(*)	38.3	36.9	(*)	5.42	5.36
Champaign—Urbana—Rantoul	(*)	265.02	252.65	(*)	41.6	39.3	(*)	6.37	6.43
Chicago SMSA	(*)	262.43	267.85	(*)	41.5	41.9	(*)	6.32	6.39
Davenport—Rock Island—Moline	(*)	287.90	278.61	(*)	41.4	40.4	(*)	6.95	6.89
Decatur	(*)	310.20	311.23	(*)	43.9	43.9	(*)	7.07	7.09
Peoria	(*)	276.80	280.89	(*)	35.5	35.5	(*)	7.80	7.91
Rockford	(*)	272.56	293.16	(*)	43.8	44.6	(*)	6.22	6.57
Springfield	(*)	303.93	315.76	(*)	42.9	44.1	(*)	7.09	7.16
INDIANA	\$ 256.05	280.28	286.75	41.1	41.4	41.8	\$ 6.23	6.77	6.86
Gary—Hammond—East Chicago	308.89	357.06	(*)	39.5	40.9	(*)	7.82	8.73	(*)
Indianapolis	267.55	294.80	(*)	42.2	43.1	(*)	6.34	6.84	(*)
IOWA	256.66	269.61	(*)	41.0	40.3	(*)	6.26	6.69	(*)
Cedar Rapids	250.92	264.40	267.65	41.0	40.0	40.8	6.12	6.61	6.56
Des Moines	257.28	267.00	285.76	39.1	37.5	39.8	6.58	7.12	7.18
Dubuque	308.33	329.22	338.77	40.2	40.1	39.3	7.67	8.21	8.62
Sioux City	227.53	183.22	209.24	40.2	32.2	34.7	5.66	5.69	6.03
Waterloo—Cedar Falls	349.27	393.20	325.62	44.1	45.3	40.4	7.92	8.68	8.06
KANSAS	213.80	226.32	232.40	41.9	41.0	41.5	5.10	5.52	5.60
Topeka	235.77	247.25	245.41	44.1	40.6	40.1	5.35	6.09	6.12
Wichita	230.78	233.54	247.80	41.8	40.9	42.0	5.52	5.71	5.90
KENTUCKY	214.94	232.80	(*)	40.1	40.0	(*)	5.36	5.82	(*)
Louisville	256.46	270.80	(*)	41.1	40.6	(*)	6.24	6.67	(*)
LOUISIANA	230.88	250.91	256.54	41.6	42.6	42.9	5.55	5.89	5.98
Baton Rouge	278.04	309.44	310.74	42.0	43.4	43.4	6.62	7.13	7.16
New Orleans	228.00	235.53	241.80	40.0	40.4	40.3	5.70	5.83	6.00
Shreveport	201.31	229.32	219.11	41.0	42.0	42.3	4.91	5.46	5.18
MAINE	174.84	187.31	191.02	40.1	39.6	40.3	4.36	4.73	4.74
Lewiston—Auburn	137.99	146.12	149.27	37.6	36.9	37.6	3.67	3.96	3.97
Portland	177.75	189.77	192.48	39.5	39.7	40.1	4.50	4.78	4.80
MARYLAND	232.36	251.03	252.05	40.2	40.1	40.2	5.78	6.26	6.27
Baltimore	247.25	265.93	265.93	40.8	40.6	40.6	6.06	6.55	6.55
MASSACHUSETTS	202.31	211.60	(*)	40.3	40.0	(*)	5.02	5.29	(*)
Boston	223.97	232.98	(*)	40.5	40.1	(*)	5.53	5.81	(*)
Brockton	156.11	163.88	(*)	37.8	37.5	(*)	4.13	4.37	(*)
Fall River	137.55	143.72	(*)	35.0	34.8	(*)	3.93	4.13	(*)
Lawrence—Haverhill	197.24	204.62	(*)	40.5	39.2	(*)	4.87	5.22	(*)
Lowell	174.39	182.35	(*)	39.1	39.3	(*)	4.46	4.64	(*)
New Bedford	166.32	167.87	(*)	38.5	36.1	(*)	4.32	4.65	(*)
Springfield—Chicopee—Holyoke	214.04	221.73	(*)	42.3	41.6	(*)	5.06	5.33	(*)
Worcester	203.11	223.44	(*)	40.3	40.7	(*)	5.04	5.49	(*)
MICHIGAN	323.83	338.69	(*)	44.1	43.4	(*)	7.34	7.80	(*)
Ann Arbor	351.97	375.89	(*)	45.2	44.5	(*)	7.79	8.45	(*)
Battle Creek	297.63	318.36	(*)	42.8	42.0	(*)	6.95	7.58	(*)
Bay City	317.47	366.85	(*)	52.4	48.9	(*)	6.82	7.50	(*)
Detroit	348.06	364.02	(*)	44.6	43.6	(*)	7.80	8.35	(*)
Flint	379.49	411.72	(*)	47.2	47.0	(*)	8.04	8.76	(*)
Grand Rapids	246.94	274.20	(*)	41.6	42.4	(*)	5.94	6.47	(*)
Jackson	266.97	282.40	(*)	42.6	42.2	(*)	6.27	6.69	(*)
Kalamazoo—Portage	282.32	294.03	(*)	42.9	42.3	(*)	6.58	6.95	(*)
Lansing—East Lansing	356.48	347.61	(*)	46.2	43.3	(*)	7.72	8.03	(*)
Muskegon—Norton Shores—Muskegon Heights	259.71	285.06	(*)	41.7	42.4	(*)	6.23	6.72	(*)
Saginaw	379.31	419.80	(*)	45.7	46.9	(*)	8.30	8.95	(*)
MINNESOTA	234.09	245.52	249.60	40.5	39.6	40.0	5.78	6.20	6.24
Duluth—Superior	209.75	222.15	223.88	39.8	38.5	38.8	5.27	5.77	5.77
Minneapolis—St. Paul	252.97	264.77	268.87	41.2	40.3	40.8	6.14	6.57	6.59
MISSISSIPPI	162.00	172.10	175.42	40.5	40.4	40.7	4.00	4.26	4.31
Jackson	174.29	196.88	197.24	42.1	41.8	41.7	4.14	4.71	4.73

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		
	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P
MISSOURI	\$216.40	\$244.55	\$247.42	40.0	41.1	41.1	\$5.41	\$5.95	\$6.02
Kansas City	253.54	279.64	276.89	41.7	41.8	41.7	6.08	6.69	6.64
St. Joseph	202.78	223.85	224.92	40.8	40.7	40.6	4.97	5.50	5.54
St. Louis	250.45	282.83	293.83	40.2	41.9	42.4	6.23	6.75	6.93
Springfield	177.38	196.95	198.18	38.9	39.0	39.4	4.56	5.05	5.03
MONTANA	252.62	298.49	(*)	42.6	42.1	(*)	5.93	7.09	(*)
NEBRASKA	216.56	220.64	231.01	41.7	39.4	41.4	5.19	5.60	5.58
Lincoln	202.94	211.30	225.72	38.4	37.2	39.6	5.29	5.68	5.70
Omaha	244.35	237.01	248.81	43.4	39.9	41.4	5.63	5.94	6.01
NEVADA	229.20	249.55	254.82	40.0	39.8	41.3	5.73	6.27	6.17
Las Vegas	292.75	322.82	(*)	42.8	41.6	(*)	6.84	7.76	(*)
NEW HAMPSHIRE	177.60	190.28	191.50	40.0	40.4	40.4	4.44	4.71	4.74
Manchester	154.01	167.45	168.20	38.6	39.4	39.3	3.99	4.25	4.28
Nashua	206.07	212.08	218.29	41.8	41.1	41.5	4.93	5.16	5.26
NEW JERSEY	228.63	247.16	250.85	40.9	41.4	41.6	5.59	5.97	6.03
Atlantic City	184.12	208.43	206.80	38.2	39.4	38.8	4.82	5.29	5.33
Camden ²	213.07	234.99	243.95	39.9	40.1	41.0	5.34	5.86	5.95
Hackensack ³	232.35	229.22	239.51	42.4	41.6	43.0	5.48	5.51	5.57
Jersey City ³	217.84	240.78	245.22	38.9	40.4	40.6	5.60	5.96	6.04
New Brunswick—Perth Amboy—Sayreville ³	256.52	273.92	270.48	42.4	42.6	42.0	6.05	6.43	6.44
Newark ³	237.22	254.71	255.78	41.4	42.1	42.0	5.73	6.05	6.09
Paterson—Clifton—Passaic ³	215.28	233.54	243.44	41.4	40.9	41.9	5.20	5.71	5.81
Trenton	236.81	276.49	266.91	41.4	43.0	42.1	5.72	6.43	6.34
NEW MEXICO	169.78	184.68	186.71	39.3	40.5	40.5	4.32	4.56	4.61
Albuquerque	175.83	186.05	183.41	38.9	40.8	39.7	4.52	4.56	4.62
NEW YORK	220.40	234.37	236.19	40.0	40.2	40.1	5.51	5.83	5.89
Albany—Schenectady—Troy	242.78	255.65	263.55	41.6	41.3	42.1	5.85	6.19	6.26
Binghamton	197.47	207.36	207.08	40.3	40.5	39.9	4.90	5.12	5.19
Buffalo	292.40	317.67	318.52	42.5	42.3	42.3	6.88	7.51	7.53
Elmira	217.08	230.28	236.57	40.5	40.4	41.0	5.36	5.70	5.77
Monroe County	290.25	309.87	315.24	43.0	42.8	42.6	6.75	7.24	7.40
Nassau—Suffolk ⁵	199.69	211.74	210.01	39.7	39.8	39.7	5.03	5.32	5.29
New York—Northeastern New Jersey	211.07	224.64	(*)	39.6	39.9	(*)	5.33	5.63	(*)
New York and Nassau—Suffolk ³	194.82	205.44	205.13	38.2	38.4	38.2	5.10	5.35	5.37
New York SMSA ⁵	194.05	204.22	204.28	37.9	38.1	37.9	5.12	5.36	5.39
New York City ⁶	191.76	199.66	201.00	37.6	37.6	37.5	5.10	5.31	5.36
Poughkeepsie	228.00	251.14	253.58	42.3	43.6	44.1	5.39	5.76	5.75
Rochester	274.13	289.93	295.68	42.7	42.7	42.3	6.42	6.79	6.99
Rockland County ⁶	217.77	237.54	234.97	42.7	42.8	42.8	5.10	5.55	5.49
Syracuse	242.28	262.06	264.99	41.7	41.4	41.6	5.81	6.33	6.37
Utica—Rome	209.71	224.13	232.27	40.8	40.9	41.7	5.14	5.48	5.57
Westchester County ⁶	215.06	248.09	230.68	35.9	42.7	40.4	5.39	5.81	5.71
NORTH CAROLINA	156.82	170.07	171.68	39.7	40.3	40.3	3.95	4.22	4.26
Asheville	153.64	173.46	171.77	39.7	41.3	40.8	3.87	4.20	4.21
Charlotte—Gastonia	161.50	175.09	176.78	41.2	41.1	41.4	3.92	4.26	4.27
Greensboro—Winston-Salem—High Point	173.29	185.44	187.98	40.3	40.4	40.6	4.70	4.59	4.63
Raleigh—Durham	175.38	189.77	189.68	39.5	39.7	39.6	4.44	4.78	4.79
NORTH DAKOTA	198.18	198.01	207.52	39.4	36.6	37.8	5.03	5.41	5.49
Fargo—Moorhead	216.94	212.75	226.70	40.1	35.4	38.1	5.41	6.01	5.95
OHIO	269.86	295.53	296.92	42.1	42.4	42.6	6.41	6.97	6.97
Akron	287.32	292.72	294.68	44.0	42.3	42.4	6.53	6.92	6.95
Canton	251.27	287.12	290.48	39.2	40.1	40.4	6.41	7.16	7.19
Cincinnati	255.49	277.77	277.56	42.3	42.8	42.9	6.04	6.49	6.47
Cleveland	281.22	303.30	305.73	43.0	42.9	43.0	6.54	7.07	7.11
Columbus	239.72	249.48	256.47	40.7	40.5	41.3	5.89	6.16	6.21
Dayton	273.03	312.61	319.07	42.2	43.6	44.5	6.47	7.17	7.17
Toledo	287.97	308.42	318.86	43.5	42.6	43.8	6.62	7.24	7.28
Youngstown—Warren	280.91	335.37	317.13	38.8	41.2	39.2	7.24	8.14	8.09

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		
	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P
OKLAHOMA	\$205.32	\$225.22	\$225.07	40.9	40.8	40.7	\$5.02	\$5.52	\$5.53
Oklahoma City	210.43	220.73	222.61	41.1	40.8	41.3	5.12	5.41	5.39
Tulsa	221.27	240.35	237.33	40.6	40.6	40.5	5.45	5.92	5.86
OREGON	248.29	264.41	266.42	39.1	38.6	38.5	6.35	6.85	6.92
Eugene—Springfield	272.83	293.66	(*)	41.4	39.9	(*)	6.59	7.36	(*)
Jackson County	236.37	266.19	269.43	37.4	38.3	38.6	6.32	6.95	6.98
Portland	248.98	255.42	(*)	39.9	38.7	(*)	6.24	6.60	(*)
PENNSYLVANIA	220.25	241.40	243.81	39.4	40.1	40.1	5.59	6.02	6.08
Allentown—Bethlehem—Easton	218.50	236.84	238.40	38.4	38.7	39.8	5.69	6.12	5.99
Altoona	180.27	186.66	182.38	37.4	36.6	36.0	4.82	5.10	5.08
Delaware Valley ⁷	235.76	249.20	251.43	40.3	40.0	40.1	5.85	6.23	6.27
Erie	240.45	257.46	254.81	41.6	42.0	41.5	5.78	6.13	6.14
Harrisburg	191.35	211.60	213.05	38.5	39.7	39.6	4.97	5.33	5.38
Johnstown	236.50	265.93	265.32	37.9	40.6	40.2	6.24	6.55	6.60
Lancaster	196.52	214.80	216.40	39.7	40.3	40.0	4.95	5.33	5.41
Northeast Pennsylvania	162.63	172.56	174.85	35.9	36.1	36.2	4.53	4.78	4.83
Philadelphia SMSA ⁸	232.47	(*)	(*)	40.5	(*)	(*)	5.74	(*)	(*)
Pittsburgh	267.20	308.48	314.61	40.0	41.8	42.4	6.68	7.38	7.42
Reading	203.49	221.09	219.61	39.9	39.2	38.8	5.10	5.64	5.66
Scranton ⁸	167.61	178.93	180.79	37.0	37.2	37.2	4.53	4.81	4.86
Wilkes-Barre—Hazleton ⁹	158.20	166.25	169.21	35.0	35.0	35.4	4.52	4.75	4.78
Williamsport	192.89	210.65	216.61	38.5	39.3	39.6	5.01	5.36	5.47
York	201.06	225.84	230.66	41.2	41.9	42.4	4.88	5.39	5.44
RHODE ISLAND	171.17	176.79	177.24	39.9	39.2	39.3	4.29	4.51	4.51
Providence—Warwick—Pawtucket	172.89	177.30	179.84	40.3	39.4	39.7	4.29	4.50	4.53
SOUTH CAROLINA	169.33	181.66	185.56	41.4	41.1	41.7	4.09	4.42	4.45
Charleston—North Charleston	201.12	202.95	210.92	42.7	41.0	42.1	4.71	4.95	5.01
Columbia	163.05	180.63	182.16	39.1	40.5	40.3	4.17	4.46	4.52
Greenville—Spartanburg	168.51	180.81	185.95	41.1	41.0	41.6	4.10	4.41	4.47
SOUTH DAKOTA	186.59	179.69	198.12	39.7	36.3	39.0	4.70	4.95	5.08
Sioux Falls	237.59	232.37	256.87	42.2	38.6	41.7	5.63	6.02	6.15
TENNESSEE	180.26	196.17	203.35	40.6	40.7	41.5	4.44	4.82	4.90
Chattanooga	188.90	203.09	209.50	40.8	40.7	41.9	4.63	4.99	5.00
Knoxville	214.13	232.37	237.44	41.1	41.2	42.1	5.21	5.64	5.64
Memphis	223.97	227.84	239.55	42.1	41.5	42.7	5.32	5.49	5.61
Nashville—Davidson	194.47	211.56	223.24	40.6	41.0	42.2	4.79	5.16	5.29
TEXAS	215.80	231.01	236.32	41.5	41.4	41.9	5.20	5.58	5.64
Amarillo	198.94	236.38	229.63	40.6	40.2	41.3	4.90	5.88	5.56
Austin	180.07	184.73	189.98	41.3	41.7	42.5	4.36	4.43	4.47
Beaumont—Port Arthur—Orange	286.84	319.97	321.85	40.4	41.5	41.0	7.10	7.71	7.85
Corpus Christi	246.50	266.74	269.44	42.5	43.8	42.1	5.80	6.09	6.40
Dallas—Fort Worth	201.83	215.48	222.49	41.7	41.2	41.9	4.84	5.23	5.31
El Paso	145.16	163.14	160.70	36.2	39.5	39.1	4.01	4.13	4.11
Galveston—Texas City	324.44	349.78	350.67	42.3	42.5	42.3	7.67	8.23	8.29
Houston	269.27	290.15	294.98	43.5	43.5	43.7	6.19	6.67	6.75
Lubbock	159.27	165.63	169.74	42.7	41.1	41.4	3.73	4.03	4.10
San Antonio	164.67	171.39	179.35	41.9	41.1	42.3	3.93	4.17	4.24
Waco	191.13	185.32	184.12	42.1	40.2	40.2	4.54	4.61	4.58
Wichita Falls	181.50	204.67	204.67	38.7	42.2	41.6	4.69	4.85	4.92
UTAH	196.78	212.50	214.06	39.2	40.1	40.2	5.02	5.30	5.32
Salt Lake City—Ogden	192.23	199.24	201.20	39.8	40.0	39.8	4.83	4.98	5.06
VERMONT	192.70	193.18	202.29	41.8	40.5	41.2	4.61	4.77	4.91
Burlington	236.30	217.76	232.90	44.5	41.4	42.5	5.31	5.26	5.48
Springfield	203.62	219.60	237.97	40.4	41.2	42.8	5.04	5.33	5.56
VIRGINIA ¹⁰	181.20	196.34	196.02	40.0	40.4	40.5	4.53	4.86	4.84
Bristol ¹⁰	157.38	174.98	175.52	38.2	39.5	39.8	4.12	4.43	4.41
Lynchburg	179.95	202.37	198.19	39.9	40.8	40.2	4.51	4.96	4.93
Norfolk—Virginia Beach—Portsmouth ¹⁰	214.38	212.26	215.19	42.1	40.2	40.6	5.08	5.28	5.30
Northern Virginia ^{10, 11}	203.81	213.46	219.51	40.6	39.9	40.5	5.02	5.35	5.42
Petersburg—Colonial Heights—Hopewell ¹⁰	204.06	237.58	237.01	39.7	40.2	41.8	5.14	5.91	5.67
Richmond ¹⁰	218.15	235.89	235.01	40.7	40.6	40.8	5.36	5.81	5.76

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		
	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P	DEC. 1976	NOV. 1977	DEC. 1977P
VIRGINIA—Continued									
Roanoke ¹⁰	\$ 161.19	\$172.08	\$176.66	39.8	40.3	40.8	\$4.05	\$4.27	\$4.33
WASHINGTON	261.76	268.93	(*)	39.6	38.2	(*)	6.61	7.04	(*)
Seattle—Everett	266.51	269.43	(*)	39.6	38.6	(*)	6.73	6.98	(*)
Spokane	224.65	241.35	(*)	38.8	39.5	(*)	5.79	6.11	(*)
Tacoma	256.35	279.41	(*)	38.9	38.7	(*)	6.59	7.22	(*)
WEST VIRGINIA	224.19	248.69	250.34	39.4	39.6	39.8	5.69	6.28	6.29
Charleston	264.13	290.60	291.48	41.4	42.3	42.0	6.38	6.87	6.94
Huntington—Ashland	243.27	269.30	270.09	39.3	39.2	39.2	6.19	6.87	6.89
Parkersburg—Marietta	244.01	272.39	271.58	40.6	40.9	40.9	6.01	6.66	6.64
Wheeling	217.49	271.51	269.43	39.4	41.2	40.7	5.52	6.59	6.62
WISCONSIN	245.90	264.11	265.47	41.2	41.3	41.1	5.96	6.40	6.47
Appleton—Oshkosh	233.87	261.90	262.54	41.6	42.9	42.8	5.62	6.10	6.14
Green Bay	247.20	264.07	270.64	42.3	42.5	42.5	5.84	6.21	6.37
Kenosha	269.40	288.63	297.03	39.9	38.9	39.3	6.75	7.43	7.55
La Crosse	208.64	224.39	225.14	40.8	41.0	40.7	5.11	5.47	5.53
Madison	258.30	273.59	275.99	40.1	39.7	39.7	6.44	6.90	6.95
Milwaukee	267.00	289.27	292.85	41.1	41.4	41.5	6.50	6.99	7.05
Racine	256.28	285.39	292.44	40.4	41.6	41.9	6.35	6.87	6.99
WYOMING	222.72	227.92	234.82	39.7	39.5	39.4	5.61	5.77	5.96
Casper	270.27	274.03	278.52	41.2	39.6	38.9	6.56	6.92	7.16
Cheyenne	256.44	(*)	(*)	40.9	(*)	(*)	6.27	(*)	(*)

¹ Based on the 1967 Standard Industrial Classification Manual.
² Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.
³ Subarea of New York—Northeastern New Jersey.
⁴ Subarea of Rochester Standard Metropolitan Statistical Area.
⁵ Area included in New York and Nassau—Suffolk combined SMSA's.
⁶ Subarea of New York Standard Metropolitan Statistical Area.
⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.
⁸ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

⁹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.
¹⁰ Revised to 1977 benchmark; not strictly comparable with previously published data.
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	P4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.2	5.2	4.6	3.8	3.0	P2.3
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	P2.8	2.2	2.1	2.6	2.7	3.4	3.7	3.0	3.9	3.5	2.9	2.2	P1.5
1978													
Recalls													
1976	1.0	1.4	1.0	1.2	1.0	1.0	.8	1.0	1.1	.8	.7	.7	.7
1977	P.9	1.2	1.3	1.1	.9	.8	.8	1.0	1.0	.8	.6	.6	P.6
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	P3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.3	5.1	4.8	3.8	3.3	P3.3
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	P1.9	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9	1.5	P1.2
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	P1.2	1.7	1.4	1.0	.9	.8	.8	1.5	1.0	1.1	1.1	1.1	P1.4
1978													

p=preliminary.

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	
		Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P
-	MANUFACTURING	3.0	2.3	2.2	1.5	0.6	0.6	3.3	3.3	1.5	1.2	1.1	1.4
19,24,25,32-39	DURABLE GOODS	2.8	2.2	2.0	1.4	.5	.5	2.9	2.8	1.2	.9	1.0	1.1
20-23,26-31	NONDURABLE GOODS	3.4	2.6	2.5	1.7	.7	.7	3.9	4.0	1.8	1.5	1.4	1.8
	DURABLE GOODS												
19	ORDNANCE AND ACCESSORIES	1.6	1.4	.9	.9	.2	.2	1.8	2.3	.4	.4	.9	1.4
192	Ammunition, except for small arms	1.4	-	.6	-	.2	-	1.5	-	.4	-	.8	-
24	LUMBER AND WOOD PRODUCTS	3.7	3.0	3.1	2.4	.5	.4	4.6	4.8	2.4	2.1	1.3	1.9
242	Sawmills and planing mills	3.3	-	2.7	-	.5	-	3.9	-	2.2	-	.9	-
2421	Sawmills and planing mills, general	3.0	-	2.4	-	.4	-	3.7	-	2.0	-	1.0	-
243	Millwork, plywood and related products	3.9	-	3.3	-	.3	-	4.6	-	2.6	-	1.1	-
2431	Millwork	3.9	-	3.5	-	.2	-	4.6	-	2.4	-	1.1	-
2432	Veneer and plywood	3.1	-	2.4	-	.2	-	2.8	-	1.6	-	.4	-
244	Wooden containers	6.3	-	5.5	-	.7	-	6.9	-	4.3	-	1.7	-
2441,2	Wooden boxes, shooks, and crates	4.9	-	4.3	-	.6	-	6.7	-	3.8	-	2.0	-
249	Miscellaneous wood products	4.5	-	3.8	-	.5	-	4.4	-	2.9	-	.6	-
25	FURNITURE AND FIXTURES	4.7	3.1	4.2	2.6	.3	.4	4.3	3.7	2.7	2.1	.5	.8
251	Household furniture	5.1	-	4.6	-	.3	-	4.4	-	3.0	-	.4	-
2511	Wood household furniture	5.3	-	4.8	-	.2	-	4.2	-	3.0	-	.2	-
2512	Upholstered household furniture	4.7	-	4.2	-	.3	-	4.2	-	3.0	-	.3	-
2515	Mattresses and bedsprings	4.5	-	3.8	-	.4	-	5.1	-	2.9	-	.7	-
252	Office furniture	3.2	-	2.9	-	.3	-	2.5	-	1.6	-	.2	-
32	STONE, CLAY, AND GLASS PRODUCTS	2.7	2.1	2.0	1.6	.6	.4	3.2	4.0	1.3	1.1	1.1	2.1
321	Flat glass	.8	-	.3	-	.3	-	.9	-	.2	-	.2	-
322	Glass and glassware, pressed or blown	2.3	-	1.1	-	1.0	-	2.4	-	.8	-	.9	-
3221	Glass containers	2.1	-	1.2	-	.7	-	2.3	-	.8	-	.8	-
3229	Pressed and blown glass, nec	2.4	-	1.0	-	1.3	-	2.5	-	.7	-	.9	-
324	Cement, hydraulic	1.3	-	.6	-	.6	-	1.2	-	.2	-	.6	-
325	Structural clay products	4.3	-	3.6	-	.6	-	4.7	-	2.6	-	.9	-
3251	Brick and structural clay tile	5.5	-	5.0	-	.2	-	6.0	-	3.9	-	.8	-
328	Pottery and related products	2.7	-	2.3	-	.3	-	2.5	-	1.3	-	.3	-
3291	Abrasive products	2.0	-	1.7	-	.1	-	1.4	-	.6	-	.3	-
33	PRIMARY METAL INDUSTRIES	2.2	1.9	1.2	.8	.8	.9	2.7	2.3	.6	.5	1.4	1.2
331	Blast furnace and basic steel products	2.2	-	.4	-	1.5	-	3.1	-	.2	-	2.0	-
3312	Blast furnaces and steel mills	2.2	-	.3	-	1.5	-	3.2	-	.2	-	2.1	-
332	Iron and steel foundries	2.8	-	2.2	-	.4	-	3.1	-	1.1	-	1.1	-
3321	Gray iron foundries	2.6	-	1.9	-	.4	-	3.1	-	1.1	-	1.2	-
3322	Malleable iron foundries	2.6	-	2.0	-	.4	-	2.8	-	1.3	-	.4	-
3323	Steel foundries	3.5	-	2.9	-	.3	-	3.2	-	1.1	-	1.1	-
333,4	Nonferrous metals	1.5	-	1.1	-	.3	-	1.8	-	.5	-	.8	-
335	Nonferrous rolling and drawing	1.6	-	1.1	-	.3	-	1.6	-	.5	-	.7	-
3351	Copper rolling and drawing	1.5	-	1.2	-	.2	-	3.3	-	.8	-	2.0	-
3352	Aluminum rolling and drawing	1.7	-	1.1	-	.5	-	1.2	-	.4	-	.5	-
3357	Nonferrous wire drawing, and insulating	1.7	-	1.1	-	.3	-	1.3	-	.4	-	.4	-
338	Nonferrous foundries	3.6	-	3.1	-	.4	-	3.5	-	1.7	-	.9	-
3361	Aluminum castings	3.8	-	3.3	-	.4	-	3.5	-	1.9	-	.7	-
3362,9	Other nonferrous castings	3.5	-	2.9	-	.3	-	3.6	-	1.6	-	1.2	-
339	Miscellaneous primary metal products	1.8	-	1.4	-	.3	-	1.6	-	.6	-	.4	-
3391	Iron and steel forgings	1.7	-	1.2	-	.3	-	1.7	-	.5	-	.5	-
34	FABRICATED METAL PRODUCTS	3.1	2.2	2.4	1.5	.5	.5	3.4	2.9	1.5	1.0	1.1	1.2
341	Metal cans	3.0	-	.5	-	1.8	-	9.6	-	.3	-	8.4	-
342	Cutlery, hand tools, and hardware	2.5	-	2.2	-	.1	-	2.4	-	1.2	-	.5	-
3421,3,5	Cutlery and hand tools, incl. saws	2.5	-	2.2	-	.1	-	2.3	-	1.2	-	.5	-
3429	Hardware, nec	2.5	-	2.1	-	.1	-	2.5	-	1.2	-	.6	-
343	Plumbing and heating, except electric	3.2	-	2.6	-	.5	-	2.9	-	1.2	-	.8	-
3431,2	Sanitary ware and plumbers' brass goods	2.7	-	1.9	-	.7	-	2.5	-	.9	-	1.0	-
3433	Heating equipment, except electric	3.6	-	3.1	-	.4	-	3.2	-	1.5	-	.7	-
344	Fabricated structural metal products	3.6	-	3.0	-	.5	-	3.7	-	1.8	-	1.0	-
3441	Fabricated structural steel	3.5	-	2.8	-	.6	-	3.9	-	1.5	-	1.5	-
3443	Fabricated plate work (boiler shops)	2.3	-	1.9	-	.3	-	2.5	-	.9	-	.8	-
3446,9	Architectural and misc. metal work	3.3	-	2.8	-	.4	-	3.9	-	1.7	-	1.4	-
345	Screw machine products, bolts, etc.	2.6	-	2.3	-	.3	-	2.3	-	1.3	-	.3	-
3452	Bolts, nuts, rivets, and washers	2.0	-	1.6	-	.2	-	1.8	-	1.1	-	.1	-

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	
		Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P
	DURABLE GOODS — Continued												
	FABRICATED METAL PRODUCTS — Continued												
346	Metal stampings	2.2	-	1.5	-	0.4	-	2.6	-	0.9	-	1.0	-
348	Miscellaneous fabricated wire products	3.4	-	2.9	-	.4	-	3.6	-	2.2	-	.7	-
349	Miscellaneous fabricated metal products	2.5	-	2.0	-	.3	-	2.3	-	1.2	-	.5	-
3494,8	Valves, pipe, and pipe fittings	2.2	-	1.8	-	.3	-	2.1	-	1.1	-	.4	-
35	MACHINERY, EXCEPT ELECTRICAL	2.5	2.1	1.9	1.4	.3	0.5	2.2	2.0	.9	0.7	.7	0.6
351	Engines and turbines	1.8	-	.9	-	.2	-	1.7	-	.3	-	.6	-
3511	Steam engines and turbines	1.2	-	.5	-	.0	-	1.7	-	.3	-	.3	-
3519	Internal combustion engines, nec	2.2	-	1.1	-	.4	-	1.7	-	.3	-	.7	-
352	Farm machinery	2.8	-	1.3	-	1.0	-	3.6	-	.8	-	2.1	-
353	Construction and related machinery	2.3	-	1.9	-	.2	-	2.5	-	.8	-	1.2	-
3531,2	Construction and mining machinery	1.8	-	1.4	-	.2	-	2.7	-	.5	-	1.8	-
3533	Oil field machinery	3.3	-	2.9	-	.3	-	2.8	-	1.5	-	.1	-
3535,6	Conveyors, hoists, cranes, monorails	1.8	-	1.6	-	.2	-	2.2	-	.8	-	.8	-
354	Metal working machinery	2.6	-	2.1	-	.3	-	2.1	-	1.0	-	.4	-
3541	Machine tools, metal cutting types	1.6	-	1.4	-	.1	-	1.1	-	.5	-	.1	-
3545	Machine tool accessories	2.1	-	1.8	-	.2	-	2.4	-	1.0	-	.2	-
3542,8	Miscellaneous metal working machinery	2.4	-	1.7	-	.5	-	1.6	-	.8	-	.4	-
355	Special industry machinery	1.8	-	1.5	-	.2	-	1.6	-	.8	-	.4	-
3551	Food products machinery	1.6	-	1.4	-	.1	-	1.7	-	.9	-	.5	-
3552	Textile machinery	2.3	-	1.5	-	.6	-	1.8	-	.8	-	.5	-
356	General industrial machinery	2.0	-	1.5	-	.2	-	1.7	-	.8	-	.3	-
3561	Pumps and compressors	1.7	-	1.4	-	.1	-	1.6	-	.7	-	.4	-
3562	Ball and roller bearings	1.8	-	1.0	-	.2	-	1.5	-	.4	-	.3	-
3566	Power transmission equipment	2.0	-	1.7	-	.1	-	1.5	-	.8	-	.3	-
357	Office and computing machines	2.3	-	1.8	-	.2	-	1.9	-	.9	-	.3	-
3573	Electronic computing equipment	2.3	-	1.9	-	.1	-	1.6	-	.9	-	.1	-
358	Service industry machines	3.7	-	2.3	-	.9	-	2.4	-	1.1	-	.5	-
3585	Refrigeration machinery	4.3	-	2.4	-	1.2	-	2.3	-	1.1	-	.3	-
36	ELECTRICAL EQUIPMENT AND SUPPLIES	2.5	1.8	1.8	1.2	.3	.2	2.4	2.1	1.1	.8	.6	.6
361	Electric test and distributing equipment	3.0	-	2.3	-	.3	-	2.6	-	1.2	-	.6	-
3611	Electric measuring instruments	3.2	-	2.7	-	.1	-	2.4	-	1.2	-	.6	-
3612	Transformers	3.4	-	2.1	-	.6	-	2.3	-	.9	-	.4	-
3613	Switchgear and switchboard apparatus	2.6	-	2.0	-	.2	-	3.2	-	1.5	-	.7	-
362	Electrical industrial apparatus	2.4	-	1.7	-	.3	-	1.9	-	.9	-	.4	-
3621	Motors and generators	2.5	-	1.7	-	.5	-	1.9	-	1.0	-	.4	-
3622	Industrial controls	2.4	-	1.5	-	.3	-	1.8	-	.7	-	.4	-
363	Household appliances	3.5	-	2.4	-	.4	-	3.4	-	1.4	-	.8	-
3632	Household refrigerators and freezers	3.5	-	1.1	-	.4	-	4.1	-	.8	-	1.1	-
3633	Household laundry equipment . . . . .	.8	-	.4	-	.0	-	1.1	-	.3	-	.2	-
3634	Electric housewares and fans	5.3	-	4.3	-	.7	-	3.9	-	2.4	-	.7	-
364	Electric lighting and wiring equipment	2.4	-	1.7	-	.3	-	2.5	-	1.1	-	.6	-
3641	Electric lamps	1.2	-	.5	-	.2	-	1.4	-	.4	-	.1	-
3642	Lighting fixtures	3.2	-	2.5	-	.3	-	2.9	-	1.5	-	.6	-
3643,4	Wiring devices	2.3	-	1.7	-	.4	-	2.6	-	1.1	-	.8	-
365	Radio and TV receiving equipment	2.6	-	1.5	-	.5	-	3.6	-	1.0	-	1.7	-
366	Communication equipment	1.6	-	1.1	-	.1	-	1.5	-	.6	-	.4	-
3661	Telephone and telegraph apparatus	1.2	-	.9	-	.1	-	1.4	-	.3	-	.5	-
3662	Radio and TV communication equipment	1.8	-	1.2	-	.1	-	1.6	-	.7	-	.4	-
367	Electronic components and accessories	2.9	-	2.2	-	.4	-	2.8	-	1.5	-	.5	-
3671-3	Electron tubes	2.2	-	1.3	-	.4	-	1.8	-	.6	-	.4	-
3674,9	Other electronic components	3.0	-	2.4	-	.4	-	2.9	-	1.6	-	.5	-
369	Miscellaneous electrical equipment and supplies	2.4	-	1.7	-	.3	-	2.3	-	1.0	-	.5	-
3694	Engine electrical equipment	2.6	-	1.8	-	.4	-	2.3	-	1.0	-	.5	-
37	TRANSPORTATION EQUIPMENT	2.7	-	1.7	-	.6	-	2.8	-	1.0	-	1.0	-
371	Motor vehicles and equipment	1.9	-	1.0	-	.4	-	1.8	-	.6	-	.5	-
3711	Motor vehicles	1.8	-	.9	-	.2	-	1.5	-	.5	-	.3	-
3712	Passenger car bodies . . . . .	.9	-	.4	-	.1	-	1.3	-	.2	-	.3	-
3713	Truck and bus bodies	2.3	-	1.9	-	.4	-	2.6	-	1.2	-	.9	-
3714	Motor vehicle parts and accessories	1.9	-	.9	-	.6	-	1.9	-	.6	-	.7	-
372	Aircraft and parts	1.8	-	1.3	-	.3	-	1.2	-	.5	-	.2	-
3721	Aircraft	1.7	-	1.2	-	.2	-	1.0	-	.4	-	.2	-
3722	Aircraft engines and engine parts	1.2	-	.8	-	.1	-	.9	-	.3	-	.1	-
3723,9	Other aircraft parts and equipment	2.7	-	2.1	-	.5	-	2.1	-	1.0	-	.5	-
373	Ship and boat building and repairing	6.2	-	3.4	-	2.4	-	5.9	-	2.1	-	2.6	-
3731	Ship building and repairing	6.7	-	3.4	-	2.8	-	6.3	-	2.0	-	2.9	-
374	Railroad equipment	2.1	-	.8	-	1.1	-	3.9	-	.4	-	2.4	-
375,9	Other transportation equipment	5.3	-	4.6	-	.5	-	7.7	-	3.2	-	2.9	-

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	
		Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P
DURABLE GOODS — Continued													
38	INSTRUMENTS AND RELATED PRODUCTS	2.2	1.8	1.8	1.4	0.2	0.2	2.1	1.7	1.1	0.8	0.4	0.3
381	Engineering and scientific instruments	1.8	-	1.6	-	.1	-	1.2	-	.8	-	.1	-
382	Mechanical measuring and control devices	2.4	-	1.8	-	.2	-	2.0	-	.8	-	.4	-
3821	Mechanical measuring devices	2.2	-	1.8	-	.1	-	1.9	-	.9	-	.3	-
3822	Automatic temperature controls	2.7	-	1.8	-	.4	-	2.2	-	.7	-	.5	-
383.5	Optical and ophthalmic goods	2.8	-	2.4	-	.3	-	2.3	-	1.4	-	.5	-
384	Medical instruments and supplies	2.8	-	2.4	-	.3	-	1.9	-	1.2	-	.2	-
386	Photographic equipment and supplies	1.1	-	.9	-	.0	-	2.2	-	1.2	-	.3	-
387	Watches, clocks, and watchcases	3.4	-	3.1	-	.1	-	4.2	-	1.9	-	1.5	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	3.9	2.7	3.1	1.8	.6	.7	6.2	6.2	2.0	1.4	3.1	4.0
391	Jewelry, silverware, and plated ware	3.3	-	2.7	-	.4	-	3.2	-	1.9	-	.6	-
394	Toys and sporting goods	4.1	-	3.0	-	.8	-	12.5	-	2.4	-	7.9	-
3941-3	Games, toys, dolls and play vehicles	3.9	-	2.7	-	.9	-	19.8	-	2.9	-	13.7	-
3949	Sporting and athletic goods, nec	4.4	-	3.2	-	.7	-	4.1	-	1.9	-	1.2	-
395	Pens, pencils, office and art supplies	3.3	-	2.8	-	.3	-	2.3	-	1.4	-	.3	-
396	Costume jewelry and notions	5.9	-	5.3	-	.5	-	5.4	-	2.7	-	1.9	-
393.9	Other manufacturing industries	3.4	-	2.7	-	.5	-	4.0	-	1.7	-	1.5	-
NONDURABLE GOODS													
20	FOOD AND KINDRED PRODUCTS	4.5	3.6	2.9	2.3	1.3	1.0	5.9	6.2	2.4	2.1	2.8	3.5
201	Meat products	5.8	-	4.3	-	1.0	-	6.3	-	3.9	-	1.7	-
2011	Meat packing plants	4.0	-	2.4	-	1.2	-	3.9	-	1.7	-	1.7	-
2015	Poultry dressing plants	8.9	-	7.9	-	.3	-	10.2	-	8.1	-	1.3	-
204	Grain mill products	2.8	-	2.1	-	.5	-	3.6	-	1.5	-	1.4	-
2041	Flour and other grain mill products	2.3	-	1.7	-	.4	-	2.6	-	1.2	-	.8	-
2042	Prepared feeds for animals and fowls	3.4	-	3.0	-	.3	-	4.5	-	2.1	-	1.6	-
205	Bakery products	2.3	-	1.8	-	.4	-	2.9	-	1.5	-	.8	-
2051	Bread, cake, and related products	2.2	-	1.9	-	.2	-	2.4	-	1.7	-	.4	-
2052	Cookies and crackers	2.7	-	1.2	-	1.4	-	5.0	-	1.0	-	3.4	-
207	Confectionery and related products	5.3	-	2.9	-	2.2	-	6.7	-	2.2	-	3.7	-
2071	Confectionery products	5.9	-	3.6	-	2.0	-	8.0	-	2.7	-	4.5	-
208	Beverages	3.6	-	2.1	-	1.1	-	3.6	-	1.6	-	1.4	-
2082	Malt liquors	5.5	-	1.0	-	2.9	-	2.9	-	.2	-	2.0	-
21	TOBACCO MANUFACTURES	4.4	-	1.7	-	2.5	-	3.7	-	.9	-	2.2	-
211	Cigarettes .....	.7	-	.3	-	0	-	.5	-	.1	-	0	-
212	Cigars	2.6	-	2.3	-	.2	-	2.7	-	1.9	-	.3	-
22	TEXTILE MILL PRODUCTS	3.6	2.4	2.8	1.9	.5	.3	3.9	3.4	2.3	1.6	.7	1.0
221	Weaving mills, cotton	2.8	-	2.1	-	.1	-	3.0	-	1.9	-	.3	-
222	Weaving mills, synthetics	3.2	-	2.6	-	.4	-	3.5	-	2.2	-	.4	-
223	Weaving and finishing mills, wool	4.6	-	3.0	-	1.1	-	4.3	-	2.4	-	1.1	-
224	Narrow fabric mills	4.4	-	3.4	-	.6	-	3.1	-	2.0	-	.6	-
225	Knitting mills	4.0	-	3.1	-	.7	-	4.7	-	2.7	-	1.2	-
2251	Women's hosiery, except socks	4.0	-	3.3	-	.5	-	3.8	-	2.5	-	.7	-
2252	Hosiery, nec	4.1	-	3.8	-	.2	-	4.0	-	3.1	-	.4	-
2254	Knit underwear mills	4.1	-	3.6	-	.4	-	3.7	-	2.7	-	.3	-
226	Textile finishing, except wool	3.0	-	2.1	-	.5	-	2.9	-	1.4	-	.8	-
227	Floor covering mills	3.4	-	2.8	-	.4	-	3.2	-	2.0	-	.3	-
228	Yarn and thread mills	4.5	-	3.8	-	.3	-	4.8	-	3.3	-	.4	-
229	Miscellaneous textile goods	3.4	-	2.4	-	.6	-	3.4	-	1.5	-	.5	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	4.4	3.0	3.1	1.7	1.0	1.1	4.9	5.1	2.5	1.8	1.7	2.6
231	Men's and boys' suits and coats	2.7	-	1.9	-	.5	-	3.8	-	1.4	-	1.8	-
232	Men's and boys' furnishings	4.0	-	3.1	-	.6	-	5.2	-	3.1	-	1.4	-
2321	Men's and boys' shirts and nightwear	3.4	-	2.6	-	.6	-	5.6	-	2.7	-	2.2	-
2327	Men's and boys' separate trousers	3.7	-	2.9	-	.6	-	3.7	-	2.9	-	.3	-
2328	Men's and boys' work clothing	4.7	-	3.9	-	.5	-	5.4	-	4.0	-	.7	-
234	Women's and children's undergarments	4.4	-	3.4	-	.8	-	4.7	-	2.9	-	1.1	-
2341	Women's and children's underwear	4.7	-	3.7	-	.9	-	4.8	-	3.1	-	.9	-
2342	Corsets and allied garments	3.6	-	2.5	-	.8	-	4.1	-	2.0	-	1.5	-
26	PAPER AND ALLIED PRODUCTS	2.0	1.9	1.4	1.1	.4	.6	2.3	2.3	.9	.8	.8	.9
261,2,6	Paper and pulp mills	1.1	-	.7	-	.2	-	1.4	-	.3	-	.6	-
263	Paperboard mills	1.5	-	.8	-	.4	-	1.5	-	.6	-	.5	-

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	
		Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P	Nov. 1977	Dec. 1977 ^P
	NONDURABLE GOODS—Continued												
	PAPER AND ALLIED PRODUCTS—Continued												
264	Miscellaneous converted paper products	2.4	-	1.8	-	0.4	-	3.0	-	1.2	-	1.1	-
2643	Bags, except textile bags	3.3	-	2.3	-	.9	-	3.8	-	1.7	-	1.3	-
265	Paperboard containers and boxes	2.5	-	1.8	-	.5	-	2.9	-	1.2	-	1.0	-
2651,2	Folding and setup paperboard boxes	3.1	-	2.4	-	.7	-	3.3	-	1.5	-	1.1	-
2653	Corrugated and solid fiber boxes	1.8	-	1.5	-	.2	-	2.3	-	1.0	-	.7	-
27	PRINTING AND PUBLISHING	2.8	2.5	2.3	1.9	.4	0.5	2.7	3.1	1.6	1.4	.7	1.1
28	CHEMICALS AND ALLIED PRODUCTS	1.3	1.0	.9	.7	.3	.2	1.3	1.4	.5	.4	.5	.5
281	Industrial chemicals . . . . .	.9	-	.7	-	.1	-	.9	-	.3	-	.3	-
282	Plastics materials and synthetics . . . . .	.8	-	.5	-	.2	-	1.0	-	.3	-	.3	-
2821	Plastics materials and resins . . . . .	.9	-	.7	-	.1	-	1.1	-	.4	-	.4	-
2823,4	Synthetic fibers . . . . .	.7	-	.3	-	.3	-	.9	-	.3	-	.3	-
283	Drugs	1.5	-	1.2	-	.3	-	1.0	-	.5	-	.2	-
2834	Pharmaceutical preparations	1.7	-	1.3	-	.3	-	1.1	-	.6	-	.2	-
284	Soap, cleaners, and toilet goods	2.0	-	1.3	-	.6	-	2.4	-	.7	-	1.2	-
2841	Soap and other detergents	1.2	-	.7	-	.4	-	1.7	-	.4	-	.7	-
2844	Toilet preparations	2.8	-	1.4	-	1.1	-	2.9	-	.8	-	1.6	-
285	Paints and allied products	1.6	-	1.1	-	.1	-	1.7	-	.7	-	.6	-
286,9	Other chemical products	1.7	-	1.2	-	.3	-	1.5	-	.7	-	.4	-
29	PETROLEUM AND COAL PRODUCTS	1.4	1.4	1.2	1.0	.1	.4	1.9	2.5	.6	.5	.9	1.4
291	Petroleum refining	1.1	-	1.0	-	0	-	1.0	-	.3	-	.4	-
295,9	Other petroleum and coal products	2.5	-	2.1	-	.2	-	4.8	-	1.5	-	2.3	-
30	RUBBER AND PLASTICS PRODUCTS, NEC	3.8	2.8	3.0	2.0	.5	.6	4.1	3.7	2.0	1.5	1.0	1.3
301	Tires and inner tubes	1.2	-	.5	-	.2	-	1.7	-	.4	-	.6	-
302,3,6	Other rubber products	3.1	-	2.2	-	.6	-	3.4	-	1.5	-	1.0	-
307	Miscellaneous plastics products	5.0	-	4.1	-	.6	-	5.1	-	2.8	-	1.1	-
31	LEATHER AND LEATHER PRODUCTS	5.9	4.4	4.7	3.0	.9	1.0	5.9	6.4	3.5	2.6	1.4	2.5
311	Leather tanning and finishing	4.0	-	3.0	-	.9	-	3.4	-	1.7	-	.9	-
314	Footwear, except rubber	6.3	-	5.0	-	.8	-	5.9	-	3.9	-	1.0	-
	NONMANUFACTURING												
10	METAL MINING	3.0	1.6	1.6	1.2	1.2	.1	2.8	3.0	1.2	.9	.9	1.4
101	Iron ores	1.9	-	1.0	-	.1	-	4.7	-	.6	-	2.4	-
102	Copper ores	3.2	-	.4	-	2.5	-	1.6	-	.6	-	.4	-
11,12	COAL MINING	1.4	.4	1.1	.2	.1	.1	1.2	.9	.6	.2	.1	.3
12	Bituminous coal and lignite mining	1.4	-	1.1	-	.1	-	1.1	-	.6	-	.1	-
481	COMMUNICATION: Telephone communication . . . . .	.6	-	-	-	(¹)	-	.6	-	.2	-	.1	-
482	Telegraph communication ²	(*)	-	-	-	(*)	-	(*)	-	-	-	(*)	-

¹ Less than 0.05.

² Data relate to all employees except messengers.

p = preliminary.

* Not available.

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	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	3.9	4.4
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	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	2.9	3.1
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	3.6	3.9
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	1.9	2.1
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	.8	.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	.9	1.2
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		Recalls		Total		Quits		Layoffs	
	Oct. 1977	Nov. 1977 ^D	Oct. 1977	Nov. 1977 ^D	Oct. 1977	Nov. 1977 ^D	Oct. 1977	Nov. 1977 ^D	Oct. 1977	Nov. 1977 ^D	Oct. 1977	Nov. 1977 ^D
ALABAMA:												
Birmingham	1.9	1.9	1.3	1.4	0.4	0.4	2.6	2.5	1.1	0.7	0.9	1.3
Mobile ¹	6.1	6.5	1.7	1.8	4.3	4.7	8.2	4.2	1.8	2.2	5.7	1.4
ALASKA	8.0	3.6	6.3	2.1	1.0	.8	19.1	17.0	5.6	2.9	12.8	12.5
ARIZONA	4.7	4.0	3.9	3.3	.6	.5	4.3	3.7	2.5	2.0	.8	.8
Phoenix	5.0	4.7	4.2	3.8	.6	.6	4.3	4.3	2.5	2.4	.6	.7
ARKANSAS	6.3	5.0	5.4	4.1	.5	.5	6.2	5.3	4.3	3.4	.6	1.0
Fort Smith	7.2	5.7	6.3	4.7	.3	.2	7.9	5.3	5.3	3.5	1.0	.6
Little Rock-North Little Rock	5.0	4.0	4.3	3.3	.4	.6	4.9	3.9	3.3	2.8	.4	.1
Pine Bluff	5.5	3.8	4.8	3.6	.4	.1	5.7	4.2	3.8	2.5	.7	1.2
COLORADO²	8.7	4.6	5.0	3.7	3.5	.7	4.0	4.6	2.3	2.3	.7	1.5
Denver-Boulder	4.2	4.1	3.9	3.6	.2	.3	3.3	3.5	2.0	2.0	.3	.5
CONNECTICUT	2.3	1.9	1.8	1.4	.3	.3	2.2	2.0	1.0	.8	.5	.6
Hartford	1.9	1.4	1.5	1.1	(*)	(*)	1.5	1.3	.8	.5	.2	.3
DELAWARE¹	2.4	2.0	1.2	1.0	.3	.3	2.0	1.7	.9	.6	.5	.4
Wilmington ¹	2.1	2.2	.9	1.0	.4	.3	1.9	1.5	.7	.5	.6	.4
DISTRICT OF COLUMBIA:												
Washington SMSA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
FLORIDA	5.9	5.2	4.6	3.6	1.0	1.4	4.5	3.9	2.8	2.4	.8	.7
Fort Lauderdale-Hollywood	6.7	5.3	5.9	5.1	.6	.2	4.3	3.8	3.1	2.8	.2	.2
Jacksonville	4.3	3.2	3.1	2.2	.9	1.0	4.4	2.8	2.1	1.3	1.4	.8
Miami	6.1	4.1	5.3	3.6	.7	.4	4.5	3.6	2.9	2.3	.8	.7
Orlando	5.4	4.1	3.5	3.0	1.7	.9	3.6	3.8	2.3	2.1	.6	1.0
Pensacola .....	.9	.7	.8	.6	(³)	(³)	1.4	1.1	.7	.6	.4	.3
Tampa-St. Petersburg	6.0	5.7	5.5	4.0	.4	.9	5.1	4.7	3.2	2.8	.7	.8
West Palm Beach-Boca Raton	5.2	6.3	3.3	4.6	1.7	1.7	3.2	2.8	2.2	1.7	.4	.3
GEORGIA⁴	4.2	3.5	3.6	2.8	.3	.4	3.9	3.7	2.6	2.1	.5	.7
Atlanta	3.3	3.0	2.8	2.3	.2	.4	3.1	2.8	1.5	1.6	.6	.6
HAWAII⁵	2.0	2.6	1.8	1.4	.1	.5	1.8	1.9	.9	1.1	.4	.7
IDAHO⁶	5.0	5.7	4.0	4.1	.5	1.4	5.5	6.4	3.5	3.0	.9	2.2
ILLINOIS:												
Chicago SMSA	3.5	2.7	3.0	2.2	.2	.3	3.5	3.0	1.7	1.4	.7	.7
INDIANA	2.8	2.3	2.0	1.4	.3	.3	3.2	2.4	1.3	.9	1.1	.9
Indianapolis	2.6	2.2	2.0	1.0	.1	.2	2.3	2.1	1.1	.7	.5	.9
IOWA²	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Cedar Rapids ²	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Des Moines	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
KANSAS	4.8	4.0	4.1	3.3	.5	.5	4.2	3.7	2.9	2.2	.4	.7
Topeka	3.0	3.9	2.1	1.9	.8	2.0	2.5	2.4	1.5	1.0	.5	.7
Wichita	5.0	4.7	4.4	4.2	.3	.2	4.2	3.4	3.0	2.2	.2	.2
KENTUCKY	4.8	3.8	3.2	2.2	1.0	1.1	3.8	3.4	1.8	1.5	1.0	1.0
Louisville	2.5	2.4	1.3	1.1	.4	.5	2.3	2.1	.9	.7	.2	.3
LOUISIANA:												
New Orleans	4.4	3.2	3.0	2.3	1.1	.7	3.6	3.1	2.2	1.6	.4	.6
MAINE	5.6	4.4	4.5	3.4	.9	.7	5.2	4.5	3.3	2.5	1.0	1.2
Portland	3.2	2.4	2.6	1.8	.4	.5	2.9	2.9	2.0	1.7	.3	.7
MARYLAND	2.8	2.1	1.5	1.2	1.0	.7	3.3	2.7	1.0	.9	1.7	1.2
Baltimore	2.4	2.1	1.3	1.1	.9	.8	3.0	2.7	.8	.7	1.6	1.4
MASSACHUSETTS	4.0	2.6	3.2	2.0	.6	.4	4.1	3.0	2.5	1.3	.8	1.2
Boston	3.2	2.2	2.5	1.8	.4	.3	3.7	2.8	2.0	1.0	.8	1.2
MICHIGAN	3.0	2.0	2.0	1.2	.5	.4	2.4	2.0	.9	.7	.6	.7
Detroit	2.9	2.2	2.3	1.5	.4	.4	3.3	2.1	1.1	.8	.5	.6
Flint	1.9	.8	1.3	.4	(³)	(³)	1.4	2.1	.4	.3	.2	.5
Grand Rapids	4.2	3.3	2.8	2.0	.6	.7	2.6	2.5	1.2	1.0	.6	.6
Lansing-East Lansing	5.8	3.2	3.9	1.4	.9	1.0	3.2	3.3	.7	.4	.6	.9

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		Recalls		Total		Quits		Layoffs	
	Oct. 1977	Nov. 1977 ^F	Oct. 1977	Nov. 1977 ^P	Oct. 1977	Nov. 1977 ^P	Oct. 1977	Nov. 1977 ^P	Oct. 1977	Nov. 1977 ^P	Oct. 1977	Nov. 1977 ^P
MINNESOTA	3.6	(*)	2.8	(*)	0.6	(*)	3.7	(*)	1.9	(*)	1.3	(*)
Minneapolis—St. Paul	3.0	(*)	2.4	(*)	.5	(*)	2.6	(*)	1.5	(*)	.5	(*)
MISSISSIPPI:												
Jackson	4.2	3.1	3.8	2.5	.4	0.4	4.2	3.0	2.6	2.1	.8	0.5
MISSOURI	3.7	3.0	2.9	2.1	.5	.6	3.5	3.2	1.8	1.4	.9	1.1
Kansas City	3.2	2.6	2.7	1.9	.4	.6	3.0	2.7	1.7	1.3	.6	.7
St. Louis	2.6	2.2	1.7	1.5	.7	.5	2.8	2.2	1.0	.7	1.1	.9
MONTANA	4.6	(*)	4.4	(*)	(*)	(*)	3.5	(*)	2.0	(*)	.9	(*)
NEBRASKA	3.9	3.0	3.5	2.6	.3	.3	4.2	3.5	2.4	1.8	1.0	1.1
NEVADA	7.0	6.7	6.5	6.2	.2	.3	6.2	7.4	4.6	4.3	.6	1.7
NEW HAMPSHIRE	4.2	3.2	3.7	2.9	.3	.1	3.5	3.1	2.5	2.1	.3	.4
NEW JERSEY:												
Camden ⁸	2.7	1.8	2.1	1.2	.2	.5	2.8	2.0	1.0	.6	.9	.7
Hackensack	3.6	3.0	3.0	2.6	.4	.4	4.2	3.3	1.8	1.3	1.5	1.2
Jersey City	2.8	2.6	1.9	2.0	.8	.5	3.7	2.8	.8	.8	2.1	1.2
Newark	2.9	2.3	2.0	1.6	.5	.5	2.8	2.4	1.1	.8	.9	.9
New Brunswick—Perth Amboy—Sayreville	3.9	2.3	3.0	1.8	.7	.4	3.0	3.3	1.2	1.0	.7	1.4
Peterson—Clifton—Passaic	3.8	3.0	2.7	1.9	.8	.6	3.0	3.6	1.1	1.3	1.1	1.6
Trenton	2.8	2.6	2.4	1.8	.3	.4	2.7	2.0	1.0	.8	.8	.5
NEW YORK	3.7	2.9	2.4	1.8	1.0	.9	3.5	3.3	1.3	1.0	1.4	1.7
Albany—Schenectady—Troy	2.6	2.3	1.5	1.5	.5	.4	2.7	2.4	.9	.8	.8	.8
Binghamton	4.1	2.1	3.8	1.7	.3	.3	3.6	2.1	1.8	1.0	.6	.6
Buffalo	2.6	2.0	1.3	1.0	1.0	.7	3.3	2.5	.7	.4	1.9	1.4
Elmira	2.1	2.0	1.5	1.0	.3	.7	3.0	1.9	.9	.6	1.3	.4
Monroe County ⁹	1.9	1.4	1.3	1.0	.1	.3	1.9	1.2	.9	.5	.5	.3
Nassau—Suffolk ¹⁰	5.2	5.0	4.1	3.7	.9	1.2	3.9	4.0	2.0	2.0	.9	.9
New York and Nassau—Suffolk	4.7	3.6	3.0	2.3	1.3	1.3	3.9	4.4	1.4	1.2	1.6	2.4
New York SMSA ¹⁰	4.6	3.3	2.8	1.9	1.7	1.3	3.9	4.5	1.2	1.0	1.8	2.8
New York City ¹¹	4.8	3.5	2.9	2.0	1.9	1.4	4.1	4.9	1.2	1.0	2.0	3.1
Rochester	2.6	1.8	1.9	1.3	.3	.4	3.0	2.0	1.3	.7	1.2	.9
Syracuse	2.5	1.9	1.7	1.3	.5	.4	2.8	2.1	1.0	.8	1.0	.7
Utica—Rome	3.1	2.5	1.8	1.4	1.1	.9	2.5	2.1	.9	.7	1.1	.8
Westchester County ¹¹	3.1	1.9	2.1	1.5	.6	.1	2.2	2.1	1.1	.8	.4	.7
NORTH CAROLINA	4.4	3.6	3.7	3.1	.3	.2	4.1	3.6	2.8	2.4	.4	.4
Charlotte—Gastonia	5.1	4.4	4.4	3.7	.3	.3	4.6	4.1	3.6	2.9	.1	.4
Greensboro—Winston-Salem—High Point	4.3	3.6	3.7	3.1	.1	.1	4.1	3.3	2.7	2.2	.4	.2
NORTH DAKOTA	5.9	3.6	4.0	3.0	1.8	.5	4.7	5.0	2.6	2.5	1.0	1.7
Fargo—Moorhead	4.4	3.3	3.2	2.9	.3	.1	2.1	6.5	1.3	2.0	.4	4.0
OHIO	2.6	1.9	1.7	1.1	(*)	(*)	3.0	2.5	1.0	.6	1.2	1.2
Akron	1.7	1.6	1.2	1.0	(*)	(*)	2.2	1.5	.5	.5	1.1	.5
Canton	2.5	2.1	1.3	1.0	(*)	(*)	2.9	2.7	1.0	.5	.9	1.3
Cincinnati	2.2	2.1	1.5	1.5	(*)	(*)	2.3	2.0	1.1	.8	.6	.7
Cleveland	2.8	1.9	2.1	1.3	(*)	(*)	2.8	2.2	1.1	.8	.7	.7
Columbus	2.7	2.0	2.3	1.3	(*)	(*)	2.7	1.7	1.3	.8	.5	.2
Dayton	2.2	1.7	1.7	1.1	(*)	(*)	2.0	1.6	.8	.7	.5	.5
Toledo	2.5	2.2	1.4	1.0	(*)	(*)	2.7	1.9	.9	.7	1.0	.7
Youngstown—Warren	2.0	1.6	.6	.4	(*)	(*)	3.4	3.8	.4	.2	1.7	2.7
OKLAHOMA	6.6	5.0	5.8	4.4	.6	.5	5.8	4.5	4.1	3.0	.7	.6
Oklahoma City	6.7	5.3	5.9	4.7	.7	.6	5.4	4.0	4.2	2.9	.4	.4
Tulsa ¹²	6.0	4.6	5.5	4.0	.4	.4	5.4	4.4	3.5	2.7	.6	.4
OREGON ¹	5.1	3.7	4.1	2.8	.9	.6	4.6	3.8	2.5	1.7	1.3	1.3
Portland ¹	5.3	4.1	4.4	3.2	.7	.7	4.3	3.5	2.4	1.6	.9	1.3
PENNSYLVANIA	2.6	2.4	1.7	1.3	.8	.9	3.1	3.0	1.0	.8	1.5	1.7
Allentown—Bethlehem—Easton	2.4	2.0	1.5	1.1	.7	.7	3.0	2.4	.9	.7	1.6	1.3
Altoona	3.8	2.1	2.5	1.2	1.1	.7	4.2	3.5	2.0	1.4	1.6	1.6
Erie	3.2	2.6	2.1	1.9	.7	.4	6.0	2.7	1.1	1.0	3.9	1.2
Harrisburg	3.0	2.1	2.2	1.6	.5	.4	2.8	1.8	1.2	1.2	.9	.3
Johnstown	5.8	4.4	1.5	1.0	4.2	3.3	6.2	4.8	1.1	.8	4.5	3.6
Lancaster	2.7	2.2	2.4	1.9	.2	.2	2.4	2.0	1.6	1.2	.3	.3

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		Recalls		Total		Quits		Layoffs	
	Oct. 1977	Nov. 1977 ^p	Oct. 1977	Nov. 1977 ^p	Oct. 1977	Nov. 1977 ^p	Oct. 1977	Nov. 1977 ^p	Oct. 1977	Nov. 1977 ^p	Oct. 1977	Nov. 1977 ^p
PENNSYLVANIA—Continued												
Northeast Pennsylvania	3.2	3.4	1.6	1.5	1.3	1.6	3.4	3.4	0.9	0.8	1.8	2.1
Philadelphia SMSA	2.7	2.0	1.9	1.2	.6	.6	2.7	2.3	1.0	.7	1.1	1.0
Pittsburgh	1.9	2.1	.7	.7	.9	1.2	3.2	2.1	.3	.3	2.2	1.2
Reading	3.2	3.2	2.5	2.1	.6	.9	2.7	2.7	1.4	1.1	.6	1.0
Scranton ¹³	3.2	3.7	2.1	1.8	1.0	1.7	2.3	3.4	1.2	.9	.7	2.1
Wilkes-Barre-Hazleton	2.9	2.8	1.0	1.1	1.2	1.2	4.6	2.9	.9	.8	2.9	1.6
Williamsport	2.0	1.5	1.7	1.0	.3	.4	2.7	2.5	.7	.5	1.7	1.6
York	3.9	2.6	3.4	2.2	.4	.2	2.7	3.0	1.9	1.4	.3	1.0
RHODE ISLAND												
Providence-Warwick-Pawtucket	5.7	4.8	4.7	3.0	.6	.7	4.9	4.5	2.8	2.2	1.2	1.4
	6.2	4.7	5.0	3.9	.7	.6	4.8	4.5	2.8	2.4	1.2	1.4
SOUTH CAROLINA												
Charleston-North Charleston	4.1	3.3	3.5	2.6	.3	.4	4.1	3.1	2.4	1.9	.7	.4
Columbia	4.0	3.2	3.3	2.8	.6	.3	3.9	4.6	2.3	2.3	.4	1.1
Greenville-Spartanburg	3.4	3.0	3.2	2.8	.1	.1	4.0	3.2	2.3	1.9	.8	.4
	4.5	3.6	3.9	3.1	.2	.2	4.0	3.3	2.6	2.3	.3	.1
SOUTH DAKOTA												
Sioux Falls	4.9	2.9	3.4	2.2	1.4	.7	4.7	3.5	2.9	2.1	1.1	.6
	5.3	2.9	2.2	1.1	3.1	1.7	5.3	3.1	2.2	1.3	2.5	1.0
TENNESSEE:												
Memphis	3.6	2.8	3.1	2.2	.4	.4	3.4	3.0	1.8	1.4	.7	.6
TEXAS:												
Dallas-Fort Worth	5.1	4.5	4.7	4.0	.2	.2	4.6	4.0	3.3	2.8	.4	.4
Houston	4.8	3.7	4.7	3.4	.1	.2	4.0	3.3	2.9	2.2	.2	.2
San Antonio	4.7	3.7	4.1	3.0	.5	.6	4.8	3.5	3.1	2.3	.6	.4
UTAH⁵												
Salt Lake City-Ogden ⁵	5.4	4.9	4.4	4.2	.7	.6	5.0	4.2	3.6	2.9	.4	.5
	5.0	4.8	4.7	4.2	.2	.5	4.8	4.2	3.5	2.9	.3	.5
VERMONT												
Burlington	3.9	2.8	2.5	1.9	1.1	.7	3.4	2.8	1.6	1.0	1.3	1.3
Springfield	3.7	1.8	2.3	1.4	1.0	(³)	1.8	2.5	.5	.6	1.0	1.8
	3.8	2.5	3.0	2.0	.7	.5	2.9	2.7	1.4	1.0	1.2	1.0
VIRGINIA												
Richmond	3.4	2.8	2.7	2.0	.3	.5	3.4	3.3	1.9	1.4	.6	1.1
	2.0	1.4	1.6	1.0	.1	.1	1.7	1.6	.8	.6	.1	.5
WASHINGTON:												
Seattle-Everett ¹⁴	4.1	3.1	3.1	2.2	.8	.8	3.2	3.1	1.5	1.4	1.0	1.2
WISCONSIN												
Milwaukee	3.2	2.5	2.3	1.6	.6	.5	3.3	3.0	1.3	1.0	1.2	1.3
	3.0	2.5	1.9	1.6	.6	.5	2.5	3.0	1.0	.8	.6	1.5
WYOMING												
	11.5	4.7	7.7	4.0	3.7	.5	7.7	6.1	4.7	2.8	1.7	2.4

¹ Excludes canning and preserving.

² Based on the 1967 Standard Industrial Classification Manual.

³ Less than 0.05.

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 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

⁹ Subarea of Rochester Standard Metropolitan Statistical Area.

¹⁰ Area included in New York and Nassau-Suffolk combined SMSA's.

¹¹ Subarea of New York Standard Metropolitan Statistical Area.

¹² Excludes new-hire rate for transportation equipment.

¹³ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

¹⁴ 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		
	DEC. 1976	NOV. 1977R	DEC. 1977P	DEC. 1976	NOV. 1977R	DEC. 1977P	DEC. 1976	NOV. 1977R	DEC. 1977P
ALABAMA	1,478.8	1,531.2	1,526.5	90.2	85.7	81.3	6.1	5.6	5.3
Birmingham	352.1	362.9	363.7	18.7	21.1	19.2	5.3	5.4	5.3
Huntsville	121.5	125.7	125.4	7.6	6.5	6.3	6.3	5.1	5.0
Mobile	165.6	173.5	174.1	11.1	10.3	9.4	6.7	5.9	5.4
Montgomery	102.7	107.6	107.8	5.3	4.8	4.5	5.1	4.5	4.2
Tuscaloosa	50.6	52.6	52.2	2.6	3.1	2.8	5.1	6.0	5.3
ALASKA	145.9	151.8	150.5	14.6	18.8	20.1	10.0	12.4	13.4
ARIZONA	959.1	975.8	980.3	75.8	61.7	58.4	7.9	6.3	6.0
Phoenix	558.2	573.4	577.4	42.3	32.5	31.2	7.5	5.7	5.4
Tucson	182.8	181.7	182.1	12.3	11.5	10.2	6.7	6.3	5.6
ARKANSAS	850.7	909.2	887.1	60.2	50.3	52.8	7.1	5.5	5.9
Fayetteville-Springdale	65.8	68.4	67.8	3.3	2.8	2.9	5.1	4.1	4.3
Fort Smith ¹	76.1	76.8	78.5	6.2	4.5	4.6	8.2	5.8	5.9
Little Rock-North Little Rock	166.1	174.3	174.2	8.2	6.4	7.6	5.0	3.6	4.4
Pine Bluff	32.0	33.8	33.0	2.1	1.8	1.8	6.4	5.2	5.5
CALIFORNIA	9,799.1	10,035.3	(*)	819.3	680.6	(*)	8.4	6.8	(*)
Anaheim-Santa Ana-Garden Grove	844.0	879.0	888.2	42.2	33.5	32.3	5.0	3.8	3.6
Bakersfield	149.7	157.4	160.5	12.1	12.3	13.1	8.1	7.8	8.2
Fresno	231.8	236.3	247.2	20.8	18.9	20.0	9.0	8.0	8.1
Los Angeles-Long Beach	3,318.6	3,358.6	3,381.7	254.0	206.4	204.9	7.7	6.1	6.1
Modesto	116.5	124.8	124.7	15.6	11.9	13.6	13.4	9.5	10.9
Oxnard-Simi Valley-Ventura	175.1	184.8	186.8	13.4	13.4	14.1	7.7	7.3	7.5
Riverside-San Bernardino-Ontario	493.0	496.5	501.9	45.0	38.0	38.3	9.1	7.7	7.6
Sacramento	398.8	421.1	425.5	33.6	27.5	28.9	8.4	6.5	6.8
Salinas-Seaside-Monterey	106.4	118.0	116.2	9.2	7.6	9.2	8.6	6.4	7.9
San Diego	659.0	676.6	679.3	69.1	59.2	58.0	10.5	8.7	8.5
San Francisco-Oakland	1,531.2	1,518.8	1,529.6	141.9	114.7	115.4	9.3	7.6	7.5
San Jose	567.4	587.3	591.1	38.4	31.3	32.0	6.8	5.3	5.4
Santa Barbara-Santa Maria-Lompoc	128.1	129.5	132.8	10.0	6.6	7.3	7.3	5.1	5.5
Santa Rosa	102.0	107.2	108.9	9.6	7.0	8.2	9.4	6.5	7.5
Stockton	142.0	149.3	149.7	15.9	13.9	16.5	11.2	9.3	11.0
Vallejo-Fairfield-Napa	108.6	113.5	113.4	8.2	7.0	7.4	7.5	6.2	6.5
COLORADO	1,213.2	1,242.2	1,238.4	68.9	66.1	66.9	5.7	5.3	5.4
Denver-Boulder	725.1	739.1	740.5	41.1	39.0	38.8	5.7	5.3	5.2
CONNECTICUT	1,469.7	1,455.2	1,457.5	120.3	77.7	76.5	8.2	5.3	5.3
Bridgeport	181.7	178.9	179.4	15.8	10.3	10.3	8.7	5.8	5.7
Hartford	346.4	345.5	347.9	27.0	16.2	16.2	7.3	4.7	4.7
New Britain	71.1	69.1	69.1	6.7	3.7	3.6	9.4	5.4	5.2
New Haven-West Haven	196.0	191.5	190.2	17.2	11.9	10.8	8.5	6.2	5.7
Stamford	106.4	108.0	108.7	5.9	4.2	4.0	5.5	3.9	3.7
Waterbury	106.1	102.8	102.3	9.9	6.4	6.3	9.3	6.2	6.1
DELAWARE	255.4	258.8	257.7	21.7	18.3	18.9	8.5	7.1	7.3
Wilmington ¹	225.1	230.3	229.0	19.0	15.8	16.0	8.4	6.9	7.0
DISTRICT OF COLUMBIA	331.0	335.8	337.1	25.5	24.0	23.7	7.7	7.1	7.0
Washington SMSA ¹	1,456.2	1,481.3	1,487.3	63.7	59.9	59.4	4.4	4.0	4.0
FLORIDA	3,536.1	3,545.6	(*)	265.6	224.6	(*)	7.5	6.3	(*)
Fort Lauderdale-Hollywood	348.1	349.0	358.5	32.5	25.2	24.4	9.3	7.2	6.8
Jacksonville	300.0	306.2	308.3	16.9	15.9	15.6	5.5	5.2	5.0
Miami	667.6	663.9	668.6	51.1	43.0	41.0	7.5	6.5	6.1
Orlando	277.5	275.7	281.1	21.2	17.8	16.8	7.5	6.5	6.0
Pensacola	110.2	113.5	115.2	5.9	5.2	5.4	5.4	4.6	4.6
Tampa-St. Petersburg	551.1	549.3	557.6	46.3	32.4	32.4	8.4	5.9	5.8
West Palm Beach-Boca Raton	204.1	198.0	210.1	15.8	13.5	13.0	7.5	6.8	6.2
GEORGIA	2,227.4	2,263.5	2,263.3	152.2	133.5	124.3	6.9	5.9	5.5
Atlanta	891.5	889.9	892.0	59.1	47.8	44.7	6.6	5.4	5.0
Augusta ¹	115.0	118.9	119.3	8.2	7.2	7.0	7.2	6.1	5.9
Columbus ¹	79.1	82.6	79.8	5.4	5.3	4.7	6.9	6.5	5.9
Macon	99.4	100.3	100.0	9.1	9.5	8.7	9.2	9.5	8.7
Savannah	82.2	85.1	84.2	5.6	6.2	5.5	6.8	7.3	6.5

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		
	DEC. 1976	NOV. 1977R	DEC. 1977P	DEC. 1976	NOV. 1977R	DEC. 1977P	DEC. 1976	NOV. 1977R	DEC. 1977P
HAWAII	397.3	405.3	408.1	34.7	31.3	28.2	8.7	7.7	6.9
Honolulu	318.8	321.3	322.6	26.7	24.2	21.7	8.4	7.5	6.7
IDAHO	367.3	380.6	378.9	21.4	15.7	18.2	5.8	4.1	4.8
Boise City	71.9	76.6	77.1	2.8	2.0	2.2	3.9	2.6	2.9
ILLINOIS	5,146.8	5,184.0	(*)	346.4	226.1	(*)	6.7	4.4	(*)
Bloomington—Normal	60.0	60.5	60.6	2.5	1.7	2.3	4.2	2.8	3.8
Champaign—Urbana—Rantoul	78.4	75.7	76.1	3.2	2.5	3.2	4.1	3.3	4.3
Chicago	3,246.1	3,236.2	3,237.2	216.8	129.4	135.3	6.7	4.0	4.2
Deavenport—Rock Island—Moline ¹	176.6	174.6	176.5	7.8	6.8	8.5	4.4	3.9	4.8
Decatur	62.5	58.9	58.9	5.5	3.2	3.9	8.9	5.5	6.6
Peoria	173.5	170.4	171.3	9.1	7.2	8.5	5.2	4.2	4.9
Rockford	136.7	130.4	129.5	9.0	7.6	6.4	6.6	5.8	5.0
Springfield	93.4	92.2	92.5	6.3	3.9	4.9	6.7	4.2	5.3
INDIANA	2,424.3	2,479.3	2,484.1	126.6	108.5	117.1	5.2	4.4	4.7
Evansville	130.4	132.7	132.3	5.3	5.0	4.9	4.1	3.8	3.7
Fort Wayne	176.3	179.8	179.5	7.4	6.0	6.7	4.2	3.3	3.7
Gary—Hammond—East Chicago	273.8	283.4	282.3	15.6	14.3	13.4	5.7	5.1	4.7
Indianapolis	552.3	567.0	567.1	30.4	28.3	29.2	5.5	5.1	5.2
Muncie	55.3	57.3	57.1	2.3	2.6	2.4	4.1	4.5	4.2
South Bend	133.1	133.6	133.7	6.4	5.4	5.4	4.8	4.1	4.0
Terre Haute	75.1	77.7	77.8	3.7	3.2	4.0	4.9	4.1	5.1
IOWA	1,308.2	1,390.8	1,365.2	49.9	33.7	41.4	3.8	2.4	3.0
Cedar Rapids	78.4	81.2	81.5	2.8	1.6	2.1	3.6	2.0	2.6
Des Moines	163.5	169.4	169.0	6.2	4.1	4.4	3.8	2.4	2.6
Dubuque	41.0	42.8	42.7	1.8	1.4	1.6	4.4	3.3	3.7
Sioux City ¹	56.4	57.1	55.8	2.5	2.2	2.2	4.4	3.8	3.9
Waterloo—Cedar Falls	61.0	64.0	63.7	2.6	1.6	1.8	4.3	2.5	2.9
KANSAS	1,085.0	1,123.6	1,122.5	44.3	41.0	38.6	4.1	3.7	3.4
Topeka	84.9	89.6	90.0	3.6	3.4	3.1	4.3	3.7	3.4
Wichita	193.3	200.9	197.4	9.3	7.5	6.5	4.8	3.7	3.3
KENTUCKY	1,427.0	1,524.4	1,526.5	75.4	69.2	80.5	5.3	4.6	5.3
Lexington—Fayette	152.2	158.1	158.6	4.5	4.8	5.5	2.9	3.0	3.4
Louisville ¹	379.8	401.6	404.1	23.3	18.0	20.4	6.1	4.5	5.0
LOUISIANA	1,477.5	1,412.7	1,404.5	91.9	93.5	91.7	6.2	6.6	6.5
Baton Rouge	187.3	181.9	180.5	10.3	12.8	12.2	5.5	7.0	6.8
Lake Charles	60.6	56.3	56.1	4.4	4.2	4.4	7.2	7.4	7.8
Monroe	47.5	44.4	44.3	3.5	3.1	3.1	7.4	7.0	7.1
New Orleans	435.1	411.0	409.1	28.1	30.6	26.8	6.4	7.4	6.6
Shreveport	138.3	130.6	131.5	8.8	7.8	7.6	6.4	6.0	5.8
MAINE	471.8	484.0	484.0	41.9	36.3	38.5	8.9	7.5	7.9
Lewiston—Auburn	37.2	38.6	38.7	2.8	2.6	2.9	7.5	6.7	7.5
Portland	88.0	87.8	88.8	8.2	5.5	5.9	9.3	6.3	6.7
MARYLAND	1,910.7	1,933.8	1,934.0	117.4	98.8	103.5	6.1	5.1	5.4
Baltimore	968.5	978.6	981.6	70.7	62.6	66.5	7.3	6.4	6.8
MASSACHUSETTS	2,743.6	2,731.2	(*)	208.6	140.3	(*)	7.6	5.1	(*)
Boston	1,334.7	1,320.8	1,328.8	90.5	65.6	66.4	6.7	5.0	5.0
Brockton	76.2	76.7	78.2	6.3	4.0	4.5	8.2	5.2	5.7
Fall River ¹	73.8	74.7	77.3	6.8	4.1	5.0	9.2	5.5	6.5
Lawrence—Haverhill ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Lowell ¹	106.1	107.0	109.4	8.8	5.5	6.4	8.3	5.2	5.9
New Bedford	80.0	80.1	81.1	8.1	5.5	6.4	10.2	6.9	7.9
Springfield—Chicopee—Holyoke ¹	265.7	266.8	269.0	19.4	12.3	13.7	7.3	4.6	5.1
Worcester	193.0	192.1	194.0	13.7	7.8	8.5	7.1	4.1	4.4
MICHIGAN	4,054.4	4,110.8	(*)	339.6	229.1	(*)	8.4	5.6	(*)
Ann Arbor	133.0	135.3	137.6	9.1	5.4	6.0	6.9	4.0	4.3
Battle Creek	82.1	81.1	81.6	7.1	4.8	4.9	8.7	5.9	6.0
Bay City	51.2	53.4	54.1	4.2	3.2	3.2	8.2	6.0	5.9
Detroit	1,928.0	1,929.7	1,950.8	154.8	102.9	115.0	8.0	5.3	5.9
Flint	219.5	220.4	225.6	17.2	11.7	13.6	7.8	5.3	6.0

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		
	DEC. 1976	NOV. 1977R	DEC. 1977P	DEC. 1976	NOV. 1977R	DEC. 1977P	DEC. 1976	NOV. 1977R	DEC. 1977P
MICHIGAN—Continued									
Grand Rapids	273.3	287.8	290.5	18.1	12.3	12.2	6.5	4.3	4.2
Jackson	66.0	65.2	65.5	5.7	3.5	3.8	8.5	5.4	5.7
Kalamazoo—Portage	129.8	131.5	132.4	6.7	6.0	6.6	6.7	4.6	4.9
Lansing—East Lansing	217.0	226.7	229.2	15.0	11.2	11.5	6.9	4.9	5.0
Muskegon—Norton Shores—Muskegon Heights	77.1	75.4	75.9	6.7	5.0	5.4	8.7	6.4	7.1
Saginaw	100.5	102.7	104.0	6.8	4.8	4.6	6.5	4.7	4.5
MINNESOTA	1,843.5	1,921.2	1,902.3	106.0	80.6	95.1	5.7	4.2	5.0
Duluth—Superior	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Minneapolis—St. Paul	1,015.7	1,046.6	1,052.3	59.7	48.0	50.6	5.9	4.6	4.8
MISSISSIPPI	940.5	982.1	977.4	61.4	55.8	56.0	6.5	5.7	5.7
Jackson	135.8	137.4	136.6	7.3	6.3	5.9	5.4	4.6	4.3
MISSOURI	2,105.8	2,114.7	2,112.2	125.6	101.8	111.1	6.0	4.8	5.3
Kansas City ¹	600.7	611.5	611.0	35.2	29.6	29.2	5.7	4.8	4.8
St. Joseph	46.4	44.5	45.0	3.1	2.4	2.7	6.7	5.5	6.0
St. Louis ¹	1,030.5	1,027.8	1,031.9	69.8	55.5	59.9	6.8	5.4	5.8
Springfield	95.3	97.5	97.3	4.5	4.0	4.6	4.7	4.1	4.7
MONTANA	325.1	N.A.	N.A.	19.0	N.A.	N.A.	5.8	N.A.	N.A.
Billings	51.2	N.A.	N.A.	2.2	N.A.	N.A.	4.3	N.A.	N.A.
Great Falls	33.5	N.A.	N.A.	1.7	N.A.	N.A.	4.9	N.A.	N.A.
NEBRASKA	711.4	731.2	725.2	22.3	18.4	19.9	3.1	2.5	2.8
Lincoln	97.8	104.8	104.8	2.4	2.2	2.5	2.5	2.1	2.4
Omaha ¹	252.7	261.7	260.8	10.8	9.1	8.5	4.3	3.5	3.3
NEVADA	308.2	328.4	328.6	26.4	21.6	22.9	8.5	6.4	7.0
Las Vegas	168.4	178.6	179.3	15.9	13.6	14.1	9.5	7.6	7.9
Reno	87.0	92.4	92.7	5.6	4.2	4.6	6.4	4.6	5.0
NEW HAMPSHIRE	389.2	416.3	418.0	22.3	18.1	19.6	5.7	4.4	4.7
Manchester	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NEW JERSEY	3,287.6	3,322.2	(*)	308.7	258.5	(*)	9.4	7.8	(*)
Atlantic City	74.6	78.3	77.6	10.1	9.2	9.7	13.5	11.7	12.5
Jersey City	252.9	246.3	246.8	33.0	26.3	27.9	13.0	10.7	11.3
Long Branch—Asbury Park	202.6	209.3	210.9	18.5	16.2	16.9	9.1	7.8	8.0
Newark	917.6	926.5	925.8	79.3	67.3	63.7	8.5	7.3	6.9
New Brunswick—Perth Amboy—Sayreville	285.6	289.1	294.7	25.8	18.6	20.6	9.0	6.4	7.0
Peterborough—Clifton—Passaic	204.0	204.1	205.4	22.8	18.8	19.4	11.2	9.2	9.4
Trenton	148.8	152.3	154.1	9.9	8.7	9.1	6.7	5.7	5.9
Vineland—Millville—Bridgeton	55.2	55.2	56.1	6.9	5.6	5.8	12.5	10.1	10.3
NEW MEXICO	466.4	493.0	491.9	39.9	34.8	34.5	8.5	7.1	7.0
Albuquerque	172.9	181.6	181.8	15.1	12.8	12.1	8.7	7.1	6.6
NEW YORK	7,696.6	7,579.9	(a)	748.2	560.8	(*)	9.7	7.4	(*)
Albany—Schenectady—Troy	358.4	354.8	356.5	29.2	22.5	23.7	8.1	6.3	6.7
Binghamton ¹	133.1	134.2	135.1	10.4	8.4	9.1	7.5	6.2	6.8
Buffalo	565.7	563.1	564.6	53.0	41.8	43.8	9.4	7.4	7.8
Elmira	41.2	40.6	40.3	4.6	3.3	3.5	11.2	8.2	8.7
Nassau—Suffolk	1,129.1	1,112.9	1,120.7	105.8	71.2	71.7	9.4	6.4	6.4
New York	3,624.8	3,522.1	3,535.1	361.7	271.9	269.6	10.0	7.7	7.6
Poughkeepsie	97.8	99.3	99.9	6.0	5.2	5.6	6.2	5.2	5.6
Rochester	455.2	453.5	455.6	33.4	27.4	29.3	7.3	6.0	6.4
Syracuse	289.5	294.3	294.4	26.4	20.5	21.2	9.1	7.0	7.2
Utica—Rome	137.6	136.3	136.8	14.7	11.1	11.6	10.7	8.1	8.5
NORTH CAROLINA	2,545.4	2,591.9	2,588.3	149.2	124.7	119.0	5.9	4.8	4.6
Asheville	77.6	79.8	80.9	4.2	4.0	4.4	5.4	5.0	5.4
Charlotte—Gastonia	313.6	316.4	317.1	16.1	11.0	10.8	5.1	3.5	3.4
Greensboro—Winston-Salem—High Point	397.3	401.5	402.8	21.2	15.8	15.8	5.3	3.9	3.9
Raleigh—Durham	253.7	258.4	259.1	10.2	7.5	7.9	4.0	2.9	3.0
NORTH DAKOTA	267.4	284.3	277.1	11.1	10.3	11.5	4.1	3.6	4.1
Fargo—Moorhead ¹	65.4	69.3	68.2	2.2	2.4	2.4	3.4	3.4	3.5

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					
	DEC. 1976	NOV. 1977R	DEC. 1977P	Number			Percent of labor force		
				DEC. 1976	NOV. 1977R	DEC. 1977P	DEC. 1976	NOV. 1977R	DEC. 1977P
OHIO	4,754.0	(*)	4,838.5	353.5	(*)	312.9	7.4	(*)	6.5
Akron	292.2	291.1	294.4	22.1	17.2	18.5	7.5	5.9	6.3
Canton	176.9	176.3	178.2	15.5	11.1	12.3	8.7	6.3	6.9
Cincinnati ¹	588.0	594.3	597.2	46.9	41.0	43.0	8.0	6.9	7.2
Cleveland	895.6	899.3	904.2	58.1	47.0	50.5	6.5	5.7	5.6
Columbus	509.9	517.3	521.1	30.1	25.7	26.7	5.9	5.0	5.1
Dayton	365.1	372.1	374.6	20.6	18.0	19.2	5.6	4.8	5.1
Toledo ¹	355.6	363.8	364.4	33.0	23.4	23.1	9.3	6.4	6.3
Youngstown—Warren	235.1	236.1	236.9	21.9	19.2	18.8	9.3	8.1	7.9
OKLAHOMA	1,171.9	1,208.6	1,212.9	56.8	45.8	42.0	4.8	3.8	3.5
Oklahoma City	349.5	372.1	375.7	16.5	12.3	10.7	4.7	3.3	2.9
Tulsa	284.2	289.6	291.2	12.8	11.2	10.7	4.5	3.9	3.7
OREGON	1,068.4	1,120.7	1,116.0	94.4	84.7	86.8	8.8	7.6	7.8
Eugene—Springfield	111.3	121.2	119.8	11.7	10.0	9.9	10.5	8.3	8.3
Portland ¹	520.7	541.0	540.5	40.0	35.5	34.1	7.7	6.6	6.3
Salem	95.7	101.7	99.7	8.6	6.7	8.1	9.0	6.6	8.1
PENNSYLVANIA	5,105.6	(*)	5,076.7	392.2	(*)	321.3	7.7	(*)	6.2
Allentown—Bethlehem—Easton ¹	301.0	297.5	293.8	22.0	15.3	14.8	7.3	5.1	5.0
Altoona	56.7	57.7	58.1	3.9	3.0	3.6	6.9	5.1	6.2
Erie	121.5	122.1	121.4	9.6	6.1	7.0	7.9	5.0	5.7
Harrisburg	208.0	208.7	208.2	10.4	7.8	8.7	5.0	3.7	4.2
Johnstown	107.7	107.4	108.4	7.1	7.8	10.6	6.5	7.2	9.8
Lancaster	161.1	160.0	164.5	8.1	5.1	6.0	5.1	3.0	3.6
Northeast Pennsylvania	277.4	271.2	271.1	28.0	17.5	21.1	10.1	6.4	7.8
Philadelphia ¹	2,024.4	2,000.9	2,002.3	163.4	129.1	128.6	8.1	6.5	6.4
Pittsburgh	991.1	985.1	987.1	80.4	61.1	66.9	8.1	6.2	6.8
Reading	146.2	146.6	146.5	8.0	5.6	6.0	5.5	3.8	4.1
Williamsport	50.5	50.9	50.5	4.9	3.3	3.7	9.7	6.4	7.4
York	156.8	159.9	159.6	9.7	6.2	7.3	6.2	3.9	4.6
RHODE ISLAND	437.7	433.5	439.9	30.6	21.9	23.7	7.0	5.0	5.4
Providence—Warwick—Pawtucket ¹	443.9	440.6	447.8	30.6	22.0	23.8	6.9	5.0	5.3
SOUTH CAROLINA	1,244.5	1,279.2	1,270.9	72.2	65.6	59.5	5.8	5.1	4.7
Charleston—North Charleston	137.1	144.4	144.1	7.9	8.4	7.3	5.7	5.8	5.1
Columbia	158.4	168.4	168.8	7.0	6.9	5.9	4.4	4.1	3.5
Greenville—Spartanburg	246.6	247.6	247.0	12.2	11.5	10.3	4.9	4.4	4.2
SOUTH DAKOTA	306.5	315.9	314.0	11.5	6.6	9.1	3.8	2.1	2.9
Sioux Falls	56.7	56.7	57.2	1.7	1.0	1.4	3.0	1.8	2.5
TENNESSEE	1,843.7	1,887.4	1,885.6	103.5	83.9	86.8	5.6	4.4	4.6
Chattanooga ¹	179.6	181.4	182.2	9.5	8.7	7.6	5.3	4.8	4.2
Knoxville	192.7	199.5	198.8	7.8	7.1	7.3	4.1	3.6	3.7
Memphis ¹	364.2	368.0	369.7	20.2	17.2	17.2	5.5	4.7	4.7
Nashville—Davidson	373.2	376.6	381.7	15.6	11.5	12.5	4.2	3.1	3.3
TEXAS	5,593.4	(*)	5,653.3	294.9	(*)	268.1	5.3	(*)	4.7
Amarillo	82.3	85.0	86.1	2.6	2.6	2.7	3.1	3.1	3.1
Austin	193.7	203.9	205.9	9.2	8.3	7.8	4.7	4.1	3.8
Beaumont—Port Arthur—Orange	160.4	161.0	161.4	10.9	11.0	11.2	6.8	6.8	7.0
Corpus Christi	127.8	128.4	128.7	8.5	7.7	7.2	6.7	6.0	5.6
Dallas—Fort Worth	1,272.5	1,303.0	1,303.3	48.2	41.9	39.1	3.8	3.2	3.0
El Paso	158.5	160.0	159.6	19.1	17.3	15.9	12.0	10.8	10.0
Galveston—Texas City	87.6	94.0	93.2	7.1	6.6	6.3	8.1	7.1	6.8
Houston	1,191.5	1,255.7	1,259.4	59.0	54.1	51.7	5.0	4.3	4.1
Lubbock	98.5	104.2	102.6	2.6	2.9	2.9	2.7	2.8	2.8
San Antonio	381.5	389.1	393.1	25.3	25.8	24.5	6.5	6.6	6.2
Waco	73.2	76.3	76.8	3.1	3.6	3.4	4.2	4.7	4.5
Wichita Falls	57.2	58.6	59.4	2.3	2.0	1.8	4.1	3.4	3.1
UTAH	519.8	537.1	536.3	26.9	23.0	24.2	5.2	4.3	4.5
Salt Lake City—Ogden	346.0	357.4	358.2	17.5	15.4	15.8	5.1	4.3	4.4
VERMONT	216.8	221.1	223.0	17.5	15.3	16.1	8.1	6.9	7.2

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		
	DEC. 1976	NOV. 1977R	DEC. 1977P	DEC. 1976	NOV. 1977R	DEC. 1977P	DEC. 1976	NOV. 1977R	DEC. 1977P
VIRGINIA	2,326.5	2,394.0	2,404.2	130.1	116.1	125.0	5.5	4.8	5.2
Lynchburg	69.4	71.2	71.3	3.1	2.9	3.1	4.5	4.1	4.4
Newport News—Hampton	155.3	162.7	164.6	9.5	9.6	10.2	6.1	5.9	6.2
Norfolk—Virginia Beach—Portsmouth ¹	308.1	316.2	317.0	21.8	19.3	19.5	7.1	6.1	6.1
Richmond	305.6	320.7	322.1	12.2	11.7	11.6	4.0	3.7	3.6
Roanoke	109.1	111.6	112.5	6.1	4.8	6.7	5.5	4.3	5.9
WASHINGTON	1,591.9	1,648.3	1,649.9	129.1	94.6	96.7	8.1	5.7	5.9
Seattle—Everett	711.2	740.2	743.8	55.1	42.5	39.8	7.7	5.7	5.4
Spokane	127.3	131.9	131.4	9.0	6.2	6.5	7.1	4.7	5.0
Tacoma	151.6	154.5	155.4	14.7	9.8	9.7	9.7	6.3	6.3
WEST VIRGINIA	688.7	698.4	705.1	50.8	40.7	53.9	7.4	5.8	7.6
Charleston	110.4	110.0	111.1	5.5	4.4	5.9	5.0	4.0	5.3
Huntington—Ashland ¹	112.1	110.9	113.5	7.0	5.9	9.3	6.2	5.3	8.2
Parkersburg—Martinsburg ¹	63.6	63.1	64.1	4.5	3.3	4.5	7.1	5.2	7.0
Wheeling ¹	78.5	79.1	81.0	6.5	5.7	8.0	8.2	7.3	9.8
WISCONSIN	2,193.7	2,259.0	2,270.1	119.4	92.0	111.2	5.4	4.1	4.9
Appleton—Oshkosh	140.9	142.9	143.2	7.0	5.3	6.0	5.0	3.7	4.2
Green Bay	86.4	88.7	89.9	4.5	3.3	4.2	5.2	3.8	4.7
Kenosha	61.9	63.0	65.0	6.0	2.6	4.3	9.5	4.1	6.6
La Crosse	43.7	45.1	45.4	2.2	1.8	2.1	5.1	3.9	4.7
Madison	175.4	182.9	182.5	6.4	4.9	5.6	3.5	2.7	3.1
Milwaukee	690.7	701.2	706.7	37.3	32.2	36.6	5.4	4.6	5.2
Racine	90.3	91.7	92.4	5.7	3.6	4.0	6.3	3.9	4.3
WYOMING	176.6	193.2	191.7	7.0	7.6	7.2	3.9	3.9	3.7

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.

*Data for California, Florida, Illinois, Massachusetts, Michigan, New Jersey, New York, Ohio, Pennsylvania, and Texas will henceforth be based on the Current Population Survey (CPS), since these data meet minimum standards of reliability. The following table shows December 1977 data for these 10 States based both on the old estimating procedure and on the new CPS estimates.

State	December 1977 estimates using BLS estimating procedures for State and Local Area Unemployment Statistics			December 1977 estimates using data obtained from the Current Population Survey (CPS)		
	Labor force	Unemployment Number	Percent of the labor force	Labor force	Unemployment Number	Percent of the labor force
California	10,122.0	699.3	6.9	10,320.1	714.0	6.9
Florida	3,609.3	218.0	6.0	3,639.2	250.8	6.9
Illinois	5,193.4	252.4	4.9	5,255.9	292.0	5.6
Massachusetts	2,755.8	151.9	5.5	2,789.1	163.7	5.9
Michigan	4,144.2	251.8	6.1	4,138.9	290.9	7.0
New Jersey	3,337.0	260.1	7.8	3,450.4	238.8	6.9
New York	7,608.0	574.6	7.6	7,784.5	681.1	8.1
Ohio	4,838.5	312.9	6.5	4,797.7	242.1	5.1
Pennsylvania	5,076.7	321.3	6.3	5,208.9	379.5	7.3
Texas	5,765.3	268.1	4.7	5,893.1	275.7	4.7

The estimates for the other 40 States and all metropolitan areas except Los Angeles-Long Beach (for which reliable CPS monthly estimates are also available) will be revised next month to conform with 1977 annual averages from the CPS.

Revised

Seasonally Adjusted

Labor Force Series

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
CIVILIAN LABOR FORCE PARTICIPATION RATE - BOTH SEXES 25 YEARS AND OVER												
1973.....	59.5	59.8	59.9	59.9	59.9	60.0	60.0	59.9	60.0	60.0	60.2	60.2
1974.....	60.3	60.3	60.2	60.1	60.2	60.2	60.4	60.2	60.2	60.2	60.1	60.1
1975.....	60.2	59.9	60.1	60.3	60.4	60.3	60.4	60.3	60.3	60.4	60.2	60.0
1976.....	60.3	60.2	60.2	60.3	60.3	60.5	60.6	60.6	60.7	60.6	60.6	60.7
1977.....	60.5	60.7	60.8	60.9	61.1	61.0	60.9	60.8	61.0	61.2	61.5	61.4
CIVILIAN LABOR FORCE PARTICIPATION RATE - MALES 25 YEARS AND OVER												
1973.....	80.6	80.8	81.0	80.7	80.6	80.7	80.7	80.5	80.5	80.5	80.5	80.6
1974.....	80.8	80.9	80.6	80.3	80.3	80.2	80.0	80.1	80.1	80.2	80.0	80.0
1975.....	79.7	79.5	79.6	79.7	79.9	79.7	79.8	79.6	79.6	79.5	79.3	79.0
1976.....	78.9	78.8	78.8	79.0	78.9	79.0	79.0	79.0	79.2	79.0	78.9	78.7
1977.....	78.6	78.7	78.7	78.7	78.8	78.9	78.6	78.5	78.4	79.0	79.0	79.1
CIVILIAN LABOR FORCE PARTICIPATION RATE - FEMALES 25 YEARS AND OVER												
1973.....	41.1	41.4	41.5	41.7	41.7	41.9	41.9	41.9	42.0	42.0	42.3	42.2
1974.....	42.2	42.3	42.3	42.4	42.5	42.6	43.1	42.6	42.7	42.6	42.6	42.6
1975.....	43.0	42.7	43.0	43.2	43.2	43.3	43.3	43.3	43.3	43.6	43.4	43.4
1976.....	43.9	43.9	43.9	43.9	44.0	44.2	44.5	44.5	44.5	44.4	44.6	44.8
1977.....	44.6	44.8	45.0	45.2	45.4	45.2	45.3	45.2	45.7	45.5	46.0	45.8
CIVILIAN LABOR FORCE PARTICIPATION RATE - BOTH SEXES 25-34 YEARS												
1973.....	71.3	71.8	71.7	71.8	71.9	72.2	72.2	72.2	72.1	72.6	73.0	73.2
1974.....	73.3	73.3	73.2	72.9	73.2	73.1	73.3	73.4	73.6	73.9	74.2	73.8
1975.....	74.0	73.4	73.8	74.1	74.3	74.5	74.4	74.4	74.7	74.9	74.7	74.4
1976.....	74.9	74.8	75.1	75.1	75.6	75.9	76.0	76.0	75.9	75.8	75.9	76.0
1977.....	75.8	76.4	76.6	76.8	76.8	77.3	77.2	77.3	77.2	77.1	77.0	77.1
CIVILIAN LABOR FORCE PARTICIPATION RATE - MALES 25-34 YEARS												
1973.....	95.6	95.8	95.7	95.7	95.6	95.8	96.0	95.6	95.4	95.8	95.7	96.0
1974.....	96.6	96.0	96.0	95.6	95.9	95.9	95.7	95.7	95.7	95.9	96.2	95.8
1975.....	95.5	95.0	95.2	95.4	95.5	95.5	95.4	95.1	95.3	95.7	95.3	94.9
1976.....	95.0	94.9	95.1	95.3	95.5	95.5	95.4	95.1	95.4	95.5	95.5	95.2
1977.....	95.0	95.5	95.5	95.4	95.2	95.7	95.4	95.4	95.1	95.5	95.3	95.5
CIVILIAN LABOR FORCE PARTICIPATION RATE - FEMALES 25-34 YEARS												
1973.....	48.7	49.4	49.3	49.4	49.7	50.1	49.9	50.3	50.2	51.0	51.6	51.7
1974.....	51.5	52.1	51.9	51.7	51.9	51.7	52.3	52.6	52.8	53.3	53.5	53.1
1975.....	53.8	53.2	53.7	54.1	54.4	54.7	54.8	55.0	55.3	55.5	55.3	55.1
1976.....	56.1	56.0	56.3	56.8	56.8	57.4	57.8	58.0	57.4	57.2	57.4	57.9
1977.....	57.7	58.5	58.8	59.3	59.5	60.0	60.0	60.2	60.3	59.8	59.7	59.8
CIVILIAN LABOR FORCE PARTICIPATION RATE - BOTH SEXES 35-44 YEARS												
1973.....	73.4	73.6	73.8	73.8	74.0	74.3	73.9	73.9	74.1	74.0	74.0	74.0
1974.....	74.3	74.3	74.1	74.2	74.2	74.7	75.1	74.8	74.9	74.6	74.8	74.9
1975.....	74.9	74.5	74.6	74.8	74.8	75.0	74.9	75.4	75.2	75.2	75.0	75.1
1976.....	75.3	75.6	75.7	75.7	75.5	75.8	75.7	76.1	76.3	76.2	76.2	76.4
1977.....	76.3	76.3	76.6	76.6	77.0	77.0	77.1	77.0	76.8	77.1	77.6	77.6
CIVILIAN LABOR FORCE PARTICIPATION RATE - MALES 35-44 YEARS												
1973.....	96.3	96.4	96.4	96.3	96.2	96.0	96.2	96.0	96.1	96.0	95.9	96.2
1974.....	96.5	96.4	96.3	95.9	96.0	96.1	95.7	96.0	96.0	96.0	95.9	96.0
1975.....	95.5	95.2	95.4	95.4	95.8	96.0	96.0	96.0	95.9	95.7	95.6	95.3
1976.....	95.2	95.2	95.4	95.4	95.3	95.0	95.6	95.5	95.8	95.5	95.5	95.5
1977.....	95.4	95.6	95.6	95.6	95.9	95.7	95.6	95.5	95.3	95.9	96.0	96.1
CIVILIAN LABOR FORCE PARTICIPATION RATE - FEMALES 35-44 YEARS												
1973.....	52.3	52.5	53.0	53.0	53.6	54.3	53.3	53.4	53.6	53.7	53.5	53.5
1974.....	53.7	53.9	53.5	54.2	54.0	55.0	56.0	55.3	55.4	54.9	55.2	55.5
1975.....	55.8	55.2	55.3	55.8	55.3	55.5	55.3	56.4	56.0	56.4	56.0	56.4
1976.....	56.8	57.4	57.6	57.5	57.2	58.1	57.3	58.1	58.3	58.4	58.4	58.7
1977.....	58.6	58.5	59.1	59.1	59.5	59.7	60.0	59.9	59.6	59.7	60.6	60.6
CIVILIAN LABOR FORCE PARTICIPATION RATE - BOTH SEXES 45-54 YEARS												
1973.....	71.9	72.3	72.3	72.6	72.2	72.3	72.9	72.4	72.7	72.6	72.8	72.8
1974.....	72.9	72.9	72.8	72.6	72.8	72.9	73.1	72.5	72.5	72.6	72.4	72.6
1975.....	72.4	72.3	72.7	72.5	72.8	72.8	72.8	72.9	72.6	73.1	72.5	72.5
1976.....	72.5	72.4	72.2	72.3	72.4	72.5	73.0	72.7	72.7	72.8	72.8	72.9
1977.....	72.7	72.6	72.8	72.7	72.7	72.6	72.2	72.3	72.8	73.0	73.6	73.6
CIVILIAN LABOR FORCE PARTICIPATION RATE - MALES 45-54 YEARS												
1973.....	92.8	92.9	93.2	92.9	92.8	92.9	93.0	92.9	93.0	93.0	92.8	92.9
1974.....	93.1	93.1	92.5	91.8	92.1	92.0	92.0	91.9	91.7	92.2	91.9	92.0
1975.....	91.6	91.3	91.7	91.7	92.5	92.2	92.2	92.8	92.4	92.7	92.1	91.9
1976.....	91.7	91.4	91.3	91.5	91.3	91.6	91.8	91.7	91.6	91.7	91.4	91.6
1977.....	91.1	91.1	91.0	91.1	91.1	91.2	90.6	90.8	90.7	91.3	91.4	91.9
CIVILIAN LABOR FORCE PARTICIPATION RATE - FEMALES 45-54 YEARS												
1973.....	52.7	53.4	53.1	53.9	53.3	53.4	54.4	53.6	54.1	53.8	54.4	54.2
1974.....	54.2	54.2	54.5	54.8	54.9	55.2	55.6	54.5	54.6	54.5	54.3	54.6
1975.....	54.6	54.6	55.0	54.7	54.5	54.7	54.7	54.5	54.2	54.9	54.3	54.6
1976.....	54.7	54.7	54.4	54.5	54.7	54.7	55.5	55.1	55.2	55.3	55.5	55.5
1977.....	55.6	55.5	56.0	55.5	55.6	55.2	55.1	55.2	56.1	56.1	56.9	56.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
CIVILIAN LABOR FORCE PARTICIPATION RATE - BOTH SEXES 55 YEARS AND OVER												
1973.....	36.1	36.3	36.3	36.0	35.9	36.1	36.1	36.0	35.8	35.7	35.6	35.6
1974.....	35.6	35.8	35.6	35.6	35.3	35.2	35.2	35.3	35.1	35.0	34.5	34.9
1975.....	34.9	35.0	34.9	35.0	35.0	34.7	34.9	34.5	34.4	34.4	34.3	34.3
1976.....	34.3	34.2	34.0	33.8	33.7	33.9	33.9	34.1	34.0	33.9	33.9	34.0
1977.....	33.6	33.8	33.6	33.8	33.9	33.6	33.3	33.3	33.7	34.0	34.2	34.2
CIVILIAN LABOR FORCE PARTICIPATION RATE - MALES 55 YEARS AND OVER												
1973.....	51.6	51.9	52.2	51.5	51.3	51.7	51.5	51.1	51.1	51.2	51.0	51.1
1974.....	51.1	51.6	51.2	51.1	50.6	50.4	50.4	50.7	50.4	50.6	49.9	50.3
1975.....	50.2	50.2	49.9	50.0	49.8	49.3	49.7	49.2	49.0	48.7	48.5	48.4
1976.....	48.4	47.8	47.9	47.8	47.8	48.1	47.8	48.2	48.2	47.8	47.8	47.7
1977.....	47.5	47.4	47.4	47.2	47.6	47.5	47.3	47.1	47.1	47.8	47.9	48.1
CIVILIAN LABOR FORCE PARTICIPATION RATE - FEMALES 55 YEARS AND OVER												
1973.....	23.8	23.9	23.7	23.8	23.8	23.8	24.0	24.1	23.8	23.6	23.6	23.4
1974.....	23.3	23.3	23.3	23.3	23.2	23.2	23.3	23.1	22.9	22.6	22.3	22.7
1975.....	22.9	23.0	23.1	23.2	23.3	23.3	23.2	22.9	22.9	23.2	23.0	23.2
1976.....	23.3	23.5	23.1	22.9	22.7	22.7	22.9	23.0	22.9	23.0	23.1	23.2
1977.....	22.7	23.0	22.7	23.2	23.1	22.6	22.3	22.5	23.1	23.1	23.3	23.2
CIVILIAN LABOR FORCE PARTICIPATION RATE - BOTH SEXES 55-64 YEARS												
1973.....	59.0	59.2	58.9	58.4	58.3	58.5	58.5	58.3	58.4	58.3	58.1	58.2
1974.....	58.4	58.8	58.8	58.6	58.1	58.0	58.0	58.0	57.6	57.3	57.0	57.5
1975.....	57.6	57.7	57.5	57.5	57.6	57.4	57.6	57.2	57.2	57.2	57.0	57.0
1976.....	57.0	56.8	56.6	56.7	56.3	56.8	56.8	57.2	57.1	57.0	56.8	56.7
1977.....	56.5	56.4	56.3	56.6	56.9	56.5	56.1	55.9	56.5	57.0	57.1	56.9
CIVILIAN LABOR FORCE PARTICIPATION RATE - MALES 55-64 YEARS												
1973.....	78.9	79.3	79.1	78.3	77.9	78.5	78.1	77.6	78.0	77.9	77.8	78.0
1974.....	78.2	78.8	78.5	78.1	77.3	77.0	76.9	77.3	76.8	76.7	76.4	76.6
1975.....	76.6	76.5	76.0	76.0	76.1	75.6	76.1	75.8	75.5	75.1	74.9	74.8
1976.....	74.8	73.9	74.2	74.4	74.3	74.9	74.5	75.1	75.0	74.6	74.2	74.0
1977.....	73.9	73.8	74.3	74.3	74.2	74.3	73.7	73.3	73.4	74.2	74.1	74.2
CIVILIAN LABOR FORCE PARTICIPATION RATE - FEMALES 55-64 YEARS												
1973.....	41.4	41.4	41.2	40.9	41.1	40.9	41.3	41.4	41.1	41.1	40.8	40.8
1974.....	40.9	40.9	41.2	41.3	41.0	41.2	41.2	40.8	40.5	40.0	39.6	40.4
1975.....	40.7	41.0	41.0	41.0	41.1	41.2	41.1	40.7	41.0	41.2	40.9	41.2
1976.....	41.1	41.6	41.0	40.9	40.3	40.7	41.0	41.3	41.1	41.2	41.3	41.3
1977.....	40.9	40.9	40.2	40.9	41.5	40.6	40.4	40.4	41.5	41.5	41.9	41.5
CIVILIAN LABOR FORCE PARTICIPATION RATE - BOTH SEXES 65 YEARS AND OVER												
1973.....	14.5	14.6	14.8	14.8	14.7	14.9	14.8	14.9	14.5	14.5	14.5	14.3
1974.....	14.2	14.3	14.0	14.1	14.0	14.0	14.0	14.2	14.1	14.3	13.7	14.0
1975.....	14.0	14.0	14.0	14.3	14.1	13.9	14.0	13.6	13.4	13.5	13.5	13.5
1976.....	13.6	13.5	13.4	13.0	13.1	13.0	13.0	13.0	13.1	13.0	13.2	13.3
1977.....	12.9	13.2	12.9	13.1	13.0	12.8	12.7	12.9	13.0	13.3	13.5	13.6
CIVILIAN LABOR FORCE PARTICIPATION RATE - MALES 65 YEARS AND OVER												
1973.....	22.6	22.7	23.5	22.8	22.9	23.1	23.0	22.9	22.3	22.7	22.6	22.3
1974.....	22.3	22.6	22.3	22.6	22.2	22.3	22.2	22.7	22.5	23.1	21.9	22.5
1975.....	22.3	22.5	22.4	22.6	22.2	21.6	22.0	21.4	21.2	20.9	20.9	20.8
1976.....	20.7	20.5	20.5	20.1	20.1	20.2	20.0	20.2	20.2	20.0	20.2	20.5
1977.....	20.1	20.0	19.5	19.2	20.0	19.7	19.9	19.9	19.8	20.6	20.9	21.1
CIVILIAN LABOR FORCE PARTICIPATION RATE - FEMALES 65 YEARS AND OVER												
1973.....	8.7	8.9	8.7	9.0	9.0	9.1	9.1	9.2	8.9	8.7	8.8	8.6
1974.....	8.4	8.4	8.2	8.2	8.2	8.2	8.2	8.3	8.2	8.1	7.9	8.0
1975.....	8.1	8.1	8.1	8.5	8.5	8.4	8.4	8.2	8.0	8.3	8.3	8.4
1976.....	8.6	8.6	8.4	8.1	8.2	8.0	8.1	8.1	8.2	8.2	8.3	8.3
1977.....	7.8	8.4	8.3	8.7	8.2	7.9	7.6	7.9	8.2	8.2	8.3	8.3
CIVILIAN LABOR FORCE PARTICIPATION RATE - WHITE WORKERS												
1973.....	60.2	60.5	60.8	60.8	60.7	61.1	60.9	60.7	60.9	61.0	61.3	61.2
1974.....	61.3	61.4	61.4	61.2	61.3	61.4	61.5	61.4	61.6	61.5	61.6	61.5
1975.....	61.6	61.2	61.4	61.5	61.8	61.5	61.6	61.6	61.5	61.5	61.3	61.4
1976.....	61.6	61.5	61.6	61.8	61.8	61.8	62.1	62.1	61.9	62.0	62.1	62.2
1977.....	62.0	62.3	62.4	62.4	62.5	62.7	62.4	62.6	62.6	62.8	63.1	62.9
CIVILIAN LABOR FORCE PARTICIPATION RATE - WHITE MALES 16-19 YEARS												
1973.....	59.4	61.1	62.3	61.9	60.5	62.3	62.1	61.1	62.8	63.4	63.4	63.2
1974.....	63.4	63.4	63.0	62.5	62.8	63.6	62.4	61.8	64.0	62.9	62.9	62.8
1975.....	63.0	62.2	62.3	61.6	62.1	61.6	62.4	62.0	62.3	61.4	61.1	61.4
1976.....	62.6	62.2	62.0	63.7	62.3	60.7	62.5	63.5	61.6	62.5	62.0	62.8
1977.....	62.4	63.2	63.7	64.3	64.5	64.3	63.1	64.0	63.7	65.2	65.6	65.1
CIVILIAN LABOR FORCE PARTICIPATION RATE - WHITE FEMALES 16-19 YEARS												
1973.....	47.4	49.0	49.5	50.3	50.3	50.9	48.6	49.6	50.5	51.5	51.8	52.0
1974.....	51.5	52.0	51.7	50.9	50.7	51.9	51.7	51.0	52.9	53.0	52.6	51.8
1975.....	52.6	50.9	51.4	50.9	52.2	51.1	51.7	52.1	51.5	51.4	51.1	52.0
1976.....	51.6	52.0	52.2	52.8	53.8	53.4	54.5	53.8	52.4	53.1	53.1	52.4
1977.....	52.9	54.3	54.6	54.6	54.0	56.0	54.6	56.9	54.1	54.7	55.3	54.0

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
CIVILIAN LABOR FORCE PARTICIPATION RATE - WHITE MALES 20 YEARS AND OVER												
1973.....	81.5	81.7	81.9	81.7	81.5	81.7	81.7	81.4	81.4	81.4	81.6	81.7
1974.....	81.9	81.9	81.6	81.3	81.5	81.4	81.2	81.3	81.4	81.5	81.4	81.2
1975.....	80.8	80.7	80.8	80.9	81.2	80.9	81.0	80.8	80.7	80.6	80.3	80.1
1976.....	80.2	80.1	80.2	80.3	80.3	80.4	80.5	80.4	80.5	80.4	80.5	80.3
1977.....	80.0	80.2	80.1	80.1	80.1	80.4	80.1	80.2	80.0	80.4	80.5	80.5
CIVILIAN LABOR FORCE PARTICIPATION RATE - WHITE FEMALES 20 YEARS AND OVER												
1973.....	42.7	43.0	43.1	43.3	43.4	43.7	43.6	43.5	43.7	43.7	44.0	43.8
1974.....	43.8	44.1	44.3	44.3	44.3	44.4	45.0	44.6	44.6	44.5	44.7	44.8
1975.....	45.2	44.8	45.1	45.3	45.4	45.2	45.4	45.4	45.3	45.6	45.4	45.6
1976.....	45.9	45.8	45.8	45.9	46.0	46.2	46.4	46.5	46.4	46.4	46.6	46.8
1977.....	46.7	46.9	47.2	47.2	47.5	47.4	47.3	47.3	47.7	47.6	48.0	47.8
CIVILIAN LABOR FORCE PARTICIPATION RATE - BLACK AND OTHER WORKERS												
1973.....	59.2	60.4	60.5	60.2	59.8	59.8	60.7	60.3	60.4	60.5	60.6	60.6
1974.....	61.0	60.7	60.3	59.6	59.9	60.0	59.8	59.7	60.0	60.1	59.6	59.5
1975.....	59.4	59.3	59.2	59.0	59.4	59.3	59.0	59.3	59.7	59.3	59.1	59.0
1976.....	59.1	59.4	59.5	59.7	59.3	59.1	59.2	59.5	59.1	59.2	59.9	59.9
1977.....	59.4	59.9	59.6	59.2	59.6	60.2	59.6	60.2	59.9	60.0	60.7	61.6
CIVILIAN LABOR FORCE PARTICIPATION RATE - BLACK AND OTHER MALES 16-19 YEARS												
1973.....	43.8	46.3	45.8	47.6	46.5	45.5	47.2	45.2	47.0	46.6	47.0	47.2
1974.....	50.4	47.1	49.1	45.0	44.4	46.9	47.5	46.2	48.1	49.1	47.2	45.3
1975.....	44.1	46.2	43.7	44.5	43.1	44.4	42.1	41.2	41.2	41.7	40.1	40.8
1976.....	42.2	42.8	43.0	43.0	42.5	38.3	40.7	41.6	41.5	42.7	42.4	44.0
1977.....	40.2	41.5	41.0	37.9	41.0	43.4	46.5	48.7	43.4	44.3	46.1	47.3
CIVILIAN LABOR FORCE PARTICIPATION RATE - BLACK AND OTHER FEMALES 16-19 YEARS												
1973.....	31.2	34.8	33.1	34.7	33.1	37.7	35.4	35.3	37.1	32.6	33.9	34.3
1974.....	34.7	33.7	33.5	32.4	34.9	35.3	35.2	33.1	35.1	35.3	32.6	33.7
1975.....	34.8	36.0	34.2	35.4	37.0	34.9	35.5	34.7	37.0	36.2	35.0	36.7
1976.....	35.2	34.4	35.4	35.1	34.3	31.3	32.9	35.2	31.6	31.7	33.7	31.4
1977.....	32.1	31.2	30.8	32.7	29.8	36.2	33.6	34.6	34.7	35.3	35.8	36.5
CIVILIAN LABOR FORCE PARTICIPATION RATE - BLACK AND OTHER MALES 20 YEARS AND OVER												
1973.....	76.8	78.3	78.7	78.5	78.2	78.2	79.0	78.2	78.1	79.1	78.8	78.8
1974.....	79.3	79.5	78.8	77.8	77.9	77.9	77.0	77.1	76.8	77.0	77.0	77.0
1975.....	76.9	76.4	76.2	75.9	76.5	76.0	76.6	77.0	77.2	76.2	76.2	75.7
1976.....	75.0	75.1	74.7	75.6	76.0	76.0	75.4	75.5	75.3	75.5	75.8	76.5
1977.....	76.1	76.5	76.4	75.3	75.9	76.4	75.2	75.3	73.8	75.2	75.2	76.5
CIVILIAN LABOR FORCE PARTICIPATION RATE - BLACK AND OTHER FEMALES 20 YEARS AND OVER												
1973.....	51.2	51.6	51.8	50.9	50.6	50.1	51.5	51.5	51.4	51.4	51.6	51.7
1974.....	51.6	51.4	50.9	51.0	51.2	50.9	51.3	51.3	51.9	51.7	51.1	51.1
1975.....	51.0	50.6	51.3	50.9	51.1	51.4	50.5	51.2	51.4	51.6	51.5	51.3
1976.....	52.1	52.7	53.0	52.9	51.9	52.4	52.5	52.5	52.4	52.2	53.2	52.9
1977.....	52.4	53.0	52.7	53.0	53.2	52.9	52.5	53.2	54.5	53.4	54.4	55.1
CIVILIAN LABOR FORCE PARTICIPATION RATE - BLACK WORKERS												
1973.....	58.8	60.9	61.0	60.3	59.8	59.7	60.6	60.2	60.2	60.4	60.4	60.3
1974.....	60.6	60.2	59.4	59.5	59.5	59.6	59.5	59.2	59.9	60.1	59.4	59.2
1975.....	59.1	58.5	58.9	58.3	58.9	58.9	58.4	58.8	59.0	58.6	58.5	58.6
1976.....	58.7	58.7	59.0	59.5	58.7	58.8	58.6	59.1	58.5	58.6	59.4	59.5
1977.....	58.9	59.4	59.4	58.8	59.3	60.0	59.2	60.0	59.7	59.9	60.3	61.5
CIVILIAN LABOR FORCE PARTICIPATION RATE - BLACK MALES 16-19 YEARS												
1973.....	40.5	55.7	53.2	47.8	47.3	44.2	46.1	43.9	47.4	47.7	46.4	46.4
1974.....	48.2	46.0	48.1	44.7	45.5	46.9	47.1	44.4	47.6	48.8	46.6	45.6
1975.....	43.7	44.5	43.6	44.5	43.4	45.7	42.3	38.2	40.4	41.1	39.6	40.5
1976.....	42.0	41.2	41.0	45.5	41.5	37.5	40.5	41.4	41.1	42.3	41.2	42.8
1977.....	38.4	39.4	39.3	36.9	40.8	44.0	46.6	47.0	43.5	45.2	47.1	47.6
CIVILIAN LABOR FORCE PARTICIPATION RATE - BLACK FEMALES 16-19 YEARS												
1973.....	31.1	34.1	33.3	34.7	32.5	37.8	35.5	34.3	36.9	32.9	34.1	33.9
1974.....	34.1	33.1	32.4	31.7	34.4	35.2	34.4	31.2	34.1	34.9	32.2	32.4
1975.....	33.9	34.3	33.8	34.3	35.0	32.5	32.9	33.2	35.6	34.7	33.7	36.3
1976.....	34.3	33.9	35.7	34.5	33.4	31.3	31.8	34.2	31.1	30.5	32.7	30.4
1977.....	31.7	30.5	29.6	31.7	29.5	36.3	32.0	33.5	34.6	33.9	33.7	35.4
CIVILIAN LABOR FORCE PARTICIPATION RATE - BLACK MALES 20 YEARS AND OVER												
1973.....	76.9	78.3	79.2	78.6	78.1	78.2	78.5	78.1	77.5	78.5	78.4	78.3
1974.....	79.1	78.8	78.5	77.8	77.8	77.5	76.4	76.7	76.8	77.3	77.1	76.7
1975.....	76.7	75.4	75.7	74.8	75.7	75.6	76.0	76.8	76.7	75.6	75.7	75.4
1976.....	74.7	74.5	74.1	74.9	75.0	75.7	74.9	75.2	74.9	75.0	75.8	76.3
1977.....	75.8	76.4	76.4	74.9	75.1	75.9	74.6	75.3	74.0	75.0	75.3	76.1
CIVILIAN LABOR FORCE PARTICIPATION RATE - BLACK FEMALES 20 YEARS AND OVER												
1973.....	51.0	51.8	51.7	51.4	50.9	50.4	52.1	52.1	51.7	51.8	52.0	51.9
1974.....	51.6	51.2	49.9	51.2	51.6	50.8	51.6	51.5	52.1	51.8	51.2	51.1
1975.....	50.9	50.6	51.4	50.7	51.1	51.4	50.5	51.0	51.0	51.0	51.0	51.1
1976.....	52.0	52.2	52.9	52.9	52.0	52.5	52.3	52.4	51.9	52.0	52.8	52.7
1977.....	52.3	53.0	52.9	53.0	53.6	53.0	52.7	53.6	54.2	53.7	54.1	55.6

HOUSEHOLD DATA SEASONALLY ADJUSTED

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
EMPLOYED - BOTH SEXES 25-54 YEARS												
IN THOUSANDS												
1973.....	50,735	51,089	51,235	51,395	51,500	51,685	51,918	51,818	52,045	52,255	52,393	52,449
1974.....	52,769	52,800	52,789	52,662	52,970	53,107	53,297	53,171	53,091	53,064	52,907	52,677
1975.....	52,269	52,104	52,120	52,151	52,161	52,377	52,603	52,900	52,890	53,134	53,126	53,201
1976.....	53,718	53,843	54,081	54,270	54,320	54,469	54,448	54,664	54,704	54,779	54,894	55,049
1977.....	55,278	55,523	55,770	55,963	56,168	56,329	56,403	56,465	56,770	56,831	57,255	57,530
EMPLOYED - MALES 25-54 YEARS												
1973.....	32,324	32,404	32,493	32,529	32,554	32,658	32,814	32,746	32,842	32,941	32,966	33,019
1974.....	33,260	33,197	33,159	32,946	33,184	33,191	33,141	33,171	33,131	33,081	33,062	32,846
1975.....	32,520	32,414	32,398	32,390	32,424	32,492	32,594	32,705	32,690	32,793	32,817	32,860
1976.....	33,043	33,120	33,251	33,318	33,360	33,309	33,333	33,396	33,452	33,521	33,487	33,537
1977.....	33,637	33,782	33,891	33,997	34,022	34,177	34,135	34,184	34,336	34,394	34,617	34,828
EMPLOYED - FEMALES 25-54 YEARS												
1973.....	18,411	18,685	18,742	18,866	18,946	19,027	19,104	19,072	19,203	19,314	19,427	19,430
1974.....	19,509	19,603	19,630	19,716	19,786	19,916	20,156	20,000	19,960	19,983	19,845	19,831
1975.....	19,749	19,690	19,722	19,761	19,737	19,885	20,009	20,195	20,200	20,341	20,309	20,341
1976.....	20,675	20,723	20,830	20,952	20,960	21,160	21,115	21,268	21,252	21,258	21,407	21,512
1977.....	21,641	21,741	21,879	21,966	22,146	22,152	22,268	22,281	22,434	22,437	22,638	22,702
EMPLOYED - AGRICULTURAL INDUSTRIES												
1973.....	3,437	3,408	3,457	3,387	3,351	3,490	3,520	3,409	3,327	3,405	3,577	3,642
1974.....	3,726	3,815	3,707	3,554	3,490	3,367	3,412	3,408	3,446	3,409	3,386	3,346
1975.....	3,361	3,340	3,332	3,278	3,504	3,350	3,428	3,405	3,493	3,374	3,305	3,244
1976.....	3,337	3,265	3,266	3,392	3,295	3,298	3,324	3,353	3,265	3,290	3,238	3,240
1977.....	3,121	3,164	3,179	3,256	3,335	3,330	3,206	3,224	3,199	3,243	3,357	3,323
EMPLOYED - AGRICULTURAL INDUSTRIES BOTH SEXES 16-19 YEARS												
1973.....	398	379	386	333	364	410	422	403	377	420	453	471
1974.....	468	489	457	476	456	437	407	435	471	458	472	425
1975.....	434	379	415	392	524	459	488	453	490	442	420	442
1976.....	452	450	445	443	422	403	417	454	421	424	399	408
1977.....	399	383	410	399	407	404	382	386	383	392	438	434
EMPLOYED - AGRICULTURAL INDUSTRIES MALES 16-19 YEARS												
1973.....	327	299	306	279	310	344	348	330	301	352	387	397
1974.....	394	416	387	401	386	366	341	368	381	381	387	367
1975.....	354	294	352	317	437	385	409	364	421	397	373	374
1976.....	375	390	378	367	354	334	343	377	355	356	338	347
1977.....	343	322	338	341	344	331	318	320	310	316	355	356
EMPLOYED - AGRICULTURAL INDUSTRIES FEMALES 16-19 YEARS												
1973.....	71	80	80	54	54	66	74	73	76	68	66	74
1974.....	74	73	70	75	70	71	66	67	90	77	85	58
1975.....	80	85	63	75	87	74	79	89	69	45	47	68
1976.....	77	60	67	76	68	69	74	77	66	68	61	61
1977.....	56	61	72	58	63	73	64	66	73	76	83	78
EMPLOYED - AGRICULTURAL INDUSTRIES BOTH SEXES 20 YEARS AND OVER												
1973.....	3,039	3,029	3,071	3,054	2,987	3,080	3,098	3,006	2,950	2,985	3,124	3,171
1974.....	3,258	3,326	3,250	3,078	3,034	2,930	3,005	2,973	2,975	2,951	2,914	2,921
1975.....	2,927	2,961	2,917	2,886	2,980	2,891	2,940	2,952	3,003	2,932	2,885	2,802
1976.....	2,885	2,815	2,821	2,949	2,873	2,895	2,907	2,899	2,844	2,866	2,839	2,832
1977.....	2,722	2,781	2,769	2,857	2,928	2,926	2,824	2,838	2,816	2,851	2,919	2,889
EMPLOYED - AGRICULTURAL INDUSTRIES MALES 20 YEARS AND OVER												
1973.....	2,533	2,477	2,513	2,498	2,466	2,508	2,490	2,468	2,448	2,464	2,560	2,579
1974.....	2,677	2,689	2,642	2,527	2,514	2,431	2,481	2,489	2,490	2,471	2,444	2,464
1975.....	2,440	2,473	2,448	2,422	2,441	2,392	2,418	2,423	2,468	2,413	2,398	2,322
1976.....	2,380	2,359	2,344	2,401	2,405	2,409	2,419	2,368	2,320	2,325	2,289	2,270
1977.....	2,238	2,257	2,247	2,280	2,356	2,362	2,295	2,327	2,320	2,326	2,330	2,346
EMPLOYED - AGRICULTURAL INDUSTRIES FEMALES 20 YEARS AND OVER												
1973.....	506	552	558	556	521	572	608	538	502	521	564	592
1974.....	581	637	608	551	520	499	524	484	485	480	470	457
1975.....	487	488	469	464	539	499	522	529	535	519	487	480
1976.....	505	456	477	548	468	486	488	531	524	541	550	562
1977.....	484	524	522	577	572	564	529	511	496	525	589	543
EMPLOYED - NONAGRICULTURAL INDUSTRIES												
1973.....	79,196	79,928	80,419	80,540	80,650	81,062	81,133	81,089	81,458	81,858	82,001	82,008
1974.....	82,083	82,172	82,336	82,285	82,546	82,769	82,885	82,705	82,708	82,674	82,326	81,889
1975.....	81,281	80,923	80,848	80,875	80,875	81,032	81,385	81,658	81,627	81,814	81,976	82,251
1976.....	82,956	83,287	83,562	83,825	84,232	84,134	84,477	84,453	84,512	84,554	85,017	85,206
1977.....	85,532	85,883	86,299	86,621	86,932	87,318	87,382	87,569	87,889	88,140	88,857	89,286
EMPLOYED - NONAGRICULTURAL INDUSTRIES BOTH SEXES 16-19 YEARS												
1973.....	6,443	6,616	6,808	6,784	6,746	6,994	6,803	6,832	6,949	7,015	7,000	7,006
1974.....	7,051	7,013	7,040	6,910	6,918	7,009	6,953	6,947	6,974	6,967	6,855	6,798
1975.....	6,719	6,668	6,600	6,561	6,537	6,488	6,519	6,537	6,601	6,590	6,643	6,651
1976.....	6,713	6,726	6,783	6,837	6,940	6,854	7,065	6,878	6,758	6,845	6,859	6,846
1977.....	6,875	6,996	7,029	7,105	7,106	7,315	7,318	7,457	7,127	7,336	7,394	7,478

HOUSEHOLD DATA SEASONALLY ADJUSTED

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
EMPLOYED - PERSONS AT WORK IN NONAGRICULTURAL INDUSTRIES												
IN THOUSANDS												
1973.....	73,695	75,135	75,468	76,074	75,998	76,144	76,565	76,501	76,691	77,053	77,057	77,387
1974.....	76,985	77,354	77,296	75,961	77,585	77,741	77,839	77,725	77,723	77,577	77,282	76,594
1975.....	76,477	75,982	75,779	76,602	75,879	76,268	75,158	76,409	76,672	76,862	77,012	77,318
1976.....	78,321	78,342	78,154	77,764	78,881	79,425	79,155	79,013	79,745	79,579	79,874	80,231
1977.....	79,766	80,846	81,161	81,188	81,666	81,714	82,479	82,642	82,783	82,788	83,347	83,662
EMPLOYED - NONAGRICULTURAL WORKERS ON FULL-TIME SCHEDULES												
1973.....	62,048	62,843	63,085	63,542	63,476	63,628	64,249	63,871	63,742	63,996	64,031	64,089
1974.....	64,070	64,180	64,267	63,584	64,445	64,624	64,506	64,502	64,406	64,143	63,554	62,775
1975.....	62,406	61,993	61,617	62,183	61,835	61,873	60,903	62,312	62,832	62,905	63,090	63,570
1976.....	64,224	64,372	64,356	63,968	64,772	64,897	65,105	64,751	65,031	65,086	65,379	65,715
1977.....	65,717	66,147	66,491	66,603	67,083	67,172	67,693	67,839	67,817	67,827	68,240	68,574
EMPLOYED - NONAGRICULTURAL WORKERS ON PART-TIME SCHEDULES FOR ECONOMIC REASONS												
1973.....	2,000	2,154	2,146	2,119	2,185	2,515	2,462	2,416	2,399	2,391	2,403	2,536
1974.....	2,455	2,632	2,437	2,338	2,628	2,543	2,577	2,710	2,887	2,939	3,188	3,305
1975.....	3,593	3,585	3,733	3,782	3,665	3,488	3,415	3,360	3,313	3,333	3,279	3,242
1976.....	3,292	3,204	3,176	3,224	3,275	3,159	3,191	3,213	3,369	3,421	3,478	3,392
1977.....	3,243	3,441	3,271	3,192	3,268	3,390	3,464	3,253	3,306	3,263	3,285	3,220
EMPLOYED - NONAGRICULTURAL WORKERS ON PART-TIME SCHEDULES FOR ECONOMIC REASONS - USUALLY WORK FULL TIME												
1973.....	869	969	941	973	1,018	1,112	1,199	1,226	1,167	1,129	1,159	1,184
1974.....	1,148	1,278	1,227	1,058	1,215	1,228	1,207	1,257	1,349	1,392	1,614	1,806
1975.....	1,894	1,909	1,856	1,831	1,686	1,573	1,571	1,490	1,433	1,454	1,406	1,336
1976.....	1,338	1,295	1,247	1,334	1,399	1,309	1,307	1,366	1,374	1,330	1,280	1,240
1977.....	1,106	1,342	1,228	1,188	1,270	1,327	1,446	1,220	1,244	1,237	1,255	1,247
EMPLOYED - NONAGRICULTURAL WORKERS ON PART-TIME SCHEDULES FOR ECONOMIC REASONS - USUALLY WORK PART TIME												
1973.....	1,131	1,185	1,205	1,146	1,167	1,403	1,263	1,190	1,232	1,262	1,244	1,352
1974.....	1,307	1,354	1,210	1,280	1,413	1,315	1,370	1,453	1,538	1,547	1,574	1,499
1975.....	1,699	1,676	1,877	1,951	1,979	1,915	1,844	1,870	1,880	1,879	1,873	1,906
1976.....	1,954	1,909	1,929	1,890	1,876	1,850	1,884	1,847	1,995	2,091	2,198	2,152
1977.....	2,137	2,099	2,043	2,004	1,998	2,063	2,018	2,033	2,062	2,026	2,030	1,973
EMPLOYED - NONAGRICULTURAL WORKERS ON PART-TIME SCHEDULES FOR NONECONOMIC REASONS - USUALLY WORK PART TIME												
1973.....	9,647	10,138	10,237	10,413	10,337	10,001	9,854	10,214	10,550	10,666	10,623	10,762
1974.....	10,460	10,542	10,592	10,039	10,512	10,574	10,756	10,513	10,430	10,495	10,540	10,514
1975.....	10,478	10,404	10,429	10,637	10,379	10,907	10,840	10,737	10,527	10,624	10,643	10,506
1976.....	10,805	10,766	10,622	10,572	10,834	11,369	10,859	11,049	11,345	11,072	11,017	11,124
1977.....	10,806	11,258	11,399	11,393	11,315	11,152	11,322	11,550	11,660	11,698	11,822	11,868
EMPLOYMENT-POPULATION RATIO - ALL CIVILIAN WORKERS												
1973.....	56.2	56.6	56.8	56.8	56.8	57.1	57.1	56.9	57.0	57.2	57.4	57.3
1974.....	57.3	57.4	57.3	57.1	57.2	57.2	57.2	57.0	56.9	56.8	56.5	56.1
1975.....	55.6	55.3	55.1	55.1	55.1	55.2	55.2	55.3	55.3	55.2	55.2	55.3
1976.....	55.7	55.8	55.9	56.1	56.2	56.1	56.2	56.2	56.1	56.0	56.2	56.3
1977.....	56.3	56.5	56.7	56.9	57.0	57.2	57.1	57.1	57.2	57.4	57.8	58.0
EMPLOYMENT-POPULATION RATIO - MALES 20 YEARS AND OVER												
1973.....	75.9	76.1	76.4	76.2	76.1	76.3	76.5	76.2	76.2	76.4	76.5	76.5
1974.....	76.7	76.5	76.3	75.9	76.1	75.9	75.7	75.6	75.5	75.4	75.1	74.4
1975.....	73.6	73.3	72.9	72.8	72.8	72.7	72.8	72.9	72.6	72.6	72.6	72.6
1976.....	73.0	73.1	73.1	73.4	73.4	73.1	73.2	73.2	73.2	73.1	73.2	73.1
1977.....	73.2	73.3	73.5	73.5	73.5	73.9	73.6	73.6	73.6	73.9	74.3	74.5
EMPLOYMENT-POPULATION RATIO - FEMALES 20 YEARS AND OVER												
1973.....	41.3	41.8	41.9	42.1	42.2	42.2	42.3	42.2	42.3	42.5	42.7	42.5
1974.....	42.4	42.7	42.8	42.8	42.8	42.9	43.3	42.9	42.8	42.7	42.4	42.3
1975.....	42.1	41.9	42.0	42.0	42.0	42.2	42.3	42.4	42.4	42.5	42.5	42.5
1976.....	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.6	43.5	43.4	43.8	44.0
1977.....	44.0	44.1	44.3	44.6	44.9	44.6	44.6	44.6	45.2	44.9	45.4	45.4
EMPLOYMENT-POPULATION RATIO - BOTH SEXES 16-19 YEARS												
1973.....	42.8	43.7	44.8	44.3	44.2	45.9	44.7	44.7	45.2	45.8	45.9	46.0
1974.....	46.1	45.9	45.8	45.1	44.9	45.3	44.7	44.8	45.1	45.0	44.3	43.7
1975.....	43.2	42.5	42.3	41.9	42.5	41.8	42.1	41.9	42.5	42.1	42.2	42.4
1976.....	42.8	42.8	43.1	43.4	43.9	43.2	44.5	43.6	42.7	43.2	43.2	43.2
1977.....	43.3	43.9	44.2	44.6	44.7	45.9	45.8	46.6	44.6	45.9	46.6	47.1
EMPLOYMENT-POPULATION RATIO - WHITE WORKERS												
1973.....	56.6	56.9	57.2	57.2	57.2	57.6	57.5	57.3	57.4	57.6	57.8	57.7
1974.....	57.7	57.8	57.8	57.6	57.6	57.7	57.7	57.5	57.4	57.4	57.1	56.8
1975.....	56.2	55.9	55.9	55.8	55.8	55.8	55.9	56.0	56.0	56.0	55.9	56.0
1976.....	56.4	56.6	56.6	56.8	56.9	56.9	57.0	56.9	56.8	56.9	56.9	57.1
1977.....	57.1	57.3	57.5	57.7	57.9	58.0	57.9	58.0	58.1	58.3	58.7	58.7
EMPLOYMENT-POPULATION RATIO - BLACK AND OTHER WORKERS												
1973.....	53.0	54.0	54.1	53.7	53.4	53.4	54.0	53.9	53.8	54.3	54.1	54.4
1974.....	54.4	54.1	53.7	53.4	53.4	53.4	52.9	53.0	53.1	52.5	51.6	51.1
1975.....	50.6	50.4	49.9	49.6	49.9	49.9	50.0	49.9	50.0	50.0	50.0	50.0
1976.....	50.3	49.4	51.0	51.0	51.0	50.2	50.5	50.5	50.5	50.3	50.9	50.8
1977.....	50.9	51.0	50.9	50.9	50.8	51.3	50.4	50.6	51.0	50.8	51.3	52.7

HOUSEHOLD DATA SEASONALLY ADJUSTED

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEEMPLOYED - ALL CIVILIAN WORKERS												
IN THOUSANDS												
1973.....	4,265	4,406	4,335	4,399	4,300	4,278	4,239	4,238	4,292	4,074	4,321	4,425
1974.....	4,555	4,666	4,560	4,537	4,678	4,807	4,976	4,934	5,371	5,444	6,051	6,574
1975.....	7,366	7,431	7,873	8,081	8,442	8,051	8,020	7,814	7,859	7,814	7,685	7,687
1976.....	7,359	7,205	7,108	7,174	7,041	7,117	7,375	7,402	7,312	7,353	7,486	7,490
1977.....	7,066	7,273	7,145	6,869	6,894	6,904	6,719	6,821	6,668	6,688	6,663	6,310
UNEEMPLOYED - MALES												
1973.....	2,234	2,317	2,298	2,325	2,308	2,196	2,169	2,174	2,176	2,098	2,220	2,275
1974.....	2,388	2,482	2,397	2,439	2,404	2,500	2,535	2,606	2,785	2,887	3,185	3,566
1975.....	4,016	4,133	4,389	4,556	4,689	4,576	4,570	4,371	4,486	4,370	4,336	4,232
1976.....	4,073	3,923	3,898	3,933	3,854	3,902	3,977	3,881	3,949	3,972	4,125	4,113
1977.....	3,839	3,978	3,812	3,592	3,638	3,543	3,498	3,533	3,354	3,469	3,352	3,213
UNEEMPLOYED - FEMALES												
1973.....	2,031	2,089	2,037	2,074	1,992	2,082	2,070	2,064	2,116	1,976	2,101	2,150
1974.....	2,167	2,184	2,163	2,098	2,274	2,307	2,441	2,328	2,586	2,557	2,866	3,008
1975.....	3,350	3,298	3,484	3,525	3,753	3,475	3,450	3,443	3,373	3,444	3,349	3,455
1976.....	3,286	3,282	3,210	3,241	3,187	3,215	3,398	3,521	3,363	3,381	3,361	3,377
1977.....	3,227	3,295	3,333	3,277	3,256	3,361	3,221	3,288	3,314	3,219	3,311	3,097
UNEEMPLOYED - BOTH SEXES 16-19 YEARS												
1973.....	1,077	1,258	1,194	1,301	1,251	1,164	1,196	1,178	1,266	1,251	1,303	1,286
1974.....	1,274	1,313	1,310	1,234	1,347	1,413	1,484	1,294	1,539	1,538	1,576	1,615
1975.....	1,715	1,704	1,753	1,736	1,818	1,778	1,823	1,820	1,736	1,742	1,654	1,764
1976.....	1,706	1,705	1,691	1,775	1,700	1,579	1,662	1,783	1,668	1,710	1,715	1,730
1977.....	1,640	1,688	1,711	1,667	1,664	1,693	1,613	1,640	1,677	1,620	1,623	1,467
UNEEMPLOYED - MALES 16-19 YEARS												
1973.....	573	639	631	683	665	599	635	637	666	670	695	680
1974.....	667	697	695	681	705	743	746	702	846	806	844	874
1975.....	926	946	951	987	964	1,019	1,018	992	939	937	885	924
1976.....	946	924	922	1,009	948	828	901	910	918	952	943	939
1977.....	829	905	914	864	870	882	851	875	876	848	840	779
UNEEMPLOYED - FEMALES 16-19 YEARS												
1973.....	504	619	563	618	586	565	561	541	600	581	608	606
1974.....	607	616	615	553	642	670	738	592	693	732	732	741
1975.....	789	758	802	749	854	759	805	828	797	805	769	840
1976.....	760	781	769	766	752	751	761	873	750	758	772	791
1977.....	811	783	797	803	794	811	762	765	801	772	783	688
UNEEMPLOYED - BOTH SEXES 20 YEARS AND OVER												
1973.....	3,188	3,148	3,141	3,098	3,049	3,114	3,043	3,060	3,026	2,823	3,018	3,139
1974.....	3,281	3,353	3,250	3,303	3,331	3,394	3,492	3,640	3,832	3,906	4,475	4,959
1975.....	5,651	5,727	6,120	6,345	6,624	6,273	6,197	5,994	6,123	6,072	6,031	5,923
1976.....	5,653	5,500	5,417	5,399	5,341	5,538	5,713	5,619	5,644	5,643	5,771	5,760
1977.....	5,426	5,585	5,434	5,202	5,230	5,211	5,106	5,181	4,991	5,068	5,040	4,843
UNEEMPLOYED - MALES 20 YEARS AND OVER												
1973.....	1,661	1,678	1,667	1,642	1,643	1,597	1,534	1,537	1,510	1,428	1,525	1,595
1974.....	1,721	1,785	1,702	1,758	1,699	1,757	1,789	1,904	1,939	2,081	2,341	2,692
1975.....	3,090	3,187	3,438	3,569	3,725	3,557	3,552	3,379	3,547	3,433	3,451	3,308
1976.....	3,127	2,999	2,976	2,924	2,906	3,073	3,076	2,971	3,031	3,020	3,182	3,174
1977.....	3,010	3,073	2,898	2,728	2,768	2,661	2,647	2,658	2,478	2,621	2,512	2,434
UNEEMPLOYED - FEMALES 20 YEARS AND OVER												
1973.....	1,527	1,470	1,474	1,456	1,406	1,517	1,509	1,523	1,516	1,395	1,493	1,544
1974.....	1,560	1,568	1,548	1,545	1,632	1,637	1,703	1,736	1,893	1,825	2,134	2,267
1975.....	2,561	2,540	2,682	2,776	2,899	2,716	2,645	2,615	2,576	2,639	2,580	2,615
1976.....	2,526	2,501	2,441	2,475	2,435	2,464	2,637	2,648	2,613	2,623	2,589	2,586
1977.....	2,416	2,512	2,536	2,474	2,462	2,550	2,459	2,523	2,513	2,447	2,528	2,409
UNEEMPLOYED - BOTH SEXES 20-24 YEARS												
1973.....	989	988	978	1,005	979	1,002	1,024	989	1,023	889	937	986
1974.....	1,058	1,088	1,022	1,036	1,109	1,117	1,163	1,259	1,270	1,224	1,395	1,547
1975.....	1,638	1,748	1,851	1,945	2,000	1,765	1,889	1,825	1,901	1,845	1,831	1,766
1976.....	1,731	1,628	1,643	1,682	1,597	1,632	1,617	1,664	1,630	1,741	1,749	1,739
1977.....	1,625	1,701	1,632	1,574	1,560	1,547	1,545	1,620	1,553	1,515	1,519	1,499
UNEEMPLOYED - MALES 20-24 YEARS												
1973.....	526	534	513	536	523	530	502	510	507	468	492	507
1974.....	560	592	546	548	583	588	594	673	667	688	774	832
1975.....	921	982	1,064	1,148	1,144	1,034	1,115	1,078	1,147	1,083	1,046	989
1976.....	962	900	906	890	883	910	922	903	890	969	962	992
1977.....	895	945	881	843	836	810	834	902	819	788	777	775
UNEEMPLOYED - FEMALES 20-24 YEARS												
1973.....	463	454	465	469	456	472	522	479	516	421	445	479
1974.....	498	496	476	488	526	529	569	586	603	536	621	715
1975.....	717	766	787	797	856	731	774	747	754	762	785	777
1976.....	769	728	737	792	714	722	695	761	740	772	787	747
1977.....	730	756	751	731	724	737	711	718	734	727	742	724

HOUSEHOLD DATA SEASONALLY ADJUSTED

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYED - BOTH SEXES 25 YEARS AND OVER												
IN THOUSANDS												
1973.....	2,181	2,142	2,141	2,101	2,048	2,104	2,038	2,081	2,040	1,986	2,074	2,134
1974.....	2,205	2,240	2,203	2,275	2,196	2,260	2,363	2,399	2,620	2,763	3,057	3,376
1975.....	3,969	3,911	4,205	4,413	4,572	4,532	4,400	4,232	4,337	4,352	4,167	4,110
1976.....	3,882	3,799	3,720	3,737	3,702	3,905	4,193	4,024	4,112	4,011	3,988	3,981
1977.....	3,763	3,811	3,748	3,646	3,628	3,655	3,643	3,621	3,502	3,641	3,493	3,319
UNEMPLOYED - MALES 25 YEARS AND OVER												
1973.....	1,120	1,118	1,132	1,110	1,108	1,056	1,042	1,052	1,034	1,027	1,024	1,069
1974.....	1,140	1,163	1,131	1,212	1,105	1,156	1,212	1,269	1,322	1,489	1,548	1,824
1975.....	2,117	2,136	2,314	2,427	2,555	2,529	2,481	2,387	2,509	2,494	2,375	2,276
1976.....	2,111	2,030	2,017	2,036	2,005	2,165	2,196	2,155	2,238	2,169	2,192	2,150
1977.....	2,063	2,058	1,967	1,887	1,916	1,846	1,849	1,829	1,724	1,929	1,714	1,640
UNEMPLOYED - FEMALES 25 YEARS AND OVER												
1973.....	1,061	1,024	1,009	991	940	1,048	996	1,029	1,006	959	1,050	1,065
1974.....	1,065	1,077	1,072	1,063	1,091	1,104	1,151	1,130	1,298	1,274	1,509	1,552
1975.....	1,852	1,775	1,891	1,986	2,017	2,003	1,919	1,845	1,828	1,858	1,792	1,834
1976.....	1,771	1,769	1,703	1,701	1,697	1,740	1,997	1,869	1,874	1,842	1,796	1,831
1977.....	1,700	1,753	1,781	1,759	1,712	1,809	1,794	1,792	1,778	1,712	1,779	1,679
UNEMPLOYED - BOTH SEXES 25-54 YEARS												
1973.....	1,772	1,762	1,756	1,751	1,705	1,745	1,639	1,709	1,632	1,604	1,682	1,787
1974.....	1,805	1,851	1,823	1,924	1,821	1,873	1,950	1,964	2,155	2,325	2,605	2,860
1975.....	3,346	3,289	3,558	3,716	3,883	3,829	3,671	3,602	3,643	3,668	3,500	3,431
1976.....	3,205	3,167	3,065	3,088	3,107	3,229	3,463	3,355	3,407	3,377	3,363	3,414
1977.....	3,135	3,159	3,167	3,075	3,053	3,099	3,032	3,074	2,887	3,037	2,909	2,772
UNEMPLOYED - MALES 25-54 YEARS												
1973.....	889	908	919	896	886	826	796	829	780	762	780	859
1974.....	900	907	917	1,004	903	940	977	994	1,058	1,225	1,301	1,520
1975.....	1,748	1,765	1,921	1,996	2,146	2,122	2,069	2,009	2,072	2,070	1,976	1,867
1976.....	1,719	1,653	1,604	1,640	1,627	1,741	1,822	1,756	1,814	1,783	1,830	1,816
1977.....	1,680	1,665	1,604	1,550	1,578	1,541	1,519	1,518	1,360	1,556	1,392	1,315
UNEMPLOYED - FEMALES 25-54 YEARS												
1973.....	883	854	837	855	819	919	843	880	852	842	902	928
1974.....	905	944	906	920	918	933	973	970	1,097	1,100	1,304	1,340
1975.....	1,598	1,524	1,637	1,720	1,737	1,707	1,602	1,593	1,571	1,598	1,524	1,564
1976.....	1,486	1,514	1,461	1,448	1,440	1,488	1,641	1,599	1,593	1,594	1,533	1,598
1977.....	1,455	1,494	1,563	1,525	1,475	1,558	1,513	1,556	1,527	1,481	1,517	1,457
UNEMPLOYED - MALES 25-34 YEARS												
1973.....	422	429	440	425	457	410	420	444	428	412	379	416
1974.....	445	442	461	541	465	484	491	506	497	637	656	786
1975.....	846	895	959	1,000	1,019	1,052	1,015	947	1,011	974	973	923
1976.....	866	860	813	838	855	900	925	904	919	927	954	921
1977.....	878	873	846	859	840	827	865	854	787	893	778	726
UNEMPLOYED - FEMALES 25-34 YEARS												
1973.....	414	387	388	396	421	474	406	437	390	394	448	448
1974.....	437	455	436	428	404	413	406	468	517	535	616	611
1975.....	738	704	774	809	860	838	800	771	759	769	731	750
1976.....	727	753	729	707	752	769	805	825	817	813	776	808
1977.....	722	777	782	816	733	770	739	753	741	756	748	750
UNEMPLOYED - MALES 35-44 YEARS												
1973.....	221	223	234	221	210	206	186	185	185	168	191	238
1974.....	228	229	209	229	224	240	247	255	298	313	336	394
1975.....	448	455	513	530	582	525	515	513	497	499	509	470
1976.....	430	419	391	397	389	429	467	455	479	446	432	421
1977.....	390	399	409	347	400	384	373	360	322	359	346	295
UNEMPLOYED - FEMALES 35-44 YEARS												
1973.....	265	243	242	225	234	234	231	239	258	231	246	234
1974.....	247	261	261	276	296	290	283	295	302	297	358	381
1975.....	476	440	448	492	439	451	387	437	439	458	433	441
1976.....	418	410	406	416	401	406	429	419	424	423	413	448
1977.....	402	401	402	374	408	426	432	436	434	400	433	412
UNEMPLOYED - MALES 45-54 YEARS												
1973.....	246	256	245	250	219	210	190	200	167	182	210	205
1974.....	227	236	247	234	214	216	239	233	263	275	309	340
1975.....	454	415	449	466	545	545	539	549	564	597	494	474
1976.....	423	374	400	405	383	412	430	397	416	410	444	474
1977.....	412	393	349	344	338	330	281	304	251	304	268	294
UNEMPLOYED - FEMALES 45-54 YEARS												
1973.....	204	224	207	234	164	211	206	204	204	217	208	246
1974.....	221	228	209	216	218	230	219	207	278	268	330	348
1975.....	384	380	415	419	438	418	415	385	373	371	360	373
1976.....	341	351	326	325	327	313	407	355	352	358	344	342
1977.....	331	316	379	335	334	362	342	367	352	325	336	295

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYED - BOTH SEXES 55-64 YEARS												
IN THOUSANDS												
1973.....	310	310	297	280	272	258	289	284	279	299	293	275
1974.....	292	301	282	273	286	295	305	337	334	334	344	434
1975.....	473	493	505	529	522	529	532	515	517	551	522	518
1976.....	486	491	499	512	469	520	523	543	537	511	505	477
1977.....	453	502	449	438	437	407	412	417	443	466	453	428
UNEMPLOYED - MALES 55-64 YEARS												
1973.....	173	160	164	168	178	171	175	162	169	186	178	160
1974.....	178	199	155	155	151	165	182	204	187	180	182	241
1975.....	272	283	294	307	313	297	308	306	308	308	308	308
1976.....	275	284	304	301	291	323	292	314	311	291	290	266
1977.....	257	291	261	248	248	222	229	224	242	274	238	240
UNEMPLOYED - FEMALES 55-64 YEARS												
1973.....	137	150	133	112	94	87	114	122	110	113	115	115
1974.....	114	102	127	118	135	130	123	133	147	154	162	193
1975.....	201	210	211	222	209	232	224	209	209	243	214	210
1976.....	211	207	195	211	178	197	231	229	226	220	215	211
1977.....	196	211	188	190	189	185	183	193	201	192	215	188
UNEMPLOYED - BOTH SEXES 65 YEARS AND OVER												
1973.....	91	80	72	74	81	109	107	104	98	79	87	89
1974.....	97	101	92	90	93	86	92	117	103	111	104	110
1975.....	124	141	142	174	189	160	160	153	135	151	163	203
1976.....	165	148	165	134	141	144	166	146	136	146	147	131
1977.....	146	155	152	142	149	131	145	138	145	149	152	157
UNEMPLOYED - MALES 65 YEARS AND OVER												
1973.....	55	48	40	46	52	66	78	67	69	62	59	56
1974.....	61	61	54	58	56	53	58	83	62	72	67	76
1975.....	83	93	96	120	110	109	109	99	98	104	108	118
1976.....	102	99	109	86	95	97	85	98	90	87	95	84
1977.....	107	107	107	87	95	74	96	88	100	95	99	99
UNEMPLOYED - FEMALES 65 YEARS AND OVER												
1973.....	36	32	32	28	29	43	29	37	29	17	28	33
1974.....	36	40	38	32	37	33	34	34	41	39	37	34
1975.....	41	48	46	54	79	51	51	54	37	47	55	85
1976.....	63	49	56	48	46	47	81	48	46	49	52	47
1977.....	39	48	45	55	54	57	49	50	45	54	53	58
UNEMPLOYED - MALES 16-21 YEARS: MAJOR ACTIVITY SCHOOL												
1973.....	229	235	277	325	285	244	300	308	265	286	279	277
1974.....	280	284	288	229	309	328	338	337	350	324	366	357
1975.....	383	391	364	408	381	379	348	341	366	365	355	378
1976.....	432	377	403	368	398	389	357	364	339	394	441	400
1977.....	341	383	445	339	354	335	370	380	399	390	371	332
UNEMPLOYED - MALES 16-21 YEARS: MAJOR ACTIVITY OTHER												
1973.....	571	597	579	589	608	536	572	558	615	607	663	639
1974.....	642	644	677	696	694	716	698	719	795	811	829	867
1975.....	957	959	1,058	1,038	1,103	1,141	1,214	1,116	1,051	1,029	996	970
1976.....	998	972	954	1,001	907	858	994	971	965	966	961	982
1977.....	909	953	874	876	895	930	905	912	833	822	830	802
UNEMPLOYED - FEMALES 16-21 YEARS: MAJOR ACTIVITY SCHOOL												
1973.....	166	236	210	246	221	204	235	234	223	215	210	246
1974.....	223	258	217	163	228	251	263	264	261	283	270	291
1975.....	326	301	337	289	328	301	284	289	292	320	298	304
1976.....	294	282	287	292	287	311	301	286	322	256	354	319
1977.....	323	337	339	338	333	239	278	301	360	293	321	283
UNEMPLOYED - FEMALES 16-21 YEARS: MAJOR ACTIVITY OTHER												
1973.....	556	585	545	580	561	586	529	539	594	553	623	602
1974.....	638	637	649	645	692	646	738	644	724	718	723	754
1975.....	779	815	856	808	933	809	881	927	850	841	829	900
1976.....	800	791	777	827	765	787	761	942	734	810	776	807
1977.....	829	787	798	790	770	911	806	800	778	795	805	749
UNEMPLOYED - WHITE WORKERS												
1973.....	3,446	3,488	3,426	3,480	3,396	3,377	3,278	3,354	3,388	3,282	3,416	3,518
1974.....	3,630	3,680	3,593	3,633	3,721	3,864	3,959	3,996	4,382	4,398	4,860	5,233
1975.....	6,015	5,989	6,361	6,572	6,900	6,597	6,612	6,386	6,389	6,435	6,248	6,188
1976.....	5,957	5,689	5,686	5,732	5,649	5,689	5,951	6,011	5,967	5,990	6,039	5,954
1977.....	5,696	5,762	5,672	5,476	5,387	5,442	5,204	5,266	5,204	5,198	5,111	4,802
UNEMPLOYED - WHITE WORKERS 16-19 YEARS												
1973.....	848	964	938	1,019	976	884	894	904	953	997	1,036	1,007
1974.....	1,010	1,024	999	973	1,048	1,110	1,111	1,007	1,232	1,196	1,234	1,251
1975.....	1,371	1,342	1,390	1,384	1,458	1,452	1,476	1,480	1,391	1,394	1,342	1,405
1976.....	1,400	1,365	1,353	1,405	1,331	1,244	1,326	1,410	1,316	1,361	1,384	1,384
1977.....	1,347	1,352	1,369	1,346	1,318	1,318	1,179	1,239	1,302	1,246	1,237	1,051

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYED - WHITE WORKERS 20 YEARS AND OVER												
IN THOUSANDS												
1973.....	2,598	2,524	2,488	2,461	2,420	2,493	2,384	2,450	2,435	2,285	2,380	2,511
1974.....	2,620	2,656	2,594	2,660	2,673	2,754	2,848	2,989	3,150	3,202	3,626	3,982
1975.....	4,644	4,647	4,971	5,188	5,442	5,145	5,136	4,906	4,998	5,041	4,906	4,783
1976.....	4,557	4,324	4,333	4,327	4,318	4,445	4,625	4,601	4,651	4,629	4,655	4,570
1977.....	4,349	4,410	4,303	4,130	4,069	4,124	4,025	4,027	3,902	3,952	3,874	3,751
UNEMPLOYED - WHITE MALES												
1973.....	1,856	1,873	1,863	1,862	1,847	1,782	1,712	1,769	1,790	1,729	1,793	1,848
1974.....	1,931	1,948	1,862	1,953	1,952	1,999	2,066	2,134	2,290	2,389	2,573	2,845
1975.....	3,264	3,322	3,559	3,699	3,880	3,784	3,804	3,644	3,761	3,675	3,559	3,403
1976.....	3,304	3,099	3,139	3,165	3,149	3,151	3,272	3,229	3,316	3,291	3,352	3,278
1977.....	3,100	3,170	3,042	2,921	2,898	2,833	2,714	2,737	2,664	2,715	2,602	2,483
UNEMPLOYED - WHITE MALES 16-19 YEARS												
1973.....	464	497	505	528	518	471	489	509	529	540	555	535
1974.....	532	539	515	527	569	572	571	537	659	627	658	679
1975.....	746	767	769	792	784	837	834	815	776	759	743	762
1976.....	803	743	759	812	758	652	735	732	720	759	772	749
1977.....	688	714	721	693	677	700	604	659	689	657	637	568
UNEMPLOYED - WHITE MALES 20 YEARS AND OVER												
1973.....	1,392	1,376	1,358	1,334	1,329	1,311	1,223	1,260	1,261	1,189	1,238	1,313
1974.....	1,399	1,409	1,347	1,426	1,383	1,427	1,495	1,597	1,631	1,762	1,915	2,166
1975.....	2,518	2,555	2,790	2,907	3,096	2,947	2,970	2,829	2,985	2,916	2,816	2,641
1976.....	2,501	2,356	2,380	2,353	2,391	2,499	2,537	2,497	2,596	2,532	2,580	2,529
1977.....	2,412	2,456	2,321	2,228	2,221	2,133	2,110	2,078	1,975	2,058	1,965	1,915
UNEMPLOYED - WHITE FEMALES												
1973.....	1,590	1,615	1,563	1,618	1,549	1,595	1,566	1,585	1,598	1,553	1,623	1,670
1974.....	1,699	1,732	1,731	1,680	1,769	1,865	1,893	1,862	2,092	2,009	2,287	2,388
1975.....	2,751	2,667	2,802	2,873	3,020	2,813	2,808	2,742	2,628	2,760	2,689	2,785
1976.....	2,653	2,590	2,547	2,567	2,500	2,538	2,679	2,782	2,651	2,699	2,687	2,676
1977.....	2,596	2,592	2,630	2,555	2,489	2,609	2,490	2,529	2,540	2,483	2,509	2,319
UNEMPLOYED - WHITE FEMALES 16-19 YEARS												
1973.....	384	467	433	491	458	413	405	395	424	457	481	472
1974.....	478	485	484	446	479	538	540	470	573	569	576	572
1975.....	625	575	621	592	674	615	642	665	615	635	599	643
1976.....	597	622	594	593	573	592	591	678	596	602	612	635
1977.....	659	638	648	653	641	618	575	580	613	589	600	483
UNEMPLOYED - WHITE FEMALES 20 YEARS AND OVER												
1973.....	1,206	1,148	1,130	1,127	1,091	1,182	1,161	1,190	1,174	1,096	1,142	1,198
1974.....	1,221	1,247	1,247	1,234	1,290	1,327	1,353	1,392	1,519	1,440	1,711	1,816
1975.....	2,126	2,092	2,181	2,281	2,346	2,198	2,166	2,077	2,013	2,125	2,090	2,142
1976.....	2,056	1,968	1,953	1,974	1,927	1,946	2,088	2,104	2,055	2,097	2,075	2,041
1977.....	1,937	1,954	1,982	1,902	1,848	1,991	1,915	1,949	1,927	1,894	1,909	1,836
UNEMPLOYED - BLACK AND OTHER WORKERS												
1973.....	833	877	886	911	895	899	958	898	940	855	908	871
1974.....	939	952	942	889	936	951	1,022	968	1,027	1,136	1,203	1,288
1975.....	1,358	1,378	1,456	1,475	1,497	1,475	1,425	1,502	1,553	1,499	1,461	1,452
1976.....	1,419	1,468	1,375	1,413	1,339	1,454	1,417	1,466	1,397	1,451	1,480	1,500
1977.....	1,393	1,460	1,431	1,361	1,443	1,491	1,495	1,623	1,490	1,556	1,585	1,490
UNEMPLOYED - BLACK AND OTHER WORKERS 16-19 YEARS												
1973.....	242	280	254	292	268	286	294	269	320	249	271	273
1974.....	283	280	310	265	288	312	361	285	308	339	351	350
1975.....	369	355	366	356	351	340	328	341	341	346	319	344
1976.....	334	338	342	369	358	353	310	377	343	350	342	328
1977.....	323	336	345	314	337	396	406	408	364	377	399	398
UNEMPLOYED - BLACK AND OTHER WORKERS 20 YEARS AND OVER												
1973.....	591	597	632	619	627	613	664	629	620	606	637	598
1974.....	656	672	632	624	648	639	661	683	719	797	852	938
1975.....	989	1,023	1,090	1,119	1,146	1,135	1,097	1,161	1,212	1,153	1,142	1,108
1976.....	1,085	1,130	1,033	1,044	981	1,101	1,107	1,089	1,054	1,101	1,138	1,172
1977.....	1,070	1,124	1,086	1,047	1,106	1,095	1,089	1,215	1,126	1,179	1,186	1,092
UNEMPLOYED - BLACK AND OTHER MALES												
1973.....	375	402	416	449	451	413	477	422	428	423	433	394
1974.....	451	495	513	461	443	504	492	507	549	574	624	671
1975.....	729	736	775	811	801	803	800	808	835	803	797	784
1976.....	747	756	711	722	700	762	719	734	718	762	795	807
1977.....	720	735	724	623	740	719	786	867	749	816	770	719
UNEMPLOYED - BLACK AND OTHER MALES 16-19 YEARS												
1973.....	118	132	126	151	139	132	151	124	142	126	144	145
1974.....	148	152	182	144	127	175	173	163	187	177	194	191
1975.....	199	174	186	186	174	188	172	180	160	177	149	159
1976.....	166	179	167	185	184	181	146	185	192	194	180	186
1977.....	166	191	197	157	190	187	225	223	181	192	214	207

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYED - BLACK AND OTHER MALES 20 YEARS AND OVER												
IN THOUSANDS												
1973.....	257	270	290	298	312	281	326	298	286	297	289	249
1974.....	303	343	331	317	316	329	319	344	362	397	430	480
1975.....	530	562	589	625	627	615	628	628	675	626	648	625
1976.....	581	577	544	537	516	581	573	549	526	568	615	621
1977.....	554	544	527	466	550	532	561	644	568	624	556	512
UNEMPLOYED - BLACK AND OTHER FEMALES												
1973.....	458	475	470	462	444	486	481	476	512	432	475	477
1974.....	488	457	429	428	493	447	530	461	478	562	579	617
1975.....	629	642	681	664	696	672	625	694	718	696	664	668
1976.....	672	712	664	691	639	692	698	732	679	689	685	693
1977.....	673	725	707	738	703	772	709	756	741	740	815	771
UNEMPLOYED - BLACK AND OTHER FEMALES 16-19 YEARS												
1973.....	124	148	128	141	129	154	143	145	178	123	127	128
1974.....	135	128	128	121	161	137	188	122	121	162	157	159
1975.....	170	181	180	170	177	152	156	161	181	169	170	185
1976.....	168	159	175	184	174	172	164	192	151	156	162	142
1977.....	157	145	148	157	147	209	181	185	183	185	185	191
UNEMPLOYED - BLACK AND OTHER FEMALES 20 YEARS AND OVER												
1973.....	334	327	342	321	315	332	338	331	334	309	348	349
1974.....	353	329	301	307	332	310	342	339	357	400	422	458
1975.....	459	461	501	494	519	520	469	533	537	527	494	483
1976.....	504	553	489	507	465	520	534	540	528	533	523	551
1977.....	516	580	559	581	556	563	528	571	558	555	630	580
UNEMPLOYED - BLACK WORKERS												
1973.....	761	923	900	867	846	856	885	820	869	799	832	803
1974.....	847	844	849	839	878	902	940	890	984	1,057	1,126	1,187
1975.....	1,263	1,250	1,344	1,368	1,383	1,364	1,293	1,391	1,417	1,373	1,338	1,345
1976.....	1,300	1,293	1,237	1,284	1,232	1,324	1,318	1,350	1,268	1,319	1,330	1,353
1977.....	1,280	1,313	1,298	1,203	1,312	1,352	1,371	1,492	1,395	1,447	1,448	1,387
UNEMPLOYED - BLACK MALES 16-19 YEARS												
1973.....	100	223	201	144	148	127	145	109	134	129	131	134
1974.....	135	131	159	136	130	164	169	146	178	160	182	177
1975.....	189	153	166	184	172	182	164	175	154	169	141	150
1976.....	153	151	148	166	183	172	160	174	176	177	163	171
1977.....	154	172	175	137	180	170	225	213	170	184	204	193
UNEMPLOYED - BLACK FEMALES 16-19 YEARS												
1973.....	117	137	123	137	122	146	142	134	168	119	125	126
1974.....	130	125	127	119	154	131	174	111	124	154	150	148
1975.....	160	163	166	157	162	141	138	151	175	159	154	167
1976.....	154	151	167	172	162	158	154	180	142	144	158	140
1977.....	153	143	137	147	138	206	173	170	179	172	172	179
UNEMPLOYED - BLACK MALES 20 YEARS AND OVER												
1973.....	241	243	259	268	277	263	284	271	260	267	257	229
1974.....	279	300	298	293	291	316	275	323	349	378	405	449
1975.....	494	502	544	566	559	576	560	574	605	569	598	591
1976.....	532	523	489	488	464	520	518	506	486	520	564	552
1977.....	494	480	475	400	494	469	494	592	524	571	518	481
UNEMPLOYED - BLACK FEMALES 20 YEARS AND OVER												
1973.....	303	320	317	318	299	320	314	306	307	284	319	314
1974.....	303	288	265	291	303	291	322	310	333	365	389	413
1975.....	420	432	468	461	490	465	431	491	483	476	445	437
1976.....	461	468	433	458	423	474	486	490	464	478	445	490
1977.....	479	518	511	519	500	507	479	517	522	520	554	534
UNEMPLOYED - MARRIED WORKERS, SPOUSE PRESENT												
1973.....	1,902	1,897	1,868	1,836	1,827	1,801	1,769	1,855	1,782	1,730	1,818	1,868
1974.....	1,888	1,991	1,880	1,861	1,831	1,993	2,112	2,204	2,346	2,329	2,712	3,012
1975.....	3,475	3,543	3,792	4,017	4,175	3,946	3,779	3,704	3,770	3,713	3,547	3,450
1976.....	3,188	3,204	3,128	3,092	3,129	3,279	3,353	3,343	3,368	3,316	3,316	3,246
1977.....	2,949	3,130	3,041	2,954	2,915	2,876	2,810	2,843	2,760	2,871	2,798	2,701
UNEMPLOYED - MARRIED MEN, SPOUSE PRESENT												
1973.....	954	960	963	932	902	871	839	860	845	861	886	907
1974.....	923	974	925	945	875	1,004	1,056	1,103	1,126	1,212	1,348	1,529
1975.....	1,776	1,881	2,021	2,179	2,307	2,210	2,156	2,087	2,142	2,094	1,969	1,888
1976.....	1,653	1,665	1,663	1,612	1,629	1,727	1,739	1,686	1,771	1,712	1,741	1,687
1977.....	1,527	1,626	1,524	1,463	1,455	1,361	1,360	1,394	1,316	1,448	1,326	1,282
UNEMPLOYED - MARRIED WOMEN, SPOUSE PRESENT												
1973.....	948	937	905	904	925	930	930	995	937	869	932	961
1974.....	965	1,017	955	916	956	989	1,056	1,101	1,220	1,117	1,364	1,483
1975.....	1,699	1,662	1,771	1,838	1,868	1,736	1,623	1,617	1,628	1,619	1,578	1,562
1976.....	1,535	1,539	1,465	1,480	1,500	1,552	1,614	1,657	1,597	1,604	1,575	1,559
1977.....	1,422	1,504	1,517	1,491	1,460	1,515	1,450	1,449	1,444	1,423	1,472	1,419

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYED - WOMEN WHO HEAD FAMILIES												
IN THOUSANDS												
1973.....	239	227	243	243	230	275	241	225	237	248	286	249
1974.....	236	229	233	243	266	250	237	247	277	272	324	319
1975.....	341	372	383	368	422	403	418	402	382	419	399	423
1976.....	424	419	392	399	385	398	426	445	428	446	414	450
1977.....	395	402	412	404	393	413	406	445	454	424	426	375
UNEMPLOYED - FULL-TIME WORKERS												
1973.....	3,357	3,399	3,345	3,334	3,271	3,200	3,201	3,238	3,247	3,121	3,328	3,359
1974.....	3,508	3,548	3,498	3,554	3,583	3,678	3,859	3,842	4,184	4,375	4,778	5,201
1975.....	5,969	6,034	6,390	6,666	6,992	6,670	6,648	6,392	6,617	6,574	6,334	6,192
1976.....	5,924	5,735	5,714	5,703	5,630	5,869	5,871	5,983	6,018	6,044	6,000	6,048
1977.....	5,623	5,697	5,550	5,427	5,450	5,443	5,401	5,535	5,336	5,387	5,215	4,938
UNEMPLOYED - FULL-TIME WORKERS 16-19 YEARS												
1973.....	660	706	680	698	673	568	660	640	696	697	770	730
1974.....	759	743	755	727	753	785	850	761	889	903	929	894
1975.....	1,028	1,006	1,043	1,056	1,121	1,115	1,100	1,077	1,027	1,024	971	1,023
1976.....	1,019	973	1,006	1,078	993	956	865	1,041	991	1,009	959	980
1977.....	935	978	925	960	921	952	904	944	902	882	916	831
UNEMPLOYED - FULL-TIME MALES 20 YEARS AND OVER												
1973.....	1,514	1,522	1,517	1,467	1,492	1,447	1,380	1,407	1,368	1,339	1,377	1,415
1974.....	1,523	1,578	1,536	1,610	1,548	1,591	1,659	1,755	1,811	2,010	2,138	2,459
1975.....	2,849	2,917	3,151	3,325	3,434	3,358	3,367	3,231	3,445	3,357	3,216	3,047
1976.....	2,831	2,706	2,699	2,643	2,679	2,871	2,899	2,829	2,929	2,923	2,941	2,915
1977.....	2,707	2,759	2,630	2,484	2,529	2,466	2,490	2,516	2,365	2,522	2,284	2,172
UNEMPLOYED - FULL-TIME FEMALES 20 YEARS AND OVER												
1973.....	1,183	1,171	1,148	1,169	1,106	1,185	1,161	1,191	1,183	1,085	1,181	1,214
1974.....	1,226	1,227	1,207	1,217	1,282	1,302	1,350	1,326	1,484	1,462	1,711	1,848
1975.....	2,092	2,111	2,196	2,285	2,437	2,197	2,181	2,084	2,145	2,193	2,147	2,122
1976.....	2,074	2,056	2,009	1,982	1,958	2,042	2,107	2,113	2,098	2,112	2,100	2,153
1977.....	1,981	1,960	1,995	1,983	2,000	2,025	2,007	2,075	2,069	1,983	2,015	1,935
UNEMPLOYED - PART-TIME WORKERS												
1973.....	897	968	964	1,090	1,049	1,080	1,070	1,014	1,044	1,014	990	1,016
1974.....	1,038	1,079	1,042	1,004	1,105	1,132	1,135	1,109	1,214	1,176	1,267	1,306
1975.....	1,368	1,334	1,426	1,409	1,426	1,383	1,384	1,452	1,383	1,421	1,365	1,425
1976.....	1,408	1,413	1,362	1,479	1,399	1,256	1,521	1,445	1,389	1,448	1,468	1,382
1977.....	1,417	1,520	1,574	1,443	1,434	1,489	1,323	1,306	1,407	1,412	1,430	1,329
UNEMPLOYED - PART-TIME WORKERS 16-19 YEARS												
1973.....	433	530	513	629	577	590	542	531	559	553	545	539
1974.....	537	555	559	535	588	624	625	525	639	634	661	700
1975.....	713	692	720	709	691	665	696	730	700	719	692	717
1976.....	717	732	701	719	696	629	762	730	670	701	762	726
1977.....	738	712	807	724	731	754	671	682	769	740	714	614
UNEMPLOYED - PART-TIME MALES 20 YEARS AND OVER												
1973.....	125	124	125	177	144	157	170	162	165	151	133	161
1974.....	169	169	139	142	145	178	152	194	178	172	181	198
1975.....	183	195	218	219	270	216	228	225	237	237	232	214
1976.....	232	223	228	268	220	225	222	214	208	222	217	214
1977.....	240	243	224	227	243	218	198	207	186	198	204	227
UNEMPLOYED - PART-TIME FEMALES 20 YEARS AND OVER												
1973.....	339	314	326	284	328	333	358	321	320	310	312	316
1974.....	332	355	344	327	372	330	358	390	397	370	425	408
1975.....	472	447	488	481	465	502	460	497	446	465	441	494
1976.....	459	458	433	492	483	402	537	501	511	525	489	442
1977.....	439	565	543	492	460	517	454	417	452	474	512	488
UNEMPLOYED - JOB LOSERS												
1973.....	1,766	1,718	1,651	1,629	1,614	1,677	1,602	1,628	1,656	1,481	1,706	1,783
1974.....	2,002	2,015	1,948	1,948	1,902	1,944	2,050	2,080	2,295	2,381	2,867	3,235
1975.....	3,870	4,006	4,260	4,503	4,862	4,739	4,580	4,468	4,652	4,372	4,197	3,938
1976.....	3,669	3,517	3,543	3,560	3,553	3,628	3,722	3,685	3,630	3,633	3,670	3,719
1977.....	3,264	3,425	3,212	3,043	3,080	2,972	3,042	3,197	3,055	3,035	2,969	2,748
UNEMPLOYED - JOB LOSERS ON LAYOFF												
1973.....	486	487	466	454	516	427	424	480	422	367	502	523
1974.....	633	691	659	625	569	620	667	661	746	785	1,050	1,251
1975.....	1,514	1,600	1,747	1,889	1,992	1,992	1,735	1,653	1,726	1,594	1,379	1,284
1976.....	1,033	1,008	985	1,041	1,030	1,031	1,097	1,123	1,128	982	1,025	1,041
1977.....	848	999	896	793	803	822	879	963	847	840	780	687
UNEMPLOYED - JOB LOSERS NOT ON LAYOFF												
1973.....	1,280	1,231	1,185	1,175	1,098	1,250	1,178	1,148	1,234	1,114	1,204	1,260
1974.....	1,369	1,324	1,289	1,323	1,333	1,324	1,383	1,419	1,549	1,596	1,817	1,984
1975.....	2,356	2,406	2,513	2,614	2,870	2,747	2,845	2,815	2,926	2,778	2,818	2,654
1976.....	2,636	2,509	2,558	2,519	2,523	2,597	2,625	2,562	2,502	2,651	2,645	2,678
1977.....	2,416	2,426	2,316	2,250	2,277	2,150	2,163	2,234	2,208	2,195	2,189	2,061

HOUSEHOLD DATA SEASONALLY ADJUSTED

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYED - JOB LEAVERS												
IN THOUSANDS												
1973.....	575	664	688	666	631	681	669	646	677	655	784	751
1974.....	741	760	718	738	688	754	758	773	749	823	767	783
1975.....	764	756	799	827	860	784	810	771	823	809	877	875
1976.....	843	870	770	858	868	879	959	977	930	927	865	850
1977.....	932	881	916	868	913	938	842	891	869	876	881	877
UNEMPLOYED - REENTRANTS												
1973.....	1,370	1,382	1,333	1,471	1,402	1,233	1,318	1,364	1,300	1,260	1,232	1,255
1974.....	1,214	1,249	1,236	1,278	1,453	1,436	1,491	1,471	1,626	1,459	1,665	1,735
1975.....	1,865	1,683	1,878	1,912	1,957	1,893	1,844	1,891	1,832	1,909	1,790	1,949
1976.....	1,932	1,867	1,851	1,834	1,749	1,833	1,911	1,956	1,929	1,920	2,018	1,945
1977.....	1,981	1,972	2,000	1,993	1,961	1,917	1,860	1,872	1,879	1,906	1,891	1,886
UNEMPLOYED - NEW ENTRANTS												
1973.....	633	657	678	684	669	679	643	605	634	609	600	609
1974.....	645	618	632	582	631	663	679	627	719	763	766	749
1975.....	774	804	762	765	825	742	836	872	806	855	834	868
1976.....	876	855	853	899	859	837	794	907	925	909	916	954
1977.....	915	942	999	985	890	1,087	973	947	935	857	901	820
UNEMPLOYED - LESS THAN 5 WEEKS												
1973.....	2,005	2,219	2,112	2,243	2,197	2,298	2,244	2,264	2,185	2,033	2,257	2,299
1974.....	2,356	2,373	2,381	2,318	2,435	2,463	2,493	2,577	2,690	2,686	3,011	3,080
1975.....	3,224	2,859	3,157	2,901	3,051	2,823	2,844	2,771	2,836	2,909	2,664	2,703
1976.....	2,665	2,687	2,586	2,934	2,813	2,729	2,923	2,855	2,849	2,881	2,761	2,843
1977.....	2,784	2,863	2,944	3,041	2,789	3,076	2,820	2,865	2,784	2,804	2,851	2,628
UNEMPLOYED - 5-14 WEEKS												
1973.....	1,325	1,245	1,322	1,449	1,300	1,228	1,298	1,249	1,322	1,302	1,236	1,291
1974.....	1,378	1,401	1,376	1,424	1,381	1,490	1,581	1,472	1,657	1,751	1,898	2,133
1975.....	2,599	2,569	2,588	2,660	2,650	2,496	2,244	2,381	2,345	2,374	2,321	2,175
1976.....	2,096	1,921	1,946	1,939	2,004	2,249	2,159	2,342	2,337	2,274	2,420	2,298
1977.....	2,118	2,142	2,140	1,899	2,128	2,050	2,050	2,237	2,152	2,117	2,037	1,937
UNEMPLOYED - 15 WEEKS AND OVER												
1973.....	936	888	877	790	802	763	740	772	770	782	824	754
1974.....	786	818	834	863	861	903	899	936	1,001	1,063	1,125	1,326
1975.....	1,548	1,831	2,053	2,370	2,608	2,777	2,886	2,818	2,884	2,715	2,825	2,931
1976.....	2,738	2,516	2,412	2,117	2,071	2,236	2,244	2,333	2,272	2,338	2,389	2,462
1977.....	2,244	2,168	2,008	1,828	1,869	1,788	1,824	1,800	1,834	1,848	1,829	1,797
UNEMPLOYED - 15-26 WEEKS												
1973.....	531	520	495	455	457	444	466	445	483	451	479	433
1974.....	461	490	510	515	511	545	524	558	621	672	701	795
1975.....	928	1,120	1,293	1,415	1,526	1,498	1,509	1,370	1,298	1,261	1,179	1,344
1976.....	1,145	981	963	721	860	930	1,023	1,085	1,078	1,095	1,110	1,124
1977.....	1,020	959	859	720	812	826	881	933	908	920	936	941
UNEMPLOYED - 27 WEEKS AND OVER												
1973.....	405	368	382	335	345	319	274	327	287	331	345	321
1974.....	325	328	324	348	350	358	375	378	380	391	424	531
1975.....	620	711	760	955	1,082	1,279	1,377	1,448	1,586	1,454	1,646	1,567
1976.....	1,593	1,535	1,449	1,396	1,211	1,306	1,221	1,248	1,194	1,243	1,279	1,338
1977.....	1,224	1,209	1,149	1,108	1,057	962	943	867	926	928	893	856
UNEMPLOYED - 15 WEEKS AND OVER AS A PERCENT OF THE CIVILIAN LABOR FORCE												
1973.....	1.1	1.0	1.0	.9	.9	.9	.8	.9	.9	.9	.9	.8
1974.....	.9	.9	.9	1.0	.9	1.0	1.0	1.0	1.1	1.2	1.2	1.4
1975.....	1.7	2.0	2.2	2.6	2.8	3.0	3.1	3.0	3.1	2.9	3.0	3.1
1976.....	2.9	2.7	2.6	2.2	2.2	2.4	2.4	2.5	2.4	2.5	2.5	2.6
1977.....	2.3	2.3	2.1	1.9	1.9	1.8	1.9	1.8	1.9	1.9	1.8	1.8
UNEMPLOYED - AVERAGE DURATION OF UNEMPLOYMENT: WEEKS												
1973.....	11.0	10.5	10.6	10.0	10.1	9.6	9.6	9.8	9.4	10.2	9.9	9.5
1974.....	9.5	9.6	9.7	9.8	9.6	9.7	9.9	9.8	9.6	9.9	9.7	10.2
1975.....	10.7	11.7	11.7	12.9	13.4	15.3	14.9	15.5	16.0	15.5	16.6	16.6
1976.....	16.7	16.3	16.4	15.9	15.1	16.8	15.6	15.5	15.3	15.3	15.4	15.3
1977.....	15.3	14.7	14.4	14.4	14.9	14.3	14.1	13.7	14.0	13.8	13.7	13.8
UNEMPLOYED - MEDIAN DURATION OF UNEMPLOYMENT: WEEKS												
1973.....	5.7	5.2	5.5	5.0	4.8	5.0	5.2	4.9	5.4	5.5	5.1	4.8
1974.....	5.0	5.2	4.8	5.0	4.5	5.3	5.7	5.0	5.4	5.5	5.2	5.8
1975.....	6.4	7.2	7.2	8.7	9.0	8.8	8.6	9.3	9.2	8.7	9.5	9.1
1976.....	9.1	8.4	8.6	8.1	7.7	7.7	7.7	8.0	7.9	7.9	8.4	8.2
1977.....	7.7	7.5	7.2	7.0	7.3	6.1	7.2	7.2	6.9	7.1	7.0	7.1
UNEMPLOYED - LABOR FORCE TIME LOST												
1973.....	5.2	5.3	5.2	5.2	5.2	5.3	5.3	5.3	5.2	5.0	5.3	5.4
1974.....	5.6	5.5	5.4	5.6	5.6	5.7	5.9	6.0	6.5	6.4	7.2	7.8
1975.....	8.7	8.8	9.3	9.4	9.8	9.2	9.2	9.0	9.1	9.1	9.0	8.7
1976.....	8.5	8.2	8.1	8.1	8.2	8.0	8.2	8.3	8.4	8.4	8.4	8.4
1977.....	8.1	8.0	7.8	7.4	7.6	7.6	7.5	7.6	7.4	7.4	7.3	7.0

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYMENT RATE - ALL CIVILIAN WORKERS												
1973.....	4.9	5.0	4.9	5.0	4.9	4.8	4.8	4.8	4.8	4.6	4.8	4.9
1974.....	5.0	5.1	5.0	5.0	5.2	5.3	5.5	5.4	5.9	5.9	6.6	7.2
1975.....	8.0	8.1	8.6	8.8	9.1	8.7	8.6	8.4	8.5	8.4	8.3	8.2
1976.....	7.9	7.7	7.6	7.6	7.4	7.5	7.7	7.8	7.7	7.7	7.8	7.8
1977.....	7.4	7.6	7.4	7.1	7.1	7.1	6.9	7.0	6.8	6.8	6.7	6.4
UNEMPLOYMENT RATE - MALES												
1973.....	4.2	4.3	4.2	4.3	4.3	4.1	4.0	4.0	4.0	3.9	4.1	4.1
1974.....	4.3	4.5	4.4	4.4	4.4	4.5	4.6	4.7	5.0	5.2	5.7	6.4
1975.....	7.3	7.5	7.9	8.2	8.4	8.2	8.2	7.8	8.0	7.9	7.8	7.6
1976.....	7.3	7.0	7.0	7.0	6.8	6.9	7.0	6.9	7.0	7.0	7.3	7.2
1977.....	6.8	7.0	6.7	6.3	6.4	6.2	6.1	6.1	5.9	6.0	5.8	5.5
UNEMPLOYMENT RATE - FEMALES												
1973.....	6.1	6.2	6.0	6.0	5.8	6.0	6.0	6.0	6.1	5.7	6.0	6.1
1974.....	6.2	6.2	6.1	5.9	6.4	6.4	6.7	6.5	7.1	7.1	7.9	8.3
1975.....	9.1	9.1	9.5	9.6	10.1	9.4	9.3	9.3	9.1	9.2	9.0	9.2
1976.....	8.7	8.7	8.5	8.5	8.3	8.4	8.8	9.1	8.7	8.8	8.6	8.7
1977.....	8.3	8.4	8.4	8.3	8.2	8.4	8.1	8.2	8.2	8.0	8.1	7.6
UNEMPLOYMENT RATE - BOTH SEXES 16-19 YEARS												
1973.....	13.6	15.2	14.2	15.5	15.0	13.6	14.2	14.0	14.7	14.4	14.9	14.7
1974.....	14.5	14.9	14.9	14.3	15.4	15.9	16.8	14.9	17.1	17.2	17.7	18.3
1975.....	19.3	19.5	20.0	20.0	20.5	20.4	20.6	20.7	19.7	19.9	19.0	19.9
1976.....	19.2	19.2	19.0	19.6	18.8	17.9	18.2	19.6	18.9	19.0	19.1	19.3
1977.....	18.4	18.6	18.7	18.2	18.1	18.0	17.3	17.3	18.3	17.3	17.2	15.6
UNEMPLOYMENT RATE - MALES 16-19 YEARS												
1973.....	13.1	14.1	13.5	14.7	14.5	12.8	13.5	13.7	14.1	14.0	14.4	14.1
1974.....	13.8	14.4	14.4	14.4	14.7	15.3	15.5	14.8	17.2	16.6	17.4	18.1
1975.....	19.4	19.9	19.9	20.9	20.1	21.5	21.3	20.9	19.7	19.8	18.8	19.5
1976.....	19.7	19.2	19.2	20.5	19.5	17.6	18.4	18.6	19.2	19.6	19.5	19.2
1977.....	17.3	18.6	18.6	17.5	17.4	17.5	16.9	17.4	17.7	16.7	16.4	15.3
UNEMPLOYMENT RATE - FEMALES 16-19 YEARS												
1973.....	14.2	16.7	15.1	16.3	15.5	14.5	15.1	14.3	15.6	15.0	15.5	15.3
1974.....	15.3	15.5	15.5	14.3	16.4	16.7	18.4	15.1	17.0	17.9	18.1	18.5
1975.....	19.3	19.0	20.1	18.9	20.9	19.1	19.9	20.4	19.7	20.0	19.2	20.4
1976.....	18.7	19.2	18.7	18.5	17.9	18.2	17.9	20.6	18.4	18.4	18.6	19.3
1977.....	19.6	18.6	18.8	18.9	19.0	18.5	17.8	17.2	18.9	18.0	18.1	16.1
UNEMPLOYMENT RATE - BOTH SEXES 20 YEARS AND OVER												
1973.....	4.0	4.0	3.9	3.9	3.8	3.9	3.8	3.8	3.8	3.5	3.7	3.9
1974.....	4.0	4.1	4.0	4.0	4.1	4.1	4.2	4.6	4.6	4.7	5.4	6.0
1975.....	6.8	6.9	7.3	7.6	7.9	7.5	7.4	7.1	7.3	7.2	7.2	7.0
1976.....	6.7	6.5	6.4	6.3	6.2	6.5	6.6	6.5	6.5	6.5	6.7	6.6
1977.....	6.3	6.4	6.2	5.9	5.9	5.9	5.8	5.9	5.6	5.7	5.6	5.4
UNEMPLOYMENT RATE - MALES 20 YEARS AND OVER												
1973.....	3.4	3.4	3.4	3.3	3.3	3.2	3.1	3.1	3.0	2.9	3.1	3.2
1974.....	3.4	3.5	3.4	3.5	3.4	3.5	3.6	3.8	3.8	4.1	4.6	5.3
1975.....	6.1	6.3	6.8	7.0	7.3	7.0	7.0	6.6	7.0	6.7	6.8	6.5
1976.....	6.1	5.9	5.8	5.7	5.7	6.0	6.0	5.8	5.9	5.8	6.1	6.1
1977.....	5.8	5.9	5.6	5.2	5.3	5.1	5.1	5.1	4.7	5.0	4.7	4.6
UNEMPLOYMENT RATE - FEMALES 20 YEARS AND OVER												
1973.....	5.1	4.9	4.9	4.8	4.6	4.9	4.9	4.9	4.9	4.5	4.8	4.9
1974.....	5.0	5.0	4.9	4.9	5.1	5.1	5.3	5.4	5.9	5.7	6.6	7.0
1975.....	7.9	7.8	8.2	8.5	8.8	8.3	8.0	7.9	7.8	7.9	7.8	7.8
1976.....	7.5	7.4	7.2	7.3	7.1	7.2	7.7	7.7	7.6	7.6	7.4	7.4
1977.....	6.9	7.2	7.2	7.0	6.9	7.2	6.9	7.1	6.9	6.8	6.9	6.6
UNEMPLOYMENT RATE - BOTH SEXES 20-24 YEARS												
1973.....	8.0	7.9	7.8	8.0	7.8	7.9	8.1	7.8	8.0	6.9	7.3	7.6
1974.....	8.2	8.4	7.9	8.0	8.5	8.6	8.9	9.6	9.6	9.2	10.5	11.6
1975.....	12.3	13.1	13.8	14.5	14.8	13.2	13.9	13.5	14.0	13.6	13.6	13.0
1976.....	12.7	11.9	12.0	12.1	11.5	11.7	11.5	11.9	11.7	12.4	12.3	12.2
1977.....	11.4	11.9	11.4	11.0	10.9	10.7	10.7	11.2	10.7	10.4	10.4	10.2
UNEMPLOYMENT RATE - MALES 20-24 YEARS												
1973.....	7.6	7.7	7.3	7.6	7.4	7.5	7.1	7.2	7.2	6.5	6.8	6.9
1974.....	7.7	8.2	7.6	7.6	8.0	8.1	8.3	9.3	9.1	9.3	10.5	11.3
1975.....	12.6	13.4	14.5	15.5	15.4	14.1	15.0	14.5	15.3	14.6	14.2	13.3
1976.....	12.9	11.9	12.0	11.6	11.5	12.0	12.0	11.8	11.6	12.5	12.3	12.6
1977.....	11.4	12.0	11.2	10.8	10.8	10.3	10.6	11.4	10.4	9.9	9.8	9.8
UNEMPLOYMENT RATE - FEMALES 20-24 YEARS												
1973.....	8.5	8.2	8.4	8.4	8.2	8.4	9.3	8.6	9.1	7.5	7.9	8.5
1974.....	8.9	8.6	8.2	8.4	9.1	9.2	9.7	9.9	10.2	9.1	10.4	11.9
1975.....	11.9	12.8	13.1	13.2	14.0	12.1	12.7	12.2	12.4	12.5	13.0	12.6
1976.....	12.4	11.8	11.9	12.6	11.4	11.5	10.9	12.0	11.8	12.3	12.4	11.8
1977.....	11.5	11.7	11.6	11.3	11.1	11.2	10.9	11.0	11.0	11.0	11.1	10.8

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYMENT RATE - BOTH SEXES 25 YEARS AND OVER												
1973.....	3.3	3.2	3.2	3.1	3.0	3.1	3.0	3.1	3.0	2.9	3.0	3.1
1974.....	3.2	3.3	3.2	3.3	3.2	3.3	3.4	3.5	3.8	4.0	4.4	4.9
1975.....	5.7	5.6	6.0	6.3	6.5	6.4	6.2	6.0	6.1	6.1	5.9	5.8
1976.....	5.5	5.3	5.2	5.2	5.2	5.4	5.8	5.6	5.7	5.5	5.5	5.5
1977.....	5.2	5.2	5.1	5.0	4.9	5.0	4.9	4.9	4.7	4.9	4.7	4.4
UNEMPLOYMENT RATE - MALES 25 YEARS AND OVER												
1973.....	2.7	2.6	2.7	2.6	2.6	2.5	2.5	2.5	2.4	2.4	2.4	2.5
1974.....	2.6	2.7	2.6	2.8	2.6	2.7	2.8	2.9	3.1	3.4	3.6	4.2
1975.....	4.9	4.9	5.4	5.6	5.9	5.8	5.7	5.5	5.7	5.7	5.4	5.2
1976.....	4.8	4.7	4.6	4.7	4.6	4.9	5.0	4.9	5.1	4.9	5.0	4.9
1977.....	4.7	4.6	4.4	4.3	4.3	4.1	4.2	4.1	3.9	4.3	3.8	3.6
UNEMPLOYMENT RATE - FEMALES 25 YEARS AND OVER												
1973.....	4.3	4.1	4.1	4.0	3.8	4.2	4.0	4.1	4.0	3.8	4.1	4.2
1974.....	4.2	4.2	4.2	4.1	4.2	4.2	4.4	4.3	5.0	4.9	5.8	5.9
1975.....	7.0	6.7	7.1	7.4	7.5	7.4	7.1	6.8	6.8	6.8	6.6	6.7
1976.....	6.4	6.4	6.2	6.1	6.1	6.2	7.1	6.6	6.6	6.5	6.3	6.4
1977.....	6.0	6.1	6.2	6.1	5.9	6.2	6.2	6.2	6.0	5.8	6.0	5.7
UNEMPLOYMENT RATE - BOTH SEXES 25-54 YEARS												
1973.....	3.4	3.3	3.3	3.3	3.2	3.3	3.1	3.2	3.0	3.0	3.1	3.3
1974.....	3.3	3.4	3.3	3.5	3.3	3.4	3.5	3.6	3.9	4.2	4.7	5.1
1975.....	6.0	5.9	6.4	6.7	6.9	6.8	6.5	6.4	6.4	6.5	6.2	6.1
1976.....	5.6	5.6	5.4	5.4	5.4	5.6	6.0	5.8	5.9	5.8	5.8	5.8
1977.....	5.4	5.4	5.4	5.2	5.2	5.2	5.1	5.2	4.8	5.1	4.8	4.6
UNEMPLOYMENT RATE - MALES 25-54 YEARS												
1973.....	2.7	2.7	2.8	2.7	2.6	2.5	2.4	2.5	2.3	2.3	2.3	2.5
1974.....	2.6	2.7	2.7	3.0	2.6	2.8	2.9	2.9	3.1	3.6	3.8	4.4
1975.....	5.1	5.2	5.6	5.8	6.2	6.1	6.0	5.8	6.0	5.9	5.7	5.4
1976.....	4.9	4.8	4.6	4.7	4.7	5.0	5.2	5.0	5.1	5.1	5.2	5.1
1977.....	4.8	4.7	4.5	4.4	4.4	4.3	4.3	4.3	3.8	4.3	3.9	3.6
UNEMPLOYMENT RATE - FEMALES 25-54 YEARS												
1973.....	4.6	4.4	4.3	4.3	4.1	4.6	4.2	4.4	4.2	4.2	4.4	4.6
1974.....	4.4	4.6	4.4	4.5	4.4	4.5	4.6	4.6	5.2	5.2	6.2	6.3
1975.....	7.5	7.2	7.7	8.0	8.1	7.9	7.4	7.3	7.2	7.3	7.0	7.1
1976.....	6.7	6.8	6.6	6.5	6.6	6.6	7.2	7.0	7.0	7.0	6.7	6.9
1977.....	6.3	6.4	6.7	6.5	6.2	6.6	6.4	6.5	6.4	6.2	6.3	6.0
UNEMPLOYMENT RATE - BOTH SEXES 25-34 YEARS												
1973.....	4.3	4.2	4.2	4.2	4.4	4.4	4.1	4.4	4.1	3.9	4.0	4.2
1974.....	4.2	4.3	4.3	4.6	4.1	4.3	4.5	4.6	4.7	5.4	5.9	6.4
1975.....	7.3	7.4	7.9	8.2	8.5	8.5	8.1	7.6	7.8	7.7	7.5	7.4
1976.....	6.9	7.0	6.7	6.6	6.9	7.1	7.3	7.3	7.3	7.3	7.2	7.2
1977.....	6.7	6.8	6.7	6.8	6.4	6.4	6.4	6.4	6.1	6.6	6.1	5.9
UNEMPLOYMENT RATE - MALES 25-34 YEARS												
1973.....	3.4	3.4	3.5	3.3	3.6	3.2	3.3	3.4	3.3	3.2	2.9	3.2
1974.....	3.4	3.3	3.5	4.1	3.5	3.6	3.7	3.8	3.7	4.7	4.8	5.8
1975.....	6.2	6.6	7.0	7.3	7.4	7.6	7.3	6.8	7.2	6.9	6.9	6.6
1976.....	6.1	6.1	5.7	5.9	6.0	6.2	6.4	6.3	6.3	6.4	6.5	6.3
1977.....	6.0	5.9	5.7	5.8	5.7	5.5	5.8	5.7	5.3	5.9	5.2	4.8
UNEMPLOYMENT RATE - FEMALES 25-34 YEARS												
1973.....	6.1	5.6	5.6	5.6	5.9	6.6	5.7	6.0	5.4	5.3	6.0	5.9
1974.....	5.8	5.9	5.7	5.6	5.2	5.4	6.0	5.9	6.5	6.7	7.6	7.6
1975.....	9.0	8.7	9.4	9.7	10.3	9.9	9.4	9.0	8.8	8.9	8.4	8.6
1976.....	8.2	8.5	8.2	7.8	8.3	8.4	8.7	8.8	8.8	8.8	8.3	8.6
1977.....	7.7	8.1	8.1	8.4	7.5	7.8	7.4	7.5	7.4	7.6	7.5	7.5
UNEMPLOYMENT RATE - BOTH SEXES 35-44 YEARS												
1973.....	3.0	2.8	2.9	2.7	2.7	2.7	2.5	2.6	2.7	2.4	2.7	2.9
1974.....	2.9	3.0	2.8	3.0	3.1	3.2	3.2	3.3	3.6	3.7	4.2	4.6
1975.....	5.5	5.4	5.8	6.1	6.1	5.8	5.4	5.6	5.6	5.7	5.6	5.4
1976.....	5.0	4.9	4.7	4.8	4.6	4.9	5.2	5.1	5.2	5.0	4.9	5.0
1977.....	4.5	4.6	4.6	4.1	4.6	4.6	4.5	4.5	4.2	4.2	4.3	3.9
UNEMPLOYMENT RATE - MALES 35-44 YEARS												
1973.....	2.1	2.2	2.3	2.1	2.0	2.0	1.8	1.8	1.8	1.6	1.9	2.3
1974.....	2.2	2.2	2.0	2.2	2.2	2.3	2.4	2.5	2.9	3.0	3.3	3.8
1975.....	4.4	4.4	5.0	5.2	5.7	5.1	5.0	5.0	4.8	4.8	4.9	4.6
1976.....	4.2	4.1	3.8	3.8	3.8	4.2	4.5	4.4	4.6	4.3	4.1	4.0
1977.....	3.7	3.8	3.9	3.3	3.8	3.6	3.5	3.4	3.0	3.3	3.2	2.7
UNEMPLOYMENT RATE - FEMALES 35-44 YEARS												
1973.....	4.4	4.0	4.0	3.7	3.8	3.7	3.8	3.9	4.2	3.7	4.0	3.8
1974.....	4.0	4.2	4.2	4.4	4.7	4.5	4.3	4.6	4.7	4.7	5.6	5.9
1975.....	7.3	6.9	7.0	7.6	6.8	7.0	6.0	6.7	6.7	7.0	6.6	6.7
1976.....	6.3	6.1	6.0	6.2	6.0	5.9	6.4	6.1	6.2	6.1	6.0	6.4
1977.....	5.8	5.8	5.7	5.3	5.7	6.0	6.0	6.1	6.0	5.5	5.9	5.6

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYMENT RATE - BOTH SEXES 45-54 YEARS												
1973.....	2.7	2.8	2.7	2.8	2.3	2.5	2.3	2.4	2.2	2.3	2.5	2.6
1974.....	2.6	2.7	2.7	2.6	2.5	2.6	2.7	2.6	3.2	3.2	3.7	4.0
1975.....	4.9	4.7	5.0	5.2	5.7	5.6	5.6	5.4	5.5	5.6	5.0	5.0
1976.....	4.5	4.3	4.3	4.3	4.2	4.3	4.9	4.4	4.5	4.5	4.6	4.8
1977.....	4.4	4.2	4.3	4.0	4.0	4.1	3.7	4.0	3.6	3.7	3.6	3.5
UNEMPLOYMENT RATE - MALES 45-54 YEARS												
1973.....	2.4	2.5	2.3	2.4	2.1	2.0	1.8	1.9	1.6	1.7	2.0	2.0
1974.....	2.2	2.2	2.4	2.2	2.0	2.1	2.3	2.2	2.5	2.6	3.0	3.3
1975.....	4.4	4.0	4.3	4.5	5.2	5.2	5.2	5.2	5.4	5.7	4.7	4.6
1976.....	4.1	3.6	3.9	3.9	3.7	4.0	4.2	3.8	4.0	4.0	4.3	4.6
1977.....	4.0	3.8	3.4	3.4	3.3	3.2	2.8	3.0	2.5	3.0	2.6	2.9
UNEMPLOYMENT RATE - FEMALES 45-54 YEARS												
1973.....	3.2	3.4	3.2	3.6	2.5	3.2	3.1	3.1	3.1	3.3	3.1	3.7
1974.....	3.3	3.4	3.1	3.2	3.2	3.4	3.2	3.1	4.2	4.0	5.0	5.2
1975.....	5.8	5.7	6.2	6.3	6.6	6.3	6.2	5.8	5.6	5.5	5.4	5.6
1976.....	5.1	5.3	4.9	4.9	4.9	4.7	6.0	5.3	5.3	5.3	5.1	5.1
1977.....	4.9	4.7	4.6	5.0	5.0	5.5	5.2	5.5	5.2	4.8	4.9	4.4
UNEMPLOYMENT RATE - BOTH SEXES 55 YEARS AND OVER												
1973.....	2.8	2.7	2.6	2.5	2.5	2.6	2.8	2.7	2.7	2.7	2.7	2.6
1974.....	2.8	2.8	2.6	2.6	2.7	2.7	2.8	3.2	3.1	3.2	3.2	3.9
1975.....	4.2	4.5	4.6	4.9	5.0	4.9	4.9	4.7	4.6	5.0	4.9	5.1
1976.....	4.6	4.5	4.7	4.6	4.4	4.7	4.9	4.8	4.7	4.5	4.6	4.3
1977.....	4.2	4.6	4.2	4.1	4.1	3.8	3.9	3.9	4.1	4.2	4.1	4.0
UNEMPLOYMENT RATE - MALES 55 YEARS AND OVER												
1973.....	2.6	2.3	2.3	2.4	2.6	2.6	2.8	2.6	2.7	2.8	2.7	2.4
1974.....	2.7	2.9	2.3	2.4	2.3	2.5	2.7	3.2	2.8	2.8	2.8	3.5
1975.....	4.0	4.2	4.4	4.8	4.7	4.6	4.7	4.6	4.6	4.7	4.7	4.8
1976.....	4.3	4.4	4.7	4.4	4.4	4.8	4.3	4.7	4.5	4.3	4.4	4.0
1977.....	4.1	4.5	4.2	3.8	3.9	3.3	3.7	3.5	3.9	4.1	3.7	3.7
UNEMPLOYMENT RATE - FEMALES 55 YEARS AND OVER												
1973.....	3.3	3.5	3.2	2.7	2.4	2.5	2.7	3.0	2.6	2.5	2.7	2.8
1974.....	2.9	2.7	3.2	2.9	3.3	3.1	3.0	3.2	3.6	3.8	4.0	4.4
1975.....	4.7	4.9	4.9	5.2	5.4	5.3	5.2	5.0	4.7	5.4	5.1	5.5
1976.....	5.1	4.7	4.7	4.9	4.3	4.6	5.8	5.2	5.1	5.0	4.9	4.7
1977.....	4.4	4.8	4.4	4.5	4.4	4.5	4.4	4.5	4.5	4.5	4.8	4.4
UNEMPLOYMENT RATE - BOTH SEXES 55-64 YEARS												
1973.....	2.8	2.8	2.6	2.5	2.4	2.3	2.6	2.5	2.5	2.7	2.6	2.5
1974.....	2.6	2.7	2.5	2.4	2.6	2.6	2.7	3.0	3.0	3.0	3.1	3.9
1975.....	4.2	4.4	4.5	4.7	4.6	4.7	4.7	4.6	4.6	4.9	4.7	4.6
1976.....	4.3	4.4	4.5	4.6	4.2	4.6	4.6	4.8	4.7	4.5	4.4	4.2
1977.....	4.0	4.4	4.0	3.8	3.8	3.6	3.6	3.7	3.9	4.0	3.9	3.7
UNEMPLOYMENT RATE - MALES 55-64 YEARS												
1973.....	2.5	2.3	2.3	2.4	2.6	2.4	2.5	2.3	2.4	2.7	2.5	2.3
1974.....	2.5	2.8	2.2	2.2	2.2	2.4	2.6	2.9	2.7	2.6	2.6	3.4
1975.....	3.9	4.0	4.2	4.4	4.5	4.3	4.4	4.4	4.4	4.4	4.4	4.4
1976.....	4.0	4.1	4.4	4.3	4.2	4.6	4.2	4.5	4.4	4.1	4.1	3.8
1977.....	3.7	4.2	3.7	3.5	3.5	3.1	3.3	3.2	3.5	3.9	3.4	3.4
UNEMPLOYMENT RATE - FEMALES 55-64 YEARS												
1973.....	3.3	3.6	3.2	2.7	2.3	2.1	2.7	2.9	2.6	2.7	2.8	2.8
1974.....	2.7	2.5	3.0	2.8	3.2	3.1	2.9	3.2	3.5	3.8	4.0	4.7
1975.....	4.8	5.0	5.0	5.3	4.9	5.5	5.3	4.9	4.9	5.7	5.0	4.9
1976.....	4.9	4.8	4.6	4.9	4.2	4.6	5.4	5.3	5.2	5.1	4.9	4.8
1977.....	4.5	4.9	4.4	4.4	4.3	4.3	4.3	4.5	4.5	4.3	4.8	4.2
UNEMPLOYMENT RATE - BOTH SEXES 65 YEARS AND OVER												
1973.....	3.1	2.7	2.4	2.5	2.7	3.6	3.6	3.5	3.3	2.7	2.9	3.1
1974.....	3.3	3.4	3.2	3.1	3.2	3.0	3.2	4.0	3.5	3.7	3.6	3.7
1975.....	4.2	4.8	4.8	5.8	6.3	5.4	5.4	5.3	4.7	5.2	5.6	7.0
1976.....	5.6	5.1	5.7	4.8	5.0	5.1	5.9	5.1	4.7	4.8	5.1	4.5
1977.....	5.1	5.3	5.3	4.9	5.1	4.6	5.1	4.8	5.0	5.0	5.0	5.1
UNEMPLOYMENT RATE - MALES 65 YEARS AND OVER												
1973.....	2.9	2.5	2.0	2.4	2.7	3.4	4.0	3.5	3.7	3.2	3.1	3.0
1974.....	3.2	3.2	2.8	3.0	2.9	2.8	3.0	4.3	3.2	3.6	3.5	3.9
1975.....	4.3	4.8	4.9	6.1	5.7	5.8	5.6	5.2	5.2	5.6	5.9	6.4
1976.....	5.5	5.4	6.0	4.8	5.3	5.4	4.8	5.4	4.9	4.8	5.2	4.5
1977.....	5.9	5.9	6.0	5.0	5.2	4.1	5.2	4.8	5.5	5.0	5.1	5.0
UNEMPLOYMENT RATE - FEMALES 65 YEARS AND OVER												
1973.....	3.5	3.0	3.1	2.6	2.7	4.0	2.7	3.4	2.7	1.6	2.6	3.2
1974.....	3.6	4.0	3.8	3.2	3.7	3.3	3.4	3.4	4.1	3.9	3.8	3.5
1975.....	4.1	4.8	4.6	5.1	7.5	4.8	4.9	5.3	3.7	4.5	5.2	8.0
1976.....	5.8	4.5	5.2	4.7	4.4	4.6	7.8	4.6	4.4	4.6	4.9	4.4
1977.....	3.9	4.4	4.2	4.8	5.1	5.6	4.9	4.8	4.2	5.0	4.8	5.3

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYMENT RATE - MALES 16-21 YEARS												
1973.....	11.6	11.7	11.7	12.6	12.4	10.6	11.8	11.9	11.9	11.9	12.5	12.1
1974.....	12.1	12.2	12.6	12.3	13.1	13.5	13.6	13.9	14.7	14.7	15.4	15.9
1975.....	17.4	17.6	18.5	19.2	19.2	19.8	20.1	19.0	18.5	18.3	17.8	17.6
1976.....	18.4	17.3	17.5	17.5	16.7	16.2	17.1	16.8	16.8	17.3	17.7	17.3
1977.....	15.9	16.8	16.4	15.4	15.5	15.6	15.7	15.8	15.4	13.9	14.6	13.9
UNEMPLOYMENT RATE - MALES 16-21 YEARS: MAJOR ACTIVITY SCHOOL												
1973.....	16.3	15.1	16.9	19.3	17.1	17.4	19.1	19.1	16.8	17.2	17.1	17.0
1974.....	17.0	17.5	17.1	17.0	19.7	19.9	20.1	20.1	20.2	19.0	21.0	20.9
1975.....	21.8	22.1	20.3	22.3	21.9	21.1	20.3	20.0	21.3	22.0	21.4	22.2
1976.....	23.4	21.7	23.5	22.8	22.4	20.6	20.8	20.9	19.4	22.1	24.0	22.5
1977.....	20.4	22.1	24.4	20.0	20.0	21.2	21.3	21.8	22.0	20.3	19.4	17.7
UNEMPLOYMENT RATE - MALES 16-21 YEARS: MAJOR ACTIVITY OTHER												
1973.....	10.4	10.7	10.2	10.6	10.9	9.0	9.8	9.8	10.6	10.4	11.2	10.8
1974.....	10.7	10.8	11.4	11.3	11.4	11.8	11.7	12.1	13.1	13.5	13.7	14.5
1975.....	16.1	16.2	17.9	18.2	18.5	19.4	20.0	18.7	17.6	17.3	16.7	16.3
1976.....	16.8	16.1	15.8	16.1	15.0	14.8	16.0	15.7	16.0	15.9	15.7	15.8
1977.....	14.6	15.3	14.1	14.1	14.3	14.2	14.2	14.2	13.4	12.1	13.2	12.7
UNEMPLOYMENT RATE - FEMALES 16-21 YEARS												
1973.....	12.5	13.8	12.6	13.7	13.0	13.0	12.7	12.9	13.4	12.5	13.4	13.6
1974.....	13.8	14.0	13.6	12.9	14.5	14.1	15.4	14.2	15.2	15.2	15.2	16.0
1975.....	16.9	17.4	18.5	17.2	19.1	17.2	17.9	18.5	17.6	17.9	17.5	18.3
1976.....	16.7	16.3	16.1	16.8	15.6	16.4	15.4	18.0	16.0	16.0	16.7	16.7
1977.....	17.1	16.5	16.6	16.6	16.2	16.2	15.5	15.4	16.4	15.6	16.0	14.8
UNEMPLOYMENT RATE - FEMALES 16-21 YEARS: MAJOR ACTIVITY SCHOOL												
1973.....	14.1	17.1	15.4	17.1	15.9	16.8	17.6	17.4	15.7	15.9	14.9	16.7
1974.....	16.3	18.0	15.9	15.0	17.0	18.4	18.4	18.8	18.6	18.6	18.3	19.7
1975.....	21.1	20.7	22.1	19.4	22.1	20.2	19.3	19.6	19.9	20.8	19.9	20.9
1976.....	19.5	19.1	19.4	21.4	18.7	19.7	19.7	18.7	19.7	16.7	21.5	19.7
1977.....	20.8	20.6	20.7	21.3	20.9	18.0	18.7	19.7	20.9	18.3	19.5	17.2
UNEMPLOYMENT RATE - FEMALES 16-21 YEARS: MAJOR ACTIVITY OTHER												
1973.....	12.1	12.8	11.8	12.6	12.1	12.0	11.3	11.5	12.7	11.5	12.9	12.6
1974.....	13.1	12.9	12.9	12.5	13.8	12.9	14.6	12.9	14.3	14.1	14.3	14.9
1975.....	15.6	16.5	17.4	16.5	18.3	16.3	17.4	18.2	16.9	17.0	16.8	17.6
1976.....	15.9	15.5	15.1	15.6	14.7	15.3	14.2	17.8	14.8	15.8	15.1	15.7
1977.....	15.9	15.2	15.3	15.2	14.8	15.8	14.7	14.2	14.9	14.8	14.9	14.0
UNEMPLOYMENT RATE - WHITE WORKERS												
1973.....	4.5	4.5	4.4	4.4	4.3	4.3	4.2	4.3	4.3	4.1	4.3	4.4
1974.....	4.5	4.6	4.5	4.5	4.6	4.8	4.9	4.9	5.4	5.4	6.0	6.4
1975.....	7.4	7.4	7.8	8.0	8.4	8.0	8.0	7.8	7.8	7.8	7.6	7.5
1976.....	7.2	6.9	6.8	6.9	6.8	6.8	7.1	7.1	7.1	7.1	7.1	7.0
1977.....	6.7	6.8	6.6	6.4	6.3	6.3	6.1	6.1	6.0	6.0	5.9	5.5
UNEMPLOYMENT RATE - WHITE WORKERS 16-19 YEARS												
1973.....	11.9	13.1	12.5	13.5	13.1	11.6	12.0	12.1	12.4	12.8	13.2	12.9
1974.....	12.9	13.0	12.8	12.6	13.5	14.0	14.2	13.0	15.3	15.0	15.5	15.8
1975.....	17.2	17.2	17.7	17.8	18.4	18.6	18.7	18.7	17.6	17.8	17.2	17.8
1976.....	17.6	17.2	17.0	17.3	16.4	15.6	16.2	17.2	16.5	16.9	17.2	17.2
1977.....	16.7	16.5	16.6	16.2	15.9	15.7	14.3	14.7	15.8	14.9	14.7	12.7
UNEMPLOYMENT RATE - WHITE WORKERS 20 YEARS AND OVER												
1973.....	3.7	3.6	3.5	3.5	3.4	3.5	3.3	3.4	3.4	3.2	3.3	3.5
1974.....	3.6	3.7	3.6	3.7	3.7	3.8	3.9	4.1	4.3	4.4	4.9	5.4
1975.....	6.3	6.3	6.7	7.0	7.3	6.9	6.9	6.6	6.7	6.8	6.6	6.4
1976.....	6.1	5.8	5.8	5.7	5.7	5.9	6.1	6.0	6.1	6.1	6.1	6.0
1977.....	5.7	5.7	5.6	5.3	5.2	5.3	5.2	5.2	5.0	5.0	4.9	4.8
UNEMPLOYMENT RATE - WHITE MALES												
1973.....	3.9	3.9	3.8	3.8	3.8	3.7	3.5	3.6	3.7	3.5	3.7	3.8
1974.....	3.9	3.9	3.8	4.0	4.0	4.0	4.2	4.3	4.6	4.8	5.2	5.7
1975.....	6.6	6.7	7.2	7.4	7.8	7.6	7.6	7.3	7.5	7.3	7.1	6.8
1976.....	6.6	6.2	6.3	6.3	6.2	6.3	6.5	6.4	6.5	6.5	6.6	6.4
1977.....	6.1	6.2	6.0	5.7	5.7	5.5	5.3	5.3	5.2	5.2	5.0	4.8
UNEMPLOYMENT RATE - WHITE MALES 16-19 YEARS												
1973.....	11.8	12.2	12.1	12.8	12.8	11.3	11.7	12.4	12.5	12.6	12.9	12.5
1974.....	12.4	12.6	12.0	12.4	13.3	13.2	13.4	12.7	15.1	14.6	15.3	15.8
1975.....	17.3	18.0	18.0	18.7	18.4	19.8	19.4	19.1	18.0	17.9	17.6	17.9
1976.....	18.6	17.3	17.7	18.4	17.6	15.5	16.9	16.6	16.8	17.5	17.9	17.2
1977.....	15.9	16.2	16.3	15.5	15.1	15.6	13.7	14.8	15.5	14.5	14.0	12.5
UNEMPLOYMENT RATE - WHITE MALES 20 YEARS AND OVER												
1973.....	3.2	3.1	3.1	3.0	3.0	2.9	2.7	2.8	2.8	2.7	2.8	2.9
1974.....	3.1	3.1	3.0	3.2	3.1	3.2	3.3	3.5	3.6	3.9	4.2	4.8
1975.....	5.6	5.6	6.1	6.4	6.8	6.5	6.5	6.2	6.5	6.4	6.2	5.8
1976.....	5.5	5.1	5.2	5.1	5.2	5.4	5.5	5.4	5.6	5.5	5.5	5.4
1977.....	5.2	5.3	5.0	4.8	4.7	4.5	4.5	4.4	4.2	4.4	4.1	4.0

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYMENT RATE - WHITE FEMALES												
1973.....	5.4	5.5	5.3	5.4	5.2	5.3	5.2	5.3	5.3	5.1	5.3	5.5
1974.....	5.6	5.6	5.6	5.4	5.7	6.0	6.0	5.9	6.6	6.4	7.2	7.5
1975.....	8.6	8.4	8.8	9.0	9.4	8.8	8.7	8.5	8.1	8.5	8.3	8.5
1976.....	8.1	7.9	7.7	7.8	7.5	7.6	8.0	8.3	7.9	8.0	8.0	7.9
1977.....	7.7	7.6	7.6	7.4	7.2	7.5	7.2	7.3	7.3	7.1	7.1	6.6
UNEMPLOYMENT RATE - WHITE FEMALES 16-19 YEARS												
1973.....	12.1	14.1	13.0	14.5	13.5	12.0	12.3	11.7	12.4	13.0	13.6	13.3
1974.....	13.5	13.6	13.6	12.7	13.7	15.0	15.1	13.3	15.7	15.5	15.8	15.9
1975.....	17.1	16.3	17.4	16.7	18.6	17.3	17.8	18.3	17.1	17.7	16.8	17.7
1976.....	16.5	17.1	16.2	16.0	15.2	15.8	15.4	18.0	16.2	16.2	16.4	17.3
1977.....	17.7	16.7	16.9	17.0	16.9	15.7	15.0	14.5	16.2	15.4	15.5	12.8
UNEMPLOYMENT RATE - WHITE FEMALES 20 YEARS AND OVER												
1973.....	4.6	4.4	4.3	4.3	4.1	4.4	4.3	4.5	4.4	4.1	4.2	4.4
1974.....	4.5	4.6	4.6	4.5	4.7	4.8	4.8	5.0	5.5	5.2	6.1	6.5
1975.....	7.5	7.4	7.7	8.0	8.2	7.7	7.6	7.2	7.0	7.3	7.3	7.4
1976.....	7.0	6.7	6.7	6.7	6.5	6.6	7.0	7.0	6.9	7.0	6.9	6.8
1977.....	6.4	6.4	6.5	6.2	6.0	6.5	6.2	6.3	6.2	6.1	6.1	5.9
UNEMPLOYMENT RATE - BLACK AND OTHER WORKERS												
1973.....	8.7	8.9	8.8	9.1	9.0	9.0	9.4	8.9	9.3	8.4	8.9	8.5
1974.....	9.0	9.2	9.1	8.7	9.1	9.2	9.9	9.4	9.9	10.9	11.6	12.4
1975.....	13.1	13.3	14.0	14.2	14.3	14.1	13.6	14.2	14.5	14.1	13.7	13.6
1976.....	13.3	13.6	12.7	13.0	12.3	13.4	13.0	13.4	12.8	13.3	13.3	13.5
1977.....	12.6	13.1	12.9	12.3	12.9	13.2	13.3	14.3	13.1	13.7	13.7	12.7
UNEMPLOYMENT RATE - BLACK AND OTHER WORKERS 16-19 YEARS												
1973.....	29.3	31.3	28.8	31.6	30.0	30.5	31.5	29.5	33.5	27.7	29.5	29.3
1974.....	29.0	30.1	32.6	29.6	31.3	32.6	37.4	30.8	31.7	34.3	37.5	37.6
1975.....	39.7	36.6	39.7	37.6	36.8	35.9	35.2	37.1	35.9	36.5	34.9	36.4
1976.....	35.3	35.8	35.6	38.4	37.8	41.0	34.1	39.6	37.9	38.1	36.3	35.3
1977.....	36.2	37.4	38.9	35.8	38.4	40.0	40.8	39.4	37.4	38.0	39.0	38.0
UNEMPLOYMENT RATE - BLACK AND OTHER WORKERS 20 YEARS AND OVER												
1973.....	6.7	6.7	6.9	6.8	6.9	6.8	7.2	6.9	6.8	6.5	6.9	6.4
1974.....	7.0	7.1	6.8	6.7	6.9	6.8	7.1	7.3	7.6	8.4	9.0	9.9
1975.....	10.5	10.9	11.5	11.8	12.0	11.9	11.4	12.0	12.4	11.9	11.7	11.4
1976.....	11.1	11.5	10.5	10.5	9.9	11.0	11.1	10.9	10.5	11.0	11.2	11.5
1977.....	10.5	11.0	10.6	10.3	10.7	10.6	10.6	11.8	10.9	11.3	11.3	10.2
UNEMPLOYMENT RATE - BLACK AND OTHER MALES												
1973.....	7.1	7.4	7.5	8.1	8.1	7.5	8.5	7.6	7.7	7.5	7.7	6.9
1974.....	7.8	8.6	8.9	8.2	7.8	8.8	8.7	8.9	9.7	10.0	10.9	11.8
1975.....	12.8	12.9	13.7	14.3	14.0	14.1	13.9	14.0	14.3	13.9	13.8	13.6
1976.....	13.0	13.1	12.3	12.4	11.9	13.1	12.3	12.5	12.2	12.9	13.4	13.4
1977.....	12.1	12.2	12.1	10.6	12.3	11.8	13.0	14.2	12.6	13.5	12.6	11.6
UNEMPLOYMENT RATE - BLACK AND OTHER MALES 16-19 YEARS												
1973.....	25.2	26.6	25.4	29.2	27.4	26.6	29.2	24.9	27.5	24.5	27.7	27.7
1974.....	26.4	29.0	33.2	28.5	25.5	33.1	32.2	31.1	34.4	31.8	36.1	37.0
1975.....	39.7	33.0	37.2	36.4	35.1	36.7	35.2	37.3	32.9	35.9	31.4	32.9
1976.....	33.1	35.2	32.6	35.9	36.1	39.3	29.8	36.9	38.4	37.7	35.2	35.2
1977.....	34.5	38.4	40.0	34.4	38.5	35.7	40.0	37.9	34.5	35.8	38.4	36.1
UNEMPLOYMENT RATE - BLACK AND OTHER MALES 20 YEARS AND OVER												
1973.....	5.3	5.5	5.7	5.9	6.2	5.6	6.4	5.9	5.6	5.8	5.6	4.8
1974.....	5.8	6.6	6.4	6.2	6.1	6.4	6.2	6.7	7.1	7.7	8.3	9.3
1975.....	10.2	10.9	11.4	12.1	12.0	11.8	11.9	11.8	12.6	11.8	12.2	11.8
1976.....	11.1	11.0	10.4	10.1	9.6	10.8	10.7	10.2	9.8	10.5	11.3	11.3
1977.....	10.1	9.9	9.6	8.6	10.0	9.6	10.2	11.7	10.5	11.3	10.0	9.1
UNEMPLOYMENT RATE - BLACK AND OTHER FEMALES												
1973.....	10.6	10.8	10.5	10.4	10.1	11.0	10.6	10.5	11.3	9.6	10.5	10.4
1974.....	10.6	10.0	9.4	9.4	10.7	9.7	11.4	9.9	10.1	11.9	12.4	13.2
1975.....	13.4	13.7	14.4	14.1	14.6	14.0	13.1	14.4	14.7	14.2	13.6	13.6
1976.....	13.5	14.2	13.1	13.7	12.8	13.9	13.9	14.4	13.5	13.7	13.3	13.6
1977.....	13.2	14.1	13.8	14.2	13.6	14.7	13.6	14.3	13.7	13.9	14.9	13.9
UNEMPLOYMENT RATE - BLACK AND OTHER FEMALES 16-19 YEARS												
1973.....	34.7	37.1	33.2	34.8	33.3	34.8	34.4	34.9	40.6	31.9	31.7	31.3
1974.....	32.5	31.7	31.8	31.0	38.2	32.0	44.0	30.3	28.3	37.6	39.3	38.4
1975.....	39.7	40.9	42.7	38.9	38.6	35.0	35.2	37.0	38.9	37.1	38.5	40.0
1976.....	37.8	36.5	39.0	41.3	39.9	43.1	39.0	42.7	37.4	38.5	37.6	35.3
1977.....	38.2	36.3	37.4	37.4	38.4	44.8	41.7	41.4	40.8	40.5	39.9	40.4
UNEMPLOYMENT RATE - BLACK AND OTHER FEMALES 20 YEARS AND OVER												
1973.....	8.5	8.2	8.4	8.0	7.9	8.3	8.2	8.1	8.1	7.5	8.4	8.3
1974.....	8.4	7.9	7.3	7.4	7.9	7.4	8.1	8.0	8.3	9.3	9.9	10.7
1975.....	10.8	10.9	11.6	11.5	12.0	11.9	10.9	12.2	12.2	11.9	11.1	10.9
1976.....	11.2	12.1	10.6	11.0	10.2	11.3	11.6	11.7	11.4	11.5	11.1	11.7
1977.....	11.0	12.2	11.8	12.2	11.6	11.8	11.1	11.8	11.2	11.4	12.6	11.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYMENT RATE - BLACK WORKERS												
1973.....	8.9	10.3	10.1	9.8	9.6	9.7	9.9	9.2	9.7	8.9	9.2	8.9
1974.....	9.3	9.3	9.4	9.3	9.7	10.0	10.4	9.9	10.8	11.5	12.4	13.1
1975.....	13.9	13.9	14.8	15.2	15.2	14.9	14.2	15.2	15.4	15.0	14.6	14.6
1976.....	14.0	13.9	13.2	13.6	13.2	14.1	14.1	14.3	13.5	14.0	13.9	14.1
1977.....	13.5	13.7	13.5	12.6	13.6	13.8	14.2	15.2	14.2	14.7	14.6	13.7
UNEMPLOYMENT RATE - BLACK WORKERS 16-19 YEARS												
1973.....	29.9	39.2	36.6	33.2	33.1	32.1	34.2	30.1	34.4	29.4	30.5	31.1
1974.....	31.0	31.4	34.1	32.0	33.7	34.1	39.9	32.2	34.9	35.7	40.1	39.5
1975.....	42.8	37.9	40.4	40.5	39.7	38.3	37.1	42.5	40.1	39.9	36.7	37.8
1976.....	37.0	36.9	37.4	37.8	40.6	42.5	38.6	42.0	39.7	40.0	39.3	38.8
1977.....	40.0	40.9	41.0	37.2	41.0	42.2	45.5	42.7	39.9	40.3	41.5	40.3
UNEMPLOYMENT RATE - BLACK WORKERS 20 YEARS AND OVER												
1973.....	6.9	7.0	7.1	7.3	7.2	7.3	7.4	7.1	7.0	6.8	7.0	6.6
1974.....	7.1	7.2	6.9	7.1	7.2	7.4	7.3	7.7	8.2	9.0	9.6	10.5
1975.....	11.1	11.4	12.2	12.6	12.7	12.5	12.0	12.7	12.9	12.5	12.4	12.3
1976.....	11.8	11.7	10.9	11.1	10.4	11.6	11.7	11.6	11.1	11.6	11.5	11.9
1977.....	11.1	11.3	11.1	10.5	11.2	11.0	11.0	12.4	11.7	12.2	11.9	11.0
UNEMPLOYMENT RATE - BLACK MALES												
1973.....	7.3	9.4	9.2	8.4	8.7	8.0	8.7	7.8	8.1	8.0	7.8	7.3
1974.....	8.2	8.6	9.1	8.7	8.5	9.6	9.0	9.5	10.6	10.7	11.8	12.6
1975.....	13.8	13.4	14.4	15.4	14.8	15.2	14.6	15.0	15.1	14.9	14.9	14.9
1976.....	13.8	13.6	12.9	13.0	12.9	13.8	13.5	13.5	13.1	13.8	14.2	14.0
1977.....	12.7	12.7	12.6	10.6	13.2	12.2	13.9	15.4	13.5	14.5	13.7	12.6
UNEMPLOYMENT RATE - BLACK MALES 16-19 YEARS												
1973.....	24.9	40.0	38.0	30.3	32.2	28.9	31.8	24.8	28.2	26.5	27.9	28.9
1974.....	28.1	28.5	32.7	30.2	28.0	34.5	35.3	32.5	36.4	32.2	38.2	38.0
1975.....	42.7	34.0	37.6	40.2	38.3	38.2	36.9	43.9	36.8	39.6	34.0	35.7
1976.....	34.8	35.3	33.9	33.6	39.8	41.3	36.0	38.7	39.3	39.0	36.9	37.7
1977.....	38.0	40.8	41.5	34.4	40.7	35.6	44.2	41.8	36.2	37.7	39.8	37.7
UNEMPLOYMENT RATE - BLACK MALES 20 YEARS AND OVER												
1973.....	5.6	5.5	5.8	6.1	6.3	5.9	6.4	6.1	5.9	6.0	5.7	5.1
1974.....	6.1	6.6	6.6	6.5	6.5	7.0	6.2	7.2	7.8	8.4	9.0	10.0
1975.....	10.9	11.3	12.1	12.8	12.4	12.8	12.4	12.5	13.2	12.5	13.1	13.0
1976.....	11.8	11.6	10.9	10.7	10.2	11.3	11.3	11.0	10.6	11.3	12.1	11.7
1977.....	10.5	10.2	10.0	8.6	10.6	9.9	10.6	12.5	11.2	12.1	10.9	10.0
UNEMPLOYMENT RATE - BLACK FEMALES												
1973.....	10.8	11.5	11.1	11.4	10.7	11.8	11.2	10.9	11.7	10.0	10.9	10.8
1974.....	10.6	10.2	9.8	10.2	11.1	10.4	12.0	10.3	10.9	12.5	13.1	13.7
1975.....	14.1	14.5	15.2	15.0	15.6	14.5	13.8	15.4	15.6	15.1	14.2	14.2
1976.....	14.3	14.3	13.6	14.3	13.5	14.5	14.7	15.2	14.0	14.3	13.6	14.2
1977.....	14.3	14.8	14.6	14.8	14.1	15.6	14.5	14.9	15.0	14.9	15.5	14.8
UNEMPLOYMENT RATE - BLACK FEMALES 16-19 YEARS												
1973.....	36.0	38.0	34.5	36.8	34.4	35.4	37.0	36.3	41.8	33.4	33.9	33.8
1974.....	34.8	35.0	36.0	34.5	40.7	33.7	45.7	31.8	32.9	40.2	42.6	41.6
1975.....	42.9	42.4	43.6	40.8	41.3	38.5	37.4	41.0	43.5	40.3	39.6	39.9
1976.....	39.6	38.7	41.0	43.1	41.5	43.8	41.7	45.8	40.2	41.4	42.1	40.2
1977.....	42.3	41.1	40.4	40.3	41.4	49.9	47.4	43.9	44.2	43.4	43.5	43.7
UNEMPLOYMENT RATE - BLACK FEMALES 20 YEARS AND OVER												
1973.....	8.5	8.8	8.8	8.8	8.4	9.0	8.5	8.3	8.4	7.7	8.6	8.5
1974.....	8.2	7.8	7.3	7.9	8.1	7.9	8.6	8.3	8.8	9.6	10.4	11.0
1975.....	11.2	11.6	12.4	12.3	13.0	12.2	11.5	12.9	12.7	12.5	11.6	11.4
1976.....	11.7	11.9	10.8	11.4	10.7	11.9	12.2	12.2	11.7	11.9	10.9	12.0
1977.....	11.8	12.6	12.4	12.6	11.9	12.2	11.6	12.3	12.2	12.3	13.0	12.1
UNEMPLOYMENT RATE - MARRIED WORKERS, SPOUSE PRESENT												
1973.....	3.2	3.2	3.1	3.1	3.0	3.0	2.9	3.1	3.0	2.9	3.0	3.1
1974.....	3.1	3.3	3.1	3.1	3.0	3.3	3.5	3.6	3.9	3.8	4.4	4.9
1975.....	5.7	5.8	6.2	6.6	6.8	6.4	6.2	6.1	6.1	6.0	5.8	5.6
1976.....	5.2	5.2	5.1	5.0	5.1	5.3	5.4	5.4	5.4	5.4	5.4	5.3
1977.....	4.8	5.0	4.9	4.7	4.7	4.6	4.5	4.6	4.4	4.6	4.5	4.3
UNEMPLOYMENT RATE - MARRIED MEN, SPOUSE PRESENT												
1973.....	2.4	2.4	2.4	2.3	2.3	2.2	2.1	2.2	2.1	2.2	2.2	2.3
1974.....	2.3	2.4	2.3	2.4	2.2	2.5	2.6	2.8	2.8	3.0	3.4	3.8
1975.....	4.5	4.7	5.1	5.4	5.7	5.5	5.4	5.2	5.4	5.2	4.9	4.8
1976.....	4.2	4.2	4.2	4.1	4.1	4.3	4.4	4.2	4.4	4.3	4.4	4.2
1977.....	3.8	4.1	3.8	3.7	3.6	3.4	3.4	3.5	3.3	3.6	3.3	3.2
UNEMPLOYMENT RATE - MARRIED WOMEN, SPOUSE PRESENT												
1973.....	4.8	4.8	4.6	4.6	4.6	4.6	4.6	5.0	4.7	4.3	4.6	4.7
1974.....	4.8	5.0	4.7	4.5	4.7	4.8	5.1	5.3	5.8	5.4	6.5	7.1
1975.....	8.0	7.9	8.4	8.6	8.8	8.2	7.7	7.6	7.6	7.6	7.4	7.3
1976.....	7.1	7.1	6.8	6.9	6.9	7.1	7.4	7.5	7.2	7.3	7.1	7.1
1977.....	6.5	6.8	6.8	6.6	6.5	6.8	6.5	6.5	6.4	6.3	6.5	6.2

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYMENT RATE - WOMEN WHO HEAD FAMILIES												
1973.....	7.0	6.5	6.9	6.9	6.7	8.0	7.0	6.5	6.7	7.0	8.0	7.0
1974.....	6.6	6.4	6.4	6.5	7.1	6.6	6.2	6.5	7.3	7.2	8.5	8.3
1975.....	8.8	9.6	9.8	9.5	10.7	10.2	10.5	9.9	9.6	10.4	10.0	10.4
1976.....	10.3	10.1	9.4	9.6	9.3	9.6	10.2	10.6	10.3	10.5	9.7	10.3
1977.....	9.1	9.3	9.6	9.4	9.1	9.4	9.3	10.0	10.0	9.3	9.3	8.1
UNEMPLOYMENT RATE - FULL-TIME WORKERS												
1973.....	4.5	4.5	4.4	4.4	4.3	4.2	4.2	4.3	4.3	4.1	4.3	4.4
1974.....	4.5	4.6	4.5	4.6	4.6	4.7	5.0	4.9	5.3	5.6	6.1	6.6
1975.....	7.6	7.7	8.1	8.5	8.8	8.5	8.4	8.1	8.3	8.3	8.0	7.8
1976.....	7.4	7.2	7.1	7.1	7.0	7.3	7.2	7.4	7.4	7.4	7.3	7.4
1977.....	6.9	6.9	6.8	6.6	6.6	6.5	6.5	6.6	6.4	6.4	6.2	5.9
UNEMPLOYMENT RATE - FULL-TIME WORKERS 16-19 YEARS												
1973.....	14.7	15.4	14.7	15.4	14.6	11.4	13.5	13.6	14.8	14.6	16.0	15.2
1974.....	15.4	15.3	15.5	14.9	15.4	15.7	17.0	15.5	17.4	17.9	18.5	18.2
1975.....	21.0	20.8	21.8	21.9	22.2	23.4	22.8	22.6	21.3	21.2	20.5	21.3
1976.....	21.2	19.8	20.2	21.5	19.9	20.4	17.6	21.3	20.9	20.7	19.7	20.0
1977.....	18.9	19.8	18.8	19.3	18.4	17.9	17.6	18.1	17.9	17.4	17.9	16.4
UNEMPLOYMENT RATE - FULL-TIME MALES 20 YEARS AND OVER												
1973.....	3.2	3.3	3.2	3.1	3.2	3.1	2.9	3.0	2.9	2.8	2.9	3.0
1974.....	3.2	3.3	3.2	3.4	3.2	3.3	3.5	3.7	3.8	4.2	4.4	5.1
1975.....	5.9	6.1	6.6	6.9	7.1	7.0	7.0	6.7	7.1	6.9	6.6	6.3
1976.....	5.8	5.6	5.5	5.4	5.5	5.9	5.9	5.8	5.9	5.9	6.0	5.9
1977.....	5.5	5.6	5.3	5.0	5.1	4.9	5.0	5.1	4.8	5.0	4.5	4.3
UNEMPLOYMENT RATE - FULL-TIME FEMALES 20 YEARS AND OVER												
1973.....	5.0	4.9	4.8	4.9	4.6	4.9	4.8	4.9	4.9	4.5	4.8	5.0
1974.....	5.0	5.0	4.9	4.9	5.2	5.2	5.4	5.3	5.9	5.8	6.8	7.3
1975.....	8.1	8.2	8.5	8.9	9.4	8.5	8.5	8.0	8.2	8.3	8.2	8.0
1976.....	7.8	7.7	7.5	7.4	7.3	7.6	7.8	7.8	7.8	7.8	7.7	7.8
1977.....	7.2	7.1	7.2	7.1	7.1	7.2	7.1	7.3	7.3	7.0	7.1	6.8
UNEMPLOYMENT RATE - PART-TIME WORKERS												
1973.....	7.3	7.7	7.6	8.4	8.2	8.7	8.5	8.0	7.9	7.7	7.5	7.7
1974.....	7.9	8.2	7.9	7.7	8.4	8.6	8.5	8.5	9.2	8.9	9.5	9.8
1975.....	10.3	10.1	10.7	10.5	10.7	10.1	9.8	10.5	10.2	10.5	10.1	10.6
1976.....	10.2	10.3	10.0	10.7	10.1	9.0	10.8	10.1	9.8	10.3	10.4	9.9
1977.....	10.1	10.6	10.9	9.9	9.9	10.5	9.3	9.0	9.7	9.6	9.6	8.9
UNEMPLOYMENT RATE - PART-TIME WORKERS 16-19 YEARS												
1973.....	12.6	14.5	13.7	16.1	15.3	16.8	15.7	14.6	14.2	14.2	13.9	13.8
1974.....	14.0	14.2	14.4	14.1	15.2	16.1	16.4	14.1	16.4	16.2	17.1	17.9
1975.....	18.0	17.6	18.1	18.1	17.9	16.7	17.2	18.1	17.4	18.2	17.4	17.8
1976.....	17.8	18.5	17.8	17.7	17.1	15.0	18.0	17.0	16.2	17.1	18.5	17.8
1977.....	18.7	17.1	19.1	17.2	17.5	18.5	16.2	15.9	18.4	17.3	16.6	14.5
UNEMPLOYMENT RATE - PART-TIME MALES 20 YEARS AND OVER												
1973.....	5.3	5.1	5.1	7.2	5.9	6.6	7.0	6.7	6.9	6.1	5.4	6.5
1974.....	6.6	7.0	5.8	5.9	6.0	7.3	6.1	8.0	7.0	6.8	7.2	7.8
1975.....	7.3	7.7	8.5	8.6	10.4	8.2	8.3	8.6	9.2	9.2	9.1	8.8
1976.....	9.1	8.6	9.2	10.2	8.7	8.7	8.8	8.5	8.1	8.7	8.3	8.2
1977.....	8.9	9.0	8.4	8.4	9.0	8.4	7.6	7.5	6.7	7.3	7.4	8.0
UNEMPLOYMENT RATE - PART-TIME FEMALES 20 YEARS AND OVER												
1973.....	5.3	4.8	5.0	4.3	5.0	5.1	5.4	4.8	4.7	4.6	4.6	4.6
1974.....	4.9	5.2	5.0	4.8	5.4	4.8	5.1	5.7	5.8	5.5	6.1	5.9
1975.....	6.9	6.6	7.2	6.9	6.7	7.1	6.3	6.9	6.4	6.6	6.3	7.1
1976.....	6.4	6.4	6.1	6.9	6.7	5.6	7.3	6.7	6.8	7.1	6.7	6.1
1977.....	6.0	7.6	7.2	6.5	6.1	6.9	6.1	5.6	6.0	6.2	6.5	6.3
UNEMPLOYMENT RATE - WHITE-COLLAR WORKERS												
1973.....	3.0	3.0	3.0	3.1	2.8	3.0	2.9	3.0	3.0	2.7	2.8	3.1
1974.....	3.1	3.1	2.9	2.9	3.1	3.2	3.3	3.2	3.6	3.3	3.8	4.1
1975.....	4.4	4.4	4.6	4.8	5.3	4.9	4.8	4.6	4.8	4.8	4.8	4.8
1976.....	4.6	4.5	4.6	4.7	4.5	4.5	4.8	4.9	4.5	4.5	4.6	4.5
1977.....	4.5	4.6	4.7	4.4	4.3	4.2	4.1	4.2	4.2	4.1	4.2	4.0
UNEMPLOYMENT RATE - PROFESSIONAL AND TECHNICAL WORKERS												
1973.....	2.1	2.0	2.3	2.1	2.0	2.3	1.9	2.2	2.3	2.2	2.0	2.3
1974.....	2.3	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.6	2.4	2.5	2.6
1975.....	2.9	3.0	3.0	3.2	3.5	3.3	3.5	3.0	3.4	3.3	3.5	3.2
1976.....	3.0	3.4	3.6	3.2	3.1	3.0	3.2	3.1	3.1	3.2	3.3	3.3
1977.....	3.3	3.2	3.2	3.2	2.9	3.0	2.9	3.0	3.0	3.0	2.9	2.8
UNEMPLOYMENT RATE - MANAGERS AND ADMINISTRATORS, EXCEPT FARM												
1973.....	1.5	1.6	1.3	1.5	1.4	1.4	1.5	1.3	1.3	1.5	1.3	1.4
1974.....	1.6	1.7	1.6	1.6	1.7	1.8	1.4	1.9	2.1	1.9	2.3	2.6
1975.....	3.1	2.7	2.9	3.2	3.2	3.0	2.9	3.0	3.4	3.0	2.9	3.0
1976.....	2.9	3.0	2.9	2.8	3.1	3.1	3.4	3.4	3.3	3.0	3.1	3.1
1977.....	3.0	2.9	3.4	2.9	2.7	2.7	2.6	2.5	2.5	2.6	3.0	2.5

HOUSEHOLD DATA SEASONALLY ADJUSTED

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYMENT RATE - SALES WORKERS												
1973.....	3.7	3.7	3.6	4.0	3.6	3.5	3.7	3.8	3.7	3.1	3.3	4.2
1974.....	3.7	4.2	3.9	3.4	4.2	4.6	4.1	3.7	4.3	4.6	4.9	5.6
1975.....	5.3	5.4	6.0	6.0	6.0	6.1	5.1	5.8	5.9	6.0	6.0	6.2
1976.....	6.0	5.3	5.1	5.1	5.0	5.3	5.4	5.8	5.5	5.4	5.6	5.1
1977.....	5.6	5.6	5.5	5.3	5.5	5.3	5.4	5.2	5.1	5.0	4.9	4.7
UNEMPLOYMENT RATE - CLERICAL WORKERS												
1973.....	4.3	4.3	4.2	4.5	3.9	4.2	4.1	4.2	4.2	3.6	4.2	4.3
1974.....	4.3	4.4	4.0	4.1	4.3	4.4	5.0	4.5	5.0	4.4	5.3	5.4
1975.....	6.1	6.0	6.4	6.5	7.7	6.7	6.7	6.5	6.5	6.8	6.4	6.7
1976.....	6.4	6.1	6.2	7.0	6.4	6.2	6.6	7.0	6.2	6.2	6.3	6.1
1977.....	6.0	6.4	6.3	6.0	5.8	5.8	5.4	5.8	6.0	5.7	5.7	5.5
UNEMPLOYMENT RATE - BLUE-COLLAR WORKERS												
1973.....	5.4	5.4	5.3	5.1	5.3	5.3	5.4	5.4	5.4	5.3	5.5	5.3
1974.....	5.7	5.9	5.9	6.0	5.7	6.2	6.4	6.7	7.2	7.5	8.3	9.6
1975.....	10.7	10.7	12.1	12.6	12.9	12.6	12.3	11.8	11.9	11.4	11.0	10.6
1976.....	9.5	9.4	9.2	9.0	9.0	9.4	9.6	9.7	9.8	9.5	9.4	9.6
1977.....	8.5	8.8	8.5	7.9	8.0	7.8	8.1	8.3	7.8	8.0	7.6	7.2
UNEMPLOYMENT RATE - CRAFT AND KINDRED WORKERS												
1973.....	3.8	3.8	3.8	3.7	3.7	3.5	3.8	3.8	3.7	3.6	3.8	3.3
1974.....	3.9	3.9	3.6	3.8	3.7	4.0	4.0	4.4	4.9	5.2	5.1	6.5
1975.....	7.3	6.5	8.6	8.7	9.2	9.0	9.1	8.4	8.7	8.6	7.9	7.2
1976.....	7.0	6.8	6.8	7.0	6.3	7.0	7.1	6.9	6.9	6.7	6.9	6.9
1977.....	6.3	6.5	6.1	5.0	5.6	5.5	5.5	5.5	5.1	5.4	5.2	5.2
UNEMPLOYMENT RATE - OPERATIVES, EXCEPT TRANSPORT												
1973.....	6.1	6.0	5.8	5.8	6.0	6.1	6.3	6.3	6.4	6.4	6.3	6.2
1974.....	6.9	7.0	7.3	7.1	6.9	7.3	7.5	8.3	8.7	9.2	10.9	12.2
1975.....	13.7	14.6	15.6	16.3	16.3	15.9	15.3	14.6	14.2	13.3	13.0	12.9
1976.....	10.5	10.7	10.5	10.1	10.8	10.8	11.0	11.1	11.2	11.2	10.9	11.1
1977.....	9.3	9.8	9.5	9.5	9.1	9.4	10.1	9.8	9.9	9.8	9.3	8.5
UNEMPLOYMENT RATE - TRANSPORT EQUIPMENT OPERATIVES												
1973.....	3.9	4.8	4.1	3.1	4.5	4.4	4.2	4.0	3.3	3.7	4.0	4.6
1974.....	4.3	4.4	4.8	4.9	4.8	5.2	4.9	4.7	5.2	5.6	6.3	6.1
1975.....	7.3	7.8	7.6	8.6	8.9	8.4	8.6	9.1	9.6	9.2	8.8	8.7
1976.....	8.5	7.6	7.8	6.7	6.7	7.4	8.0	7.9	7.9	7.9	8.0	7.7
1977.....	7.2	7.6	7.1	6.5	7.0	5.9	7.3	7.5	5.7	6.1	5.3	5.6
UNEMPLOYMENT RATE - NONFARM LABORERS												
1973.....	8.5	8.6	8.4	8.3	8.4	8.7	8.3	8.3	8.4	8.2	9.0	8.4
1974.....	8.4	9.1	8.9	9.9	8.4	9.8	10.7	10.4	10.6	10.8	11.4	13.2
1975.....	14.3	14.1	16.1	16.3	16.8	16.5	16.2	15.9	15.8	16.1	15.3	14.8
1976.....	14.3	14.0	13.2	13.0	13.4	13.4	13.4	14.4	14.8	13.6	13.1	13.9
1977.....	13.0	12.9	13.2	12.6	12.3	11.6	10.8	12.4	11.3	11.8	11.9	10.6
UNEMPLOYMENT RATE - SERVICE WORKERS												
1973.....	5.6	6.1	6.0	6.1	5.7	5.2	5.6	5.5	5.7	5.1	5.8	6.1
1974.....	5.6	6.0	5.9	5.9	6.6	6.0	6.4	6.2	6.5	6.5	6.9	7.1
1975.....	7.9	7.7	8.4	8.4	8.6	8.6	8.6	9.3	8.9	8.9	8.6	9.1
1976.....	9.0	8.9	8.7	8.5	8.0	8.6	8.7	8.5	8.8	9.2	9.2	8.8
1977.....	8.6	8.5	8.1	8.3	8.8	8.3	7.8	8.3	7.9	8.1	7.8	7.8
UNEMPLOYMENT RATE - PRIVATE HOUSEHOLD WORKERS												
1973.....	3.6	4.1	4.6	5.1	4.7	5.5	3.2	4.4	4.3	4.4	4.5	4.7
1974.....	4.8	4.3	4.3	4.1	4.0	4.3	4.6	4.0	4.3	4.4	5.0	4.2
1975.....	4.6	4.7	4.9	4.7	5.8	3.3	5.1	6.1	7.0	6.0	5.8	7.1
1976.....	5.9	7.0	6.1	5.8	5.4	5.4	5.5	5.9	3.5	6.1	6.2	5.4
1977.....	5.4	5.3	5.4	4.9	6.0	5.3	5.0	4.3	4.5	4.5	4.8	4.4
UNEMPLOYMENT RATE - OTHER SERVICE WORKERS												
1973.....	5.8	6.4	6.2	6.2	5.9	5.2	5.9	5.7	5.9	5.2	6.0	6.3
1974.....	5.7	6.2	6.1	6.1	6.9	6.2	6.6	6.5	6.7	6.8	7.1	7.4
1975.....	8.2	8.0	8.7	8.8	8.9	9.2	8.9	9.6	9.1	9.2	8.9	9.3
1976.....	9.3	9.1	9.0	8.7	8.3	8.9	9.0	8.7	9.3	9.5	9.5	9.2
1977.....	9.0	8.8	8.3	8.6	9.1	8.6	8.1	8.7	8.2	8.4	8.1	8.1
UNEMPLOYMENT RATE - FARM WORKERS												
1973.....	2.5	2.6	2.2	2.8	3.2	2.6	2.1	2.6	2.5	2.6	2.5	2.4
1974.....	2.0	2.2	2.5	2.4	2.5	2.7	3.2	2.8	2.7	2.7	2.7	2.4
1975.....	3.7	3.1	3.5	3.5	3.1	3.2	3.1	4.0	3.7	3.9	3.8	4.1
1976.....	4.1	3.9	4.3	4.5	4.6	4.1	4.8	3.9	4.0	4.3	5.1	6.0
1977.....	4.6	6.4	5.0	4.7	4.4	4.8	4.2	4.0	4.7	4.4	4.1	3.9
UNEMPLOYMENT RATE - FARM LABORERS AND SUPERVISORS												
1973.....	5.3	5.4	4.7	5.9	6.7	5.4	4.1	5.5	5.4	5.3	5.1	5.0
1974.....	4.0	4.4	5.0	4.7	4.4	5.2	6.4	5.7	5.4	5.5	5.2	4.9
1975.....	7.3	6.7	7.2	7.7	6.4	6.7	6.3	8.0	7.6	7.8	8.0	8.4
1976.....	8.3	7.7	8.3	8.6	9.5	8.4	9.4	7.9	7.9	8.7	10.2	11.3
1977.....	9.2	12.5	9.9	9.4	8.6	9.3	8.2	7.7	9.1	8.6	8.0	7.8

HOUSEHOLD DATA
SEASONALLY ADJUSTED

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYMENT RATE - TOTAL WAGE AND SALARY WORKERS												
1973.....	4.5	4.6	4.5	4.6	4.5	4.4	4.4	4.5	4.5	4.3	4.5	4.6
1974.....	4.7	4.8	4.7	4.8	4.8	5.0	5.1	5.2	5.6	5.7	6.3	6.9
1975.....	7.7	7.7	8.2	8.6	9.0	8.6	8.4	8.3	8.3	8.2	8.0	8.0
1976.....	7.6	7.3	7.2	7.2	7.1	7.2	7.5	7.5	7.3	7.4	7.4	7.4
1977.....	7.0	7.1	6.9	6.6	6.7	6.5	6.4	6.5	6.3	6.5	6.3	6.0
UNEMPLOYMENT RATE - WAGE AND SALARY WORKERS IN AGRICULTURAL INDUSTRIES												
1973.....	6.7	7.2	6.5	7.3	8.8	6.8	5.5	7.3	6.4	6.7	7.4	6.6
1974.....	6.6	6.8	6.9	7.1	6.9	7.3	8.3	7.3	7.3	8.2	7.5	7.6
1975.....	10.6	9.0	10.5	11.1	9.2	10.1	9.1	11.2	11.0	10.9	10.2	11.6
1976.....	11.2	10.7	10.9	11.3	12.5	11.0	12.3	10.9	11.3	11.4	13.4	13.3
1977.....	12.7	13.3	12.6	12.1	11.5	10.9	10.2	9.8	10.4	10.3	9.3	9.6
UNEMPLOYMENT RATE - WAGE AND SALARY WORKERS IN NONAGRICULTURAL INDUSTRIES												
1973.....	4.5	4.6	4.5	4.6	4.4	4.4	4.4	4.4	4.5	4.2	4.5	4.5
1974.....	4.7	4.8	4.6	4.8	4.8	5.0	5.1	5.1	5.5	5.6	6.3	6.9
1975.....	7.7	7.7	8.2	8.6	9.0	8.6	8.4	8.2	8.3	8.2	8.0	7.9
1976.....	7.5	7.3	7.1	7.2	7.0	7.2	7.4	7.4	7.2	7.3	7.3	7.3
1977.....	6.9	7.0	6.8	6.5	6.6	6.4	6.3	6.5	6.3	6.4	6.3	5.9
UNEMPLOYMENT RATE - GOVERNMENT WAGE AND SALARY WORKERS IN NONAGRICULTURAL INDUSTRIES												
1973.....	2.4	2.6	2.6	3.3	2.6	2.7	2.8		2.7	2.9	2.6	2.6
1974.....	2.6	2.8	2.8	2.9	3.3	2.9	2.9	2.9	3.1	3.1	3.5	3.3
1975.....	3.5	3.5	3.8	3.7	4.6	4.0	4.1	4.0	4.3	4.3	3.9	4.4
1976.....	4.3	4.3	4.5	4.9	4.6	4.3	4.5	4.4	4.0	4.4	4.2	4.3
1977.....	4.3	4.4	4.1	4.1	4.0	4.2	3.9	4.3	4.1	4.1	4.3	4.3
UNEMPLOYMENT RATE - PRIVATE WAGE AND SALARY WORKERS IN NONAGRICULTURAL INDUSTRIES												
1973.....	5.0	5.0	4.9	4.9	4.8	4.7	4.7	4.8	4.8	4.6	4.9	5.0
1974.....	5.1	5.2	5.0	5.2	5.1	5.4	5.5	5.6	6.1	6.2	6.9	7.7
1975.....	8.6	8.6	9.2	9.2	10.0	9.7	9.4	9.2	9.2	9.1	8.9	8.7
1976.....	8.2	7.9	7.7	7.7	7.6	7.8	8.0	8.1	8.0	8.0	8.0	7.9
1977.....	7.5	7.6	7.4	7.1	7.2	6.9	6.9	7.0	6.8	6.9	6.7	6.3
UNEMPLOYMENT RATE - PRIVATE WAGE AND SALARY WORKERS IN CONSTRUCTION												
1973.....	9.4	9.3	8.9	9.1	8.7	7.9	9.1	8.3	8.9	8.9	8.9	8.3
1974.....	9.5	8.4	8.6	9.9	9.4	9.8	10.1	10.9	11.6	12.1	13.6	15.4
1975.....	15.9	16.5	18.0	19.2	21.2	19.7	19.4	19.2	19.5	18.0	17.4	17.0
1976.....	15.8	15.8	15.9	15.4	14.3	16.1	16.6	16.6	15.7	14.9	15.3	14.4
1977.....	15.1	15.2	14.2	12.2	12.8	12.3	11.8	11.4	10.4	12.1	11.2	10.8
UNEMPLOYMENT RATE - PRIVATE WAGE AND SALARY WORKERS IN MANUFACTURING												
1973.....	4.7	4.3	4.4	4.2	4.4	4.4	4.0	4.2	4.4	4.0	4.4	4.4
1974.....	4.8	5.1	4.9	4.9	4.7	5.2	5.4	5.7	6.1	6.5	7.5	8.7
1975.....	10.3	10.7	11.2	11.9	12.2	12.1	11.5	10.9	10.8	10.3	10.0	9.2
1976.....	8.4	8.0	7.5	7.7	7.6	7.7	7.8	8.0	7.9	7.9	7.8	8.1
1977.....	7.1	7.2	6.7	6.7	6.5	6.4	6.7	6.9	7.0	6.8	6.5	5.7
UNEMPLOYMENT RATE - PRIVATE WAGE AND SALARY WORKERS IN DURABLE GOODS												
1973.....	4.3	4.0	4.1	3.7	3.9	3.6	3.5	3.7	4.2	3.9	3.8	4.0
1974.....	4.5	4.8	4.7	4.7	4.4	4.7	4.9	5.1	5.4	6.3	7.2	8.6
1975.....	10.3	10.6	11.1	12.3	12.6	12.8	12.2	11.7	11.5	10.7	10.4	9.5
1976.....	8.5	7.9	7.7	7.6	7.6	7.6	7.4	7.5	7.4	7.8	7.3	7.9
1977.....	6.7	6.9	6.3	6.1	5.9	5.7	6.1	6.3	6.4	6.1	6.0	5.6
UNEMPLOYMENT RATE - PRIVATE WAGE AND SALARY WORKERS IN NONDURABLE GOODS												
1973.....	5.3	4.8	4.8	5.1	5.2	5.4	4.7	4.8	4.6	4.2	5.3	4.9
1974.....	5.1	5.4	5.3	5.1	5.2	5.9	6.2	6.6	7.1	6.8	7.9	9.0
1975.....	10.2	10.7	11.4	11.3	11.7	11.1	10.6	9.6	9.6	9.7	9.5	8.9
1976.....	8.2	8.1	7.1	7.7	7.7	8.0	8.4	8.7	8.6	8.2	8.6	8.4
1977.....	7.6	7.5	7.4	7.7	7.2	7.4	7.5	7.7	7.9	7.8	7.2	5.9
UNEMPLOYMENT RATE - PRIVATE WAGE AND SALARY WORKERS IN TRANSPORTATION AND PUBLIC UTILITIES												
1973.....	2.9	3.1	3.1	2.7	2.9	3.5	2.7	2.9	2.8	3.0	3.3	3.2
1974.....	3.0	3.0	2.8	3.1	2.9	3.2	3.4	3.5	3.3	3.4	3.6	4.2
1975.....	5.9	5.2	5.6	6.5	6.2	5.8	5.5	5.6	5.7	5.5	4.8	5.1
1976.....	5.0	4.8	4.5	4.3	5.2	5.2	5.2	4.7	5.3	5.4	5.6	5.1
1977.....	4.8	4.7	5.1	4.5	4.4	4.3	4.7	4.8	4.8	4.8	4.7	4.9
UNEMPLOYMENT RATE - PRIVATE WAGE AND SALARY WORKERS IN WHOLESALE AND RETAIL TRADE												
1973.....	5.5	6.0	5.4	5.7	5.6	5.4	5.9	5.9	5.6	5.2	5.5	5.9
1974.....	5.8	6.0	5.8	5.9	6.3	6.4	6.5	6.1	6.7	6.9	7.1	7.9
1975.....	8.2	8.0	8.6	9.1	8.9	8.7	8.6	8.7	8.9	8.9	9.1	9.3
1976.....	8.7	8.5	8.6	8.5	8.2	8.5	8.7	8.8	8.9	8.7	8.9	8.2
1977.....	8.4	8.7	8.3	7.9	8.3	8.0	7.9	8.1	7.6	7.9	7.4	7.3
UNEMPLOYMENT RATE - PRIVATE WAGE AND SALARY WORKERS IN FINANCE AND SERVICE INDUSTRIES												
1973.....	4.3	4.4	4.5	4.4	4.1	4.2	4.1	4.3	4.1	4.1	4.3	4.5
1974.....	4.3	4.6	4.3	4.3	4.2	4.4	4.5	4.6	5.0	4.7	5.4	5.5
1975.....	6.1	6.2	6.5	6.6	7.0	6.6	6.6	6.3	6.6	7.0	6.8	6.9
1976.....	6.9	6.6	6.2	6.3	6.3	6.4	6.5	6.6	6.4	6.5	6.7	6.9
1977.....	6.2	6.2	6.4	6.2	6.5	6.0	5.7	5.7	5.7	5.7	6.0	5.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNEMPLOYMENT RATE - VETERANS 20-34 YEARS												
1973.....	5.2	5.0	5.3	5.4	5.2	5.2	5.0	5.2	5.3	4.6	3.9	4.3
1974.....	4.9	4.9	5.0	5.1	4.8	4.9	5.0	5.1	5.5	5.7	6.1	7.5
1975.....	8.5	8.6	9.1	10.0	9.5	9.2	9.6	9.5	9.3	9.3	9.6	9.8
1976.....	8.0	8.1	7.4	7.2	7.4	8.4	8.3	7.6	8.7	8.3	8.0	8.1
1977.....	7.6	7.2	7.1	7.6	7.5	7.6	7.8	7.7	7.4	7.1	6.8	5.6
UNEMPLOYMENT RATE - VETERANS 20-24 YEARS												
1973.....	8.4	9.3	9.2	9.1	8.8	9.9	9.2	9.5	8.2	8.3	7.5	7.7
1974.....	9.8	9.4	9.3	9.5	10.3	9.6	10.3	11.6	12.5	11.7	13.1	15.5
1975.....	18.0	17.1	18.2	23.9	21.5	18.7	18.8	18.6	19.3	21.0	22.9	20.4
1976.....	18.0	18.1	16.2	16.3	15.6	18.8	20.8	16.2	18.2	18.4	16.3	16.7
1977.....	16.5	16.2	17.4	15.5	13.8	17.7	16.8	17.7	18.9	15.3	14.1	11.8
UNEMPLOYMENT RATE - VETERANS 25-29 YEARS												
1973.....	4.1	3.1	3.7	4.2	4.2	3.6	3.9	4.1	4.4	3.4	2.7	3.4
1974.....	3.6	3.8	4.1	4.3	3.7	4.2	4.2	3.8	4.3	4.9	5.0	6.4
1975.....	6.8	7.2	7.9	7.3	7.4	7.8	8.6	8.7	8.2	8.0	8.1	9.3
1976.....	7.1	7.3	6.8	6.5	6.9	7.6	6.8	7.3	8.0	7.6	8.1	8.3
1977.....	7.9	7.0	6.8	7.9	8.0	7.1	7.1	6.5	6.1	6.6	6.4	6.1
UNEMPLOYMENT RATE - VETERANS 30-34 YEARS												
1973.....	2.5	2.9	3.1	2.6	2.1	2.4	2.0	2.2	3.7	2.9	2.6	2.9
1974.....	2.8	2.5	2.8	2.6	2.4	2.5	2.3	2.6	2.6	2.4	3.3	4.0
1975.....	5.7	5.8	5.6	6.6	6.3	6.3	6.2	6.1	5.9	5.4	5.5	5.4
1976.....	5.1	4.7	4.5	4.0	4.8	5.2	5.1	4.7	5.8	5.3	4.7	4.7
1977.....	3.8	4.1	3.7	4.5	4.9	4.5	5.3	5.5	4.8	5.0	4.8	3.7
UNEMPLOYMENT RATE - NONVETERANS 20-34 YEARS												
1973.....	5.1	5.1	5.1	4.9	5.1	4.8	4.8	4.9	4.9	4.4	4.7	4.7
1974.....	5.2	5.3	5.3	5.6	5.4	5.5	5.6	6.2	6.0	6.8	7.5	8.1
1975.....	8.7	9.4	10.1	10.3	10.5	10.3	10.5	9.7	10.7	9.9	9.8	8.8
1976.....	8.9	8.3	8.2	8.2	8.0	8.2	8.7	8.6	8.3	8.6	9.1	8.8
1977.....	8.2	8.5	7.9	7.5	7.3	7.1	7.5	7.8	7.1	7.3	6.9	6.9
UNEMPLOYMENT RATE - NONVETERANS 20-24 YEARS												
1973.....	7.4	7.1	6.7	7.1	7.1	6.8	6.6	6.6	6.9	6.2	6.7	6.8
1974.....	7.2	7.8	7.3	7.2	7.6	7.8	7.9	8.8	8.5	8.9	10.0	10.5
1975.....	11.6	12.7	13.9	14.2	14.3	13.3	14.5	13.7	14.8	13.6	12.9	12.1
1976.....	12.2	11.0	11.4	11.0	10.9	11.0	10.9	11.2	10.8	11.7	11.8	11.9
1977.....	10.7	11.4	10.4	10.2	10.3	9.3	9.8	10.4	9.4	9.3	9.3	9.4
UNEMPLOYMENT RATE - NONVETERANS 25-29 YEARS												
1973.....	4.1	4.2	5.1	4.0	4.5	4.1	4.6	4.7	4.3	3.9	4.1	4.1
1974.....	4.0	4.0	4.3	5.3	4.7	4.4	4.1	4.4	4.2	6.0	6.5	7.3
1975.....	7.0	8.1	8.4	8.0	8.6	9.4	8.6	8.0	8.7	7.7	7.5	6.8
1976.....	7.1	6.5	6.1	6.8	6.3	6.5	8.2	7.8	7.1	7.3	7.8	7.2
1977.....	7.6	7.3	7.1	6.3	5.6	6.4	6.6	6.5	5.9	6.4	5.5	5.2
UNEMPLOYMENT RATE - NONVETERANS 30-34 YEARS												
1973.....	2.5	3.2	2.7	2.4	2.6	2.3	2.2	2.3	2.3	2.2	2.3	2.1
1974.....	3.2	2.7	3.0	3.3	2.5	3.0	3.5	3.7	3.6	4.0	4.3	5.1
1975.....	5.5	5.1	5.5	6.2	5.9	6.2	5.9	4.6	6.0	5.8	7.1	5.3
1976.....	5.2	5.4	5.0	4.9	5.1	5.2	5.1	4.9	5.2	4.8	5.9	5.0
1977.....	4.4	4.7	4.4	4.2	4.3	4.1	4.6	4.8	4.7	4.9	4.5	4.5

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, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 56,000 households, representing 614 areas in 1,113 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

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

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

Data from these two sources differ from each other because of differences in definition and coverage, sources of information, methods of collection, and estimating procedures. Sampling variability and response errors are additional reasons for discrepancies. The major factors which have a differential effect on levels and trends of the two series are as follows.

Employment

Coverage. The household survey definition of employment comprises wage and salary workers (including domestics and other private household workers), self-employed persons, and unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises. Employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of non-agricultural 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 employers. In the household survey data, all persons with a job but not at work are excluded from the hours distributions and the computations of average hours. In the payroll survey, 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, domestic service, self-employment, unpaid family work, and religious organizations). Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

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

For an examination of the similarities and differences between State insured unemployment and total unemployment, see "Measuring Total and State Insured Unemployment" by Gloria P. Green in the June 1971 issue of the *Monthly Labor Review*. 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 terms 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, and churches are not covered by unemployment insurance whereas these are included in BLS establishment statistics. Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

Household data

(A tables)

COLLECTION COVERAGE

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

These monthly surveys of the population are conducted with a scientifically selected sample designed to represent the civilian noninstitutional population. Respondents are interviewed to obtain information about the employment status of each member of the household 16 years of age and over. Separate statistics are also collected and published for 14 and 15 year olds. The inquiry relates to activity or status during the calendar week, Sunday through Saturday, which includes the 12th of the month. This is known as the survey week. Actual field interviewing is conducted in the following week.

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

Each month, 56,000 occupied units are eligible for interview. About 2,500 of these households are visited but interviews are not obtained because the occupants are not found at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of about 3 to 5 percent. In addition to the 56,000 occupied units, there are 9,500 sample units in an average month which are visited but found to be vacant or otherwise not to be enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from 1 month to the next and one-half to be common with the same month a year earlier.

Beginning in September 1975, the sample was enlarged by 9,000

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

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 were waiting to be called back to a job from which they had been laid off; or (b) were waiting to report to a new wage or salary job within 30 days.

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

Unemployed persons by reasons for unemployment are divided into four major groups. (1) Job losers are persons whose employment ended involuntarily who immediately began looking for work and persons on layoff. (2) Job leavers are persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work. (3) Reentrants are persons who previously worked at a full-time job lasting 2 weeks or longer but were out of the labor 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 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.

Employment-population ratios represent the proportion of the total noninstitutional population that is employed. This measure can also be computed as a ratio of employment and the civilian noninstitutional population.

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-hour 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 nonwhite groups. The term "black" is used in this volume when the relevant data are provided exclusively for the black population.

Hispanic origin refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican living on the mainland, Cuban, Central or South American or other Hispanic 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 activity are published every month in table A-7 for 16-21 year-olds by employment status, race, and sex, and, if unemployed, whether seeking full- or part-time work.

Vietnam-era veterans are those who served in the Armed Forces of the United States between August 5, 1964, and May 7, 1975.

Tables for veterans in this volume are limited to males in the civilian noninstitutional population; i.e., veterans in institutions and females are excluded.

Nonveterans are males who never served in the Armed Forces.

Poverty areas classification consists of all Census geographical divisions in which 20 percent or more of the residents were poor according to the 1970 Decennial Census. Persons were classified as poor or nonpoor by using income thresholds adopted by a Federal interagency committee in 1969. These thresholds vary by family size, composition, and residence (farm-nonfarm). While poverty areas have a substantial concentration of low-income residents, many poor persons live outside these areas and, conversely, the areas include many people who are not poor.

The *metropolitan areas* classification consists of the total of all areas encompassed by Standard Metropolitan Statistical Areas (SMSA's). The metropolitan area total is based on the number of SMSA's as defined in the 1970 Decennial Census and does not include any subsequent additions or changes. Nonmetropolitan areas refer to the total of all areas outside SMSA's. The nonmetropolitan total is disaggregated into farm and nonfarm components.

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 jobseeking 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.

Beginning in 1978, the introduction of an expansion of the sample and revisions in the estimation procedures resulted in an increase of roughly a quarter of a million in the overall civilian labor force and employment totals; unemployment levels and rates were essentially unchanged. An explanation of the procedural changes and an indication of the differences appear in "Revisions in the Current Population Survey in January 1978" in the February 1978 issue of *Employment and Earnings*.

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 non-farm laborers group increased by 420,000, and changes in other groups amounted to 220,000 or less.

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

Apart from the effects of revisions in the 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 proportions 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

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

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

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

Nonsampling errors occurring in the interview phase of the survey have been studied by means of a reinterview program. This reinterview program is used to estimate various sources of error as well as to evaluate and control the work of the interviewers. A random sample of each interviewer's work is inspected through reinterview at regular intervals. The results of reinterview indicate, among other things, that the data published from the CPS are subject to moderate systematic biases. A description of the CPS reinterview program and some of the other results may be found in the *Current Population Survey Reinterview Program, January 1961 through December 1966*, U.S. Department of Commerce, Bureau of the Census, Technical Paper No. 19.

The effects of some components of nonsampling error in the CPS data can be examined as a result of the rotation plan used for the sample, since the level of the estimates vary by rotation group. A description of these effects appears in the article "The Effects of Rotation Group Bias on Estimates from Panel Surveys," by Barbara A. Bailer, *Journal of the American Statistical Association*, Volume 70, Number 349, March 1975.

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Overall undercoverage, as compared to the level of the decennial census, is about 5 percent. It is known that the CPS undercoverage varies with age, sex, and race. Generally, undercoverage is larger for males than for females and larger for black and other races than for whites. Ratio estimation to independent age-sex-race population controls, as described previously, partially corrects for the biases due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race group. Further, the independent population controls used have not been adjusted for undercoverage in the 1970 census, which was estimated at 2.5 percent of the population, with differentials by age, sex, and race similar to those observed in the CPS.

The approximate magnitude of two sources of undercoverage of housing units is known. Of the 83,000,000 housing units in the U.S. about 600,000 new construction housing units, other than mobile homes, are not represented in the CPS sample because they were assigned building permits prior to the 1970 census but building was not completed by the time of the census, (i.e., April 1970). Most conventional new construction, for which building permits were issued after the census, is represented. About 290,000 occupied mobile homes are not represented in the CPS; these units were either missed in the census or have been built or occupied since the census. These estimates of missed units are relevant to the present sample only and not to earlier designs where the extent of undercoverage was generally less. The extent of other sources of undercoverage of housing units is unknown but believed to be small.

Additional information on nonsampling error in the CPS appears in the paper, "An Error Profile: Employment as Measured by the Current Population Survey," by Camilla Brooks and Barbara Bailer, Proceedings of the Annual Meetings of the American Statistical Association, Social Statistics Section, Chicago, Illinois, August 1977; in the paper "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Volume 2, Number 2, April 1973; and in *The Current Population Survey, Design and Methodology*, U.S. Department of Commerce, Bureau of the Census, *Technical Paper No. 40*. This last document includes a comprehensive and up-to-date discussion of various sources of errors, and describes attempts to measure them in the CPS.

Sampling error. Since the estimates are based on a sample, they may differ somewhat from the figures that would have been obtained if a complete census had been taken using the same schedules, instructions, and enumerators. The standard error is primarily a measure of sampling variability, that is, of the variation that occurs by chance because a sample rather than the entire population is surveyed. The chances are about 68 out of 100 that an estimate from the survey differs from a complete census figure by less than the standard error. The chances are about 95 out of 100 that the differences would be less than twice the standard error.

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations were required. First, the standard errors in this report reflect the sample design and estimation procedure in effect prior to the expansion for annual average State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Secondly, instead of computing an individual standard error for each estimate, generalized sets of standard errors were computed for various types of characteristics. This generalization yields more stable estimates of the standard errors. Consequently, the sets of

standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

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

Tables C through G provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table H contains factors for use with table G for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between two consecutive months. Estimates of change over other time periods are subject to higher standard errors. For years prior to 1967, the standard errors must be adjusted due to differences in sample size. For years before 1956, the standard errors should be multiplied by 1.50 and for the 1956-1966 period they should be multiplied by 1.22.

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

Illustration. Assume that the tables showed that the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table C shows that the standard error on an estimate of 12,000,000 is about 150,000. Consequently, the chances are about 68 out of 100 that the sample estimate differs by less than 150,000 from the figure which would have been obtained from a complete count of the number of persons working the given number of hours. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in column one of table D the standard error on a month-to-month change of 400,000 when the monthly level is approximately 12,000,000 is about 111,000.

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

Tables E and F shows generalized standard errors for monthly level and month-to-month change for unemployment rates.

Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentages can be obtained through the use of the standard errors in table G and

the factors in table H. First obtain the standard error from table G for the specific percentage and base. The generalized standard error is then calculated by multiplying the standard error from table G by the appropriate factor from table H. When the numerator and denominator of the percentage are in different categories, use the factor indicated by the numerator of the percentage.

Illustration. For example, assume that the tables show that 3.6 percent of a total of 90,771,000 employed persons are employed in agriculture. First the standard error on an estimate of 3.6 percent with a base of 90,771,000 is obtained from table G (0.09 percent). The appropriate factor from table H for the numerator of the percentage, agriculture employment, is 1.26. The generalized standard error on the estimated 3.6 percent is then approximately $0.09 \times 1.26 = 0.1$ percent.

Table A. Standard errors of major employment status categories

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to- month change (consecutive months only)
(In thousands)		
Total, 16 years and over:		
Civilian labor force	226	173
Employed	239	182
Unemployed	112	115
Males, 20 years and over:		
Civilian labor force	127	111
Employed	138	121
Unemployed	70	73
Females, 20 years and over:		
Civilian labor force	176	129
Employed	174	131
Unemployed	70	73
Both sexes, 16-19 years:		
Civilian labor force	80	85
Employed	85	94
Unemployed	57	70
Black and other, 16 years and over:		
Civilian labor force	80	61
Employed	87	66
Unemployed	55	58
Males, 20 years and over:		
Civilian labor force	47	41
Employed	52	46
Unemployed	35	38
Females, 20 years and over:		
Civilian labor force	62	48
Employed	62	49
Unemployed	35	38
Both sexes, 16-19 years:		
Civilian labor force	33	37
Employed	30	35
Unemployed	28	31

Table B. Standard errors of unemployment rates for major characteristics

Selected categories	Standard error of—		Selected categories	Standard error of—	
	Monthly level	Consecutive month change		Monthly level	Consecutive month change
Total (all civilian workers) . . . . .	.11	.12	OCCUPATION—Continued		
Males, 20 years and over . . . . .	.13	.14	Blue-collar workers—Continued		
Females, 20 years and over . . . . .	.19	.20	Operatives, except transport . . . . .	.40	.45
Both sexes, 16-19 years . . . . .	.56	.67	Transport equipment operatives . . . . .	.53	.60
White workers . . . . .	.11	.12	Nonfarm laborers . . . . .	.61	.70
Black (and other) workers . . . . .	.48	.55	Service workers . . . . .	.32	.36
Married men, spouse present . . . . .	.13	.14	Farm workers . . . . .	.56	.63
Married women, spouse present . . . . .	.23	.25			
Full-time workers . . . . .	.12	.12	INDUSTRY		
Part-time workers . . . . .	.34	.42	Nonagricultural private wage and salary workers . . . . .	.13	.14
Unemployed 15 weeks and over . . . . .	.06	.08	Construction . . . . .	.54	.61
OCCUPATION			Manufacturing . . . . .	.24	.26
White-collar workers . . . . .	.13	.14	Durable goods . . . . .	.30	.34
Professional and technical . . . . .	.20	.22	Nondurable goods . . . . .	.40	.45
Managers and administrators, except farm . . . . .	.22	.24	Transportation and public utilities . . . . .	.39	.44
Sales workers . . . . .	.40	.44	Wholesale and retail trade . . . . .	.26	.29
Clerical workers . . . . .	.25	.28	Finance and service industries . . . . .	.18	.20
Blue-collar workers . . . . .	.21	.23	Government workers . . . . .	.22	.24
Craft and kindred workers . . . . .	.28	.31	Agricultural wage and salary workers	1.10	1.26

Table C. Standard errors for estimates of monthly level (In thousands)

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

¹ When determining the standard error of an estimate for a group which is a subset of the age, sex, race groups listed, use the standard error for the next larger group, e.g., when determining the standard error on the estimated number of employed persons age 20 to 54 years use the column for total employed.

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

(In thousands)

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

¹ See footnote 1, table C.

² Part-time labor force for unemployment also includes persons

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

Table E. Standard errors of unemployment rates

Monthly base of unemployment rate (In thousands)	Monthly unemployment rate									
	1	2	5	10	15	20	25	30	35	50
50	2.05	2.88	4.49	6.18	7.36	8.25	8.93	9.46	9.85	10.36
100	1.45	2.04	3.18	4.37	5.20	5.83	6.32	6.69	6.97	7.33
500	.65	.91	1.42	1.96	2.33	2.61	2.82	2.99	3.12	3.28
1,000	.46	.65	1.01	1.38	1.65	1.84	2.00	2.12	2.21	2.32
2,000	.32	.46	.71	.98	1.17	1.31	1.42	1.50	1.56	1.64
4,000	.23	.32	.50	.69	.83	.92	1.00	1.06	1.10	1.16
6,000	.19	.26	.41	.57	.67	.75	.82	.86	.90	.94
10,000	.15	.21	.32	.44	.52	.59	.63	.67	.70	.73
20,000	.11	.15	.23	.31	.37	.41	.45	.47	.49	.51
60,000	.06	.08	.12	.17	.20	.23	.25	.26	.27	.28
100,000	.04	.06	.10	.13	.16	.18	.19	.20	.21	.22

Table F. Standard errors of month-to-month change in unemployment rates

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

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

Monthly base of percentages (In thousands)	Percentage of monthly level									
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	30 or 70	35 or 65	50
50	2.03	2.85	4.44	6.12	7.28	8.15	8.83	9.34	9.72	10.19
100	1.43	2.02	3.14	4.32	5.15	5.77	6.24	6.61	6.88	7.21
500 .....	.64	.90	1.41	1.93	2.30	2.58	2.79	2.95	3.07	3.22
1,000 .....	.45	.64	.99	1.37	1.63	1.82	1.97	2.09	2.17	2.28
2,000 .....	.32	.45	.70	.97	1.15	1.29	1.40	1.48	1.54	1.61
4,000 .....	.23	.32	.50	.68	.81	.91	.99	1.04	1.09	1.14
6,000 .....	.19	.26	.41	.56	.66	.74	.81	.85	.89	.93
10,000 .....	.14	.20	.31	.43	.51	.58	.62	.66	.69	.73
20,000 .....	.10	.14	.22	.31	.36	.41	.44	.47	.49	.51
40,000 .....	.07	.10	.16	.22	.26	.29	.31	.33	.34	.36
60,000 .....	.06	.08	.13	.18	.21	.24	.25	.27	.28	.29
80,000 .....	.05	.07	.11	.15	.18	.20	.22	.23	.24	.25
100,000 .....	.05	.06	.10	.14	.16	.18	.20	.21	.22	.23
160,000 .....	.04	.05	.08	.11	.13	.14	.16	.17	.17	.18

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

Table H. Factors to be used with Table G to compute approximate standard errors for percentages and month-to-month changes in percentages

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

Establishment data

(B, C, and D tables)

COLLECTION

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

Federal-State cooperation

Under cooperative arrangements 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 plants own use (e.g., power plant), and record-keeping 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 pre-cutting 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 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 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 non-agricultural 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: *Accession* (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 rehired employees.

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

Recalls are permanent or temporary additions to the employment roll of persons specifically recalled to a job in the same establishment of the company following a period of layoff lasting

more than 7 consecutive days. (The collection of recalls, as a separate item, began January 1976.)

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

Separations are terminations of employment during the calendar month and are classified according to cause: Quits, layoffs, and other separations, 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 I. Summary of methods for

Table I. 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.

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 J.

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,

Table J. 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 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.

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 K 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 L shows the approximate coverage, in terms of employment, of the labor turnover sample.

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

Table K. 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	154,400	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.

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

Table L. 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

Table M. 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 .....	.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.

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 M 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 M and for individual industries with the specified number of employees in table N. The chances are about 2 out of 3 that the

Table N. 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 O. 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

hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

One measure of the reliability of the employment estimates for individual industries is the root-mean-square error (RMSE). The measure is the standard deviation adjusted for the bias in estimates

$$(\text{RMSE} = \sqrt{(\text{Standard Deviation})^2 + (\text{Bias})^2}).$$

If the bias is small, the chances are about 2 out of 3 that an estimate from the sample would differ from its benchmark by less than the root-mean-square error. The chances are about 19 out of 20 that the difference would be less than twice the root-mean-square error.

Approximations of the root-mean-square errors (based on the experience of the last 6 years) of differences between final estimates and benchmarks are presented in table N.

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 O 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.

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.

Definition

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 payment for the self-employed, except for non-financial 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 business.

Manufacturing data have been revised to reflect revisions in the Federal Reserve Board Index of Industrial Production. Output data are supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis. Compensation and 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 estimates 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:

$U = A(X + E) + BX$, 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 estimates; (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 LMS'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 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. Sea-

sonally 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 1977, 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 1978 *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 good 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 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 1977. Seasonal factors to be used for current adjustment appear in the December 1977 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

REGION I - BOSTON

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

REGION II - NEW YORK

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

REGION III - PHILADELPHIA

3535 Market Street
P.O. Box 13309 (Zip 19101)
Philadelphia, Pa.

REGION IV - ATLANTA

1371 Peachtree Street, N.E.
Atlanta, Ga. 30309

REGION V - CHICAGO

230 S. Dearborn Street
Chicago, Ill. 60604

REGION VI - DALLAS

555 Griffin Sq., 2nd Fl.
Dallas, Tex. 75202

REGIONS VII & VIII - KANSAS CITY

911 Walnut Street
Kansas City, Mo. 64106

REGIONS IX & X - SAN FRANCISCO

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

COOPERATING STATE AGENCIES

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

BLS Region

IV ALABAMA	-Department of Industrial Relations, Industrial Relations Building, 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	-Management Services, Department of Labor and Employment, 1210 Sherman Street, Denver 80203
I CONNECTICUT	-Employment Security Division, Labor Department, 200 Folly Brook Boulevard, Wethersfield 06109
III DELAWARE	-Department of Labor, University Plaza Office Complex, Bldg. D, Chapman Rd., Route 273, Newark 19713
II DIST. OF COL.	-Office of Administration and Management Service, D.C. Department of Manpower, Suite 1000, 605 G Street, N. W., Washington 20001
IV FLORIDA	-Department of Commerce, Caldwell Building, Tallahassee 32304
IV GEORGIA	-Department of Labor, 254 Washington Street, S.W., Atlanta 30334
IX HAWAII	-Department of Labor and Industrial Relations, P.O. Box 3680, Honolulu 96811
X IDAHO	-Department of Employment, P.O. Box 35, Boise 83707
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	-Department of Human Resources, 275 E. Main Street, 2nd Floor West, Frankfort 40601
VI LOUISIANA	-Department of Labor, P.O. Box 44094, 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 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, 145 S. 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, Room 402, 875 Union Street, N.E., Salem 97310
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