

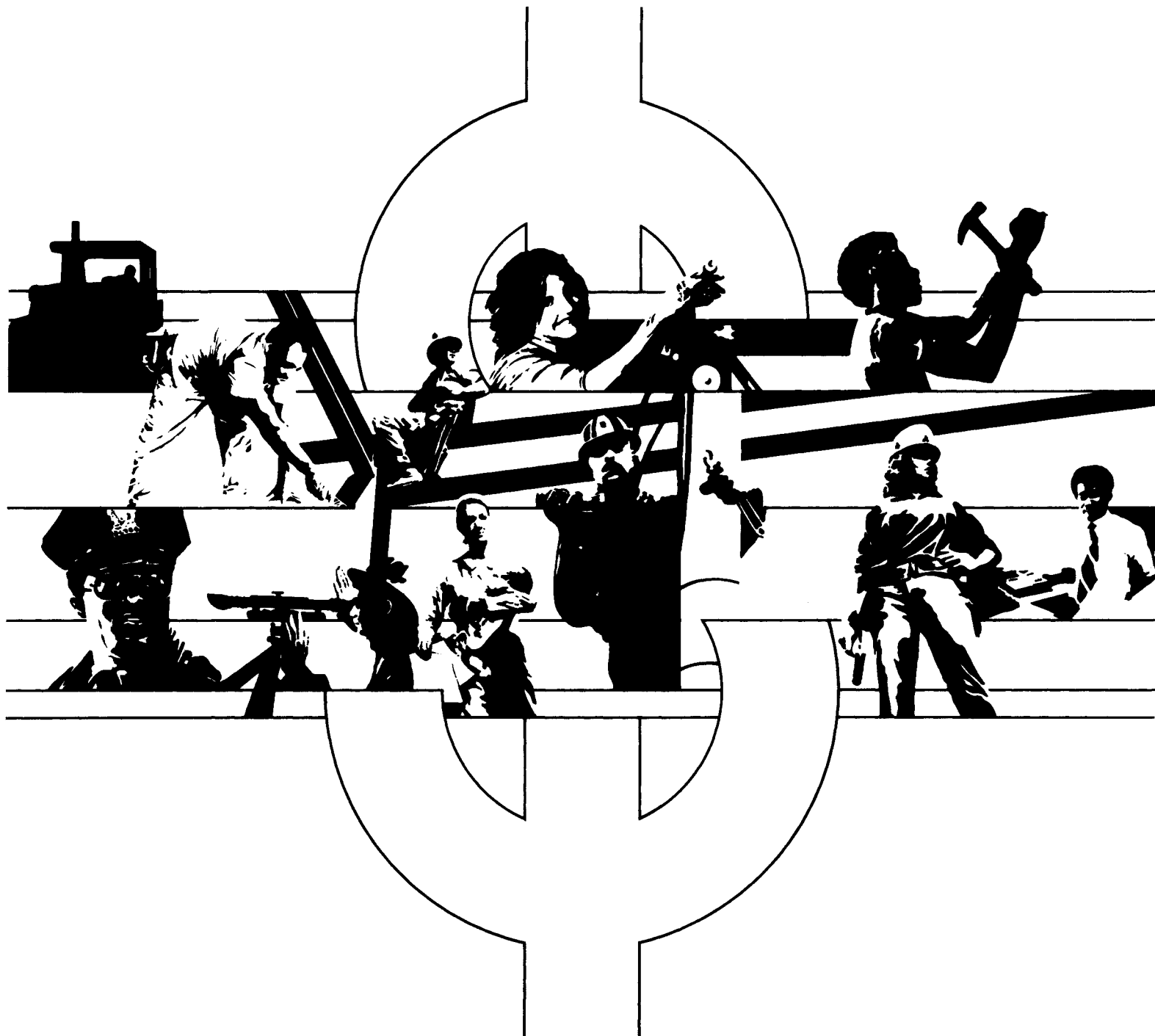
Employment and Earnings

March 1981



U.S. Department of Labor
Bureau of Labor Statistics

In this issue:
1980 annual averages for all
national industry series





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

BUREAU OF LABOR STATISTICS
Janet L. Norwood, Commissioner

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Calendar of Features

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

Household data

Annual averages	Jan.
Revised seasonally adjusted series	Jan., Feb.
Quarterly averages: Seasonally adjusted data, persons not in labor force, persons of Hispanic origin, Vietnam-era veterans and nonveterans, poverty-nonpoverty area data, family relationship data, weekly earnings data	Jan., Apr., July, Oct.

Establishment data

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

¹ The issue that introduces new benchmark varies. The July 1980 issue introduced March 1979 benchmarks.

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

³ Issue varies. Latest revised data introduced July 1980.

Employment and Earnings

Vol. 28 No. 3 March 1981

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

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Employment and Unemployment Developments, February 1981

The overall employment situation was little changed from January to February. The Nation's unemployment rate was 7.3 percent in February; it had been 7.4 percent in the prior 2 months.

Total employment—as measured by the monthly survey of households—edged up in February to 97.9 million.

Nonfarm payroll employment—as measured by the monthly survey of establishments—was unchanged in February at 91.5 million.

Unemployment

The Nation's unemployment rate was 7.3 percent in February, and the number of unemployed workers was 7.8 million; both measures were about unchanged over the month. Likewise, unemployment rates for most major worker groups in February were about the same as in January: Adult men (6.0 percent), adult women (6.5 percent), teenagers (19.3 percent), whites (6.6 percent), Hispanics (12.0 percent), and black and other workers (13.1 percent). Jobless rates for all of these worker groups were substantially above their year-earlier levels. (See table A-36.)

The number of persons who had been unemployed for 15 weeks or more dropped in February and the median duration of unemployment declined from 7.4 to 6.9 weeks, still well above the level of a year ago. (See table A-37.)

The number of unemployed persons on layoff or permanently separated from their jobs (job losers), which had been declining between June and January, was unchanged in February at 3.9 million. The other unemployment categories—job leavers and labor force entrants—have shown no consistent trend since June. (See table A-39.)

Total employment and the labor force

Total employment rose by 230,000 over the month and, at 97.9 million, exceeded the 1980 peak which occurred in this series last February. Adult women accounted for virtually all of the over-the-month increase, and their February employment total was 835,000 above last February's level. In contrast, employment of adult

men and teenagers was below the year-earlier level, by 270,000 and 450,000, respectively. (See table A-33.)

The civilian labor force was little changed over the month at 105.7 million. Over the past year, the labor force has grown by 1.6 million, a slower pace than in recent years. Most of the over-the-year increase occurred among adult women, whose labor force participation rate reached an all-time high of 51.9 percent in February. The labor force increase for adult men was smaller than their population growth over the past 12 months; their participation rate continued its long-term decline and was 78.7 percent in February.

Industry payroll employment

Nonfarm payroll employment was unchanged in February, at 91.5 million, following 6 consecutive monthly advances. An employment gain in wholesale and retail trade was offset by a decrease in the number of construction jobs. The number of payroll jobs was 365,000 above the February 1980 employment peak. (See table B-4.)

Construction employment dropped by 110,000 over the month. This decline followed several months of job gains. At 4.5 million, construction jobs were still 140,000 short of last February's level.

Manufacturing employment remained unchanged at 20.4 million in February. The number of factory jobs was still well below pre-recession levels.

Employment rose by 110,000 in wholesale and retail trade. Elsewhere in the service-producing sector, there was a small job increase in finance, insurance, and real estate, while Federal Government employment declined over the month.

Hours of work

The average workweek for production or nonsupervisory workers on private nonfarm payrolls fell 0.3 hour in February to 35.2 hours. Adverse weather conditions in the Midwest and the Southeast were apparently a major factor in this decline. The manufacturing workweek decreased 0.6 hour during February to 39.8 hours, offsetting gains of the past two months. Factory overtime declined by 0.2 hour to 2.9 hours in February. (See table C-7.)

The sharp reduction in the workweek coupled with the stable employment level led to a decline in the index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls. The index decreased 0.7 percent in February to 125.7 (1967 = 100) following steady increases since July. (See table C-8.)

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls rose 0.1 percent in February (seasonally adjusted). Average weekly earnings fell 0.7 percent as a result of the decrease in hours. Before adjustment for seasonality, average hourly earnings rose by one cent over the month and 58

cents over the year. Average weekly earnings were \$245.70, down 35 cents in February, but up \$18.95 from a year earlier. (See tables C-1 and C-9.)

The Hourly Earnings Index

The Hourly Earnings Index—earnings adjusted for overtime in manufacturing, seasonality, and the effects of changes in the proportion of workers in high-wage and low-wage industries—was 265.6 (1967 = 100) in February, 0.5 percent higher than in January. The Index was 9.5 percent above February a year ago. In dollars of constant purchasing power, the Index decreased 1.7 percent during the 12-month period ended in January. (See table C-9.)

Comparison of Nongovernmental Employment Estimates From Two Surveys

*Gloria Peterson Green

The vast majority of working Americans hold jobs in the nonagricultural sector of the economy. Statistics on the number of these workers and the rate of growth in their employment are vital in appraising current labor market trends and in assessing the overall performance of the economy. Each month, the Bureau of Labor Statistics analyzes and publishes two independently derived estimates of nonagricultural employment, based on data collected from the Current Population Survey (household survey) and the Current Employment Survey (establishment survey). Data from the household survey are obtained from a sample of 65,000 households and measure the *work status of individuals*, whereas data from the establishment survey are derived from payroll records of approximately 166,000 establishments employing about 35 million workers and are essentially a count of *occupied jobs*.

The levels of the employment estimates from the two surveys, of course, differ significantly but their long-term movements have been strikingly similar, though there have been divergences in recent years. Differences also emerge with respect to the magnitude and direction of month-to-month changes, the timing and extent of business cycle swings, and other short-run trends. These differences occur primarily because the series measure different phenomena—employed individuals versus occupied jobs. Whereas dissimilarities in coverage can be quantified to some degree, those in sampling, collection, and estimation techniques cannot be readily measured.

This article continues the Bureau's annual practice of providing an analysis of quantifiable differences between the series and a discussion of some major unmeasurable causes of discrepancies between them.¹

Concepts and coverage

The household survey, although based on a smaller sample than the establishment survey, is more comprehensive in scope, in that it covers all wage and salary workers 16 years of age and over, including private household workers, and also covers self-employed and unpaid family workers. Persons "with a job but not at work" during the reference week because of absences due to bad weather, illness, vacation, industrial

disputes, or various personal reasons are also counted as employed whether or not they were paid for their time off.

In contrast, the establishment survey covers only paid wage and salary employees and excludes private household workers. However, the establishment survey has no age limitation. Further, employees who appear on more than one payroll are counted separately for each appearance. Such persons are counted only once in the household survey, in the job at which they worked the greatest number of hours.

Quantifiable differences

Table 1 reconciles, to the extent possible, the annual average levels of nonagricultural employment from the two series for 1978-80. The reconciliation technique involves a series of adjustments to the household estimate of total nonagricultural employment in order to bring it into as close conformity as possible with the concept of nonagricultural employment in the establishment survey. Thus, estimates for the following groups are *subtracted* from the household series: Self-employed workers, unpaid family workers, private household workers, and workers on unpaid absences from their jobs during the reference week. Similarly, estimates of the number of employed 14- and 15-year-olds in nonagricultural wage and salary jobs (excluding private

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¹ Prior analyses of the quantifiable differences between the two series appeared in the last three March issues of this publication. For discussions of the conceptual and definitional differences between the two surveys, as well as long-term trends in their movements, see Gloria P. Green, "Comparing Employment Estimates From Household and Payroll Surveys," *Monthly Labor Review*, December 1969, pp. 9-20, and Christopher G. Gellner, "A 25-Year Look at Employment as Measured by Two Surveys" *Monthly Labor Review*, July 1973, pp. 14-23. Additional information appears in Joseph R. Antos, Anthony J. Barkume, J. Wilson Mixon, and Jack R. Triplett, "Why Employment Estimates Differ: A Study of Discrepancies Between BLS Household and Payroll Estimates," BLS Working Paper No. 65, October 1976, and Alexander Kornis, "Cyclical Fluctuations in the Difference Between the Payroll and Household Measures of Employment," and "The Difference Between the Payroll and Household Measures of Employment, 1975-79," in the May and December 1979 issues, respectively, of the *Survey of Current Business*, Bureau of Economic Analysis, U.S. Department of Commerce.

Table 1. Reconciliation of nonagricultural employment estimates from the household and establishment surveys, annual averages, 1978-80

(In thousands)

Item	1978	1979	1980	Change 1979-80
Payroll series, as published	<u>86,697</u>	<u>89,886</u>	<u>90,657</u>	<u>771</u>
Household series, as published	<u>91,031</u>	<u>93,648</u>	<u>93,960</u>	<u>312</u>
Less:				
Self-employed workers	6,305	6,652	6,850	198
Unpaid family workers	472	455	404	-51
Private household workers	1,363	1,240	1,166	-74
Unpaid absentees	2,152	2,208	2,195	-13
Equals:				
Nonagricultural wage and salary workers less private household workers and unpaid absentees	<u>80,739</u>	<u>83,093</u>	<u>83,345</u>	<u>252</u>
Plus:				
14- and 15-year-olds	702	699	603	-96
Agricultural service workers	316	357	369	12
Equals:				
Household series adjusted by above factors ..	<u>81,757</u>	<u>84,149</u>	<u>84,317</u>	<u>168</u>
Difference:				
Payroll series less adjusted household series ¹ ..	4,940	5,737	6,340	603

¹ As discussed more fully in the text, there are several factors which account for the remaining difference. Perhaps the largest is dual jobholding reflected in the payroll series. This is corroborated to some degree in the household surveys conducted in the month of May. In 1978, 1979, and 1980, the estimated numbers of persons

holding a second nonagricultural wage and salary job were 2,870,000, 2,993,000 and 3,024,000, respectively. Another major source of discrepancy is the undercounting of the population in the decennial censuses, which, in turn, results in an understatement of the household survey's employment estimates.

households) and workers employed in agricultural services are *added* to the household series.²

After these adjustments were made to take account of the measurable differences in concepts and coverage, the establishment survey estimates exceeded those of the household survey by 4.9 million in 1978, 5.7 million in 1979, and 6.3 million in 1980. The remaining differences stem from multiple counting in the payroll survey, undercounting of the population in the household survey, and a number of other factors which cannot be quantified with any degree of certainty. Moreover, both surveys are affected by sampling errors of various kinds. Whether these unquantifiable differences change significantly over time so as to account for at least some of the 1.4 million increase in the measurable difference between the two series from 1978 to 1980 cannot be determined.

Sources of unquantifiable differences

Multiple counting of workers in the establishment survey stems primarily from workers holding two or more jobs concurrently but also results from workers leaving one job and obtaining another one during the same reference period and thus appearing on the payroll records of more than one employer. Moreover, multiple counting may result when a worker is continued on a

payroll while being compensated for earned vacation time, even though he or she has left the job. While it is virtually impossible to determine the extent of multiple jobholding in the establishment survey in the absence of a matching of payroll records and Social Security numbers, this phenomenon is measured to some degree in the household survey through special surveys conducted annually in the month of May.³ In May 1980, the number of persons 16 years of age and over working as nonagricultural wage and salary workers on second jobs totaled 3.0 million. Eliminating this and other types of dual counting would, of course, significantly reduce the differential between the two series.

With respect to the population undercount in the household survey, the decennial population censuses provide the basis for projection of current estimates of

² Agricultural service workers are classified in agricultural industries in the household survey; in the establishment survey, they are a subcategory of the services industry. Coverage is limited to those subgroups which are largely nonagricultural in nature, such as veterinary, animal, landscape, and horticultural services. With respect to the age adjustment, data on persons under 14 who may be employed in nonagricultural industries are not collected in the household survey.

³ Given the timing and infrequency of the survey, the effects of this phenomenon on employment levels during the year cannot be ascertained.

the population, which, in turn, serve as monthly controls for the household survey sample. Thus, any undercoverage of the population in the census would result in an understatement of the level of employment derived from this survey. The Census Bureau estimated that 5.3 million persons or 2.5 percent of the population were missed in the 1970 census; however, there are no "true" estimates of how many of these persons held wage and salary jobs in nonagricultural industries.⁴ The inclusion of missed workers in the household survey estimates would also significantly reduce the differential between the series.

Preliminary results from the 1980 Decennial Census suggest that the degree of undercounting in this census was considerably less than in prior censuses. The precise impact of the improved coverage on estimates for nonagricultural employment is not yet known but it is safe to conclude that the gap between the two surveys for 1980 will be greatly reduced when new population controls are introduced sometime within the next 12 months.

Finally, there are several groups of workers who are outside the scope of the household survey but are counted on the payrolls of establishments. These include military personnel who also hold civilian jobs, institutionalized individuals working on payroll jobs in or outside the institution, and foreign workers (such as residents of Canada or Mexico) who commute to jobs in the United States. Moreover, the establishment survey probably includes many illegal aliens, particularly in the trade and services industries, whereas such persons would be reluctant to be identified and thus counted in the household survey. Adjustments for these unquantifiable differences in coverage would also reduce the differential in the levels of the series.

Sampling variability

Statistics derived from the household and establishment surveys are subject to sampling error, that is, estimates of the number of employed persons and other measures provided from these surveys may differ from the figures that would be obtained if a complete census were taken using the same schedules, instructions, and enumerators. In the household survey, the amount of the differences arising from sampling can be expressed in terms of standard error. The chances are 68 out of 100 that an estimate will differ by no more than one standard error from the results of a complete census. The chances are 90 out of 100 that an estimate based on the sample will differ by no more than 1.6 times the

standard error from the results of a complete census. At the 90-percent level of confidence—the limits used by the BLS in its analyses—the monthly sampling error for the household survey estimate of nonagricultural wage and salary employment is on the order of plus or minus 394,000. (On an annual average basis, the error is about 264,000.) As in any sample survey, the results are also subject to errors of response, reporting, processing, and undercoverage.

In the establishment survey, sampling and res error may accumulate over several months, because the estimating procedure employs the previous month's estimate as the base in computing the current month's level (link-relative technique). Moreover, estimates for the 2 most current months are based on incomplete returns and are revised when all of the returns in the sample are received. To remove any errors that accumulate over time, the employment estimates are adjusted annually to new benchmarks (comprehensive counts of employment). In addition to increasing the reliability of the sample estimates, the benchmark revisions adjust the estimates for intervening changes in industrial classification and the formation of new establishments. Approximations of the standard errors for the household survey data and measures of the reliability of the establishment survey data and the actual amounts of revision due to benchmark adjustments are provided in the Explanatory Notes of this publication.

Employment estimates are currently projected from March 1979 benchmark levels, which were introduced in the July 1980 issue of this publication.⁵ Since the 1979 benchmark revisions, the magnitude of recent changes in the payroll series has greatly exceeded that in the household series, and the difference between the series has widened. However, the benchmark revision in total payroll employment and the revised monthly bias adjustment factors (factors which are applied to the employment estimates to correct for the underrepresentation of business births and for other bias in the estimates) that were introduced coincident with the benchmark do not appear to explain very much of the increased difference between the employment estimates from the household and payroll series over the 1978-80 period.

⁴ "Coverage of Population in the 1970 Census and Some Implications for Public Programs," *Current Population Reports*, Series P-23, No. 56 (Bureau of the Census 1975).

⁵ See Carol M. Utter, "BLS Establishment Estimates Revised to March 1979 Benchmarks," *Employment and Earnings*, July 1980, p. 7.

Changes in the Spendable Earnings Series for 1981

* Mary Lee Seifert

The spendable earnings series published by the Bureau of Labor Statistics will again be affected by changes in the social security tax laws. These latest changes were effective January 1, 1981. This article discusses the effects of these changes and presents the formulas to be used in calculating spendable earnings in 1981. It also presents revised seasonally adjusted real earnings series for 1976-80.

The spendable earnings series are based on gross average weekly earnings of all production and non-supervisory workers in the private nonfarm sector of the economy. Formulas which subtract applicable social security and Federal income taxes from gross average weekly earnings are applied to derive the spendable earnings series.¹ The formulas assume that gross earnings are equal to total income and that the standard deduction is used to calculate Federal income tax liability. Formulas are computed for single workers and for married workers who have three dependents and file joint income tax returns.² Spendable earnings series are prepared for major industry divisions within the private nonfarm sector as well as for the total sector.

Two changes directed by the Social Security Amendments of 1977 (PL95-216) occurred in the social security tax laws effective January 1, 1981. The social security tax rate was increased from 6.13 percent to 6.65 percent, and the tax base was raised from \$25,900 to \$29,700 or, on a weekly earnings basis, from \$498.07 to \$571.15.

The change in the tax rate affects all workers covered by the social security tax laws. This change alone results in a 0.52 percent decrease in spendable earnings for all workers earning less than \$498.07 per week. The change in the tax base affects only those covered workers earnings more than \$498.07 per week; at present the gross average weekly earnings of production and nonsupervisory workers published by the Bureau of Labor Statistics are below the \$498.07 level. Hence the spendable earnings series is affected only by the change in the social security tax rate.

The formulas for calculating spendable earnings for 1981 are presented in table 1, along with the formulas for 1979 and 1980.³

Table 2 shows the changes in spendable earnings from 1980 to 1981 at different gross weekly earnings levels.

Using gross average weekly earnings estimates for

November 1980 (preliminary), table 3 shows, for a married worker with three dependents, spendable earnings computed by 1980 and 1981 formulas for each major division as well as for the total private nonfarm sector. The table indicates that a married worker with three dependents earning the average for the total private nonfarm sector of \$243.92 per week would have \$211.82 in spendable earnings under the 1981 tax provisions, \$1.27 less than under the 1980 provisions.

Real spendable earnings, or spendable earnings in constant dollars, are calculated by deflating spendable earnings in current dollars by the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

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¹ For a technical description of the calculation, uses, and limitations of the spendable earnings series, see Carol M. Utter, "The Spendable Earnings Series: A Technical Note on its Calculation," *Employment and Earnings and Monthly Report on the Labor Force*, February 1969, pp. 6-10; Jack Alterman, "Compensation per Man-Hour and Take-Home Pay," *Monthly Labor Review*, June 1971, pp. 25-34; John F. Early, "Factors Affecting Trends in Real Spendable Earnings," *Monthly Labor Review*, May 1973, pp. 16-19; and Paul Ryscavage, "Two Divergent Measures of Purchasing Power," *Monthly Labor Review*, August 1979, pp. 25-29.

² Spendable earnings formulas are derived from the following general formula:

$$X(1-t-s) + t(X^{\sim} + E) - C, \text{ where}$$

X = gross average weekly earnings,

s = social security tax rate,

t = marginal Federal income tax rate applicable to earnings,

X[~] = weekly earnings subject to Federal income tax at lower rates than t,

E = total exemptions in dollars on a weekly basis, and

C = cumulation of tax paid on X.

Where earnings exceed the social security tax base the general formula is:

$$X(1-t) + t(X^{\sim} + E) - C - S^{\sim}, \text{ where}$$

S[~] = social security tax base x social security tax rate / 52.

Where earnings are at levels where the earned income credit is applicable, the general formula is:

$$X(1-t-s-eic) + t(X^{\sim} + E) - C + eic^{\sim}, \text{ where}$$

eic = earned income tax rate, currently .125 for 6000 < 52x < 10000,

eic[~] = equivalent fixed amount the earned income credit adds to weekly earnings, currently \$24.04 (equals to 1250/50) for 6000 < 52x < 10000. The 1250 derives from the amount of the credit (500) plus the effective eic tax rate (.125) times the amount of earnings not subject to tax at that rate (6000), that is 1250 = 500 + 6000 x .125.

³ Formulas for prior periods were published in the September 1979 issue of *Employment and Earnings*; they are available upon request from the Bureau of Labor Statistics.

All seasonally adjusted real earnings series, including spendable earnings, have been revised to reflect seasonal experience in the CPI-W through 1980. The revised seasonally adjusted constant-dollar series are published

in table 4. Although the constant-dollar data for 1964-75 are unaffected by this revision, they are republished here with the revised 1976-80 data for the convenience of readers.

Table 1. Spendable average weekly earnings formulas, 1979-81

Period	Worker with no dependents ¹		Married worker with 3 dependents ¹	
	Gross average weekly earnings	Formula (X = gross average weekly earnings)	Gross average weekly earnings	Formula (X = gross average weekly earnings)
January—June 1979	0 - 63.46 63.47- 84.61 84.62-103.84 103.85-144.23 144.24-182.69 182.70-226.92 226.93-267.30 267.31-307.69 307.70-369.23 369.24-440.38 440.39-471.15 471.16-573.07	.9387X .7987X+ 8.88 .7787X+10.58 .7587X+12.65 .7487X+14.09 .7287X+17.75 .6987X+24.56 .6787X+29.90 .6387X+42.21 .5987X+56.98 .66 X+29.98 .61 X+53.54	0 -165.89 † 165.90-182.69 † 182.70-192.30 † 192.31-223.07 223.08-305.76 305.77-384.61 384.62-440.38 440.39-465.38 465.39-550.00 550.01-651.92 651.93-753.84	.9387X .6737X+ 43.96 .6537X+ 47.62 .7787X+ 23.58 .7587X+ 28.03 .7287X+ 37.21 .6987X+ 48.75 .76 X+ 21.75 .72 X+ 40.37 .68 X+ 62.37 .63 X+ 94.96
July—December 1979 ²	0 - 63.46 63.47- 84.61 84.62-103.84 103.85-144.23 144.24-182.69 182.70-226.92 226.93-267.30 267.31-307.69 307.70-369.23 369.24-440.38 440.39-471.15 471.16-573.07	.9387X .7987X+ 8.88 .7787X+10.58 .7587X+12.65 .7487X+14.09 .7287X+17.75 .6987X+24.56 .6787X+29.90 .6387X+42.21 .5987X+56.98 .66 X+29.98 .61 X+53.54	0 - 96.15 † 96.16-115.38 † 115.39-142.30 † 142.31-182.69 † 182.70-192.30 † 192.31-223.07 223.08-305.76 305.77-384.61 384.62-440.38 440.39-465.38 465.39-550.00 550.01-651.92 651.93-753.84	1.0387X .9387X+ 9.62 .8137X+ 24.04 .6737X+ 43.96 .6537X+ 47.62 .7787X+ 23.58 .7587X+ 28.03 .7287X+ 37.21 .6987X+ 48.75 .76 X+ 21.75 .72 X+ 40.37 .68 X+ 62.37 .63 X+ 94.96
1979 Annual Average ³	0 - 63.46 63.47- 84.61 84.62-103.84 103.85-144.23 144.24-182.69 182.70-226.92 226.93-267.30 267.31-307.69 307.70-369.23 369.24-440.38 440.39-471.15 471.16-573.07	.9387X .7987X+ 8.88 .7787X+10.58 .7587X+12.65 .7487X+14.09 .7287X+17.75 .6987X+24.56 .6787X+29.90 .6387X+42.21 .5987X+56.98 .66 X+29.98 .61 X+53.54	0- 96.15 † 96.16-115.38 † 115.39-142.30 † 142.31-165.89 † 165.90-182.69 † 182.70-192.30 † 192.31-223.07 223.08-305.76 305.77-384.61 384.62-440.38 440.39-465.38 465.39-550.00 550.01-651.92 651.93-753.84	.9887X .9387X+ 4.81 .8762X+ 12.02 .8062X+ 21.98 .6737X+ 43.96 .6537X+ 47.62 .7787X+ 23.58 .7587X+ 28.03 .7287X+ 37.21 .6987X+ 48.75 .76 X+ 21.75 .72 X+ 40.37 .68 X+ 62.37 .63 X+ 94.96
January—December 1980	0.00 - 63.46 63.47 - 84.61 84.62 - 103.84 103.85 - 144.23 144.24 - 182.69 182.70 - 226.92 226.93 - 267.30 267.31 - 307.69 307.70 - 369.23 369.24 - 471.15 471.16 - 498.07 498.08 - 573.07 573.08 - 875.00 875.01 - 817.30	.9387X .7987X + 8.88 .7787X + 10.58 .7587X + 12.65 .7487X + 14.09 .7287X + 17.75 .6987X + 24.56 .6787X + 29.90 .6387X + 42.21 .5987X + 56.98 .61 X + 50.01 .56 X + 78.66 .49 X +112.41	0.00 - 96.15 † 96.16 - 115.38 † 115.39 - 142.30 † 142.31 - 182.69 † 182.70 - 192.30 † 192.31 - 223.07 223.08 - 305.76 305.77 - 384.61 384.62 - 465.38 465.39 - 498.07 498.08 - 550.00 550.01 - 651.92 651.93 - 753.84 753.85 - 957.89	1.0387X .9387X + 9.62 .8137X + 24.04 .6737X + 43.96 .6537X + 47.62 .7787X + 23.58 .7587X + 28.03 .7287X + 37.21 .6987X + 48.75 .6587X + 87.37 .72 X + 36.84 .68 X + 58.84 .63 X + 91.43 .57 X +136.66

See footnotes at end of table.

Table 1. Spendable average weekly earnings formulas, 1979-81—Continued

Period	Worker with no dependents ¹		Married worker with 3 dependents ¹	
	Gross average weekly earnings	Formula (X = gross average weekly earnings)	Gross average weekly earnings	Formula (X = gross average weekly earnings)
January—December 1981	0.00 - 83.46	.9335X	0.00 - 96.15 †	1.0335X
	83.47 - 84.81	.7935X + 8.88	96.16 - 115.38 †	.9335X + 9.62
	84.82 - 103.84	.7735X + 10.58	115.39 - 142.30 †	.8085X + 24.04
	103.85 - 144.23	.7535X + 12.65	142.31 - 182.89 †	.6685X + 43.96
	144.24 - 182.69	.7435X + 14.09	182.70 - 192.30 †	.6485X + 47.62
	182.70 - 226.92	.7235X + 17.75	192.31 - 223.07	.7735X + 23.58
	226.93 - 267.30	.6935X + 24.56	223.08 - 305.76	.7535X + 28.03
	267.31 - 307.69	.6735X + 29.90	305.77 - 384.81	.7235X + 37.21
	307.70 - 369.23	.6335X + 42.21	384.82 - 465.38	.6935X + 48.75
	369.24 - 471.15	.5935X + 56.98	465.39 - 550.00	.6535X + 67.37
	471.16 - 571.15	.5435X + 80.54	550.01 - 571.15	.6135X + 89.37
	571.16 - 573.07	.61 X + 42.56	571.16 - 651.92	.68 X + 51.39
	573.08 - 675.00	.56 X + 71.21	651.93 - 753.84	.63 X + 83.98
	675.01 - 817.30	.51 X + 104.96	753.85 - 957.69	.57 X + 129.21

¹ For workers who earned the average weekly earnings.

² July 1979 marked the beginning of earned income credit advance payments. Prior to this, earned income credits were included only to the extent that they reduced positive income tax liabilities.

³ Formulas for computing annual averages take into account changes during the year in income tax rates.

† Workers with earnings in this range were eligible for earned income credits.

Table 2. Changes in spendable average weekly earnings at different gross earnings levels, 1980 and 1981

Category of worker	Gross average weekly earnings	Spendable earnings		
		1980	1981	Change
Married worker with 3 dependents	\$96.15	\$99.87	\$99.37	\$- .50
	115.38	117.93	117.33	-.60
	142.30	139.83	139.09	-.74
	182.69	167.04	166.09	-.95
	192.30	173.33	172.33	-1.00
	223.07	197.28	196.12	-1.16
	305.76	260.01	258.42	-1.59
	384.61	317.48	315.48	-2.00
	465.38	373.91	371.49	-2.42
	500.00	396.84	394.12	-2.72
	550.00	432.84	426.80	-6.04
571.15	447.22	439.77	-7.45	
Single worker	63.46	59.57	59.24	-.33
	84.61	76.46	76.02	-.44
	103.84	91.44	90.90	-.54
	144.23	122.08	121.33	-.75
	182.69	150.87	149.92	-.95
	226.92	183.11	181.93	-1.18
	267.30	211.32	209.93	-1.39
	307.69	238.73	237.13	-1.60
	369.23	278.04	276.12	-1.92
	471.15	339.06	336.61	-2.45
	500.00	355.10	352.29	-1.81
571.15	389.41	390.96	-7.45	

Table 3. Spendable average weekly earnings for married workers with three dependents, by industry division, November 1980, computed by 1980 and 1981 formulas

Industry division	Gross average weekly earnings November 1980p	Spendable earnings		
		Under 1980 formula	Under 1981 formula	Difference
Total private nonfarm sector	\$243.92	\$213.09	\$211.82	\$-1.27
Mining	416.11	341.46	339.30	-2.16
Construction.	376.10	311.27	309.32	-1.95
Manufacturing.	302.80	257.76	256.19	-1.57
Transportation and public utilities	367.23	305.33	303.42	-1.91
Trade	180.72	165.76	164.82	-0.94
Finance, insurance, and real estate.	218.04	193.37	192.23	-1.14
Services.	198.53	178.18	177.14	-1.04

p=preliminary.

Table 4. Revised seasonally adjusted real earnings series of production or nonsupervisory workers¹ on private nonagricultural payrolls

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
GROSS AVERAGE HOURLY EARNINGS - IN 1967 DOLLARS												
1964.....	\$2.50	\$2.52	\$2.51	\$2.52	\$2.53	\$2.53	\$2.54	\$2.56	\$2.56	\$2.54	\$2.56	\$2.56
1965.....	2.56	2.58	2.59	2.59	2.60	2.59	2.60	2.61	2.61	2.63	2.63	2.62
1966.....	2.63	2.62	2.62	2.63	2.63	2.64	2.64	2.63	2.64	2.64	2.65	2.65
1967.....	2.66	2.66	2.67	2.67	2.67	2.68	2.69	2.69	2.68	2.68	2.69	2.69
1968.....	2.70	2.70	2.71	2.73	2.73	2.74	2.73	2.74	2.75	2.74	2.75	2.76
1969.....	2.76	2.77	2.76	2.76	2.77	2.78	2.77	2.78	2.77	2.78	2.78	2.77
1970.....	2.77	2.77	2.78	2.76	2.77	2.77	2.78	2.79	2.78	2.77	2.77	2.78
1971.....	2.80	2.81	2.83	2.83	2.84	2.84	2.84	2.85	2.85	2.86	2.86	2.87
1972.....	2.93	2.91	2.93	2.94	2.94	2.94	2.94	2.96	2.96	2.98	2.98	2.99
1973.....	2.99	2.98	2.97	2.97	2.96	2.96	2.99	2.94	2.95	2.94	2.94	2.93
1974.....	2.91	2.89	2.88	2.87	2.88	2.89	2.88	2.87	2.86	2.85	2.83	2.83
1975.....	2.81	2.81	2.81	2.81	2.82	2.82	2.80	2.81	2.81	2.80	2.81	2.80
1976.....	2.82	2.83	2.83	2.84	2.85	2.85	2.85	2.86	2.87	2.87	2.88	2.88
1977.....	2.88	2.87	2.88	2.88	2.89	2.89	2.89	2.89	2.90	2.91	2.90	2.90
1978.....	2.91	2.91	2.91	2.93	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91
1979.....	2.90	2.88	2.88	2.85	2.84	2.84	2.82	2.82	2.80	2.78	2.78	2.77
1980.....	2.74	2.72	2.71	2.70	2.69	2.68	2.70	2.70	2.69	2.69	2.69	2.68
GROSS AVERAGE WEEKLY EARNINGS - IN 1967 DOLLARS												
1964.....	\$96.12	\$97.39	\$97.28	\$97.94	\$98.02	\$97.90	\$98.30	\$99.04	\$98.15	\$98.40	\$98.92	\$99.74
1965.....	99.65	100.22	100.79	100.30	100.82	100.13	100.62	100.88	100.41	101.63	101.74	101.68
1966.....	101.72	102.01	101.83	101.65	101.58	101.88	102.05	101.43	101.65	101.73	101.75	101.64
1967.....	102.32	101.31	101.44	101.35	101.41	101.87	101.95	102.19	101.79	101.59	102.31	102.11
1968.....	101.91	102.42	102.59	102.48	103.37	103.70	103.57	103.52	104.12	103.71	103.38	103.79
1969.....	104.41	104.07	103.93	104.14	104.83	104.38	104.44	104.65	104.42	104.44	104.28	104.24
1970.....	103.47	103.58	103.59	102.69	102.89	102.89	103.46	103.46	102.42	102.17	102.36	102.47
1971.....	103.22	103.66	104.42	104.38	104.66	104.65	104.13	105.25	104.23	105.51	105.84	106.31
1972.....	107.95	107.72	108.53	109.24	108.60	108.72	108.67	109.29	109.65	110.57	110.13	110.05
1973.....	110.11	110.31	110.33	110.34	109.65	109.55	110.58	108.32	108.82	108.19	108.63	107.80
1974.....	106.62	106.40	105.66	104.40	105.68	105.71	105.31	104.60	104.61	103.79	102.29	102.08
1975.....	101.60	100.98	100.77	100.95	101.09	101.35	100.79	101.87	101.85	101.39	101.74	101.63
1976.....	102.76	102.85	102.03	102.44	103.09	102.81	102.84	103.01	103.02	103.18	103.60	103.68
1977.....	102.64	103.78	103.52	103.75	103.88	103.91	104.18	103.93	104.34	104.72	104.57	103.97
1978.....	103.40	104.00	104.43	105.52	104.30	104.41	104.59	104.20	104.16	104.41	104.05	104.05
1979.....	103.54	102.96	103.23	100.55	101.19	100.99	100.48	100.52	99.71	99.01	98.86	98.75
1980.....	97.44	96.53	95.90	95.20	94.28	93.88	94.24	94.62	94.68	94.81	95.10	94.70
SPENDABLE AVERAGE WEEKLY EARNINGS - IN 1967 DOLLARS²												
1964.....	\$87.15	\$88.17	\$88.08	\$88.61	\$88.66	\$88.56	\$88.87	\$89.45	\$88.73	\$88.92	\$89.30	\$89.99
1965.....	90.58	91.07	91.53	91.11	91.53	90.92	91.34	91.57	91.16	92.17	92.24	92.17
1966.....	91.43	91.60	91.42	91.25	91.18	91.40	91.51	90.96	91.11	91.14	91.15	91.05
1967.....	91.38	90.56	90.65	90.57	90.59	90.92	90.95	91.11	90.74	90.56	91.10	90.91
1968.....	90.71	91.08	91.20	90.80	91.44	91.65	91.49	91.39	91.80	91.43	91.12	91.40
1969.....	91.42	91.11	90.92	91.02	91.51	91.11	91.08	91.18	90.96	90.93	90.75	90.66
1970.....	90.78	90.80	90.78	90.01	90.13	90.10	90.52	90.50	89.63	89.38	89.49	89.54
1971.....	91.48	91.81	92.39	92.32	92.67	92.45	92.01	92.87	92.05	93.04	93.28	93.60
1972.....	96.25	96.01	96.64	97.18	96.64	96.72	96.64	97.11	97.34	98.04	97.65	97.56
1973.....	96.84	96.91	96.84	96.75	96.16	96.00	96.79	94.84	95.20	94.62	94.86	94.14
1974.....	93.11	92.81	92.15	91.10	91.99	91.91	91.55	90.86	90.75	90.03	88.78	88.53
1975.....	88.09	87.56	87.36	87.47	91.59	91.70	91.15	91.94	91.85	91.41	91.59	91.41
1976.....	91.55	91.61	90.95	91.24	91.68	91.42	91.37	91.41	91.34	91.40	91.65	91.64
1977.....	90.78	91.53	91.26	91.35	91.40	95.00	95.15	94.89	95.14	95.40	95.19	94.65
1978.....	92.41	92.80	93.02	93.74	92.71	92.67	92.69	92.32	92.16	92.22	91.85	91.75
1979.....	92.10	91.53	91.63	89.43	89.82	89.55	89.03	88.95	88.19	87.53	87.28	87.06
1980.....	85.90	85.06	84.42	83.79	82.99	82.59	82.85	83.05	82.97	82.95	83.06	82.64

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

² Married workers with 3 dependents who earned the average weekly earnings.

NOTE: The seasonally adjusted real earnings series, shown above, have been revised from January 1976 through December 1980, to reflect seasonal experience in the CPI-W through 1980.

CHARTS

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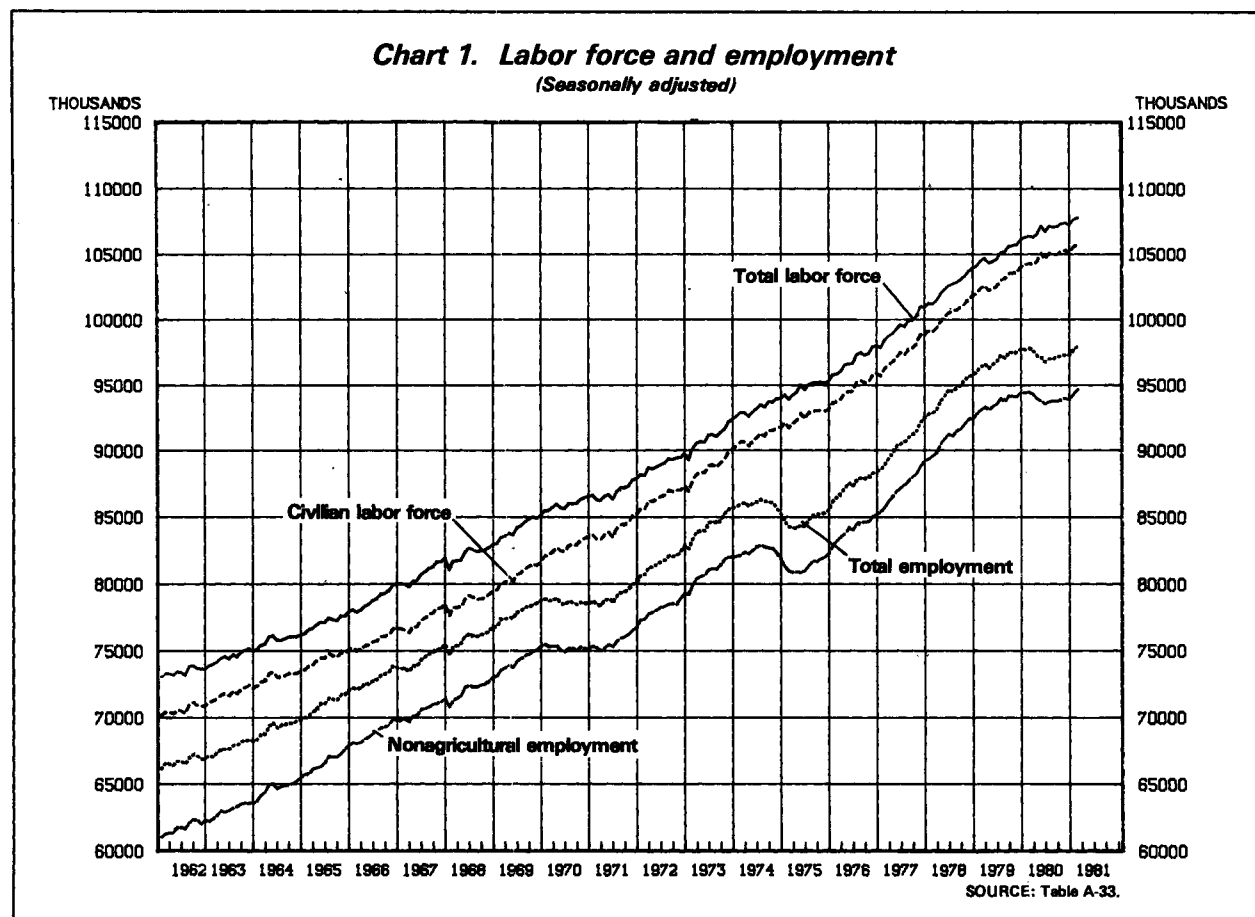


Chart 2. Major unemployment indicators
(Seasonally adjusted)

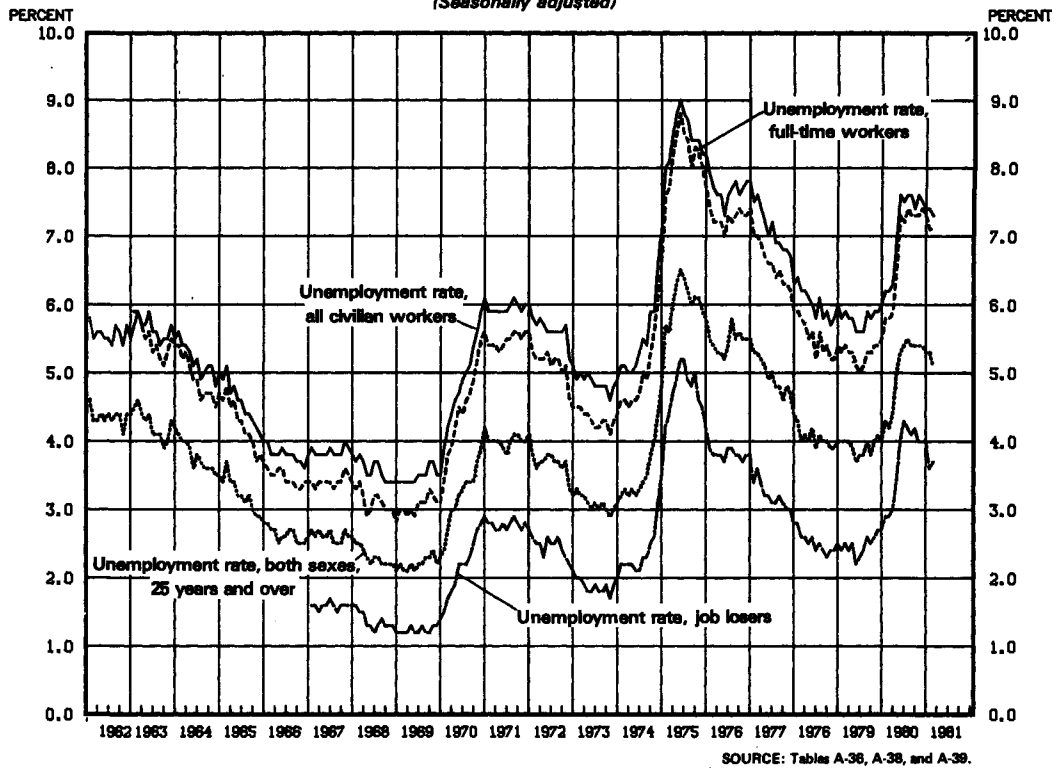


Chart 3. Civilian labor force participation rates by sex and age
(Seasonally adjusted)

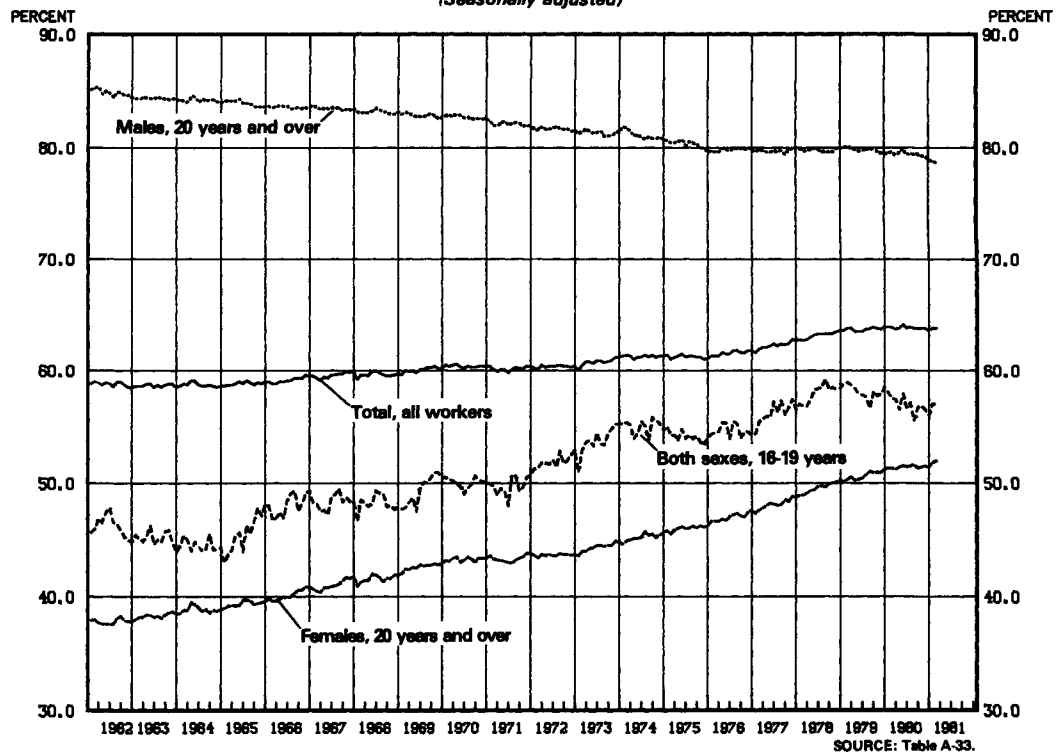
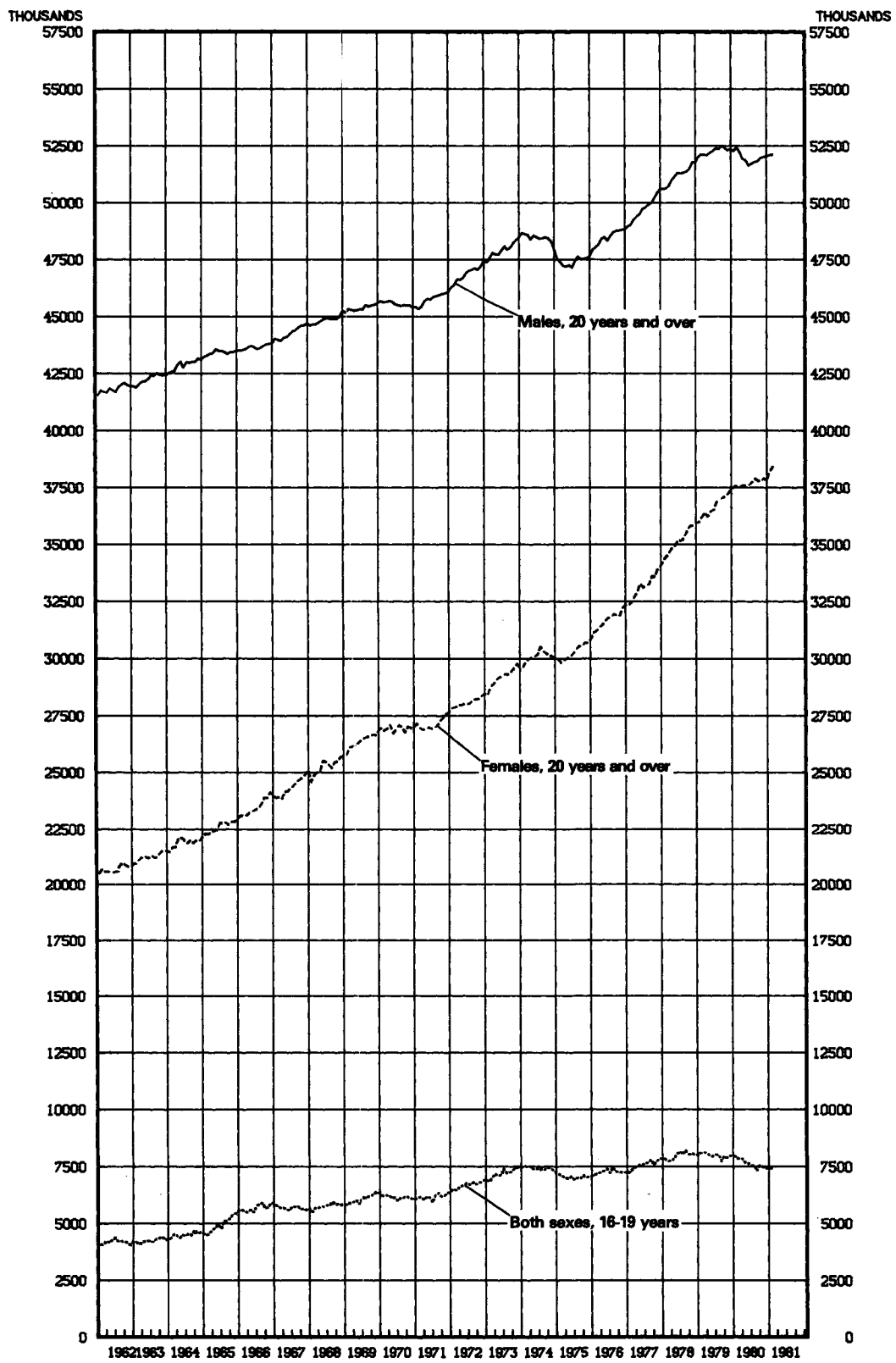


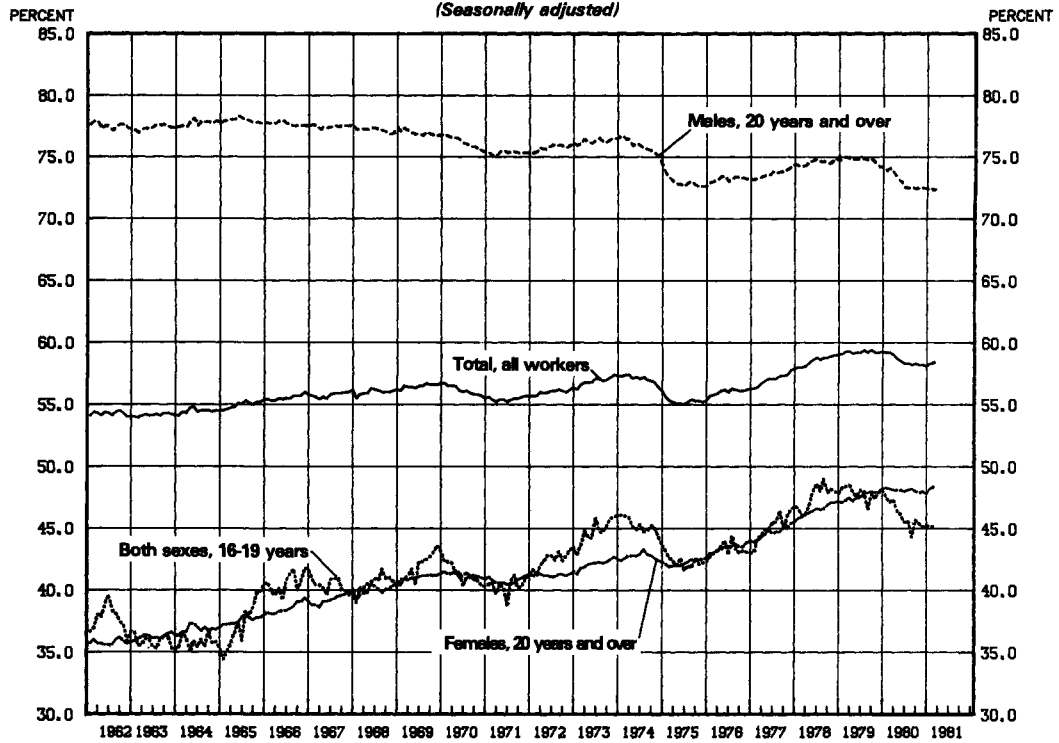
Chart 4. Total employment by sex and age

(Seasonally adjusted)



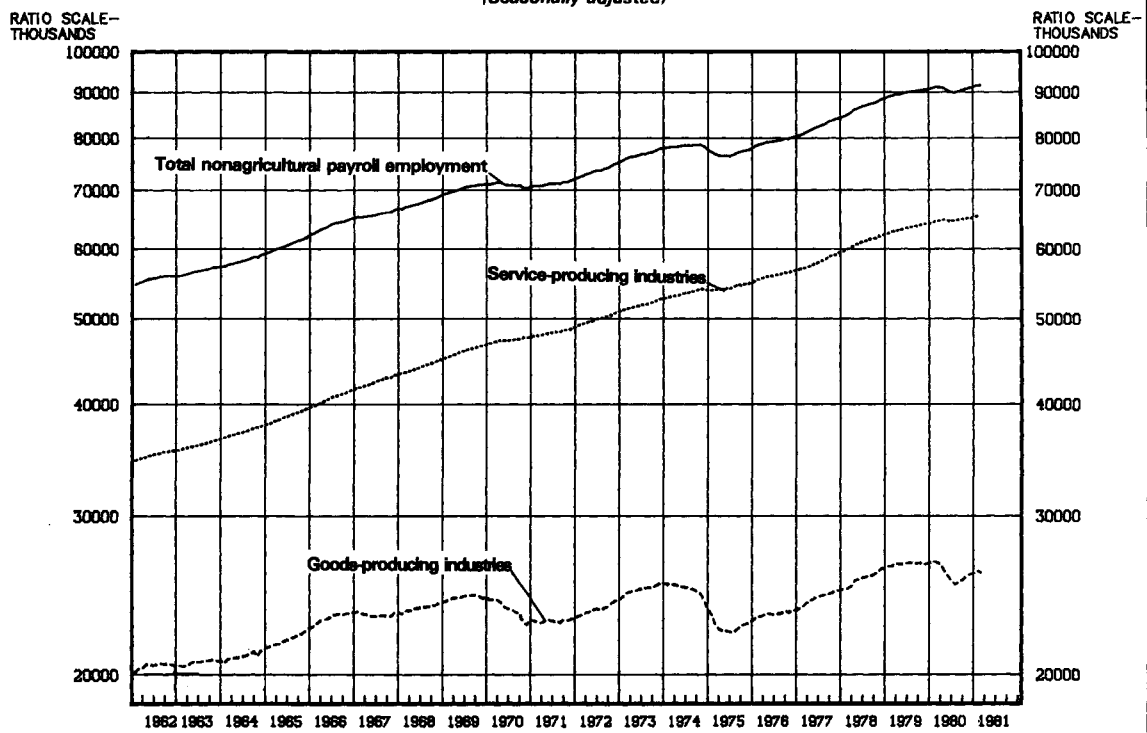
SOURCE: Table A-33.

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)

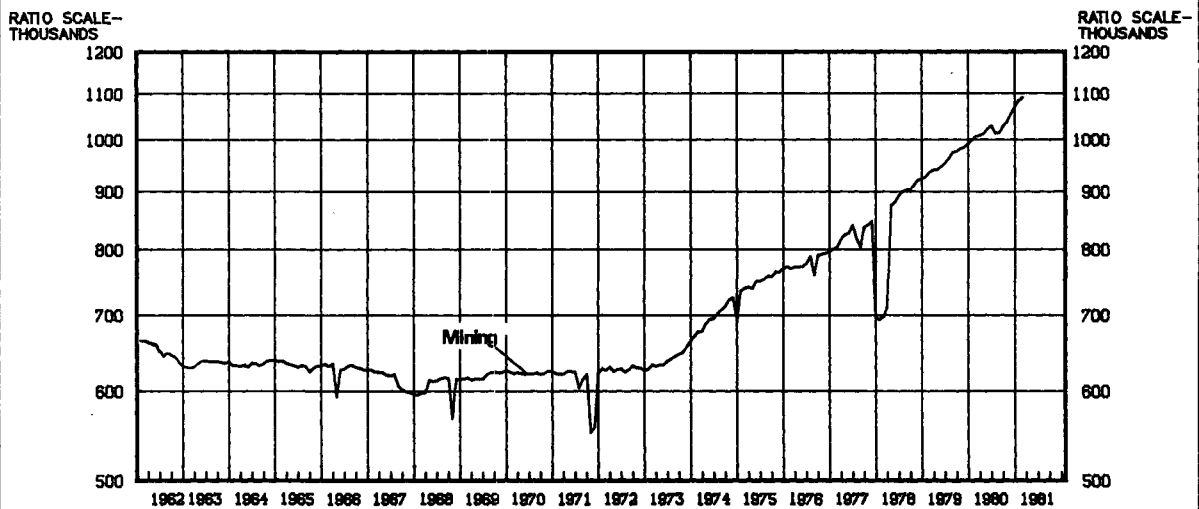
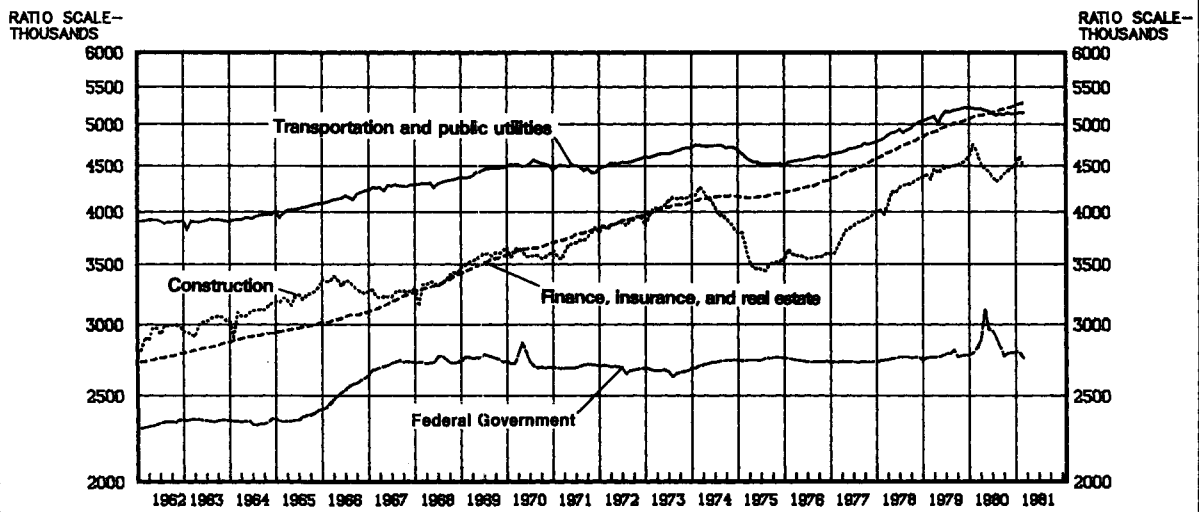
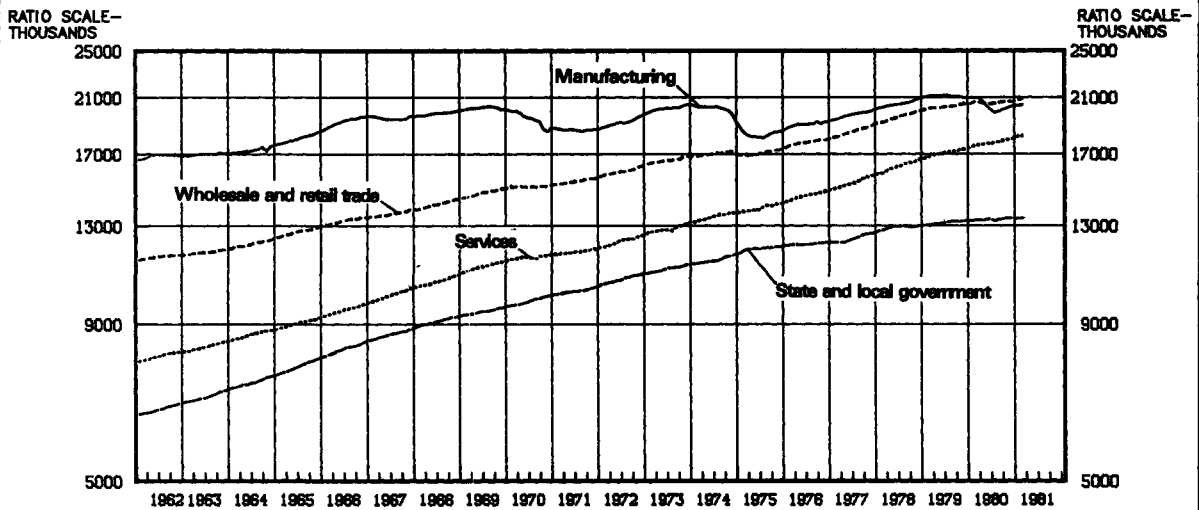


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

Chart 7. Nonagricultural payroll employment by industry

(Seasonally adjusted)

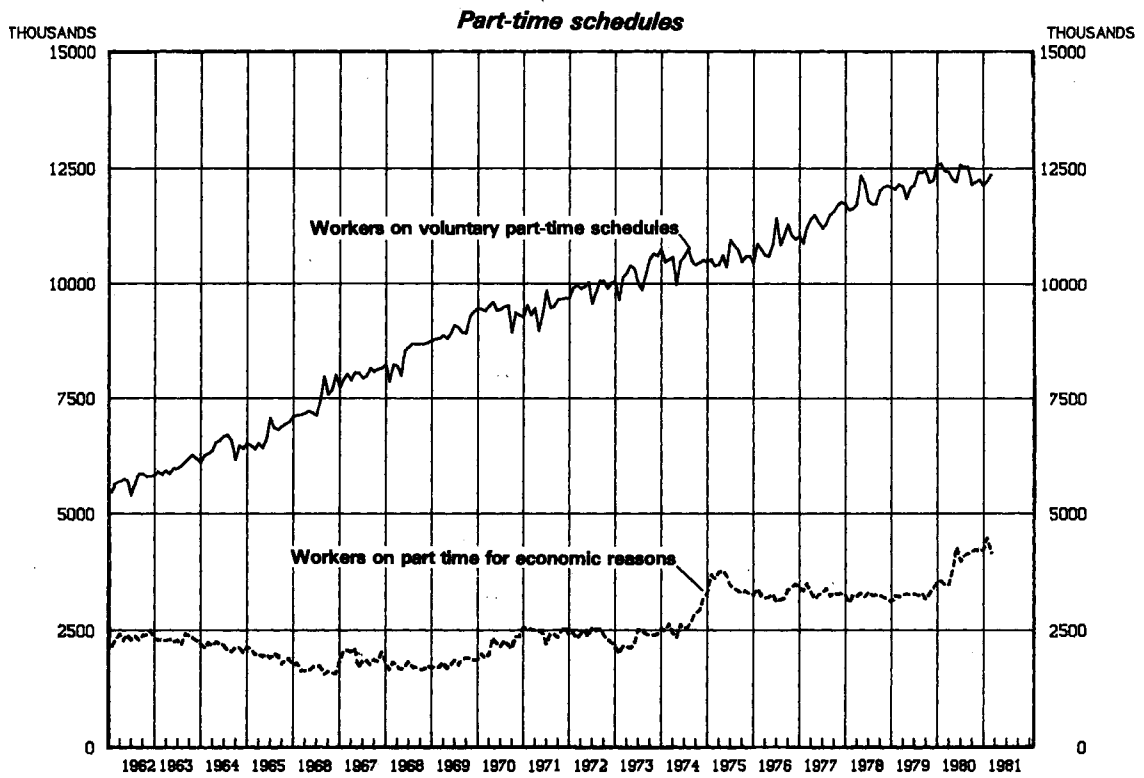
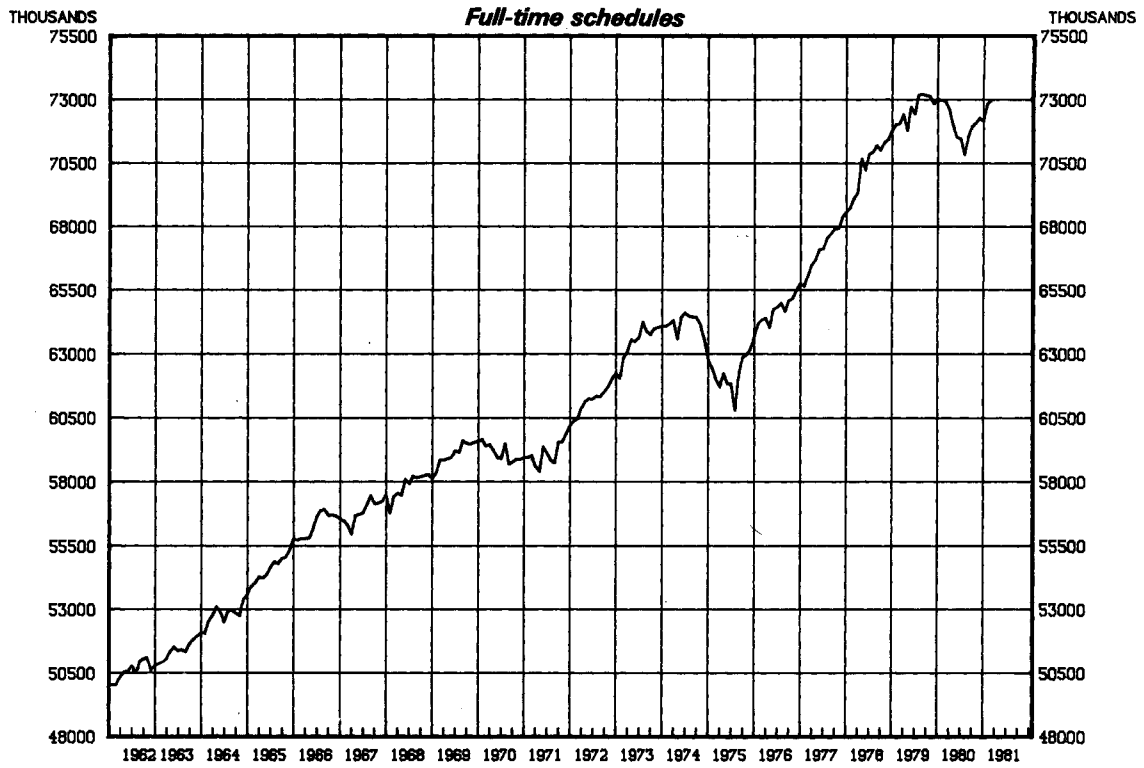


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

Chart 8. Persons at work full and part time in nonagricultural industries

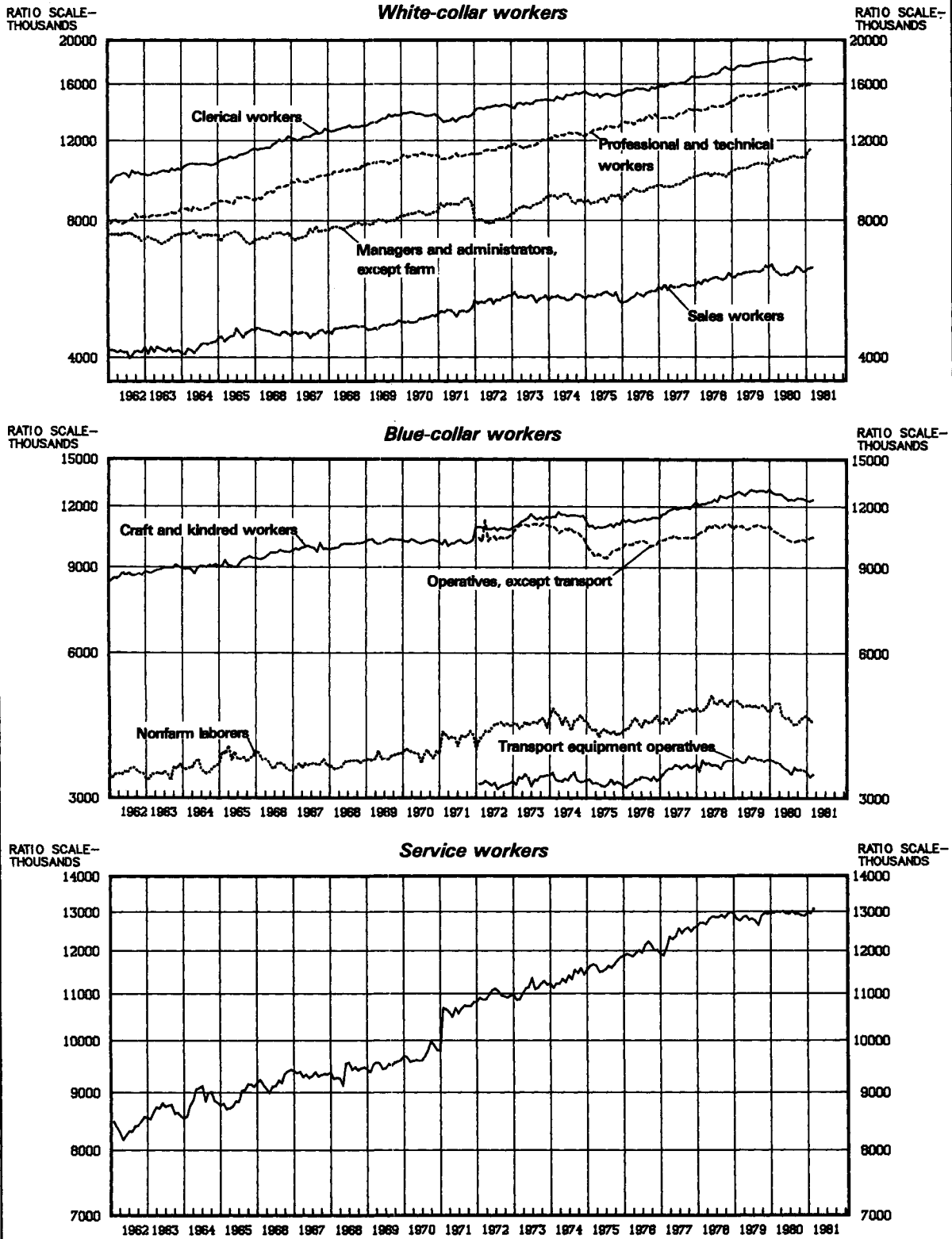
(Seasonally adjusted)



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 the occupational classification system" in the Explanatory Notes.

SOURCE: Table A-42.

Chart 10. Unemployment rates by sex and age

(Seasonally adjusted)

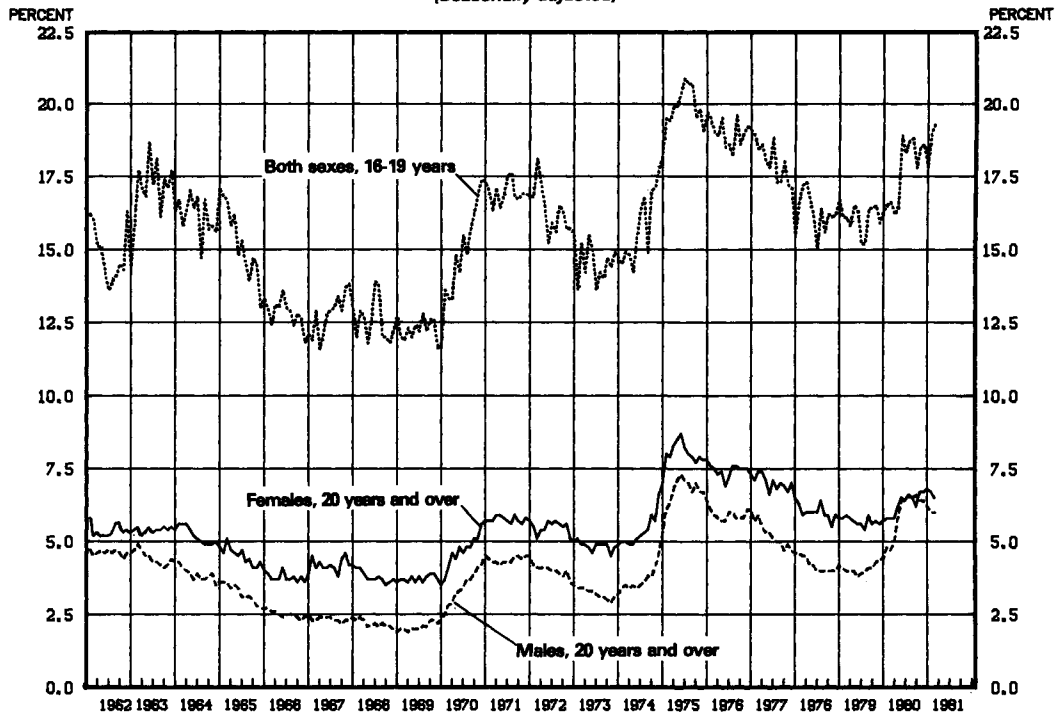
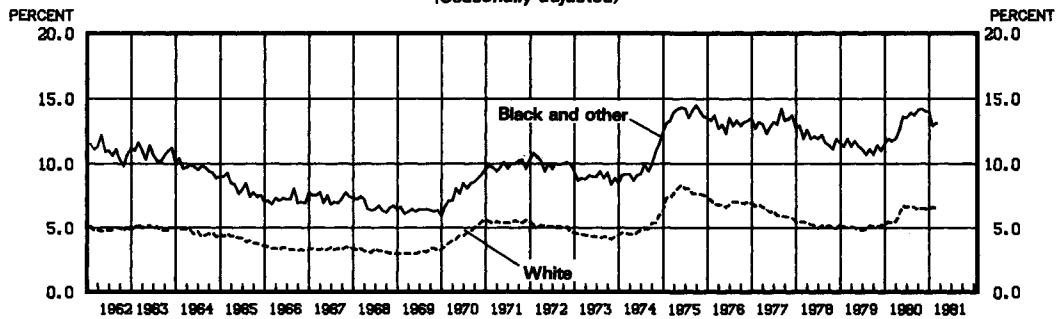
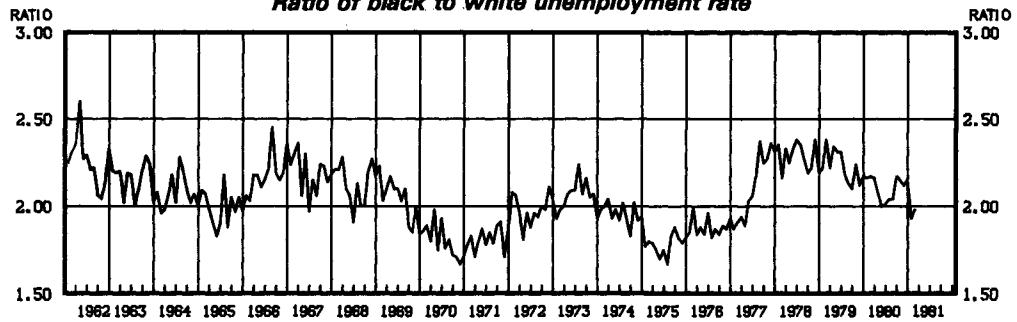


Chart 11. Unemployment rates by race

(Seasonally adjusted)

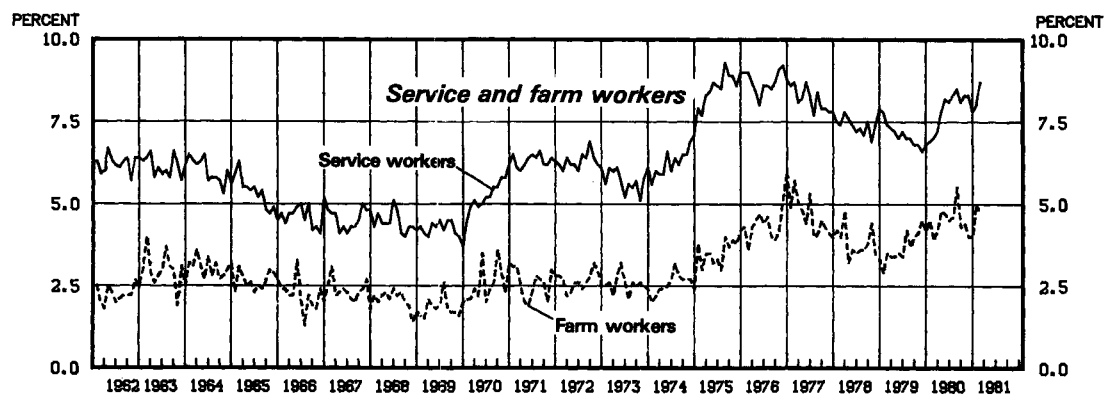
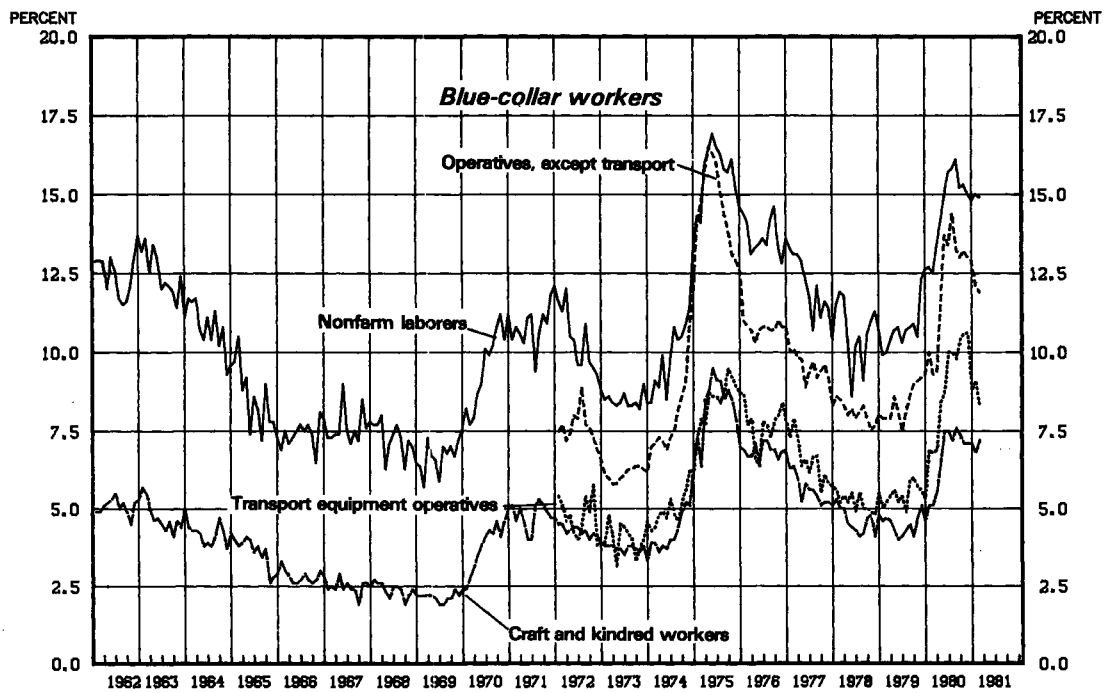
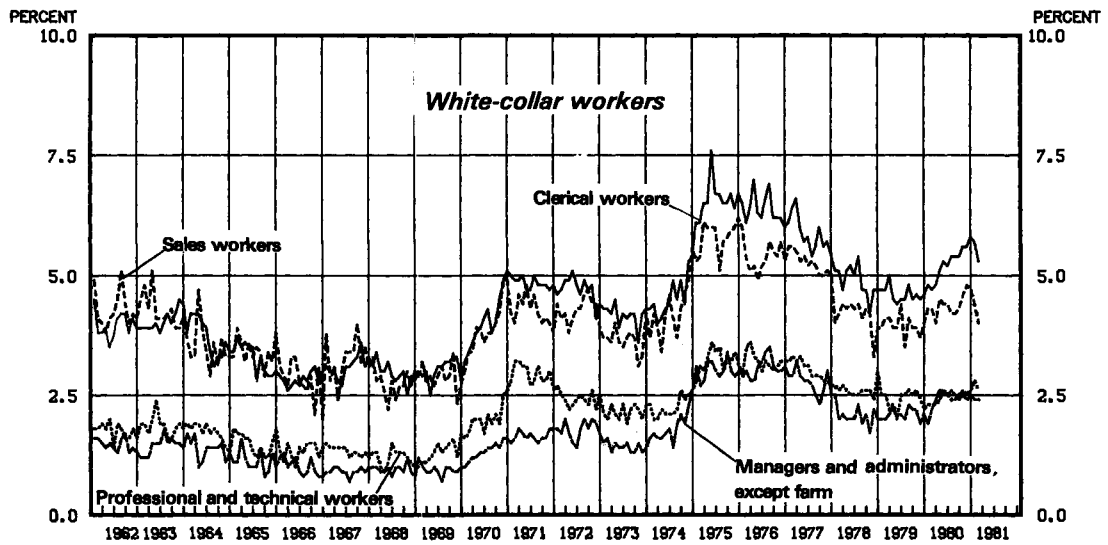


Ratio of black to white unemployment rate



SOURCE: Table A-35.

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

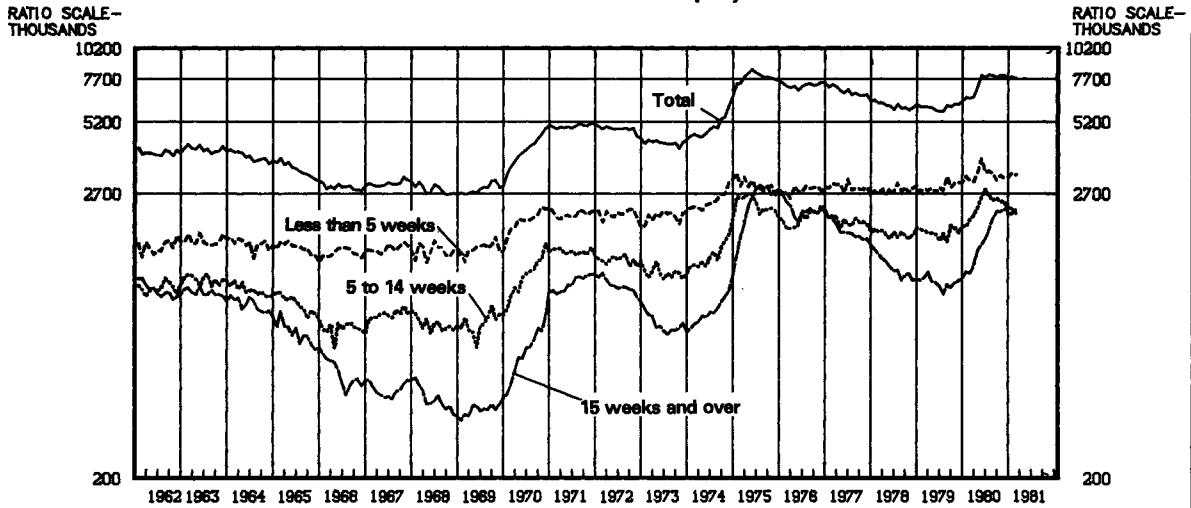


SOURCE: Table A-36.

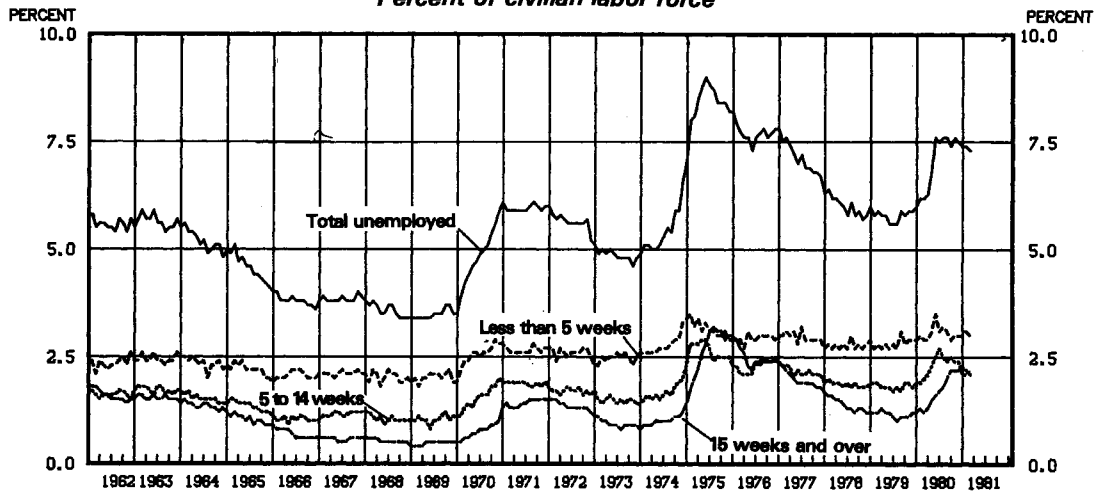
Chart 13. Duration of unemployment

(Seasonally adjusted)

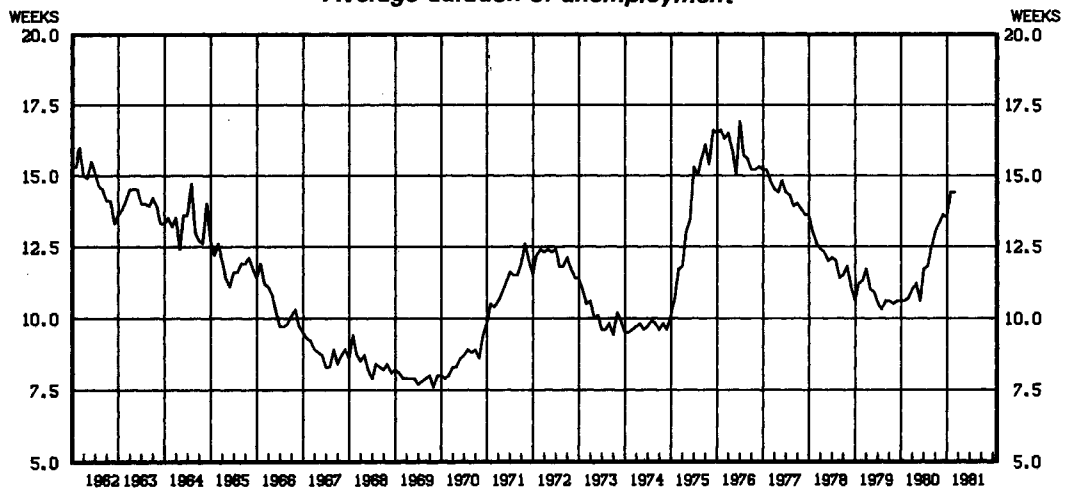
Number of workers unemployed



Percent of civilian labor force

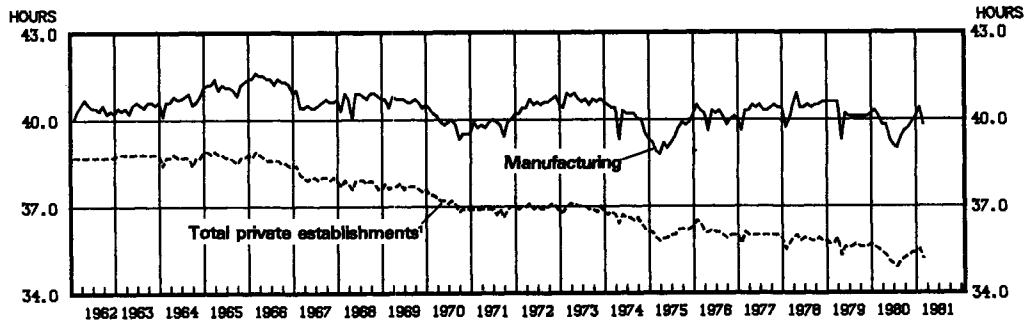


Average duration of unemployment

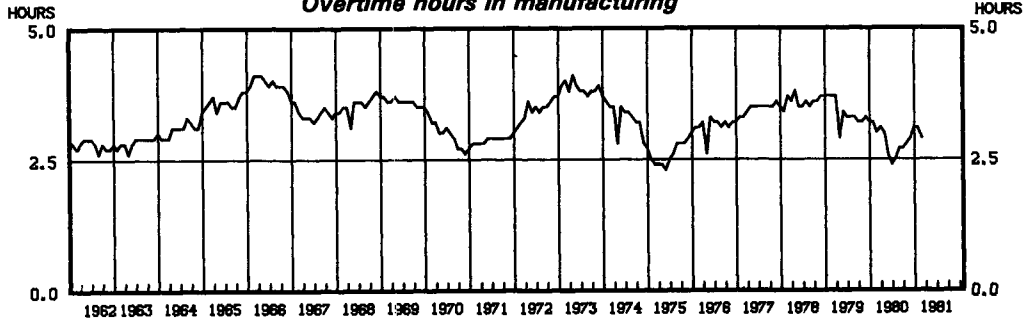


SOURCE: Table A-37.

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



Overtime hours in manufacturing

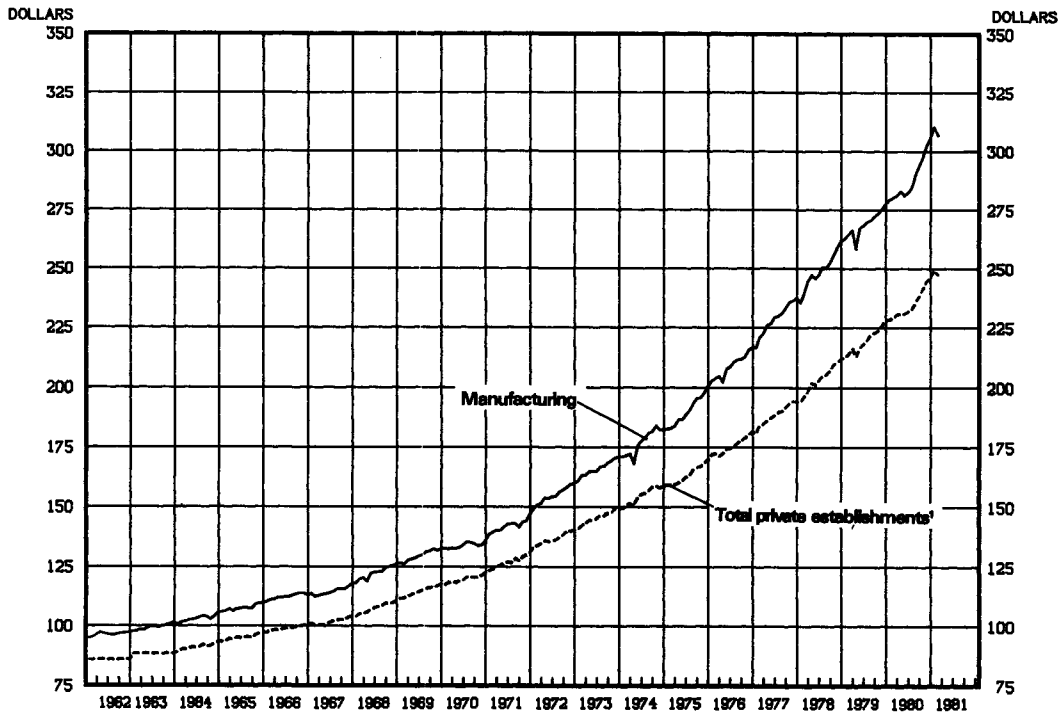


¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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



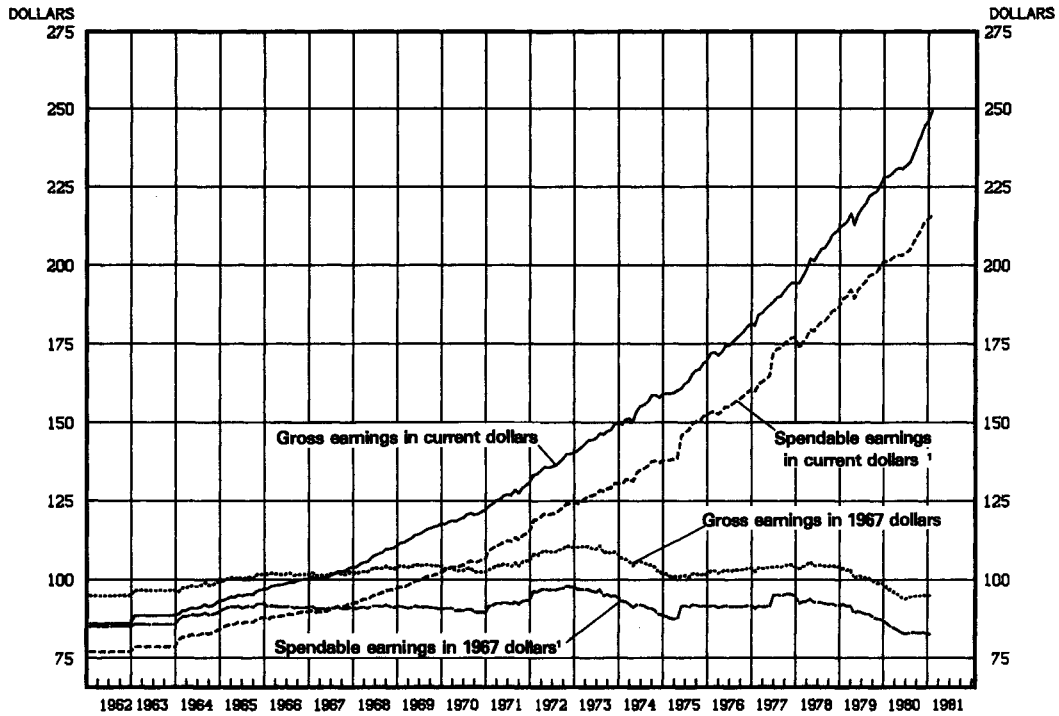
¹Annual averages prior to 1964.

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)



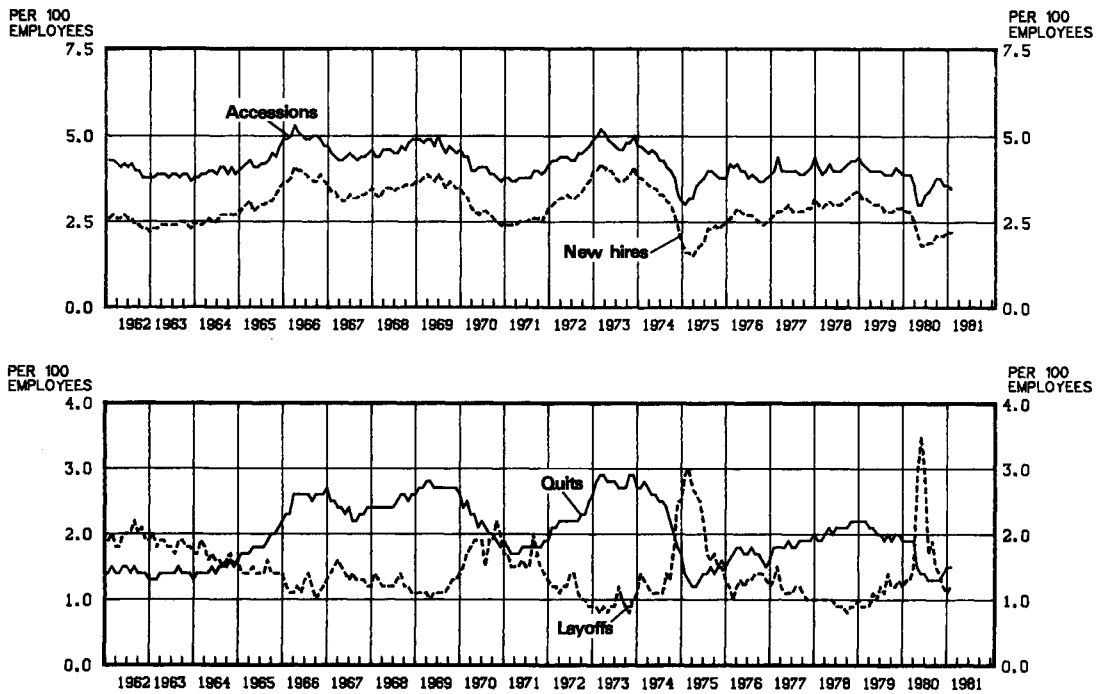
¹ Married worker with three dependents.

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	
Annual averages										
1947.....	133,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,523	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,607	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 ¹	110,603	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,670	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.....	113,808	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,069	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,360	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,879	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960 ¹	119,758	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962.....	122,980	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,153	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,223	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.....	135,561	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	52,291
1969.....	137,840	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.....	142,597	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 ¹	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 ¹	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,826	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,448	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
1978 ¹	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
1979.....	163,620	104,996	64.2	102,908	96,945	3,297	93,648	5,963	5.8	58,623
1980.....	166,246	106,821	64.3	104,719	97,270	3,310	93,960	7,448	7.1	59,425
Monthly data, seasonally adjusted ²										
1980:										
February.....	165,298	106,357	64.3	104,271	97,817	3,329	94,488	6,454	6.2	58,940
March.....	165,506	106,261	64.2	104,171	97,628	3,337	94,291	6,543	6.3	59,245
April.....	165,693	106,519	64.3	104,427	97,225	3,262	93,963	7,202	6.9	59,174
May.....	165,886	107,148	64.6	105,060	97,116	3,352	93,764	7,944	7.6	58,739
June.....	166,105	106,683	64.2	104,591	96,780	3,232	93,548	7,811	7.5	59,422
July.....	166,391	107,119	64.4	105,020	96,999	3,267	93,732	8,021	7.6	59,273
August.....	166,578	107,059	64.3	104,945	97,003	3,210	93,793	7,942	7.6	59,519
September.....	166,789	107,101	64.2	104,980	97,180	3,399	93,781	7,800	7.4	59,687
October.....	167,035	107,288	64.2	105,167	97,206	3,319	93,887	7,961	7.6	59,717
November.....	167,201	107,404	64.2	105,285	97,339	3,340	93,999	7,946	7.5	59,797
December.....	167,396	107,191	64.0	105,067	97,282	3,394	93,888	7,785	7.4	60,205
1981:										
January.....	167,585	107,668	64.2	105,543	97,696	3,403	94,294	7,847	7.4	59,917
February.....	167,747	107,802	64.3	105,681	97,927	3,281	94,646	7,754	7.3	59,946

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

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

HOUSEHOLD DATA HISTORICAL

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

(Numbers in thousands)

Sex, year, and month	Total noninsti- tutional popula- tion	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of popula- tion	Total	Employed			Unemployed		
					Total	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
MALES										
Annual averages										
1972 ¹	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 ¹	71,021	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,252	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978 ¹	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
1979.....	78,397	61,466	78.4	59,517	56,499	2,645	53,854	3,018	5.1	16,931
1980.....	79,642	62,088	78.0	60,145	55,988	2,664	53,324	4,157	6.9	17,554
Monthly data, seasonally adjusted ²										
1980:										
February..	79,196	61,946	78.2	60,009	56,631	2,700	53,931	3,378	5.6	17,250
March....	79,295	61,923	78.1	59,989	56,489	2,691	53,798	3,500	5.8	17,372
April....	79,382	61,983	78.1	60,048	56,054	2,623	53,431	3,994	6.7	17,399
May.....	79,472	62,388	78.5	60,457	55,914	2,669	53,245	4,543	7.5	17,084
June.....	79,575	62,028	77.9	60,093	55,597	2,605	52,992	4,496	7.5	17,548
July.....	79,710	62,208	78.0	60,271	55,678	2,635	53,043	4,593	7.6	17,502
August...	79,798	62,098	77.8	60,147	55,589	2,605	52,984	4,558	7.6	17,700
September	79,897	62,278	77.9	60,320	55,754	2,726	53,028	4,566	7.6	17,619
October..	80,000	62,335	77.9	60,379	55,881	2,668	53,213	4,498	7.4	17,665
November.	80,091	62,342	77.8	60,388	55,897	2,691	53,206	4,491	7.4	17,749
December.	80,183	62,213	77.6	60,254	55,920	2,651	53,269	4,334	7.2	17,970
1981:										
January..	80,272	62,320	77.6	60,366	56,012	2,712	53,300	4,353	7.2	17,952
February.	80,346	62,288	77.5	60,338	56,045	2,586	53,459	4,293	7.1	18,058
FEMALES										
Annual averages										
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.....	78,574	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	3,220	8.6	42,789
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
1978 ¹	83,890	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,887
1979.....	85,223	43,531	51.1	43,391	40,446	652	39,794	2,945	6.8	41,692
1980.....	86,604	44,733	51.7	44,574	41,283	646	40,637	3,291	7.4	41,871
Monthly data, seasonally adjusted ²										
1980:										
February..	86,102	44,412	51.6	44,262	41,186	629	40,557	3,076	6.9	41,690
March....	86,211	44,339	51.4	44,182	41,139	646	40,493	3,043	6.9	41,872
April....	86,311	44,536	51.6	44,379	41,171	639	40,532	3,208	7.2	41,775
May.....	86,414	44,759	51.8	44,603	41,202	683	40,519	3,401	7.6	41,655
June.....	86,530	44,655	51.6	44,498	41,183	627	40,556	3,315	7.4	41,875
July.....	86,681	44,910	51.8	44,749	41,321	632	40,689	3,428	7.7	41,771
August...	86,780	44,961	51.8	44,798	41,414	605	40,809	3,384	7.6	41,819
September	86,892	44,823	51.6	44,660	41,426	673	40,753	3,234	7.2	42,068
October..	87,006	44,953	51.7	44,788	41,325	651	40,674	3,463	7.7	42,053
November.	87,110	45,062	51.7	44,897	41,442	649	40,793	3,455	7.7	42,048
December.	87,213	44,978	51.6	44,813	41,362	743	40,619	3,451	7.7	42,235
1981:										
January..	87,313	45,349	51.9	45,178	41,684	691	40,993	3,493	7.7	41,964
February.	87,402	45,513	52.1	45,343	41,882	695	41,187	3,461	7.6	41,888

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

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

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	February 1981										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
MALES											
16 years and over	61,676	76.8	59,726	54,764	4,962	8.3	18,670	375	4,763	1,532	11,999
16 to 21 years	8,123	64.6	7,466	5,924	1,542	20.7	4,459	21	3,899	40	499
16 to 19 years	4,676	56.5	4,382	3,372	1,011	23.1	3,600	18	3,249	21	313
16 to 17 years	1,757	43.4	1,736	1,289	447	25.7	2,291	13	2,140	8	129
18 to 19 years	2,918	69.0	2,646	2,082	564	21.3	1,310	5	1,108	13	183
20 to 64 years	55,178	88.8	53,521	49,638	3,883	7.3	6,932	173	1,514	1,085	4,161
20 to 24 years	8,860	84.9	8,128	6,908	1,220	15.0	1,577	8	1,114	45	409
25 to 54 years	39,800	94.0	38,257	35,900	2,357	6.2	5,517	92	387	560	1,477
25 to 29 years	8,843	93.9	8,480	7,713	767	9.0	578	16	238	54	269
30 to 34 years	8,365	95.8	8,108	7,569	539	6.6	370	19	82	81	188
35 to 39 years	6,617	95.9	6,434	6,094	340	5.3	286	10	25	66	184
40 to 44 years	5,425	94.6	5,340	5,062	278	5.2	309	15	19	73	203
45 to 49 years	4,957	93.0	4,929	4,696	233	4.7	375	13	15	106	241
50 to 54 years	4,974	89.2	4,967	4,767	200	4.0	600	18	9	180	392
55 to 64 years	7,138	71.5	7,137	6,831	306	4.3	2,838	73	11	479	2,275
55 to 59 years	4,387	81.6	4,385	4,208	177	4.0	987	35	7	238	707
60 to 64 years	2,751	59.8	2,751	2,622	129	4.7	1,851	38	5	241	1,567
65 years and over	1,822	18.3	1,822	1,754	68	3.7	8,138	184	1	427	7,526
65 to 69 years	1,047	27.3	1,047	1,014	33	3.2	2,755	47	1	152	2,594
70 years and over	774	12.7	774	740	35	4.5	5,343	136	--	275	4,932
White											
16 years and over	54,804	77.7	53,299	49,251	4,047	7.6	15,730	298	3,807	1,221	10,404
16 to 21 years	7,150	67.2	6,657	5,400	1,257	18.9	3,483	17	3,107	30	329
16 to 19 years	4,150	59.6	3,926	3,102	825	21.0	2,817	16	2,576	15	210
16 to 17 years	1,597	47.2	1,580	1,202	379	24.0	1,790	13	1,680	6	91
18 to 19 years	2,552	71.3	2,346	1,900	446	19.0	1,027	3	896	9	119
20 to 64 years	49,020	89.8	47,738	44,570	3,168	6.6	5,591	119	1,230	851	3,390
20 to 24 years	7,709	86.3	7,168	6,171	997	13.9	1,225	6	918	35	267
25 to 54 years	34,790	94.8	34,051	32,150	1,900	5.6	1,891	63	303	420	1,104
25 to 29 years	15,171	95.6	14,687	13,640	1,047	7.1	693	22	256	93	321
30 to 34 years	10,738	96.1	10,514	10,019	495	4.7	433	17	29	106	281
35 to 44 years	8,880	92.1	8,849	8,491	358	4.1	765	24	17	221	502
55 to 64 years	6,521	72.5	6,520	6,249	271	4.2	2,475	50	9	396	2,019
55 to 59 years	4,002	82.8	4,001	3,849	152	3.8	833	21	5	196	612
60 to 64 years	2,519	60.5	2,518	2,400	119	4.7	1,641	30	4	201	1,407
65 years and over	1,634	18.2	1,634	1,579	55	3.4	7,322	163	1	354	6,804
Black and other											
16 years and over	6,872	70.0	6,427	5,513	914	14.2	2,940	77	956	312	1,595
16 to 21 years	973	49.9	809	524	285	35.2	976	4	792	10	170
16 to 19 years	526	40.2	456	270	186	40.8	783	2	673	5	103
16 to 17 years	160	24.2	156	88	68	43.7	501	1	460	2	38
18 to 19 years	366	56.5	300	182	118	39.3	282	2	212	4	64
20 to 64 years	6,159	82.1	5,784	5,069	715	12.4	1,341	53	284	233	771
20 to 24 years	1,150	76.6	960	737	223	23.2	351	2	196	11	142
25 to 54 years	4,392	87.5	4,207	3,750	457	10.9	625	29	84	140	373
25 to 29 years	2,037	88.9	1,901	1,641	260	13.7	254	13	64	42	136
30 to 34 years	1,304	89.0	1,259	1,137	123	9.8	161	8	15	33	106
35 to 44 years	1,051	83.3	1,047	972	75	7.1	210	8	6	65	131
55 to 64 years	617	62.9	617	582	35	5.7	364	23	3	83	256
55 to 59 years	384	71.4	384	359	25	6.5	154	14	2	42	95
60 to 64 years	233	52.5	233	223	10	4.3	210	8	1	40	160
65 years and over	187	18.7	187	174	13	6.9	816	21	--	73	722

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

(Numbers in thousands)

Sex, age, and race	February 1981										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
FEMALES											
16 years and over	45,253	51.8	45,082	41,619	3,463	7.7	42,149	31,070	4,878	1,101	5,100
16 to 21 years	6,642	53.9	6,574	5,523	1,051	16.0	5,671	1,313	3,998	21	339
16 to 19 years	3,913	48.4	3,883	3,174	709	18.2	4,173	614	3,332	5	223
16 to 17 years	1,502	38.3	1,500	1,197	303	20.2	2,415	143	2,192	1	78
18 to 19 years	2,411	57.8	2,383	1,978	406	17.0	1,758	471	1,140	3	144
20 to 64 years	40,200	61.8	40,060	37,350	2,710	6.8	24,872	20,853	1,536	474	2,007
20 to 24 years	7,152	68.6	7,071	6,309	762	10.8	3,272	1,984	1,012	36	240
25 to 54 years	28,410	65.3	28,352	26,607	1,746	6.2	15,087	13,412	507	226	941
25 to 29 years	6,468	67.3	6,428	5,890	537	8.4	3,136	2,732	193	31	179
30 to 34 years	5,855	65.3	5,843	5,460	383	6.6	3,112	2,760	145	27	181
35 to 39 years	4,807	66.3	4,804	4,529	275	5.7	2,442	2,214	82	23	124
40 to 44 years	4,095	67.3	4,094	3,895	199	4.8	1,992	1,811	46	35	100
45 to 49 years	3,683	65.4	3,682	3,504	178	4.8	1,950	1,757	25	34	134
50 to 54 years	3,502	58.8	3,502	3,328	174	5.0	2,455	2,139	16	76	224
55 to 64 years	4,637	41.6	4,637	4,435	202	4.4	6,513	5,458	17	213	825
55 to 59 years	2,904	49.1	2,904	2,772	131	4.5	3,012	2,582	15	98	317
60 to 64 years	1,734	33.1	1,734	1,663	71	4.1	3,501	2,876	2	115	508
65 years and over	1,139	8.0	1,139	1,094	45	3.9	13,104	9,603	10	622	2,870
65 to 69 years	712	14.9	712	673	39	5.4	4,074	3,169	4	126	775
70 years and over	427	4.5	427	421	6	1.5	9,030	6,434	5	496	2,095
White											
16 years and over	39,191	51.7	39,067	36,410	2,657	6.8	36,679	27,683	3,772	865	4,359
16 to 21 years	5,896	57.1	5,848	5,036	812	13.9	4,424	1,059	3,103	16	246
16 to 19 years	3,522	52.1	3,501	2,922	579	16.6	3,240	509	2,565	4	162
16 to 17 years	1,374	42.1	1,373	1,112	261	19.0	1,887	127	1,694	1	65
18 to 19 years	2,148	61.3	2,128	1,810	318	15.0	1,354	382	871	3	97
20 to 64 years	34,660	61.7	34,557	32,517	2,039	5.9	21,559	18,339	1,197	342	1,682
20 to 24 years	6,199	70.6	6,140	5,587	553	9.0	2,584	1,593	793	17	181
25 to 54 years	24,353	65.0	24,309	22,999	1,310	5.4	13,101	11,763	390	163	785
25 to 29 years	10,459	66.0	10,420	9,763	657	6.3	5,378	4,796	244	48	289
30 to 34 years	7,639	66.4	7,635	7,267	368	4.8	3,871	3,533	112	41	184
35 to 44 years	6,255	61.9	6,254	5,969	285	4.5	3,852	3,434	34	73	311
45 to 54 years	4,108	41.2	4,108	3,932	176	4.3	5,875	4,983	14	162	716
55 to 59 years	2,577	48.8	2,577	2,462	115	4.5	2,705	2,337	12	77	279
60 to 64 years	1,531	32.6	1,531	1,470	61	4.0	3,170	2,646	2	84	438
65 years and over	1,009	7.8	1,009	971	39	3.8	11,879	8,835	10	519	2,515
Black and other											
16 years and over	6,061	52.6	6,015	5,209	806	13.4	5,470	3,387	1,106	237	741
16 to 21 years	746	37.4	726	487	239	32.9	1,247	254	895	5	93
18 to 19 years	391	29.5	382	253	129	33.8	933	105	766	1	61
16 to 17 years	128	19.5	127	85	42	33.1	528	16	498	1	13
18 to 19 years	263	39.4	255	168	87	34.2	405	89	269	--	47
20 to 64 years	5,540	62.6	5,503	4,832	671	12.2	3,312	2,514	339	133	325
20 to 24 years	953	58.1	931	722	209	22.4	688	390	219	19	60
25 to 54 years	4,059	67.2	4,044	3,608	436	10.8	1,986	1,649	117	63	157
25 to 29 years	1,864	68.2	1,850	1,587	263	14.2	870	696	93	10	71
30 to 34 years	1,263	69.2	1,263	1,158	105	8.3	563	491	16	16	40
35 to 44 years	930	62.7	930	863	68	7.3	553	462	7	37	47
45 to 54 years	529	45.3	529	503	26	5.0	638	475	3	51	109
55 to 59 years	326	51.5	326	310	16	5.0	307	245	3	21	38
60 to 64 years	203	38.0	203	193	10	5.0	331	230	--	30	71
65 years and over	130	9.6	130	124	6	4.8	1,226	768	--	103	355

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
MALES								
16 years and over	61,176	61,676	77.2	76.8	59,239	59,726	76.7	76.2
16 to 19 years	4,775	4,676	56.8	56.5	4,490	4,382	55.3	54.9
16 to 17 years	1,822	1,757	44.1	43.4	1,804	1,736	43.8	43.1
18 to 19 years	2,952	2,918	69.2	69.0	2,686	2,646	67.1	66.9
20 to 24 years	8,844	8,860	85.6	84.9	8,114	8,128	84.5	83.8
25 to 54 years	38,480	39,180	94.2	94.0	37,560	38,257	94.1	93.8
25 to 34 years	16,718	17,208	95.4	94.8	16,108	16,588	95.2	94.6
35 to 44 years	11,754	12,042	95.3	95.3	11,480	11,774	95.2	95.2
45 to 54 years	10,007	9,931	91.2	91.1	9,971	9,896	91.1	91.0
55 to 64 years	7,162	7,138	72.6	71.5	7,161	7,137	72.6	71.5
55 to 59 years	4,431	4,387	82.5	81.6	4,430	4,385	82.5	81.6
60 to 64 years	2,731	2,751	60.8	59.8	2,731	2,751	60.8	59.8
65 years and over	1,914	1,822	19.6	18.3	1,914	1,822	19.6	18.3
White								
16 years and over	54,401	54,804	78.1	77.7	52,894	53,299	77.6	77.2
16 to 19 years	4,248	4,150	59.8	59.6	4,035	3,926	58.6	58.2
16 to 17 years	1,663	1,597	47.8	47.2	1,648	1,580	47.6	46.9
18 to 19 years	2,585	2,552	71.3	71.3	2,386	2,346	69.6	69.5
20 to 24 years	7,682	7,709	86.7	86.3	7,134	7,168	85.8	85.4
25 to 54 years	34,188	34,790	95.0	94.8	33,444	34,051	94.9	94.7
25 to 34 years	14,759	15,171	96.1	95.6	14,276	14,687	96.0	95.5
35 to 44 years	10,477	10,738	96.0	96.1	10,248	10,514	96.0	96.0
45 to 54 years	8,952	8,880	92.0	92.1	8,920	8,849	92.0	92.0
55 to 64 years	6,558	6,521	73.6	72.5	6,557	6,520	73.6	72.5
55 to 59 years	4,051	4,002	83.7	82.8	4,050	4,001	83.7	82.8
60 to 64 years	2,507	2,519	61.6	60.5	2,507	2,518	61.6	60.5
65 years and over	1,725	1,634	19.6	18.2	1,725	1,634	19.6	18.2
Black and other								
16 years and over	6,775	6,872	71.1	70.0	6,345	6,427	69.7	68.6
16 to 19 years	527	526	40.5	40.2	455	456	37.0	36.8
16 to 17 years	159	160	24.1	24.2	155	156	23.7	23.8
18 to 19 years	368	366	57.3	56.5	300	300	52.3	51.5
20 to 24 years	1,162	1,150	79.3	76.6	981	960	76.4	73.2
25 to 54 years	4,292	4,392	88.7	87.5	4,116	4,207	88.3	87.1
25 to 34 years	1,959	2,037	90.5	88.9	1,832	1,901	89.9	88.2
35 to 44 years	1,277	1,304	89.8	89.0	1,232	1,259	89.5	88.6
45 to 54 years	1,056	1,051	84.6	83.3	1,052	1,047	84.5	83.3
55 to 64 years	604	617	63.4	62.9	604	617	63.4	62.9
55 to 59 years	380	384	71.7	71.4	380	384	71.7	71.4
60 to 64 years	224	233	53.0	52.5	224	233	53.0	52.5
65 years and over	189	187	19.3	18.7	189	187	19.3	18.7

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	
	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
FEMALES								
16 years and over	44,168	45,253	51.3	51.8	44,018	45,082	51.2	51.7
16 to 19 years	4,054	3,913	49.4	48.4	4,027	3,883	49.2	48.2
16 to 17 years	1,557	1,502	38.9	38.3	1,555	1,500	38.9	38.3
18 to 19 years	2,497	2,411	59.3	57.8	2,472	2,383	59.0	57.5
20 to 24 years	6,956	7,152	67.4	68.6	6,882	7,071	67.2	68.4
25 to 54 years	27,365	28,410	64.2	65.3	27,315	28,352	64.2	65.3
25 to 34 years	11,823	12,323	66.0	66.4	11,778	12,270	65.9	66.3
35 to 44 years	8,524	8,902	65.5	66.8	8,520	8,897	65.5	66.7
45 to 54 years	7,019	7,185	60.1	62.0	7,018	7,184	60.1	62.0
55 to 64 years	4,643	4,637	42.1	41.6	4,643	4,637	42.1	41.6
55 to 59 years	2,920	2,904	49.4	49.1	2,920	2,904	49.4	49.1
60 to 64 years	1,724	1,734	33.7	33.1	1,724	1,734	33.7	33.1
65 years and over	1,150	1,139	8.3	8.0	1,150	1,139	8.3	8.0
White								
16 years and over	38,240	39,191	51.1	51.7	38,135	39,067	51.0	51.6
16 to 19 years	3,585	3,522	52.0	52.1	3,566	3,501	51.9	51.9
16 to 17 years	1,410	1,374	42.1	42.1	1,408	1,373	42.1	42.1
18 to 19 years	2,175	2,148	61.3	61.3	2,157	2,128	61.1	61.1
20 to 24 years	6,012	6,199	69.0	70.6	5,957	6,140	68.8	70.4
25 to 54 years	23,487	24,353	63.8	65.0	23,448	24,309	63.8	65.0
25 to 34 years	10,052	10,459	65.6	66.0	10,018	10,420	65.5	66.0
35 to 44 years	7,313	7,639	65.0	66.4	7,310	7,635	65.0	66.4
45 to 54 years	6,121	6,255	59.9	61.9	6,121	6,254	59.9	61.9
55 to 64 years	4,147	4,108	41.9	41.2	4,147	4,108	41.9	41.2
55 to 59 years	2,593	2,577	49.1	48.8	2,593	2,577	49.1	48.8
60 to 64 years	1,554	1,531	33.7	32.6	1,554	1,531	33.7	32.6
65 years and over	1,017	1,009	8.1	7.8	1,017	1,009	8.1	7.8
Black and other								
16 years and over	5,920	6,061	52.9	52.6	5,803	6,015	52.7	52.4
16 to 19 years	469	391	35.5	29.5	462	382	35.2	29.0
16 to 17 years	148	128	22.5	19.5	147	127	22.4	19.4
18 to 19 years	321	263	48.4	39.4	315	255	47.9	38.6
20 to 24 years	943	953	58.9	58.1	926	931	58.4	57.5
25 to 54 years	3,878	4,059	66.6	67.2	3,866	4,044	66.5	67.1
25 to 34 years	1,770	1,864	68.3	68.2	1,759	1,850	68.2	68.0
35 to 44 years	1,210	1,263	68.5	69.2	1,210	1,263	68.5	69.2
45 to 54 years	897	930	61.3	62.7	897	930	61.2	62.7
55 to 64 years	496	529	43.9	45.3	496	529	43.9	45.3
55 to 59 years	327	326	52.6	51.5	327	326	52.6	51.5
60 to 64 years	169	203	33.2	38.0	169	203	33.2	38.0
65 years and over	133	130	10.1	9.6	133	130	10.1	9.6

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

[Numbers in thousands]

Sex and age	February 1981						Not in labor force
	Civilian labor force					Total	
	Total	Employed		Unemployed			
		Total	Agriculture	Nonagricultural industries	Number			Percent of labor force
TOTAL							
16 years and over	10,506	8,936	175	8,761	1,570	14.9	7,162
16 to 19 years	735	440	15	424	295	40.2	1,494
16 to 17 years	248	147	6	140	101	40.8	902
18 to 19 years	487	293	9	284	194	39.8	592
20 to 24 years	1,623	1,222	16	1,207	401	24.7	863
25 to 54 years	6,889	6,080	100	5,982	809	11.7	2,145
25 to 34 years	3,109	2,636	19	2,617	473	15.2	897
35 to 44 years	2,116	1,912	42	1,870	203	9.6	610
45 to 54 years	1,665	1,533	37	1,495	132	7.9	638
55 to 64 years	986	933	23	910	53	5.4	885
55 to 59 years	609	573	14	558	36	6.0	398
60 to 64 years	377	360	8	352	17	4.5	487
65 years and over	272	260	23	237	12	4.4	1,774
Males							
16 years and over	5,410	4,573	160	4,413	837	15.5	2,503
16 to 19 years	401	228	13	214	173	43.1	672
16 to 17 years	138	76	5	69	62	44.9	434
18 to 19 years	263	152	8	144	111	42.2	238
20 to 24 years	820	618	10	609	203	24.8	283
25 to 54 years	3,514	3,088	95	2,995	427	12.2	522
25 to 34 years	1,567	1,324	18	1,306	243	15.5	205
35 to 44 years	1,058	948	40	908	109	10.3	143
45 to 54 years	890	817	35	781	73	8.2	175
55 to 64 years	519	490	21	469	28	5.4	334
55 to 59 years	320	299	14	284	21	6.6	141
60 to 64 years	199	192	6	186	7	3.5	193
65 years and over	155	148	23	125	7	4.5	691
Females							
16 years and over	5,096	4,363	15	4,348	733	14.4	4,659
16 to 19 years	334	212	2	210	122	36.4	822
16 to 17 years	110	71	1	71	39	35.1	468
18 to 19 years	224	141	1	140	83	37.1	354
20 to 24 years	803	604	6	598	198	24.7	580
25 to 54 years	3,375	2,992	5	2,987	382	11.3	1,623
25 to 34 years	1,542	1,312	1	1,311	230	14.9	692
35 to 44 years	1,058	964	2	962	94	8.9	407
45 to 54 years	775	716	2	714	59	7.6	463
55 to 64 years	467	443	2	441	25	5.3	551
55 to 59 years	289	274	--	274	15	5.1	257
60 to 64 years	178	168	2	166	10	5.7	294
65 years and over	117	112	--	112	5	4.6	1,083

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

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

[Numbers in thousands]

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
TOTAL								
Total noninstitutional population	165,298	167,747	70,792	72,070	77,890	79,315	16,616	16,362
Total labor force	105,343	106,928	56,401	57,000	40,114	41,339	8,829	8,589
Percent of population	63.7	63.7	79.7	79.1	51.5	52.1	53.1	52.5
Civilian labor force	103,257	104,808	54,749	55,343	39,991	41,199	8,517	8,265
Employed	96,264	96,383	51,658	51,392	37,609	38,444	6,997	6,546
Agriculture	2,836	2,773	2,213	2,097	424	461	198	215
Nonagricultural industries	93,428	93,609	49,445	49,296	37,185	37,983	6,798	6,331
Unemployed	6,993	8,425	3,091	3,951	2,382	2,755	1,520	1,719
Percent of labor force	6.8	8.0	5.6	7.1	6.0	6.7	17.9	20.8
Not in labor force	59,954	60,819	14,391	15,070	37,776	37,976	7,788	7,773
White								
Total noninstitutional population	144,570	146,403	62,560	63,567	68,016	69,107	13,995	13,730
Total labor force	92,649	93,995	50,153	50,654	34,663	35,669	7,833	7,672
Percent of population	64.1	64.2	80.2	79.7	51.0	51.6	56.0	55.9
Civilian labor force	91,029	92,366	48,860	49,372	34,569	35,566	7,600	7,428
Employed	85,540	85,661	46,403	46,149	32,701	33,488	6,435	6,024
Agriculture	2,567	2,540	1,984	1,904	398	438	185	197
Nonagricultural industries	82,972	83,121	44,419	44,245	32,303	33,050	6,250	5,826
Unemployed	5,490	6,704	2,457	3,223	1,868	2,078	1,165	1,404
Percent of labor force	6.0	7.3	5.0	6.5	5.4	5.8	15.3	18.9
Not in labor force	51,921	52,409	12,406	12,913	33,353	33,438	6,162	6,058
Black and other								
Total noninstitutional population	20,727	21,344	8,232	8,503	9,874	10,208	2,622	2,633
Total labor force	12,695	12,934	6,247	6,346	5,451	5,670	996	917
Percent of population	61.2	60.6	75.9	74.6	55.2	55.5	38.0	34.8
Civilian labor force	12,228	12,442	5,889	5,971	5,421	5,633	917	838
Employed	10,725	10,722	5,255	5,243	4,908	4,956	562	522
Agriculture	269	233	229	192	26	23	13	18
Nonagricultural industries	10,456	10,488	5,026	5,051	4,881	4,933	549	504
Unemployed	1,503	1,721	634	728	513	677	355	315
Percent of labor force	12.3	13.8	10.8	12.2	9.5	12.0	38.8	37.6
Not in labor force	8,033	8,411	1,985	2,157	4,423	4,538	1,626	1,716

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

(Numbers in thousands)

Employment status and major activity	February 1981								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	24,894	12,581	12,312	20,952	10,632	10,320	3,941	1,949	1,992
Total labor force	14,764	8,123	6,642	13,046	7,150	5,896	1,718	973	746
Percent of population	59.3	64.6	53.9	62.3	67.2	57.1	43.6	49.9	37.4
Civilian labor force	14,040	7,466	6,574	12,505	6,657	5,848	1,535	809	726
Employed	11,447	5,924	5,523	10,436	5,400	5,036	1,011	524	487
Agriculture	344	273	71	318	253	65	26	19	6
Nonagricultural industries	11,103	5,652	5,452	10,118	5,147	4,971	985	505	480
Unemployed	2,593	1,542	1,051	2,069	1,257	812	524	285	239
Looking for full-time work	1,595	970	626	1,249	785	464	347	184	162
Looking for part-time work	998	572	425	821	472	349	177	100	77
Percent of labor force	18.5	20.7	16.0	16.5	18.9	13.9	34.1	35.2	32.9
Not in labor force	10,129	4,459	5,671	7,907	3,483	4,424	2,223	976	1,247
Major activity: going to school									
Civilian labor force	4,423	2,328	2,095	3,997	2,100	1,896	427	228	199
Employed	3,436	1,740	1,695	3,195	1,623	1,571	241	117	124
Agriculture	97	75	22	93	73	20	4	3	2
Nonagricultural industries	3,338	1,665	1,673	3,101	1,551	1,551	237	114	123
Unemployed	988	588	400	802	477	325	186	111	75
Looking for full-time work	101	60	41	67	40	27	34	20	14
Looking for part-time work	887	528	359	735	437	298	152	91	61
Percent of labor force	22.3	25.2	19.1	20.1	22.7	17.1	43.5	48.7	37.6
Not in labor force	7,897	3,899	3,998	6,209	3,107	3,103	1,687	792	895
Major activity: other									
Civilian labor force	9,617	5,138	4,478	8,508	4,557	3,952	1,108	582	527
Employed	8,011	4,184	3,827	7,241	3,776	3,465	770	408	362
Agriculture	246	197	49	225	180	44	21	17	5
Nonagricultural industries	7,765	3,987	3,778	7,016	3,596	3,420	749	391	358
Unemployed	1,605	954	651	1,267	780	487	338	174	164
Looking for full-time work	1,494	910	585	1,182	745	436	313	165	148
Looking for part-time work	111	44	67	85	35	51	25	9	16
Percent of labor force	16.7	18.6	14.5	14.9	17.1	12.3	30.5	29.9	31.2
Not in labor force	2,233	560	1,673	1,697	376	1,322	535	184	351

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

(Numbers in thousands)

Sex, age, and race	February 1981								
	Full-time labor force					Part-time labor force			
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time ¹	Unemployed (looking for part-time work)	
		Full-time schedules ¹	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
Both sexes, 16 years and over.....	88,614	77,511	4,211	6,892	7.8	16,193	14,661	1,533	9.5
16 to 21 years.....	8,279	5,855	228	1,595	19.3	5,761	4,764	998	17.3
16 to 19 years.....	3,707	2,370	476	861	23.2	4,558	3,699	859	18.8
16 to 17 years.....	561	269	94	198	35.3	2,675	2,123	552	20.6
18 to 19 years.....	3,146	2,101	382	662	21.1	1,883	1,576	307	16.3
20 years and over.....	84,907	75,141	3,734	6,032	7.1	11,635	10,961	674	5.8
20 to 24 years.....	12,843	10,246	836	1,761	13.7	2,356	2,136	220	9.3
25 years and over.....	72,065	64,895	2,898	4,271	5.9	9,279	8,826	454	4.9
25 to 54 years.....	60,144	54,050	2,321	3,772	6.3	6,465	6,134	331	5.1
55 years and over.....	11,921	10,845	577	499	4.2	2,814	2,692	122	4.3
Males, 16 years and over.....	54,368	48,199	1,936	4,233	7.8	5,358	4,629	729	13.6
16 to 21 years.....	4,599	3,234	395	970	21.1	2,867	2,295	572	20.0
16 to 19 years.....	2,075	1,350	218	508	24.5	2,307	1,804	503	21.8
16 to 17 years.....	292	146	54	114	39.1	1,183	913	270	23.0
18 to 19 years.....	2,292	1,604	364	394	17.6	3,051	2,825	226	7.4
20 years and over.....	52,292	46,850	1,718	3,725	7.1	3,051	2,825	226	7.4
20 to 24 years.....	7,142	5,594	425	1,123	15.7	986	890	96	9.8
25 years and over.....	45,151	41,256	1,294	2,602	5.8	2,064	1,935	130	6.3
25 to 54 years.....	37,382	34,091	998	2,292	6.1	876	812	64	7.3
55 years and over.....	7,769	7,165	296	309	4.0	1,189	1,124	66	5.6
Females, 16 years and over.....	34,247	29,312	2,275	2,660	7.8	10,835	10,032	804	7.4
16 to 21 years.....	3,680	2,621	433	626	17.0	2,894	2,469	425	14.7
16 to 19 years.....	1,632	1,021	259	353	21.6	2,251	1,895	356	15.8
16 to 17 years.....	292	146	54	114	39.1	1,183	913	270	23.0
18 to 19 years.....	32,615	28,291	2,016	2,307	7.1	8,584	8,137	448	5.2
20 years and over.....	5,701	4,652	411	638	11.2	1,370	1,246	124	9.0
20 to 24 years.....	26,914	23,640	1,605	1,669	6.2	7,215	6,891	324	4.5
25 years and over.....	22,763	19,960	1,323	1,480	6.5	5,590	5,323	266	4.8
25 to 54 years.....	4,152	3,680	282	190	4.6	1,625	1,568	58	3.6
55 years and over.....									
White									
Males, 16 years and over.....	48,519	43,404	1,668	3,446	7.1	4,780	4,179	601	12.6
16 to 21 years.....	4,052	2,926	341	785	19.4	2,605	2,133	472	18.1
16 to 19 years.....	1,834	1,238	190	407	22.2	2,092	1,674	418	20.0
16 to 17 years.....	46,684	42,167	1,478	3,040	6.5	2,688	2,505	183	6.8
18 to 19 years.....	6,287	5,004	363	920	14.6	881	804	77	8.7
20 years and over.....	40,397	37,162	1,114	2,120	5.2	1,807	1,701	107	5.9
20 to 24 years.....	33,328	30,617	855	1,855	5.6	722	678	45	6.2
25 years and over.....	7,070	6,545	259	265	3.7	1,085	1,024	61	5.6
Females, 16 years and over.....	29,165	25,299	1,881	1,984	6.8	9,902	9,229	673	6.8
16 to 21 years.....	3,222	2,374	384	464	14.4	2,626	2,277	349	13.3
16 to 19 years.....	1,447	933	229	285	19.7	2,054	1,760	294	14.3
16 to 17 years.....	27,718	24,367	1,652	1,699	6.1	7,848	7,469	379	4.8
18 to 19 years.....	4,911	4,110	350	451	9.2	1,229	1,126	102	8.3
20 years and over.....	22,806	20,257	1,302	1,248	5.5	6,619	6,342	277	4.2
20 to 24 years.....	19,131	16,971	1,078	1,081	5.7	5,178	4,949	229	4.4
25 years and over.....	3,676	3,286	224	167	4.5	1,441	1,393	48	3.3
25 to 54 years.....									
55 years and over.....									
Black and other									
Males, 16 years and over.....	5,849	4,795	268	780	13.4	578	450	128	22.2
16 to 21 years.....	547	308	54	184	33.7	262	162	100	38.2
16 to 19 years.....	241	112	28	101	42.0	215	130	85	39.5
16 to 17 years.....	5,608	4,683	240	685	12.2	363	320	43	11.9
18 to 19 years.....	855	590	61	204	23.8	105	86	19	18.3
20 years and over.....	4,753	4,093	179	482	10.1	258	234	24	9.3
20 to 24 years.....	4,053	3,473	143	438	10.8	154	134	20	13.0
25 years and over.....	700	620	36	43	6.1	105	100	5	4.8
Females, 16 years and over.....	5,082	4,013	394	675	13.3	933	802	131	14.0
16 to 21 years.....	458	247	49	162	35.5	268	192	77	28.6
16 to 19 years.....	185	88	30	67	36.4	197	135	62	31.4
16 to 17 years.....	4,897	3,925	364	508	12.4	736	667	69	9.4
18 to 19 years.....	790	542	61	187	23.6	141	119	22	15.5
20 years and over.....	4,107	3,383	303	421	10.3	595	548	47	7.9
20 to 24 years.....	3,632	2,989	245	398	11.0	411	373	37	9.0
25 years and over.....	475	394	58	23	4.8	184	175	9	4.9

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

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

(Numbers in thousands)

Family relationship	February 1981									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over	104,808	63.3	96,383	8,425	8.0	60,819	31,445	9,641	2,634	17,099
Husbands	38,811	80.4	36,911	1,900	4.9	9,478	139	201	966	8,172
With employed wife	21,179	91.5	20,275	904	4.3	1,975	47	126	327	1,476
With unemployed wife	1,285	91.1	1,071	214	16.7	125	10	2	28	85
With wife not in labor force	16,347	68.9	15,565	781	4.8	7,378	82	73	611	6,612
Wives	24,564	50.9	23,154	1,410	5.7	23,725	21,176	345	327	1,877
With employed husband	21,346	57.8	20,275	1,071	5.0	15,565	14,383	291	100	791
With unemployed husband	1,118	58.9	904	214	19.1	781	721	14	6	40
With husband not in labor force	2,100	22.2	1,975	125	6.0	7,378	6,072	39	220	1,047
Relatives in married-couple families	12,475	59.2	10,532	1,944	15.6	8,601	865	6,160	269	1,306
16 to 19 years	5,550	51.3	4,555	996	17.9	5,270	147	4,798	18	306
20 to 24 years	4,696	73.9	4,026	670	14.3	1,662	122	1,269	34	237
25 years and over	2,229	57.2	1,951	278	12.5	1,669	596	93	217	763
Females who maintain families	5,393	59.8	4,847	546	10.1	3,625	2,765	174	132	554
Relatives in families maintained by females	4,359	54.2	3,360	999	22.9	3,683	873	1,706	234	870
16 to 19 years	1,337	45.2	883	454	34.0	1,622	91	1,353	4	173
20 to 24 years	1,357	68.7	1,045	312	23.0	619	143	303	28	146
25 years and over	1,665	53.6	1,432	233	14.0	1,442	639	50	202	551
Males who maintain families	1,798	76.6	1,662	136	7.6	548	23	28	62	435
Relatives in families maintained by males	1,312	58.0	1,087	224	17.1	949	377	274	56	242
16 to 19 years	299	57.4	221	77	25.9	222	24	185	4	9
20 to 24 years	350	75.3	277	73	20.8	115	21	65	1	28
25 years and over	663	52.0	589	74	11.2	612	332	24	51	205
Persons living alone	9,984	53.8	9,362	622	6.2	8,580	4,740	243	486	3,110
Males	5,215	71.6	4,810	406	7.8	2,070	103	151	199	1,617
Females	4,769	42.3	4,553	216	4.5	6,510	4,637	92	288	1,493
All others ¹	6,112	79.0	5,468	644	10.5	1,630	487	510	102	533

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

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

Marital status, race, and age	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
Total, 16 years and over	3,920	4,962	6.6	8.3	3,073	3,463	7.0	7.7
Married, spouse present	1,592	2,003	4.0	5.0	1,373	1,487	5.6	6.0
Widowed, divorced, or separated	407	542	8.5	10.5	584	687	7.0	7.8
Single (never married)	1,922	2,416	13.3	16.3	1,116	1,289	10.1	11.4
White, 16 years and over	3,109	4,047	5.9	7.6	2,381	2,657	6.2	6.8
Married, spouse present	1,375	1,732	3.8	4.8	1,183	1,275	5.3	5.7
Widowed, divorced, or separated	521	428	7.4	10.1	440	485	6.5	6.8
Single (never married)	1,445	1,887	11.5	14.8	758	897	8.2	9.4
Black and other, 16 years and over	812	914	12.8	14.2	691	806	11.8	13.4
Married, spouse present	217	271	6.1	7.8	190	212	7.5	8.4
Widowed, divorced, or separated	118	114	13.6	12.1	144	202	8.8	11.7
Single (never married)	477	529	25.0	26.1	358	392	20.6	22.3
Total, 20 to 64 years of age	3,026	3,883	5.7	7.3	2,333	2,710	6.0	6.8
Married, spouse present	1,512	1,932	4.0	5.1	1,268	1,391	5.3	5.7
Widowed, divorced, or separated	393	528	8.7	10.7	542	642	7.1	7.9
Single (never married)	1,119	1,422	11.1	13.5	522	677	7.2	8.8
White, 20 to 64 years of age	2,414	3,168	5.1	6.6	1,821	2,039	5.4	5.9
Married, spouse present	1,314	1,673	3.8	4.8	1,092	1,193	5.1	5.5
Widowed, divorced, or separated	279	416	7.6	10.3	403	447	6.6	6.9
Single (never married)	819	1,078	9.5	12.0	328	398	5.5	6.4
Black and other, 20 to 64 years of age	612	715	10.7	12.4	510	671	9.6	12.2
Married, spouse present	198	259	5.8	7.8	176	198	7.2	8.1
Widowed, divorced, or separated	114	111	13.7	12.6	139	196	9.0	11.9
Single (never married)	301	344	20.5	21.9	194	277	14.9	19.8

A-11. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
Total, 16 years and over	6,993	8,425	6.8	8.0	6.6	8.3	7.0	7.7
White-collar workers	1,837	2,031	3.5	3.8	2.3	2.7	4.6	4.6
Professional and technical	334	382	2.1	2.3	1.8	2.1	2.4	2.6
Managers and administrators, except farm	265	301	2.4	2.6	1.8	2.1	3.9	3.9
Sales workers	335	313	5.2	4.8	3.8	3.8	7.0	6.1
Clerical workers	902	1,036	4.8	5.4	2.9	4.9	5.3	5.5
Blue-collar workers	3,286	4,138	9.7	12.3	9.3	11.9	11.3	14.1
Craft and kindred workers	900	1,267	6.8	9.5	6.9	9.7	5.1	7.7
Carpenters and other construction craft workers	505	654	12.5	16.2	12.4	16.0	(1)	(1)
All other	395	613	4.3	6.6	4.3	6.7	4.3	6.0
Operatives, except transport	1,250	1,598	10.7	13.6	9.3	12.4	12.8	15.3
Transport equipment operatives	329	382	8.6	10.3	8.9	10.8	4.9	5.8
Nonfarm laborers	807	891	16.0	18.7	16.5	18.9	11.6	17.6
Construction laborers	287	294	27.6	29.9	27.1	29.7	(1)	(1)
All other	520	597	13.0	15.8	13.4	15.7	10.0	16.8
Service workers	1,001	1,255	7.2	8.8	7.7	9.3	6.9	8.6
Private household	46	48	4.1	4.3	(1)	(1)	4.2	4.3
All other	954	1,208	7.5	9.2	7.8	9.3	7.3	9.2
Farm workers	137	163	5.5	6.7	4.3	5.7	12.4	11.7
No previous work experience	732	837	--	--	--	--	--	--
16 to 19 years	538	623	--	--	--	--	--	--
20 to 24 years	128	152	--	--	--	--	--	--
25 years and over	66	62	--	--	--	--	--	--

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

A-12. Unemployed persons by industry and sex

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
Total, 16 years and over	100.0	100.0	6.8	8.0	6.6	8.3	7.0	7.7
Nonagricultural private wage and salary workers	77.0	78.3	7.1	8.5	7.1	9.0	7.0	8.0
Mining	.8	.9	6.3	7.3	7.0	8.1	1.3	2.9
Construction	12.1	11.8	17.1	20.3	17.9	21.0	6.5	10.8
Manufacturing	24.5	25.1	7.4	9.2	6.3	8.2	9.8	11.4
Durable goods	14.5	15.1	7.2	9.3	6.6	8.7	9.0	11.1
Lumber and wood products	1.1	1.1	12.2	14.0	13.1	14.9	6.1	8.8
Furniture and fixtures	.5	.7	6.7	11.5	5.8	9.2	8.6	16.9
Stone, clay, and glass products	1.0	1.1	9.4	14.0	8.4	13.8	13.5	15.0
Primary metal industries	1.6	1.0	8.4	7.0	7.8	7.0	12.4	7.5
Fabricated metal products	2.0	2.0	8.3	10.9	6.7	10.7	14.2	11.4
Machinery, except electrical equipment	1.5	2.1	3.6	6.3	3.7	5.4	3.2	9.2
Electrical equipment	1.5	1.9	4.4	6.2	2.7	3.4	6.4	9.5
Transportation equipment	3.9	3.8	11.8	14.2	10.8	14.4	16.3	13.3
Automobiles	3.1	2.9	17.2	20.1	15.7	19.5	24.2	23.2
Other transportation equipment	.8	.9	5.1	7.3	4.8	8.0	6.5	4.7
Instruments and related products	.4	.5	4.3	6.4	2.1	3.2	7.1	10.7
Other durable goods industries	.9	.9	8.5	10.1	4.8	6.8	13.6	15.3
Nondurable goods	10.0	10.0	7.7	9.2	5.7	7.4	10.5	11.6
Food and kindred products	2.6	2.8	10.0	12.0	7.0	9.2	16.2	18.2
Textile mill products	.9	1.2	7.4	11.8	4.5	11.3	10.5	12.3
Apparel and other textile products	2.0	1.7	10.3	10.6	10.3	5.6	10.3	12.0
Paper and allied products	.7	.6	6.6	6.5	6.2	4.4	7.6	12.1
Printing and publishing	1.5	.9	6.6	5.0	5.6	5.0	8.2	5.1
Chemicals and allied products	1.0	1.0	5.0	5.9	4.1	5.2	7.0	7.6
Rubber and plastics products	.7	1.1	6.7	12.9	4.7	12.9	9.9	12.9
Other nondurable goods industries	.6	.8	7.5	10.1	4.2	7.1	11.8	13.0
Transportation and public utilities	4.0	4.1	5.1	6.2	5.4	7.2	4.1	3.2
Railroads and railway express	.4	.7	4.4	10.5	4.5	10.8	(1)	(1)
Other transportation	2.7	2.8	7.3	9.1	7.7	9.9	5.5	5.8
Communication and other public utilities	.9	.6	2.8	2.0	2.5	2.4	3.4	1.5
Wholesale and retail trade	20.0	19.3	7.5	8.7	6.2	7.9	8.9	9.5
Finance, insurance, and real estate	2.8	2.4	3.6	3.6	3.0	2.6	4.0	4.2
Service industries	12.7	14.5	5.2	6.7	5.4	7.4	5.0	6.3
Professional services	5.0	5.2	3.4	4.1	2.6	3.3	3.7	4.5
All other service industries	7.7	9.3	7.9	10.5	8.1	11.2	7.6	9.8
Agricultural wage and salary workers	2.5	2.6	13.3	16.7	11.3	16.1	21.8	19.2
All other classes of workers	10.0	9.2	2.8	3.0	2.6	2.9	3.0	3.1
No previous work experience	10.5	9.9	--	--	--	--	--	--

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

HOUSEHOLD DATA

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	
	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
NUMBER OF UNEMPLOYED												
Total unemployed, in thousands.....	6,993	8,425	3,091	3,951	2,382	2,755	1,520	1,719	5,490	6,704	1,503	1,721
Job losers.....	3,643	4,749	2,226	2,943	1,007	1,380	410	426	2,914	3,839	729	910
On layoff.....	1,530	1,767	1,025	1,197	407	471	99	98	1,306	1,537	224	230
Other job losers.....	2,113	2,982	1,201	1,746	600	909	311	328	1,608	2,302	505	680
Job leavers.....	805	854	324	348	333	341	148	165	663	724	142	130
Reentrants.....	1,814	1,986	480	577	909	902	425	506	1,416	1,530	399	455
New entrants.....	730	836	61	82	133	131	537	622	497	611	233	225
PERCENT DISTRIBUTION												
Total unemployed.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers.....	52.1	56.4	72.1	74.5	42.3	50.1	27.0	24.8	53.1	57.2	48.5	52.9
On layoff.....	21.9	21.0	33.2	30.3	17.1	17.1	6.5	5.7	23.8	22.9	14.9	13.4
Other job losers.....	30.2	35.4	38.9	44.2	25.2	33.0	20.5	19.1	29.3	34.3	33.6	39.5
Job leavers.....	11.5	10.1	10.5	8.8	14.0	12.4	9.7	9.6	12.1	10.8	9.4	7.5
Reentrants.....	25.9	23.6	15.5	14.6	38.2	32.8	28.0	29.5	25.8	22.8	26.5	26.5
New entrants.....	10.4	9.9	2.0	2.1	5.6	4.8	35.3	36.2	9.1	9.1	15.5	13.1
UNEMPLOYMENT RATE												
Total unemployment rate.....	6.8	8.0	5.6	7.1	6.0	6.7	17.9	20.8	6.0	7.3	12.3	13.8
Job loser rate ¹	3.5	4.5	4.1	5.4	2.5	3.3	4.9	5.2	3.2	4.2	5.9	7.3
Job leaver rate ¹.....	.8	.8	.6	.6	.8	.8	1.7	2.0	.7	.8	1.2	1.0
Reentrant rate ¹	1.8	1.9	.9	1.0	2.3	2.2	5.0	6.1	1.6	1.7	3.3	3.7
New entrant rate ¹.....	.7	.8	.1	.1	.3	.3	6.3	7.5	.5	.7	1.9	1.8

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

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

[Percent distribution]

Reason, sex, and age	February 1981						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over	8,425	100.0	35.8	34.2	30.0	14.8	15.3
Job losers.....	4,749	100.0	28.7	36.0	35.3	16.4	18.9
On layoff.....	1,767	100.0	35.6	36.9	27.5	13.6	13.9
Other job losers.....	2,982	100.0	24.6	35.4	40.0	18.0	21.9
Job leavers.....	854	100.0	44.3	32.0	23.7	12.8	10.9
Reentrants.....	1,986	100.0	44.1	32.8	23.0	13.2	9.8
New entrants.....	836	100.0	47.3	29.5	23.2	11.6	11.6
Males, 20 years and over	3,951	100.0	29.2	35.7	35.1	15.7	19.4
Job losers.....	2,943	100.0	26.3	37.1	36.6	15.8	20.8
On layoff.....	1,197	100.0	31.5	40.0	28.5	13.9	14.6
Other job losers.....	1,746	100.0	22.8	35.0	42.2	17.1	25.1
Job leavers.....	348	100.0	36.3	31.9	31.8	14.7	17.1
Reentrants.....	577	100.0	37.1	33.5	29.5	15.6	13.8
New entrants.....	82	100.0	46.4	18.7	34.9	17.3	17.6
Females, 20 years and over	2,755	100.0	37.8	33.5	28.7	14.7	14.0
Job losers.....	1,380	100.0	29.0	34.1	36.9	18.2	18.7
On layoff.....	471	100.0	40.1	32.6	27.3	13.4	13.9
Other job losers.....	909	100.0	23.2	34.9	41.8	20.7	21.2
Job leavers.....	341	100.0	43.7	35.3	21.0	12.1	8.9
Reentrants.....	902	100.0	47.7	32.3	20.0	11.2	8.8
New entrants.....	131	100.0	46.9	29.8	23.3	8.9	14.4
Both sexes, 16 to 19 years	1,719	100.0	47.7	31.9	20.5	12.9	7.6
Job losers.....	426	100.0	44.2	34.4	21.3	14.7	6.6
On layoff.....	98	100.0	63.3	21.0	15.8	10.3	5.4
Other job losers.....	328	100.0	38.6	38.4	23.0	16.0	7.0
Job leavers.....	165	100.0	62.6	25.3	12.0	10.1	2.0
Reentrants.....	506	100.0	45.9	33.1	21.0	13.9	7.1
New entrants.....	622	100.0	47.5	30.8	21.6	11.4	10.2

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

Sex, age, and race	February 1981								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	8,425	6,557	28.1	6.6	72.0	33.0	15.4	6.0	1.61
16 to 19 years	1,719	1,610	18.5	3.4	78.1	27.6	13.6	4.7	1.46
20 to 24 years	1,981	1,554	32.4	8.4	71.8	35.6	17.4	4.2	1.70
25 to 34 years	2,227	1,634	31.4	6.6	68.6	36.8	13.6	6.9	1.64
35 to 44 years	1,091	763	31.7	9.8	73.4	32.1	14.0	7.9	1.69
45 to 54 years	785	561	32.1	5.7	67.9	34.0	16.6	7.0	1.63
55 to 64 years	508	346	27.7	7.8	66.2	31.5	22.8	9.8	1.66
65 years and over	113	88	10.2	8.0	63.6	22.7	19.3	8.0	1.32
Males, 16 years and over	4,962	3,646	29.8	6.7	74.1	30.4	17.5	7.0	1.65
16 to 19 years	1,011	950	18.1	3.8	81.3	24.3	16.1	3.2	1.47
20 to 24 years	1,220	887	33.0	7.4	74.2	35.3	20.3	5.3	1.76
25 to 34 years	1,306	890	37.2	7.4	69.4	36.1	16.0	8.5	1.75
35 to 44 years	618	393	34.4	8.4	75.6	26.5	15.3	9.7	1.70
45 to 54 years	433	278	32.7	7.2	70.5	28.4	18.0	10.8	1.68
55 to 64 years	306	206	30.1	9.7	65.5	27.2	22.3	14.1	1.69
65 years and over	68	52	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	3,463	2,911	25.9	6.5	69.4	36.3	12.7	4.7	1.55
16 to 19 years	709	660	18.9	2.7	73.6	32.4	10.0	7.0	1.45
20 to 24 years	762	667	31.5	9.6	68.7	36.1	13.5	2.7	1.62
25 to 34 years	921	754	24.8	5.7	67.8	37.7	10.9	4.9	1.52
35 to 44 years	473	370	28.6	11.1	71.1	38.1	12.7	5.7	1.67
45 to 54 years	352	284	31.3	4.2	65.5	39.4	15.1	3.2	1.59
55 to 64 years	202	140	24.3	5.0	67.1	37.9	22.9	4.3	1.61
65 years and over	45	36	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over	6,704	5,074	25.8	6.4	73.7	35.2	14.8	5.8	1.62
Males	4,047	2,893	27.8	6.5	75.3	32.3	16.5	7.2	1.66
Females	2,657	2,181	23.1	6.3	71.6	39.1	12.5	4.0	1.57
Black and other, 16 years and over	1,721	1,483	35.8	7.1	66.4	25.4	17.3	6.6	1.59
Males	914	754	37.4	7.4	69.6	22.8	21.2	6.1	1.65
Females	806	729	34.2	6.9	63.0	28.0	13.2	7.0	1.52

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

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

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

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

Sex and reason	February 1981								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	8,425	6,557	28.1	6.6	72.0	33.0	15.4	6.0	1.61
Job losers	4,749	2,980	34.7	7.4	71.3	33.4	17.7	6.8	1.71
Job leavers	854	875	26.4	7.8	72.5	41.1	14.6	3.2	1.66
Reentrants	1,986	1,873	22.7	5.8	71.0	31.5	13.6	6.5	1.51
New entrants	836	830	17.8	4.2	76.5	26.5	11.9	4.9	1.42
Males, 16 years and over	4,962	3,646	29.8	6.7	74.1	30.4	17.5	7.0	1.65
Job losers	3,233	1,974	34.7	7.7	72.7	31.4	18.1	8.4	1.73
Job leavers	446	452	25.2	6.0	74.1	36.7	18.6	4.0	1.65
Reentrants	860	800	26.9	5.7	74.5	27.5	17.0	8.0	1.60
New entrants	423	420	17.6	4.5	80.0	24.0	14.3	1.9	1.42
Females, 16 years and over	3,463	2,911	25.9	6.5	69.4	36.3	12.7	4.7	1.55
Job losers	1,516	1,006	34.9	6.8	68.5	37.3	16.7	3.7	1.68
Job leavers	408	423	27.7	9.7	70.9	45.9	10.2	2.4	1.67
Reentrants	1,126	1,071	19.7	5.9	68.4	34.5	11.1	5.5	1.45
New entrants	413	410	18.0	3.9	72.9	29.0	9.5	8.0	1.41

NOTE: See note, table A-15.

HOUSEHOLD DATA

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	
	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
Total, 16 years and over	6,993	8,425	100.0	100.0	5,493	6,892	100.0	100.0
Less than 5 weeks	2,878	3,014	41.2	35.8	2,030	2,167	37.0	31.4
5 to 14 weeks	2,653	2,880	37.9	34.2	2,192	2,446	39.9	35.5
5 to 10 weeks	1,967	2,095	28.1	24.9	1,597	1,754	29.1	25.4
11 to 14 weeks	685	785	9.8	9.3	594	691	10.8	10.0
15 weeks and over	1,462	2,531	20.9	30.0	1,270	2,280	23.1	33.1
15 to 26 weeks	946	1,246	13.5	14.8	811	1,075	14.8	15.6
27 weeks and over	516	1,285	7.4	15.3	459	1,204	8.4	17.5
27 to 51 weeks	291	738	4.2	8.8	264	695	4.8	10.1
52 weeks and over	225	547	3.2	6.5	195	510	3.5	7.4
Average (mean) duration, in weeks	10.7	14.4	--	--	11.5	15.6	--	--
Median duration, in weeks	6.7	8.2	--	--	7.6	9.3	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
	February 1981								Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
Total, 16 years and over	8,425	3,014	2,880	1,246	1,285	14.4	8.2	41.2	35.8	20.9	30.0
16 to 21 years	2,593	1,115	876	347	255	11.5	6.5	46.6	43.0	15.6	23.2
16 to 19 years	1,719	820	548	221	131	9.9	5.5	49.3	47.7	15.0	20.5
20 to 24 years	1,981	700	702	300	280	14.1	8.0	39.6	35.3	19.2	29.2
25 to 34 years	2,227	698	833	323	373	15.3	9.2	40.2	31.3	21.7	31.3
35 to 44 years	1,091	333	367	166	225	16.9	9.7	40.0	30.5	24.2	35.8
45 to 54 years	785	270	239	125	151	16.2	9.0	37.0	34.4	23.6	35.1
55 to 64 years	508	150	152	93	113	18.7	10.8	27.8	29.6	34.9	40.5
65 years and over	113	43	39	18	13	13.0	7.4	49.0	37.9	23.6	27.2
Males, 16 years and over	4,962	1,609	1,735	764	853	15.6	9.2	36.5	32.4	22.5	32.6
16 to 21 years	1,542	612	531	233	165	12.3	7.2	44.6	39.7	16.4	25.8
16 to 19 years	1,011	456	325	143	86	10.7	6.1	47.9	45.1	15.9	22.7
20 to 24 years	1,220	379	444	199	198	15.3	9.0	35.7	31.0	20.0	32.6
25 to 34 years	1,306	364	504	189	250	16.5	10.1	33.5	27.9	23.9	33.6
35 to 44 years	618	178	209	96	135	18.2	10.3	32.7	28.8	26.6	37.4
45 to 54 years	433	118	137	78	100	19.1	11.6	32.7	27.2	24.7	41.1
55 to 64 years	306	88	97	47	74	19.3	10.8	23.6	28.9	37.8	39.5
65 years and over	68	27	20	11	11	14.5	7.7	(1)	(1)	(1)	(1)
Females, 16 years and over	3,463	1,405	1,145	482	432	12.6	6.8	47.0	40.6	18.9	26.4
16 to 21 years	1,051	503	344	113	90	10.4	5.5	49.3	47.9	14.6	19.4
16 to 19 years	709	364	222	77	45	8.9	4.9	50.9	51.3	13.9	17.3
20 to 24 years	762	321	259	100	82	12.1	6.4	45.6	42.2	18.0	23.9
25 to 34 years	921	333	330	134	123	13.6	7.9	48.0	36.2	19.1	28.0
35 to 44 years	473	155	158	71	89	15.3	8.6	48.2	32.8	21.7	33.8
45 to 54 years	352	153	101	47	51	12.7	6.2	41.8	43.4	22.5	27.8
55 to 64 years	202	62	55	46	39	17.6	10.9	35.2	30.6	29.7	42.1
65 years and over	45	16	19	7	3	10.7	7.2	(1)	(1)	(1)	(1)
White, 16 years and over	6,704	2,438	2,352	992	922	13.6	8.0	41.2	36.4	20.1	28.6
Males	4,047	1,333	1,451	632	632	14.7	9.0	36.0	32.9	21.4	31.2
Females	2,657	1,105	902	361	290	11.9	6.6	47.9	41.6	18.3	24.5
Black and other, 16 years and over	1,721	576	528	254	363	17.4	9.2	41.1	33.5	24.1	35.9
Males	914	277	285	132	221	19.3	10.2	38.6	30.2	26.9	38.6
Females	806	299	243	122	142	15.2	7.9	44.1	37.1	20.7	32.7
Males, 16 years and over:											
Married, spouse present	2,003	623	706	301	372	16.1	9.4	33.1	31.1	24.2	33.6
Widowed, divorced, or separated	542	118	204	88	133	19.7	11.9	31.2	21.7	27.0	40.8
Single (never married)	2,416	868	826	374	349	14.3	8.4	40.5	35.9	20.1	29.9
Females, 16 years and over:											
Married, spouse present	1,487	587	512	205	183	12.4	6.8	49.3	39.5	18.4	26.1
Widowed, divorced, or separated	687	244	227	102	116	14.9	8.5	41.4	35.4	24.4	31.6
Single (never married)	1,289	574	406	176	133	11.7	6.2	47.2	44.5	16.6	24.0

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

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
	February 1981								Feb. 1980	Feb. 1981	
OCCUPATION											
White-collar workers	2,031	769	650	323	289	13.6	7.5	43.0	37.9	20.8	30.1
Professional and managerial	683	237	226	118	101	13.7	8.0	36.7	34.7	29.2	32.2
Sales workers	313	126	103	43	41	13.4	7.2	47.2	40.1	18.1	26.9
Clerical workers	1,036	407	321	161	147	13.7	7.1	45.7	39.3	16.3	29.7
Blue-collar workers	4,138	1,274	1,486	629	749	16.0	9.5	35.8	30.8	21.1	33.3
Craft and kindred workers	1,267	388	507	189	183	14.5	9.1	34.9	30.6	19.5	29.4
Operatives, except transport	1,598	476	529	227	367	17.8	10.0	40.1	29.8	20.2	37.1
Transport equipment operatives	382	116	150	49	68	16.2	9.1	28.8	30.3	23.8	30.5
Nonfarm laborers	891	295	299	164	132	14.9	9.4	33.1	33.2	23.2	33.2
Service workers	1,255	519	433	163	141	11.9	6.7	46.9	41.3	20.5	24.2
INDUSTRY¹											
Agriculture	221	71	98	37	14	11.1	8.7	36.6	32.2	24.6	23.4
Construction	1,030	304	471	143	112	12.9	9.2	31.0	29.5	16.0	24.7
Manufacturing	2,125	651	631	361	482	18.0	10.4	38.0	30.6	23.6	39.7
Durable goods	1,278	381	360	203	335	19.5	11.3	37.7	29.8	24.0	42.1
Non-durable goods	847	270	271	158	147	15.8	9.6	38.5	31.9	23.1	36.1
Transportation and public utilities	399	135	122	57	85	17.6	8.6	35.5	33.7	27.9	35.6
Wholesale and retail trade	1,632	666	549	220	197	12.3	6.9	45.8	40.8	18.4	25.5
Finance and service industries	1,747	641	619	258	230	13.0	7.5	42.5	36.7	20.8	27.9
Public administration	214	74	66	37	38	16.7	9.4	40.3	34.3	28.1	34.9
No previous work experience	837	395	248	97	97	12.6	5.9	52.3	47.2	19.9	23.2

¹ Includes wage and salary workers only.

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

(In thousands)

Industry and age	Total		Males		Females	
	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
	All industries	96,264	96,383	55,319	54,764	40,945	41,619
16 to 19 years	6,997	6,546	3,660	3,372	3,337	3,174
16 to 17 years	2,684	2,486	1,424	1,289	1,260	1,197
18 to 19 years	4,313	4,060	2,237	2,082	2,076	1,978
20 to 24 years	13,341	13,217	7,109	6,908	6,231	6,309
25 to 54 years	61,562	62,507	35,787	35,900	25,774	26,607
25 to 34 years	26,114	26,631	15,148	15,281	10,966	11,350
35 to 44 years	19,119	19,580	11,015	11,156	8,104	8,424
45 to 54 years	16,329	16,295	9,624	9,463	6,705	6,832
55 to 64 years	11,415	11,265	6,913	6,831	4,502	4,435
55 to 59 years	7,134	6,980	4,304	4,208	2,831	2,772
60 to 64 years	4,281	4,285	2,609	2,622	1,672	1,663
65 years and over	2,950	2,848	1,849	1,754	1,101	1,094
Nonagricultural industries	93,428	93,609	52,936	52,490	40,493	41,120
16 to 19 years	6,798	6,331	3,491	3,194	3,308	3,137
16 to 17 years	2,588	2,382	1,334	1,200	1,255	1,182
18 to 19 years	4,210	3,949	2,157	1,994	2,053	1,955
20 to 24 years	13,036	12,903	6,854	6,662	6,182	6,241
25 to 54 years	60,005	61,011	34,518	34,705	25,485	26,306
25 to 34 years	25,533	26,117	14,654	14,854	10,879	11,262
35 to 44 years	18,638	19,080	10,630	10,770	8,009	8,310
45 to 54 years	15,833	15,814	9,235	9,081	6,598	6,733
55 to 64 years	10,922	10,787	6,481	6,420	4,440	4,367
55 to 59 years	6,880	6,731	4,084	4,002	2,797	2,729
60 to 64 years	4,042	4,055	2,398	2,418	1,644	1,638
65 years and over	2,667	2,578	1,591	1,508	1,077	1,069
Agriculture	2,836	2,773	2,383	2,274	453	499
16 to 19 years	198	215	170	178	29	37
16 to 17 years	95	105	90	89	5	15
18 to 19 years	103	111	80	88	23	22
20 to 24 years	305	314	255	246	49	68
25 to 54 years	1,557	1,495	1,268	1,195	289	301
25 to 34 years	580	514	493	427	87	88
35 to 44 years	480	500	386	386	95	115
45 to 54 years	496	481	389	382	107	99
55 to 64 years	493	478	431	411	62	67
55 to 59 years	254	249	220	206	34	43
60 to 64 years	239	230	211	205	28	25
65 years and over	283	270	259	245	24	25

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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	
	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
TOTAL	96,264	96,383	51,658	51,392	37,609	38,444	3,660	3,372	3,337	3,174
White-collar workers	50,525	51,781	22,929	23,321	25,116	26,058	696	679	1,785	1,723
Professional and technical.....	15,753	16,161	8,600	8,716	6,980	7,262	88	90	84	92
Health workers.....	2,914	3,033	926	960	1,973	2,053	4	4	12	15
Teachers, except college.....	3,329	3,304	943	964	2,357	2,325	3	5	26	11
Other professional and technical.....	9,510	9,824	6,731	6,792	2,650	2,884	81	81	46	66
Managers and administrators, except farm.....	10,850	11,385	7,943	8,203	2,785	3,079	71	61	51	42
Salaried workers.....	8,988	9,524	6,528	6,864	2,342	2,566	70	57	49	38
Self-employed workers in retail trade.....	879	889	576	525	302	358	--	3	1	3
Self-employed workers, except retail trade.....	983	972	840	814	141	156	1	1	2	1
Sales workers.....	6,055	6,146	3,136	3,199	2,297	2,345	236	204	387	399
Retail trade.....	3,057	3,099	978	990	1,560	1,588	160	155	360	365
Other industries.....	2,998	3,047	2,158	2,208	737	756	76	49	27	33
Clerical workers.....	17,866	18,089	3,249	3,203	13,054	13,372	301	324	1,263	1,190
Stenographers, typists, and secretaries.....	4,973	4,935	66	56	4,586	4,599	6	8	315	273
Other clerical workers.....	12,893	13,154	3,183	3,147	8,468	8,773	295	316	948	917
Blue-collar workers	30,527	29,377	22,835	22,250	5,404	5,228	1,932	1,632	356	266
Craft and kindred workers.....	12,346	12,027	11,168	10,925	701	731	437	332	41	39
Carpenters.....	1,090	1,041	1,036	988	15	19	38	34	1	--
Construction craft workers, except carpenters.....	2,447	2,334	2,324	2,245	38	28	84	61	--	--
Mechanics and repairers.....	3,301	3,396	3,069	3,194	59	59	168	141	3	2
Metal craft workers.....	1,337	1,256	1,244	1,164	46	55	44	37	5	1
Blue-collar worker supervisors, not elsewhere classified.....	1,684	1,728	1,475	1,505	184	214	17	5	8	4
All other.....	2,488	2,271	2,021	1,829	359	357	86	53	22	32
Operatives, except transport.....	10,426	10,172	5,656	5,687	3,950	3,820	587	509	232	157
Durable goods manufacturing.....	4,769	4,488	2,897	2,802	1,595	1,486	187	151	89	49
Nondurable goods manufacturing.....	3,315	3,273	1,288	1,311	1,817	1,786	109	104	101	72
Other industries.....	2,341	2,411	1,471	1,575	538	547	291	254	42	36
Transport equipment operatives.....	3,507	3,314	3,035	2,897	305	282	160	123	7	11
Drivers, motor vehicles.....	2,998	2,883	2,576	2,494	284	267	133	112	6	10
All other.....	509	431	460	403	21	15	28	12	1	1
Nonfarm laborers.....	4,248	3,865	2,976	2,743	448	395	748	668	76	59
Construction.....	752	689	666	607	8	13	137	70	1	--
Manufacturing.....	980	896	743	672	158	149	70	69	9	6
Other industries.....	2,516	2,279	1,627	1,464	282	233	541	525	65	53
Service workers	12,866	12,943	4,023	4,031	6,776	6,844	888	903	1,178	1,166
Private household workers.....	1,065	1,071	17	26	848	845	8	11	192	188
Service workers, except private household.....	11,801	11,872	4,006	4,004	5,928	5,999	880	891	986	978
Food service workers.....	4,296	4,344	848	893	2,220	2,215	537	579	690	657
Protective service workers.....	1,438	1,445	1,275	1,270	133	141	22	22	8	12
All other.....	6,067	6,083	1,883	1,841	3,575	3,643	321	290	288	309
Farm workers	2,347	2,282	1,872	1,790	313	314	144	158	18	20
Farmers and farm managers.....	1,397	1,378	1,247	1,236	132	127	18	16	2	--
Farm laborers and supervisors.....	949	903	626	555	181	187	126	142	16	20
Paid workers.....	776	721	600	523	80	81	83	104	13	13
Unpaid family workers.....	174	182	26	32	101	106	43	37	3	7

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
TOTAL						
Total, 16 years and over (thousands)	96,264	96,383	55,319	54,764	40,945	41,619
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	52.5	53.7	42.7	43.8	65.7	66.7
Professional and technical	16.4	16.8	15.7	16.1	17.3	17.7
Managers and administrators, except farm	11.3	11.8	14.5	15.1	6.9	7.5
Sales workers	6.3	6.4	6.1	6.2	6.6	6.6
Clerical workers	18.6	18.8	6.4	6.4	35.0	35.0
Blue-collar workers	31.7	30.5	44.8	43.6	14.1	13.2
Craft and kindred workers	12.8	12.5	21.0	20.6	1.6	1.9
Operatives, except transport	10.8	10.6	11.3	11.3	10.2	9.6
Transport equipment operatives	3.6	3.4	5.8	5.5	.8	.7
Nonfarm laborers	4.4	4.0	6.7	6.2	1.3	1.1
Service workers	13.4	13.4	8.9	9.0	19.4	19.2
Private household workers	1.1	1.1	(1)	.1	2.5	2.5
Other service workers	12.3	12.3	8.8	8.9	16.9	16.8
Farm workers	2.4	2.4	3.6	3.6	.8	.8
Farmers and farm managers	1.5	1.4	2.3	2.3	.3	.3
Farm laborers and supervisors	1.0	.9	1.4	1.3	.5	.5
White						
Total, 16 years and over (thousands)	85,540	85,661	49,786	49,251	35,754	36,410
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	54.2	55.3	44.3	45.5	67.9	68.6
Professional and technical	16.8	17.2	16.3	16.7	17.6	18.0
Managers and administrators, except farm	12.0	12.5	15.3	15.9	7.4	7.9
Sales workers	6.7	6.8	6.5	6.7	7.1	7.1
Clerical workers	18.6	18.7	6.3	6.3	35.8	35.6
Blue-collar workers	31.1	30.0	43.8	42.7	13.5	12.8
Craft and kindred workers	13.3	12.9	21.4	21.0	1.9	1.9
Operatives, except transport	10.3	10.1	10.8	10.9	9.6	9.1
Transport equipment operatives	3.5	3.3	5.4	5.2	.8	.7
Nonfarm laborers	4.1	3.7	6.2	5.7	1.2	1.1
Service workers	12.2	12.2	8.2	8.2	17.7	17.7
Private household workers . . . . .	.8	.9	(1)	(1)	1.9	2.0
Other service workers	11.3	11.4	8.1	8.1	15.8	15.7
Farm workers	2.5	2.5	3.7	3.6	.9	.9
Farmers and farm managers	1.6	1.6	2.5	2.5	.4	.3
Farm laborers and supervisors . . . . .	.9	.9	1.2	1.1	.5	.5
Black and other						
Total, 16 years and over (thousands)	10,725	10,722	5,533	5,513	5,191	5,209
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	38.9	40.9	27.9	28.9	50.5	53.7
Professional and technical	12.6	13.1	10.8	10.9	14.6	15.5
Managers and administrators, except farm	5.3	6.1	6.7	7.6	3.8	4.5
Sales workers	2.8	2.7	2.5	2.3	3.0	3.1
Clerical workers	18.2	19.0	7.9	8.0	29.2	30.6
Blue-collar workers	36.3	34.3	53.6	51.6	17.8	16.0
Craft and kindred workers	9.3	9.3	17.2	16.8	1.0	1.4
Operatives, except transport	15.2	13.8	15.8	14.8	14.4	12.8
Transport equipment operatives	4.9	4.8	8.9	8.8	.7	.6
Nonfarm laborers	6.9	6.3	11.7	11.2	1.7	1.1
Service workers	22.9	23.1	15.1	16.5	31.2	30.0
Private household workers	3.4	3.1	.1	.3	6.8	6.1
Other service workers	19.6	20.0	15.0	16.2	24.4	24.0
Farm workers	1.9	1.7	3.4	3.0	.4	.3
Farmers and farm managers4	.3	.7	.6	.1	(1)
Farm laborers and supervisors	1.6	1.4	2.7	2.4	.4	.3

¹ Less than 0.05 percent.

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

[In thousands]

Age and sex	February 1981								
	Nongrigricultural 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	86,384	1,117	15,823	69,444	6,888	338	1,098	1,475	200
16 to 19 years	6,224	226	480	5,518	85	22	152	19	45
18 to 17 years	2,338	158	161	2,018	34	10	68	9	28
18 to 19 years	3,886	68	319	3,507	51	12	84	10	17
20 to 24 years	12,535	93	1,406	11,037	350	18	208	79	27
25 to 34 years	24,437	131	4,606	19,701	1,626	53	268	224	22
35 to 44 years	17,282	134	3,733	13,415	1,701	97	166	290	44
45 to 54 years	14,247	193	3,230	10,824	1,474	93	145	302	34
55 to 64 years	9,642	198	2,050	7,393	1,101	45	113	350	16
55 to 59 years	6,040	115	1,291	4,633	663	28	64	172	12
60 to 64 years	3,601	83	759	2,760	438	16	48	177	4
65 years and over	2,017	143	318	1,557	551	9	47	211	12
Males, 16 years and over	47,803	111	7,645	40,047	4,646	41	879	1,324	71
16 to 19 years	3,128	37	201	2,890	51	16	122	19	38
18 to 17 years	1,174	24	72	1,079	18	8	55	9	26
18 to 19 years	1,953	13	129	1,811	33	8	66	10	12
20 to 24 years	6,431	6	606	5,819	224	7	155	72	18
25 to 34 years	13,774	10	2,163	11,601	1,079	2	216	204	7
35 to 44 years	9,639	9	1,737	7,893	1,128	4	135	250	1
45 to 54 years	8,061	16	1,712	6,332	1,016	4	113	266	3
55 to 64 years	5,647	14	1,040	4,594	767	5	94	316	--
55 to 59 years	3,545	9	652	2,885	455	1	55	151	--
60 to 64 years	2,102	5	388	1,709	311	4	39	165	--
65 years and over	1,122	19	185	918	383	3	44	197	4
Females, 16 years and over	38,582	1,006	8,178	29,398	2,241	297	219	151	129
16 to 19 years	3,096	189	279	2,628	34	7	30	--	7
18 to 17 years	1,163	134	89	940	16	2	13	--	3
18 to 19 years	1,933	55	189	1,689	18	5	17	--	5
20 to 24 years	6,104	86	800	5,217	126	11	53	7	8
25 to 34 years	10,664	121	2,443	8,100	547	51	52	20	15
35 to 44 years	7,643	125	1,995	5,523	574	93	31	40	43
45 to 54 years	6,186	177	1,518	4,491	458	90	32	36	31
55 to 64 years	3,994	184	1,011	2,799	334	39	18	33	16
55 to 59 years	2,495	107	640	1,749	208	27	9	21	12
60 to 64 years	1,499	78	371	1,051	126	12	9	12	3
65 years and over	895	123	133	639	168	6	3	15	8

A-24. Employed persons by industry and occupation

[In thousands]

Industry	February 1981											
	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	2,773	74	36	6	85	61	15	26	176	--	14	2,282
Mining	1,047	168	104	8	124	234	334	38	32	--	6	--
Construction	5,440	183	759	26	426	2,937	255	151	689	--	14	--
Manufacturing	21,298	2,453	1,663	572	2,602	4,211	7,761	696	896	--	444	--
Durable goods	12,750	1,701	982	196	1,485	2,789	4,488	325	529	--	255	--
Nondurable goods	8,549	752	681	376	1,117	1,422	3,273	370	367	--	189	--
Transportation and public utilities	6,333	589	698	65	1,493	1,304	170	1,436	396	--	182	--
Wholesale and retail trade	19,327	369	4,007	3,993	3,435	1,386	861	704	1,125	--	3,446	--
Wholesale trade	3,759	128	844	893	766	349	179	360	216	--	25	--
Retail trade	15,568	241	3,163	3,099	2,669	1,038	683	344	910	--	3,421	--
Finance, insurance, and real estate	6,003	364	1,177	1,296	2,771	103	18	7	39	--	227	--
Services	29,021	10,938	2,231	172	5,335	1,520	723	199	402	1,071	6,430	--
Private households	1,212	17	--	--	12	3	6	5	61	1,071	38	--
Other service industries	27,809	10,921	2,231	172	5,323	1,517	717	194	341	--	6,392	--
Public administration	5,139	1,022	710	7	1,818	270	35	57	110	--	1,109	--

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

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
			Total		Wage and salary workers ¹			
	Feb. 1980				Feb. 1981		Paid absences ²		Unpaid absences^{2}
			Feb. 1980	Feb. 1981			Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981
Total, 16 years and over	4,551	4,058	4,270	3,840	1,686	1,539	1,929	1,724
Vacation	1,401	1,165	1,349	1,110	851	734	348	239
Illness	1,638	1,596	1,578	1,546	646	601	763	800
Bad weather	493	310	394	251	--	--	--	--
Industrial dispute	130	47	130	47	--	--	--	--
All other reasons	889	939	818	886	189	204	818	685
Males, 16 years and over	2,732	2,330	2,481	2,139	998	918	1,057	859
Vacation	818	705	769	659	503	463	161	106
Illness	918	885	871	843	399	343	385	416
All other reasons ³	996	740	840	636	96	113	512	337
Females, 16 years and over	1,819	1,728	1,789	1,701	689	622	871	867
Vacation	583	460	580	450	347	272	187	134
Illness	720	711	707	703	247	258	378	385
All other reasons ³	515	556	501	548	94	93	307	348

¹Excludes private household workers.²Pay status not available separately for bad weather and industrial dispute; these categories are included in "all other reasons."³Includes bad weather and industrial dispute, not shown separately.

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

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

Hours of work	February 1981					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total, 16 years and over	92,325	89,769	2,556	100.0	100.0	100.0
1-34 hours	25,445	24,554	890	27.6	27.4	34.8
1-4 hours	867	845	21	.9	.9	.8
5-14 hours	4,672	4,466	206	5.1	5.0	8.1
15-29 hours	12,477	12,004	473	13.5	13.4	18.5
30-34 hours	7,429	7,239	190	8.0	8.1	7.4
35 hours and over	66,879	65,213	1,667	72.4	72.6	65.2
35-39 hours	6,347	6,219	127	6.9	6.9	5.0
40 hours	38,388	37,960	428	41.6	42.3	16.7
41 hours and over	22,144	21,034	1,112	24.0	23.4	43.5
41 to 48 hours	8,686	8,468	218	9.4	9.4	8.5
49 to 59 hours	7,964	7,622	343	8.6	8.5	13.4
60 hours and over	5,494	4,944	551	6.0	5.5	21.5
Average hours, total at work	37.8	37.6	41.6	--	--	--
Average hours, workers on full-time schedules	42.2	42.0	49.0	--	--	--

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

[Numbers in thousands]

Reason for working less than 35 hours	February 1981					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 18 years and over	25,445	9,450	15,996	24,554	9,002	15,552
Economic reasons	4,210	1,823	2,387	3,936	1,635	2,301
Slack work	2,427	1,593	834	2,185	1,402	783
Material shortages or repairs to plant and equipment	51	51	--	51	51	--
New job started during week	99	99	--	99	99	--
Job terminated during week	81	81	--	81	81	--
Could find only part-time work	1,554	--	1,554	1,519	--	1,519
Other reasons	21,235	7,627	13,608	20,617	7,364	13,253
Does not want, or unavailable for, full-time work	11,462	--	11,462	11,186	--	11,186
Vacation	807	807	--	800	800	--
Illness	2,029	1,871	158	1,990	1,841	149
Bad weather	1,646	1,646	--	1,485	1,485	--
Industrial dispute	12	12	--	12	12	--
Legal or religious holiday	1,939	1,939	--	1,935	1,935	--
Full time for this job	1,399	--	1,399	1,368	--	1,368
All other reasons	1,941	1,351	590	1,844	1,293	551
Average hours:						
Economic reasons	21.5	24.3	19.4	21.6	24.4	19.6
Other reasons	21.2	26.4	18.3	21.2	26.5	18.3
Worked 30 to 34 hours:						
Economic reasons	1,270	767	503	1,186	694	492
Other reasons	6,159	4,061	2,098	6,053	3,991	2,062

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

[Numbers in thousands]

Industry	February 1981								Average hours, total at work	Average hours, workers on full-time schedules
	Full- or part-time status									
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules						
Total				40 hours or less	41 to 48 hours	49 hours or more				
Total, 18 years and over ¹	89,769	3,936	13,253	72,580	51,546	8,468	12,566	37.6	42.0	
Wage and salary workers	83,077	3,358	12,014	67,705	49,305	7,919	10,481	37.5	41.6	
Construction	4,131	274	212	3,645	2,814	303	528	37.9	40.3	
Manufacturing	20,182	606	733	18,843	13,872	2,541	2,430	40.3	41.5	
Durable goods	12,101	255	318	11,528	8,515	1,537	1,476	40.7	41.6	
Nondurable goods	8,081	351	415	7,315	5,358	1,004	953	39.6	41.4	
Transportation and public utilities	5,727	180	402	5,145	3,731	610	804	39.8	42.1	
Wholesale and retail trade	16,712	1,039	4,399	11,274	7,405	1,735	2,134	35.3	42.8	
Finance, insurance, and real estate	5,405	105	490	4,810	3,674	444	692	38.5	40.7	
Service industries	25,036	1,085	5,454	18,497	13,681	1,706	3,110	35.3	41.4	
Private households	1,074	179	541	354	248	24	82	22.8	43.5	
All other industries	23,962	906	4,913	18,143	13,433	1,682	3,028	35.9	41.4	
Public administration	4,930	59	313	4,558	3,588	446	524	39.0	40.7	
Self-employed workers	6,355	570	1,091	4,694	2,155	527	2,012	39.8	47.6	
Unpaid family workers	338	7	148	183	87	23	73	35.6	47.6	

¹ Includes mining, not shown separately.

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

(Numbers in thousands)

Sex, age, race, and marital status	February 1981							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	89,769	3,936	13,253	72,580	51,546	21,034	37.6	42.0
16 to 21 years	10,759	785	4,443	5,531	4,422	1,109	28.9	40.3
16 to 19 years	6,135	450	3,445	2,240	1,816	424	25.0	40.0
16 to 17 years	2,288	88	1,963	237	201	36	17.3	37.1
18 to 19 years	3,847	363	1,482	2,002	1,616	386	29.6	40.4
20 years and over	83,634	3,485	9,809	70,340	49,730	20,610	38.6	42.1
20 to 24 years	12,505	798	2,005	9,702	7,454	2,248	36.2	41.0
25 years and over	71,128	2,688	7,804	60,636	42,275	18,361	38.9	42.3
25 to 44 years	43,582	1,666	4,172	37,744	25,910	11,834	39.5	42.4
45 to 64 years	25,211	921	2,491	21,799	15,589	6,210	39.1	42.1
65 years and over	2,335	101	1,142	1,092	775	317	28.7	41.9
Males, 16 years and over	50,351	1,716	4,064	44,571	28,530	16,041	40.7	43.5
16 to 21 years	5,472	359	2,114	2,999	2,239	760	30.4	41.2
16 to 19 years	3,101	197	1,657	1,247	954	293	26.4	40.7
16 to 17 years	1,157	39	975	143	118	25	18.0	36.6
18 to 19 years	1,944	157	682	1,105	836	269	31.4	41.3
20 years and over	47,250	1,520	2,408	43,322	27,574	15,748	41.6	43.5
20 to 24 years	6,435	397	830	5,208	3,659	1,549	38.0	42.3
25 years and over	40,815	1,122	1,578	38,115	23,918	14,197	42.1	43.7
25 to 44 years	24,768	702	548	23,518	14,317	9,201	42.9	44.0
45 to 64 years	14,685	370	400	13,915	9,149	4,766	42.1	43.3
65 years and over	1,361	50	629	682	451	231	30.0	42.4
Females, 16 years and over	39,418	2,220	9,189	28,009	23,016	4,993	33.8	39.8
16 to 21 years	5,287	426	2,329	2,532	2,183	349	27.4	39.1
16 to 19 years	3,035	254	1,788	993	863	130	23.6	39.1
16 to 17 years	1,131	48	988	95	83	12	16.6	37.8
18 to 19 years	1,903	207	800	896	778	118	27.7	39.3
20 years and over	36,384	1,966	7,401	27,017	22,155	4,862	34.6	39.8
20 to 24 years	6,070	400	1,175	4,495	3,796	699	34.4	39.5
25 years and over	30,315	1,565	6,226	22,524	18,361	4,163	34.7	39.8
25 to 44 years	18,813	965	3,623	14,225	11,591	2,634	34.9	39.8
45 to 64 years	10,526	551	2,090	7,885	6,441	1,444	34.9	39.9
65 years and over	975	51	513	411	325	86	26.8	41.2
RACE								
White	79,769	3,303	12,140	64,326	44,732	19,594	37.7	42.2
Males	45,288	1,467	3,669	40,152	25,113	15,039	40.9	43.7
Females	34,481	1,836	8,471	24,174	19,619	4,555	33.6	39.9
Black and other	10,000	633	1,114	8,253	6,813	1,440	36.8	40.4
Males	5,062	249	395	4,418	3,416	1,002	38.7	41.5
Females	4,938	384	718	3,836	3,399	437	34.9	39.2
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	34,594	845	1,195	32,554	20,253	12,301	42.4	43.7
Widowed, divorced, or separated	4,265	186	238	3,841	2,454	1,387	41.4	43.7
Single (never married)	11,492	685	2,632	8,175	5,821	2,354	35.3	42.3
Females, 16 years and over:								
Married, spouse present	22,055	1,205	5,358	15,492	12,914	2,578	33.6	39.5
Widowed, divorced, or separated	7,761	468	1,037	6,256	4,976	1,280	36.4	40.3
Single (never married)	9,602	545	2,794	6,263	5,128	1,135	32.0	39.9

HOUSEHOLD DATA

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

[Numbers in thousands]

Occupation and sex	February 1981								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over	90,226	3,999	13,325	72,902	51,747	8,516	12,639	37.6	42.0
White-collar workers	49,898	1,333	7,333	41,232	28,574	4,422	8,236	38.3	42.4
Professional and technical	15,612	302	1,992	13,318	8,994	1,410	2,914	38.9	42.5
Managers and administrators, except farm	10,940	160	522	10,258	5,468	1,387	3,403	44.2	45.8
Sales workers	5,873	360	1,402	4,111	2,582	439	1,090	36.0	43.6
Clerical workers	17,472	512	3,418	13,542	11,527	1,186	829	34.8	39.3
Blue-collar workers	27,958	1,564	1,924	24,470	17,679	3,373	3,418	39.0	41.6
Craft and kindred workers	11,498	517	449	10,532	7,345	1,524	1,663	40.2	41.9
Operatives, except transport	9,720	560	516	8,624	6,662	1,129	833	38.9	41.0
Transport equipment operatives	3,120	194	316	2,610	1,526	407	677	40.3	44.3
Nonfarm laborers	3,619	274	643	2,702	2,145	312	245	34.6	40.1
Service workers	12,370	1,102	4,068	7,200	5,494	721	985	31.7	41.4
Private household	1,031	169	531	331	240	21	70	22.7	43.5
Other service workers	11,338	933	3,538	6,867	5,251	700	916	32.5	41.3
Males, 16 years and over	50,648	1,764	4,084	44,800	28,663	5,976	10,161	40.6	43.4
White-collar workers	23,215	381	1,595	21,239	12,182	2,667	6,390	42.7	44.9
Professional and technical	8,567	117	572	7,878	4,770	893	2,215	42.1	44.2
Managers and administrators, except farm	7,947	122	195	7,630	3,696	1,021	2,913	45.8	46.9
Sales workers	3,265	94	342	2,830	1,567	346	917	41.5	45.0
Clerical workers	3,435	48	466	2,901	2,147	408	346	37.7	41.2
Blue-collar workers	22,699	1,132	1,332	20,235	14,158	2,901	3,176	39.6	42.0
Craft and kindred workers	10,754	471	361	9,922	6,890	1,441	1,591	40.3	42.0
Operatives, except transport	5,927	252	240	5,435	3,939	790	706	40.2	42.0
Transport equipment operatives	2,835	169	187	2,479	1,433	393	653	41.3	44.4
Nonfarm laborers	3,184	240	545	2,399	1,898	276	225	34.7	40.1
Service workers	4,734	251	1,157	3,326	2,323	408	595	35.6	43.0
Private household	35	1	23	11	9	--	2	23.5	46.8
Other service workers	4,699	250	1,134	3,115	2,314	408	593	35.7	43.0
Females, 16 years and over	39,576	2,237	9,240	28,099	23,080	2,540	2,479	33.7	39.8
White-collar workers	26,683	952	5,738	19,993	16,391	1,755	1,847	34.5	39.7
Professional and technical	7,045	185	1,420	5,440	4,223	517	700	35.0	40.0
Managers and administrators, except farm	2,993	38	327	2,628	1,772	366	490	40.0	42.8
Sales workers	2,607	265	1,060	1,282	1,015	94	173	29.2	40.4
Clerical workers	14,038	464	2,931	10,643	9,381	778	484	34.1	38.8
Blue-collar workers	5,258	434	591	4,233	3,519	472	242	36.3	39.7
Craft and kindred workers	744	46	88	610	455	84	71	37.6	41.1
Operatives, except transport	3,793	328	276	3,189	2,723	339	127	36.8	39.3
Transport equipment operatives	285	26	129	130	92	14	24	30.3	42.5
Nonfarm laborers	436	34	98	304	249	36	19	33.5	39.8
Service workers	7,635	851	2,911	3,873	3,170	313	390	29.3	40.1
Private household	996	167	508	321	233	21	67	22.7	43.4
Other service workers	6,639	683	2,403	3,553	2,938	292	323	30.3	39.8

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

[Numbers in thousands]

Employment status	February 1981								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,380	3,754	3,627	6,117	3,119	2,997	1,264	635	629
Civilian labor force	1,056	554	502	986	517	469	70	37	33
Employed	861	437	424	824	418	406	37	19	18
Agriculture	46	35	10	44	34	10	1	1	--
Nonagricultural industries	815	402	413	779	384	395	36	18	18
Unemployed	195	117	78	162	99	64	33	18	15
Unemployment rate	18.5	21.1	15.5	16.4	19.2	13.7	(1)	(1)	(1)
Not in labor force	6,324	3,200	3,124	5,131	2,602	2,528	1,194	598	596
Keeping house	32	2	30	31	3	28	1	--	2
Going to school	6,152	3,129	3,023	4,983	2,537	2,446	1,169	592	577
Unable to work	7	4	3	7	4	3	--	--	--
All other reasons	133	65	69	110	59	51	23	6	17

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

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

Class of worker and occupation	February 1981					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	861	437	424	100.0	100.0	100.0
Nonagricultural industries	815	402	413	94.5	92.0	97.4
Wage and salary workers	739	343	397	85.7	78.5	93.6
Private household workers	276	36	240	32.0	8.2	56.6
Government workers	42	23	19	4.9	5.3	4.5
Other wage and salary workers	422	284	138	49.0	65.0	32.5
Self-employed workers	71	59	12	8.2	13.5	2.8
Unpaid family workers	5	--	5	.6	--	1.2
Agriculture	46	35	10	5.3	8.0	2.4
Wage and salary workers	26	17	8	3.0	3.9	1.9
Self-employed workers	3	3	--	.3	.7	--
Unpaid family workers	17	15	2	2.0	3.4	.5
OCCUPATION						
Total	861	437	424	100.0	100.0	100.0
White-collar workers	297	210	87	34.4	48.1	20.5
Professional and technical	16	5	10	1.9	1.1	2.4
Managers and administrators, except farm	2	2	--	.2	.5	--
Sales workers	212	173	39	24.6	39.6	9.2
Clerical workers	68	29	38	7.9	6.6	9.0
Blue-collar workers	100	82	18	11.6	18.8	4.2
Craft and kindred workers	7	4	4	.8	.9	.9
Operatives, except transport	20	12	8	2.3	2.7	1.9
Transport equipment operatives	5	5	--	.6	1.1	--
Nonfarm laborers	68	62	6	7.9	14.2	1.4
Service workers	421	111	309	48.8	25.4	72.9
Private household workers	251	14	237	29.1	3.2	55.9
Other service workers	170	97	72	19.7	22.2	17.0
Farm workers	43	33	10	5.0	7.6	2.4
Farmers and farm managers	3	3	--	.3	.7	--
Farm laborers and supervisors	41	31	10	4.8	7.1	2.4

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, sex, and age	1980												1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
TOTAL														
Total noninstitutional population ¹	165,298	165,506	165,693	165,886	166,105	166,391	166,578	166,789	167,005	167,201	167,396	167,585	167,747	
Armed Forces ¹	2,086	2,090	2,092	2,088	2,092	2,099	2,114	2,121	2,121	2,119	2,124	2,125	2,121	
Civilian noninstitutional population ¹	163,211	163,416	163,601	163,799	164,013	164,293	164,464	164,667	164,884	165,082	165,272	165,460	165,627	
Civilian labor force	104,271	104,171	104,427	105,060	104,591	105,020	104,945	104,980	105,167	105,285	105,067	105,543	105,681	
Percent of civilian population	63.9	63.7	63.8	64.1	63.8	63.9	63.8	63.8	63.8	63.8	63.6	63.8	63.8	
Employed	97,817	97,628	97,225	97,116	96,780	96,999	97,003	97,180	97,206	97,339	97,282	97,696	97,927	
Percent of total population	59.2	59.0	58.7	58.5	58.8	58.3	58.2	58.3	58.2	58.2	58.1	58.3	58.4	
Agriculture	3,329	3,337	3,262	3,352	3,232	3,267	3,210	3,399	3,319	3,340	3,394	3,403	3,281	
Nonagricultural industries	94,488	94,291	93,963	93,764	93,548	93,732	93,793	93,781	93,887	93,999	93,888	94,294	94,646	
Unemployed	6,454	6,543	7,202	7,944	7,811	8,021	7,942	7,800	7,961	7,946	7,785	7,847	7,754	
Unemployment rate	6.2	6.3	6.9	7.6	7.5	7.6	7.6	7.4	7.6	7.5	7.4	7.4	7.3	
Not in labor force	58,940	59,245	59,174	58,739	59,422	59,273	59,519	59,687	59,717	59,797	60,205	59,917	59,946	
Males, 20 years and over														
Total noninstitutional population ¹	70,792	70,896	70,988	71,083	71,190	71,326	71,430	71,544	71,661	71,768	71,875	71,980	72,070	
Civilian noninstitutional population ¹	69,140	69,238	69,329	69,428	69,532	69,664	69,756	69,864	69,987	70,095	70,198	70,320	70,413	
Civilian labor force	55,017	54,966	55,127	55,440	55,182	55,344	55,403	55,475	55,495	55,539	55,470	55,443	55,445	
Percent of civilian population	79.6	79.4	79.5	79.9	79.4	79.4	79.4	79.4	79.3	79.2	79.0	78.8	78.7	
Employed	52,436	52,230	51,935	51,871	51,624	51,714	51,791	51,823	51,963	52,007	52,045	52,091	52,134	
Percent of total population	74.1	73.7	73.2	73.0	72.5	72.5	72.5	72.4	72.5	72.5	72.4	72.4	72.3	
Agriculture	2,418	2,386	2,334	2,377	2,301	2,306	2,301	2,389	2,351	2,372	2,331	2,378	2,289	
Nonagricultural industries	50,018	49,844	49,601	49,494	49,323	49,408	49,490	49,434	49,612	49,635	49,714	49,713	49,844	
Unemployed	2,581	2,736	3,192	3,569	3,558	3,630	3,612	3,652	3,532	3,532	3,425	3,352	3,312	
Unemployment rate	4.7	5.0	5.8	6.4	6.4	6.6	6.5	6.6	6.4	6.4	6.2	6.0	6.0	
Not in labor force	14,123	14,272	14,202	13,988	14,350	14,320	14,353	14,389	14,492	14,556	14,728	14,877	14,968	
Females, 20 years and over														
Total noninstitutional population ¹	77,890	78,005	78,110	78,219	78,340	78,493	78,607	78,732	78,860	78,979	79,097	79,212	79,315	
Civilian noninstitutional population ¹	77,766	77,876	77,981	78,090	78,211	78,360	78,473	78,598	78,723	78,842	78,959	79,071	79,175	
Civilian labor force	39,871	39,845	40,098	40,193	40,182	40,383	40,523	40,317	40,486	40,629	40,570	40,942	41,090	
Percent of civilian population	51.3	51.2	51.4	51.5	51.4	51.5	51.6	51.3	51.4	51.5	51.4	51.8	51.9	
Employed	37,560	37,550	37,597	37,600	37,613	37,728	37,890	37,804	37,754	37,909	37,820	38,191	38,410	
Percent of total population	48.2	48.1	48.1	48.1	48.0	48.1	48.2	48.0	47.9	48.0	47.8	48.2	48.4	
Agriculture	568	577	560	598	550	564	555	592	576	574	665	621	615	
Nonagricultural industries	36,992	36,973	37,037	37,002	37,063	37,164	37,335	37,212	37,178	37,335	37,155	37,570	37,794	
Unemployed	2,311	2,295	2,501	2,593	2,569	2,655	2,633	2,513	2,732	2,720	2,750	2,750	2,680	
Unemployment rate	5.8	5.8	6.2	6.5	6.4	6.6	6.5	6.2	6.7	6.7	6.6	6.7	6.5	
Not in labor force	37,895	38,031	37,883	37,897	38,029	37,977	37,950	38,281	38,237	38,213	38,389	38,129	38,085	
Both sexes, 16-19 years														
Total noninstitutional population ¹	16,616	16,606	16,595	16,584	16,575	16,572	16,541	16,512	16,484	16,454	16,424	16,393	16,362	
Civilian noninstitutional population ¹	16,305	16,302	16,291	16,281	16,271	16,268	16,235	16,205	16,174	16,145	16,114	16,069	16,039	
Civilian labor force	9,383	9,360	9,202	9,427	9,227	9,293	9,019	9,188	9,186	9,117	9,027	9,158	9,146	
Percent of civilian population	57.5	57.4	56.5	57.9	56.7	57.1	55.5	56.7	56.8	56.5	56.0	57.0	57.0	
Employed	7,821	7,848	7,693	7,645	7,543	7,557	7,322	7,553	7,489	7,423	7,417	7,414	7,384	
Percent of total population	47.1	47.3	46.4	46.1	45.5	45.6	44.3	45.7	45.4	45.1	45.2	45.2	45.1	
Agriculture	343	374	368	377	381	397	354	418	392	394	398	404	376	
Nonagricultural industries	7,478	7,474	7,325	7,268	7,162	7,160	6,968	7,135	7,097	7,029	7,019	7,010	7,008	
Unemployed	1,562	1,512	1,509	1,782	1,684	1,736	1,697	1,635	1,697	1,694	1,610	1,744	1,762	
Unemployment rate	16.6	16.2	16.4	18.9	18.3	18.7	18.8	17.8	18.5	18.6	17.8	19.0	19.3	
Not in labor force	6,922	6,942	7,089	6,854	7,044	6,975	7,216	7,017	6,988	7,028	7,087	6,911	6,893	

¹ The population and Armed Forces figures are not adjusted for seasonal variations.

NOTE: Detail for the household data shown in tables A-33 through A-42 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Full- and part-time status	1980												1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
FULL TIME														
Total, 16 years and over:														
Civilian labor force	88,773	88,628	89,096	89,739	89,226	89,384	89,345	89,862	89,896	90,043	90,040	90,393	90,239	
Employed	83,659	83,363	83,271	83,153	82,796	82,753	82,792	83,346	83,337	83,411	83,491	83,933	83,844	
Unemployed	5,114	5,265	5,825	6,586	6,430	6,631	6,553	6,516	6,559	6,632	6,549	6,460	6,396	
Unemployment rate	5.8	5.9	6.5	7.3	7.2	7.4	7.3	7.3	7.3	7.4	7.3	7.1	7.1	
PART TIME														
Total, 16 years and over:														
Civilian labor force	15,504	15,425	15,361	15,329	15,473	15,716	15,560	15,105	15,284	15,250	15,023	15,166	15,410	
Employed	14,134	14,124	14,009	13,942	14,110	14,340	14,211	13,794	13,893	13,938	13,798	13,775	14,005	
Unemployed	1,370	1,301	1,352	1,387	1,363	1,376	1,349	1,311	1,391	1,312	1,225	1,390	1,405	
Unemployment rate	8.8	8.4	8.8	9.0	8.8	8.8	8.7	8.7	9.1	8.6	8.2	9.2	9.1	

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

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

(Numbers in thousands)

Race, sex, and age	1980												1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
WHITE														
Total, 16 years and over:														
Civilian labor force	91,873	91,802	92,044	92,501	92,134	92,335	92,288	92,317	92,516	92,562	92,383	92,832	93,035	
Employed	86,869	86,723	86,389	86,251	86,007	86,075	86,067	86,307	86,371	86,409	86,377	86,620	86,940	
Unemployed	5,004	5,079	5,655	6,250	6,127	6,260	6,221	6,010	6,145	6,153	6,006	6,213	6,095	
Unemployment rate	5.4	5.5	6.1	6.8	6.7	6.8	6.7	6.5	6.6	6.6	6.5	6.7	6.6	
Males, 20 years and over:														
Civilian labor force	49,066	49,049	49,192	49,483	49,260	49,321	49,356	49,415	49,461	49,481	49,449	49,426	49,420	
Employed	47,047	46,856	46,651	46,627	46,442	46,442	46,500	46,556	46,660	46,684	46,728	46,704	46,757	
Unemployed	2,019	2,193	2,541	2,856	2,828	2,879	2,856	2,859	2,801	2,797	2,721	2,722	2,664	
Unemployment rate	4.1	4.5	5.2	5.8	5.7	5.8	5.8	5.8	5.7	5.7	5.5	5.5	5.4	
Females, 20 years and over:														
Civilian labor force	34,445	34,382	34,606	34,641	34,657	34,749	34,846	34,765	34,883	34,972	34,910	35,313	35,423	
Employed	32,645	32,673	32,710	32,679	32,681	32,732	32,823	32,841	32,845	32,944	32,858	33,180	33,421	
Unemployed	1,800	1,709	1,896	1,962	1,976	2,017	2,023	1,924	2,038	2,028	2,052	2,133	2,002	
Unemployment rate	5.2	5.0	5.5	5.7	5.7	5.8	5.8	5.5	5.8	5.8	5.9	6.0	5.7	
Both sexes, 16 to 19 years:														
Civilian labor force	8,362	8,371	8,246	8,377	8,209	8,265	8,086	8,137	8,172	8,109	8,024	8,093	8,191	
Employed	7,177	7,194	7,028	6,945	6,884	6,901	6,744	6,910	6,866	6,781	6,791	6,735	6,762	
Unemployed	1,185	1,177	1,218	1,432	1,325	1,364	1,342	1,227	1,306	1,328	1,233	1,358	1,429	
Unemployment rate	14.2	14.1	14.8	17.1	16.1	16.5	16.6	15.1	16.0	16.4	15.4	16.8	17.4	
BLACK AND OTHER														
Total, 16 years and over:														
Civilian labor force	12,395	12,320	12,401	12,546	12,491	12,661	12,630	12,677	12,686	12,706	12,668	12,664	12,598	
Employed	10,945	10,856	10,838	10,842	10,809	10,902	10,902	10,894	10,884	10,922	10,895	11,051	10,942	
Unemployed	1,450	1,464	1,563	1,704	1,682	1,759	1,728	1,783	1,802	1,784	1,773	1,634	1,655	
Unemployment rate	11.7	11.9	12.6	13.6	13.5	13.9	13.7	14.1	14.2	14.0	14.0	12.9	13.1	
Males, 20 years and over:														
Civilian labor force	5,932	5,898	5,934	5,944	5,965	6,029	6,049	6,064	6,030	6,042	6,015	5,996	6,007	
Employed	5,367	5,340	5,291	5,249	5,235	5,275	5,291	5,266	5,300	5,315	5,315	5,367	5,355	
Unemployed	565	558	643	695	730	754	758	798	730	727	700	628	651	
Unemployment rate	9.5	9.5	10.8	11.7	12.2	12.5	12.5	13.2	12.1	12.0	11.6	10.5	10.8	
Females, 20 years and over:														
Civilian labor force	5,433	5,424	5,495	5,570	5,523	5,600	5,629	5,568	5,648	5,652	5,654	5,638	5,645	
Employed	4,928	4,854	4,884	4,925	4,920	4,966	5,017	4,978	4,953	4,965	4,956	5,016	4,976	
Unemployed	505	570	611	645	603	634	612	590	695	687	698	621	669	
Unemployment rate	9.3	10.5	11.1	11.6	10.9	11.3	10.9	10.6	12.3	12.2	12.3	11.0	11.9	
Both sexes, 16 to 19 years:														
Civilian labor force	1,030	998	972	1,032	1,003	1,032	952	1,045	1,008	1,012	999	1,051	946	
Employed	650	662	663	668	654	661	594	650	631	642	624	667	611	
Unemployed	380	336	309	364	349	371	358	395	377	370	375	384	335	
Unemployment rate	36.9	33.7	31.8	35.3	34.8	35.9	37.6	37.8	37.4	36.6	37.5	36.5	35.4	

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Category	1980											1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
CHARACTERISTIC													
Total (all civilian workers)	6.2	6.3	6.9	7.6	7.5	7.6	7.6	7.4	7.6	7.5	7.4	7.4	7.3
Males, 20 years and over	4.7	5.0	5.8	6.4	6.4	6.6	6.5	6.6	6.4	6.4	6.2	6.0	6.0
Females, 20 years and over	5.8	5.8	6.2	6.5	6.4	6.6	6.5	6.2	6.7	6.7	6.8	6.7	6.5
Both sexes, 16-19 years	16.6	16.2	16.4	18.9	18.3	18.7	18.8	17.8	18.5	18.6	17.8	19.0	19.3
White	5.4	5.5	6.1	6.8	6.7	6.8	6.7	6.5	6.6	6.6	6.5	6.7	6.6
Black and other	11.7	11.9	12.6	13.6	13.5	13.9	13.7	14.1	14.2	14.0	14.0	12.9	13.1
Married men, spouse present	3.2	3.4	4.0	4.6	4.6	4.9	4.8	4.7	4.6	4.4	4.3	4.2	4.1
Married women, spouse present	5.4	5.4	5.7	6.1	6.0	6.1	6.0	5.7	6.0	5.9	5.8	6.2	5.8
Women who maintain families	8.5	8.6	9.0	8.3	8.5	8.8	9.0	9.0	10.2	9.9	10.4	10.5	9.6
Full-time workers	5.8	5.9	6.5	7.3	7.2	7.4	7.3	7.3	7.3	7.4	7.3	7.1	7.1
Part-time workers	8.8	8.4	8.8	9.0	8.8	8.8	8.7	8.7	9.1	8.6	8.2	9.2	9.1
Unemployed 15 weeks and over ¹	1.2	1.3	1.5	1.6	1.7	1.8	2.0	2.2	2.2	2.2	2.3	2.2	2.1
Labor force time lost ²	6.6	6.8	7.6	8.6	8.1	8.4	8.3	8.2	8.4	8.3	8.2	8.2	8.1
OCCUPATION													
White-collar workers	3.4	3.4	3.7	3.8	3.7	3.7	3.7	3.8	3.9	3.9	4.0	3.9	3.7
Professional and technical	2.3	2.3	2.4	2.6	2.5	2.4	2.4	2.5	2.6	2.5	2.6	2.8	2.6
Managers and administrators, except farm	2.2	2.4	2.6	2.6	2.5	2.6	2.5	2.4	2.5	2.4	2.5	2.4	2.4
Sales workers	4.3	4.0	4.5	4.4	4.4	4.2	4.2	4.3	4.6	4.8	4.7	4.4	4.0
Clerical workers	4.7	4.8	5.1	5.3	5.2	5.4	5.4	5.4	5.6	5.6	5.8	5.7	5.3
Blue-collar workers	7.9	8.2	9.6	10.9	11.1	11.3	11.1	10.8	10.8	10.7	10.5	10.2	10.1
Craft and kindred workers	5.1	5.5	6.5	7.5	7.5	7.2	7.6	7.4	7.1	7.1	7.1	6.8	7.2
Operatives, except transport	9.3	9.4	11.6	13.7	13.4	14.4	13.3	13.0	13.2	13.0	12.9	12.1	11.9
Transport equipment operatives	6.8	6.9	8.4	8.7	10.0	10.0	9.8	10.4	10.6	10.6	8.8	9.1	8.3
Nonfarm laborers	12.5	13.3	14.1	14.9	15.7	15.8	16.1	15.2	15.3	15.0	14.8	15.0	14.9
Service workers	7.0	7.2	7.8	8.2	8.1	8.3	8.5	8.1	8.3	8.3	7.8	8.0	8.7
Farm workers	3.9	4.2	4.8	4.7	4.5	4.6	5.5	4.3	4.4	4.0	4.0	5.0	4.7
INDUSTRY													
Nonagricultural private wage and salary workers ³	6.2	6.3	7.0	8.0	8.0	8.0	8.0	7.8	7.8	7.8	7.7	7.5	7.5
Construction	10.9	13.1	14.5	16.6	15.6	15.8	17.3	15.9	14.6	14.8	13.8	13.3	13.2
Manufacturing	6.7	6.6	7.9	9.7	9.7	9.8	9.3	9.2	9.2	8.9	8.8	8.4	8.4
Durable goods	6.5	6.5	8.3	10.4	10.9	10.7	10.1	10.0	9.5	9.0	9.0	8.3	8.5
Nondurable goods	6.9	6.8	7.3	8.6	7.9	8.5	8.0	7.9	8.9	8.6	8.5	8.5	8.2
Transportation	4.5	3.9	4.7	5.0	5.1	5.6	5.6	5.3	5.3	4.9	4.9	5.8	5.5
Wholesale and retail trade	6.6	6.4	7.0	7.5	7.7	7.6	7.7	7.7	7.8	8.2	8.3	7.6	7.6
Finance and service industries	4.7	4.9	5.1	5.6	5.6	5.6	5.5	5.4	5.6	5.5	5.5	5.8	6.0
Government workers	4.0	4.1	4.3	4.2	3.5	4.1	4.0	4.1	4.4	4.2	4.1	4.4	4.3
Agricultural wage and salary workers	9.5	10.3	11.7	11.4	10.4	10.8	13.2	10.7	11.1	10.1	10.6	11.5	12.1

¹ Unemployment as a percent of the civilian labor force.

as a percent of potentially available labor force hours.

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

³ Includes mining, not shown separately.

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

[Numbers in thousands]

Weeks of unemployment	1980											1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
DURATION													
Less than 5 weeks	3,049	3,005	3,258	3,714	3,281	3,317	3,255	3,042	3,186	3,108	3,115	3,259	3,203
5 to 14 weeks	2,134	2,207	2,373	2,589	2,812	2,649	2,533	2,586	2,500	2,524	2,217	2,264	2,324
15 weeks and over	1,299	1,391	1,599	1,686	1,777	1,935	2,150	2,295	2,292	2,329	2,378	2,358	2,250
15 to 26 weeks	794	796	931	980	1,024	1,093	1,239	1,366	1,256	1,213	1,231	1,079	992
27 weeks and over	505	595	668	706	753	842	911	929	1,036	1,116	1,147	1,279	1,257
Average (mean) duration, in weeks	10.7	11.0	11.2	10.6	11.7	11.8	12.5	13.0	13.3	13.6	13.5	14.4	14.4
Median duration, in weeks	5.7	5.9	5.9	5.8	6.4	7.1	7.4	8.0	7.5	7.7	7.3	7.4	6.9
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	47.0	45.5	45.1	46.5	41.7	42.0	41.0	38.4	39.9	39.0	40.4	41.3	41.2
5 to 14 weeks	32.9	33.4	32.8	32.4	35.7	33.5	31.9	32.6	31.3	31.7	28.8	28.7	29.9
15 weeks and over	20.0	21.1	22.1	21.1	22.6	24.5	27.1	29.0	28.7	29.3	30.8	29.9	28.9
15 to 26 weeks	12.2	12.1	12.9	12.3	13.0	13.8	15.6	17.2	15.7	15.2	16.0	13.7	12.8
27 weeks and over	7.8	9.0	9.2	8.8	9.6	10.7	11.5	11.7	13.0	14.0	14.9	16.2	16.2

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

Sex and age	1980											1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
Total, 16 years and over	6.2	6.3	6.9	7.6	7.5	7.6	7.6	7.4	7.6	7.5	7.4	7.4	7.3
16 to 19 years	16.6	16.2	16.4	18.9	18.3	18.7	18.8	17.8	18.5	18.6	17.8	19.0	19.3
16 to 17 years	18.8	17.7	19.0	21.2	20.0	20.5	22.1	20.1	20.9	21.4	19.9	21.0	21.4
18 to 19 years	15.2	15.1	14.5	17.4	17.6	17.4	16.5	16.0	16.7	16.5	16.4	17.5	17.9
20 to 24 years	9.9	9.9	11.3	12.5	12.1	12.1	12.0	12.0	12.3	12.1	11.7	11.9	11.8
25 years and over	4.2	4.4	5.0	5.3	5.4	5.5	5.4	5.4	5.4	5.4	5.3	5.3	5.1
25 to 54 years	4.6	4.8	5.3	5.6	5.8	5.9	5.9	5.9	5.9	5.9	5.8	5.7	5.5
55 years and over	2.8	2.8	3.3	3.4	3.3	3.4	3.4	3.4	3.4	3.3	3.5	3.5	3.6
Males, 16 years and over	5.6	5.8	6.7	7.5	7.5	7.6	7.6	7.6	7.4	7.4	7.2	7.2	7.1
16 to 19 years	16.0	15.2	16.3	19.4	19.1	19.5	19.9	18.9	19.8	19.8	19.0	20.3	20.1
16 to 17 years	18.2	16.5	18.8	21.5	21.5	20.9	23.7	21.2	21.8	22.3	20.5	23.0	22.1
18 to 19 years	14.5	14.5	14.4	17.6	18.8	18.4	17.1	16.9	18.1	17.8	17.8	18.8	18.7
20 to 24 years	10.3	10.7	12.3	13.5	13.4	13.2	13.6	13.5	13.8	13.2	12.5	12.8	12.7
25 years and over	3.7	4.0	4.7	5.1	5.2	5.4	5.3	5.4	5.1	5.1	4.9	4.9	4.8
25 to 54 years	3.9	4.3	4.9	5.4	5.6	5.8	5.7	6.0	5.6	5.6	5.4	5.2	5.2
55 years and over	2.8	2.8	3.3	3.4	3.6	3.6	3.6	3.5	3.3	3.3	3.3	3.4	3.4
Females, 18 years and over	6.9	6.9	7.2	7.6	7.4	7.7	7.6	7.2	7.7	7.7	7.7	7.7	7.6
16 to 19 years	17.4	17.2	16.5	18.3	17.3	17.7	17.6	16.6	17.0	17.2	16.5	17.5	18.4
16 to 17 years	19.4	19.2	19.3	20.9	18.3	20.1	20.2	18.8	19.8	20.3	19.3	18.7	20.5
18 to 19 years	16.1	15.8	14.8	17.2	16.3	16.2	15.9	15.1	15.1	15.1	14.8	16.4	17.0
20 to 24 years	9.4	9.0	10.1	11.3	10.6	10.9	10.2	10.2	10.6	10.8	10.8	10.8	10.8
25 years and over	5.0	5.1	5.4	5.5	5.5	5.7	5.7	5.4	5.9	5.8	5.9	5.8	5.6
25 to 54 years	5.4	5.5	5.8	6.0	6.0	6.1	6.2	5.9	6.4	6.2	6.3	6.3	5.9
55 years and over	2.9	2.9	3.3	3.3	2.9	3.1	3.1	3.3	3.4	3.4	3.9	3.6	3.9

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

[Numbers in thousands]

Reason for unemployment	1980											1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	2,979	3,102	3,581	4,164	4,468	4,364	4,319	4,387	4,240	4,229	4,226	3,847	3,896
On layoff	1,087	1,135	1,422	1,771	1,954	1,832	1,699	1,744	1,692	1,453	1,470	1,258	1,267
Other job losers	1,892	1,967	2,159	2,393	2,514	2,532	2,620	2,643	2,548	2,776	2,756	2,590	2,629
Job leavers	831	804	905	930	887	866	890	855	870	897	813	907	884
Reentrants	1,797	1,812	1,909	1,975	1,834	1,868	1,883	1,844	2,013	1,896	1,869	2,039	1,970
New entrants	825	815	752	871	872	853	870	862	880	890	868	1,000	928
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	46.3	47.5	50.1	52.4	55.4	54.6	54.2	55.2	53.0	53.5	54.3	49.4	50.7
On layoff	16.9	17.4	19.9	22.3	24.2	22.9	21.3	21.9	21.1	18.4	18.9	16.1	16.5
Other job losers	29.4	30.1	30.2	30.1	31.2	31.7	32.9	33.3	31.8	35.1	35.4	33.2	34.2
Job leavers	12.9	12.3	12.7	11.7	11.0	10.8	11.2	10.8	10.9	11.3	10.5	11.6	11.5
Reentrants	27.9	27.7	26.7	24.9	22.8	23.4	23.6	23.2	25.2	24.0	24.0	26.2	25.7
New entrants	12.8	12.5	10.5	11.0	10.8	11.2	10.9	10.8	11.0	11.2	11.2	12.8	12.1
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.9	3.0	3.4	4.0	4.3	4.2	4.1	4.2	4.0	4.0	4.0	3.6	3.7
Job leavers .....	.8	.8	.9	.9	.8	.8	.8	.8	.8	.9	.8	.9	.8
Reentrants	1.7	1.7	1.8	1.9	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.9	1.9
New entrants .....	.8	.8	.7	.8	.8	.9	.8	.8	.8	.8	.8	.9	.9

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(In thousands)

Sex and age	1980												1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
Total, 16 years and over	97,817	97,628	97,225	97,116	96,780	96,999	97,003	97,180	97,206	97,339	97,282	97,696	97,927	
16 to 19 years	7,821	7,848	7,693	7,645	7,543	7,557	7,322	7,553	7,489	7,423	7,417	7,414	7,384	
16 to 17 years	3,125	3,189	3,060	3,049	3,039	3,056	2,837	3,003	2,963	2,916	2,906	2,937	2,927	
18 to 19 years	4,696	4,643	4,629	4,576	4,473	4,510	4,477	4,598	4,535	4,525	4,506	4,467	4,441	
20 to 24 years	13,797	13,752	13,620	13,572	13,442	13,547	13,541	13,543	13,594	13,593	13,633	13,725	13,661	
25 years and over	76,194	76,015	75,872	75,891	75,852	75,965	76,119	76,096	76,150	76,231	76,242	76,611	76,847	
25 to 54 years	61,750	61,676	61,589	61,530	61,520	61,594	61,729	61,845	61,916	62,110	62,142	62,482	62,676	
55 years and over	14,448	14,336	14,306	14,333	14,293	14,331	14,415	14,263	14,216	14,159	14,095	14,108	14,186	
Males, 16 years and over	56,631	56,489	56,054	55,914	55,597	55,678	55,589	55,754	55,881	55,897	55,920	56,012	56,045	
16 to 19 years	4,195	4,259	4,119	4,043	3,973	3,964	3,798	3,931	3,918	3,890	3,875	3,921	3,912	
16 to 17 years	1,717	1,788	1,666	1,643	1,616	1,640	1,489	1,579	1,588	1,564	1,555	1,562	1,581	
18 to 19 years	2,478	2,464	2,451	2,397	2,326	2,338	2,305	2,396	2,339	2,330	2,317	2,347	2,323	
20 to 24 years	7,442	7,415	7,284	7,271	7,140	7,185	7,149	7,175	7,174	7,190	7,245	7,253	7,223	
25 years and over	44,983	44,819	44,612	44,586	44,509	44,555	44,671	44,649	44,803	44,791	44,806	44,862	44,896	
25 to 54 years	36,105	36,008	35,851	35,820	35,785	35,820	35,894	35,977	36,076	36,128	36,131	36,204	36,206	
55 years and over	8,879	8,809	8,765	8,772	8,734	8,732	8,768	8,691	8,677	8,670	8,682	8,645	8,693	
Females, 16 years and over	41,186	41,139	41,171	41,202	41,183	41,321	41,414	41,426	41,325	41,442	41,362	41,684	41,882	
16 to 19 years	3,626	3,589	3,574	3,602	3,570	3,593	3,524	3,622	3,571	3,533	3,542	3,493	3,472	
16 to 17 years	1,408	1,401	1,394	1,406	1,423	1,416	1,348	1,424	1,375	1,352	1,351	1,375	1,346	
18 to 19 years	2,213	2,179	2,178	2,179	2,147	2,172	2,172	2,202	2,196	2,195	2,189	2,120	2,118	
20 to 24 years	6,355	6,337	6,336	6,301	6,302	6,362	6,392	6,368	6,420	6,403	6,388	6,472	6,438	
25 years and over	31,211	31,196	31,260	31,305	31,343	31,410	31,448	31,447	31,347	31,440	31,436	31,749	31,950	
25 to 54 years	25,645	25,668	25,738	25,710	25,735	25,774	25,835	25,868	25,840	25,982	26,011	26,278	26,471	
55 years and over	5,569	5,527	5,541	5,561	5,559	5,599	5,647	5,572	5,539	5,489	5,413	5,463	5,493	

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

(In thousands)

Sex and age	1980												1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
Total, 16 years and over	6,454	6,543	7,202	7,944	7,811	8,021	7,942	7,800	7,961	7,946	7,785	7,847	7,754	
16 to 19 years	1,562	1,512	1,509	1,782	1,684	1,736	1,697	1,635	1,697	1,694	1,610	1,744	1,762	
16 to 17 years	722	685	718	822	760	790	804	755	781	794	723	783	796	
18 to 19 years	844	827	788	965	957	949	886	878	909	893	881	949	967	
20 to 24 years	1,520	1,514	1,731	1,936	1,856	1,873	1,854	1,843	1,913	1,873	1,809	1,845	1,831	
25 years and over	3,374	3,522	3,961	4,216	4,298	4,435	4,385	4,344	4,368	4,342	4,302	4,269	4,171	
25 to 54 years	2,955	3,109	3,456	3,684	3,763	3,895	3,865	3,905	3,885	3,874	3,835	3,766	3,647	
55 years and over	422	419	487	502	493	509	512	507	494	489	512	507	528	
Males, 16 years and over	3,378	3,500	3,994	4,543	4,496	4,593	4,558	4,566	4,498	4,491	4,334	4,353	4,293	
16 to 19 years	797	764	802	974	938	963	946	914	966	959	909	1,001	981	
16 to 17 years	383	353	385	450	442	433	463	425	442	450	400	466	449	
18 to 19 years	419	417	411	513	538	528	475	487	518	504	501	533	534	
20 to 24 years	859	887	1,017	1,134	1,108	1,095	1,129	1,117	1,150	1,095	1,032	1,061	1,052	
25 years and over	1,736	1,857	2,178	2,397	2,466	2,551	2,497	2,557	2,398	2,406	2,324	2,306	2,283	
25 to 54 years	1,481	1,601	1,857	2,045	2,108	2,215	2,159	2,292	2,121	2,149	2,073	1,992	1,977	
55 years and over	253	256	300	310	325	329	332	319	300	293	292	306	303	
Females, 16 years and over	3,076	3,043	3,208	3,401	3,315	3,428	3,384	3,234	3,463	3,455	3,451	3,493	3,461	
16 to 19 years	765	748	707	808	746	773	751	721	731	735	701	743	781	
16 to 17 years	339	332	333	372	318	357	341	330	339	344	323	317	347	
18 to 19 years	425	410	377	452	419	421	411	391	389	380	380	416	433	
20 to 24 years	661	627	714	802	748	778	725	726	763	778	777	785	779	
25 years and over	1,638	1,665	1,783	1,819	1,832	1,884	1,888	1,787	1,970	1,936	1,978	1,962	1,887	
25 to 54 years	1,474	1,508	1,599	1,639	1,655	1,680	1,706	1,613	1,764	1,725	1,762	1,774	1,670	
55 years and over	169	163	187	192	168	180	180	188	194	196	220	201	225	

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Category	1980												1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
CHARACTERISTIC														
Total, 16 years and over	97,817	97,628	97,225	97,116	96,780	96,999	97,003	97,180	97,206	97,339	97,282	97,696	97,927	
Married men, spouse present	38,827	38,706	38,373	38,197	38,220	38,049	37,987	38,027	38,142	38,167	38,231	38,182	38,113	
Married women, spouse present	23,150	23,171	23,094	23,145	23,131	23,118	23,126	23,027	22,993	23,065	23,063	23,352	23,356	
OCCUPATION														
White-collar workers	50,447	50,336	50,465	50,627	50,836	51,023	51,307	51,074	51,101	51,148	51,065	51,594	51,698	
Professional and technical	15,423	15,408	15,528	15,540	15,682	15,717	15,751	15,540	15,780	15,863	15,810	15,965	15,813	
Managers and administrators, except farm	10,953	10,765	10,773	10,877	10,901	10,999	11,109	11,007	10,979	11,016	11,009	11,363	11,488	
Sales workers	6,179	6,132	6,048	6,072	6,046	6,130	6,140	6,316	6,277	6,155	6,175	6,265	6,271	
Clerical workers	17,892	18,031	18,116	18,138	18,207	18,177	18,307	18,211	18,065	18,114	18,071	18,001	18,125	
Blue-collar workers	31,669	31,568	31,120	30,800	30,443	30,276	30,232	30,436	30,521	30,550	30,373	30,338	30,446	
Craft and kindred workers	12,722	12,740	12,713	12,551	12,357	12,403	12,346	12,490	12,485	12,424	12,337	12,306	12,386	
Operatives, except transport Transport equipment operatives	10,648	10,556	10,450	10,379	10,233	10,189	10,147	10,202	10,210	10,247	10,194	10,331	10,390	
Nonfarm laborers	3,557	3,551	3,495	3,458	3,429	3,354	3,478	3,434	3,443	3,429	3,402	3,322	3,361	
Service workers	4,742	4,721	4,462	4,412	4,424	4,330	4,261	4,310	4,383	4,450	4,440	4,380	4,309	
Farm workers	13,005	12,982	13,009	12,947	12,941	13,017	12,928	12,943	12,891	12,888	12,982	12,946	13,070	
Unpaid family workers	2,745	2,718	2,682	2,730	2,625	2,694	2,620	2,757	2,735	2,729	2,804	2,737	2,662	
MAJOR INDUSTRY AND CLASS OF WORKER														
Agriculture:														
Wage and salary workers	1,411	1,429	1,377	1,396	1,369	1,360	1,282	1,417	1,363	1,417	1,411	1,465	1,336	
Self-employed workers	1,636	1,612	1,602	1,642	1,606	1,631	1,640	1,688	1,640	1,612	1,655	1,615	1,610	
Unpaid family workers	293	295	287	292	278	295	280	309	325	324	305	284	325	
Nonagricultural industries:														
Wage and salary workers	87,192	87,110	86,789	86,722	86,370	86,432	86,490	86,395	86,587	86,643	86,513	87,125	87,236	
Government	15,539	15,605	15,635	15,720	15,817	15,718	15,531	15,575	15,597	15,651	15,653	15,738	15,589	
Private industries	71,653	71,505	71,154	71,002	70,553	70,714	70,959	70,820	70,990	70,992	70,860	71,387	71,647	
Private households	1,181	1,140	1,151	1,197	1,204	1,230	1,196	1,125	1,144	1,148	1,110	1,197	1,176	
Other industries	70,472	70,365	70,003	69,805	69,349	69,484	69,763	69,695	69,846	69,844	69,750	70,190	70,471	
Self-employed workers	6,841	6,807	6,804	6,698	6,728	6,801	6,881	6,977	7,005	6,943	6,973	6,839	6,923	
Unpaid family workers	400	385	363	406	445	426	403	416	417	405	396	422	371	
PERSONS AT WORK¹														
Nonagricultural industries	88,830	88,505	88,041	87,974	87,994	87,431	88,195	88,246	88,488	88,694	88,468	89,499	89,441	
Full-time schedules	72,937	72,618	71,986	71,501	71,454	70,825	71,526	71,929	72,071	72,265	72,131	72,807	72,945	
Part-time for economic reasons	3,454	3,470	3,803	4,276	3,969	4,086	4,143	4,183	4,220	4,176	4,218	4,474	4,145	
Usually work full-time	1,415	1,481	1,680	1,998	1,734	1,794	1,709	1,701	1,685	1,620	1,647	1,698	1,622	
Usually work part-time	2,039	1,989	2,123	2,278	2,235	2,292	2,434	2,482	2,535	2,556	2,571	2,776	2,523	
Part time for noneconomic reasons	12,439	12,417	12,252	12,197	12,571	12,520	12,526	12,134	12,197	12,253	12,119	12,218	12,351	

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 by age

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninstitutional population		Civilian labor force							
			Total		Employed		Unemployed			
	Number						Percent of labor force			
Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	Feb. 1980	Feb. 1981	
VETERANS										
Total, 25 years and over	8,154	8,468	7,727	7,994	7,310	7,482	417	512	5.4	6.4
25 to 39 years	7,219	7,325	6,939	7,006	6,546	6,527	393	479	5.7	6.8
25 to 29 years	1,804	1,571	1,716	1,454	1,554	1,292	162	162	9.4	11.1
30 to 34 years	3,609	3,450	3,489	3,328	3,339	3,114	150	214	4.3	6.4
35 to 39 years	1,806	2,304	1,734	2,224	1,653	2,121	81	103	4.7	4.6
40 years and over	935	1,143	788	988	764	955	24	33	3.0	3.3
NONVETERANS										
Total, 25 to 39 years	15,148	16,018	14,371	15,145	13,568	14,044	803	1,101	5.6	7.3
25 to 29 years	6,932	7,289	6,547	6,845	6,125	6,264	422	581	6.4	8.5
30 to 34 years	4,416	4,989	4,211	4,743	3,998	4,420	213	323	5.1	6.8
35 to 39 years	3,800	3,740	3,613	3,557	3,445	3,360	168	197	4.6	5.5

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

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

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
-	TOTAL	90,657	89,630	91,846	90,098	90,147	-	-	-	-	-
-	PRIVATE SECTOR	74,486	73,601	75,494	73,972	73,827	60,594	59,871	61,427	59,916	59,748
-	MINING	1,025	982	1,064	1,067	1,068	764	734	791	791	793
10	METAL MINING	96.8	103.7	100.9	101.3	-	72.9	79.0	76.1	76.4	-
101	Iron ores	21.0	23.6	19.7	19.8	-	16.3	18.8	15.0	15.3	-
102	Copper ores	29.4	34.7	35.7	36.1	-	22.6	26.9	27.7	28.1	-
11, 12	COAL MINING	261.9	262.7	265.7	267.5	-	216.9	218.4	219.6	220.9	-
12	BITUMINOUS COAL AND LIGNITE MINING	258.6	259.5	262.4	264.2	-	213.9	215.5	216.6	217.9	-
13	OIL AND GAS EXTRACTION	547.4	501.3	584.1	593.2	-	381.1	347.4	408.2	414.9	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	218.3	204.4	228.1	229.4	-	100.0	95.3	102.0	101.4	-
138	Oil and gas field services	329.1	296.9	356.0	363.8	-	281.1	252.1	306.2	313.5	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	118.5	114.2	112.8	104.7	-	92.7	88.8	87.4	78.7	-
142	Crushed and broken stone	38.2	36.9	35.1	31.4	-	31.8	30.3	29.0	25.1	-
144	Sand and gravel	35.7	33.5	33.1	29.8	-	-	-	-	-	-
147	Chemical and fertilizer minerals	25.3	25.0	25.4	25.3	-	-	-	-	-	-
-	CONSTRUCTION	4,469	4,194	4,431	4,078	3,969	3,517	3,271	3,463	3,117	3,011
15	GENERAL BUILDING CONTRACTORS	1,220.8	1,182.9	1,209.9	1,119.1	-	936.4	905.1	919.6	829.1	-
152	Residential building construction	572.4	552.3	573.5	528.0	-	421.4	403.9	420.9	375.4	-
153	Operative builders	72.3	78.7	69.2	66.0	-	43.1	49.2	39.3	36.6	-
154	Nonresidential building construction	576.1	551.9	567.2	525.1	-	471.9	452.0	459.4	417.1	-
16	HEAVY CONSTRUCTION CONTRACTORS	878.6	771.7	823.2	717.5	-	707.7	607.2	651.6	557.6	-
161	Highway and street construction	259.8	193.1	221.8	176.3	-	220.0	153.8	183.3	139.9	-
162	Heavy construction, except highway	618.8	578.6	601.4	541.2	-	487.8	453.4	468.3	417.7	-
17	SPECIAL TRADE CONTRACTORS	2,369.8	2,239.8	2,398.1	2,240.9	-	1,873.2	1,758.3	1,891.7	1,730.6	-
171	Plumbing, heating, air conditioning	576.3	569.1	589.9	581.3	-	433.2	432.0	442.6	432.7	-
172	Painting, paper hanging, decorating	155.5	140.3	148.8	131.4	-	130.7	114.4	124.5	105.7	-
173	Electrical work	427.6	421.0	441.3	432.2	-	331.8	328.4	342.0	331.6	-
174	Masonry, stonework, and plastering	378.8	354.9	381.5	351.8	-	325.8	303.9	327.8	296.5	-
175	Carpentering and flooring	123.0	120.6	126.5	118.2	-	92.9	91.2	95.6	87.2	-
176	Roofing and sheet metal work	171.2	153.2	174.0	148.5	-	138.3	121.1	140.7	115.4	-
-	MANUFACTURING	20,361	20,777	20,316	20,158	20,146	14,277	14,738	14,199	14,053	14,065
24, 25, 32-39	DURABLE GOODS	12,215	12,600	12,186	12,112	12,085	8,468	8,885	8,413	8,341	8,329
20-23, 26-31	NONDURABLE GOODS	8,146	8,177	8,130	8,046	8,061	5,809	5,853	5,786	5,712	5,736
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	686.9	717.4	679.8	667.7	667.9	575.2	605.0	567.9	555.7	554.9
241	Logging camps and logging contractors	84.0	83.3	80.6	78.5	-	68.7	68.6	64.7	62.1	-
242	Sawmills and planing mills	214.0	226.0	208.6	205.3	-	189.6	201.2	184.1	181.0	-
2421	Sawmills and planing mills, general	178.1	186.9	174.2	170.8	-	158.1	166.9	154.1	151.0	-
2426	Hardwood dimension and flooring	29.1	32.0	28.5	28.4	-	25.3	27.9	24.7	24.5	-
243	Millwork, plywood, and structural members	198.0	209.5	202.2	200.1	-	162.7	173.6	167.3	165.5	-
2431	Millwork	67.9	72.9	69.3	68.9	-	54.3	59.0	55.8	55.5	-
2434	Wood kitchen cabinets	45.7	48.7	45.6	45.0	-	37.5	40.5	36.8	36.3	-
2435	Hardwood veneer and plywood	26.2	27.5	26.9	27.1	-	23.0	24.5	23.7	23.7	-
2436	Softwood veneer and plywood	43.0	44.9	44.8	44.4	-	36.9	38.4	39.3	39.2	-
244	Wooden containers	42.9	43.6	42.0	41.7	-	37.2	38.0	36.3	35.9	-
245	Wood buildings and mobile homes	67.2	71.8	65.9	62.9	-	50.2	54.5	48.6	45.9	-
2451	Mobile homes	47.8	51.3	46.6	45.0	-	37.0	40.6	35.8	34.1	-
249	Miscellaneous wood products	80.7	83.2	80.5	79.2	-	66.8	69.1	66.9	65.3	-
26	FURNITURE AND FIXTURES	473.7	498.0	475.8	474.2	473.8	382.6	405.6	384.9	382.5	382.0
251	Household furniture	303.0	328.3	314.3	311.6	-	259.2	277.6	264.1	261.3	-
2511	Wood household furniture	141.4	148.8	144.9	144.0	-	122.7	130.4	126.0	124.7	-
2512	Upholstered household furniture	95.4	99.7	97.1	96.1	-	78.7	82.8	80.0	78.8	-
2514	Metal household furniture	28.7	33.3	30.0	30.0	-	23.1	27.2	24.2	24.5	-
2515	Mattresses and bedspreads	23.7	31.1	27.8	27.8	-	21.9	23.8	21.3	21.3	-
252	Office furniture	43.4	51.0	49.7	50.6	-	38.9	40.5	39.0	39.6	-
253	Public building and related furniture	25.2	26.0	24.6	24.7	-	18.7	19.3	18.1	18.2	-
254	Partitions and fixtures	62.3	63.6	59.3	59.4	-	46.5	48.0	44.3	44.1	-
259	Miscellaneous furniture and fixtures	27.8	29.1	27.9	27.9	-	19.3	20.2	19.4	19.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
32	STONE, CLAY, AND GLASS PRODUCTS	667.9	678.2	654.3	636.2	632.0	517.7	528.6	504.6	487.0	484.4
321	Flat glass	18.1	18.5	18.9	19.3	-	13.9	14.3	14.4	14.6	-
322	Glass and glassware, pressed or blown	127.4	130.3	125.3	123.5	-	107.9	111.1	105.2	103.6	-
3221	Glass containers	69.8	70.7	68.3	66.8	-	61.1	62.0	59.6	58.2	-
3229	Pressed and blown glass, nec	57.6	59.6	57.0	56.7	-	46.8	49.1	45.6	45.4	-
323	Products of purchased glass	45.2	46.1	46.2	45.9	-	32.2	34.3	32.1	31.7	-
324	Cement, hydraulic	31.9	32.4	30.9	30.5	-	25.5	25.8	24.3	23.9	-
325	Structural clay products	45.5	48.5	44.3	42.1	-	34.3	36.7	33.7	31.6	-
326	Pottery and related products	45.1	47.2	43.6	43.2	-	37.3	39.2	36.0	35.7	-
327	Concrete, gypsum, and plaster products	200.9	195.9	192.3	179.5	-	154.6	148.9	147.3	135.0	-
3271	Concrete block and brick	21.4	21.2	20.8	19.2	-	14.8	14.6	14.4	13.0	-
3272	Concrete products, nec	65.8	65.4	62.3	59.2	-	49.6	49.1	46.7	43.7	-
3273	Ready-mixed concrete	92.9	87.3	88.8	80.9	-	73.2	67.2	69.6	61.9	-
329	Misc. nonmetallic mineral products	141.6	147.6	140.7	140.5	-	102.3	108.9	101.9	101.6	-
3291	Abrasive products	28.8	29.8	28.4	28.6	-	19.3	20.5	19.3	19.3	-
3292	Asbestos products	19.1	21.1	19.1	19.2	-	14.6	16.3	14.8	15.0	-
3296	Mineral wool	32.5	33.2	32.7	32.4	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,133.3	1,207.2	1,124.6	1,127.0	1,127.3	870.7	941.8	866.4	869.0	870.0
331	Blast furnace and basic steel products	508.2	543.8	503.5	507.3	-	392.8	426.0	390.7	394.8	-
3312	Blast furnaces and steel mills	425.4	455.5	421.8	425.4	-	329.8	358.0	328.6	332.7	-
3317	Steel pipe and tubes	28.2	29.2	28.9	28.9	-	21.6	22.6	22.2	22.3	-
332	Iron and steel foundries	204.5	223.3	200.3	199.7	-	163.8	181.0	160.7	159.9	-
3321	Gray iron foundries	120.4	133.2	119.2	118.4	-	98.0	109.8	97.2	96.3	-
3322	Malleable iron foundries	15.7	18.3	15.1	15.2	-	12.0	14.2	11.6	11.8	-
3325	Steel foundries, nec	55.8	59.2	53.3	53.4	-	44.4	47.3	42.6	42.6	-
333	Primary nonferrous metals	68.3	71.0	69.6	69.5	-	51.7	54.8	52.9	52.4	-
3334	Primary aluminum	36.1	36.4	35.5	35.4	-	28.3	29.2	27.6	27.3	-
335	Nonferrous rolling and drawing	211.1	219.4	210.8	210.3	-	151.3	160.6	151.1	151.2	-
3351	Copper rolling and drawing	29.9	33.1	28.4	28.3	-	22.4	25.3	21.1	21.1	-
3353	Aluminum sheet, plate, and foil	36.4	36.4	36.7	36.8	-	27.7	27.9	28.1	28.3	-
3357	Nonferrous wire drawing and insulating	88.2	91.1	89.6	89.6	-	63.7	67.1	64.9	64.7	-
336	Nonferrous foundries	89.7	97.3	88.2	88.1	-	71.9	79.2	71.0	71.0	-
3361	Aluminum foundries	52.3	56.8	51.7	51.9	-	42.6	47.0	42.5	42.8	-
34	FABRICATED METAL PRODUCTS	1,627.1	1,696.8	1,614.6	1,598.5	1,598.2	1,206.7	1,273.0	1,196.7	1,181.5	1,183.5
341	Metal cans and shipping containers	77.1	78.9	74.0	73.9	-	65.1	66.5	62.3	62.0	-
3411	Metal cans	62.9	64.7	60.1	60.1	-	53.5	55.0	51.0	50.9	-
342	Cutlery, hand tools, and hardware	168.6	181.1	171.5	170.3	-	128.7	139.9	132.5	131.5	-
3423,5	Hand and edge tools, and hand saws and blades	59.7	65.0	59.5	59.1	-	46.1	50.9	45.9	45.6	-
3429	Hardware, nec	93.9	100.4	97.4	96.9	-	71.3	77.6	74.9	74.4	-
343	Plumbing and heating, except electric	69.4	75.9	67.9	67.3	-	50.0	56.5	48.9	48.1	-
3432	Plumbing fittings and brass goods	25.4	28.0	24.5	25.0	-	20.5	23.0	19.7	19.8	-
3433	Heating equipment, except electric	33.1	36.8	31.8	30.8	-	22.0	25.5	21.0	20.3	-
344	Fabricated structural metal products	517.9	532.9	516.8	510.9	-	358.5	375.0	356.4	349.9	-
3441	Fabricated structural metal	105.7	109.9	103.8	102.6	-	76.5	79.7	75.4	74.1	-
3442	Metal doors, sash, and trim	82.8	85.9	85.3	82.5	-	60.7	63.9	63.0	59.9	-
3443	Fabricated plate work (boiler shops)	149.0	149.8	149.5	148.5	-	93.0	95.7	91.9	90.7	-
3444	Sheet metal work	111.0	115.3	109.4	108.7	-	81.2	85.8	79.6	79.0	-
3446	Architectural metal work	32.6	32.2	33.4	33.3	-	23.2	23.3	23.8	23.5	-
345	Screw machine products, bolts, etc.	108.8	116.5	104.6	104.4	-	84.2	91.4	80.5	80.5	-
3451	Screw machine products	51.8	55.3	50.0	49.9	-	42.3	45.7	40.5	40.4	-
3452	Bolts, nuts, rivets, and washers	56.9	61.2	54.6	54.5	-	41.9	45.7	40.0	40.1	-
346	Metal forgings and stampings	263.0	275.4	261.6	255.2	-	206.0	216.2	205.7	199.7	-
3462	Iron and steel forgings	51.5	56.1	49.9	50.2	-	39.8	43.8	38.4	38.6	-
3465	Automotive stampings	87.0	87.8	89.4	83.2	-	70.0	69.1	73.1	67.7	-
3469	Metal stampings, nec	113.2	120.0	111.0	110.5	-	87.5	94.3	85.4	84.6	-
347	Metal services, nec	108.5	109.9	109.9	108.3	-	87.5	89.1	88.2	87.2	-
3471	Plating and polishing	72.4	74.2	73.3	71.9	-	59.0	60.8	59.8	58.6	-
3479	Metal coating and allied services	36.1	35.7	36.6	36.4	-	28.5	28.3	28.4	28.6	-
348	Ordinance and accessories, nec	60.8	62.9	59.5	59.5	-	40.7	42.4	39.9	39.7	-
3483	Ammunition, exc. for small arms, nec	27.8	28.2	28.2	28.1	-	18.9	19.3	19.5	19.4	-
349	Misc. fabricated metal products	253.1	263.3	248.8	248.7	-	186.0	196.0	182.3	182.9	-
3494	Valves and pipe fittings	103.5	107.4	101.6	101.8	-	70.8	73.9	69.3	69.6	-
3496	Misc. fabricated wire products	53.5	55.8	52.8	52.5	-	41.9	44.0	41.2	40.9	-
35	MACHINERY, EXCEPT ELECTRICAL	2,488.8	2,538.5	2,492.5	2,491.4	2,497.2	1,600.9	1,666.6	1,589.3	1,589.0	1,594.1
351	Engines and turbines	135.3	144.0	133.0	132.3	-	87.3	95.4	85.5	85.9	-
3511	Turbines and turbine generator sets	39.7	39.8	40.1	38.9	-	20.2	20.2	20.9	20.6	-
3519	Internal combustion engines, nec	95.6	104.2	92.9	93.4	-	67.1	75.2	64.6	65.3	-
352	Farm and garden machinery	169.9	179.5	173.3	172.7	-	117.8	128.4	121.4	120.6	-
3523	Farm machinery and equipment	149.9	155.8	152.1	151.6	-	104.1	111.3	106.1	105.4	-
353	Construction and related machinery	392.9	400.0	393.6	394.5	-	256.9	266.2	255.2	256.9	-
3531	Construction machinery	154.6	163.0	148.3	147.5	-	103.2	110.7	97.7	97.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3532	Mining machinery.....	34.6	35.3	34.7	35.0	-	21.4	22.5	21.4	21.7	-
3533	Oil field machinery.....	96.4	90.2	103.8	105.8	-	65.9	61.6	70.8	72.9	-
3535	Conveyers and conveying equipment.....	33.1	34.2	33.1	32.8	-	18.6	20.6	18.5	18.2	-
3537	Industrial trucks and tractors.....	38.5	41.1	38.0	37.9	-	25.5	27.9	24.6	24.7	-
354	Metalworking machinery.....	371.5	378.8	367.7	364.4	-	271.5	280.1	267.4	264.7	-
3541	Machine tools, metal cutting types.....	79.8	80.1	79.2	79.2	-	53.4	54.3	52.4	52.5	-
3542	Machine tools, metal forming types.....	27.4	28.0	26.8	26.6	-	17.7	18.4	17.0	16.9	-
3544	Special dies, tools, jigs, and fixtures.....	133.8	137.3	134.4	132.1	-	106.8	110.3	106.9	105.0	-
3545	Machine tool accessories.....	71.2	71.7	70.0	69.6	-	50.8	51.7	49.7	49.2	-
3546	Power driven hand tools.....	34.5	36.4	33.5	33.3	-	26.5	28.5	25.8	25.6	-
355	Special industry machinery.....	208.3	209.9	206.2	206.1	-	133.1	135.1	130.5	130.4	-
3551	Food products machinery.....	46.8	47.5	46.2	46.2	-	29.9	30.7	29.3	29.6	-
3552	Textile machinery.....	27.1	27.9	26.4	26.3	-	19.2	20.0	18.6	18.5	-
3555	Printing trades machinery.....	40.5	38.9	41.9	42.1	-	25.1	23.9	25.8	26.0	-
356	General industrial machinery.....	322.9	334.4	317.3	318.0	-	210.9	224.2	205.4	205.6	-
3561	Pumps and pumping equipment.....	62.2	64.3	60.0	61.4	-	36.8	39.2	34.5	35.3	-
3562	Ball and roller bearings.....	58.7	60.8	58.9	59.0	-	45.8	48.2	45.8	45.6	-
3563	Air and gas compressors.....	30.9	31.8	30.5	30.5	-	18.3	19.0	18.2	18.1	-
3564	Blowers and fans.....	41.9	43.7	41.0	41.4	-	25.8	28.4	25.3	26.0	-
3566	Speed changers, drives, and gears.....	26.1	27.3	25.3	25.4	-	17.6	18.8	16.9	17.0	-
3568	Power transmission equipment, nec.....	23.0	25.1	21.6	21.5	-	16.3	18.1	15.1	15.2	-
357	Office and computing machines.....	430.8	419.3	443.4	444.1	-	186.1	185.8	187.4	186.1	-
3573	Electronic computing equipment.....	352.7	340.7	365.1	365.6	-	141.9	139.4	144.4	143.3	-
358	Refrigeration and service machinery.....	173.0	183.1	173.6	173.7	-	118.8	127.5	119.5	119.8	-
3585	Refrigeration and heating equipment.....	115.9	125.5	117.4	117.5	-	79.8	88.0	81.6	81.8	-
359	Misc. machinery, except electrical.....	284.3	289.5	284.4	285.6	-	218.5	223.9	217.0	219.0	-
3592	Carburetors, pistons, rings, valves.....	39.9	43.1	39.6	39.9	-	31.5	34.4	31.4	32.3	-
3599	Machinery, except electrical, nec.....	244.4	246.4	244.8	245.7	-	187.0	189.5	185.6	186.7	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT.....	2,126.3	2,162.9	2,143.9	2,143.4	2,143.5	1,354.0	1,409.2	1,356.0	1,352.3	1,352.0
361	Electric distributing equipment.....	119.5	125.5	118.2	117.2	-	83.7	89.4	83.0	82.6	-
3612	Transformers.....	52.5	56.1	50.8	50.9	-	36.5	39.8	35.0	35.4	-
3613	Switchgear and switchboard apparatus.....	67.0	69.4	67.4	66.3	-	47.1	49.6	48.0	47.2	-
362	Electrical industrial apparatus.....	238.5	251.0	233.5	235.2	-	168.5	180.3	165.2	166.2	-
3621	Motors and generators.....	120.1	128.9	118.6	120.2	-	90.1	97.5	89.9	91.5	-
3622	Industrial controls.....	70.2	72.3	68.7	68.8	-	44.1	46.9	42.9	42.7	-
363	Household appliances.....	169.8	177.8	174.8	174.8	-	134.4	140.2	139.2	139.5	-
3632	Household refrigerators and freezers.....	35.8	38.5	37.1	38.9	-	28.7	31.2	30.0	32.1	-
3633	Household laundry equipment.....	21.6	23.9	22.3	22.5	-	16.8	19.0	17.5	17.8	-
3634	Electric housewares and fans.....	52.2	53.0	52.1	51.2	-	42.4	42.3	42.1	41.4	-
364	Electric lighting and wiring equipment.....	212.6	225.0	209.2	208.4	-	158.2	169.4	155.5	153.9	-
3641	Electric lamps.....	35.5	38.1	34.7	34.7	-	31.3	33.8	30.7	30.4	-
3643	Current-carrying wiring devices.....	91.9	94.9	90.7	89.9	-	63.9	66.5	62.7	61.8	-
3644	Noncurrent-carrying wiring devices.....	23.9	25.4	23.9	24.1	-	17.1	18.4	17.3	17.3	-
3645	Residential lighting fixtures.....	23.5	25.3	23.2	23.3	-	17.8	19.7	17.6	17.5	-
365	Radio and TV receiving equipment.....	108.2	110.9	109.9	107.6	-	78.1	81.4	78.8	77.1	-
3651	Radio and TV receiving sets.....	84.0	86.3	85.2	84.6	-	58.7	61.7	59.0	59.0	-
366	Communication equipment.....	550.8	545.1	555.2	555.7	-	272.7	275.6	272.1	271.7	-
3661	Telephone and telegraph apparatus.....	173.1	175.6	168.1	169.3	-	118.5	123.3	112.7	112.8	-
3662	Radio and TV communication equipment.....	377.7	369.5	387.1	386.4	-	154.2	152.3	159.4	158.9	-
367	Electronic components and accessories.....	558.3	555.0	563.6	565.9	-	337.3	347.2	331.4	331.8	-
3671-3	Electronic tubes.....	45.5	44.6	46.2	46.2	-	28.4	28.1	28.5	28.8	-
3674	Semiconductors and related devices.....	222.2	214.6	229.7	231.6	-	98.5	100.7	96.8	97.3	-
3679	Electronic components, nec.....	215.4	216.8	216.0	216.4	-	150.8	154.5	150.5	150.3	-
369	Misc. electrical equipment and supplies.....	168.6	172.6	179.5	178.6	-	121.2	125.7	130.8	129.5	-
3691	Storage batteries.....	31.8	32.2	36.0	35.7	-	24.8	25.6	28.6	28.2	-
3694	Engine electrical equipment.....	77.7	80.3	84.2	83.1	-	58.4	60.7	64.8	63.4	-
37	TRANSPORTATION EQUIPMENT.....	1,889.8	1,975.8	1,888.4	1,870.2	1,842.1	1,225.8	1,312.4	1,226.4	1,210.4	1,192.3
371	Motor vehicles and equipment.....	773.8	855.3	762.4	742.5	-	565.8	633.0	568.7	551.3	-
3711	Motor vehicles and car bodies.....	352.2	378.7	338.1	323.0	-	242.0	259.9	238.4	225.0	-
3713	Truck and bus bodies.....	37.7	42.6	35.5	34.8	-	28.8	33.5	26.5	26.0	-
3714	Motor vehicle parts and accessories.....	351.5	396.9	356.1	352.0	-	270.9	311.4	279.4	276.0	-
3715,6	Truck trailers and motor homes.....	32.5	37.1	32.7	32.7	-	24.0	28.2	24.4	24.3	-
372	Aircraft and parts.....	655.4	647.1	668.3	670.1	-	356.6	357.9	363.5	364.6	-
3721	Aircraft.....	354.6	350.4	363.7	364.7	-	176.3	178.0	181.2	181.9	-
3724	Aircraft engines and engine parts.....	162.1	162.1	164.9	165.8	-	92.5	94.4	94.1	94.9	-
3728	Aircraft equipment, nec.....	138.7	134.6	139.7	139.6	-	87.9	85.5	88.2	87.8	-
373	Ship and boat building and repairing.....	213.8	219.6	217.0	217.8	-	169.7	175.2	172.6	173.0	-
3731	Ship building and repairing.....	170.4	172.1	172.0	173.2	-	134.2	136.0	135.4	136.2	-
3732	Boat building and repairing.....	43.5	47.5	45.0	44.6	-	35.6	39.2	37.2	36.8	-
374	Railroad equipment.....	67.7	75.3	58.1	56.7	-	51.0	58.7	42.2	41.0	-
376	Guided missiles, space vehicles, parts.....	112.3	106.6	118.0	118.3	-	35.3	34.0	35.9	36.1	-
3761	Guided missiles and space vehicles.....	89.3	84.5	94.2	94.4	-	26.4	25.1	27.1	27.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	47.3	50.8	49.9	50.0	-	32.1	36.4	34.4	35.0	-
3792	Travel trailers and campers	25.4	28.5	28.5	28.8	-	18.9	22.0	21.9	22.6	-
38	INSTRUMENTS AND RELATED PRODUCTS	699.7	697.7	702.2	701.3	698.5	418.1	420.6	417.8	416.9	416.6
381	Engineering and scientific instruments	78.1	76.7	79.5	79.7	-	38.1	37.9	38.9	38.9	-
382	Measuring and controlling devices	237.5	239.6	237.3	238.0	-	148.6	152.9	147.9	149.2	-
3822	Environmental controls	45.8	48.9	45.3	45.5	-	31.5	34.3	31.2	31.4	-
3823	Process control instruments	52.8	52.3	53.7	54.0	-	27.7	27.6	28.3	28.6	-
3825	Instruments to measure electricity	98.6	97.1	99.0	99.5	-	60.4	60.9	60.5	61.5	-
383	Optical instruments and lenses	34.7	34.1	35.0	35.0	-	19.2	18.9	19.3	19.1	-
384	Medical instruments and supplies	145.9	143.7	147.7	148.0	-	95.0	93.7	95.6	95.5	-
3841	Surgical and medical instruments	64.1	62.9	65.1	65.5	-	41.9	40.7	42.4	42.4	-
3842	Surgical appliances and supplies	65.2	64.1	66.0	65.8	-	42.6	42.3	42.8	42.6	-
385	Ophthalmic goods	46.9	47.1	46.5	45.6	-	33.5	34.0	32.8	32.1	-
388	Photographic equipment and supplies	133.8	132.2	134.7	134.0	-	66.6	65.0	67.6	66.8	-
387	Watches, clocks, and watchcases	22.8	24.3	21.5	21.0	-	17.0	18.2	15.7	15.3	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	422.0	427.7	410.1	402.2	404.3	316.8	322.4	303.0	297.0	299.3
391	Jewelry, silverware, and plated ware	56.5	57.8	58.8	55.3	-	40.2	41.1	42.3	39.3	-
3911	Jewelry, precious metal	36.5	37.3	38.4	35.3	-	25.8	26.3	27.2	24.6	-
393	Musical instruments	21.0	22.9	21.4	21.2	-	17.0	18.8	17.3	17.1	-
394	Toys and sporting goods	115.3	113.4	103.9	102.9	-	87.1	85.4	75.6	75.1	-
3942, 4	Dolls, games, toys, and children's vehicles	56.0	51.5	48.0	47.6	-	41.2	36.8	32.8	32.8	-
3949	Sporting and athletic goods, nec	59.4	61.9	55.9	55.3	-	45.9	48.6	42.8	42.3	-
395	Pens, pencils, office and art supplies	39.9	39.9	40.7	40.0	-	28.3	28.3	28.7	28.5	-
396	Costume jewelry and notions	52.9	54.2	52.0	50.2	-	42.0	43.2	41.0	39.3	-
3961	Costume jewelry	27.9	29.0	28.8	27.3	-	21.9	23.0	22.7	21.3	-
399	Miscellaneous manufactures	136.4	139.5	133.3	132.6	-	102.2	105.6	98.1	97.7	-
3993	Signs and advertising displays	46.2	47.6	45.9	46.0	-	33.4	34.6	33.2	33.2	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,690.4	1,659.9	1,667.2	1,624.0	1,615.7	1,156.8	1,130.4	1,135.8	1,098.7	1,087.9
201	Meat products	361.8	357.3	363.4	354.3	-	301.3	296.6	303.5	294.6	-
2011	Meat packing plants	162.4	162.4	162.6	159.0	-	132.7	132.1	133.3	130.0	-
2013	Sausages and other prepared meats	68.6	68.2	68.5	67.5	-	50.5	50.0	50.7	49.8	-
2016	Poultry dressing plants	115.2	110.3	117.1	112.7	-	104.8	100.4	106.3	101.6	-
202	Dairy products	177.5	175.2	175.5	173.2	-	96.2	93.8	94.6	93.3	-
2022	Cheese, natural and processed	33.4	32.2	34.0	32.8	-	25.7	24.8	26.1	25.3	-
2026	Fluid milk	107.9	108.5	106.6	105.7	-	47.8	47.7	47.1	46.8	-
203	Preserved fruits and vegetables	232.0	205.9	203.8	190.1	-	190.6	164.3	164.2	151.9	-
2032	Canned specialties	24.1	25.1	24.6	23.9	-	17.6	18.1	18.1	17.4	-
2033	Canned fruits and vegetables	96.7	72.6	74.5	65.8	-	81.0	57.9	59.9	51.7	-
2037	Frozen fruits and vegetables	41.2	39.2	36.5	34.7	-	35.5	33.4	31.1	29.5	-
204	Grain mill products	141.9	143.8	142.6	141.9	-	97.3	100.1	98.0	97.7	-
2041	Flour and other grain mill products	25.1	25.3	25.7	25.4	-	15.2	15.8	15.6	15.7	-
2048	Prepared feeds, nec	58.1	59.0	58.1	58.3	-	37.8	39.3	37.8	38.0	-
205	Bakery products	230.8	230.6	229.8	226.4	-	134.6	134.3	134.2	131.6	-
2051	Bread, cake, and related products	186.7	186.1	186.3	183.3	-	100.2	99.7	100.1	97.5	-
2052	Cookies and crackers	44.0	44.5	43.5	43.1	-	34.4	34.6	34.1	34.1	-
206	Sugar and confectionery products	101.6	108.8	108.2	105.1	-	75.8	82.6	81.7	79.4	-
2061-3	Cane and beet sugar	26.1	29.4	30.0	28.6	-	18.5	21.4	22.2	21.1	-
2065	Confectionery products	55.0	58.4	57.3	55.7	-	43.2	46.3	45.5	44.3	-
207	Fats and oils	43.2	44.6	43.5	43.2	-	31.7	32.8	32.4	32.1	-
208	Beverages	235.7	231.2	235.1	230.7	-	105.5	105.7	103.7	100.7	-
2082	Malt beverages	52.4	51.5	52.8	51.3	-	34.4	35.0	34.0	32.8	-
2086	Bottled and canned soft drinks	142.5	138.1	140.9	139.0	-	48.0	46.8	46.4	45.3	-
209	Misc. foods and kindred products	166.1	162.5	165.3	159.1	-	123.8	120.2	123.5	117.4	-
21	TOBACCO MANUFACTURES	69.0	69.1	74.7	71.9	69.8	53.8	54.2	58.2	55.9	53.5
211	Cigarettes	44.9	44.5	46.4	46.2	-	34.1	34.3	34.6	34.8	-
22	TEXTILE MILL PRODUCTS	863.8	884.0	858.3	853.2	856.9	751.3	772.3	745.5	740.1	744.2
221	Weaving mills, cotton	151.1	154.0	149.3	148.3	-	135.7	138.6	133.9	132.7	-
222	Weaving mills, synthetics	117.7	121.3	118.0	118.2	-	105.6	109.1	106.0	106.0	-
223	Weaving and finishing mills, wool	18.6	19.8	18.3	18.4	-	15.2	16.3	14.9	15.1	-
224	Narrow fabric mills	24.3	25.4	24.6	24.8	-	21.3	22.6	21.4	21.8	-
226	Knitting mills	229.2	226.0	226.9	224.0	-	199.0	196.5	196.0	192.9	-
2251	Women's hosiery, except socks	30.9	31.6	29.9	29.7	-	27.9	28.8	26.8	26.7	-
2252	Hosiery, nec	33.2	33.1	33.3	33.3	-	30.3	30.2	30.3	30.1	-
2253	Knit outerwear mills	75.7	70.6	75.7	73.7	-	64.9	60.1	64.5	62.4	-
2254	Knit underwear mills	32.0	31.8	32.4	32.3	-	27.7	27.7	28.2	27.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	TEXTILE MILL PRODUCTS—Continued										
2257	Circular knit fabric mills	32.1	33.2	31.0	30.4	-	27.1	28.2	26.0	25.6	-
226	Textile finishing, except wool	74.2	77.6	72.8	72.3	-	62.3	65.6	61.2	60.7	-
2261	Finishing plants, cotton	29.2	30.6	28.2	27.9	-	24.3	25.6	23.5	23.3	-
2262	Finishing plants, synthetics	29.5	30.7	29.7	29.5	-	24.8	26.0	25.1	24.8	-
227	Floor covering mills	53.7	57.6	52.3	51.8	-	43.7	47.2	42.4	41.8	-
228	Yarn and thread mills	130.8	134.7	131.3	131.3	-	118.1	122.2	118.5	118.5	-
2281	Yarn mills, except wool	87.4	89.1	88.0	87.9	-	80.4	82.5	80.8	80.8	-
2282	Throwing and winding mills	24.1	25.4	24.1	24.4	-	21.1	22.2	21.2	21.4	-
229	Miscellaneous textile goods	64.2	67.6	64.8	64.1	-	50.6	54.2	51.2	50.6	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,296.5	1,282.0	1,281.7	1,266.9	1,282.7	1,107.8	1,094.1	1,094.2	1,080.4	1,096.3
231	Men's and boys' suits and coats	78.7	78.0	79.0	78.0	-	68.8	67.3	69.9	68.9	-
232	Men's and boys' furnishings	372.1	367.9	364.1	358.6	-	318.5	315.1	311.8	307.4	-
2321	Men's and boys' shirts and nightwear	102.5	102.1	100.5	99.5	-	88.7	88.7	86.4	84.9	-
2327	Men's and boys' separate trousers	79.3	79.1	78.8	78.7	-	69.2	68.5	68.9	69.0	-
2328	Men's and boys' work clothing	107.5	106.8	105.7	103.2	-	90.0	89.7	89.3	87.3	-
233	Women's and misses' outerwear	433.8	422.9	426.5	425.2	-	374.3	364.7	366.5	365.4	-
2331	Women's and misses' blouses and waists	61.9	60.7	62.3	62.1	-	53.8	52.6	54.4	54.4	-
2336	Women's and misses' dresses	154.6	155.4	148.4	148.9	-	137.1	138.2	131.2	131.5	-
2337	Women's and misses' suits and coats	63.1	55.8	63.1	59.0	-	54.8	47.7	54.0	50.5	-
2339	Women's and misses' outerwear, nec	154.1	151.0	152.7	155.2	-	128.6	126.2	126.9	129.0	-
234	Women's and children's undergarments	89.6	90.4	87.3	87.1	-	76.2	76.7	74.4	74.2	-
2341	Women's and children's underwear	72.0	72.0	69.8	69.7	-	62.4	62.2	60.7	60.6	-
2342	Brassieres and allied garments	17.6	18.4	17.5	17.4	-	13.8	14.5	13.7	13.6	-
236	Children's outerwear	63.2	64.1	61.1	61.7	-	53.9	55.0	51.5	52.2	-
2361	Children's dresses and blouses	25.0	26.0	25.0	24.9	-	22.5	23.3	22.2	22.3	-
238	Misc. apparel and accessories	56.8	54.8	56.2	54.2	-	48.5	47.0	47.8	45.9	-
239	Misc. fabricated textile products	182.2	184.5	187.3	182.1	-	150.2	151.6	154.9	149.1	-
2391	Curtains and draperies	28.3	29.6	28.2	27.7	-	23.9	25.4	23.6	23.2	-
2392	House furnishings, nec	52.2	53.8	52.7	50.2	-	43.0	44.4	43.5	41.0	-
2396	Automotive and apparel trimmings	32.1	30.6	37.2	35.6	-	26.7	24.7	31.8	29.6	-
26	PAPER AND ALLIED PRODUCTS	693.9	703.5	691.7	687.5	687.5	523.4	532.5	521.6	517.7	518.5
261, 26	Paper and pulp mills	205.6	206.6	207.5	205.3	-	153.9	155.4	156.3	154.5	-
262	Paper mills, except building paper	177.5	177.3	179.1	177.4	-	131.5	131.9	133.5	132.1	-
263	Paperboard mills	64.3	65.4	63.9	63.6	-	50.4	51.2	49.8	49.8	-
264	Misc. converted paper products	215.7	217.5	212.9	212.3	-	159.6	161.1	156.7	155.9	-
2641	Paper coating and glazing	57.2	58.5	57.3	56.7	-	37.0	38.3	37.0	36.5	-
2642	Envelopes	25.0	24.7	25.1	25.3	-	19.7	19.5	19.6	19.8	-
2643	Bags, except textile bags	49.4	51.2	49.6	49.7	-	38.4	40.0	38.9	39.0	-
265	Paperboard containers and boxes	208.3	214.0	207.4	206.3	-	159.5	164.8	158.8	157.5	-
2651	Folding paperboard boxes	44.4	44.6	44.8	44.5	-	35.1	35.4	35.4	34.9	-
2653	Corrugated and solid fiber boxes	106.5	110.6	105.7	105.7	-	78.1	81.8	77.5	77.4	-
2654	Sanitary food containers	26.4	26.9	26.1	26.2	-	21.6	22.1	21.4	21.4	-
27	PRINTING AND PUBLISHING	1,271.7	1,266.3	1,291.6	1,282.6	1,289.0	714.2	715.3	727.0	717.6	724.3
271	Newspapers	432.1	430.9	437.6	434.0	-	168.9	171.2	171.0	168.4	-
272	Periodicals	83.2	83.6	84.3	86.1	-	15.2	13.5	15.9	15.7	-
273	Books	105.2	106.8	106.4	106.0	-	55.0	57.1	56.1	56.4	-
2731	Book publishing	72.2	72.7	72.3	72.5	-	27.5	28.3	27.7	28.3	-
2732	Book printing	33.0	34.1	34.1	33.5	-	27.5	28.8	28.4	28.1	-
274	Miscellaneous publishing	47.2	46.8	48.9	49.0	-	26.1	27.9	26.4	26.3	-
275	Commercial printing	424.6	417.4	435.1	431.7	-	315.6	310.9	324.4	320.9	-
2751	Commercial printing, letterpress	169.2	166.8	173.2	171.6	-	125.5	123.6	129.3	128.0	-
2752	Commercial printing, lithographic	231.7	227.0	237.6	235.6	-	170.6	167.7	175.1	172.9	-
276	Manifold business forms	47.1	48.0	46.8	46.5	-	33.3	34.1	33.2	33.1	-
278	Blankbooks and bookbinding	63.7	64.6	63.4	61.9	-	52.2	53.6	51.8	50.5	-
279	Printing trade services	45.1	44.8	45.5	45.7	-	33.5	33.4	33.7	34.0	-
28	CHEMICALS AND ALLIED PRODUCTS	1,112.6	1,113.1	1,107.6	1,106.5	1,108.4	626.6	634.0	621.3	621.9	629.3
281	Industrial inorganic chemicals	166.1	166.4	165.7	166.1	-	89.2	90.3	87.7	88.8	-
2819	Industrial inorganic chemicals, nec	108.8	108.9	108.4	109.1	-	59.7	60.3	58.3	58.9	-
282	Plastics materials and synthetics	203.8	210.0	200.6	199.0	-	134.9	141.5	132.2	130.4	-
2821	Plastics materials and resins	84.8	85.8	83.8	82.8	-	50.3	52.1	48.9	47.7	-
2824	Organic fibers, noncellulosic	92.1	95.5	90.9	89.9	-	65.3	68.7	64.3	63.4	-
283	Drugs	199.2	196.2	200.1	200.6	-	98.4	99.3	98.5	98.6	-
2834	Pharmaceutical preparations	158.7	156.5	159.6	160.2	-	76.1	76.7	76.7	77.4	-
284	Soap, cleaners, and toilet goods	137.9	136.4	139.2	139.0	-	84.1	82.1	85.6	86.2	-
2841	Soap and other detergents	40.7	40.5	41.1	40.7	-	26.1	26.0	26.7	26.9	-
2844	Toilet preparations	57.7	56.6	58.9	59.1	-	36.4	34.4	37.9	38.4	-
2842, 3	Polishing, sanitation, and finishing preparations	39.5	39.3	39.2	39.2	-	21.5	21.7	21.0	20.9	-
285	Paints and allied products	66.6	67.0	65.4	65.4	-	33.6	33.8	32.4	32.3	-
286	Industrial organic chemicals	172.6	172.5	170.2	170.4	-	87.6	89.5	86.0	87.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	36.9	37.3	35.7	36.1	-	22.6	23.3	21.3	21.6	-
2861,9	Gum, wood, and industrial organic chemicals, nec	135.7	135.2	134.5	134.3	-	65.0	66.2	64.7	65.5	-
287	Agricultural chemicals	71.8	71.0	70.2	70.2	-	45.2	44.8	43.5	43.3	-
289	Miscellaneous chemical products	94.7	93.6	96.2	95.8	-	53.7	52.7	55.4	55.2	-
29	PETROLEUM AND COAL PRODUCTS	197.3	208.6	207.8	207.8	203.1	124.2	133.9	131.8	132.5	130.1
291	Petroleum refining	154.2	167.1	167.4	168.9	-	93.1	104.1	102.9	105.0	-
295	Paving and roofing materials	30.5	29.9	27.9	26.4	-	23.2	22.8	20.9	19.5	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	710.7	750.3	710.3	708.5	709.3	547.5	583.7	549.2	547.5	550.3
301	Tires and inner tubes	102.7	112.5	101.1	101.4	-	72.0	80.4	71.9	72.1	-
302	Rubber and plastics footwear	22.5	22.5	22.0	21.0	-	19.9	19.6	19.4	18.5	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting	21.4	23.5	21.3	20.9	-	14.9	16.7	14.7	14.4	-
306	Fabricated rubber products, nec	106.5	112.8	106.7	106.5	-	82.2	87.6	82.7	82.6	-
307	Miscellaneous plastics products	457.6	479.0	459.2	458.7	-	358.4	379.4	360.5	359.9	-
31	LEATHER AND LEATHER PRODUCTS	240.1	240.3	238.8	236.7	238.9	203.1	202.9	201.6	199.8	201.9
311	Leather tanning and finishing	18.8	18.6	19.4	19.3	-	15.7	15.5	16.1	16.1	-
314	Footwear, except rubber	151.5	149.5	150.5	151.5	-	129.7	127.2	128.8	129.8	-
3143	Men's footwear, except athletic	57.7	56.7	60.0	60.1	-	49.6	48.8	51.2	51.5	-
3144	Women's footwear, except athletic	60.1	62.8	56.5	57.8	-	51.1	53.0	48.3	49.4	-
316	Luggage	14.6	15.0	13.8	12.6	-	11.0	11.7	10.0	9.0	-
317	Handbags and personal leather goods	30.8	31.5	29.8	28.6	-	26.3	26.8	25.3	24.1	-
-	TRANSPORTATION AND PUBLIC UTILITIES	5,156	5,136	5,163	5,081	5,080	4,302	4,283	4,307	4,219	4,214
40	RAILROAD TRANSPORTATION	534.0	536.5	519.2	509.7	-	-	-	-	-	-
4011	Class I railroads ²	482.0	484.2	468.7	460.3	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	272.3	278.8	282.7	282.6	-	251.0	256.8	261.9	262.2	-
411	Local and suburban transportation	81.8	79.8	84.2	84.6	-	74.8	72.4	77.4	77.9	-
412	Taxicabs	58.5	61.5	58.3	58.4	-	-	-	-	-	-
413	Intercity highway transportation	40.8	38.5	41.3	41.3	-	37.5	35.5	37.6	37.7	-
415	School buses	76.7	85.6	85.1	85.0	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,284.5	1,298.3	1,291.1	1,227.1	-	1,125.6	1,138.6	1,133.1	1,068.9	-
421,3	Trucking and trucking terminals	1,194.3	1,202.5	1,202.3	1,140.5	-	1,048.8	1,055.9	1,057.7	996.1	-
422	Public warehousing	90.2	95.8	88.8	86.6	-	76.8	82.7	75.4	72.8	-
44	WATER TRANSPORTATION	211.3	211.0	204.2	200.8	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	451.4	453.4	446.6	445.8	-	-	-	-	-	-
451,2	Air transportation	402.5	405.4	397.6	396.4	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	19.8	19.0	19.6	19.6	-	14.1	13.5	13.8	13.8	-
47	TRANSPORTATION SERVICES	193.1	193.1	190.7	189.7	-	-	-	-	-	-
48	COMMUNICATION	1,355.7	1,333.7	1,364.5	1,362.6	-	1,011.1	995.6	1,016.8	1,014.7	-
481	Telephone communication	1,078.3	1,065.4	1,079.8	1,077.3	-	783.7	774.9	783.8	782.0	-
483	Radio and television broadcasting	202.2	196.4	206.9	205.7	-	162.2	158.2	166.3	164.9	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	833.6	812.2	844.2	843.3	-	681.8	665.0	689.0	686.0	-
491	Electric services	393.2	381.2	402.3	402.7	-	317.7	307.4	326.0	326.2	-
492	Gas production and distribution	169.9	164.2	171.9	171.6	-	138.9	133.6	140.1	139.9	-
493	Combination utility services	196.8	195.7	196.4	195.8	-	161.5	162.8	159.5	157.3	-
495	Sanitary services	50.7	48.7	51.1	50.5	-	44.7	42.7	44.9	44.1	-
-	WHOLESALE AND RETAIL TRADE	20,573	20,325	21,313	20,575	20,403	18,048	17,838	18,746	18,015	17,821
50,51	WHOLESALE TRADE	5,281	5,241	5,318	5,273	5,280	4,317	4,295	4,334	4,284	4,290
50	WHOLESALE TRADE - DURABLE GOODS	3,130	3,128	3,142	3,126	-	2,558	2,565	2,558	2,539	-
501	Motor vehicles and automotive equipment	427.5	441.1	424.6	420.4	-	345.4	358.8	342.3	338.1	-
502	Furniture and home furnishing	116.3	114.6	119.2	117.8	-	95.0	93.8	97.5	96.1	-
503	Lumber and construction materials	191.3	194.0	194.2	189.0	-	157.5	160.9	159.9	154.5	-
504	Sporting goods, toys, and hobby goods	72.9	71.8	75.4	74.8	-	59.6	59.2	60.7	59.7	-
505	Metals and minerals, except petroleum	152.7	154.6	152.9	152.5	-	123.3	125.7	122.5	122.3	-
506	Electrical goods	409.7	410.7	409.3	407.9	-	333.4	335.9	332.1	330.5	-
507	Hardware, plumbing, and heating equipment	244.7	246.9	245.2	244.4	-	201.2	203.4	201.2	200.3	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,304.3	1,283.0	1,309.3	1,309.8	-	1,063.6	1,047.1	1,061.9	1,060.3	-
509	Miscellaneous durable goods	210.6	211.5	211.8	209.7	-	178.6	179.9	179.9	177.6	-
51	WHOLESALE TRADE-NONDURABLE GOODS ..	2,151	2,113	2,176	2,147	-	1,759	1,730	1,776	1,745	-
511	Paper and paper products	148.6	147.4	150.7	149.8	-	121.2	119.5	122.4	121.8	-
512	Drugs, proprietaries, and sundries	152.8	150.9	156.7	156.1	-	129.5	129.0	132.6	131.6	-
513	Apparel, piece goods, and notions	177.6	173.0	180.0	177.1	-	140.9	137.4	142.6	139.1	-
514	Groceries and related products	654.4	632.7	664.2	649.8	-	564.4	544.1	570.9	556.2	-
516	Chemicals and allied products	126.7	124.6	128.3	128.6	-	92.4	91.5	92.4	93.4	-
517	Petroleum and petroleum products	233.3	229.3	236.8	237.2	-	170.2	167.0	172.6	172.8	-
518	Beer, wine, and distilled beverages	136.7	133.9	139.8	136.8	-	114.9	113.4	117.0	113.8	-
519	Miscellaneous nondurable goods	387.1	380.5	385.0	380.9	-	315.6	311.5	313.8	309.7	-
52-59	RETAIL TRADE	15,292	15,084	15,995	15,302	15,123	13,731	13,543	14,412	13,731	13,531
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	621.9	614.1	626.3	604.3	-	526.1	519.4	530.2	507.4	-
521	Lumber and other building materials	329.8	332.4	329.2	320.3	-	279.1	281.6	278.1	269.4	-
525	Hardware stores	154.4	152.5	159.6	154.6	-	132.4	131.4	137.1	131.6	-
53	GENERAL MERCHANDISE STORES	2,216.3	2,336.6	2,510.6	2,269.1	-	2,060.8	2,177.5	2,350.7	2,112.4	-
531	Department stores	1,805.4	1,921.0	2,053.3	1,863.7	-	1,691.6	1,802.5	1,935.0	1,749.2	-
533	Variety stores	269.8	277.1	296.4	263.0	-	248.5	255.7	274.2	240.9	-
539	Misc. general merchandise stores	141.1	138.5	160.9	142.4	-	120.7	119.3	140.5	122.3	-
54	FOOD STORES	2,393.5	2,346.6	2,478.2	2,440.2	-	2,212.0	2,164.8	2,298.0	2,261.2	-
541	Grocery stores	2,099.2	2,057.9	2,166.0	2,146.7	-	1,944.3	1,901.9	2,013.0	1,994.7	-
542	Meat markets and freezer provisioners	52.7	52.8	54.3	54.4	-	-	-	-	-	-
546	Retail bakeries	128.0	126.5	129.3	126.4	-	117.4	115.5	118.6	115.6	-
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,744.4	1,773.2	1,732.9	1,724.7	-	1,479.0	1,504.6	1,466.9	1,461.0	-
551.2	New and used car dealers	811.0	852.2	792.3	788.5	-	666.7	703.9	650.1	646.9	-
553	Auto and home supply stores	269.3	270.1	276.3	272.9	-	233.4	234.7	239.4	236.1	-
554	Gasoline service stations	570.9	559.4	575.3	575.8	-	497.2	489.2	500.8	502.6	-
56	APPAREL AND ACCESSORY STORES	964.4	971.9	1,084.7	985.2	-	827.4	838.2	943.6	844.1	-
561	Men's and boys' clothing and furnishings	139.2	145.9	158.9	142.7	-	118.0	124.2	137.5	121.2	-
562	Women's ready-to-wear stores	359.1	360.6	402.9	363.3	-	311.2	314.1	352.9	313.7	-
565	Family clothing stores	186.1	184.9	219.8	194.8	-	162.3	162.4	194.9	170.6	-
566	Shoe stores	179.8	180.3	190.8	179.2	-	149.4	150.5	160.4	148.2	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	603.4	616.0	619.5	601.0	-	500.1	510.1	515.6	498.6	-
571	Furniture and home furnishings	372.6	377.7	379.2	369.0	-	310.5	315.7	316.4	306.7	-
572	Household appliance stores	82.6	84.4	85.6	82.1	-	70.9	72.5	73.0	70.2	-
573	Radio, television, and music stores	148.2	153.9	154.7	149.9	-	118.7	121.9	126.2	121.7	-
58	EATING AND DRINKING PLACES	4,818.2	4,502.3	4,855.5	4,706.1	-	4,433.5	4,134.7	4,472.8	4,326.9	-
59	MISCELLANEOUS RETAIL	1,929.8	1,923.6	2,087.7	1,971.5	-	1,692.5	1,694.1	1,834.5	1,719.7	-
591	Drug stores and proprietary stores	507.5	513.5	518.8	506.1	-	460.8	469.2	470.3	457.3	-
592	Liquor stores	132.4	133.7	139.0	130.7	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	599.7	584.3	691.7	635.2	-	512.7	499.2	597.3	542.2	-
596	Nonstore retailers	273.9	281.2	305.4	280.7	-	255.1	265.1	282.5	259.4	-
598	Fuel and ice dealers	107.0	112.8	111.5	113.7	-	89.9	95.6	94.3	96.2	-
599	Retail stores, nec.	250.3	240.0	262.7	246.1	-	210.4	201.0	220.4	204.3	-
-	FINANCE, INSURANCE, AND REAL										
	ESTATE ²	5,162	5,052	5,229	5,223	5,233	3,905	3,807	3,945	3,930	3,935
60	BANKING	1,547.6	1,525.6	1,569.3	1,571.1	-	1,192.4	1,177.1	1,206.4	1,204.1	-
602	Commercial and stock savings banks	1,411.9	1,393.6	1,430.3	1,431.7	-	1,081.4	1,070.0	1,092.8	1,090.9	-
61	CREDIT AGENCIES OTHER THAN BANKS	561.4	564.7	569.4	569.6	-	424.5	428.8	429.5	430.7	-
612	Savings and loan associations	243.5	240.4	254.5	256.7	-	185.7	185.2	194.0	195.4	-
614	Personal credit institutions	209.8	215.4	207.5	206.0	-	157.8	163.2	154.7	154.8	-
62	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	213.4	208.1	222.0	223.5	-	-	-	-	-	-
621	Security brokers and dealers	169.6	166.2	176.9	177.9	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,240.4	1,223.4	1,253.5	1,249.6	-	865.2	849.0	871.2	865.6	-
631	Life insurance	539.8	530.6	546.1	543.2	-	328.3	316.7	334.7	331.8	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	140.7	138.1	142.5	142.6	-	112.6	110.4	113.9	114.0	-
633	Fire, marine, and casualty insurance	490.5	481.8	494.6	494.0	-	369.4	363.5	367.1	364.7	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	454.1	444.7	462.1	462.5	-	-	-	-	-	-
65	REAL ESTATE	1,000.9	947.2	1,004.6	998.1	-	-	-	-	-	-
651	Real estate operators and lessors	468.2	447.4	472.8	470.1	-	-	-	-	-	-
653	Real estate agents and managers	376.9	355.5	380.8	381.6	-	-	-	-	-	-
655	Subdividers and developers	133.8	121.0	128.7	124.7	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC	23.3	23.4	23.4	23.6	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES	120.7	115.2	124.2	125.4	-	-	-	-	-	-
-	SERVICES	17,741	17,135	17,978	17,790	17,928	15,782	15,200	15,976	15,791	15,909
70	HOTELS AND OTHER LODGING PLACES	1,071.2	972.8	994.8	971.9	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	1,027.7	938.6	962.9	941.1	-	944.4	859.8	881.2	858.8	-
72	PERSONAL SERVICES	930.6	943.3	930.8	930.3	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	354.7	358.8	355.9	353.0	-	316.9	319.9	318.3	315.1	-
723	Beauty shops	294.5	295.2	298.5	293.4	-	273.8	273.1	275.8	272.5	-
726	Funeral service and crematories	70.7	69.9	73.0	73.2	-	-	-	-	-	-
73	BUSINESS SERVICES	3,002.4	2,940.0	3,111.9	3,080.3	-	2,617.8	2,559.8	2,714.0	2,686.1	-
731	Advertising	148.5	148.4	149.0	148.6	-	112.5	111.6	113.3	113.4	-
732	Credit reporting and collection	71.9	73.6	70.6	69.7	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	122.6	119.0	128.9	125.6	-	-	-	-	-	-
734	Services to buildings	505.9	506.1	506.4	504.4	-	458.7	459.0	457.4	456.1	-
736	Personnel supply services	517.9	505.8	554.7	539.3	-	-	-	-	-	-
737	Computer and data processing services	292.8	281.4	307.1	311.3	-	243.9	233.3	256.5	259.9	-
75	AUTO REPAIR, SERVICES, AND GARAGES	583.3	580.5	581.3	582.6	-	497.9	496.3	495.1	495.5	-
753	Automotive repair shops	356.9	354.5	354.8	355.2	-	303.4	301.5	301.9	301.7	-
76	MISCELLANEOUS REPAIR SERVICES	305.3	300.9	314.1	311.4	-	257.9	259.6	261.7	259.2	-
78	MOTION PICTURES	213.5	219.7	205.7	202.1	-	188.1	193.1	180.1	177.5	-
781	Motion picture production and services	76.0	93.7	77.6	75.9	-	63.3	79.5	64.4	62.9	-
783	Motion picture theaters	126.9	115.8	117.5	115.7	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	734.8	611.3	677.0	642.9	-	665.9	544.8	607.1	574.5	-
80	HEALTH SERVICES	5,228.6	5,099.5	5,348.7	5,364.4	-	4,667.3	4,541.7	4,777.3	4,790.8	-
801	Offices of physicians	756.0	738.9	772.5	775.7	-	619.8	603.3	633.6	636.4	-
802	Offices of dentists	341.9	337.2	352.0	348.5	-	297.9	291.5	306.8	305.5	-
805	Nursing and personal care facilities	995.3	971.7	1,016.1	1,020.6	-	896.0	873.8	917.2	920.8	-
806	Hospitals	2,721.5	2,652.8	2,778.6	2,790.7	-	2,496.2	2,429.0	2,547.4	2,556.5	-
81	LEGAL SERVICES	481.4	462.1	498.4	498.0	-	412.7	395.3	425.8	425.2	-
82	EDUCATIONAL SERVICES	1,117.1	1,094.3	1,193.9	1,116.6	-	-	-	-	-	-
821	Elementary and secondary schools	266.6	267.4	278.3	273.7	-	-	-	-	-	-
822	Colleges and universities	729.0	707.2	790.2	718.6	-	-	-	-	-	-
83	SOCIAL SERVICES	1,148.6	1,093.1	1,177.6	1,178.4	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,570.9	1,531.9	1,598.1	1,573.4	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	1,007.5	979.7	1,022.3	1,030.7	-	840.2	813.9	851.4	858.6	-
891	Engineering and architectural services	556.7	539.2	567.6	566.6	-	473.0	456.8	481.9	479.3	-
893	Accounting, auditing, and bookkeeping	315.0	308.8	319.0	328.8	-	254.2	247.9	256.6	266.5	-
-	GOVERNMENT	16,170	16,029	16,352	16,126	16,320	-	-	-	-	-
-	FEDERAL GOVERNMENT	2,866	2,763	2,782	2,758	2,734	-	-	-	-	-
-	Executive, by agency ⁴	2,811.6	2,709.1	2,728.5	2,702.3	-	-	-	-	-	-
-	Department of Defense	893.1	885.1	893.6	892.9	-	-	-	-	-	-
-	Postal Service	66.1	655.9	672.5	659.9	-	-	-	-	-	-
-	Other executive agencies	1,257.4	1,168.1	1,162.4	1,149.5	-	-	-	-	-	-
-	Legislative	39.9	39.5	38.9	40.8	-	-	-	-	-	-
-	Judicial	14.6	14.1	14.9	15.0	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	FEDERAL GOVERNMENT—Continued										
	Federal Government, by industry										
	Manufacturing activities	122.4	124.0	122.0	122.6	-	-	-	-	-	-
3731	Shipbuilding and repairing	72.4	72.8	73.2	73.6	-	-	-	-	-	-
	Transportation and public utilities, except										
	Postal Service	45.1	44.0	45.2	45.3	-	-	-	-	-	-
	Services	389.8	350.0	390.9	389.3	-	-	-	-	-	-
806	Federal government hospitals	233.2	228.5	232.2	234.1	-	-	-	-	-	-
	STATE AND LOCAL GOVERNMENT	13,304	13,266	13,570	13,368	13,586	-	-	-	-	-
	State government	3,575.1	3,541.3	3,643.1	3,545.1	-	-	-	-	-	-
806	State government hospitals	548.7	546.0	551.4	550.1	-	-	-	-	-	-
82	State education	1,390.0	1,384.0	1,467.3	1,372.5	-	-	-	-	-	-
	General administration including executive, legislative, and judicial functions	1,012.1	993.9	1,006.8	1,007.0	-	-	-	-	-	-
	Local government	9,728.9	9,724.5	9,926.6	9,822.7	-	-	-	-	-	-
	Transportation and public utilities	617.4	602.3	630.4	630.2	-	-	-	-	-	-
806	Local government hospitals	587.1	572.7	596.9	596.2	-	-	-	-	-	-
82	Local education	5,101.1	5,262.9	5,338.7	5,244.4	-	-	-	-	-	-
	General administration including executive, legislative, and judicial functions	3,026.0	2,915.8	2,980.1	2,967.9	-	-	-	-	-	-

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

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

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

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

- Data not available.
p = preliminary.

NOTE: Data from April 1979 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustments" in the Explanatory notes of this publication.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	AVG. 1980	Dec. 1979	Oct. 1980	Nov. 1980	Dec. 1980
-	TOTAL	38,241	38,415	38,742	39,093	39,336
-	PRIVATE SECTOR	30,550	30,649	30,909	31,152	31,421
-	MINING	104	95	107	109	111
10	METAL MINING	8.8	8.9	7.8	8.9	9.4
11, 12	COAL MINING	11.2	9.8	11.6	11.7	11.9
13	OIL AND GAS EXTRACTION	74.4	67.0	78.1	79.1	80.3
131, 2	Crude petroleum, natural gas, and natural gas liquids.....	47.9	42.9	50.5	50.9	51.8
138	Oil and gas field services.....	26.5	24.1	27.6	28.2	28.5
14	NONMETALLIC MINERALS, EXCEPT FUELS	9.2	9.1	9.2	9.3	9.0
142	Crushed and broken stone.....	2.6	2.6	2.5	2.5	2.3
144	Sand and gravel.....	3.1	3.0	3.1	3.1	3.0
-	CONSTRUCTION	384	371	394	396	395
15	GENERAL BUILDING CONTRACTORS	134.1	133.9	136.7	138.1	138.6
152	Residential building construction.....	76.1	75.5	77.7	78.6	79.1
153	Operative builders.....	15.7	17.7	15.6	15.7	15.7
154	Nonresidential building construction.....	42.2	40.7	43.4	43.8	43.8
16	HEAVY CONSTRUCTION CONTRACTORS	58.0	54.9	60.9	60.5	57.6
161	Highway and street construction.....	17.0	15.2	18.4	17.1	15.5
162	Heavy construction, except highway.....	41.0	39.7	42.5	43.4	42.1
17	SPECIAL TRADE CONTRACTORS	192.1	182.0	196.8	197.8	199.1
171	Plumbing, heating, air conditioning.....	54.0	51.9	54.7	55.2	56.4
172	Painting, paper hanging, decorating.....	12.5	12.0	12.5	12.8	12.9
173	Electrical work.....	35.8	33.1	37.6	37.8	37.8
174	Masonry, stonework, and plastering.....	22.1	20.3	22.6	22.6	22.9
175	Carpentering and flooring.....	14.3	13.9	14.9	14.8	14.7
176	Roofing and sheet metal work.....	13.3	12.7	13.6	13.7	13.5
-	MANUFACTURING	6,368	6,510	6,386	6,393	6,359
24, 25, 32-38	DURABLE GOODS	3,026	3,140	3,010	3,033	3,032
20-23, 26-31	NONDURABLE GOODS	3,343	3,370	3,376	3,360	3,327
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	102.6	111.5	102.2	102.1	102.0
241	Logging camps and logging contractors.....	5.1	5.1	5.6	4.8	4.6
242	Sawmills and planing mills.....	20.6	22.8	19.6	19.7	19.9
2421	Sawmills and planing mills, general.....	14.7	15.9	14.3	14.3	14.4
243	Millwork, plywood, and structural members.....	40.5	44.8	40.1	40.7	40.5
244	Wooden containers.....	7.3	7.4	7.4	7.3	7.5
245	Wood buildings and mobile homes.....	8.6	10.1	8.5	8.5	8.3
249	Miscellaneous wood products.....	20.6	21.3	21.0	21.1	21.2
25	FURNITURE AND FIXTURES	140.6	149.8	140.1	142.0	143.7
251	Household furniture.....	101.8	110.2	101.3	102.8	104.4
2511	Wood household furniture.....	44.3	47.2	44.9	45.3	45.9
2512	Upholstered household furniture.....	33.8	36.7	33.6	34.0	34.4
2515	Mattresses and bedsprings.....	7.8	8.6	7.8	7.6	7.5
252	Office furniture.....	12.4	12.3	12.1	12.5	12.7
253	Public building and related furniture.....	5.3	5.6	5.1	5.2	5.2
254	Partitions and fixtures.....	10.4	10.8	10.6	10.5	10.3
259	Miscellaneous furniture and fixtures.....	10.8	10.9	11.0	11.0	11.1
32	STONE, CLAY, AND GLASS PRODUCTS	128.0	134.5	127.0	127.5	126.2
322	Glass and glassware, pressed or blown.....	42.5	44.5	42.2	42.0	41.1
3221	Glass containers.....	23.5	24.4	23.5	23.1	22.2
3229	Pressed and blown glass, nec.....	19.0	20.1	18.7	18.9	18.9
323	Products of purchased glass.....	13.3	13.9	13.3	13.2	13.2
324	Cement, hydraulic.....	1.7	1.7	1.7	1.7	1.7
325	Structural clay products.....	6.5	7.1	6.3	6.4	6.4
326	Pottery and related products.....	15.3	16.5	15.1	15.2	14.8
327	Concrete, gypsum, and plaster products.....	15.1	15.5	15.1	15.1	14.8
329	Misc. nonmetallic mineral products.....	31.0	32.7	30.4	31.1	31.4
33	PRIMARY METAL INDUSTRIES	124.1	132.7	121.5	123.4	124.2
331	Blast furnace and basic steel products.....	39.2	42.4	37.8	38.4	39.0
3312	Blast furnaces and steel mills.....	29.5	32.2	28.3	28.6	29.0
332	Iron and steel foundries.....	18.4	18.8	18.2	18.4	18.2

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	AVG. 1980	Dec. 1979	Oct. 1980	Nov. 1980	Dec. 1980
PRIMARY METAL INDUSTRIES—Continued						
3321	Gray iron foundries	8.2	8.3	8.1	8.5	8.5
3322	Malleable iron foundries	1.1	1.3	1.0	1.0	1.0
3325	Steel foundries, nec	5.2	5.3	5.0	4.9	4.8
333	Primary nonferrous metals	4.9	4.9	4.6	4.8	4.8
3334	Primary aluminum	2.1	2.0	2.1	2.1	2.1
335	Nonferrous rolling and drawing	41.5	44.3	41.6	41.9	42.2
3351	Copper rolling and drawing	3.3	3.7	3.2	3.1	3.1
3353	Aluminum sheet, plate, and foil	4.4	4.4	4.2	4.2	4.2
3357	Nonferrous wire drawing and insulating	25.4	27.1	26.2	26.4	26.7
336	Nonferrous foundries	14.5	16.8	13.7	14.2	14.3
3361	Aluminum foundries	7.5	8.7	6.9	7.1	7.2
FABRICATED METAL PRODUCTS						
34		339.6	363.1	336.4	339.2	338.9
341	Metal cans and shipping containers	13.4	14.2	12.9	12.7	12.6
3411	Metal cans	11.5	12.2	11.0	10.8	10.7
342	Cutlery, hand tools, and hardware	57.2	62.5	56.6	58.0	58.3
3423, 5	Hand and edge tools, and hand saws and blades	16.6	18.0	16.0	16.1	16.4
3429	Hardware, nec	33.7	37.2	33.6	34.8	35.0
343	Plumbing and heating, except electric	16.5	19.9	15.7	15.3	16.1
344	Fabricated structural metal products	73.0	76.6	73.5	73.5	72.9
3441	Fabricated structural metal	7.8	8.2	7.6	7.6	7.7
3442	Metal doors, sash, and trim	21.4	23.7	22.3	22.5	22.0
3443	Fabricated plate work (boiler shops)	18.1	17.6	18.3	18.4	18.4
3444	Sheet metal work	15.9	16.8	15.7	15.4	15.3
345	Screw machine products, bolts, etc.	24.6	26.4	23.5	23.8	23.7
3451	Screw machine products	12.7	13.5	12.3	12.5	12.3
3452	Bolts, nuts, rivets, and washers	11.9	12.9	11.2	11.3	11.4
346	Metal forgings and stampings	52.0	56.1	53.0	53.9	53.2
3462	Iron and steel forgings	4.8	4.8	4.7	4.9	4.9
3465	Automotive stampings	11.3	13.7	12.6	13.1	12.6
3469	Metal stampings, nec	33.7	35.5	33.5	33.7	33.5
347	Metal services, nec	26.0	26.9	26.1	26.1	25.8
3471	Plating and polishing	17.7	18.4	17.9	18.0	17.9
3479	Metal coating and allied services	8.2	8.5	8.2	8.1	7.9
348	Ordinance and accessories, nec	17.5	18.0	17.0	17.1	17.5
349	Misc. fabricated metal products	59.6	62.5	58.1	58.8	58.8
3494	Valves and pipe fittings	22.9	23.9	21.7	22.0	22.1
3496	Misc. fabricated wire products	14.1	14.6	13.8	14.0	14.1
MACHINERY, EXCEPT ELECTRICAL						
35		494.8	489.2	492.6	496.8	501.5
351	Engines and turbines	25.5	25.8	24.5	24.8	24.7
3511	Turbines and turbine generator sets	5.8	5.7	5.8	5.8	5.8
3519	Internal combustion engines, nec	19.7	20.1	18.7	19.0	18.9
352	Farm and garden machinery	27.2	28.4	27.2	27.6	28.0
3523	Farm machinery and equipment	21.5	21.8	21.7	21.6	21.8
353	Construction and related machinery	49.0	42.7	49.2	50.3	50.9
3531	Construction machinery	15.2	10.8	14.6	15.0	15.1
3533	Oil field machinery	13.9	12.4	14.4	14.8	15.0
354	Metalworking machinery	58.4	58.3	57.4	57.6	57.8
3541	Machine tools, metal cutting types	10.4	10.3	10.1	10.3	10.4
3544	Special dies, tools, jigs, and fixtures	15.3	15.2	15.4	15.4	15.3
3545	Machine tool accessories	14.0	13.9	13.6	13.4	13.5
355	Special industry machinery	30.8	30.7	30.5	30.7	31.0
3551	Food products machinery	6.5	6.6	6.1	6.2	6.2
3552	Textile machinery	5.1	5.3	4.9	4.9	5.1
3555	Printing trades machinery	6.8	6.3	7.2	7.2	7.3
356	General industrial machinery	63.1	64.1	61.7	61.9	63.0
3561	Pumps and pumping equipment	11.3	11.7	11.2	11.2	11.2
3562	Ball and roller bearings	14.3	14.5	14.2	13.7	14.4
357	Office and computing machines	155.0	149.8	157.9	159.4	160.8
3573	Electronic computing equipment	127.0	121.3	130.1	131.4	132.9
358	Refrigeration and service machinery	37.6	39.2	37.1	37.5	38.0
3585	Refrigeration and heating equipment	24.7	26.0	24.0	24.9	25.6
359	Misc. machinery, except electrical	48.2	50.2	47.1	47.0	47.3
3599	Machinery, except electrical, nec	38.2	39.1	37.5	37.3	37.5
ELECTRIC AND ELECTRONIC EQUIPMENT						
36		904.1	934.3	897.3	905.1	910.7
361	Electric distributing equipment	43.6	46.6	42.7	43.3	44.1
3612	Transformers	18.2	20.1	17.2	17.2	17.5
3613	Switchgear and switchboard apparatus	25.4	26.5	25.5	26.1	26.6
362	Electrical industrial apparatus	89.3	94.5	85.5	86.6	87.7
3621	Motors and generators	47.6	51.1	45.4	46.5	47.2
3622	Industrial controls	28.4	29.4	27.4	27.4	27.7
363	Household appliances	59.7	64.6	61.4	62.5	62.4
3632	Household refrigerators and freezers	9.6	10.9	9.5	9.9	10.1
3633	Household laundry equipment	4.5	5.2	4.8	4.9	4.7
3634	Electric housewares and fans	28.0	29.7	29.9	29.3	28.6
364	Electric lighting and wiring equipment	97.1	105.0	94.5	95.1	95.6
3641	Electric lamps	22.0	24.4	21.5	21.5	21.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	AVG. 1980	Dec. 1979	Oct. 1980	Nov. 1980	Dec. 1980
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	44.8	47.5	43.2	43.6	43.5
365	Radio and TV receiving equipment	57.5	61.4	58.5	58.8	59.4
3651	Radio and TV receiving sets	42.9	45.7	43.2	43.8	44.3
366	Communication equipment	211.0	210.0	210.3	211.6	212.1
3661	Telephone and telegraph apparatus	83.9	86.4	81.2	80.9	80.6
3662	Radio and TV communication equipment	127.1	123.6	129.1	130.7	131.5
367	Electronic components and accessories	288.2	292.5	284.5	285.9	287.8
3671-3	Electronic tubes	17.2	17.0	17.1	17.2	17.3
3674	Semiconductors and related devices	105.3	102.7	106.3	106.8	107.6
3679	Electronic components, nec.	114.9	117.9	113.5	114.5	115.3
369	Misc. electrical equipment and supplies	57.7	59.7	59.9	61.3	61.6
3694	Engine electrical equipment	26.2	27.7	28.2	29.9	30.0
TRANSPORTATION EQUIPMENT						
37	Motor vehicles and equipment	295.9	319.5	296.5	301.4	296.1
371	Motor vehicles and equipment	107.1	130.7	105.9	109.8	105.7
3711	Motor vehicles and car bodies	41.9	55.1	41.7	43.2	39.1
3713	Truck and bus bodies	4.2	5.0	3.7	4.0	4.1
3714	Motor vehicle parts and accessories	58.0	67.8	57.6	59.5	59.2
372	Aircraft and parts	119.8	118.6	120.7	121.4	121.8
3721	Aircraft	64.7	65.8	64.6	65.1	65.4
3724	Aircraft engines and engine parts	28.4	27.4	29.1	29.1	29.1
3728	Aircraft equipment, nec.	26.8	25.4	27.0	27.2	27.3
373	Ship and boat building and repairing	21.3	23.5	21.1	21.2	21.6
3731	Ship building and repairing	15.4	16.3	15.3	15.3	15.5
374	Railroad equipment	6.6	7.0	6.2	6.0	6.0
376	Guided missiles, space vehicles, parts	24.6	22.7	25.3	25.8	26.2
3761	Guided missiles and space vehicles	20.4	19.0	21.0	21.4	21.8
379	Miscellaneous transportation equipment	9.7	10.0	11.0	10.9	9.5
INSTRUMENTS AND RELATED PRODUCTS						
38	Engineering and scientific instruments	297.3	297.2	295.5	297.2	298.2
381	Engineering and scientific instruments	24.3	23.8	24.5	24.6	24.8
382	Measuring and controlling devices	102.9	104.5	101.9	102.1	103.3
3822	Environmental controls	23.3	25.1	22.9	23.0	23.1
3823	Process control instruments	17.8	17.3	17.8	17.9	18.6
3825	Instruments to measure electricity	45.2	44.6	45.2	45.2	45.6
383	Optical instruments and lenses	12.1	12.1	11.9	11.9	11.8
384	Medical instruments and supplies	78.8	76.6	78.7	79.6	79.8
3841	Surgical and medical instruments	36.7	35.3	36.8	37.2	37.2
3842	Surgical appliances and supplies	34.3	33.6	34.0	34.4	34.7
385	Ophthalmic goods	27.3	27.3	27.0	27.4	27.2
386	Photographic equipment and supplies	38.0	37.0	38.4	38.8	38.6
387	Watches, clocks, and watchcases	14.0	15.9	13.1	12.8	12.7
MISCELLANEOUS MANUFACTURING INDUSTRIES						
39	Jewelry, silverware, and plated ware	198.5	208.0	200.4	198.3	190.9
391	Jewelry, silverware, and plated ware	26.0	28.0	27.8	27.8	27.5
393	Musical instruments	9.2	10.3	9.1	9.6	9.8
394	Toys and sporting goods	61.2	62.0	62.2	59.3	53.2
3942, 4	Dolls, games, toys, and children's vehicles	31.6	30.9	34.5	31.3	26.1
3949	Sporting and athletic goods, nec.	29.6	31.1	27.7	28.0	27.1
395	Pens, pencils, office and art supplies	21.8	22.2	21.3	21.7	22.0
396	Costume jewelry and notions	30.9	33.1	31.0	31.5	30.2
399	Miscellaneous manufactures	49.5	52.4	49.0	48.4	48.2
NONDURABLE GOODS						
20	Meat products	498.4	500.4	527.0	505.8	488.4
201	Meat products	117.9	118.4	119.0	120.7	118.5
2011	Meat packing plants	29.5	29.4	29.6	29.8	29.5
2013	Sausages and other prepared meats	20.3	20.8	20.3	20.6	20.1
2016	Poultry dressing plants	60.4	60.1	60.9	62.2	61.2
202	Dairy products	37.5	37.0	37.9	37.6	37.4
2026	Fluid milk	18.3	18.0	18.2	18.1	18.0
203	Preserved fruits and vegetables	97.8	91.5	112.2	96.7	83.5
2032	Canned specialties	8.5	8.8	9.0	8.8	8.7
2033	Canned fruits and vegetables	39.5	28.9	49.4	37.0	28.7
2037	Frozen fruits and vegetables	18.2	21.4	20.0	18.8	15.7
204	Grain mill products	28.8	28.4	29.2	29.0	29.3
205	Bakery products	60.4	61.9	60.5	60.3	59.2
2051	Bread, cake, and related products	40.0	41.1	39.3	39.9	39.4
2052	Cookies and crackers	20.5	20.8	21.2	20.4	19.8
206	Sugar and confectionery products	41.2	47.6	47.5	44.0	44.6
207	Fats and oils	5.8	6.0	5.9	5.9	5.9
208	Beverages	40.0	40.2	41.7	41.1	40.7
2082	Malt beverages	7.6	6.8	7.8	7.8	7.8
2086	Bottled and canned soft drinks	18.7	18.0	19.0	19.0	18.9
209	Misc. foods and kindred products	69.0	69.4	73.1	70.5	69.3
21	TOBACCO MANUFACTURES	24.6	25.5	28.9	28.5	27.0
211	Cigarettes	13.7	13.9	13.7	14.0	14.8

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]						
1972 SIC Code	Industry	AVG. 1980	Dec. 1979	Oct. 1980	Nov. 1980	Dec. 1980
22	TEXTILE MILL PRODUCTS	411.1	423.4	407.5	408.8	407.1
221	Weaving mills, cotton	65.9	67.4	64.8	64.9	64.9
222	Weaving mills, synthetics	48.5	50.5	48.5	48.5	48.5
223	Weaving and finishing mills, wool	7.2	7.9	6.8	6.9	7.0
224	Narrow fabric mills	14.5	15.0	14.5	14.4	14.6
225	Knitting mills	147.3	147.9	146.9	146.9	145.7
2251	Women's hosiery, except socks	24.2	25.1	23.4	23.5	23.5
2252	Hosiery, nec	23.8	24.0	24.0	24.0	24.1
2253	Knit outerwear mills	52.5	51.2	53.8	53.7	52.5
2254	Knit underwear mills	24.4	24.5	24.2	24.4	24.4
2257	Circular knit fabric mills	12.5	13.1	12.0	11.9	11.8
226	Textile finishing, except wool	22.1	23.1	21.5	21.3	21.1
2261	Finishing plants, cotton	9.3	9.6	9.1	8.9	8.7
2262	Finishing plants, synthetic	6.4	6.8	6.3	6.3	6.5
227	Floor covering mills	22.2	23.7	21.7	21.9	21.7
228	Yarn and thread mills	64.2	66.7	63.8	64.6	64.5
2281	Yarn mills, except wool	40.2	41.5	40.1	40.6	40.6
2282	Throwing and winding mills	13.9	14.5	13.8	14.0	14.1
229	Miscellaneous textile goods	19.3	21.2	19.0	19.4	19.1
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,048.5	1,042.3	1,052.3	1,047.1	1,033.3
231	Men's and boys' suits and coats	61.1	60.6	61.5	61.8	61.6
232	Men's and boys' furnishings	313.3	310.5	310.6	309.9	306.5
2321	Men's and boys' shirts and nightwear	89.5	90.0	89.0	88.0	87.2
2327	Men's and boys' separate trousers	66.1	65.7	66.3	66.6	66.0
2328	Men's and boys' work clothing	89.6	88.6	87.4	89.7	88.3
233	Women's and misses' outerwear	369.4	356.7	370.5	367.0	362.5
2331	Women's and misses' blouses and waists	54.6	52.9	55.2	55.9	55.5
2335	Women's and misses' dresses	135.3	131.3	132.5	132.4	128.9
2337	Women's and misses' suits and coats	51.4	46.7	53.3	50.5	51.6
2339	Women's and misses' outerwear, nec	128.1	125.8	129.5	128.2	126.5
234	Women's and children's undergarments	77.5	79.4	77.7	76.8	75.5
2341	Women's and children's underwear	63.0	63.7	63.7	62.5	61.2
2342	Brassieres and allied garments	14.5	15.7	14.0	14.3	14.3
236	Children's outerwear	54.2	54.2	54.3	53.5	52.3
2361	Children's dresses and blouses	22.2	22.7	22.2	22.0	21.9
238	Misc. apparel and accessories	43.9	43.9	44.7	44.1	43.3
239	Misc. fabricated textile products	115.2	123.2	119.0	119.9	117.8
2391	Curtains and draperies	22.3	24.4	22.4	22.5	22.2
2392	House furnishings, nec	33.0	35.2	33.3	33.7	33.0
2396	Automotive and apparel trimmings	16.0	17.1	19.4	19.0	18.8
26	PAPER AND ALLIED PRODUCTS	158.5	160.2	158.5	158.9	158.2
261, 2,6	Paper and pulp mills	28.0	27.7	28.0	28.3	28.4
262	Paper mills, except building paper	25.0	24.6	25.1	25.3	25.4
263	Paperboard mills	5.9	5.9	5.9	5.8	5.8
264	Misc. converted paper products	74.8	75.3	74.8	74.5	73.7
265	Paperboard containers and boxes	49.9	51.3	49.8	50.3	50.3
27	PRINTING AND PUBLISHING	502.3	499.5	502.7	508.0	511.6
271	Newspapers	162.5	159.9	163.7	165.0	165.9
272	Periodicals	50.4	50.6	50.5	50.8	50.4
273	Books	56.0	56.7	53.8	55.1	56.8
274	Miscellaneous publishing	25.5	25.4	25.0	26.4	26.5
275	Commercial printing	133.4	132.5	135.6	137.1	137.4
2751	Commercial printing, letterpress	56.4	56.9	57.5	57.8	57.8
2752	Commercial printing, lithographic	70.9	69.9	72.1	73.3	73.4
276	Manifold business forms	15.1	15.4	14.9	14.9	15.1
278	Blankbooks and bookbinding	34.0	34.4	33.2	32.8	33.5
279	Printing trade services	10.9	10.3	11.2	11.1	11.2
28	CHEMICALS AND ALLIED PRODUCTS	278.7	275.9	280.1	280.6	280.9
281	Industrial inorganic chemicals	24.8	24.3	24.9	24.9	25.1
2819	Industrial inorganic chemicals, nec	16.5	16.1	16.7	16.7	16.9
282	Plastics materials and synthetics	42.9	43.9	41.9	42.5	42.2
2821	Plastics materials and resins	11.7	11.4	11.8	11.9	12.0
2824	Organic fibers, noncellulosic	24.6	26.1	23.9	24.2	24.1
283	Drugs	83.6	81.1	84.4	84.9	85.1
2834	Pharmaceutical preparations	70.9	69.1	71.5	71.9	72.1
284	Soap, cleaners, and toilet goods	56.8	57.1	58.5	57.7	57.8
2841	Soap and other detergents	9.2	8.8	9.3	9.2	9.3
2844	Toilet preparations	34.6	35.5	36.1	35.5	35.5
285	Paints and allied products	12.8	12.9	12.7	12.7	12.6
286	Industrial organic chemicals	26.1	25.7	26.0	25.9	25.9
2861,9	Gum, wood, and industrial organic chemicals, nec	21.3	20.7	21.4	21.3	21.3
287	Agricultural chemicals	10.7	10.3	10.5	10.6	10.6
289	Miscellaneous chemical products	21.0	20.6	21.2	21.4	21.6

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	AVG. 1980	Dec. 1979	Oct. 1980	Nov. 1980	Dec. 1980
29	PETROLEUM AND COAL PRODUCTS	27.0	27.5	28.2	28.4	28.9
291	Petroleum refining	21.8	22.3	23.0	23.2	23.7
30	RUBBER AND MISC. PLASTICS PRODUCTS	248.3	266.4	246.6	248.3	248.6
301	Tires and inner tubes	9.9	11.3	9.3	9.5	9.7
302	Rubber and plastics footwear	13.8	13.5	13.9	14.0	13.5
303,4	Reclaimed rubber, and rubber and plastics hose and belting	5.3	6.2	5.3	5.3	5.4
306	Fabricated rubber products, nec	36.1	39.1	36.0	36.0	36.0
307	Miscellaneous plastics products	183.2	196.3	182.1	183.5	184.0
31	LEATHER AND LEATHER PRODUCTS	145.1	148.5	144.6	145.1	143.1
311	Leather tanning and finishing	2.7	2.7	2.7	2.7	2.8
314	Footwear, except rubber	99.5	97.9	99.7	100.1	98.7
3143	Men's footwear, except athletic	35.9	35.5	37.1	37.6	37.4
3144	Women's footwear, except athletic	40.7	41.8	38.4	38.3	37.9
316	Luggage	7.8	9.4	7.7	7.3	7.1
317	Handbags and personal leather goods	21.6	23.6	21.2	21.3	20.8
-	TRANSPORTATION AND PUBLIC UTILITIES	1,293	1,278	1,320	1,318	1,319
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	64.5	68.1	71.8	71.8	71.7
411	Local and suburban transportation	13.9	12.8	15.2	15.1	15.3
412	Taxicabs	7.4	7.5	7.6	7.8	7.7
413	Intercity highway transportation	5.5	5.3	5.6	5.6	5.6
415	School buses	35.3	40.1	40.8	40.8	40.7
42	TRUCKING AND WAREHOUSING	152.5	158.5	154.2	154.0	155.4
421,3	Trucking and trucking terminals	136.0	139.4	135.4	136.5	139.5
422	Public warehousing	16.5	19.1	18.8	17.5	15.9
44	WATER TRANSPORTATION	20.0	20.5	20.1	19.7	19.4
45	TRANSPORTATION BY AIR	147.0	145.0	146.2	145.4	146.5
451,2	Air transportation	138.6	137.1	137.8	137.0	138.0
46	PIPE LINES, EXCEPT NATURAL GAS	2.5	2.2	2.6	2.7	2.7
47	TRANSPORTATION SERVICES	91.1	91.1	90.5	90.1	90.7
48	COMMUNICATION	634.5	623.6	642.6	643.3	642.3
481	Telephone communication	550.8	543.3	556.4	557.0	555.1
483	Radio and television broadcasting	64.6	61.9	66.5	66.6	67.3
49	ELECTRIC, GAS, AND SANITARY SERVICES	153.9	145.6	157.0	157.5	158.4
491	Electric services	71.4	67.0	73.8	74.2	74.6
492	Gas production and distribution	36.6	35.0	37.2	37.2	37.4
493	Combination utility services	35.2	33.8	35.2	35.1	35.3
495	Sanitary services	5.8	5.2	6.0	6.2	6.2
-	WHOLESALE AND RETAIL TRADE	8,987	9,380	9,077	9,268	9,538
50,51	WHOLESALE TRADE	1,367	1,355	1,392	1,389	1,395
50	WHOLESALE TRADE-DURABLE GOODS	757	750	759	762	765
501	Motor vehicles and automotive equipment	92.3	95.7	91.1	90.9	91.1
502	Furniture and home furnishings	44.2	42.9	44.5	45.4	45.2
503	Lumber and construction materials	34.7	34.7	35.0	35.1	35.3
504	Sporting goods, toys, and hobby goods	24.5	25.3	25.0	25.2	25.2
505	Metals and minerals, except petroleum	29.1	28.6	28.9	29.2	29.5
506	Electrical goods	117.7	116.4	117.5	118.9	119.5
507	Hardware, plumbing, and heating equipment	67.2	69.4	65.8	65.9	66.0
508	Machinery, equipment, and supplies	298.7	287.0	301.6	301.4	303.5
509	Miscellaneous durable goods	49.0	49.6	49.6	49.7	49.5
51	WHOLESALE TRADE-NONDURABLE GOODS	610	605	633	627	630
511	Paper and paper products	45.1	43.3	46.4	46.7	46.8
512	Drugs, proprietaries, and sundries	67.2	67.2	67.9	68.2	69.0
513	Apparel, piece goods, and notions	86.6	84.4	88.8	89.6	88.2
514	Groceries and related products	152.6	146.9	162.6	156.0	158.8
516	Chemicals and allied products	33.1	31.9	33.8	33.8	34.9
517	Petroleum and petroleum products	54.6	51.3	55.8	56.3	57.0
518	Beer, wine, and distilled beverages	20.9	21.2	21.1	21.3	21.8
519	Miscellaneous nondurable goods	115.4	118.0	116.3	115.9	116.2

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	AVG. 1980	Dec. 1979	Oct. 1980	Nov. 1980	Dec. 1980
52-59	RETAIL TRADE	7,620	8,025	7,685	7,879	8,143
52	BUILDING MATERIALS AND GARDEN SUPPLIES	161.4	164.0	160.9	162.7	166.2
521	Lumber and other building materials	65.2	64.9	65.7	66.6	66.8
525	Hardware stores	56.8	58.1	56.7	57.8	59.7
53	GENERAL MERCHANDISE STORES	1,502.2	1,755.2	1,490.1	1,580.7	1,723.9
531	Department stores	1,201.7	1,410.9	1,191.9	1,270.6	1,386.2
533	Variety stores	206.7	237.2	205.3	212.6	229.4
539	Misc. general merchandise stores	93.8	107.1	92.9	97.5	108.3
54	FOOD STORES	1,018.1	1,027.4	1,036.6	1,052.2	1,066.7
541	Grocery stores	852.2	841.1	871.9	881.9	888.6
542	Meat markets and freezer provisioners	17.2	18.0	16.8	17.4	17.0
546	Retail bakeries	79.2	80.6	79.3	80.8	81.7
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	320.1	322.2	321.6	323.1	324.9
551,2	New and used car dealers	117.2	124.2	115.1	115.6	115.9
553	Auto and home supply stores	49.2	51.5	49.7	51.2	52.6
554	Gasoline service stations	135.5	129.6	139.3	138.7	138.7
56	APPAREL AND ACCESSORY STORES	674.8	763.4	680.3	709.9	771.4
561	Men's and boys' clothing and furnishings	61.7	76.4	60.3	63.8	72.7
562	Women's ready-to-wear stores	318.6	354.8	324.4	335.5	361.0
565	Family clothing stores	140.7	163.8	140.8	152.2	168.1
566	Shoe stores	77.0	84.1	76.9	76.7	82.6
57	FURNITURE AND HOME FURNISHING STORES	202.1	208.6	203.5	208.2	212.2
571	Furniture and home furnishings	134.3	136.8	134.2	137.6	139.6
572	Household appliance stores	22.7	23.4	22.8	23.6	24.5
573	Radio, television, and music stores	45.2	48.4	46.5	47.0	48.1
58	EATING AND DRINKING PLACES	2,712.8	2,662.9	2,742.5	2,757.9	2,737.7
59	MISCELLANEOUS RETAIL	1,028.2	1,121.4	1,049.4	1,084.0	1,139.7
591	Drug stores and proprietary stores	314.5	328.8	317.9	315.8	326.2
592	Liquor stores	31.9	34.5	32.4	32.4	34.3
594	Miscellaneous shopping goods stores	361.1	412.1	369.2	394.2	429.1
596	Nonstore retailers	157.6	177.8	165.8	174.3	176.9
598	Fuel and ice dealers	23.7	24.6	23.9	24.1	24.9
599	Retail stores, nec	118.7	121.9	120.0	122.9	128.7
-	FINANCE, INSURANCE, AND REAL ESTATE	3,034	2,953	3,061	3,076	3,092
60	BANKING	1,096.3	1,072.3	1,100.9	1,109.0	1,115.1
602	Commercial and stock savings banks	1,009.3	987.9	1,012.9	1,020.3	1,025.8
61	CREDIT AGENCIES OTHER THAN BANKS	370.8	374.1	374.1	376.7	380.4
612	Savings and loan associations	178.6	177.2	182.4	184.9	188.0
614	Personal credit institutions	124.7	128.8	123.9	124.0	125.0
62	SECURITY, COMMODITY BROKERS, AND SERVICES	87.0	81.1	90.8	91.9	92.5
621	Security brokers and dealers	68.4	63.8	71.4	72.4	72.9
63	INSURANCE CARRIERS	752.6	730.0	757.5	758.7	761.2
631	Life insurance	294.9	275.1	299.3	299.4	300.3
632	Medical service and health insurance	102.0	100.0	102.8	103.3	103.4
633	Fire, marine, and casualty insurance	308.8	304.1	308.7	308.8	310.0
64	INSURANCE AGENTS, BROKERS, AND SERVICE	282.1	268.7	286.2	287.3	289.0
65	REAL ESTATE	366.6	351.4	371.7	372.3	373.4
651	Real estate operators and lessors	142.9	136.4	146.1	145.8	146.1
653	Real estate agents and managers	174.0	166.4	175.0	176.0	177.0
655	Subdividers and developers	34.6	32.2	35.8	35.6	35.2
66	COMBINED REAL ESTATE, INSURANCE, ETC.	15.0	15.4	14.8	14.8	14.9
67	HOLDING AND OTHER INVESTMENT OFFICES.	63.1	59.9	64.6	65.0	65.0
-	SERVICES	10,381	10,062	10,564	10,592	10,607
70	HOTELS AND OTHER LODGING PLACES	584.8	537.5	581.8	553.4	539.1
701	Hotels, motels, and tourist courts	560.8	516.9	563.1	536.1	521.2

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	AVG. 1980	Dec. 1979	Oct. 1980	Nov. 1980	Dec. 1980
72	PERSONAL SERVICES	637.7	621.7	634.3	639.7	640.5
721	Laundry, cleaning, and garment services	223.5	225.5	224.4	225.4	225.0
723	Beauty shops	261.8	264.0	262.1	264.3	265.0
726	Funeral service and crematories	19.3	18.2	19.5	19.4	19.6
73	BUSINESS SERVICES	1,283.9	1,291.7	1,318.5	1,334.2	1,344.7
731	Advertising	69.3	68.9	69.8	69.6	70.0
732	Credit reporting and collection	51.8	55.3	51.2	51.4	50.7
733	Mailing, reproduction, stenographic	60.4	58.7	63.9	63.8	63.9
734	Services to buildings	188.1	189.3	190.6	189.8	191.5
736	Personnel supply services	311.5	323.0	322.6	330.6	341.5
737	Computer and data processing services	135.5	134.2	138.5	140.4	142.9
75	AUTO REPAIR, SERVICES, AND GARAGES	98.3	96.1	98.5	99.3	99.0
753	Automotive repair shops	42.7	41.3	42.9	43.3	43.0
76	MISCELLANEOUS REPAIR SERVICES	62.7	61.7	63.9	63.8	65.0
78	MOTION PICTURES	80.9	83.1	74.8	76.1	77.4
781	Motion picture production and services	23.2	28.5	19.6	21.9	23.2
783	Motion picture theaters	52.0	49.1	49.7	48.6	48.4
79	AMUSEMENT AND RECREATION SERVICES	283.5	241.1	270.8	257.9	260.9
80	HEALTH SERVICES	4,256.4	4,128.7	4,319.1	4,341.6	4,350.2
801	Offices of physicians	589.4	573.3	596.1	597.8	600.5
802	Offices of dentists	292.1	283.0	293.1	297.8	299.2
805	Nursing and personal care facilities	887.5	859.0	900.5	903.8	904.8
806	Hospitals	2,198.8	2,136.8	2,235.1	2,243.5	2,244.4
81	LEGAL SERVICES	341.5	330.0	346.9	351.0	352.7
82	EDUCATIONAL SERVICES	577.1	592.7	635.5	639.4	629.3
821	Elementary and secondary schools	167.0	166.2	182.1	183.6	183.5
822	Colleges and universities	341.0	358.0	383.9	384.8	374.7
83	SOCIAL SERVICES	861.0	822.6	878.0	888.9	890.7
89	MISCELLANEOUS SERVICES	321.5	299.2	325.7	326.6	330.3
891	Engineering and architectural services	116.5	109.7	118.9	119.7	120.7
893	Accounting, auditing, and bookkeeping	144.8	132.7	146.9	146.5	149.1
-	GOVERNMENT	7,691	7,766	7,833	7,941	7,915
-	FEDERAL GOVERNMENT	908	859	875	876	877
-	STATE AND LOCAL GOVERNMENT	6,784	6,907	6,958	7,065	7,038
-	State government	1,623.2	1,661.0	1,661.8	1,679.4	1,672.8
-	Hospitals	345.7	331.5	346.1	346.1	346.0
-	State education	655.1	708.7	700.3	716.1	704.0
-	General administration including executive, legislative, and judicial functions	416.2	418.6	410.3	411.5	414.8
-	Local government	5,160.3	5,245.6	5,295.8	5,385.1	5,364.8
-	Transportation and public utilities	97.7	92.9	99.8	99.3	99.8
-	Hospitals	476.4	463.1	480.8	483.7	484.8
-	Local education	3,318.7	3,490.2	3,485.9	3,553.5	3,545.2
-	General administration including executive, legislative, and judicial functions	1,032.6	982.7	995.0	1,013.1	1,003.9

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT**

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

[In thousands]

Industry division and group	1980												1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. P	Feb. P	
TOTAL	91,186	91,144	90,951	90,468	90,047	89,867	90,142	90,384	90,710	90,961	91,125	91,499	91,550	
GOODS-PRODUCING	26,623	26,475	26,121	25,745	25,422	25,163	25,312	25,476	25,636	25,811	25,892	26,042	25,960	
MINING	1,007	1,009	1,012	1,023	1,029	1,013	1,013	1,028	1,037	1,054	1,072	1,084	1,090	
CONSTRUCTION	4,659	4,529	4,467	4,436	4,379	4,322	4,359	4,404	4,442	4,475	4,508	4,608	4,500	
MANUFACTURING	20,957	20,933	20,642	20,286	20,014	19,828	19,940	20,044	20,157	20,282	20,312	20,350	20,370	
DURABLE GOODS	12,715	12,707	12,442	12,140	11,947	11,819	11,860	11,955	12,043	12,146	12,160	12,192	12,198	
Lumber and wood products	745	737	689	654	648	650	662	674	677	633	688	693	692	
Furniture and fixtures	495	494	491	472	461	449	456	464	466	469	472	474	474	
Stone, clay, and glass products	705	700	680	663	647	641	648	655	656	661	660	662	660	
Primary metal industries	1,214	1,209	1,193	1,144	1,096	1,049	1,059	1,074	1,096	1,119	1,133	1,135	1,135	
Fabricated metal products	1,711	1,711	1,678	1,620	1,584	1,551	1,569	1,587	1,595	1,606	1,608	1,608	1,611	
Machinery, except electrical	2,529	2,530	2,518	2,517	2,476	2,448	2,437	2,452	2,469	2,475	2,480	2,484	2,490	
Electric and electronic equipment	2,168	2,175	2,167	2,127	2,094	2,079	2,083	2,091	2,107	2,120	2,135	2,150	2,154	
Transportation equipment	2,006	2,005	1,885	1,819	1,831	1,839	1,840	1,851	1,873	1,901	1,868	1,865	1,866	
Instruments and related products	702	705	703	700	696	698	697	697	697	701	701	703	701	
Miscellaneous manufacturing ind.	440	439	438	424	414	415	409	410	407	411	415	418	415	
NONDURABLE GOODS	8,242	8,231	8,200	8,146	8,067	8,009	8,080	8,089	8,114	8,136	8,152	8,158	8,172	
Food and kindred products	1,713	1,704	1,690	1,691	1,677	1,683	1,690	1,672	1,682	1,686	1,684	1,679	1,683	
Tobacco manufactures	68	69	69	70	71	69	67	68	69	71	70	70	71	
Textile mill products	888	883	884	869	843	833	851	851	856	856	857	858	860	
Apparel and other textile products	1,313	1,316	1,302	1,291	1,287	1,276	1,296	1,299	1,292	1,291	1,291	1,290	1,290	
Paper and allied products	709	703	702	692	685	680	682	686	690	692	693	694	695	
Printing and publishing	1,273	1,274	1,272	1,268	1,269	1,266	1,266	1,269	1,272	1,278	1,284	1,285	1,292	
Chemicals and allied products	1,121	1,123	1,123	1,120	1,112	1,103	1,100	1,104	1,105	1,108	1,112	1,115	1,117	
Petroleum and coal products	161	157	175	203	205	207	208	208	209	209	210	213	209	
Rubber and misc. plastic products	751	749	740	703	681	663	680	692	699	705	711	713	714	
Leather and leather products	245	244	243	239	237	229	240	240	240	240	240	241	241	
SERVICE-PRODUCING	64,563	64,668	64,830	64,723	64,625	64,704	64,830	64,908	65,074	65,150	65,233	65,457	65,590	
TRANSPORTATION AND PUBLIC UTILITIES	5,198	5,202	5,178	5,167	5,134	5,114	5,129	5,124	5,147	5,132	5,137	5,148	5,147	
WHOLESALE AND RETAIL TRADE	20,637	20,610	20,531	20,487	20,459	20,506	20,589	20,620	20,641	20,660	20,638	20,782	20,892	
WHOLESALE TRADE	5,302	5,301	5,286	5,268	5,245	5,247	5,263	5,280	5,292	5,297	5,302	5,310	5,333	
RETAIL TRADE	15,335	15,309	15,245	15,219	15,214	15,259	15,326	15,340	15,349	15,363	15,336	15,472	15,559	
FINANCE, INSURANCE, AND REAL ESTATE	5,101	5,115	5,119	5,137	5,150	5,167	5,180	5,194	5,214	5,225	5,245	5,265	5,275	
SERVICES	17,540	17,580	17,618	17,659	17,652	17,760	17,788	17,861	17,913	17,969	18,068	18,135	18,164	
GOVERNMENT	16,087	16,161	16,384	16,273	16,230	16,157	16,144	16,109	16,159	16,164	16,145	16,127	16,112	
FEDERAL	2,826	2,886	3,115	2,960	2,951	2,893	2,828	2,765	2,788	2,790	2,789	2,786	2,753	
STATE AND LOCAL	13,261	13,275	13,269	13,313	13,279	13,264	13,316	13,344	13,371	13,374	13,356	13,341	13,359	

p=preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1979	1980											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
TOTAL	37,739	37,941	38,139	38,157	38,213	38,059	37,997	38,069	38,235	38,397	38,469	38,585	38,645
GOODS-PRODUCING	6,990	7,010	7,017	7,025	6,965	6,832	6,742	6,699	6,728	6,761	6,797	6,834	6,880
MINING ¹	95	95	97	99	100	102	105	106	107	107	107	109	111
CONSTRUCTION	373	375	377	380	382	382	380	381	384	387	390	395	397
MANUFACTURING	6,522	6,540	6,543	6,546	6,483	6,348	6,257	6,212	6,237	6,267	6,300	6,330	6,372
DURABLE GOODS	3,136	3,140	3,141	3,148	3,103	3,008	2,954	2,930	2,922	2,955	2,982	3,004	3,028
Lumber and wood products	112	111	112	112	104	98	95	95	99	101	101	101	103
Furnitures and fixtures	147	147	146	146	146	140	136	133	135	137	138	139	141
Stone, clay, and glass products	135	135	135	135	132	127	124	122	123	125	126	126	127
Primary metal industries ¹	133	132	132	132	131	123	121	116	116	120	122	123	124
Fabricated metal products	362	362	362	361	352	334	323	320	326	330	333	336	338
Machinery, except electrical ¹	489	500	501	503	500	495	492	487	482	488	493	497	502
Electric and electronic equipment	929	932	933	937	931	906	888	880	876	879	887	895	905
Transportation equipment ¹	320	311	310	311	298	286	286	286	280	290	297	301	296
Instruments and related products	297	298	300	302	301	298	294	296	294	294	295	296	298
Miscellaneous manufacturing ind.	212	212	210	209	208	201	195	195	191	191	190	190	194
NONDURABLE GOODS	3,386	3,400	3,402	3,398	3,380	3,340	3,303	3,282	3,315	3,312	3,318	3,326	3,344
Food and kindred products	511	510	509	503	500	499	491	492	451	488	498	497	498
Tobacco manufactures	23	24	24	24	25	25	25	25	24	25	25	26	25
Textile mill products	424	423	424	424	422	415	401	397	405	404	405	406	408
Apparel and other textile products	1,050	1,059	1,064	1,066	1,056	1,047	1,042	1,039	1,046	1,046	1,040	1,037	1,041
Paper and allied products	161	162	162	162	162	159	156	155	155	156	157	158	159
Printing and publishing	496	500	502	503	502	501	502	500	500	502	502	506	509
Chemicals and allied products	278	278	280	280	280	278	278	277	276	277	278	280	283
Petroleum and coal products ¹	28	28	23	23	24	27	28	29	29	28	28	28	29
Rubber and misc. plastics products	266	267	265	264	261	244	236	231	237	241	242	244	248
Leather and leather products	149	149	149	149	148	145	144	137	144	145	143	144	144
SERVICE-PRODUCING	30,749	30,931	31,122	31,132	31,248	31,227	31,255	31,370	31,507	31,636	31,672	31,751	31,765
TRANSPORTATION AND PUBLIC UTILITIES	1,273	1,273	1,280	1,283	1,286	1,290	1,286	1,286	1,291	1,294	1,315	1,313	1,314
WHOLESALE AND RETAIL TRADE ..	8,846	8,926	8,995	8,973	8,947	8,943	8,981	8,976	9,008	9,034	9,032	9,045	8,993
WHOLESALE TRADE	1,343	1,351	1,361	1,365	1,363	1,365	1,361	1,367	1,363	1,371	1,378	1,373	1,383
RETAIL TRADE	7,503	7,575	7,634	7,608	7,584	7,578	7,620	7,609	7,645	7,663	7,654	7,672	7,610
FINANCE, INSURANCE, AND REAL ESTATE	2,952	2,982	3,001	3,008	3,018	3,023	3,018	3,035	3,038	3,048	3,064	3,073	3,092
SERVICES	10,094	10,150	10,225	10,217	10,261	10,303	10,306	10,412	10,435	10,499	10,522	10,581	10,639
GOVERNMENT	7,584	7,600	7,621	7,651	7,736	7,668	7,664	7,661	7,735	7,761	7,739	7,739	7,727
FEDERAL	869	873	885	912	1,000	941	936	914	895	879	884	886	887
STATE AND LOCAL	6,715	6,727	6,736	6,739	6,736	6,727	6,728	6,747	6,840	6,882	6,855	6,853	6,840

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

ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

[in thousands]

Industry division and group	1980												1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. P	Feb. P	
TOTAL PRIVATE	61,308	61,124	60,725	60,325	59,964	59,888	60,136	60,363	60,567	60,785	60,901	61,228	61,254	
GOODS-PRODUCING	19,371	19,181	18,814	18,438	18,144	17,901	18,035	18,181	18,313	18,461	18,521	18,659	18,595	
MINING	750	750	755	764	770	757	753	766	772	783	796	804	809	
CONSTRUCTION	3,750	3,581	3,509	3,488	3,443	3,385	3,410	3,443	3,476	3,499	3,530	3,629	3,526	
MANUFACTURING	14,871	14,850	14,550	14,186	13,931	13,759	13,872	13,972	14,065	14,179	14,195	14,226	14,260	
DURABLE GOODS	8,967	8,961	8,686	8,386	8,205	8,084	8,123	8,212	8,288	8,381	8,386	8,409	8,424	
Lumber and wood products	629	621	577	544	538	542	553	563	566	571	577	579	576	
Furniture and fixtures	403	401	398	380	369	359	366	374	376	378	381	382	383	
Stone, clay, and glass products	553	549	530	513	498	492	498	505	506	511	510	510	511	
Primary metal industries	945	941	924	877	832	793	802	817	838	860	873	875	877	
Fabricated metal products	1,286	1,286	1,252	1,195	1,166	1,136	1,152	1,170	1,178	1,189	1,191	1,190	1,194	
Machinery, except electrical	1,649	1,649	1,630	1,622	1,586	1,561	1,551	1,568	1,578	1,578	1,575	1,581	1,585	
Electric and electronic equipment	1,408	1,413	1,400	1,358	1,320	1,305	1,309	1,315	1,323	1,335	1,347	1,358	1,360	
Transportation equipment	1,336	1,339	1,220	1,159	1,172	1,172	1,171	1,181	1,207	1,238	1,206	1,204	1,212	
Instruments and related products	423	427	423	419	415	414	415	414	414	416	417	418	417	
Miscellaneous manufacturing ind.	335	335	332	319	309	310	306	305	302	305	309	312	309	
NONDURABLE GOODS	5,904	5,889	5,864	5,800	5,726	5,675	5,749	5,760	5,777	5,798	5,809	5,817	5,836	
Food and kindred products	1,177	1,169	1,157	1,157	1,143	1,149	1,157	1,140	1,149	1,154	1,152	1,149	1,150	
Tobacco manufactures	53	53	54	55	55	54	52	54	54	55	54	54	54	
Textile mill products	775	775	771	756	731	721	739	740	743	744	745	745	748	
Apparel and other textile products	1,123	1,126	1,111	1,100	1,097	1,093	1,107	1,108	1,104	1,104	1,103	1,104	1,103	
Paper and allied products	538	537	532	522	515	509	512	515	519	521	523	524	525	
Printing and publishing	719	717	715	709	711	708	710	714	712	716	721	720	726	
Chemicals and allied products	637	636	637	632	625	616	615	619	619	623	624	628	634	
Petroleum and coal products	91	88	109	131	131	132	133	133	133	133	134	137	137	
Rubber and misc. plastics products	584	582	573	537	518	502	521	533	540	544	550	552	555	
Leather and leather products	207	206	205	201	200	191	203	204	204	204	203	204	204	
SERVICE-PRODUCING	41,937	41,943	41,911	41,887	41,820	41,987	42,101	42,182	42,254	42,324	42,380	42,569	42,659	
TRANSPORTATION AND PUBLIC UTILITIES	4,346	4,345	4,329	4,314	4,282	4,260	4,272	4,276	4,296	4,281	4,286	4,279	4,278	
WHOLESALE AND RETAIL TRADE ..	18,138	18,098	18,029	17,975	17,936	17,984	18,046	18,074	18,099	18,106	18,077	18,207	18,287	
WHOLESALE TRADE	4,348	4,347	4,334	4,308	4,284	4,288	4,297	4,307	4,317	4,318	4,325	4,323	4,338	
RETAIL TRADE	13,790	13,751	13,695	13,667	13,652	13,696	13,749	13,767	13,782	13,788	13,752	13,884	13,949	
FINANCE, INSURANCE, AND REAL ESTATE	3,860	3,869	3,873	3,893	3,898	3,917	3,926	3,930	3,940	3,947	3,961	3,970	3,975	
SERVICES	15,593	15,631	15,680	15,705	15,704	15,826	15,857	15,902	15,919	15,990	16,056	16,113	16,119	

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

p=preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

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

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
1978				
January.....	68.6	80.8	82.3	79.7
February.....	68.6	77.3	82.8	82.3
March.....	71.8	80.2	79.9	81.1
April.....	69.8	74.7	74.7	84.6
May.....	61.9	73.0	75.3	83.7
June.....	64.2	66.6	74.7	82.6
July.....	61.0	68.0	73.3	81.1
August.....	67.7	70.1	77.6	79.9
September.....	67.2	74.1	80.5	79.1
October.....	68.0	78.2	82.0	74.1
November.....	75.3	81.1	79.1	76.7
December.....	74.7	81.7	78.2	74.4
1979				
January.....	66.9	75.9	74.7	73.3
February.....	66.3	70.3	71.8	70.6
March.....	62.2	64.0	64.0	69.2
April.....	49.7	60.2	60.5	67.7
May.....	58.1	54.7	53.8	63.4
June.....	57.8	59.9	51.5	58.4
July.....	57.0	53.8	58.1	59.6
August.....	54.4	52.0	55.5	54.9
September.....	52.9	57.6	55.2	50.6
October.....	65.1	61.9	59.3	46.5
November.....	55.2	61.9	63.1	39.5
December.....	53.5	57.3	56.4	37.8
1980				
January.....	60.2	57.6	45.3	33.4
February.....	54.9	52.6	36.9	33.1
March.....	45.9	39.2	32.3	35.2
April.....	34.6	29.1	24.7	33.1
May.....	28.8	25.0	26.7	35.5
June.....	30.2	23.8	25.6	35.8
July.....	36.3	34.9	32.3	32.8p
August.....	62.8	54.4	46.8	33.4p
September.....	62.8	68.9	68.6	
October.....	64.0	74.1	79.1p	
November.....	66.9	71.2	77.3p	
December.....	64.0	72.7p		
1981				
January.....	65.7p	70.1p		
February.....	56.4p			
March.....				
April.....				
May.....				
June.....				
July.....				
August.....				
September.....				
October.....				
November.....				
December.....				

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

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
1 ALABAMA ¹	1,357.3	1,366.9	1,355.5	16.9	16.9	16.9	70.9	71.2	71.0	371.6	358.0	356.5
2 Birmingham	357.1	353.4	349.6	10.0	9.6	9.4	19.6	19.1	18.3	69.2	61.5	62.1
3 Huntsville	119.4	120.4	118.3	(2)	(2)	(2)	3.8	3.9	3.5	37.1	35.8	34.9
4 Mobile	149.2	154.4	151.0	(2)	(2)	(2)	11.7	11.8	11.9	29.7	29.2	29.1
5 Montgomery	109.4	107.3	106.7	(2)	(2)	(2)	9.3	6.5	6.4	16.5	15.6	15.5
6 Tuscaloosa	50.0	50.9	49.8	1.9	2.3	2.3	2.2	2.2	1.9	9.3	8.2	8.1
7 ALASKA ¹	(*)	163.9	160.2	(*)	6.7	7.0	(*)	8.7	7.9	(*)	9.3	8.5
8 ARIZONA ¹	(*)	1,028.6	1,011.0	(*)	24.5	24.7	(*)	73.4	71.7	(*)	156.3	155.5
9 Phoenix	(*)	644.2	633.4	(*)	.4	.4	(*)	49.9	48.9	(*)	114.4	113.9
10 Tucson	(*)	190.5	186.7	(*)	7.6	7.6	(*)	14.2	13.9	(*)	22.1	22.1
11 ARKANSAS ¹	(*)	749.7	739.7	(*)	5.2	5.1	(*)	35.4	33.4	(*)	209.5	208.9
12 Fayetteville—Springdale	(*)	65.6	64.2	(*)	(2)	(2)	(*)	2.7	2.6	(*)	19.3	19.3
13 Fort Smith	(*)	67.2	66.7	(*)	1.0	1.0	(*)	2.6	2.6	(*)	21.3	21.2
14 Little Rock—North Little Rock	(*)	180.5	177.5	(*)	(2)	(2)	(*)	8.7	7.9	(*)	30.0	29.7
15 Pine Bluff	(*)	32.9	32.3	(*)	(2)	(2)	(*)	2.7	2.5	(*)	6.3	6.2
16 CALIFORNIA ¹	9,733.3	9,967.3	9,817.1	40.7	44.2	44.3	430.2	419.8	395.2	1,996.9	1,988.2	1,977.3
17 Anaheim—Santa Ana—Garden Grove	821.0	859.0	847.8	2.1	2.3	2.3	47.8	50.4	48.0	222.3	221.2	222.4
18 Bakersfield	127.4	133.8	132.6	11.0	11.4	11.4	7.2	7.6	7.4	9.4	9.3	9.4
19 Fresno	178.2	186.1	182.0	.8	1.0	1.0	11.3	10.8	10.4	22.0	22.1	21.3
20 Los Angeles—Long Beach	3,603.5	3,685.2	3,640.8	12.4	13.5	13.6	114.1	116.8	113.2	920.9	922.1	920.9
21 Modesto	84.7	87.7	85.6	.1	.1	.1	6.0	5.1	4.8	17.2	17.9	17.4
22 Oxnard—Simi Valley—Ventura	152.1	157.2	155.5	2.4	2.7	2.6	9.4	8.8	8.5	23.8	24.0	24.1
23 Riverside—San Bernardino—Ontario	435.6	443.0	438.6	2.7	2.2	2.3	27.6	26.1	25.2	65.9	63.1	63.1
24 Sacramento	393.4	406.2	400.3	.4	.5	.5	19.8	18.2	17.5	26.2	26.7	26.2
25 Salinas—Seaside—Monterey	85.6	87.6	86.5	.4	.4	.4	3.3	3.3	3.1	8.3	8.0	7.7
26 San Diego	646.1	663.7	658.0	.7	.4	.6	38.5	38.8	37.3	107.4	108.9	108.5
27 San Francisco—Oakland	1,541.4	1,583.7	1,565.5	2.9	3.4	3.4	71.8	73.6	71.1	203.7	204.6	202.6
28 San Jose	656.6	691.1	681.8	.2	.2	.2	24.0	25.2	23.2	232.4	242.5	237.4
29 Santa Barbara—Santa Maria—Lompoc	119.6	124.3	122.5	1.4	1.5	1.5	5.0	5.1	4.9	16.0	16.2	15.9
30 Santa Rosa	90.1	93.9	92.0	.4	.4	.4	5.6	5.7	4.9	14.6	15.1	14.6
31 Stockton	113.7	118.5	116.7	.1	.1	.1	5.4	5.5	5.1	19.0	19.0	18.7
32 Vallejo—Fairfield—Napa	97.6	101.8	99.8	.4	.5	.5	4.7	5.2	4.6	10.3	10.8	10.6
33 COLORADO	1,225.2	1,266.5	1,251.6	32.6	35.6	35.3	72.8	75.7	73.9	180.3	182.1	181.8
34 Denver—Boulder	780.2	808.5	797.3	17.4	19.4	19.1	45.2	45.0	44.8	123.5	126.1	125.9
35 CONNECTICUT ¹	(*)	1,442.4	1,420.5	(*)	(3)	(3)	(*)	49.1	42.4	(*)	440.5	440.9
36 Bridgeport	(*)	175.4	170.7	(*)	(3)	(3)	(*)	4.2	4.2	(*)	65.7	66.0
37 Hartford	(*)	406.8	400.0	(*)	(3)	(3)	(*)	13.8	12.0	(*)	99.5	99.7
38 New Britain	(*)	66.1	65.3	(*)	(3)	(3)	(*)	2.1	1.7	(*)	30.0	30.3
39 New Haven—West Haven	(*)	195.2	192.1	(*)	(3)	(3)	(*)	7.3	6.6	(*)	42.1	41.6
40 Stamford	(*)	110.2	108.4	(*)	(3)	(3)	(*)	5.6	5.3	(*)	30.9	31.0
41 Waterbury	(*)	88.3	87.5	(*)	(3)	(3)	(*)	2.8	2.3	(*)	32.9	32.8
42 DELAWARE ¹	250.1	263.2	254.6	(2)	(2)	(2)	14.1	14.2	12.5	67.5	74.1	71.9
43 Wilmington	225.2	234.2	227.8	(2)	(2)	(2)	15.3	14.6	13.4	62.3	67.5	66.0
44 DISTRICT OF COLUMBIA ¹	603.8	616.5	608.9	(2)	(2)	(2)	13.9	13.2	13.1	15.3	15.4	15.2
45 Washington SMSA	1,542.0	1,588.9	1,552.6	(2)	(2)	(2)	77.1	74.6	68.2	55.6	55.9	55.9
46 FLORIDA ¹	3,515.7	3,711.6	3,691.6	10.3	10.5	10.4	256.1	282.3	275.9	459.5	467.5	466.1
47 Bradenton	43.7	45.1	44.1	-	-	-	4.0	3.6	3.5	7.4	7.6	7.6
48 Daytona Beach	74.1	77.0	77.2	(2)	(2)	(2)	4.5	4.9	4.8	8.2	8.4	8.4
49 Fort Lauderdale—Hollywood	347.2	356.2	354.9	(2)	(2)	(2)	31.3	33.7	33.5	41.2	41.5	41.3
50 Fort Myers—Cape Coral	66.3	65.6	65.5	(2)	(2)	(2)	8.5	7.8	8.0	3.9	3.6	3.7
51 Gainesville	66.7	66.6	66.6	(2)	(2)	(2)	3.5	4.0	3.9	4.5	4.6	4.6
52 Jacksonville	288.6	297.7	296.1	(2)	(2)	(2)	15.5	16.0	16.0	34.1	34.2	34.4
53 Lakeland—Winter Haven	118.7	120.5	121.1	5.7	5.7	5.8	8.0	8.9	8.8	23.6	24.1	24.6
54 Melbourne—Titusville—Cocoa	100.0	104.2	102.5	(2)	(2)	(2)	6.0	6.4	6.2	21.9	23.5	22.5
55 Miami	718.9	736.8	733.4	(2)	(2)	(2)	37.3	39.1	38.8	100.7	103.0	102.4
56 Orlando	281.1	292.3	291.5	(2)	(2)	(2)	19.1	20.6	20.8	36.5	36.4	36.5
57 Panama City	30.8	32.5	32.2	(2)	(2)	(2)	2.0	2.0	1.9	3.4	3.5	3.6
58 Pensacola	95.6	99.1	99.4	(2)	(2)	(2)	6.7	7.3	7.2	12.9	12.6	12.8
59 Sarasota	71.3	72.2	72.8	(2)	(2)	(2)	8.0	7.2	7.1	6.3	6.3	6.3
60 Tallahassee	72.7	75.4	75.0	(2)	(2)	(2)	3.5	3.8	3.8	2.8	2.9	2.9
61 Tampa—St. Petersburg	541.5	554.9	555.2	(2)	(2)	(2)	40.1	40.1	39.9	76.0	76.1	76.6
62 West Palm Beach—Boca Raton	207.3	217.2	217.0	(2)	(2)	(2)	21.2	21.4	21.5	28.7	29.1	28.8

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			
JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	
71.3	71.8	71.1	274.3	278.8	270.9	58.2	58.8	59.0	199.0	207.7	208.2	295.1	303.7	301.9	1
28.9	29.2	29.0	84.5	85.7	82.6	22.8	22.8	22.8	65.6	67.5	67.5	56.5	58.0	57.9	2
2.7	2.6	2.6	21.5	22.0	21.3	3.4	3.5	3.5	16.9	17.6	17.6	34.0	35.0	34.9	3
10.7	11.2	10.6	36.5	38.5	36.6	7.0	7.3	7.4	27.0	29.3	28.3	26.6	27.1	27.1	4
4.9	4.8	4.8	23.8	24.1	23.9	6.1	6.3	6.2	19.6	20.5	20.4	29.2	29.5	29.5	5
1.8	1.8	1.8	9.4	10.0	9.8	1.7	1.7	1.7	6.3	6.2	6.1	17.4	18.5	18.1	6
(*)	16.3	16.4	(*)	29.8	28.4	(*)	8.1	8.0	(*)	28.9	28.7	(*)	56.1	55.3	7
(*)	50.7	50.2	(*)	248.9	244.4	(*)	57.8	57.8	(*)	206.8	205.8	(*)	210.2	200.9	8
(*)	30.9	30.5	(*)	165.5	162.2	(*)	45.1	45.1	(*)	132.5	131.7	(*)	105.5	100.7	9
(*)	8.6	8.5	(*)	42.6	41.4	(*)	8.2	8.2	(*)	40.7	40.6	(*)	46.5	44.4	10
(*)	43.2	42.7	(*)	164.4	158.7	(*)	31.2	30.8	(*)	115.6	115.0	(*)	145.2	145.1	11
(*)	4.0	3.8	(*)	16.2	15.5	(*)	2.3	2.3	(*)	9.5	9.4	(*)	11.6	11.3	12
(*)	3.6	3.6	(*)	14.2	14.0	(*)	2.5	2.5	(*)	12.6	12.4	(*)	9.4	9.4	13
(*)	13.7	13.6	(*)	43.3	42.0	(*)	12.6	12.4	(*)	33.6	33.7	(*)	38.6	38.2	14
(*)	4.0	3.9	(*)	5.7	6.5	(*)	1.4	1.4	(*)	4.9	4.9	(*)	6.9	6.9	15
536.5	542.8	538.0	2,250.4	2,350.9	2,268.8	512.0	626.8	624.4	2,110.8	2,210.1	2,192.2	1,755.8	1,784.5	1,776.9	16
26.7	28.6	28.5	196.9	217.7	203.9	55.4	58.2	58.4	166.1	176.4	174.5	103.7	111.2	109.8	17
7.5	8.0	8.0	33.1	35.1	33.9	4.7	4.8	4.9	22.9	24.0	24.2	31.6	33.6	33.4	18
10.6	11.1	10.7	47.2	51.0	49.3	10.8	11.1	11.2	35.2	37.4	37.0	40.3	41.6	41.1	19
198.9	197.4	196.8	819.4	850.2	823.8	230.8	234.9	233.1	823.1	847.0	840.3	483.9	503.3	499.1	20
3.7	3.8	3.7	21.7	22.8	21.7	3.3	3.4	3.4	16.2	17.1	17.0	16.5	17.5	17.5	21
6.3	6.7	6.4	35.7	37.3	36.4	7.4	7.5	7.5	29.9	31.7	31.8	37.2	38.5	38.2	22
24.8	26.1	25.7	106.3	111.8	109.0	18.9	18.6	18.6	89.8	92.4	92.2	99.6	102.7	102.5	23
21.5	21.9	21.6	93.3	98.7	95.6	21.6	22.9	22.9	71.0	75.1	73.9	139.6	142.2	142.1	24
4.8	4.9	4.8	21.8	23.3	22.5	4.3	4.4	4.4	19.0	19.4	19.3	23.7	23.9	24.3	25
28.8	28.1	28.1	147.9	152.5	148.5	38.4	39.1	39.0	144.6	151.4	151.5	139.8	144.5	144.5	26
128.5	130.8	130.2	358.6	373.4	364.3	142.6	147.7	147.0	340.5	355.8	352.1	292.8	294.4	294.8	27
20.9	22.0	21.4	125.3	135.1	131.9	26.8	27.9	28.0	146.9	154.5	155.8	80.1	83.6	83.9	28
4.7	5.1	5.0	29.4	31.5	30.1	5.7	5.7	5.7	33.1	34.6	34.5	24.3	24.6	24.9	29
4.2	4.6	4.4	22.0	23.4	23.0	5.7	5.7	5.7	17.6	18.4	18.3	20.0	20.6	20.7	30
7.7	8.0	7.9	26.8	29.0	27.7	5.0	5.1	5.1	22.8	24.4	24.5	26.9	27.4	27.6	31
4.3	4.8	4.6	20.6	22.0	21.1	3.3	3.3	3.3	18.9	19.3	19.4	35.1	35.9	35.7	32
77.9	80.8	80.6	301.3	313.3	307.0	75.7	77.4	77.5	246.6	256.8	257.2	238.0	244.9	238.1	33
55.0	57.0	56.7	190.7	193.5	194.3	53.0	54.6	54.6	161.7	168.4	168.0	133.7	138.4	133.8	34
(*)	61.6	61.1	(*)	310.6	297.9	(*)	104.0	105.6	(*)	291.6	288.8	(*)	185.0	183.8	35
(*)	6.4	6.3	(*)	39.3	36.1	(*)	7.5	7.3	(*)	35.4	33.6	(*)	16.9	17.2	36
(*)	14.1	13.8	(*)	85.9	82.6	(*)	62.6	62.5	(*)	75.9	74.7	(*)	55.0	54.7	37
(*)	3.3	3.2	(*)	11.4	10.8	(*)	1.8	1.8	(*)	10.7	10.8	(*)	6.8	6.7	38
(*)	16.2	16.0	(*)	42.8	41.5	(*)	11.0	10.8	(*)	50.3	48.9	(*)	25.5	26.7	39
(*)	4.2	4.2	(*)	24.6	24.0	(*)	7.7	7.6	(*)	26.8	26.0	(*)	10.4	10.3	40
(*)	3.2	3.0	(*)	16.1	15.6	(*)	3.5	3.5	(*)	18.6	19.2	(*)	11.2	11.1	41
12.1	12.4	12.1	54.5	57.5	54.9	11.7	11.9	11.9	45.8	48.0	47.1	44.4	45.2	44.1	42
11.7	11.9	11.8	47.2	49.4	47.3	11.0	11.1	11.1	41.4	42.7	42.0	36.3	37.1	36.2	43
25.8	25.6	25.5	62.5	66.3	64.2	34.7	36.1	35.2	174.7	183.2	182.3	276.9	276.7	273.4	44
67.1	69.2	67.5	295.2	313.9	303.0	87.9	91.9	91.1	408.1	430.0	428.7	551.0	553.4	548.2	45
215.7	226.7	224.4	926.2	986.3	973.1	245.2	261.3	262.1	792.2	848.4	849.5	610.5	628.6	630.1	46
1.5	1.6	1.5	11.9	12.2	11.9	2.8	2.9	2.9	8.0	8.4	8.6	8.1	8.8	8.1	47
3.1	3.2	3.3	21.0	21.7	21.7	4.2	4.4	4.5	19.5	20.0	20.2	13.6	14.4	14.3	48
16.7	17.1	17.2	103.3	102.2	101.7	28.3	28.6	29.0	82.2	85.4	84.2	44.2	47.7	48.0	49
3.6	3.8	3.8	20.1	19.5	19.1	5.6	6.1	6.0	13.7	13.9	14.0	10.9	10.9	10.9	50
1.5	1.7	1.7	13.9	14.0	14.1	2.7	2.7	2.7	10.5	11.6	11.6	30.1	28.0	28.0	51
23.7	24.4	24.3	74.3	77.0	75.8	27.2	27.4	27.3	59.9	63.8	63.8	53.9	54.9	54.5	52
5.1	5.1	5.2	29.9	30.3	30.2	6.4	6.5	6.5	22.7	22.9	23.0	17.3	17.0	17.0	53
4.5	4.5	4.6	21.3	22.1	21.7	3.9	4.0	3.9	24.0	24.7	24.6	18.4	19.0	19.0	54
70.4	73.1	73.1	188.1	190.8	188.3	51.4	54.0	53.8	176.8	179.8	179.6	94.2	97.0	97.4	55
15.0	15.0	14.8	76.9	78.4	77.7	18.7	20.0	19.9	73.3	79.7	80.2	41.6	42.2	41.6	56
2.1	2.0	1.8	7.9	8.5	8.4	1.6	1.8	1.7	5.4	6.0	6.0	8.4	8.7	8.8	57
4.9	5.0	5.2	22.2	22.5	21.9	4.3	4.3	4.3	19.7	21.2	21.6	24.9	26.2	26.4	58
3.0	3.1	3.0	21.1	23.8	21.1	5.9	6.2	6.4	17.1	18.3	18.6	9.9	10.3	10.3	59
2.3	2.4	2.3	14.9	14.6	14.3	3.4	3.4	3.3	12.2	12.8	13.0	33.6	35.5	35.4	60
29.7	30.6	30.7	149.5	151.5	150.4	38.3	39.5	39.2	127.8	132.6	133.8	80.1	84.5	84.6	61
8.1	8.6	8.7	53.4	55.2	54.9	17.2	18.2	18.1	49.7	53.2	53.6	29.0	31.5	31.4	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

	State and area	Total			Mining			Construction			Manufacturing		
		JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
1	GEORGIA ¹	2,126.7	2,176.2	2,154.9	7.7	7.7	7.6	103.0	103.7	101.6	522.9	518.7	515.7
2	Albany.....	43.7	44.5	44.3	(2)	(2)	(2)	2.7	3.1	3.1	11.2	10.5	10.5
3	Atlanta.....	945.5	977.4	963.0	(2)	(2)	(2)	44.4	43.7	41.3	141.4	145.5	144.0
4	Augusta.....	122.5	124.6	122.8	(2)	(2)	(2)	5.9	5.4	5.0	36.2	35.8	35.6
5	Columbus.....	80.8	80.3	79.4	(2)	(2)	(2)	4.0	3.8	3.9	21.0	21.3	21.2
6	Macon.....	96.6	97.6	97.9	(2)	(2)	(2)	4.8	5.1	5.0	16.1	15.3	15.3
7	Savannah.....	85.1	86.7	86.3	(2)	(2)	(2)	5.3	6.3	6.2	16.6	17.1	16.6
8	HAWAII.....	403.5	407.7	402.8	(2)	(2)	(2)	22.2	24.3	24.3	23.0	22.5	22.1
9	Honolulu.....	333.5	336.0	331.6	(2)	(2)	(2)	17.6	19.9	19.9	16.3	16.0	15.6
10	IDAHO.....	327.9	331.9	322.8	4.6	4.6	4.6	15.8	16.3	14.5	55.8	54.3	54.3
11	Boise City.....	79.4	80.2	79.2	(2)	(2)	(2)	5.4	6.6	6.3	9.0	8.3	8.3
12	ILLINOIS ¹	4,866.7	4,879.4	4,772.2	31.3	32.7	32.7	165.0	181.6	155.8	1,262.2	1,196.3	1,186.6
13	Bloomington—Normal.....	51.9	50.2	49.6	(3)	(3)	(3)	1.5	1.7	1.5	7.4	6.5	6.7
14	Champaign—Urbana—Rantoul.....	76.1	77.7	72.4	(3)	(3)	(3)	1.7	1.5	1.3	7.9	7.6	7.6
15	Chicago—Gary.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
16	Chicago SMSA ²	3,261.2	3,255.7	3,192.2	4.8	4.8	4.8	112.7	115.1	100.3	833.9	813.2	806.0
17	Davenport—Rock Island—Moline.....	160.8	163.4	161.8	(3)	(3)	(3)	6.9	6.9	6.6	46.3	49.6	49.1
18	Decatur.....	54.3	55.5	54.5	(3)	(3)	(3)	2.1	2.2	1.8	20.5	19.3	19.1
19	Kankakee.....	35.1	34.3	33.5	(3)	(3)	(3)	1.6	1.7	1.4	9.8	9.4	9.4
20	Peoria.....	152.9	149.3	145.2	(3)	(3)	(3)	6.5	7.1	6.2	53.4	47.8	46.3
21	Rockford.....	123.0	112.2	114.7	(3)	(3)	(3)	3.0	3.5	3.3	55.2	45.3	48.6
22	Springfield.....	86.1	87.3	86.2	(3)	(3)	(3)	3.1	3.8	3.4	6.9	6.3	6.2
23	INDIANA ¹	2,149.9	2,145.1	2,105.9	9.8	9.8	9.4	88.5	90.0	79.6	688.5	659.2	658.3
24	Anderson.....	(*)	47.4	46.3	(*)	(2)	(2)	(*)	1.0	1.0	(*)	20.4	20.1
25	Elkhart.....	(*)	67.6	66.3	-	-	-	(*)	2.2	1.9	(*)	33.9	33.6
26	Evansville.....	(*)	128.1	125.8	(*)	2.9	3.0	(*)	7.0	6.1	(*)	36.5	35.3
27	Fort Wayne.....	(*)	173.7	170.2	(*)	(2)	(2)	(*)	7.9	7.1	(*)	53.9	53.3
28	Gary Hammond—East Chicago.....	(*)	251.0	248.1	(*)	(2)	(2)	(*)	14.7	14.1	(*)	93.1	93.0
29	Indianapolis.....	(*)	537.8	528.4	(*)	(2)	(2)	(*)	23.2	20.4	(*)	122.7	122.8
30	Lafayette—West Lafayette.....	(*)	59.2	57.6	(*)	(2)	(2)	(*)	2.5	2.0	(*)	11.5	11.2
31	Muncie.....	(*)	50.1	49.5	(*)	(2)	(2)	(*)	1.4	1.2	(*)	13.0	13.1
32	South Bend.....	(*)	107.9	106.9	(*)	(2)	(2)	(*)	4.7	4.6	(*)	30.2	30.1
33	Terre Haute.....	(*)	64.4	62.7	(*)	1.4	1.3	(*)	3.8	3.2	(*)	15.4	15.4
34	IOWA.....	1,111.3	1,097.0	1,071.5	2.0	2.1	1.6	46.3	42.6	36.5	259.9	238.0	236.6
35	Cedar Rapids.....	87.1	83.7	82.2	(2)	(2)	(2)	3.8	3.3	3.1	30.3	26.9	26.9
36	Des Moines.....	180.8	178.8	177.8	(2)	(2)	(2)	6.8	6.5	6.3	26.6	24.2	24.5
37	Dubuque.....	45.1	43.0	41.8	(2)	(2)	(2)	1.4	1.3	1.1	17.2	14.6	14.1
38	Sioux City.....	48.5	48.8	48.0	(2)	(2)	(2)	2.1	2.2	1.7	9.1	9.0	9.1
39	Waterloo—Cedar Falls.....	67.8	66.7	65.0	(2)	(2)	(2)	2.6	2.4	2.1	25.0	22.7	22.6
40	KANSAS.....	948.3	956.8	940.0	14.6	15.6	15.8	44.5	43.0	39.9	202.1	185.9	185.3
41	Lawrence.....	28.2	29.0	28.5	(3)	(3)	(3)	1.3	.9	.8	4.7	4.8	4.8
42	Topeka.....	85.7	85.4	84.5	.2	.1	.1	3.4	3.5	3.2	11.3	9.6	9.7
43	Wichita.....	205.4	207.3	204.9	2.4	3.1	3.2	9.6	9.6	9.3	67.5	63.8	63.6
44	KENTUCKY ¹	1,205.0	1,222.3	1,199.9	52.6	51.8	51.7	51.8	57.9	48.1	290.4	273.8	274.6
45	Lexington—Fayette.....	142.3	144.8	140.3	(2)	(2)	(2)	6.0	4.9	3.7	31.6	30.1	29.7
46	Louisville.....	390.7	390.6	384.4	(2)	(2)	(2)	16.2	15.4	14.2	104.3	99.8	100.9
47	Owensboro.....	31.2	30.7	30.8	.9	.9	.9	1.8	2.0	2.0	7.2	6.8	6.8
48	LOUISIANA ¹	(*)	1,616.9	1,603.4	(*)	90.6	91.4	(*)	148.3	144.8	(*)	218.4	215.5
49	Alexandria.....	(*)	52.9	52.2	(*)	(2)	(2)	(*)	4.1	4.0	(*)	5.8	5.6
50	Baton Rouge.....	(*)	209.6	208.2	(*)	1.5	1.5	(*)	24.8	24.3	(*)	26.2	26.3
51	Lafayette.....	(*)	83.3	82.7	(*)	16.4	16.9	(*)	5.9	5.4	(*)	4.5	4.3
52	Lake Charles.....	(*)	67.4	65.8	(*)	2.2	2.3	(*)	9.1	8.3	(*)	13.7	13.6
53	Monroe.....	(*)	51.3	50.4	(*)	.5	.5	(*)	3.2	3.1	(*)	7.8	7.9
54	New Orleans.....	(*)	504.8	500.5	(*)	17.9	17.8	(*)	30.8	30.6	(*)	54.4	54.2
55	Shreveport.....	(*)	150.1	148.4	(*)	5.8	5.5	(*)	10.1	10.2	(*)	27.3	26.8
56	MAINE ¹	405.6	421.2	409.6	(2)	(2)	(2)	16.8	19.8	15.7	114.5	114.4	113.5
57	Lewiston—Auburn.....	(*)	35.6	34.8	(*)	(2)	(2)	(*)	1.2	1.0	(*)	12.0	11.7
58	Portland.....	(*)	94.0	92.3	(*)	(2)	(2)	(*)	3.7	3.4	(*)	18.8	18.9
59	MARYLAND.....	1,666.1	1,716.8	1,665.6	(2)	(2)	(2)	102.3	101.8	88.4	244.7	235.0	233.8
60	Baltimore.....	941.8	963.9	942.2	(2)	(2)	(2)	48.9	51.5	45.8	165.9	159.2	158.0

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	
136.8	139.7	139.6	494.1	509.5	491.2	110.0	113.0	112.8	332.9	348.0	348.1	422.5	435.8	438.2	1
2.1	2.2	2.1	9.5	13.0	9.8	1.9	1.9	1.9	6.1	6.4	6.4	10.2	10.5	10.5	2
83.2	87.0	85.9	262.9	272.1	259.2	65.7	69.2	69.1	190.6	199.0	200.5	157.2	160.9	163.0	3
4.2	4.4	4.4	22.6	24.2	23.1	4.6	4.5	4.5	17.3	18.5	18.4	31.6	31.8	31.9	4
3.4	3.4	3.4	16.8	16.4	15.5	5.3	5.5	5.5	10.9	10.8	10.9	19.3	19.0	18.9	5
4.8	4.5	4.4	19.9	20.2	19.6	5.7	5.8	5.9	16.5	16.7	17.4	28.7	30.0	30.3	6
9.2	8.3	8.8	19.5	20.0	19.7	4.0	4.1	4.1	14.8	15.1	15.1	15.7	15.9	15.7	7
30.8	31.0	31.0	106.8	105.8	103.2	30.7	33.5	33.5	103.8	100.1	101.0	86.2	90.5	87.7	8
25.6	25.7	25.7	89.4	87.8	85.6	26.6	29.3	29.3	84.6	80.3	81.2	73.4	77.0	74.3	9
20.1	20.5	20.3	81.3	83.2	80.2	23.5	23.3	23.3	59.2	60.6	59.3	67.6	69.1	66.3	10
5.2	5.1	5.2	21.2	20.6	20.2	8.1	7.8	7.8	14.7	15.0	14.8	15.8	16.8	16.6	11
283.6	283.3	282.2	1,144.6	1,162.4	1,116.0	308.3	312.6	310.6	919.2	953.7	944.5	752.5	756.8	743.8	12
3.1	3.1	3.0	12.3	12.7	12.2	7.7	7.5	7.6	8.5	8.1	8.0	11.4	10.6	10.6	13
2.6	2.6	2.6	19.3	20.1	19.0	2.6	2.6	2.6	11.8	11.1	11.0	30.2	32.2	28.3	14
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	15
192.1	194.0	195.5	769.2	771.0	743.9	219.7	222.3	221.5	650.7	652.7	647.6	478.1	482.6	472.6	16
7.5	6.8	6.8	40.8	41.3	40.6	7.2	7.3	7.3	25.0	24.3	24.5	27.1	27.2	26.9	17
5.0	5.3	5.3	10.4	12.4	11.9	2.8	2.7	2.7	8.4	8.7	8.7	5.0	4.8	4.9	18
1.4	1.5	1.4	8.1	7.0	6.7	1.1	1.1	1.1	6.0	6.4	6.3	7.1	7.2	7.2	19
7.9	7.9	8.0	35.2	36.0	34.7	7.2	7.2	7.2	25.5	25.8	25.5	17.2	17.5	17.3	20
5.2	4.5	4.4	25.3	25.2	24.5	4.2	4.2	4.2	17.6	17.2	17.3	12.5	12.3	12.4	21
5.1	4.7	4.7	19.4	19.6	19.0	6.7	6.7	6.7	16.8	17.7	17.9	28.0	28.4	28.2	22
108.1	101.4	100.5	478.6	486.0	468.0	101.0	101.7	101.3	329.5	337.6	332.9	345.9	359.3	355.9	23
(*)	1.4	1.3	(*)	9.5	9.1	(*)	1.6	1.6	(*)	7.3	7.2	(*)	6.2	6.0	24
(*)	2.0	1.9	(*)	13.5	13.0	(*)	2.1	2.1	(*)	8.8	8.7	(*)	5.1	5.1	25
(*)	7.2	7.2	(*)	31.5	30.4	(*)	4.6	4.6	(*)	25.4	25.2	(*)	13.0	13.0	26
(*)	10.6	10.6	(*)	43.3	41.7	(*)	10.5	10.4	(*)	29.1	28.7	(*)	18.4	18.4	27
(*)	11.5	11.4	(*)	52.0	50.8	(*)	9.3	9.2	(*)	37.7	37.2	(*)	32.7	32.4	28
(*)	31.6	30.7	(*)	136.5	131.5	(*)	38.5	38.3	(*)	95.7	95.0	(*)	89.6	89.7	29
(*)	1.5	1.5	(*)	11.5	11.1	(*)	2.5	2.5	(*)	9.3	9.2	(*)	20.4	20.1	30
(*)	2.0	2.0	(*)	12.5	12.0	(*)	1.5	1.5	(*)	8.2	8.0	(*)	11.5	11.7	31
(*)	4.2	4.2	(*)	25.8	26.5	(*)	5.4	5.4	(*)	23.8	23.5	(*)	12.8	12.6	32
(*)	3.5	3.5	(*)	16.2	15.5	(*)	2.1	2.1	(*)	9.4	9.4	(*)	12.6	12.3	33
56.2	54.7	53.9	279.1	284.7	272.5	56.9	57.8	57.5	204.6	208.7	206.5	206.2	208.4	206.4	34
3.9	3.8	3.8	19.5	19.6	18.6	4.4	4.3	4.3	15.3	15.8	15.6	9.8	10.0	10.0	35
11.7	11.2	11.1	48.2	48.1	47.1	20.7	20.5	20.7	38.8	38.6	38.9	28.1	29.5	29.3	36
1.7	1.6	1.6	9.3	9.6	9.1	1.3	1.3	1.3	10.2	10.5	10.5	4.0	4.1	4.1	37
3.9	3.8	3.7	12.6	12.9	12.5	2.8	2.9	2.9	11.6	11.8	11.8	6.3	6.2	6.2	38
2.6	2.6	2.6	14.1	14.4	14.0	2.1	2.1	2.1	10.5	11.0	10.7	10.9	11.7	11.1	39
64.1	64.0	63.5	224.3	234.4	226.5	46.3	47.3	47.1	166.3	173.6	172.0	186.1	193.0	189.9	40
1.4	1.3	1.3	5.4	5.0	5.8	.8	.8	.8	4.0	4.1	4.2	10.6	11.1	10.8	41
7.4	7.4	7.4	18.9	19.3	18.9	5.9	6.4	6.3	15.9	17.2	17.3	21.7	21.9	21.6	42
10.7	10.7	10.7	44.4	45.4	45.3	9.1	9.2	9.1	37.7	38.9	38.7	24.0	25.4	25.0	43
68.4	68.7	67.3	260.7	270.8	267.4	51.4	52.0	51.9	202.4	209.6	204.6	227.3	237.7	234.3	44
7.1	7.5	7.5	32.2	34.5	33.1	7.2	7.6	7.6	25.8	26.6	26.7	32.4	33.7	32.0	45
24.6	23.4	23.0	88.4	90.8	86.3	22.9	23.3	23.0	74.5	78.0	76.8	59.8	59.8	60.2	46
2.3	2.4	2.4	7.1	7.4	6.9	1.2	1.3	1.3	5.9	5.7	5.5	4.8	4.2	4.9	47
(*)	125.6	124.5	(*)	367.8	360.9	(*)	75.4	75.1	(*)	276.2	275.2	(*)	314.6	316.0	48
(*)	2.5	2.4	(*)	11.5	11.3	(*)	2.9	2.8	(*)	10.8	10.8	(*)	15.3	15.3	49
(*)	11.3	11.2	(*)	47.1	45.3	(*)	11.2	11.2	(*)	34.0	34.2	(*)	53.5	54.2	50
(*)	6.0	6.0	(*)	21.3	20.8	(*)	2.9	2.7	(*)	15.0	15.2	(*)	11.3	11.4	51
(*)	3.8	3.8	(*)	15.1	14.5	(*)	2.7	2.7	(*)	9.8	9.7	(*)	11.0	10.9	52
(*)	2.8	2.8	(*)	14.0	13.4	(*)	3.9	3.9	(*)	8.0	8.0	(*)	11.1	10.8	53
(*)	51.6	51.8	(*)	128.6	126.0	(*)	30.5	30.4	(*)	111.6	110.5	(*)	79.4	79.2	54
(*)	10.4	10.4	(*)	36.6	35.7	(*)	7.1	7.2	(*)	27.9	27.8	(*)	24.9	24.8	55
18.3	18.8	18.7	84.1	90.1	85.1	16.1	16.5	16.5	73.3	77.2	76.8	82.5	85.4	83.3	56
(*)	1.2	1.3	(*)	8.7	8.3	(*)	1.6	1.6	(*)	7.6	7.6	(*)	3.3	3.3	57
(*)	5.3	5.3	(*)	25.5	24.9	(*)	7.5	7.6	(*)	19.6	19.4	(*)	13.6	12.8	58
86.7	87.8	84.1	398.3	426.8	407.3	88.3	93.9	92.1	345.4	363.7	356.2	400.4	407.8	403.7	59
58.8	59.1	57.8	213.5	221.7	212.9	55.7	58.6	58.2	187.2	201.8	199.9	211.8	212.0	209.6	60

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

	State and area	Total			Mining			Construction			Manufacturing		
		JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
1	MASSACHUSETTES	2,609.3	2,696.9	2,636.4	(2)	(2)	(2)	74.8	81.6	72.0	674.0	662.3	653.6
2	Boston	1,465.9	1,508.6	1,479.0	(2)	(2)	(2)	40.7	43.3	38.8	290.3	287.0	285.1
3	Brockton	58.0	59.4	57.9	(2)	(2)	(2)	1.6	1.6	1.5	12.6	13.0	13.1
4	Fall River	57.5	57.2	(*)	(2)	(2)	(*)	1.5	1.4	(*)	20.8	19.6	(*)
5	Lawrence—Haverhill	107.0	111.1	109.3	(2)	(2)	(2)	2.6	2.8	2.2	41.8	43.7	43.4
6	Lowell	75.0	78.2	(*)	(2)	(2)	(*)	2.6	2.8	(*)	27.8	28.8	(*)
7	New Bedford	65.2	64.1	(*)	(2)	(2)	(*)	1.5	1.4	(*)	26.5	24.9	(*)
8	Springfield—Chicopee—Holyoke	229.8	232.0	223.4	(2)	(2)	(2)	5.9	5.7	4.9	68.5	63.4	62.4
9	Worcester	163.9	167.8	163.7	(2)	(2)	(2)	4.3	4.9	4.4	49.2	47.3	46.7
10	MICHIGAN	3,506.1	3,535.9	(*)	13.0	13.0	(*)	117.4	119.1	(*)	1,055.5	1,028.1	(*)
11	Ann Arbor	136.8	141.2	(*)	(2)	(2)	(*)	2.4	2.7	(*)	42.5	43.8	(*)
12	Battle Creek	64.9	64.1	(*)	(2)	(2)	(*)	1.6	1.8	(*)	21.8	20.2	(*)
13	Bay City	34.2	34.7	(*)	(2)	(2)	(*)	1.2	1.2	(*)	10.1	9.8	(*)
14	Detroit	1,724.3	1,717.9	(*)	1.2	1.2	(*)	53.3	50.3	(*)	526.3	500.7	(*)
15	Flint	193.1	195.5	(*)	(2)	(2)	(*)	5.5	7.6	(*)	77.7	76.6	(*)
16	Grand Rapids	264.8	273.9	(*)	(2)	(2)	(*)	12.0	11.9	(*)	92.5	91.3	(*)
17	Jackson	53.2	52.0	(*)	(2)	(2)	(*)	1.7	1.0	(*)	16.0	14.8	(*)
18	Kalamazoo—Portage	110.0	110.3	(*)	(2)	(2)	(*)	4.0	3.5	(*)	34.4	32.7	(*)
19	Lansing—East Lansing	194.4	190.1	(*)	(2)	(2)	(*)	5.3	6.1	(*)	42.9	41.0	(*)
20	Muskegon—Norton Shores—Musk. Hghts.	60.1	60.5	(*)	(2)	(2)	(*)	2.6	2.1	(*)	21.3	20.2	(*)
21	Saginaw	88.0	87.4	(*)	(2)	(2)	(*)	2.4	2.0	(*)	22.7	31.5	(*)
22	MINNESOTA	1,744.6	1,769.7	1,724.2	16.0	14.2	13.7	68.2	68.4	59.1	379.8	364.6	362.5
23	Duluth—Superior	60.2	61.0	58.9	(2)	(2)	(2)	2.2	1.7	1.5	7.8	8.1	8.1
24	Minneapolis—St. Paul	1,075.9	1,108.3	1,085.4	(2)	(2)	(2)	41.1	40.0	35.8	251.8	244.0	244.7
25	Rochester	49.4	50.2	49.7	(3)	(3)	(3)	1.7	1.6	1.4	10.1	10.0	10.1
26	St. Cloud	54.0	56.1	54.9	(2)	(2)	(2)	2.3	2.7	2.4	12.4	11.9	12.2
27	MISSISSIPPI	830.7	838.8	826.4	9.7	11.0	11.0	40.5	43.3	39.2	228.5	219.7	218.7
28	Jackson	147.4	148.4	146.3	1.2	1.5	1.6	7.3	7.1	6.8	19.5	19.1	19.0
29	MISSOURI	1,956.1	1,965.1	1,925.4	7.7	7.7	7.3	79.7	74.1	63.7	446.1	430.9	429.6
30	Kansas City	626.9	625.9	611.3	.5	.5	.5	25.5	24.0	22.1	125.2	119.4	118.1
31	St. Joseph	36.8	37.6	36.6	(3)	(3)	(3)	1.8	1.9	1.8	9.0	8.9	8.8
32	St. Louis	987.1	986.7	968.6	2.7	2.7	2.6	41.3	41.6	39.0	244.1	235.6	234.8
33	Springfield	85.1	85.7	83.4	(3)	(3)	(3)	3.6	3.4	3.0	19.0	18.0	18.5
34	MONTANA	274.0	280.7	274.9	8.2	7.7	7.7	11.6	13.5	11.7	25.5	23.5	22.9
35	Billings	45.9	47.9	47.1	(2)	(2)	(2)	2.1	2.4	2.0	4.3	4.2	4.2
36	Great Falls	28.8	29.3	29.0	(2)	(2)	(2)	1.3	1.4	1.3	1.7	1.3	1.3
37	NEBRASKA	623.3	634.1	619.8	1.6	1.6	1.4	26.5	28.4	25.7	100.1	96.1	95.9
38	Lincoln	98.5	101.2	97.6	(3)	(3)	(3)	3.8	3.8	3.6	13.9	13.5	13.1
39	Omaha	264.7	265.8	260.1	(3)	(3)	(3)	9.6	10.4	9.3	37.1	35.4	35.2
40	NEVADA	386.3	403.5	396.3	4.9	7.5	7.5	25.4	25.5	24.7	19.3	19.9	19.8
41	Las Vegas	217.4	221.5	219.1	.4	.6	.6	15.2	13.2	13.0	6.7	7.1	7.1
42	Reno	110.1	116.4	112.4	.8	1.1	1.1	6.6	7.3	7.0	8.4	8.4	8.4
43	NEW HAMPSHIRE	376.0	384.3	(*)	.3	.4	(*)	19.9	19.7	(*)	117.3	115.7	(*)
44	Manchester	74.1	74.8	(*)	(3)	(3)	(*)	3.2	3.0	(*)	18.7	17.1	(*)
45	Nashua	61.3	64.9	(*)	(3)	(3)	(*)	2.3	2.3	(*)	28.6	30.4	(*)
46	NEW JERSEY	3,002.0	3,060.5	2,994.9	2.5	2.6	2.4	105.9	110.6	96.2	787.6	770.3	766.3
47	Atlantic City	82.2	96.3	94.8	-	-	-	5.8	5.8	5.4	8.8	8.2	8.2
48	Camden	327.5	331.4	325.2	.1	.1	.1	12.2	12.9	10.8	71.8	68.6	68.5
49	Hackensack	391.3	400.2	391.5	(2)	(2)	(2)	11.6	12.1	10.8	109.6	105.9	104.9
50	Jersey City	227.4	224.9	219.8	-	-	-	3.8	4.1	3.5	69.5	67.1	65.4
51	Long Branch—Asbury Park	153.7	159.7	156.4	(2)	(2)	(2)	5.3	4.7	4.2	24.8	25.2	25.5
52	New Bruns.—Perth Amboy—Sayreville	281.8	288.9	281.0	(2)	(2)	(2)	10.6	11.0	9.7	88.6	89.5	88.9
53	Newark	938.4	950.1	935.5	.9	.9	.9	29.8	31.4	28.1	252.2	245.0	243.1
54	Paterson—Clifton—Passaic	190.5	188.2	184.6	(2)	(2)	(2)	5.6	6.0	5.3	68.6	64.7	64.6
55	Trenton	164.5	166.6	164.2	(2)	(2)	(2)	2.7	2.9	2.4	35.1	33.9	33.8
56	Vineland—Millville—Bridgeton	55.1	54.3	54.3	(2)	(2)	(2)	1.5	1.5	1.4	17.9	16.8	16.9
57	NEW MEXICO	462.9	470.8	463.4	27.5	28.4	28.5	34.2	32.2	30.0	35.1	34.4	34.0
58	Albuquerque	188.3	192.7	189.9	(2)	(2)	(2)	15.1	14.0	13.4	18.5	18.2	18.0
59	NEW YORK	7,086.0	7,269.9	(*)	5.3	6.1	(*)	187.3	202.5	(*)	1,452.7	1,440.0	(*)
60	Albany—Schenectady—Troy	333.4	339.4	(*)	(2)	(2)	(*)	9.5	10.8	(*)	58.6	58.0	(*)
61	Binghamton	116.5	117.9	(*)	(2)	(2)	(*)	3.3	3.6	(*)	42.6	42.1	(*)
62	Buffalo	498.3	507.7	(*)	(2)	(2)	(*)	14.2	15.8	(*)	137.1	135.2	(*)

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	
119.4	124.1	121.7	568.7	509.3	586.0	149.2	148.5	148.6	614.5	659.3	655.7	408.7	411.8	398.8	1
71.8	75.5	75.2	322.9	341.6	328.6	106.2	107.8	108.8	416.8	441.7	434.4	217.2	211.7	208.1	2
4.4	4.5	4.5	16.1	16.2	15.3	2.1	2.0	2.0	9.2	9.7	9.5	12.0	12.4	12.0	3
1.8	1.7	(*)	11.5	11.8	(*)	2.6	2.5	(*)	10.9	11.7	(*)	8.4	8.5	(*)	4
4.7	4.8	4.8	21.2	21.4	20.9	3.9	4.1	4.0	15.5	17.0	16.5	17.3	17.3	17.5	5
3.2	3.3	(*)	15.2	15.1	(*)	2.0	2.0	(*)	11.2	11.9	(*)	13.0	13.3	(*)	6
2.3	2.2	(*)	12.4	12.6	(*)	1.9	2.0	(*)	9.2	9.9	(*)	11.4	11.1	(*)	7
9.1	9.1	9.0	46.3	48.2	46.5	12.2	12.8	12.7	43.0	44.8	43.5	44.8	48.0	44.4	8
6.9	7.1	7.0	36.1	37.9	36.9	9.1	9.1	9.3	30.8	33.6	31.6	27.5	27.9	27.8	9
156.1	152.4	(*)	748.3	775.0	(*)	155.5	156.6	(*)	630.5	650.5	(*)	629.7	642.3	(*)	10
3.6	3.3	(*)	19.7	19.8	(*)	3.6	3.6	(*)	20.7	21.5	(*)	44.3	46.5	(*)	11
2.3	2.4	(*)	11.3	11.6	(*)	3.6	3.6	(*)	11.8	11.9	(*)	12.5	12.6	(*)	12
1.9	1.9	(*)	8.0	8.3	(*)	1.2	1.3	(*)	6.9	7.3	(*)	4.9	4.9	(*)	13
84.3	83.3	(*)	363.9	379.7	(*)	89.7	91.8	(*)	344.2	351.8	(*)	261.3	259.1	(*)	14
7.0	7.0	(*)	40.5	40.8	(*)	5.9	5.6	(*)	30.0	31.4	(*)	26.5	26.5	(*)	15
10.8	10.7	(*)	58.6	63.7	(*)	10.2	10.2	(*)	48.7	52.3	(*)	31.8	33.8	(*)	16
5.1	5.2	(*)	10.9	13.8	(*)	1.5	1.5	(*)	9.5	9.5	(*)	8.5	9.2	(*)	17
4.3	3.9	(*)	21.2	22.6	(*)	3.5	3.5	(*)	22.1	23.1	(*)	20.5	21.0	(*)	18
5.7	5.8	(*)	35.8	36.8	(*)	9.2	9.1	(*)	26.2	26.7	(*)	69.3	64.6	(*)	19
3.1	3.0	(*)	11.2	12.1	(*)	1.8	1.8	(*)	9.6	10.1	(*)	10.4	11.2	(*)	20
4.8	4.9	(*)	17.4	17.8	(*)	3.9	3.8	(*)	14.7	15.2	(*)	12.1	12.2	(*)	21
99.5	100.2	97.5	435.9	446.2	425.9	91.9	95.3	94.7	354.4	372.6	365.9	298.8	308.3	305.0	22
6.2	6.5	6.0	16.4	17.0	15.8	2.3	2.2	2.2	12.6	13.1	12.9	12.6	12.4	12.3	23
64.5	65.5	63.7	265.7	277.5	267.0	67.8	70.8	70.5	229.0	246.4	242.7	156.1	164.2	161.0	24
2.0	1.9	1.9	9.8	13.8	10.4	1.3	1.4	1.4	18.3	18.6	18.6	6.2	5.8	5.8	25
3.4	3.5	3.5	13.1	14.2	13.6	1.8	1.9	1.9	9.2	10.1	9.9	11.7	11.8	11.5	26
40.7	41.4	40.5	162.3	170.5	164.7	32.4	32.9	32.9	120.5	122.5	121.8	195.9	197.5	197.5	27
5.8	9.9	9.8	35.1	35.7	34.3	11.1	11.3	11.1	28.3	29.1	28.8	35.1	34.7	34.8	28
138.2	138.0	135.9	460.8	469.9	452.3	106.2	109.2	109.2	377.9	394.6	393.5	339.5	340.7	333.9	29
54.2	52.1	50.9	160.5	162.9	155.4	43.4	43.9	43.8	125.2	131.1	128.9	92.4	92.0	91.6	30
2.2	2.2	2.1	9.2	9.5	9.1	1.9	2.0	1.9	6.7	6.9	6.8	6.0	6.2	6.1	31
69.7	70.6	69.7	228.6	229.6	220.6	56.1	55.7	55.6	206.6	211.9	210.6	138.0	139.0	135.7	32
6.3	6.4	6.4	22.9	23.6	22.0	3.3	3.4	3.4	18.2	18.6	18.5	11.8	12.3	11.6	33
22.5	23.2	23.2	70.4	72.6	70.3	12.6	12.9	12.8	53.4	55.9	55.4	69.7	71.4	70.9	34
4.6	4.8	4.7	15.6	16.3	16.2	2.2	2.3	2.2	9.5	10.1	9.9	7.6	7.8	8.0	35
1.8	1.8	1.8	9.4	9.7	9.5	2.1	2.0	2.0	6.8	7.0	7.0	5.8	6.1	6.1	36
46.8	47.6	46.8	162.9	165.5	160.7	41.5	42.7	42.8	114.0	118.9	116.8	129.9	133.3	129.7	37
7.2	7.2	7.1	22.1	22.2	21.7	7.0	6.9	6.9	17.0	17.5	17.1	27.5	30.1	28.1	38
24.4	24.1	23.6	68.3	69.2	66.9	24.7	25.2	25.3	58.0	59.2	57.9	42.6	42.3	41.9	39
23.3	24.8	24.8	78.0	83.4	79.9	17.9	18.0	18.0	162.7	165.9	164.6	54.8	58.5	57.0	40
12.9	13.5	13.6	44.3	47.4	45.6	10.3	10.3	10.3	102.6	102.3	102.6	25.0	27.1	26.3	41
7.9	8.3	8.3	24.6	26.2	24.9	6.1	6.3	6.2	40.4	41.8	40.2	15.3	17.0	16.3	42
13.7	14.0	(*)	82.4	86.9	(*)	19.3	20.2	(*)	65.7	67.3	(*)	57.4	60.1	(*)	43
4.9	4.9	(*)	19.0	20.4	(*)	6.3	6.4	(*)	13.6	14.3	(*)	8.4	8.7	(*)	44
1.9	2.0	(*)	12.1	12.8	(*)	1.9	2.0	(*)	8.6	9.2	(*)	5.9	6.2	(*)	45
186.7	180.6	179.3	669.3	696.5	661.1	153.6	155.2	154.1	573.0	609.7	605.6	523.4	535.0	529.9	46
3.7	3.9	3.9	16.8	19.0	18.0	4.9	5.1	5.0	27.4	39.4	39.3	14.8	14.9	15.0	47
15.4	14.3	14.5	85.8	89.6	85.9	16.4	16.5	16.4	64.6	66.4	66.2	61.2	63.0	62.8	48
19.8	19.7	19.2	116.3	121.0	116.2	16.5	17.6	17.7	73.3	77.3	77.0	44.2	46.6	45.7	49
25.9	23.5	23.1	45.4	46.4	44.2	8.0	8.1	8.1	30.8	31.0	31.3	44.0	44.7	44.2	50
6.1	5.9	5.9	36.8	39.7	37.7	7.6	7.7	7.5	38.8	41.5	40.8	34.3	35.0	34.8	51
22.1	23.4	23.3	65.6	68.1	65.2	9.7	9.9	9.9	38.4	42.0	41.6	46.8	45.0	42.4	52
70.8	70.1	69.8	183.2	185.1	179.0	64.4	64.2	64.2	186.6	196.0	194.7	150.5	157.4	155.7	53
6.7	5.7	5.6	42.4	42.6	39.9	8.8	8.9	8.8	31.3	32.7	33.0	27.1	27.6	27.4	54
5.6	5.6	5.5	25.1	25.0	24.9	6.6	6.7	6.7	42.6	44.1	43.6	46.8	47.4	47.3	55
3.0	2.8	2.8	9.5	9.3	9.2	2.0	2.0	2.0	8.3	8.7	8.7	12.9	13.2	13.3	56
28.4	29.1	28.5	105.6	109.4	105.0	21.6	22.0	21.7	88.5	88.7	89.5	122.0	126.6	126.2	57
11.8	12.3	12.1	47.6	49.4	47.7	11.1	11.3	11.2	43.0	45.0	44.8	41.2	42.5	42.7	58
427.7	434.4	(*)	1,450.7	1,520.9	(*)	610.6	629.9	(*)	1,646.8	1,723.6	(*)	1,305.0	1,312.5	(*)	59
15.7	16.1	(*)	68.3	69.4	(*)	15.4	15.7	(*)	69.2	71.6	(*)	96.8	97.8	(*)	60
4.6	4.6	(*)	21.5	22.1	(*)	4.1	4.0	(*)	17.3	18.1	(*)	23.0	23.4	(*)	61
26.9	27.1	(*)	113.5	116.3	(*)	21.9	22.5	(*)	97.3	103.1	(*)	87.5	87.6	(*)	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
NEW YORK—Continued												
1 Elmira	37.0	37.7	(*)	(2)	(2)	(*)	.9	1.1	(*)	11.7	11.2	(*)
2 Monroe County	333.4	343.4	(*)	(2)	(2)	(*)	8.1	8.9	(*)	134.2	136.9	(*)
3 Nassau—Suffolk	893.4	924.4	(*)	(2)	(2)	(*)	33.2	37.0	(*)	167.5	167.3	(*)
4 New York—Northeastern New Jersey	6,507.0	6,721.3	(*)	3.1	3.1	(*)	175.9	184.9	(*)	1,347.2	1,326.8	(*)
5 New York and Nassau—Suffolk	4,582.7	4,707.0	(*)	1.6	1.8	(*)	120.9	133.1	(*)	752.1	749.1	(*)
6 New York SMSA	3,689.3	3,782.5	(*)	1.4	1.6	(*)	87.7	93.1	(*)	584.6	581.8	(*)
7 New York City	3,252.2	3,329.7	(*)	1.1	1.2	(*)	71.4	74.6	(*)	492.7	489.6	(*)
8 Poughkeepsie	96.0	97.9	(*)	(2)	(2)	(*)	2.4	2.8	(*)	31.7	31.7	(*)
9 Rochester	410.4	420.5	(*)	(2)	(2)	(*)	9.8	11.0	(*)	156.3	157.9	(*)
10 Rockland County	79.9	83.0	(*)	(2)	(2)	(*)	2.4	2.6	(*)	15.7	16.1	(*)
11 Syracuse	256.0	261.5	(*)	(2)	(2)	(*)	9.1	9.2	(*)	58.2	59.6	(*)
12 Utica—Rome	113.1	113.4	(*)	(2)	(2)	(*)	2.2	2.4	(*)	32.1	29.4	(*)
13 Westchester County	345.1	357.8	(*)	(2)	(2)	(*)	13.2	15.2	(*)	74.9	74.8	(*)
14 NORTH CAROLINA	2,371.9	2,416.1	2,380.6	5.2	5.1	4.9	117.7	116.5	109.9	831.6	823.3	820.3
15 Asheville	70.2	70.1	68.9	(2)	(2)	(2)	3.0	3.0	2.8	22.6	21.8	21.6
16 Charlotte—Gastonia	335.9	338.1	334.5	(2)	(2)	(2)	18.0	18.0	17.3	94.6	93.5	93.1
17 Greensboro—Winston-Salem—High Pt.	386.3	389.1	385.1	(2)	(2)	(2)	16.6	16.5	15.9	150.5	148.9	149.5
18 Raleigh—Durham	270.3	274.1	268.9	(2)	(2)	(2)	14.5	12.3	11.9	44.6	44.1	43.9
19 NORTH DAKOTA	238.0	248.1	241.1	6.5	9.0	9.1	14.1	14.0	12.0	16.4	15.1	14.9
20 Fargo—Moorhead	61.4	63.3	61.5	(3)	(3)	(3)	3.3	3.3	2.8	5.1	4.7	4.7
21 OHIO	4,398.1	4,420.1	4,306.6	30.6	31.0	30.7	166.2	174.6	149.8	1,329.5	1,253.3	1,239.0
22 Akron	263.8	263.7	255.6	(*)	(*)	(*)	7.8	7.7	6.4	83.4	77.8	75.8
23 Canton	158.2	156.3	153.5	(*)	(*)	(*)	5.4	5.5	4.6	58.1	54.5	54.5
24 Cincinnati	598.1	610.6	596.7	(*)	(*)	(*)	24.7	26.0	22.8	169.0	163.8	163.0
25 Cleveland	908.4	907.1	886.1	(*)	(*)	(*)	31.9	32.1	27.7	269.4	253.6	251.4
26 Columbus	508.0	526.0	512.0	(*)	(*)	(*)	19.1	20.4	17.3	100.6	96.3	95.2
27 Dayton	357.7	361.0	352.4	(*)	(*)	(*)	12.7	13.3	11.2	104.4	99.5	98.7
28 Toledo	293.7	299.7	291.0	(*)	(*)	(*)	11.5	13.3	11.8	78.3	77.1	75.8
29 Youngstown—Warren	208.8	199.1	194.9	(*)	(*)	(*)	6.5	7.2	6.3	77.6	65.2	65.3
30 OKLAHOMA	(*)	1,159.6	1,150.8	(*)	75.3	78.0	(*)	56.8	55.4	(*)	190.2	189.9
31 Oklahoma City	(*)	410.1	406.9	(*)	18.8	19.2	(*)	19.8	19.7	(*)	55.0	55.2
32 Tulsa	(*)	311.4	309.0	(*)	22.2	22.1	(*)	17.6	16.6	(*)	63.2	63.4
33 OREGON	(*)	1,027.8	1,007.8	(*)	2.2	2.0	(*)	38.4	37.0	(*)	209.3	204.7
34 Eugene—Springfield	(*)	102.7	100.7	(*)	(2)	(2)	(*)	4.2	4.0	(*)	19.6	18.9
35 Jackson County	-	-	-	-	-	-	-	-	-	(*)	7.7	6.9
36 Portland	(*)	551.5	543.7	(*)	(2)	(2)	(*)	22.0	21.4	(*)	111.7	110.8
37 Salem	(*)	85.2	84.0	(*)	(2)	(2)	(*)	4.1	3.9	(*)	12.0	11.4
38 PENNSYLVANIA	4,789.0	4,788.7	4,577.9	50.7	48.5	48.0	190.5	194.4	168.8	1,374.3	1,318.3	1,309.4
39 Allentown—Bethlehem—Easton	263.2	263.3	258.4	(2)	(2)	(2)	9.2	9.4	8.4	110.9	108.8	107.7
40 Altoona	54.0	52.8	50.5	(2)	(2)	(2)	3.0	2.7	2.5	13.7	12.5	11.2
41 Delaware Valley	1,592.8	1,618.1	1,574.8	(2)	(2)	(2)	61.4	65.4	59.0	381.0	371.5	369.3
42 Erie	115.2	114.0	113.0	(2)	(2)	(2)	3.0	3.1	2.9	43.2	40.1	40.4
43 Harrisburg	214.9	217.3	214.6	(2)	(2)	(2)	7.6	7.5	6.3	43.4	43.1	42.8
44 Johnstown	89.8	86.1	85.3	9.4	7.9	7.9	2.9	2.6	2.3	20.3	17.8	17.9
45 Lancaster	152.2	151.2	147.7	(2)	(2)	(2)	7.6	7.3	6.3	60.3	57.4	57.1
46 Northeast Pennsylvania	239.9	242.1	238.6	1.1	1.2	1.1	11.4	11.6	10.2	73.3	72.2	72.6
47 Philadelphia SMSA	1,920.4	1,949.6	1,899.5	(2)	(2)	(2)	73.6	78.2	69.8	452.9	440.1	437.5
48 Philadelphia City	797.0	813.3	798.1	(2)	(2)	(2)	18.5	21.6	20.5	142.3	140.6	139.5
49 Pittsburgh	941.3	943.8	929.5	10.9	10.3	10.3	43.6	42.8	38.7	246.5	240.7	240.9
50 Reading	139.9	142.6	139.1	(2)	(2)	(2)	5.3	5.3	4.6	55.0	54.0	53.7
51 Scranton	86.1	88.2	86.7	(2)	(2)	(2)	2.3	2.5	2.1	28.2	29.1	28.8
52 Wilkes-Barre—Hazleton	126.2	124.1	122.2	1.0	1.1	1.1	7.9	7.6	6.7	40.1	37.9	38.4
53 Williamsport	46.7	46.6	46.1	(2)	(2)	(2)	1.5	1.4	1.3	16.7	16.0	16.0
54 York	156.8	156.4	154.3	(2)	(2)	(2)	7.0	6.9	6.5	68.0	66.0	65.8
55 RHODE ISLAND	392.0	404.3	392.7	(2)	(2)	(2)	11.9	12.9	11.3	129.1	128.9	126.2
56 Providence—Warwick—Pawtucket	402.0	412.5	400.2	(2)	(2)	(2)	12.1	13.2	11.5	144.1	142.7	139.3
57 SOUTH CAROLINA	1,177.4	1,195.5	1,175.7	1.9	1.9	1.9	72.2	71.9	69.0	399.4	389.8	387.8
58 Charleston—North Charleston	146.9	149.3	148.4	(2)	(2)	(2)	12.6	10.5	10.9	20.0	20.1	20.1
59 Columbia	176.2	181.0	179.7	(2)	(2)	(2)	8.3	8.5	8.4	27.2	27.3	27.3
60 Greenville—Spartanburg	263.3	265.4	264.0	(2)	(2)	(2)	16.0	17.3	16.9	106.6	103.0	102.8
61 SOUTH DAKOTA	234.2	234.5	231.5	2.7	2.7	2.7	9.5	9.4	8.8	27.5	25.2	25.0
62 Rapid City	31.9	30.7	30.2	(3)	(3)	(3)	2.1	1.9	1.7	3.4	3.0	3.0
63 Sioux Falls	54.2	54.3	53.6	(3)	(3)	(3)	2.5	2.2	1.9	8.0	8.0	8.0

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	
1.4	1.3	(*)	8.3	9.2	(*)	1.0	1.1	(*)	7.0	7.4	(*)	6.8	6.5	(*)	1
10.2	10.2	(*)	60.4	61.9	(*)	14.0	14.3	(*)	65.9	69.4	(*)	40.5	41.7	(*)	2
38.5	39.3	(*)	233.1	248.8	(*)	51.2	51.9	(*)	192.4	202.2	(*)	177.6	177.9	(*)	3
462.7	462.3	(*)	1,398.1	1,449.0	(*)	609.4	620.8	(*)	1,525.4	1,582.3	(*)	1,085.2	1,092.1	(*)	4
317.4	321.5	(*)	946.5	993.5	(*)	507.5	524.5	(*)	1,167.9	1,217.9	(*)	768.7	768.6	(*)	5
278.9	282.2	(*)	713.5	744.7	(*)	456.4	472.6	(*)	975.7	1,015.9	(*)	591.1	590.7	(*)	6
255.7	258.7	(*)	612.2	636.0	(*)	435.6	451.2	(*)	870.8	907.4	(*)	512.6	511.1	(*)	7
2.9	2.9	(*)	15.9	16.4	(*)	2.7	2.7	(*)	17.2	17.8	(*)	23.2	23.6	(*)	8
12.7	12.9	(*)	76.9	79.3	(*)	15.7	15.9	(*)	77.5	80.5	(*)	61.5	63.2	(*)	9
3.5	3.5	(*)	17.5	18.6	(*)	2.5	2.5	(*)	17.2	18.2	(*)	21.2	21.4	(*)	10
14.7	14.9	(*)	56.9	57.9	(*)	15.7	16.5	(*)	51.1	52.9	(*)	49.3	50.5	(*)	11
3.9	3.9	(*)	21.3	22.2	(*)	5.4	5.4	(*)	19.5	21.0	(*)	28.7	29.0	(*)	12
19.2	19.4	(*)	80.8	87.1	(*)	17.7	18.4	(*)	85.1	87.9	(*)	54.1	54.9	(*)	13
116.8	117.2	115.8	469.2	488.0	470.1	93.7	95.5	95.3	331.0	345.0	343.6	406.7	425.5	420.7	14
3.6	3.7	3.7	14.4	15.4	14.6	2.1	2.2	2.0	12.6	12.1	12.2	11.9	11.9	12.0	15
31.1	31.2	30.8	84.0	84.3	82.6	20.8	21.1	21.0	51.0	52.3	52.5	36.4	37.7	37.2	16
21.6	21.1	20.9	78.2	79.1	76.0	17.8	18.0	18.0	55.5	57.5	56.8	46.1	48.0	48.0	17
13.3	13.7	13.7	53.2	53.8	51.5	15.2	15.7	15.5	56.3	57.8	57.7	73.2	76.7	74.7	18
16.3	17.6	17.4	65.4	69.0	65.7	11.3	11.6	11.6	47.9	49.9	49.4	60.1	61.9	61.0	19
3.9	4.1	3.9	18.7	19.5	18.7	3.8	3.8	3.8	13.5	14.3	14.0	13.1	13.6	13.6	20
224.5	224.0	217.9	964.2	995.2	948.9	203.5	207.2	206.3	800.3	830.9	817.6	679.3	703.9	696.4	21
14.4	13.9	13.5	57.1	58.4	55.7	9.4	9.3	9.3	48.8	49.8	49.9	42.5	46.4	44.6	22
7.3	7.0	6.9	33.3	33.7	32.3	6.1	6.3	6.3	28.0	28.9	28.7	19.0	19.2	19.2	23
33.6	34.0	33.1	139.5	145.9	139.4	32.1	33.4	33.0	115.1	121.6	119.5	83.7	85.6	85.6	24
46.5	46.3	44.8	211.0	214.4	205.5	48.9	48.6	48.7	180.6	187.0	184.3	118.5	123.7	122.4	25
24.5	25.1	24.3	121.2	128.6	122.3	37.1	38.9	38.8	101.7	107.6	106.1	103.0	108.3	107.1	26
13.1	13.3	13.2	74.9	75.2	72.0	13.3	13.7	13.7	70.8	74.0	73.3	68.0	70.5	70.0	27
19.9	19.9	19.3	67.2	68.5	65.3	10.6	10.9	10.9	58.9	60.8	60.0	46.8	48.8	47.6	28
9.7	9.1	9.0	45.2	45.8	43.5	7.0	7.1	7.1	36.9	37.6	37.4	25.6	26.6	26.0	29
(*)	67.6	68.3	(*)	282.0	271.3	(*)	57.0	57.2	(*)	203.0	204.1	(*)	227.7	226.6	30
(*)	24.4	24.2	(*)	104.2	99.9	(*)	24.7	24.9	(*)	75.1	75.2	(*)	88.1	88.6	31
(*)	24.0	24.2	(*)	72.7	71.6	(*)	15.6	15.5	(*)	62.8	62.3	(*)	33.3	33.3	32
(*)	60.1	59.4	(*)	259.3	249.1	(*)	67.6	67.2	(*)	189.7	188.7	(*)	201.2	199.7	33
(*)	5.2	5.1	(*)	25.8	25.1	(*)	5.3	5.3	(*)	20.0	19.8	(*)	22.6	22.5	34
(*)	-	-	(*)	-	-	(*)	-	-	(*)	-	-	(*)	-	-	35
(*)	36.0	35.4	(*)	144.5	139.7	(*)	46.0	45.3	(*)	110.5	110.6	(*)	80.8	80.5	36
(*)	2.8	2.7	(*)	13.7	19.0	(*)	5.4	5.4	(*)	14.7	14.5	(*)	26.5	27.1	37
267.1	258.8	255.0	988.8	990.2	951.0	237.7	242.0	242.1	963.4	1,002.7	983.5	716.5	733.8	720.1	38
14.0	14.5	14.1	50.8	52.4	48.4	8.6	8.9	8.8	40.7	41.8	41.6	29.0	29.5	29.4	39
7.2	6.7	6.7	12.3	12.5	12.0	1.5	1.5	1.5	8.7	8.8	8.7	7.6	8.1	7.9	40
83.7	81.3	81.3	334.7	342.9	331.2	109.7	111.2	111.3	379.3	407.7	386.6	243.0	238.1	236.1	41
5.5	5.6	5.6	24.4	25.6	24.9	4.8	4.9	4.9	21.2	21.5	21.3	13.1	13.2	13.0	42
16.9	16.3	16.1	43.5	42.5	41.7	12.5	12.9	13.1	36.8	38.3	38.1	54.2	56.7	56.5	43
6.0	5.7	5.4	16.4	17.0	16.7	4.1	4.0	4.1	15.9	16.3	16.3	14.8	14.8	14.7	44
6.3	6.6	6.4	33.9	34.3	32.8	5.4	5.6	5.6	24.4	25.1	24.7	14.3	14.9	14.8	45
13.1	13.4	13.2	51.1	52.2	50.3	9.5	9.6	9.6	41.7	43.0	42.7	38.6	38.9	38.9	46
99.1	95.6	95.8	420.4	432.6	417.0	126.1	127.8	127.7	444.1	474.2	452.9	304.2	301.1	298.8	47
54.8	52.0	51.9	152.2	155.7	150.7	69.6	69.7	69.8	211.7	227.0	221.2	147.9	145.7	144.5	48
61.8	58.3	57.6	204.7	213.2	202.6	44.6	45.5	45.1	202.5	206.6	206.3	126.7	129.4	128.0	49
6.6	6.7	6.7	27.0	28.3	27.2	6.2	6.3	6.3	23.1	24.0	23.4	16.7	18.0	17.2	50
4.2	4.3	4.3	19.9	20.0	19.5	3.4	3.4	3.4	16.3	17.4	17.3	11.8	11.5	11.3	51
7.1	7.0	7.0	26.3	27.2	25.9	5.3	5.3	5.3	18.7	18.5	18.2	19.7	19.5	19.6	52
2.3	2.2	2.3	9.9	13.5	10.0	2.1	2.1	2.1	7.8	8.1	8.1	6.4	6.3	6.3	53
6.7	7.0	6.7	31.1	31.9	31.0	3.9	4.0	3.9	21.2	21.7	21.7	18.9	18.9	18.7	54
13.1	13.5	13.2	78.9	84.4	80.2	20.6	21.1	20.8	78.8	83.5	81.7	59.6	60.0	59.3	55
13.0	13.5	13.2	80.0	84.9	80.8	20.7	21.1	20.8	76.2	80.7	78.9	55.9	56.4	55.7	56
53.1	54.2	53.9	219.2	229.9	221.2	45.9	47.7	47.3	150.6	157.1	154.4	235.1	243.0	240.2	57
8.2	9.6	9.4	30.9	32.3	31.4	6.1	6.3	6.2	23.2	24.2	24.5	45.9	46.3	45.9	58
9.3	9.5	9.6	38.2	38.3	37.6	13.6	14.2	14.3	26.3	27.1	26.5	53.3	56.1	56.0	59
10.1	10.0	9.9	50.6	53.4	52.3	9.2	9.4	9.4	35.8	37.0	36.9	35.0	35.3	35.8	60
13.4	13.5	13.4	64.4	63.4	61.8	10.9	10.9	11.1	47.9	49.7	49.4	57.9	59.7	59.3	61
1.9	1.9	1.9	9.2	8.5	8.3	1.5	1.5	1.6	6.5	6.8	6.7	7.3	7.1	7.0	62
5.0	4.9	4.8	16.3	16.1	15.8	3.2	3.2	3.3	12.4	13.1	13.1	6.8	6.8	6.7	63

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
1 TENNESSEE ¹	(*)	1,736.8	1,702.1	(*)	9.8	9.6	(*)	73.1	66.4	(*)	506.1	497.8
2 Chattanooga	169.6	167.6	166.1	1.2	1.2	1.1	6.3	6.3	6.2	51.8	49.4	48.9
3 Knoxville	(*)	200.5	199.9	(*)	1.5	1.6	(*)	13.4	10.1	(*)	52.8	52.6
4 Memphis	356.4	359.0	355.2	.2	.1	.1	15.6	15.7	15.1	60.0	59.3	59.0
5 Nashville—Davidson	357.2	358.5	355.7	(2)	(2)	(2)	17.8	16.6	16.4	81.6	78.5	78.9
6 TEXAS ¹	(*)	6,027.2	5,997.8	(*)	250.6	253.8	(*)	427.3	422.1	(*)	1,067.0	1,069.3
7 Amarillo	(*)	75.6	74.9	(*)	(2)	(2)	(*)	4.0	3.9	(*)	10.1	10.1
8 Austin	(*)	245.2	242.0	(*)	(2)	(2)	(*)	13.9	14.2	(*)	30.7	30.5
9 Beaumont—Port Arthur—Orange	(*)	155.5	153.8	(*)	(2)	(2)	(*)	12.1	11.4	(*)	43.5	43.6
10 Corpus Christi	(*)	124.6	122.9	(*)	6.4	6.3	(*)	12.8	12.5	(*)	16.3	16.3
11 Dallas—Fort Worth	(*)	1,497.4	1,482.5	(*)	25.9	25.2	(*)	86.3	86.2	(*)	321.1	320.4
12 El Paso	(*)	163.2	162.8	(*)	(2)	(2)	(*)	7.9	7.4	(*)	36.0	36.1
13 Galveston—Texas City	(*)	71.6	70.6	(*)	(2)	(2)	(*)	4.5	4.2	(*)	12.3	12.3
14 Houston	(*)	1,471.7	1,469.0	(*)	82.7	82.8	(*)	144.3	143.7	(*)	246.9	247.5
15 Lubbock	(*)	90.4	89.6	(*)	(2)	(2)	(*)	4.1	4.3	(*)	12.5	12.5
16 San Antonio	(*)	404.7	401.7	(*)	2.6	2.7	(*)	29.1	28.7	(*)	51.6	51.6
17 Waco	(*)	73.2	72.5	(*)	(2)	(2)	(*)	3.7	3.6	(*)	16.8	16.8
18 Wichita Falls	(*)	53.7	53.1	(*)	3.4	3.4	(*)	2.4	2.4	(*)	9.8	9.8
19 UTAH	542.8	564.4	552.6	18.4	19.8	19.8	29.3	30.1	27.0	87.5	90.7	89.7
20 Salt Lake City—Ogden	384.8	398.5	390.8	7.8	8.0	8.1	20.5	20.1	18.4	60.1	62.1	61.6
21 VERMONT ¹	(*)	203.9	203.1	(*)	.7	.6	(*)	10.0	8.8	(*)	50.4	49.9
22 Burlington ¹⁴	(*)	59.0	57.5	-	-	-	-	-	-	(*)	15.0	15.1
23 Springfield ¹⁴	(*)	14.5	14.3	-	-	-	-	-	-	(*)	6.4	6.4
24 VIRGINIA	2,097.2	2,150.4	2,112.5	23.8	23.6	23.6	124.2	120.9	107.9	414.1	413.5	409.1
25 Bristol	28.1	29.2	28.8	(2)	(2)	(2)	1.2	1.4	1.2	9.7	9.5	9.4
26 Lynchburg	72.6	72.4	71.7	(2)	(2)	(2)	3.4	3.6	3.3	29.6	29.1	29.1
27 Newport News—Hampton	147.8	153.9	151.8	(2)	(2)	(2)	7.1	7.0	6.6	34.1	36.0	35.7
28 Norfolk—Virginia Beach—Portsmouth	284.0	286.0	282.0	(2)	(2)	(2)	16.9	15.3	14.7	29.8	29.2	28.9
29 Northern Virginia ¹⁵	424.5	439.7	433.6	.4	.4	.4	27.3	27.5	25.7	16.9	17.3	17.3
30 Petersburg—Colonial Hghts.—Hopewell	47.2	47.7	46.3	(2)	(2)	(2)	2.7	2.4	2.2	12.0	12.1	11.7
31 Richmond	325.2	329.8	326.9	.4	.4	.4	17.1	16.2	15.8	55.7	56.2	55.8
32 Roanoke	104.1	105.2	103.4	.1	.1	.1	5.8	6.0	5.0	20.8	21.0	20.9
33 WASHINGTON	1,584.5	1,613.9	(*)	2.7	2.6	(*)	89.3	84.4	(*)	303.2	295.0	(*)
34 Seattle—Everett	771.0	800.1	(*)	(2)	(2)	(*)	42.5	41.2	(*)	172.5	176.6	(*)
35 Spokane	126.6	127.5	(*)	(2)	(2)	(*)	5.7	6.3	(*)	17.7	16.8	(*)
36 Tacoma	139.7	141.0	(*)	(2)	(2)	(*)	7.3	6.8	(*)	22.1	22.0	(*)
37 WEST VIRGINIA ¹	(*)	650.1	633.5	(*)	65.9	66.1	(*)	34.8	26.3	(*)	117.1	115.9
38 Charleston	(*)	116.7	114.1	(*)	6.8	6.8	(*)	6.5	5.4	(*)	17.6	17.4
39 Huntington—Ashland	(*)	104.8	103.1	(*)	1.1	1.1	(*)	5.1	3.9	(*)	26.5	26.5
40 Parkersburg—Marietta	(*)	58.3	56.9	(*)	.9	.9	(*)	3.4	2.6	(*)	16.7	16.7
41 Wheeling	(*)	65.6	63.8	(*)	5.4	5.3	(*)	2.8	2.1	(*)	11.8	11.6
42 WISCONSIN ¹	1,926.0	1,959.3	1,913.2	2.1	2.4	1.7	64.9	68.8	61.7	581.9	546.4	543.2
43 Appleton—Oshkosh	125.6	125.9	122.8	(2)	(2)	(2)	5.7	6.3	5.4	49.0	45.5	45.7
44 Eau Claire	45.2	49.3	47.4	(2)	(2)	(2)	1.5	1.9	1.8	8.9	9.0	8.8
45 Green Bay	76.2	78.6	77.3	(2)	(2)	(2)	3.0	3.1	2.7	21.4	21.1	20.8
46 Janesville—Beloit	49.1	52.8	51.5	(2)	(2)	(2)	1.7	2.3	1.9	17.8	20.6	20.5
47 Kenosha	46.2	42.8	41.9	(2)	(2)	(2)	2.8	2.0	1.8	19.8	16.5	16.5
48 La Crosse	43.8	46.7	44.7	(2)	(2)	(2)	1.5	1.6	1.3	11.1	10.7	10.5
49 Madison	164.2	173.7	168.4	(2)	(2)	(2)	6.3	6.6	6.1	20.0	19.6	19.7
50 Milwaukee	679.3	681.9	659.2	(2)	(2)	(2)	19.4	21.2	19.9	219.1	202.4	200.2
51 Racine	71.6	68.6	67.9	(2)	(2)	(2)	1.8	1.8	1.5	32.4	29.2	29.4
52 WYOMING	198.8	207.2	204.8	33.3	36.6	36.5	17.1	19.0	17.4	9.8	11.2	11.0
53 Casper	37.2	41.2	40.1	6.6	7.7	7.1	3.2	3.8	3.5	1.8	1.9	1.7
54 Cheyenne	29.5	29.9	29.2	(2)	(2)	(2)	1.9	2.3	2.1	1.6	1.6	1.6
55 PUERTO RICO ¹	(*)	(*)	(*)	(*)	.9	.9	(*)	36.7	34.1	(*)	(*)	(*)
56 Caguas	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
57 Mayaguez	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
58 Ponce	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
59 San Juan	(*)	(*)	(*)	(*)	(*)	(*)	(*)	3.2	3.0	(*)	(*)	(*)
60 VIRGIN ISLANDS ¹	(*)	36.9	36.3	(*)	(3)	(3)	(*)	3.3	2.9	(*)	3.1	3.0

¹ State and areas, except St. Louis, Missouri (1979 benchmark), revised to 1980 benchmark; not strictly comparable with previously published data.

² Combined with services.

³ Combined with construction.

⁴ Area included in Chicago-Gary Standard Consolidated Statistical Area.

⁵ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

⁶ Subarea of New York—Northeastern New Jersey.

⁷ Subarea of Rochester Standard Metropolitan Statistical Area.

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

⁹ Subarea of New York Standard Metropolitan Statistical Area.

¹⁰ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

**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		
JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
(*)	84.0	81.4	(*)	382.8	367.3	(*)	77.8	77.3	(*)	286.0	280.8	(*)	317.2	321.5
7.2	7.2	7.1	32.7	32.7	32.5	9.5	9.4	9.4	27.2	27.7	27.5	33.7	33.7	33.4
(*)	8.1	8.1	(*)	42.2	41.5	(*)	8.1	8.1	(*)	31.1	31.5	(*)	46.3	46.4
27.5	26.9	26.5	96.5	95.0	96.6	19.2	19.2	19.2	71.5	72.7	72.8	65.9	66.1	65.9
19.2	19.0	19.0	81.7	81.7	80.2	24.3	24.5	24.2	68.4	73.4	72.5	64.2	64.8	64.5
(*)	370.3	370.7	(*)	1,475.8	1,449.3	(*)	347.3	349.6	(*)	1,042.9	1,044.4	(*)	1,046.0	1,038.6
(*)	7.2	7.2	(*)	22.7	22.3	(*)	3.7	3.6	(*)	15.0	15.2	(*)	12.9	12.6
(*)	7.3	7.3	(*)	53.4	51.6	(*)	14.9	14.6	(*)	43.9	44.1	(*)	81.1	79.7
(*)	11.6	11.9	(*)	35.0	34.1	(*)	5.5	5.5	(*)	26.9	26.8	(*)	20.9	20.5
(*)	7.7	7.3	(*)	28.7	28.3	(*)	5.2	5.2	(*)	21.4	21.0	(*)	26.1	26.0
(*)	95.4	94.9	(*)	406.2	396.5	(*)	112.4	112.5	(*)	261.8	260.0	(*)	188.3	185.8
(*)	11.1	11.3	(*)	37.5	39.1	(*)	7.4	7.4	(*)	25.0	24.9	(*)	36.3	36.6
(*)	6.8	6.5	(*)	14.0	13.8	(*)	4.7	4.8	(*)	11.1	11.1	(*)	18.2	17.9
(*)	103.4	104.5	(*)	357.7	352.7	(*)	89.9	90.7	(*)	281.7	281.8	(*)	165.1	165.3
(*)	5.1	5.2	(*)	27.5	26.7	(*)	4.8	4.8	(*)	16.9	17.0	(*)	19.5	19.1
(*)	18.5	18.2	(*)	103.8	98.7	(*)	27.6	27.7	(*)	80.3	79.6	(*)	94.2	94.5
(*)	3.5	3.5	(*)	17.7	17.3	(*)	4.2	4.2	(*)	15.5	15.4	(*)	11.8	11.7
(*)	2.7	2.7	(*)	13.8	13.4	(*)	2.3	2.3	(*)	8.2	8.2	(*)	11.1	10.9
33.6	35.1	34.4	127.6	134.4	128.2	25.8	26.2	26.1	97.5	100.9	100.1	123.2	127.3	127.4
26.7	27.7	27.2	94.8	103.4	95.8	20.7	20.9	20.8	66.9	69.0	68.3	87.5	90.2	90.6
(*)	8.7	8.5	(*)	41.9	41.2	(*)	8.2	8.4	(*)	45.7	48.4	(*)	38.3	37.3
(*)	2.3	2.4	(*)	12.2	11.9	-	-	-	(*)	12.4	12.3	-	-	-
(*)	.7	.7	(*)	2.1	2.0	-	-	-	(*)	2.6	2.6	-	-	-
113.5	115.4	114.5	442.3	464.9	449.0	104.3	106.4	106.1	373.1	389.3	387.3	501.9	516.4	515.0
1.1	1.2	1.2	6.7	7.0	6.7	.9	1.0	1.1	3.5	3.8	3.9	5.0	5.3	5.3
2.8	2.7	2.7	12.3	11.8	11.4	3.4	3.8	3.7	10.8	11.0	11.0	10.3	10.4	10.5
4.9	5.1	5.1	28.3	29.6	28.6	5.1	5.0	4.9	26.5	28.2	27.9	41.8	43.0	43.0
18.9	18.8	18.6	68.7	71.3	68.8	14.6	14.5	14.5	53.1	55.5	55.3	82.0	81.4	81.2
28.7	29.3	29.2	98.5	103.0	100.3	26.4	27.2	27.2	109.1	113.7	113.2	112.2	121.3	120.3
1.6	1.5	1.5	8.2	8.4	8.1	1.3	1.3	1.3	5.9	6.5	6.3	15.5	15.5	15.2
19.5	19.8	19.8	73.7	75.8	73.9	26.8	26.9	26.9	57.0	59.1	59.0	75.0	75.4	75.3
10.0	9.6	9.6	25.7	25.5	25.9	6.3	6.2	6.3	19.3	19.7	19.5	16.1	16.1	16.1
88.8	88.7	(*)	386.4	403.8	(*)	92.2	95.8	(*)	297.2	312.3	(*)	324.7	331.3	(*)
52.1	54.0	(*)	185.1	195.4	(*)	54.4	56.8	(*)	145.5	154.9	(*)	118.9	121.2	(*)
7.8	8.0	(*)	36.2	36.2	(*)	8.0	7.9	(*)	28.0	28.7	(*)	23.2	23.6	(*)
6.5	6.8	(*)	33.3	33.7	(*)	7.2	7.2	(*)	30.2	31.3	(*)	33.1	33.2	(*)
(*)	43.0	42.9	(*)	133.9	130.4	(*)	22.3	22.3	(*)	99.2	97.3	(*)	134.0	132.4
(*)	9.8	9.7	(*)	27.8	26.8	(*)	5.0	5.0	(*)	20.3	20.3	(*)	22.8	22.6
(*)	9.8	9.9	(*)	24.5	23.9	(*)	3.8	3.8	(*)	15.1	15.1	(*)	19.0	19.0
(*)	2.5	2.5	(*)	13.2	12.7	(*)	2.1	2.1	(*)	10.0	10.0	(*)	9.5	9.5
(*)	3.9	3.8	(*)	15.9	15.3	(*)	2.8	2.8	(*)	13.7	13.7	(*)	9.2	9.2
90.7	94.6	91.4	432.2	452.6	428.6	91.7	94.6	94.1	351.5	372.4	369.2	311.0	327.6	323.2
4.3	4.4	4.4	25.4	26.4	24.8	5.2	5.5	5.4	19.9	21.0	20.6	16.1	16.9	16.5
2.6	2.6	2.5	12.2	13.0	12.7	1.5	1.6	1.6	9.4	10.1	10.0	9.0	11.0	9.9
5.6	5.9	5.9	19.5	20.3	19.7	2.4	2.4	2.3	14.5	15.5	15.3	9.8	10.3	10.6
2.0	2.1	2.1	11.3	11.3	10.7	1.3	1.4	1.4	8.5	8.2	8.0	6.4	6.9	6.9
1.3	1.2	1.2	8.0	8.3	7.8	1.1	1.1	1.1	7.7	7.8	7.8	5.6	5.9	5.8
2.4	2.3	2.3	11.3	12.7	12.2	1.1	1.1	1.1	9.7	10.6	10.6	6.8	7.8	6.7
6.2	6.5	6.4	34.9	38.5	34.9	12.5	12.9	12.8	30.2	31.5	31.3	54.1	58.0	57.2
34.6	35.2	34.1	145.5	153.0	143.4	39.1	39.7	39.5	136.5	146.6	144.7	85.1	86.9	87.3
2.3	2.3	2.3	13.2	12.9	12.5	2.2	2.2	2.1	11.2	11.3	11.2	8.6	8.9	8.9
16.6	17.9	18.2	43.5	44.1	42.9	7.3	7.2	7.3	27.8	27.6	28.0	43.4	43.6	43.5
2.6	3.3	3.3	10.4	11.0	10.7	1.7	1.8	1.9	5.5	5.6	5.8	5.4	6.1	6.1
4.4	4.4	4.2	6.9	7.0	6.8	1.6	1.5	1.5	4.6	4.5	4.4	8.5	8.6	8.6
(*)	18.2	18.2	(*)	122.2	116.0	(*)	27.9	27.9	(*)	85.4	85.1	(*)	263.2	262.7
(*)	(*)	(*)	(*)	6.1	5.6	(*)	(*)	(*)	(*)	(*)	(*)	(*)	12.4	12.4
(*)	(*)	(*)	(*)	6.4	5.7	(*)	(*)	(*)	(*)	(*)	(*)	(*)	15.8	15.8
(*)	(*)	(*)	(*)	9.0	8.0	(*)	(*)	(*)	(*)	7.2	7.1	(*)	18.8	18.8
(*)	14.0	14.0	(*)	77.1	73.3	(*)	20.9	20.9	(*)	59.8	59.6	(*)	125.0	124.4
(*)	2.0	2.0	(*)	7.5	7.5	(*)	1.5	1.6	(*)	6.0	6.1	(*)	13.5	13.2

¹¹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

¹² Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

¹³ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

¹⁴ Total includes data for industry divisions not shown separately.

¹⁵ 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 HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
-	TOTAL PRIVATE	\$235.10	\$225.34	\$247.06	\$246.05	\$245.70	\$6.66	\$6.42	\$6.94	\$7.03	\$7.04
-	MINING	396.58	385.39	422.48	427.39	421.15	9.18	8.88	9.58	9.78	9.84
10	METAL MINING	415.53	406.31	455.03	452.50	-	10.26	9.91	10.86	10.93	-
101	Iron ores	428.54	424.11	466.03	431.59	-	10.96	10.55	11.68	11.21	-
102	Copper ores	435.01	434.60	496.32	501.81	-	10.61	10.25	11.28	11.67	-
11, 12	COAL MINING	434.68	437.42	454.21	459.38	-	10.83	10.39	11.16	11.15	-
12	BITUMINOUS COAL AND LIGNITE MINING	435.89	438.68	456.96	460.62	-	10.86	10.42	11.20	11.18	-
13	OIL AND GAS EXTRACTION	388.17	369.45	413.49	421.81	-	8.55	8.21	8.95	9.23	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	399.08	379.76	418.91	440.15	-	9.71	9.24	10.07	10.53	-
138	Oil and gas field services	384.11	365.49	412.04	415.53	-	8.19	7.86	8.62	8.86	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	327.87	300.05	346.81	342.50	-	7.52	7.06	7.90	8.04	-
142	Crushed and broken stone	317.46	294.81	334.80	321.30	-	7.15	6.67	7.44	7.56	-
-	CONSTRUCTION	367.78	335.00	383.99	378.25	357.76	9.94	9.49	10.35	10.42	10.34
15	GENERAL BUILDING CONTRACTORS	333.04	304.50	345.07	338.91	-	9.20	8.75	9.48	9.52	-
152	Residential building construction	311.86	287.39	321.47	317.80	-	8.76	8.33	9.03	9.08	-
153	Operative builders	290.97	265.44	303.60	305.65	-	8.06	7.83	8.25	8.42	-
154	Nonresidential building construction	355.26	323.62	370.26	359.64	-	9.68	9.22	9.98	9.99	-
16	HEAVY CONSTRUCTION CONTRACTORS	369.95	316.20	384.96	379.37	-	9.18	8.50	9.60	9.58	-
161	Highway and street construction	355.42	282.96	344.20	340.05	-	8.69	7.71	8.67	8.48	-
162	Heavy construction, except highway	376.40	328.00	401.79	392.42	-	9.41	8.77	9.97	9.96	-
17	SPECIAL TRADE CONTRACTORS	383.74	356.00	403.33	396.18	-	10.63	10.23	11.05	11.16	-
171	Plumbing, heating, air conditioning	402.70	382.04	425.51	420.73	-	10.71	10.27	11.11	11.16	-
172	Painting, paper hanging, decorating	336.59	316.54	343.97	345.78	-	9.70	9.31	9.97	10.20	-
173	Electrical work	446.37	424.50	476.25	470.34	-	11.84	11.32	12.37	12.41	-
174	Masonry, stonework, and plastering	358.45	322.09	366.52	353.48	-	10.42	9.88	10.78	10.91	-
175	Carpentering and flooring	325.16	300.96	343.00	322.61	-	9.48	9.12	10.00	10.05	-
176	Roofing and sheet metal work	305.97	255.43	317.10	291.54	-	9.30	8.90	9.58	9.59	-
-	MANUFACTURING	288.62	277.01	313.75	308.03	304.94	7.27	6.96	7.69	7.72	7.72
24, 25, 32-39	DURABLE GOODS	311.95	297.82	341.96	332.90	329.18	7.76	7.39	8.24	8.24	8.25
20-23, 26-31	NONDURABLE GOODS	255.06	244.92	273.03	271.35	269.27	6.54	6.28	6.86	6.94	6.94
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	253.22	236.60	268.09	263.93	258.93	6.56	6.21	6.77	6.82	6.85
241	Logging camps and logging contractors	336.21	287.47	327.87	329.49	-	8.71	8.03	8.72	8.81	-
242	Sawmills and planing mills	262.19	247.79	284.72	281.47	-	6.74	6.37	7.03	7.09	-
2421	Sawmills and planing mills, general	275.34	260.24	299.63	295.77	-	7.06	6.69	7.38	7.45	-
2426	Hardwood dimension and flooring	181.89	180.29	197.96	195.72	-	4.70	4.53	4.90	4.93	-
243	Millwork, plywood, and structural members	248.20	237.16	266.80	262.19	-	6.43	6.16	6.67	6.74	-
2431	Millwork	245.88	231.17	266.79	260.55	-	6.37	6.02	6.62	6.75	-
2434	Wood kitchen cabinets	217.09	214.66	238.01	225.94	-	5.82	5.59	6.15	6.09	-
2435	Hardwood veneer and plywood	198.74	190.79	221.96	214.54	-	5.07	4.93	5.31	5.35	-
2436	Softwood veneer and plywood	313.23	303.03	321.05	328.82	-	7.95	7.77	8.19	8.20	-
244	Wooden containers	185.01	180.27	198.98	195.41	-	4.96	4.82	5.25	5.31	-
245	Wood buildings and mobile homes	222.16	209.57	233.13	218.42	-	6.12	5.92	6.25	6.17	-
2451	Mobile homes	219.49	209.10	228.17	212.71	-	6.08	5.89	6.15	6.06	-
249	Miscellaneous wood products	215.32	206.32	231.49	225.04	-	5.41	5.21	5.66	5.64	-
25	FURNITURE AND FIXTURES	208.79	202.37	225.32	217.36	219.84	5.48	5.27	5.69	5.72	5.77
251	Household furniture	192.65	187.45	209.21	200.94	-	5.11	4.92	5.31	5.33	-
2511	Wood household furniture	179.74	176.93	194.13	188.71	-	4.73	4.56	4.89	4.94	-
2512	Upholstered household furniture	201.66	194.40	226.37	208.42	-	5.48	5.24	5.76	5.71	-
2514	Metal household furniture	203.30	197.11	213.79	210.86	-	5.35	5.16	5.51	5.52	-
2515	Mattresses and bedspings	213.93	209.79	221.68	224.25	-	5.72	5.55	5.88	5.98	-
252	Office furniture	232.46	224.36	255.43	247.10	-	5.93	5.68	6.23	6.24	-
253	Public building and related furniture	229.13	219.82	247.23	240.24	-	5.86	5.68	6.15	6.16	-
254	Partitions and fixtures	258.52	250.77	271.75	266.88	-	6.68	6.43	6.95	6.95	-
259	Miscellaneous furniture and fixtures	235.62	224.96	257.84	245.10	-	6.12	5.92	6.43	6.45	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
-	TOTAL PRIVATE	35.3	35.1	35.6	35.0	34.9	-	-	-	-	-
-	MINING	43.2	43.4	44.1	43.7	42.8	-	-	-	-	-
10	METAL MINING	40.5	41.0	41.9	41.4	-	-	-	-	-	-
101	Iron ores	39.1	40.2	39.9	38.5	-	-	-	-	-	-
102	Copper ores	41.0	42.4	44.0	43.0	-	-	-	-	-	-
11, 12	COAL MINING	40.5	42.1	40.7	41.2	-	-	-	-	-	-
12	BITUMINOUS COAL AND LIGNITE MINING	40.5	42.1	40.8	41.2	-	-	-	-	-	-
13	OIL AND GAS EXTRACTION	45.4	45.0	46.2	45.7	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	41.1	41.1	41.6	41.8	-	-	-	-	-	-
138	Oil and gas field services	46.9	46.5	47.8	46.9	-	-	-	-	-	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	43.6	42.5	43.9	42.6	-	-	-	-	-	-
142	Crushed and broken stone	44.4	44.2	45.0	42.5	-	-	-	-	-	-
-	CONSTRUCTION	37.0	35.3	37.1	36.3	34.6	-	-	-	-	-
15	GENERAL BUILDING CONTRACTORS	36.2	34.8	36.4	35.6	-	-	-	-	-	-
152	Residential building construction	35.6	34.5	35.6	35.0	-	-	-	-	-	-
153	Operative builders	36.1	33.9	36.8	36.3	-	-	-	-	-	-
154	Nonresidential building construction	36.7	35.1	37.1	36.0	-	-	-	-	-	-
16	HEAVY CONSTRUCTION CONTRACTORS	40.3	37.2	40.1	39.6	-	-	-	-	-	-
161	Highway and street construction	40.9	36.7	39.7	40.1	-	-	-	-	-	-
162	Heavy construction, except highway	40.0	37.4	40.3	39.4	-	-	-	-	-	-
17	SPECIAL TRADE CONTRACTORS	36.1	34.8	36.5	35.5	-	-	-	-	-	-
171	Plumbing, heating, air conditioning	37.6	37.2	38.3	37.7	-	-	-	-	-	-
172	Painting, paper hanging, decorating	34.7	34.0	34.5	33.9	-	-	-	-	-	-
173	Electrical work	37.7	37.5	38.5	37.9	-	-	-	-	-	-
174	Masonry, stonework, and plastering	34.4	32.6	34.0	32.4	-	-	-	-	-	-
175	Carpentering and flooring	34.3	33.0	34.3	32.1	-	-	-	-	-	-
176	Roofing and sheet metal work	32.9	28.7	33.1	30.4	-	-	-	-	-	-
-	MANUFACTURING	39.7	39.8	40.8	39.9	39.5	2.8	3.0	3.3	2.9	2.8
24, 25, 32-39	DURABLE GOODS	40.2	40.3	41.5	40.4	39.9	2.8	3.1	3.4	2.9	2.8
20-23, 26-31	NONDURABLE GOODS	39.0	39.0	39.8	39.1	38.8	2.8	2.9	3.1	2.9	2.8
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	38.6	38.1	39.6	38.7	37.8	2.8	2.7	3.1	2.7	-
241	Logging camps and logging contractors	38.6	35.8	37.6	37.4	-	3.7	2.8	3.6	3.6	-
242	Sawmills and planing mills	38.9	38.9	40.5	39.7	-	3.4	3.5	3.7	3.2	-
2421	Sawmills and planing mills, general	39.0	38.9	40.6	39.7	-	3.6	3.6	3.9	3.4	-
2426	Hardwood dimension and flooring	38.7	39.8	40.4	39.7	-	2.5	3.1	3.1	2.6	-
243	Millwork, plywood, and structural members	38.6	38.5	40.0	38.9	-	2.3	2.3	2.9	2.5	-
2431	Millwork	38.6	38.4	40.3	38.6	-	1.7	1.4	2.6	2.1	-
2434	Wood kitchen cabinets	37.3	38.4	38.7	37.1	-	1.5	2.1	1.8	1.4	-
2435	Hardwood veneer and plywood	39.2	38.7	41.8	40.1	-	3.0	3.0	3.8	3.4	-
2436	Softwood veneer and plywood	39.4	39.0	39.2	40.1	-	3.6	3.7	3.7	3.6	-
244	Wooden containers	37.3	37.4	37.9	36.8	-	2.0	2.3	2.0	1.7	-
245	Wood buildings and mobile homes	36.3	35.4	37.3	35.4	-	1.5	1.3	1.8	1.3	-
2451	Mobile homes	36.1	35.5	37.1	35.1	-	1.3	1.2	1.6	1.1	-
249	Miscellaneous wood products	39.8	39.6	40.9	39.9	-	2.8	2.9	3.2	2.6	-
25	FURNITURE AND FIXTURES	38.1	38.4	39.6	38.0	38.1	1.7	1.9	2.2	1.9	-
251	Household furniture	37.7	38.1	39.4	37.7	-	1.6	1.8	2.1	1.7	-
2511	Wood household furniture	38.0	38.8	39.7	38.2	-	1.7	2.1	2.1	1.9	-
2512	Upholstered household furniture	36.8	37.1	39.3	36.5	-	1.1	1.2	1.9	1.0	-
2514	Metal household furniture	38.0	38.2	38.8	38.2	-	1.8	1.3	2.5	3.0	-
2515	Mattresses and bedsprings	37.4	37.8	37.7	37.5	-	2.0	2.3	1.9	1.9	-
252	Office furniture	39.2	39.5	41.0	39.6	-	2.0	2.3	3.1	2.8	-
253	Public building and related furniture	39.1	38.7	40.2	39.0	-	2.3	2.5	3.2	2.7	-
254	Partitions and fixtures	38.7	39.0	39.1	38.4	-	2.3	2.5	2.3	1.9	-
259	Miscellaneous furniture and fixtures	38.5	38.0	40.1	38.0	-	1.1	1.4	1.8	1.0	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
32	STONE, CLAY, AND GLASS PRODUCTS	\$306.41	\$283.11	\$325.73	\$316.76	\$312.83	\$7.51	\$7.06	\$7.83	\$7.86	\$7.86
321	Flat glass	404.34	362.29	486.74	418.20	-	9.65	9.08	10.49	10.20	-
322	Glass and glassware, pressed or blown	320.79	297.54	339.90	340.31	-	7.96	7.42	8.27	8.28	-
3221	Glass containers	343.94	306.77	362.82	366.27	-	8.43	7.65	8.68	8.70	-
3229	Pressed and blown glass, nec	289.87	286.31	309.94	306.86	-	7.32	7.14	7.71	7.71	-
323	Products of purchased glass	258.45	252.50	284.56	281.29	-	6.51	6.25	6.89	6.98	-
324	Cement, hydraulic	446.27	412.58	469.88	457.87	-	10.55	9.80	11.03	10.98	-
325	Structural clay products	244.59	236.74	258.22	253.68	-	6.13	5.86	6.36	6.39	-
326	Pottery and related products	241.41	234.21	258.30	258.06	-	6.19	5.99	6.49	6.60	-
327	Concrete, gypsum, and plaster products	310.01	270.18	324.01	308.88	-	7.47	6.91	7.77	7.80	-
3271	Concrete block and brick	283.16	250.04	303.46	290.79	-	6.71	6.33	6.96	7.18	-
3272	Concrete products, nec	275.72	246.09	292.07	279.57	-	6.66	6.23	6.84	6.92	-
3273	Ready-mixed concrete	336.59	280.09	343.73	325.88	-	8.27	7.57	8.68	8.69	-
329	Misc. nonmetallic mineral products	303.40	295.78	324.94	317.34	-	7.40	7.11	7.70	7.74	-
3291	Abrasive products	290.73	287.53	314.18	299.77	-	7.25	7.03	7.41	7.42	-
3292	Asbestos products	307.27	298.87	322.70	321.81	-	7.44	7.15	7.72	7.83	-
33	PRIMARY METAL INDUSTRIES	391.38	378.51	430.56	426.42	423.86	9.76	9.30	10.35	10.35	10.44
331	Blast furnace and basic steel products	448.77	433.20	485.96	485.11	-	11.39	10.83	11.94	11.89	-
3312	Blast furnaces and steel mills	464.13	446.95	502.61	501.42	-	11.84	11.23	12.41	12.32	-
3317	Steel pipe and tubes	361.38	353.22	401.15	404.07	-	9.08	8.70	9.62	9.69	-
332	Iron and steel foundries	327.20	321.88	370.44	360.26	-	8.18	7.87	8.82	8.83	-
3321	Gray iron foundries	325.51	317.18	382.02	366.30	-	8.22	7.89	9.01	9.00	-
3322	Malleable iron foundries	344.54	343.88	384.50	386.24	-	8.88	8.47	9.31	9.49	-
3325	Steel foundries, nec	330.06	331.00	349.43	343.56	-	8.07	7.77	8.42	8.40	-
333	Primary nonferrous metals	442.44	419.50	477.28	478.50	-	10.61	10.06	11.31	11.42	-
3334	Primary aluminum	473.59	436.72	515.73	504.23	-	11.33	10.60	12.25	12.15	-
335	Nonferrous rolling and drawing	368.63	355.28	411.70	403.09	-	8.84	8.34	9.53	9.44	-
3351	Copper rolling and drawing	316.52	313.50	360.86	367.04	-	7.72	7.50	8.22	8.38	-
3353	Aluminum sheet, plate, and foil	460.22	425.57	524.78	501.84	-	10.88	9.92	11.74	11.51	-
3357	Nonferrous wire drawing and insulating	341.52	335.48	380.03	374.39	-	8.19	7.82	8.90	8.83	-
336	Nonferrous foundries	290.47	277.49	321.68	313.16	-	7.28	6.92	7.77	7.79	-
3361	Aluminum foundries	297.94	282.30	334.36	325.99	-	7.43	7.04	7.98	7.99	-
34	FABRICATED METAL PRODUCTS	300.58	287.85	326.98	317.54	316.00	7.44	7.09	7.86	7.86	7.90
341	Metal cans and shipping containers	431.10	405.10	459.52	451.86	-	9.82	9.27	10.28	10.34	-
3411	Metal cans	448.63	417.41	482.76	467.97	-	10.15	9.53	10.61	10.66	-
342	Cutlery, hand tools, and hardware	277.85	269.96	305.78	298.65	-	7.07	6.80	7.55	7.58	-
3423, 5	Hand and edge tools, and hand saws and blades	268.52	264.80	285.20	285.84	-	6.85	6.62	7.13	7.20	-
3429	Hardware, nec	289.69	275.58	327.64	315.95	-	7.39	7.03	8.05	8.06	-
343	Plumbing and heating, except electric	260.56	257.68	284.38	274.48	-	6.63	6.41	6.97	7.02	-
3432	Plumbing fittings and brass goods	255.27	254.18	277.28	273.23	-	6.43	6.23	6.73	6.78	-
3433	Heating equipment, except electric	249.87	243.20	272.56	260.13	-	6.44	6.22	6.78	6.90	-
344	Fabricated structural metal products	291.45	280.09	314.71	304.40	-	7.25	6.95	7.62	7.61	-
3441	Fabricated structural metal	310.72	292.18	335.02	325.07	-	7.56	7.25	7.92	7.89	-
3442	Metal doors, sash, and trim	232.07	224.62	251.53	242.81	-	5.89	5.73	6.18	6.21	-
3443	Fabricated plate work (boiler shops)	328.34	321.56	352.37	344.40	-	7.95	7.62	8.43	8.40	-
3444	Sheet metal work	284.65	272.05	307.57	297.22	-	7.28	6.94	7.67	7.68	-
3446	Architectural metal work	270.12	257.36	296.90	284.21	-	6.77	6.45	7.12	7.07	-
345	Screw machine products, bolts, etc.	283.56	280.48	303.88	300.70	-	6.95	6.71	7.34	7.37	-
3451	Screw machine products	257.44	262.08	268.93	267.02	-	6.42	6.24	6.74	6.76	-
3452	Bolts, nuts, rivets, and washers	309.26	298.69	340.13	334.70	-	7.47	7.18	7.91	7.95	-
346	Metal forgings and stampings	343.36	319.20	387.05	368.96	-	8.52	7.96	9.15	9.11	-
3462	Iron and steel forgings	368.02	356.98	397.55	394.00	-	9.27	8.88	9.72	9.85	-
3465	Automotive stampings	424.27	376.49	494.06	458.46	-	10.45	9.58	11.28	11.32	-
3469	Metal stampings, nec	265.72	256.14	291.07	283.39	-	6.61	6.34	6.98	6.98	-
347	Metal services, nec	244.61	230.84	263.76	257.45	-	6.01	5.80	6.31	6.31	-
3471	Plating and polishing	233.44	224.19	253.53	248.18	-	5.88	5.69	6.26	6.22	-
3479	Metal coating and allied services	265.20	244.82	284.60	275.83	-	6.24	6.03	6.41	6.49	-
348	Ordinance and accessories, nec	302.99	291.40	320.80	326.98	-	7.39	7.09	7.73	7.86	-
3483	Ammunition, exc. for small arms, nec	273.20	264.80	288.05	294.07	-	6.83	6.62	7.06	7.19	-
349	Misc. fabricated metal products	283.81	277.84	306.77	298.69	-	7.06	6.76	7.41	7.43	-
3494	Valves and pipe fittings	303.69	295.90	328.97	319.12	-	7.48	7.13	7.87	7.86	-
3496	Misc. fabricated wire products	249.02	246.41	272.30	260.83	-	6.21	6.01	6.53	6.57	-
35	MACHINERY, EXCEPT ELECTRICAL	330.44	317.89	361.65	353.91	352.15	8.04	7.66	8.57	8.59	8.61
351	Engines and turbines	386.10	372.65	430.35	417.90	-	9.75	9.27	10.42	10.50	-
3511	Turbines and turbine generator sets	365.81	332.99	411.52	403.85	-	9.01	8.43	9.66	9.85	-
3519	Internal combustion engines, nec	392.21	383.40	436.40	422.37	-	9.98	9.49	10.67	10.72	-
352	Farm and garden machinery	376.18	334.15	425.38	420.81	-	9.22	8.15	10.25	10.14	-
3523	Farm machinery and equipment	392.35	347.35	448.79	442.68	-	9.50	8.39	10.66	10.54	-
353	Construction and related machinery	352.46	333.33	390.58	385.06	-	8.66	8.21	9.19	9.19	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
32	STONE, CLAY, AND GLASS PRODUCTS	40.8	40.1	41.6	40.3	39.8	3.8	3.6	3.9	3.5	-
321	Flat glass	41.9	39.9	46.4	41.0	-	4.0	3.7	4.5	3.4	-
322	Glass and glassware, pressed or blown	40.3	40.1	41.1	41.1	-	3.8	3.7	4.0	3.9	-
3221	Glass containers	40.8	40.1	41.8	42.1	-	4.3	4.0	4.6	4.4	-
3229	Pressed and blown glass, nec	39.6	40.1	40.2	39.8	-	3.2	3.4	3.2	3.2	-
323	Products of purchased glass	39.7	40.4	41.3	40.3	-	2.5	2.2	3.7	2.8	-
324	Cement, hydraulic	42.3	42.1	42.6	41.7	-	3.5	3.7	3.6	3.2	-
325	Structural clay products	39.9	40.4	40.6	39.7	-	3.1	3.4	3.1	2.7	-
326	Pottery and related products	39.0	39.1	39.8	39.1	-	2.4	2.2	2.6	2.3	-
327	Concrete, gypsum, and plaster products	41.5	39.1	41.7	39.6	-	4.9	4.1	4.9	4.1	-
3271	Concrete block and brick	42.2	39.5	43.6	40.5	-	4.9	4.0	5.1	3.8	-
3272	Concrete products, nec	41.4	39.5	42.7	40.4	-	4.3	3.7	4.5	3.7	-
3273	Ready-mixed concrete	40.7	37.0	39.6	37.5	-	5.1	3.5	4.5	3.7	-
329	Misc. nonmetallic mineral products	41.0	41.6	42.2	41.0	-	3.3	3.8	3.5	3.4	-
3291	Abrasive products	40.1	40.9	42.4	40.4	-	2.8	3.6	3.4	2.9	-
3292	Asbestos products	41.3	41.8	41.8	41.1	-	2.8	3.4	3.2	3.1	-
33	PRIMARY METAL INDUSTRIES	40.1	40.7	41.6	41.2	40.6	2.8	3.2	3.4	3.3	-
331	Blast furnace and basic steel products	39.4	40.0	40.7	40.8	-	2.2	2.5	2.6	2.7	-
3312	Blast furnaces and steel mills	39.2	39.8	40.5	40.7	-	2.0	2.3	2.4	2.6	-
3317	Steel pipe and tubes	35.8	40.6	41.7	41.7	-	2.7	2.7	3.9	3.7	-
332	Iron and steel foundries	40.0	40.9	42.0	40.8	-	2.8	3.3	3.7	3.3	-
3321	Gray iron foundries	39.6	40.2	42.4	40.7	-	2.6	2.9	3.7	3.1	-
3322	Malleable iron foundries	38.8	40.6	41.3	40.7	-	2.4	3.6	2.9	3.2	-
3325	Steel foundries, nec	40.9	42.6	41.5	40.9	-	3.5	4.3	4.0	3.5	-
333	Primary nonferrous metals	41.7	41.7	42.2	41.9	-	3.8	3.9	3.7	3.6	-
3334	Primary aluminum	41.8	41.2	42.1	41.5	-	3.8	3.8	3.8	3.6	-
335	Nonferrous rolling and drawing	41.7	42.6	43.2	42.7	-	4.1	4.8	5.3	4.8	-
3351	Copper rolling and drawing	41.0	41.8	43.9	43.8	-	3.6	4.6	5.3	5.0	-
3353	Aluminum sheet, plate and foil	42.3	42.9	44.7	43.6	-	5.8	5.9	6.6	6.1	-
3357	Nonferrous wire drawing and insulating	41.7	42.9	42.7	42.4	-	3.9	4.5	5.3	4.7	-
336	Nonferrous foundries	39.9	40.1	41.4	40.2	-	2.5	3.0	3.0	2.7	-
3361	Aluminum foundries	40.1	40.1	41.9	40.8	-	2.6	3.3	3.3	2.9	-
34	FABRICATED METAL PRODUCTS	40.4	40.6	41.6	40.4	40.0	2.8	3.1	3.3	2.8	-
341	Metal cans and shipping containers	43.9	43.7	44.7	43.7	-	4.6	5.1	4.1	4.7	-
3411	Metal cans	44.2	43.8	45.5	43.9	-	4.5	5.1	4.1	4.6	-
342	Cutlery, hand tools, and hardware	39.3	39.7	40.5	39.4	-	2.1	2.5	2.8	2.2	-
3423, 5	Hand and edge tools, and hand saws and blades	39.2	40.0	40.0	39.7	-	2.0	2.7	2.3	2.0	-
3429	Hardware, nec	39.2	39.2	40.7	39.2	-	2.0	2.1	3.2	2.4	-
343	Plumbing and heating, except electric	39.3	40.2	40.8	39.1	-	2.3	3.3	2.9	1.9	-
3432	Plumbing fittings and brass goods	39.7	40.8	41.2	40.3	-	2.2	3.6	2.7	1.9	-
3433	Heating equipment, except electric	38.8	39.1	40.2	37.7	-	2.3	2.8	3.1	1.6	-
344	Fabricated structural metal products	40.2	40.3	41.3	40.0	-	2.7	2.9	3.3	2.7	-
3441	Fabricated structural metal	41.1	40.3	42.3	41.2	-	3.4	3.3	3.6	3.2	-
3442	Metal doors, sash, and trim	39.4	39.2	40.7	39.1	-	2.3	2.3	3.1	2.3	-
3443	Fabricated plate work (boiler shops)	41.3	42.2	41.8	41.0	-	2.9	3.1	3.5	3.1	-
3444	Sheet metal work	39.1	39.2	40.1	38.7	-	2.5	2.8	2.8	2.1	-
3446	Architectural metal work	39.9	39.9	41.7	40.2	-	2.6	2.6	3.1	2.5	-
345	Screw machine products, bolts, etc.	40.8	41.8	41.4	40.8	-	3.4	4.3	3.5	3.1	-
3451	Screw machine products	40.1	42.0	39.9	39.5	-	3.5	4.7	2.9	2.6	-
3452	Bolts, nuts, rivets, and washers	41.4	41.6	43.0	42.1	-	3.3	3.9	4.1	3.6	-
346	Metal forgings and stampings	40.3	40.1	42.3	40.5	-	3.0	3.0	3.7	3.2	-
3462	Iron and steel forgings	39.7	40.2	40.9	40.0	-	3.2	3.7	3.5	3.5	-
3465	Automotive stampings	40.6	39.3	43.8	40.5	-	3.0	2.1	4.4	3.6	-
3469	Metal stampings, nec	40.2	40.4	41.7	40.6	-	2.8	3.1	3.2	2.6	-
347	Metal services, nec	40.7	39.8	41.8	40.8	-	3.0	3.3	2.9	2.4	-
3471	Plating and polishing	39.7	39.4	40.5	39.9	-	3.1	3.0	3.5	3.0	-
3479	Metal coating and allied services	42.5	40.6	44.4	42.5	-	2.7	4.1	1.5	1.0	-
348	Ordnance and accessories, nec	41.0	41.1	41.5	41.6	-	2.7	2.6	3.1	3.1	-
3483	Ammunition, exc. for small arms, nec	40.0	40.0	40.8	40.9	-	1.9	1.7	2.4	2.5	-
349	Misc. fabricated metal products	40.2	41.1	41.4	40.2	-	2.6	3.0	3.1	2.7	-
3494	Valves and pipe fittings	40.6	41.5	41.8	40.6	-	2.9	3.3	3.6	3.0	-
3496	Misc. fabricated wire products	40.1	41.0	41.7	39.7	-	2.3	3.0	2.8	2.1	-
35	MACHINERY, EXCEPT ELECTRICAL	41.1	41.5	42.2	41.2	40.9	3.4	3.8	3.8	3.4	-
351	Engines and turbines	39.6	40.2	41.3	39.8	-	2.4	2.9	3.7	2.6	-
3511	Turbines and turbine generator sets	40.6	39.5	42.6	41.0	-	3.9	3.0	4.8	3.8	-
3519	Internal combustion engines, nec	39.3	40.4	40.9	39.4	-	2.0	2.9	3.3	2.2	-
352	Farm and garden machinery	40.8	41.0	41.5	41.5	-	3.1	3.9	3.4	3.5	-
3523	Farm machinery and equipment	41.3	41.4	42.1	42.0	-	3.3	4.1	3.8	3.9	-
353	Construction and related machinery	40.7	40.6	42.5	41.9	-	3.0	3.4	3.6	3.3	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		AVG. 1930	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery	\$374.61	\$356.98	\$407.55	\$406.06	-	\$9.63	\$9.13	\$10.24	\$10.28	-
3532	Mining machinery	352.31	341.11	384.93	379.32	-	8.51	8.18	9.10	9.01	-
3533	Oil field machinery	358.60	325.71	410.96	403.68	-	8.15	7.61	8.67	8.70	-
3535	Conveyers and conveying equipment	313.43	298.91	336.20	321.01	-	7.72	7.22	8.22	8.21	-
3537	Industrial trucks and tractors	301.09	291.85	329.64	320.76	-	7.74	7.37	8.20	8.10	-
354	Metalworking machinery	346.41	347.25	371.52	368.90	-	8.17	7.91	8.60	8.68	-
3541	Machine tools, metal cutting types	366.21	366.38	400.06	383.24	-	8.38	8.16	8.91	8.81	-
3542	Machine tools, metal forming types	348.94	350.10	359.31	353.90	-	8.49	8.18	8.85	8.76	-
3544	Special dies, tools, jigs, and fixtures	374.53	375.62	400.25	404.49	-	8.71	8.46	9.18	9.32	-
3545	Machine tool accessories	310.01	313.77	328.02	324.69	-	7.47	7.28	7.81	7.90	-
3546	Power driven hand tools	258.16	261.24	279.18	278.36	-	6.39	6.22	6.60	6.89	-
355	Special industry machinery	310.58	303.36	337.45	327.47	-	7.52	7.24	7.94	7.91	-
3551	Food products machinery	323.99	312.30	354.06	343.94	-	7.98	7.58	8.45	8.43	-
3552	Textile machinery	249.29	246.19	267.54	258.16	-	6.11	5.99	6.37	6.39	-
3555	Printing trades machinery	329.22	330.57	360.53	350.45	-	7.71	7.53	8.25	8.15	-
356	General industrial machinery	325.97	317.82	355.32	346.06	-	7.97	7.64	8.42	8.42	-
3561	Pumps and pumping equipment	322.40	315.18	353.17	351.24	-	8.00	7.65	8.51	8.63	-
3562	Ball and roller bearings	333.98	325.28	364.63	353.60	-	7.99	7.60	8.46	8.32	-
3563	Air and gas compressors	352.37	332.54	378.45	371.00	-	8.35	7.88	8.72	8.75	-
3564	Blowers and fans	301.90	290.21	326.90	312.94	-	7.31	7.01	7.62	7.67	-
3566	Speed changers, drives, and gears	367.33	359.96	391.07	383.46	-	8.83	8.43	9.18	9.24	-
3568	Power transmission equipment, nec	308.37	303.07	342.38	328.78	-	7.69	7.41	8.27	8.24	-
357	Office and computing machines	278.62	262.06	301.44	292.23	-	6.73	6.33	7.16	7.12	-
3573	Electronic computing equipment	279.55	265.41	300.05	289.68	-	6.72	6.38	7.06	7.10	-
358	Refrigeration and service machinery	287.75	273.74	320.85	310.37	-	7.23	6.93	7.75	7.74	-
3585	Refrigeration and heating equipment	294.06	278.56	331.93	317.19	-	7.37	7.07	7.96	7.91	-
359	Misc. machinery, except electrical	319.84	309.00	346.53	338.18	-	7.82	7.50	8.31	8.35	-
3592	Carburetors, pistons, rings, valves	374.85	350.07	447.55	423.91	-	9.21	8.73	10.36	10.39	-
3599	Machinery, except electrical, nec	310.78	301.39	329.93	323.20	-	7.58	7.28	7.95	8.00	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	277.01	268.13	302.99	297.54	\$291.91	6.96	6.67	7.39	7.42	\$7.39
381	Electric distributing equipment	277.11	269.74	304.70	292.80	-	6.98	6.71	7.36	7.32	-
3812	Transformers	273.48	258.55	299.41	288.86	-	6.82	6.48	7.18	7.15	-
3813	Switchgear and switchboard apparatus	275.82	278.36	307.84	296.51	-	7.12	6.89	7.49	7.45	-
382	Electrical industrial apparatus	286.22	277.44	314.08	310.78	-	7.12	6.80	7.55	7.58	-
3821	Motors and generators	289.07	277.71	320.04	321.98	-	7.12	6.79	7.62	7.74	-
3822	Industrial controls	281.78	279.62	304.55	289.67	-	7.08	6.82	7.41	7.26	-
383	Household appliances	271.91	270.27	294.06	293.61	-	6.99	6.74	7.37	7.49	-
3832	Household refrigerators and freezers	308.89	303.07	345.68	343.07	-	7.82	7.41	8.37	8.45	-
3833	Household laundry equipment	322.09	323.52	338.69	345.93	-	8.28	7.91	8.64	8.87	-
3834	Electric housewares and fans	222.51	218.44	228.34	230.12	-	5.72	5.53	5.87	6.04	-
384	Electric lighting and wiring equipment	253.99	246.00	274.72	274.00	-	6.43	6.15	6.80	6.85	-
3841	Electric lamps	284.89	273.38	300.85	313.07	-	7.14	6.75	7.54	7.73	-
3843	Current-carrying wiring devices	241.00	237.05	257.40	259.20	-	6.04	5.81	6.34	6.40	-
3844	Noncurrent-carrying wiring devices	267.06	258.05	294.27	291.04	-	6.71	6.50	7.04	7.03	-
3845	Residential lighting fixtures	188.63	184.19	207.34	207.35	-	5.03	4.86	5.33	5.50	-
385	Radio and TV receiving equipment	249.48	234.78	284.26	266.04	-	6.43	6.13	6.95	6.91	-
3851	Radio and TV receiving sets	256.69	242.57	289.04	276.97	-	6.65	6.35	7.19	7.12	-
386	Communication equipment	323.16	318.78	348.60	341.07	-	7.94	7.70	8.40	8.38	-
3861	Telephone and telegraph apparatus	334.54	336.80	366.74	359.92	-	8.24	8.00	8.88	8.80	-
3862	Radio and TV communication equipment	314.20	304.71	335.71	327.64	-	7.72	7.45	8.07	8.07	-
387	Electronic components and accessories	239.58	230.62	258.45	255.76	-	6.05	5.78	6.35	6.41	-
3871-3	Electronic tubes	315.17	304.26	337.50	333.11	-	7.54	7.21	7.96	7.95	-
3874	Semiconductors and related devices	273.88	266.09	298.69	293.22	-	6.83	6.49	7.18	7.24	-
3879	Electronic components, nec	224.36	214.19	238.17	237.01	-	5.68	5.45	5.91	5.97	-
389	Misc. electrical equipment and supplies	319.20	296.68	366.74	349.92	-	8.00	7.53	8.67	8.64	-
3891	Storage batteries	314.82	293.31	359.54	345.02	-	7.93	7.54	8.52	8.54	-
3894	Engine electrical equipment	352.24	319.55	411.40	389.61	-	8.94	8.30	9.68	9.62	-
37	TRANSPORTATION EQUIPMENT	379.20	352.40	435.74	410.35	397.58	9.34	8.81	10.11	9.96	9.89
371	Motor vehicles and equipment	394.61	361.82	479.16	439.36	-	9.89	9.23	10.89	10.69	-
3711	Motor vehicles and car bodies	427.97	384.84	534.61	478.63	-	10.78	9.97	11.96	11.76	-
3713	Truck and bus bodies	316.32	304.57	355.01	345.07	-	8.09	7.87	8.68	8.67	-
3714	Motor vehicle parts and accessories	387.18	359.00	461.89	430.96	-	9.56	9.02	10.45	10.31	-
3715,6	Truck trailers and motor homes	257.26	245.12	276.75	270.27	-	6.77	6.40	7.06	7.15	-
372	Aircraft and parts	389.34	370.94	428.98	413.55	-	9.27	8.79	9.93	9.87	-
3721	Aircraft	404.21	380.80	445.22	-	-	9.67	9.11	10.33	-	-
3724	Aircraft engines and engine parts	393.76	383.87	434.52	411.76	-	9.42	8.99	10.20	9.97	-
3728	Aircraft equipment, nec	355.69	336.60	391.61	377.86	-	8.33	7.92	8.86	8.87	-
373	Ship and boat building and repairing	332.11	304.94	352.70	351.88	-	8.18	7.72	8.54	8.52	-
3731	Shipbuilding and repairing	347.58	322.38	368.81	-	-	8.54	8.10	8.93	-	-
3732	Boat building and repairing	271.72	246.52	295.18	285.63	-	6.81	6.37	7.13	7.07	-
374	Railroad equipment	388.86	374.14	419.69	-	-	9.92	9.52	10.44	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	38.9	39.1	39.8	39.5	-	1.5	2.4	1.6	1.7	-
3532	Mining machinery	41.4	41.7	42.3	42.1	-	2.9	3.6	3.4	2.9	-
3533	Oil field machinery	44.0	42.8	47.4	46.4	-	5.5	5.3	6.4	5.8	-
3535	Conveyers and conveying equipment	40.6	41.4	40.9	39.1	-	2.9	2.8	3.8	2.9	-
3537	Industrial trucks and tractors	38.9	39.6	40.2	39.6	-	2.1	2.7	2.1	2.2	-
354	Metalworking machinery	42.4	43.9	43.2	42.5	-	4.7	5.8	4.9	4.6	-
3541	Machine tools, metal cutting types	43.7	44.9	44.9	43.5	-	5.8	6.5	6.5	5.2	-
3542	Machine tools, metal forming types	41.1	42.8	40.6	40.4	-	4.5	5.8	3.5	3.3	-
3544	Special dies, tools, jigs, and fixtures	43.0	44.4	43.6	43.4	-	5.3	6.3	5.4	5.6	-
3545	Machine tool accessories	41.5	43.1	42.0	41.1	-	4.1	5.4	4.0	3.7	-
3546	Power driven hand tools	40.4	42.0	42.3	40.4	-	2.6	4.3	2.8	2.1	-
355	Special industry machinery	41.3	41.9	42.5	41.4	-	3.3	3.8	3.7	3.1	-
3551	Food products machinery	40.6	41.2	41.9	40.8	-	2.6	3.2	3.1	2.5	-
3552	Textile machinery	40.8	41.1	42.0	40.4	-	2.4	2.8	2.6	2.0	-
3555	Printing trades machinery	42.7	43.9	43.7	43.0	-	4.2	5.0	4.6	4.5	-
356	General industrial machinery	40.9	41.6	42.2	41.1	-	3.4	4.0	3.9	3.4	-
3561	Pumps and pumping equipment	40.3	41.2	41.5	40.7	-	2.8	3.4	3.2	2.7	-
3562	Ball and roller bearings	41.8	42.8	43.1	42.5	-	4.3	4.9	5.0	4.7	-
3563	Air and gas compressors	42.2	42.2	43.4	42.4	-	4.5	5.0	4.4	4.3	-
3564	Blowers and fans	41.3	41.4	42.9	40.8	-	3.8	4.4	4.2	3.5	-
3566	Speed changers, drives, and gears	41.6	42.7	42.6	41.5	-	3.6	4.6	3.6	3.0	-
3568	Power transmission equipment, nec	40.1	40.9	41.4	39.9	-	2.7	2.8	3.6	2.9	-
357	Office and computing machines	41.4	41.4	42.1	40.7	-	2.7	2.7	2.9	2.4	-
3573	Electronic computing equipment	41.6	41.6	42.5	40.8	-	2.7	3.0	3.2	2.6	-
358	Refrigeration and service machinery	39.8	39.5	41.4	40.1	-	2.1	2.1	3.1	2.4	-
3585	Refrigeration and heating equipment	39.9	39.4	41.7	40.1	-	2.2	2.1	3.1	2.3	-
359	Misc. machinery, except electrical	40.9	41.2	41.7	40.5	-	3.8	4.1	4.2	3.7	-
3592	Carburetors, pistons, rings, valves	40.7	40.1	43.2	40.8	-	2.9	2.3	4.8	3.4	-
3599	Machinery, except electrical, nec	41.0	41.4	41.5	40.4	-	4.0	4.4	4.1	3.7	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	39.8	40.2	41.0	40.1	39.5	2.3	2.6	2.8	2.3	-
361	Electric distributing equipment	39.7	40.2	41.4	40.0	-	2.4	2.8	3.0	2.4	-
3612	Transformers	40.1	39.9	41.7	40.4	-	2.7	3.1	2.8	2.3	-
3613	Switchgear and switchboard apparatus	39.3	40.4	41.1	39.8	-	2.2	2.5	3.1	2.5	-
362	Electrical industrial apparatus	40.2	40.8	41.6	41.0	-	2.5	2.9	3.3	2.5	-
3621	Motors and generators	40.6	40.9	42.0	41.6	-	2.6	3.0	3.7	2.8	-
3622	Industrial controls	39.8	41.0	41.1	39.9	-	2.1	2.5	2.5	1.3	-
363	Household appliances	38.9	40.1	39.9	39.2	-	1.9	2.3	2.3	1.9	-
3632	Household refrigerators and freezers	39.5	40.9	41.3	40.6	-	1.8	2.0	2.6	1.2	-
3633	Household laundry equipment	38.9	40.9	39.2	39.0	-	1.0	1.7	.9	.9	-
3634	Electric housewares and fans	38.9	39.5	38.9	38.1	-	1.8	2.1	1.4	1.5	-
364	Electric lighting and wiring equipment	39.5	40.0	40.4	40.0	-	2.1	2.4	2.8	2.4	-
3641	Electric lamps	39.9	40.5	39.9	40.5	-	1.8	2.0	2.0	1.7	-
3643	Current-carrying wiring devices	39.9	40.8	40.6	40.5	-	2.4	2.9	3.4	2.8	-
3644	Noncurrent-carrying wiring devices	39.8	39.7	41.8	41.4	-	2.1	2.5	2.9	2.8	-
3645	Residential lighting fixtures	37.5	37.9	38.9	37.7	-	1.2	1.8	1.6	1.2	-
365	Radio and TV receiving equipment	38.8	38.3	40.9	38.5	-	1.6	1.4	2.7	1.2	-
3651	Radio and TV receiving sets	38.6	38.2	40.2	38.9	-	1.7	1.5	2.4	1.5	-
366	Communication equipment	40.7	41.4	41.5	40.7	-	2.4	2.9	2.8	2.3	-
3661	Telephone and telegraph apparatus	40.6	42.1	41.3	40.9	-	2.4	3.6	2.7	2.3	-
3662	Radio and TV communication equipment	40.7	40.9	41.6	40.6	-	2.4	2.4	2.9	2.3	-
367	Electronic components and accessories	39.6	39.9	40.7	39.9	-	2.5	2.8	2.7	2.4	-
3671-3	Electronic tubes	41.8	42.2	42.4	41.9	-	2.4	2.6	2.7	2.4	-
3674	Semiconductors and related devices	40.1	41.0	41.6	40.5	-	3.1	3.7	3.2	2.8	-
3679	Electronic components, nec	39.5	39.3	40.3	39.7	-	2.4	2.5	2.7	2.4	-
369	Misc. electrical equipment and supplies	39.9	39.4	42.3	40.5	-	2.0	1.6	3.4	2.8	-
3691	Storage batteries	39.7	38.9	42.2	40.4	-	2.2	1.9	3.8	3.0	-
3694	Engine electrical equipment	39.4	38.5	42.5	40.5	-	1.7	.9	3.3	2.9	-
37	TRANSPORTATION EQUIPMENT	40.6	40.0	43.1	41.2	40.2	3.2	3.1	4.4	3.2	-
371	Motor vehicles and equipment	39.9	39.2	44.0	41.1	-	2.6	2.3	4.4	3.0	-
3711	Motor vehicles and car bodies	39.7	38.6	44.7	40.7	-	2.6	2.5	4.9	2.8	-
3713	Truck and bus bodies	39.1	38.7	40.9	39.8	-	2.4	2.8	3.8	3.0	-
3714	Motor vehicle parts and accessories	40.5	39.8	44.2	41.8	-	2.7	2.2	4.3	3.3	-
3715,6	Truck trailers and motor homes	38.0	38.3	39.2	37.8	-	1.3	1.5	1.8	1.3	-
372	Aircraft and parts	42.0	42.2	43.2	41.9	-	4.3	4.5	4.9	3.7	-
3721	Aircraft	41.8	41.8	43.1	-	-	3.5	3.8	4.2	-	-
3724	Aircraft engines and engine parts	41.8	42.7	42.6	41.3	-	5.0	5.1	5.7	4.0	-
3728	Aircraft equipment, nec	42.7	42.5	44.2	42.6	-	5.0	5.1	5.7	4.5	-
373	Ship and boat building and repairing	40.6	39.5	41.3	41.3	-	3.6	3.7	3.9	3.8	-
3731	Ship building and repairing	40.7	39.8	41.3	-	-	3.7	3.9	3.9	-	-
3732	Boat building and repairing	39.9	38.7	41.4	40.4	-	3.3	3.0	3.7	3.3	-
374	Railroad equipment	39.2	39.3	40.2	-	-	2.8	3.5	2.9	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	\$378.02	\$364.42	\$416.08	\$400.25	-	\$9.22	\$8.76	\$9.79	\$9.81	-
3761	Guided missiles and space vehicles	383.46	372.44	428.00	405.19	-	9.33	8.91	10.00	9.98	-
379	Miscellaneous transportation equipment	265.87	243.69	278.64	273.14	-	6.87	6.64	6.88	6.88	-
3792	Travel trailers and campers	222.83	199.63	234.00	236.16	-	5.99	5.82	6.00	6.15	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	275.81	269.37	294.17	291.60	\$288.80	6.81	6.57	7.14	7.20	\$7.22
381	Measuring and controlling devices	295.07	286.86	318.86	311.67	-	7.11	6.83	7.45	7.51	-
382	Environmental controls	281.95	278.46	292.32	288.16	-	6.86	6.63	7.01	7.08	-
3822	Process control instruments	250.57	246.41	268.45	262.51	-	6.28	6.01	6.50	6.53	-
3823	Instruments to measure electricity	294.01	284.23	310.28	301.18	-	6.79	6.61	7.02	7.07	-
3825	Optical instruments and lenses	304.47	310.89	305.70	299.89	-	7.39	7.23	7.42	7.46	-
383	Medical instruments and supplies	300.12	300.17	327.60	308.88	-	7.32	7.13	7.80	7.80	-
384	Surgical and medical instruments	228.73	221.43	244.00	245.12	-	5.82	5.62	6.10	6.19	-
3841	Surgical appliances and supplies	222.24	210.28	233.23	241.40	-	5.57	5.31	5.86	5.99	-
3842	Ophthalmic goods	234.18	230.30	252.63	249.07	-	6.02	5.86	6.30	6.37	-
385	Photographic equipment and supplies	209.21	202.66	218.35	220.00	-	5.31	5.17	5.50	5.50	-
386	Watches, clocks, and watchcases	361.52	353.14	399.84	401.94	-	8.82	8.53	9.52	9.57	-
387	Watches, clocks, and watchcases	202.26	200.31	221.65	217.49	-	5.24	5.11	5.64	5.62	-
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	210.92	204.86	225.94	224.27	224.85	5.45	5.28	5.72	5.81	5.81
391	Jewelry, precious metal	219.55	206.50	235.17	228.51	-	5.75	5.42	6.03	6.11	-
3911	Musical instruments	214.13	203.14	233.75	226.32	-	5.71	5.36	6.04	6.15	-
393	Toys and sporting goods	209.91	205.15	222.64	213.71	-	5.41	5.22	5.58	5.58	-
394	Dolls, games, toys, and children's vehicles	192.23	186.34	203.70	208.05	-	4.98	4.84	5.25	5.39	-
3942, 4	Sporting and athletic goods, nec	180.21	178.51	182.77	194.53	-	4.78	4.71	4.90	5.16	-
3949	Pens, pencils, office and art supplies	202.91	192.27	219.45	219.06	-	5.15	4.93	5.50	5.56	-
395	Costume jewelry and notions	225.12	222.49	240.02	233.64	-	5.60	5.48	5.84	5.93	-
396	Costume jewelry	178.13	171.38	192.27	192.27	-	4.70	4.57	4.88	5.02	-
3961	Miscellaneous manufactures	165.84	154.15	177.56	179.08	-	4.47	4.27	4.60	4.75	-
399	Signs and advertising displays	232.80	229.89	248.29	245.99	-	6.00	5.82	6.27	6.34	-
3993	Signs and advertising displays	247.56	237.00	267.07	260.24	-	6.43	6.14	6.66	6.69	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	272.34	261.10	287.34	288.40	284.47	6.86	6.61	7.13	7.21	7.22
201	Meat packing plants	272.92	265.28	285.44	293.53	-	6.98	6.75	7.19	7.32	-
2011	Sausages and other prepared meats	351.90	344.42	362.79	382.34	-	8.50	8.22	8.70	8.83	-
2013	Poultry dressing plants	317.96	302.64	338.08	337.39	-	8.07	7.78	8.41	8.52	-
2016	Dairy products	162.26	153.72	173.53	170.46	-	4.47	4.27	4.69	4.67	-
202	Cheese, natural and processed	285.11	269.43	294.17	294.17	-	6.87	6.62	7.14	7.21	-
2022	Fluid milk	261.09	240.52	270.24	268.19	-	6.56	6.28	6.79	6.93	-
2026	Preserved fruits and vegetables	300.33	284.39	309.32	309.09	-	7.10	6.82	7.40	7.43	-
203	Canned specialties	230.49	219.18	240.73	249.42	-	5.91	5.62	6.11	6.22	-
2032	Canned fruits and vegetables	253.84	238.45	277.14	286.53	-	6.68	6.41	6.86	7.11	-
2033	Frozen fruits and vegetables	236.79	217.49	240.91	249.40	-	6.01	5.62	6.13	6.33	-
2037	Grain mill products	216.50	212.40	222.52	247.55	-	5.58	5.35	5.81	5.88	-
204	Flour and other grain mill products	328.42	315.79	348.21	340.63	-	7.62	7.31	7.95	7.94	-
2041	Prepared feeds, nec	351.26	328.99	377.74	357.69	-	7.72	7.36	8.02	8.02	-
2048	Bakery products	268.51	266.03	282.31	284.03	-	6.23	6.06	6.55	6.59	-
205	Bread, cake, and related products	279.41	263.58	294.84	289.94	-	7.22	6.90	7.56	7.59	-
2051	Cookies and crackers	278.48	261.32	289.18	280.44	-	7.29	6.95	7.61	7.60	-
2052	Sugar and confectionery products	281.10	271.48	313.65	316.01	-	7.01	6.77	7.45	7.56	-
206	Cane and beet sugar	256.49	243.33	270.54	271.48	-	6.51	6.37	6.68	6.77	-
2061-3	Confectionery products	326.27	299.53	335.09	329.30	-	7.90	7.70	7.53	7.57	-
2065	Fats and oils	218.30	208.69	226.18	231.87	-	5.67	5.58	5.89	6.07	-
207	Beverages	304.72	297.69	320.23	322.59	-	7.07	6.63	7.43	7.45	-
208	Malt beverages	332.52	306.13	348.55	334.62	-	8.13	7.75	8.46	8.45	-
2082	Bottled and canned soft drinks	470.88	426.42	480.68	462.38	-	10.90	10.35	11.31	11.25	-
2086	Misc. foods and kindred products	245.01	223.86	252.33	244.86	-	6.11	5.74	6.34	6.36	-
209	Misc. foods and kindred products	224.10	214.27	243.66	239.40	-	5.96	5.76	6.20	6.30	-
TOBACCO MANUFACTURES											
21	Cigarettes	291.85	264.08	304.80	324.10	319.81	7.66	7.08	8.00	8.44	8.35
211	Cigarettes	353.51	315.09	383.13	403.75	-	9.23	8.38	9.90	10.17	-
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	202.80	200.41	217.46	212.53	211.60	5.07	4.90	5.33	5.34	5.33
221	Weaving mills, synthetics	215.78	215.48	229.22	221.10	-	5.25	5.07	5.51	5.50	-
222	Weaving and finishing mills, wool	216.77	217.24	228.52	227.69	-	5.30	5.16	5.56	5.54	-
223	Narrow fabric mills	208.92	203.50	223.69	225.35	-	5.21	5.00	5.39	5.43	-
224	Knitting mills	185.66	184.37	197.69	196.49	-	4.63	4.53	4.81	4.90	-
225	Knitting mills	182.31	177.49	191.57	190.51	-	4.76	4.61	4.95	5.04	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	TRANSPORTATION EQUIPMENT—Continued										
376	Guided missiles, space vehicles, parts	41.0	41.6	42.5	40.8	-	3.6	3.8	4.0	3.5	-
3761	Guided missiles and space vehicles	41.1	41.8	42.8	40.6	-	3.2	3.3	3.7	2.9	-
379	Miscellaneous transportation equipment	38.7	36.7	40.5	39.7	-	1.8	1.5	2.9	1.7	-
3792	Travel trailers and campers	37.2	34.3	39.0	38.4	-	1.3	1.2	1.9	1.4	-
38	INSTRUMENTS AND RELATED PRODUCTS	40.5	41.0	41.2	40.5	40.0	2.3	2.5	2.7	2.5	-
381	Engineering and scientific instruments	41.5	42.0	42.8	41.5	-	3.0	3.5	3.5	3.0	-
382	Measuring and controlling devices	41.1	42.0	41.7	40.7	-	2.3	2.6	2.5	2.2	-
3822	Environmental controls	39.9	41.0	41.3	40.2	-	1.8	2.0	3.0	2.5	-
3823	Process control instruments	43.3	43.0	44.2	42.6	-	3.7	4.1	3.4	3.2	-
3825	Instruments to measure electricity	41.2	43.0	41.2	40.2	-	1.8	2.1	2.0	1.7	-
383	Optical instruments and lenses	41.0	42.1	42.0	39.6	-	3.1	3.6	3.7	2.9	-
384	Medical instruments and supplies	39.3	39.4	40.0	39.6	-	2.1	2.1	2.5	2.4	-
3841	Surgical and medical instruments	39.9	39.6	39.8	40.3	-	2.1	2.3	2.1	2.6	-
3842	Surgical appliances and supplies	38.9	39.3	40.1	39.1	-	2.3	2.2	3.0	2.5	-
385	Ophthalmic goods	39.4	39.2	39.7	40.0	-	1.8	2.0	1.6	1.6	-
386	Photographic equipment and supplies	41.0	41.4	42.0	42.0	-	2.9	2.8	3.6	3.5	-
387	Watches, clocks, and watchcases	38.6	39.2	39.3	38.7	-	1.2	1.3	1.3	.8	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	38.7	38.8	39.5	38.6	38.7	1.9	2.1	2.3	1.8	-
391	Jewelry, silverware, and plated ware	38.2	38.1	39.0	37.4	-	2.0	2.1	2.8	1.7	-
3911	Jewelry, precious metal	37.5	37.9	38.7	36.8	-	2.2	2.6	3.3	2.0	-
393	Musical instruments	38.8	39.3	39.9	38.3	-	1.3	1.3	1.5	.9	-
394	Toys and sporting goods	38.6	38.5	38.8	38.6	-	1.5	1.8	1.7	1.4	-
3942, 4	Dolls, games, toys, and children's vehicles	37.7	37.9	37.3	37.7	-	1.2	1.4	1.2	1.1	-
3949	Sporting and athletic goods, nec	39.4	39.0	39.9	39.4	-	1.8	2.1	2.1	1.6	-
395	Pens, pencils, office and art supplies	40.2	40.6	41.1	39.4	-	2.5	2.8	3.0	2.4	-
396	Costume jewelry and notions	37.9	37.5	39.4	38.3	-	2.0	2.3	2.8	2.2	-
3961	Costume jewelry	37.1	36.1	38.6	37.7	-	1.7	1.5	2.8	2.1	-
399	Miscellaneous manufactures	38.8	39.5	39.6	38.8	-	2.0	2.1	2.4	2.1	-
3993	Signs and advertising displays	38.5	38.6	40.1	38.9	-	2.3	2.1	3.2	2.5	-
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	39.7	39.5	40.3	40.0	39.4	3.8	3.7	3.9	3.9	-
201	Meat products	39.1	39.3	39.7	40.1	-	3.7	4.0	4.0	4.2	-
2011	Meat packing plants	41.4	41.9	41.7	43.3	-	4.9	5.5	5.2	5.9	-
2013	Sausages and other prepared meats	39.4	38.9	40.2	39.6	-	3.1	3.2	3.5	3.4	-
2016	Poultry dressing plants	36.3	36.0	37.0	36.5	-	2.6	2.7	2.9	2.4	-
202	Dairy products	41.5	40.7	41.2	40.8	-	4.1	3.6	3.7	3.8	-
2022	Cheese, natural and processed	39.8	38.3	39.8	38.7	-	3.5	2.7	3.3	3.2	-
2026	Fluid milk	42.3	41.7	41.8	41.6	-	4.4	4.1	4.0	4.1	-
203	Preserved fruits and vegetables	39.0	39.0	39.4	40.1	-	3.9	3.9	3.3	4.2	-
2032	Canned specialties	38.0	37.2	40.4	40.3	-	5.6	9.1	5.5	6.4	-
2033	Canned fruits and vegetables	39.4	38.7	39.3	39.4	-	4.3	2.8	2.8	3.0	-
2037	Frozen fruits and vegetables	38.8	39.7	38.3	42.1	-	3.7	4.5	3.5	6.4	-
204	Grain mill products	43.1	43.2	43.8	42.9	-	5.8	6.2	5.9	6.0	-
2041	Flour and other grain mill products	45.5	44.7	47.1	44.6	-	6.3	6.5	6.8	6.1	-
2048	Prepared feeds, nec	43.1	43.9	43.1	43.1	-	6.1	6.7	6.0	6.2	-
205	Bakery products	38.7	38.2	39.0	38.2	-	3.3	2.9	3.4	3.1	-
2051	Bread, cake, and related products	38.2	37.6	38.0	36.9	-	3.5	3.0	3.4	3.0	-
2052	Cookies and crackers	40.1	40.1	42.1	41.8	-	2.6	2.5	3.3	3.5	-
206	Sugar and confectionery products	39.4	38.2	40.5	40.1	-	2.5	2.0	3.1	2.8	-
2061-3	Cane and beet sugar	41.3	38.9	44.5	43.5	-	2.5	1.0	4.0	4.2	-
2065	Confectionery products	38.5	37.4	38.4	38.2	-	2.5	2.5	2.7	2.2	-
207	Fats and oils	43.1	44.9	43.1	43.3	-	5.3	6.0	5.4	5.5	-
208	Beverages	40.9	39.5	41.2	39.6	-	4.1	3.5	3.6	3.3	-
2082	Malt beverages	43.2	41.2	42.5	41.1	-	5.7	5.1	5.1	5.0	-
2088	Bottled and canned soft drinks	40.1	39.0	39.8	38.5	-	3.7	3.0	3.2	2.7	-
209	Misc. foods and kindred products	37.6	37.2	39.3	38.0	-	3.2	2.6	3.4	3.3	-
21	TOBACCO MANUFACTURES	38.1	37.3	38.1	38.4	38.3	1.7	1.3	2.4	2.6	-
211	Cigarettes	38.3	37.6	38.7	39.7	-	1.8	1.4	2.6	3.3	-
22	TEXTILE MILL PRODUCTS	40.0	40.9	40.8	39.8	39.7	3.2	3.7	3.5	3.2	-
221	Weaving mills, cotton	41.1	42.5	41.6	40.2	-	3.9	4.8	3.9	3.5	-
222	Weaving mills, synthetics	40.9	42.1	41.1	41.1	-	3.4	4.3	3.7	3.7	-
223	Weaving and finishing mills, wool	40.1	40.7	41.5	41.5	-	2.9	3.5	3.2	3.3	-
224	Narrow fabric mills	40.1	40.7	41.1	40.1	-	2.5	3.2	2.7	2.5	-
225	Knitting mills	38.3	38.5	38.7	37.8	-	2.5	2.8	2.5	2.3	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	TEXTILE MILL PRODUCTS—Continued										
2251	Women's hosiery, except socks	\$151.62	\$167.37	\$172.42	\$172.79	-	\$4.44	\$4.37	\$4.66	\$4.76	-
2252	Hosiery, nec	156.21	161.94	174.93	175.38	-	4.48	4.33	4.64	4.74	-
2253	Knit outerwear mills	130.40	172.07	186.73	184.02	-	4.69	4.54	4.85	4.96	-
2254	Knit underwear mills	158.18	155.94	174.94	174.36	-	4.57	4.43	4.69	4.83	-
2257	Circular knit fabric mills	218.36	213.35	228.22	224.56	-	5.30	5.02	5.58	5.60	-
226	Textile finishing, except wool	220.32	218.20	244.52	230.61	-	5.40	5.22	5.74	5.68	-
2261	Finishing plants, cotton	223.16	221.96	251.50	231.20	-	5.51	5.31	5.89	5.78	-
2262	Finishing plants, synthetics	229.48	224.64	254.60	243.78	-	5.57	5.40	5.88	5.86	-
227	Floor covering mills	208.52	198.86	234.34	219.45	-	5.20	4.91	5.54	5.50	-
228	Yarn and thread mills	190.00	190.03	204.00	199.90	-	4.75	4.59	5.00	5.01	-
2281	Yarn mills, except wool	193.11	195.89	207.24	201.20	-	4.78	4.62	5.03	5.03	-
2282	Throwing and winding mills	176.93	171.16	188.73	188.73	-	4.56	4.40	4.79	4.79	-
229	Miscellaneous textile goods	228.25	222.91	254.40	242.90	-	5.54	5.32	5.93	5.91	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	161.78	156.29	172.68	171.64	\$171.15	4.57	4.44	4.81	4.89	\$4.89
231	Men's and boys' suits and coats	192.60	189.73	206.07	204.12	-	5.35	5.39	5.51	5.67	-
232	Men's and boys' furnishings	153.55	152.21	160.16	161.07	-	4.23	4.17	4.40	4.55	-
2321	Men's and boys' shirts and nightwear	149.14	145.71	156.45	155.94	-	4.12	4.07	4.31	4.31	-
2327	Men's and boys' separate trousers	153.28	152.80	161.73	163.45	-	4.33	4.28	4.48	4.67	-
2328	Men's and boys' work clothing	153.64	154.28	158.30	160.56	-	4.13	4.06	4.29	4.46	-
233	Women's and misses' outerwear	153.18	146.52	158.84	160.20	-	4.60	4.44	4.77	4.84	-
2331	Women's and misses' blouses and waists	146.97	142.04	150.64	151.87	-	4.31	4.24	4.47	4.52	-
2335	Women's and misses' dresses	148.37	143.28	151.66	155.06	-	4.71	4.52	4.94	4.97	-
2337	Women's and misses' suits and coats	170.00	154.71	175.94	175.54	-	5.00	4.66	5.19	5.24	-
2339	Women's and misses' outerwear, nec	153.53	149.21	162.69	162.74	-	4.45	4.35	4.57	4.69	-
234	Women's and children's undergarments	149.40	144.99	152.93	156.47	-	4.15	4.05	4.26	4.42	-
2341	Women's and children's underwear	148.47	144.44	151.50	155.05	-	4.09	3.99	4.22	4.38	-
2342	Brassieres and allied garments	151.89	147.65	158.95	163.40	-	4.39	4.33	4.44	4.59	-
236	Children's outerwear	151.20	149.09	158.63	161.46	-	4.20	4.13	4.37	4.51	-
2361	Children's dresses and blouses	146.91	143.78	155.30	154.00	-	4.15	4.05	4.29	4.40	-
238	Misc. apparel and accessories	161.37	155.14	172.89	172.06	-	4.47	4.37	4.66	4.74	-
239	Misc. fabricated textile products	194.77	179.82	226.69	213.94	-	5.18	4.86	5.71	5.63	-
2391	Curtains and draperies	145.80	139.30	151.48	150.38	-	4.05	3.98	4.15	4.26	-
2392	House furnishing, nec	171.00	163.73	187.46	181.64	-	4.50	4.32	4.71	4.78	-
2396	Automotive and apparel trimmings	318.52	281.22	394.83	357.62	-	8.36	7.58	9.29	8.83	-
26	PAPER AND ALLIED PRODUCTS	332.06	319.82	361.84	355.61	352.73	7.85	7.49	8.28	8.27	8.28
261, 2,6	Paper and pulp mills	406.73	389.34	434.88	428.23	-	9.14	8.71	9.60	9.58	-
262	Paper mills, except building paper	408.14	390.57	438.76	430.76	-	9.09	8.66	9.58	9.53	-
263	Paperboard mills	408.32	385.87	448.02	436.63	-	9.28	8.83	9.89	9.79	-
264	Misc. converted paper products	280.55	273.16	306.71	301.90	-	6.91	6.63	7.32	7.31	-
2641	Paper coating and glazing	316.23	313.90	354.09	344.35	-	7.62	7.30	8.14	8.16	-
2642	Envelopes	250.17	245.41	272.00	268.00	-	6.27	6.12	6.57	6.65	-
2643	Bags, except textile bags	267.90	262.50	292.50	283.86	-	6.55	6.28	6.85	6.84	-
265	Paperboard containers and boxes	285.93	278.39	316.82	311.22	-	6.94	6.66	7.30	7.34	-
2651	Folding paperboard boxes	295.24	284.76	335.53	317.37	-	7.08	6.78	7.54	7.45	-
2653	Corrugated and solid fiber boxes	300.35	292.72	330.81	328.42	-	7.22	6.92	7.57	7.62	-
2654	Sanitary food containers	272.58	256.85	306.16	292.29	-	6.60	6.28	6.88	6.91	-
27	PRINTING AND PUBLISHING	279.73	269.33	300.23	293.46	293.78	7.54	7.24	7.88	7.91	7.94
271	Newspapers	258.72	249.42	277.38	265.98	-	7.70	7.49	8.04	8.06	-
272	Periodicals	260.98	233.83	292.22	283.82	-	7.15	6.70	7.59	7.65	-
273	Books	259.29	249.87	283.77	271.98	-	6.77	6.44	7.13	7.12	-
2731	Book publishing	249.28	233.78	275.32	261.37	-	6.56	6.12	6.97	6.86	-
2732	Book printing	269.12	264.88	291.93	283.39	-	6.99	6.74	7.28	7.38	-
274	Miscellaneous publishing	236.31	220.53	245.80	230.86	-	6.51	6.16	6.79	6.81	-
275	Commercial printing	300.63	288.78	320.19	315.65	-	7.87	7.54	8.21	8.22	-
2751	Commercial printing, letterpress	278.60	266.63	298.75	294.13	-	7.39	7.11	7.68	7.72	-
2752	Commercial printing, lithographic	310.31	298.37	331.18	327.71	-	8.06	7.69	8.47	8.49	-
276	Manifold business forms	299.63	299.75	325.56	316.27	-	7.38	7.12	7.77	7.79	-
278	Blankbooks and bookbinding	225.81	217.40	249.70	246.18	-	5.79	5.56	6.12	6.17	-
279	Printing trade services	361.57	359.91	385.71	376.25	-	9.54	9.30	9.89	9.98	-
28	CHEMICALS AND ALLIED PRODUCTS	344.04	332.35	365.43	359.72	362.25	8.29	7.97	8.68	8.71	8.75
281	Industrial inorganic chemicals	375.99	364.11	402.06	400.44	-	9.06	8.69	9.55	9.58	-
2819	Industrial inorganic chemicals, nec	376.98	364.42	403.79	397.44	-	9.15	8.76	9.66	9.67	-
282	Plastics materials and synthetics	341.96	330.68	364.59	362.71	-	8.26	7.93	8.66	8.74	-
2821	Plastics materials and resins	377.27	364.23	404.61	412.60	-	8.94	8.53	9.28	9.42	-
2824	Organic fibers, noncellulosic	315.79	305.93	337.83	326.78	-	7.74	7.48	8.18	8.19	-
283	Drugs	314.47	307.84	332.42	327.61	-	7.67	7.40	8.01	8.01	-
2834	Pharmaceutical preparations	298.15	292.22	315.70	309.54	-	7.38	7.11	7.70	7.70	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	36.4	38.3	37.0	36.3	-	1.6	2.3	2.0	1.6	-
2252	Hosiery, nec	37.1	37.4	37.7	37.0	-	1.8	1.9	1.7	1.8	-
2253	Knit outerwear mills	38.4	37.9	38.5	37.1	-	2.5	2.4	2.4	2.3	-
2254	Knit underwear mills	36.8	35.2	37.3	36.1	-	1.5	1.1	1.7	1.5	-
2257	Circular knit fabric mills	41.2	42.5	40.9	40.1	-	4.3	5.5	4.0	3.3	-
226	Textile finishing, except wool	40.8	41.8	42.6	40.6	-	3.5	3.8	4.5	3.6	-
2261	Finishing plants, cotton	40.5	41.8	42.7	40.0	-	3.5	4.0	4.8	3.3	-
2262	Finishing plants, synthetics	41.2	41.6	43.3	41.6	-	3.7	3.5	4.9	4.1	-
227	Floor covering mills	40.1	40.5	42.3	39.9	-	3.3	3.3	4.4	3.5	-
228	Yarn and thread mills	40.0	41.4	40.8	39.9	-	3.3	3.9	3.5	3.3	-
2281	Yarn mills, except wool	40.4	42.4	41.2	40.0	-	3.5	4.5	3.6	3.5	-
2282	Throwing and winding mills	38.8	38.9	39.4	39.4	-	3.1	2.3	3.5	3.0	-
229	Miscellaneous textile goods	41.2	41.9	42.9	41.1	-	3.2	3.5	4.2	3.6	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.4	35.2	35.9	35.1	35.0	1.0	1.0	1.2	.9	-
231	Men's and boys' suits and coats	36.0	35.2	37.4	36.0	-	.8	.6	.8	.7	-
232	Men's and boys' furnishings	36.3	36.5	36.4	35.4	-	1.1	1.2	1.0	.8	-
2321	Men's and boys' shirts and nighwear	36.2	35.8	36.3	35.2	-	1.1	1.0	1.0	.9	-
2327	Men's and boys' separate trousers	35.4	35.7	36.1	35.0	-	.9	1.1	.9	.8	-
2328	Men's and boys' work clothing	37.2	38.0	36.9	36.0	-	1.3	1.4	1.1	.8	-
233	Women's and misses' outerwear	33.3	33.0	33.3	33.1	-	.8	.8	1.0	.9	-
2331	Women's and misses' blouses and waists	34.1	33.5	33.7	33.6	-	.8	.8	.6	.8	-
2335	Women's and misses' dresses	31.5	31.7	30.7	31.2	-	.7	.6	.7	.7	-
2337	Women's and misses' suits and coats	34.0	33.2	33.9	33.5	-	.9	.7	1.1	.8	-
2339	Women's and misses' outerwear, nec	34.5	34.3	35.6	34.7	-	1.0	.9	1.3	1.1	-
234	Women's and children's undergarments	36.0	35.8	35.9	35.4	-	1.0	1.0	1.1	.9	-
2341	Women's and children's underwear	36.3	36.2	35.9	35.4	-	1.1	1.1	1.1	.9	-
2342	Brassieres and allied garments	34.6	34.1	35.8	35.6	-	.9	.6	1.1	.9	-
236	Children's outerwear	36.0	36.1	36.3	35.8	-	1.2	1.2	1.1	1.1	-
2361	Children's dresses and blouses	35.4	35.5	36.2	35.0	-	.9	.9	.9	.8	-
238	Misc. apparel and accessories	36.1	35.5	37.1	36.3	-	1.1	.7	1.2	.7	-
239	Misc. fabricated textile products	37.6	37.0	39.7	38.0	-	1.5	1.1	2.4	1.4	-
2391	Curtains and draperies	36.0	35.0	36.5	35.3	-	.7	.5	1.1	.3	-
2392	House furnishings, nec	38.0	37.9	39.8	38.0	-	1.8	1.6	2.7	1.8	-
2396	Automotive and apparel trimmings	38.1	37.1	42.5	40.5	-	1.9	.3	3.3	1.0	-
26	PAPER AND ALLIED PRODUCTS	42.3	42.7	43.7	43.0	42.6	4.3	4.4	5.0	4.7	-
261, 2, 6	Paper and pulp mills	44.5	44.7	45.3	44.7	-	6.5	6.8	6.6	6.5	-
262	Paper mills, except building paper	44.9	45.1	45.8	45.2	-	6.7	6.8	6.9	6.7	-
263	Paperboard mills	44.0	43.7	45.3	44.6	-	7.1	7.2	8.0	7.3	-
264	Misc. converted paper products	40.6	41.2	41.9	41.3	-	2.9	3.4	3.2	3.1	-
2641	Paper coating and glazing	41.5	43.0	43.5	42.2	-	3.3	4.3	3.3	3.2	-
2642	Envelopes	39.9	40.1	41.4	40.3	-	2.5	3.4	2.6	2.5	-
2643	Bags, except textile bags	40.9	41.8	42.7	41.5	-	3.0	3.3	3.8	3.2	-
265	Paperboard containers and boxes	41.2	41.8	43.4	42.4	-	2.6	2.2	4.0	3.7	-
2651	Folding paperboard boxes	41.7	42.0	44.5	42.6	-	3.7	3.4	5.1	4.1	-
2653	Corrugated and solid fiber boxes	41.6	42.3	43.7	43.1	-	2.1	1.2	4.0	4.0	-
2654	Sanitary food containers	41.3	40.9	44.5	42.3	-	3.1	2.8	3.9	3.2	-
27	PRINTING AND PUBLISHING	37.1	37.2	38.1	37.1	37.0	2.5	2.6	2.9	2.3	-
271	Newspapers	33.6	33.3	34.5	33.0	-	1.8	1.5	2.0	1.2	-
272	Periodicals	36.5	34.9	38.5	37.1	-	2.3	1.7	2.4	1.9	-
273	Books	38.3	38.8	39.8	38.2	-	2.5	3.1	2.8	2.2	-
2731	Book publishing	38.0	38.2	39.5	38.1	-	1.5	1.9	1.8	1.3	-
2732	Book printing	38.5	39.3	40.1	38.4	-	3.5	4.2	3.7	3.1	-
274	Miscellaneous publishing	36.3	35.8	36.2	33.9	-	1.8	2.1	2.1	2.1	-
275	Commercial printing	38.2	38.3	39.0	38.4	-	2.9	2.9	3.2	2.7	-
2751	Commercial printing, letterpress	37.7	37.5	38.9	38.1	-	2.4	2.3	2.9	2.2	-
2752	Commercial printing, lithographic	38.5	38.8	39.1	38.6	-	3.2	3.2	3.3	2.8	-
276	Manifold business forms	40.6	42.1	41.9	40.6	-	3.1	4.4	4.0	3.3	-
278	Blankbooks and bookbinding	39.0	39.1	40.8	39.9	-	2.1	2.7	2.6	2.8	-
279	Printing trade service	37.9	38.7	39.0	37.7	-	3.5	3.8	4.0	3.3	-
28	CHEMICALS AND ALLIED PRODUCTS	41.5	41.7	42.1	41.3	41.4	3.1	3.3	3.4	3.3	-
281	Industrial inorganic chemicals	41.5	41.9	42.1	41.8	-	3.1	3.4	3.1	3.2	-
2819	Industrial inorganic chemicals, nec	41.2	41.6	41.8	41.1	-	3.0	3.3	3.1	3.0	-
282	Plastics materials and synthetics	41.4	41.7	42.1	41.5	-	2.8	3.2	3.1	3.3	-
2821	Plastics materials and resins	42.2	42.7	43.6	43.8	-	3.9	4.3	4.3	4.7	-
2824	Organic fibers, noncellulosic	40.8	40.9	41.3	39.9	-	1.8	2.2	2.0	2.1	-
283	Drugs	41.0	41.6	41.5	40.9	-	3.0	3.1	3.4	3.0	-
2834	Pharmaceutical preparations	40.4	41.1	41.0	40.2	-	3.0	2.9	3.5	3.0	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$305.42	\$296.94	\$326.36	\$315.61	-	\$7.56	\$7.35	\$7.96	\$7.99	-
2841	Soap and other detergents	418.35	412.91	437.75	430.08	-	9.89	9.67	10.30	10.24	-
2844	Toilet preparations	238.00	226.18	259.61	240.59	-	6.01	5.77	6.41	6.45	-
2842, 3	Polishing, sanitation, and finishing preparations	282.10	270.86	306.36	305.52	-	7.16	6.84	7.64	7.60	-
285	Paints and allied products	298.22	285.73	319.30	314.74	-	7.40	7.09	7.75	7.81	-
286	Industrial organic chemicals	413.45	395.90	431.57	421.42	-	9.66	9.25	9.99	10.01	-
2865	Cyclic crudes and intermediates	374.59	367.22	396.77	388.33	-	8.94	8.56	9.38	9.38	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	427.12	406.17	442.83	432.90	-	9.91	9.49	10.18	10.21	-
287	Agricultural chemicals	351.16	334.11	381.02	372.38	-	8.11	7.77	8.64	8.62	-
289	Miscellaneous chemical products	318.16	305.12	340.55	334.82	-	7.76	7.37	8.07	8.01	-
29	PETROLEUM AND COAL PRODUCTS	421.76	342.45	449.02	469.45	\$474.03	10.09	9.46	10.37	11.02	\$11.18
291	Petroleum refining	455.10	355.35	478.03	504.38	-	10.94	10.33	11.04	11.84	-
295	Paving and roofing materials	331.78	302.67	357.72	345.90	-	7.68	6.99	8.13	7.97	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	260.25	251.88	286.62	285.65	280.49	6.49	6.25	6.89	6.95	6.96
301	Tires and inner tubes	391.55	374.24	446.40	462.41	-	9.74	9.15	10.43	10.63	-
302	Rubber and plastics footwear	184.29	179.14	191.76	194.29	-	4.43	4.38	4.47	4.55	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	286.49	286.65	308.48	301.38	-	6.92	6.62	7.31	7.21	-
306	Fabricated rubber products, nec	247.10	237.01	271.26	264.26	-	6.24	5.97	6.60	6.59	-
307	Miscellaneous plastics products	239.60	231.95	262.48	259.26	-	5.99	5.77	6.34	6.37	-
31	LEATHER AND LEATHER PRODUCTS	167.72	163.32	174.54	177.03	179.33	4.57	4.45	4.73	4.85	4.86
311	Leather tanning and finishing	244.61	226.98	261.70	258.95	-	6.10	5.82	6.43	6.49	-
314	Footwear, except rubber	161.33	159.28	166.90	170.61	-	4.42	4.34	4.56	4.70	-
3143	Men's footwear, except athletic	173.35	167.81	181.44	187.62	-	4.66	4.56	4.80	4.99	-
3144	Women's footwear, except athletic	152.08	153.50	157.08	157.25	-	4.26	4.16	4.40	4.48	-
316	Luggage	173.85	161.98	187.86	185.10	-	4.90	4.75	5.05	5.03	-
317	Handbags and personal leather goods	155.09	150.18	160.65	158.55	-	4.32	4.16	4.45	4.53	-
-	TRANSPORTATION AND PUBLIC UTILITIES	352.04	337.73	372.40	366.13	369.57	8.89	8.55	9.31	9.34	9.38
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	425.56	410.13	456.12	-	-	9.92	9.45	10.39	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	218.44	202.90	216.09	218.42	-	6.35	6.13	6.30	6.52	-
411	Local and suburban transportation	275.01	267.74	273.00	270.89	-	6.98	6.83	7.00	7.11	-
413	Intercity highway transportation	350.53	328.35	336.24	376.79	-	9.93	9.89	9.69	10.89	-
42	TRUCKING AND WAREHOUSING	358.94	338.04	386.63	372.48	-	9.18	8.69	9.69	9.60	-
421, 3	Trucking and trucking terminals	367.70	345.43	396.00	380.24	-	9.38	8.88	9.90	9.80	-
422	Public warehousing	248.33	238.70	263.31	264.71	-	6.45	6.20	6.70	6.77	-
46	PIPE LINES, EXCEPT NATURAL GAS	441.00	440.06	449.01	492.59	-	10.50	10.33	10.64	11.35	-
48	COMMUNICATION	339.55	329.97	361.49	356.29	-	8.51	8.27	9.06	9.02	-
481	Telephone communication	350.54	341.70	375.87	369.74	-	8.72	8.50	9.35	9.29	-
4817	Switchboard operating employees ³	233.09	215.14	248.62	246.13	-	7.15	6.94	7.58	7.55	-
4818	Line construction employees ⁴	445.82	439.79	462.40	442.97	-	10.64	10.11	12.43	12.07	-
483	Radio and television broadcasting	283.46	277.25	298.34	295.22	-	7.44	7.22	7.81	7.81	-
49	ELECTRIC, GAS, AND SANITARY SERVICES ..	371.13	357.37	386.05	391.35	-	8.90	8.57	9.28	9.43	-
491	Electric services	387.60	371.03	401.63	403.66	-	9.12	8.73	9.54	9.68	-
492	Gas production and distribution	338.23	323.11	360.14	367.84	-	8.29	7.90	8.72	8.80	-
493	Combination utility services	397.17	386.57	407.77	415.74	-	9.64	9.36	9.97	10.14	-
495	Sanitary services	291.87	281.80	299.94	313.24	-	7.05	6.89	7.28	7.64	-
-	WHOLESALE AND RETAIL TRADE	175.91	170.35	181.76	182.96	184.18	5.48	5.34	5.61	5.79	5.81
50, 51	WHOLESALE TRADE	268.35	258.72	281.64	281.44	280.77	6.97	6.72	7.24	7.31	7.35
50	WHOLESALE TRADE-DURABLE GOODS	270.36	259.85	285.59	283.19	-	6.95	6.68	7.23	7.28	-
501	Motor vehicles and automotive equipment	247.30	237.84	268.42	260.26	-	6.44	6.21	6.83	6.76	-
502	Furniture and home furnishings	234.99	224.17	247.27	250.42	-	6.30	6.01	6.49	6.66	-
503	Lumber and construction materials	271.74	255.18	290.38	292.89	-	7.04	6.68	7.37	7.51	-
504	Sporting goods, toys, and hobby goods	269.56	256.73	291.45	295.64	-	7.15	6.92	7.57	7.78	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	40.4	40.4	41.0	39.5	-	2.8	2.8	2.9	2.6	-
2841	Soap and other detergents	42.3	42.7	42.5	42.0	-	4.1	4.4	4.0	3.8	-
2844	Toilet preparations	39.6	39.2	40.5	37.3	-	2.3	2.0	2.7	2.0	-
2842, 3	Polishing, sanitation, and finishing preparations	39.4	39.6	40.1	40.2	-	1.9	2.0	2.1	2.2	-
285	Paints and allied products	40.3	40.3	41.2	40.3	-	2.3	2.1	2.4	2.5	-
286	Industrial organic chemicals	42.8	42.8	43.2	42.1	-	3.5	3.9	3.7	3.8	-
2865	Cyclic crudes and intermediates	41.9	42.9	42.3	41.4	-	3.2	4.0	3.8	3.9	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	43.1	42.8	43.5	42.4	-	3.6	3.8	3.7	3.8	-
287	Agricultural chemicals	43.3	43.0	44.1	43.2	-	5.0	4.6	5.7	4.7	-
289	Miscellaneous chemical products	41.0	41.4	42.2	41.8	-	3.1	3.2	3.6	3.7	-
29	PETROLEUM AND COAL PRODUCTS	41.8	36.2	43.3	42.6	42.4	3.7	3.3	3.7	3.7	-
291	Petroleum refining	41.6	34.4	43.3	42.6	-	3.3	2.7	3.4	3.5	-
295	Paving and roofing materials	43.2	43.3	44.0	43.4	-	5.8	6.3	5.9	5.6	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	40.1	40.3	41.6	41.1	40.3	2.8	2.9	3.5	3.3	-
301	Tires and inner tubes	40.2	40.9	42.8	43.5	-	2.3	2.4	3.9	4.7	-
302	Rubber and plastics footwear	41.6	40.9	42.9	42.7	-	3.0	3.2	2.9	2.4	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	41.4	43.3	42.2	41.8	-	2.4	3.4	3.2	2.4	-
306	Fabricated rubber products, nec	39.6	39.7	41.1	40.1	-	2.4	2.4	3.3	2.8	-
307	Miscellaneous plastics products	40.0	40.2	41.4	40.7	-	2.9	3.1	3.5	3.3	-
31	LEATHER AND LEATHER PRODUCTS	36.7	36.7	36.9	36.5	36.9	1.5	1.4	1.5	1.5	-
311	Leather tanning and finishing	40.1	39.0	40.7	39.9	-	2.9	2.6	3.2	3.2	-
314	Footwear, except rubber	36.5	36.7	36.6	36.3	-	1.3	1.2	1.3	1.2	-
3143	Men's footwear, except athletic	37.2	36.8	37.8	37.6	-	1.2	1.1	1.4	1.6	-
3144	Women's footwear, except athletic	35.7	36.9	35.7	35.1	-	1.3	1.4	1.3	1.0	-
316	Luggage	36.5	34.1	37.2	36.8	-	2.4	2.5	2.1	2.0	-
317	Handbags and personal leather goods	35.9	36.1	36.1	35.0	-	1.6	1.3	1.8	1.7	-
-	TRANSPORTATION AND PUBLIC UTILITIES	39.6	39.5	40.0	39.2	39.4	-	-	-	-	-
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	43.0	43.4	43.9	-	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	34.4	33.1	34.3	33.5	-	-	-	-	-	-
411	Local and suburban transportation	39.4	39.2	39.0	38.1	-	-	-	-	-	-
413	Intercity highway transportation	35.3	33.2	34.7	34.6	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	39.1	38.9	39.9	38.8	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	39.2	38.9	40.0	38.8	-	-	-	-	-	-
422	Public warehousing	38.5	38.5	39.3	39.1	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	42.0	42.6	42.2	43.4	-	-	-	-	-	-
48	COMMUNICATION	39.9	39.9	39.9	39.5	-	-	-	-	-	-
481	Telephone communication	40.2	40.2	40.2	39.8	-	-	-	-	-	-
4817	Switchboard operating employees ³	32.6	31.0	32.8	32.6	-	-	-	-	-	-
4818	Line construction employees ⁴	41.9	43.5	37.2	36.7	-	-	-	-	-	-
483	Radio and television broadcasting	38.1	38.4	38.2	37.8	-	-	-	-	-	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.7	41.7	41.6	41.5	-	-	-	-	-	-
491	Electric services	42.5	42.5	42.1	41.7	-	-	-	-	-	-
492	Gas production and distribution	40.8	40.9	41.3	41.8	-	-	-	-	-	-
493	Combination utility services	41.2	41.3	40.9	41.0	-	-	-	-	-	-
495	Sanitary services	41.4	40.9	41.2	41.0	-	-	-	-	-	-
-	WHOLESALE AND RETAIL TRADE	32.1	31.9	32.4	31.6	31.7	-	-	-	-	-
50, 51	WHOLESALE TRADE	38.5	38.5	38.9	38.5	38.2	-	-	-	-	-
50	WHOLESALE TRADE-DURABLE GOODS	38.9	38.9	39.5	38.9	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	38.4	38.3	39.3	38.5	-	-	-	-	-	-
502	Furniture and home furnishings	37.3	37.3	38.1	37.6	-	-	-	-	-	-
503	Lumber and construction materials	38.6	38.2	39.4	39.0	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.7	37.1	38.5	38.0	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	\$323.56	\$308.05	\$343.13	\$341.70	-	\$8.15	\$7.74	\$8.41	\$8.50	-
506	Electrical goods	279.69	263.93	300.85	297.14	-	7.19	6.82	7.54	7.58	-
507	Hardware, plumbing, and heating equipment	253.22	242.79	262.58	262.96	-	6.56	5.29	6.75	6.83	-
508	Machinery, equipment, and supplies	282.50	274.92	293.49	292.82	-	7.17	6.96	7.43	7.47	-
509	Miscellaneous durable goods	226.00	218.66	243.12	235.39	-	5.87	5.65	6.11	6.13	-
51	WHOLESALE TRADE-NONDURABLE GOODS	264.98	256.66	276.23	277.83	-	7.01	6.79	7.25	7.35	-
511	Paper and paper products	291.93	289.74	301.62	302.32	-	8.02	7.96	8.13	8.26	-
512	Drugs, proprietaries, and sundries	273.43	260.48	281.24	283.85	-	7.37	7.04	7.54	7.61	-
513	Apparel, piece goods, and notions	231.47	225.57	237.23	241.41	-	6.29	6.18	6.36	6.56	-
514	Groceries and related products	263.15	257.85	277.33	276.70	-	6.98	6.75	7.26	7.32	-
516	Chemicals and allied products	325.80	315.93	343.73	343.98	-	8.29	8.08	8.68	8.82	-
517	Petroleum and petroleum products	342.80	342.31	347.73	359.48	-	8.57	8.39	8.65	8.92	-
518	Beer, wine, and distilled beverages	297.54	281.89	326.37	311.70	-	8.02	7.66	8.68	8.47	-
519	Miscellaneous nondurable goods	219.46	209.03	229.08	228.60	-	5.73	5.53	5.95	6.00	-
52-59	RETAIL TRADE	146.89	142.44	152.20	152.52	\$153.33	4.88	4.78	4.99	5.17	\$5.18
52	BUILDING MATERIALS AND GARDEN SUPPLIES	196.31	187.82	202.95	202.58	-	5.32	5.16	5.50	5.55	-
521	Lumber and other building materials	215.73	205.67	223.10	221.57	-	5.56	5.37	5.75	5.77	-
525	Hardware stores	156.71	149.49	162.24	162.03	-	4.65	4.53	4.80	4.91	-
53	GENERAL MERCHANDISE STORES	139.18	134.52	143.21	141.34	-	4.75	4.72	4.68	5.03	-
531	Department stores	144.54	138.59	148.23	147.49	-	4.95	4.88	4.86	5.23	-
533	Variety stores	114.55	115.89	118.25	112.61	-	3.87	4.01	3.79	4.08	-
539	Misc. general merchandise stores	113.58	106.31	120.74	118.24	-	3.85	3.73	3.92	4.12	-
54	FOOD STORES	195.30	181.44	204.56	205.88	-	6.25	5.91	6.62	6.75	-
541	Grocery stores	203.49	188.79	213.97	214.98	-	6.46	6.09	6.88	6.98	-
546	Retail bakeries	135.83	130.50	136.83	131.97	-	4.62	4.50	4.67	4.73	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	213.38	207.00	216.75	219.54	-	5.69	5.52	5.78	5.87	-
551, 2	New and used car dealers	253.16	242.17	255.08	255.84	-	6.61	6.29	6.66	6.68	-
553	Auto and home supply stores	210.31	207.36	215.33	221.10	-	5.18	5.12	5.33	5.50	-
554	Gasoline service stations	156.45	150.86	163.33	166.73	-	4.47	4.36	4.64	4.75	-
56	APPAREL AND ACCESSORY STORES	122.55	119.28	129.80	127.50	-	4.30	4.26	4.40	4.57	-
561	Men's and boys' clothing and furnishings	156.30	153.28	165.46	160.99	-	4.90	4.82	5.06	5.16	-
562	Women's ready-to-wear stores	109.21	107.87	115.34	113.78	-	4.03	4.01	4.09	4.31	-
565	Family clothing stores	114.36	110.83	121.80	121.93	-	4.15	4.12	4.20	4.45	-
566	Shoe stores	128.39	122.82	139.76	132.02	-	4.46	4.34	4.69	4.60	-
57	FURNITURE AND HOME FURNISHINGS STORES	192.79	190.24	204.63	202.65	-	5.54	5.42	5.83	5.84	-
571	Furniture and home furnishings	195.09	194.30	204.84	200.55	-	5.59	5.52	5.77	5.73	-
572	Household appliance stores	203.90	194.54	215.23	213.41	-	5.76	5.48	6.08	6.08	-
573	Radio, television, and music stores	180.35	176.99	196.72	200.67	-	5.28	5.13	5.82	5.99	-
58	EATING AND DRINKING PLACES ⁵	96.31	92.09	98.28	98.67	-	3.69	3.64	3.78	3.90	-
59	MISCELLANEOUS RETAIL	152.29	149.93	159.08	159.74	-	4.85	4.79	4.91	5.12	-
591	Drug stores and proprietary stores	131.28	131.26	134.24	133.56	-	4.45	4.39	4.52	4.67	-
594	Miscellaneous shopping goods stores	137.11	136.34	142.46	141.00	-	4.54	4.56	4.48	4.70	-
596	Nonstore retailers	191.38	184.24	205.19	202.46	-	5.73	5.60	5.78	6.08	-
598	Fuel and ice dealers	247.40	250.97	267.58	295.26	-	6.36	6.29	6.74	7.03	-
599	Retail stores, nec	160.36	152.19	166.32	165.97	-	4.83	4.64	4.95	5.06	-
-	FINANCE, INSURANCE, AND REAL ESTATE ⁶	209.24	200.19	217.80	221.54	226.04	5.78	5.53	6.00	6.12	6.21
80	BANKING	179.32	172.20	184.55	189.07	-	4.94	4.77	5.07	5.18	-
602	Commercial and stock savings banks	176.42	168.48	181.27	185.28	-	4.86	4.68	4.98	5.09	-
61	CREDIT AGENCIES OTHER THAN BANKS	187.03	181.30	192.72	196.92	-	5.11	4.90	5.28	5.41	-
612	Savings and loan associations	178.23	176.64	181.00	188.34	-	4.91	4.80	5.00	5.16	-
614	Personal credit institutions	181.14	172.02	190.94	193.14	-	4.99	4.70	5.26	5.38	-
63	INSURANCE CARRIERS	236.25	221.41	244.88	249.08	-	6.30	5.92	6.53	6.66	-
631	Life insurance	245.32	222.05	253.05	259.93	-	6.49	5.89	6.73	6.95	-
632	Medical services and health insurance	227.46	216.98	235.16	236.84	-	5.97	5.71	6.14	6.20	-
633	Fire, marine, and casualty insurance	230.53	221.54	239.11	242.80	-	6.25	6.02	6.48	6.58	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	39.7	39.8	40.8	40.2	-	-	-	-	-	-
506	Electrical goods	38.9	38.7	39.9	39.2	-	-	-	-	-	-
507	Hardware, plumbing, and heating equipment	38.6	38.6	38.9	38.5	-	-	-	-	-	-
508	Machinery, equipment, and supplies	39.4	39.5	39.5	39.2	-	-	-	-	-	-
509	Miscellaneous durable goods	38.5	38.7	39.3	38.4	-	-	-	-	-	-
51	WHOLESALE TRADE-NONDURABLE GOODS ..	37.8	37.8	38.1	37.8	-	-	-	-	-	-
511	Paper and paper products	36.4	36.4	37.1	36.6	-	-	-	-	-	-
512	Drugs, proprietaries, and sundries	37.1	37.0	37.3	37.3	-	-	-	-	-	-
513	Apparel, piece goods, and notions	36.8	36.5	37.3	36.8	-	-	-	-	-	-
514	Groceries and related products	37.7	38.2	38.2	37.8	-	-	-	-	-	-
516	Chemicals and allied products	39.3	39.1	39.6	39.0	-	-	-	-	-	-
517	Petroleum and petroleum products	40.0	40.8	40.2	40.3	-	-	-	-	-	-
518	Beer, wine, and distilled beverages	37.1	36.8	37.6	36.8	-	-	-	-	-	-
519	Miscellaneous nondurable goods	38.3	37.8	38.5	38.1	-	-	-	-	-	-
52-59	RETAIL TRADE	30.1	29.8	30.5	29.5	29.6	-	-	-	-	-
52	BUILDING MATERIALS AND GARDEN SUPPLIES	36.9	36.4	36.9	36.5	-	-	-	-	-	-
521	Lumber and other building materials	38.8	38.3	38.8	38.4	-	-	-	-	-	-
525	Hardware stores	33.7	33.0	33.8	33.0	-	-	-	-	-	-
53	GENERAL MERCHANDISE STORES	29.3	28.5	30.6	28.1	-	-	-	-	-	-
531	Department stores	29.2	28.4	30.5	28.2	-	-	-	-	-	-
533	Variety stores	29.6	28.9	31.2	27.6	-	-	-	-	-	-
539	Misc. general merchandise stores	29.5	28.5	30.8	28.7	-	-	-	-	-	-
54	FOOD STORES	31.2	30.7	30.9	30.5	-	-	-	-	-	-
541	Grocery stores	31.5	31.0	31.1	30.8	-	-	-	-	-	-
546	Retail bakeries	29.4	29.0	29.3	27.9	-	-	-	-	-	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	37.5	37.5	37.5	37.4	-	-	-	-	-	-
551, 2	New and used car dealers	38.3	38.5	38.3	38.3	-	-	-	-	-	-
553	Auto and home supply stores	40.6	40.5	40.4	40.2	-	-	-	-	-	-
554	Gasoline service stations	35.0	34.6	35.2	35.1	-	-	-	-	-	-
56	APPAREL AND ACCESSORY STORES	28.5	28.0	29.5	27.9	-	-	-	-	-	-
561	Men's and boys' clothing and furnishings	32.0	31.8	32.7	31.2	-	-	-	-	-	-
562	Women's ready-to-wear stores	27.1	26.9	28.2	26.4	-	-	-	-	-	-
565	Family clothing stores	27.7	26.9	29.0	27.4	-	-	-	-	-	-
566	Shoe stores	28.9	28.3	29.8	28.7	-	-	-	-	-	-
57	FURNITURE AND HOME FURNISHINGS STORES	34.8	35.1	35.1	34.7	-	-	-	-	-	-
571	Furniture and home furnishings	34.9	35.2	35.5	35.0	-	-	-	-	-	-
572	Household appliance stores	35.4	35.5	35.4	35.1	-	-	-	-	-	-
573	Radio, television, and music stores	34.1	34.5	33.8	33.5	-	-	-	-	-	-
58	EATING AND DRINKING PLACES ⁵	26.1	25.3	26.0	25.3	-	-	-	-	-	-
59	MISCELLANEOUS RETAIL	31.4	31.3	32.4	31.2	-	-	-	-	-	-
591	Drug stores and proprietary stores	29.5	29.9	29.7	28.6	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	30.2	29.9	31.8	30.0	-	-	-	-	-	-
596	Nonstore retailers	33.4	32.9	35.5	33.3	-	-	-	-	-	-
598	Fuel and ice dealers	38.9	39.9	39.7	42.0	-	-	-	-	-	-
599	Retail stores, nec	33.2	32.8	33.6	32.8	-	-	-	-	-	-
-	FINANCE, INSURANCE, AND REAL ESTATE ⁶	36.2	36.2	36.3	36.2	36.4	-	-	-	-	-
60	BANKING	36.3	36.1	36.4	36.5	-	-	-	-	-	-
602	Commercial and stock savings banks	36.3	36.0	36.4	36.4	-	-	-	-	-	-
61	CREDIT AGENCIES OTHER THAN BANKS	36.6	37.0	36.5	36.4	-	-	-	-	-	-
612	Savings and loan associations	36.3	36.8	36.2	36.5	-	-	-	-	-	-
614	Personal credit institutions	36.3	36.6	36.3	35.9	-	-	-	-	-	-
63	INSURANCE CARRIERS	37.5	37.4	37.5	37.4	-	-	-	-	-	-
631	Life insurance	37.8	37.7	37.6	37.4	-	-	-	-	-	-
632	Medical service and health insurance	38.1	38.0	38.3	38.2	-	-	-	-	-	-
633	Fire, marine, and casualty insurance	36.9	36.8	36.9	36.9	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
-	SERVICES	\$190.71	\$183.63	\$199.51	\$201.20	\$203.47	\$5.85	\$5.65	\$6.12	\$6.21	\$6.28
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	134.81	125.04	138.95	142.08	-	4.42	4.21	4.71	4.80	-
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	151.42	147.03	157.76	157.98	-	4.48	4.35	4.64	4.73	-
723	Beauty shops	127.25	121.30	136.05	129.50	-	4.27	4.03	4.52	4.45	-
	BUSINESS SERVICES										
73	Advertising	198.06	187.78	202.99	205.40	-	6.02	5.76	6.17	6.32	-
731	Services to buildings	287.74	279.53	299.17	301.61	-	8.06	7.83	8.38	8.52	-
734	Computer and data processing services	141.86	136.18	144.35	144.97	-	5.14	4.97	5.23	5.45	-
737	.....	261.71	250.29	274.91	279.35	-	7.17	6.82	7.41	7.55	-
	AUTO REPAIR, SERVICES, AND GARAGES										
75	Automotive repair shops	229.74	222.97	236.36	238.01	-	6.11	6.01	6.22	6.28	-
753	.....	253.63	246.38	260.63	262.58	-	6.52	6.35	6.70	6.75	-
76	MISCELLANEOUS REPAIR SERVICES	276.21	261.69	286.04	290.58	-	6.94	6.71	7.26	7.47	-
	MOTION PICTURES										
78	Motion picture production and services	213.13	247.92	245.43	245.23	-	7.75	8.95	8.99	8.95	-
781	.....	442.97	467.31	509.95	512.03	-	11.13	12.33	12.91	12.93	-
79	AMUSEMENT AND RECREATION SERVICES	165.69	160.52	177.90	174.93	-	5.56	5.46	5.99	5.95	-
	HEALTH SERVICES										
80	Offices of physicians	186.63	178.76	195.49	199.10	-	5.69	5.45	5.96	6.07	-
801	Offices of dentists	191.48	183.63	203.69	205.38	-	5.91	5.65	6.21	6.30	-
802	Nursing and personal care facilities	161.86	152.11	168.41	173.64	-	5.62	5.30	5.93	6.05	-
805	Hospitals	128.85	125.66	132.25	138.43	-	4.17	4.08	4.28	4.48	-
806	.....	206.99	198.36	216.28	220.32	-	6.07	5.80	6.38	6.48	-
81	LEGAL SERVICES	252.15	245.35	262.05	265.73	-	7.33	7.01	7.64	7.77	-
	MISCELLANEOUS SERVICES										
89	Engineering and architectural services	324.99	306.32	341.13	339.34	-	8.53	8.04	8.93	8.93	-
891	Accounting, auditing, and bookkeeping	353.72	329.18	371.32	369.79	-	9.14	8.64	9.57	9.63	-
893	.....	275.18	270.38	286.88	286.46	-	7.28	6.88	7.51	7.46	-

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

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

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

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

⁵ Money payments only; tips, not included.

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

- Data not available.

p = preliminary.

NOTE: Data from April 1979 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustments" in the Explanatory notes of this publication.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
-	SERVICES	32.6	32.5	32.6	32.4	32.4	-	-	-	-	-
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts	30.5	29.7	29.5	29.6	-	-	-	-	-	-
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	33.8	33.8	34.0	33.4	-	-	-	-	-	
723	Beauty shops	29.8	30.1	30.1	29.1	-	-	-	-	-	
73	BUSINESS SERVICES	32.9	32.6	32.9	32.5	-	-	-	-	-	
731	Advertising	35.7	35.7	35.7	35.4	-	-	-	-	-	
734	Services to buildings	27.6	27.4	27.6	26.6	-	-	-	-	-	
737	Computer and data processing services	36.5	36.7	37.1	37.0	-	-	-	-	-	
75	AUTO REPAIR, SERVICES, AND GARAGES	37.6	37.1	38.0	37.9	-	-	-	-	-	
753	Automotive repair shops	38.9	38.8	38.9	38.9	-	-	-	-	-	
76	MISCELLANEOUS REPAIR SERVICES	39.8	39.0	39.4	38.9	-	-	-	-	-	
78	MOTION PICTURES	27.5	27.7	27.3	27.4	-	-	-	-	-	
781	Motion picture production and services	35.8	37.9	39.5	39.6	-	-	-	-	-	
79	AMUSEMENT AND RECREATION SERVICES	29.8	29.4	29.7	29.4	-	-	-	-	-	
80	HEALTH SERVICES	32.8	32.8	32.8	32.8	-	-	-	-	-	
801	Offices of physicians	32.4	32.5	32.8	32.6	-	-	-	-	-	
802	Offices of dentists	28.8	28.7	28.4	28.7	-	-	-	-	-	
805	Nursing and personal care facilities	30.9	30.8	30.9	30.9	-	-	-	-	-	
806	Hospitals	34.1	34.2	33.9	34.0	-	-	-	-	-	
81	LEGAL SERVICES	34.4	35.0	34.3	34.2	-	-	-	-	-	
89	MISCELLANEOUS SERVICES	38.1	38.1	38.2	38.0	-	-	-	-	-	
891	Engineering and architectural services	38.7	38.1	38.8	38.4	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	37.8	39.3	38.2	38.4	-	-	-	-	-	

ESTABLISHMENT DATA HOURS AND EARNINGS

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

(Employment in thousands—includes both supervisory and nonsupervisory employees)

Item	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Executive Branch													
Total employment	2,720.3	2,770.2	2,783.0	2,789.6	2,697.8	2,702.7	2,707.0	2,717.2	2,709.1	2,749.5	2,815.1	3,049.2	2,908.2
Average weekly hours	39.4	39.4	39.8	39.5	39.4	39.3	39.7	39.5	39.3	39.6	38.9	37.7	36.6
Average overtime hours	1.0	1.0	1.2	1.2	1.4	1.4	1.3	1.4	1.1	1.2	1.2	1.1	1.0
Indexes (1967=100):													
Average weekly earnings	238.9	238.6	241.3	242.5	244.6	254.5	259.5	261.5	259.6	261.1	254.8	244.4	236.8
Average hourly earnings	238.9	238.6	238.9	241.9	244.6	255.1	257.6	260.8	260.3	259.7	258.1	255.4	254.9
Department of Defense													
Total employment	896.6	906.6	908.5	908.5	887.2	887.8	888.0	889.0	885.1	885.4	886.6	888.5	895.1
Average weekly hours	39.9	39.9	40.1	40.0	40.0	38.9	40.0	39.8	39.8	39.9	39.8	39.8	39.8
Average overtime hours .....	.8	.8	.8	.9	1.2	.9	1.1	1.0	.8	.9	1.0	.8	.9
Indexes (1967=100):													
Average weekly earnings	235.2	233.6	233.4	234.5	238.0	240.4	252.3	254.0	249.7	251.7	251.9	251.9	249.2
Average hourly earnings	237.6	236.0	234.6	236.2	239.8	249.0	254.2	255.9	252.9	254.2	255.0	255.0	252.3
Postal Service													
Total employment	659.5	663.2	665.4	665.4	659.0	653.7	673.0	673.5	655.9	656.7	655.7	658.2	659.3
Average weekly hours	39.8	39.6	40.6	39.9	40.0	41.6	41.1	40.7	40.6	41.4	40.6	40.4	40.0
Average overtime hours	1.3	1.3	1.8	1.5	1.9	2.3	2.1	2.7	2.1	2.2	2.1	2.0	1.7
Indexes (1967=100):													
Average weekly earnings	268.1	274.0	281.2	283.0	286.2	300.6	296.1	305.7	304.0	311.6	305.6	303.8	299.5
Average hourly earnings	260.1	267.1	267.4	273.8	276.2	279.0	278.0	289.9	289.0	290.5	290.5	290.2	289.0
Other Agencies													
Total employment	1,164.2	1,200.4	1,209.1	1,215.7	1,151.6	1,161.2	1,146.0	1,154.7	1,168.1	1,207.4	1,272.8	1,502.5	1,353.8
Average weekly hours	38.8	38.8	39.2	38.9	38.7	38.7	38.5	38.3	38.2	38.3	37.3	34.9	32.9
Average overtime hours	1.1	1.0	1.2	1.2	1.4	1.2	1.0	.9	.9	.9	.8	.8	.8
Indexes (1967=100):													
Average weekly earnings	226.0	223.3	226.6	227.1	228.4	243.2	244.4	243.6	244.2	241.9	231.3	211.1	200.2
Average hourly earnings	226.0	223.3	224.3	226.5	229.0	243.8	246.3	246.8	248.0	245.0	240.6	234.7	236.1

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

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

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

Major industry group	Average hourly earnings excluding overtime ¹				
	AVG. 1980	Jan. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
MANUFACTURING	\$7.02	\$6.71	\$7.40	\$7.45	\$7.46
DURABLE GOODS	7.49	7.12	7.92	7.96	7.96
Lumber and wood products	6.33	6.00	6.51	6.59	-
Furniture and fixtures	5.36	5.14	5.54	5.58	-
Stone, clay, and glass products	7.18	6.76	7.48	7.53	-
Primary metal industries	9.43	8.94	9.94	9.95	-
Fabricated metal products	7.18	6.82	7.56	7.60	-
Machinery, except electrical	7.73	7.32	8.20	8.25	-
Electric and electronic equipment	6.77	6.46	7.15	7.21	-
Transportation equipment	8.98	8.47	9.62	9.59	-
Instruments and related products	6.61	6.38	6.91	6.98	-
Miscellaneous manufacturing industries	5.32	5.14	5.55	5.67	-
NONDURABLE GOODS	6.31	6.06	6.61	6.69	6.70
Food and kindred products	6.54	6.31	6.80	6.87	-
Tobacco manufactures	7.49	6.96	7.76	8.16	-
Textile mill products	4.87	4.69	5.11	5.13	-
Apparel and other textile products	4.51	4.38	4.73	4.83	-
Paper and allied products	7.47	7.13	7.83	7.85	-
Printing and publishing	7.29	6.99	7.60	7.67	-
Chemicals and allied products	7.99	7.67	8.34	8.37	-
Petroleum and coal products	9.67	9.05	9.95	10.57	-
Rubber and misc. plastics products	6.27	6.03	6.61	6.68	-
Leather and leather products	4.48	4.37	4.63	4.75	-

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

p=preliminary.

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 ²					
				Worker with no dependents			Married worker with 3 dependents		
	AVG. 1980	Dec. 1980	Jan. 1981P	AVG. 1980	Dec. 1980	Jan. 1981P	AVG. 1980	Dec. 1980	Jan. 1981P
TOTAL PRIVATE:									
Current dollars	\$235.10	\$247.06	\$246.05	\$188.82	\$197.18	\$195.20	\$206.40	\$215.47	\$213.43
1967 dollars	95.18	95.50	94.38	76.45	76.22	74.88	83.56	83.29	81.87
MINING:									
Current dollars	396.58	422.48	427.39	294.41	309.92	310.64	325.84	343.94	345.14
1967 dollars	160.56	163.31	163.94	119.19	119.80	119.16	131.92	132.95	132.39
CONSTRUCTION:									
Current dollars	367.78	383.99	378.25	277.11	286.87	281.47	305.21	317.02	310.87
1967 dollars	148.90	148.43	145.09	112.19	110.89	107.97	123.57	122.54	119.24
MANUFACTURING:									
Current dollars	288.62	313.75	308.03	225.79	242.60	237.35	247.01	265.84	260.07
1967 dollars	116.85	121.28	118.15	91.41	93.78	91.04	100.00	102.76	99.76
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	352.04	372.40	366.13	267.06	279.94	274.15	293.74	308.58	302.11
1967 dollars	142.53	143.95	140.44	108.12	108.21	105.16	118.92	119.28	115.88
WHOLESALE AND RETAIL TRADE:									
Current dollars	175.91	181.76	182.96	145.79	150.17	150.12	162.47	166.41	166.27
1967 dollars	71.22	70.26	70.18	59.02	58.05	57.58	65.78	64.33	63.78
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	209.24	217.80	221.54	170.22	176.46	178.03	186.52	193.18	194.94
1967 dollars	84.71	84.19	84.98	68.91	68.21	68.29	75.51	74.67	74.78
SERVICES:									
Current dollars	190.71	199.51	201.20	156.72	163.13	163.32	172.29	178.94	179.21
1967 dollars	77.21	77.12	77.18	63.45	63.06	62.65	69.75	69.17	68.74
CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)	247.0	258.7	260.7						

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

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

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

p=preliminary (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	AVG. 1980	Feb. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	Hours				
TOTAL PRIVATE	124.5	122.4	127.5	122.3	121.4
GOODS-PRODUCING	103.7	103.6	105.6	100.6	98.5
MINING	165.0	158.9	174.4	172.9	169.8
CONSTRUCTION	126.0	110.5	124.5	109.4	100.8
MANUFACTURING	97.6	100.5	99.9	96.6	95.6
DURABLE GOODS	98.7	103.8	101.4	97.9	96.5
Lumber and wood products.....	98.2	103.3	99.7	95.2	92.8
Furniture and fixtures.....	100.8	106.9	105.5	100.8	100.9
Stone, clay, and glass products.....	101.5	101.4	100.9	94.5	92.6
Primary metal industries.....	83.7	91.5	86.4	85.8	84.7
Fabricated metal products.....	97.4	102.9	99.5	95.3	94.7
Machinery, except electrical.....	112.9	118.2	115.1	112.4	111.9
Electric and electronic equipment.....	104.3	108.9	107.7	105.0	103.2
Transportation equipment.....	85.5	91.4	90.9	85.7	82.5
Instruments and related products.....	126.2	128.5	128.5	126.0	124.2
Miscellaneous manufacturing industries.....	91.8	93.9	89.6	85.8	86.7
NONDURABLE GOODS	95.9	95.7	97.6	94.6	94.4
Food and kindred products.....	94.6	89.6	94.2	90.5	88.2
Tobacco manufactures.....	71.9	67.7	77.8	75.5	72.0
Textile mill products.....	86.6	90.6	87.6	84.7	85.0
Apparel and other textile products.....	88.0	88.9	88.1	85.0	86.0
Paper and allied products.....	98.2	100.1	101.3	98.8	98.0
Printing and publishing.....	104.5	104.6	109.2	104.9	105.6
Chemicals and allied products.....	105.5	106.8	106.3	104.4	106.0
Petroleum and coal products.....	106.2	70.6	116.7	115.4	112.7
Rubber and misc. plastics products.....	133.5	141.0	139.1	136.8	135.0
Leather and leather products.....	64.2	65.1	64.2	62.9	64.3
SERVICE-PRODUCING	139.0	135.5	142.7	137.4	137.3
TRANSPORTATION AND PUBLIC UTILITIES	113.2	112.0	114.4	109.9	110.4
WHOLESALE AND RETAIL TRADE	130.9	127.1	137.2	128.6	127.4
WHOLESALE TRADE	133.5	132.7	135.5	132.4	131.9
RETAIL TRADE	129.9	125.0	137.8	127.1	125.6
FINANCE, INSURANCE, AND REAL ESTATE	150.7	147.6	152.5	151.5	152.6
SERVICES	158.8	154.3	160.5	157.9	158.9

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 workers' on private nonagricultural payrolls by industry division and major manufacturing group—Continued

[1967=100]

Industry division and group	AVG. 1980	Feb. 1980	Dec. 1980	Jan. 1981P	Feb. 1981P
	Payrolls				
TOTAL PRIVATE	309.6	295.0	330.2	320.7	318.8
GOODS-PRODUCING	268.5	256.8	287.8	274.7	267.7
MINING	475.1	443.9	523.8	530.3	524.1
CONSTRUCTION	304.3	258.2	313.2	277.4	253.4
MANUFACTURING	251.1	249.1	272.0	264.0	251.5
DURABLE GOODS	255.5	258.3	278.9	269.2	265.4
Lumber and wood products	272.5	276.6	285.3	274.3	268.9
Furniture and fixtures	237.7	244.7	258.3	247.7	250.3
Stone, clay, and glass products	270.2	256.6	280.3	263.4	258.3
Primary metal industries	244.7	258.5	267.6	265.9	264.9
Fabricated metal products	243.2	246.8	262.6	251.7	251.2
Machinery, except electrical	284.7	285.2	309.2	302.8	302.1
Electric and electronic equipment	261.8	263.5	287.1	280.8	275.2
Transportation equipment	232.5	235.9	267.6	248.6	237.6
Instruments and related products	301.5	297.0	321.8	318.3	314.6
Miscellaneous manufacturing industries	213.0	211.7	218.2	212.3	214.3
NONDURABLE GOODS	243.7	233.5	260.4	255.2	254.7
Food and kindred products	245.9	225.5	254.7	247.4	241.4
Tobacco manufactures	242.9	219.7	274.7	280.7	265.2
Textile mill products	213.3	215.8	226.8	219.7	220.1
Apparel and other textile products	198.4	195.1	209.0	204.9	207.1
Paper and allied products	268.4	261.9	291.8	284.5	282.6
Printing and publishing	240.1	232.6	262.5	253.3	255.7
Chemicals and allied products	282.0	275.5	297.3	293.0	298.6
Petroleum and coal products	299.6	184.9	338.6	355.5	352.3
Rubber and misc. plastics products	315.5	321.0	348.9	346.5	342.2
Leather and leather products	142.0	140.9	146.9	147.6	151.0
SERVICE-PRODUCING	345.0	327.9	366.8	360.3	362.9
TRANSPORTATION AND PUBLIC UTILITIES	310.9	297.2	329.2	317.4	319.9
WHOLESALE AND RETAIL TRADE	318.3	302.6	341.8	330.6	328.5
WHOLESALE TRADE	323.4	312.1	340.9	336.4	336.9
RETAIL TRADE	315.4	297.3	342.4	327.4	323.8
FINANCE, INSURANCE, AND REAL ESTATE	337.3	320.2	354.1	358.8	366.8
SERVICES	405.9	384.5	429.1	428.7	435.9

ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

**C-7. Average weekly hours of production or nonsupervisory workers¹ on private² nonagricultural payrolls
by industry division and major manufacturing group, seasonally adjusted**

Industry	1980											1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. p	Feb. p
TOTAL PRIVATE	35.5	35.4	35.3	35.1	35.0	34.9	35.1	35.2	35.3	35.4	35.4	35.5	35.2
MINING ²	43.2	43.4	42.8	42.7	43.2	41.9	43.1	43.5	43.5	43.5	44.1	43.7	42.8
CONSTRUCTION	37.1	36.6	36.7	36.8	37.1	36.8	36.5	37.4	37.0	37.2	37.1	36.4	35.9
MANUFACTURING	40.1	39.8	39.8	39.3	39.1	39.0	39.4	39.6	39.7	39.9	40.1	40.4	39.8
<i>Overtime hours</i>	3.0	3.1	3.0	2.6	2.4	2.5	2.7	2.7	2.8	2.9	3.1	3.1	2.9
DURABLE GOODS	40.6	40.3	40.3	39.7	39.5	39.4	39.9	40.1	40.1	40.5	40.6	40.9	40.2
<i>Overtime hours</i>	3.1	3.2	3.0	2.5	2.4	2.4	2.6	2.7	2.8	3.0	3.2	3.1	2.9
Lumber and wood products	39.1	38.7	37.3	37.5	37.6	38.1	38.9	38.8	38.7	39.3	39.4	40.0	38.3
Furniture and fixtures	39.0	38.5	38.5	37.6	37.0	36.6	37.4	38.0	38.0	38.0	38.6	38.8	38.7
Stone, clay, and glass products	41.2	40.9	40.6	40.3	40.4	40.2	40.3	40.9	40.9	41.1	41.3	41.5	40.8
Primary metal industries	40.8	40.7	40.6	39.2	38.8	38.6	39.2	39.7	40.1	40.9	41.4	41.3	40.7
Fabricated metal products	40.8	40.7	40.8	39.9	39.7	39.6	40.1	40.4	40.4	40.6	40.6	40.7	40.4
Machinery, except electrical	41.5	41.3	41.5	41.0	40.7	40.6	40.8	40.9	40.7	41.0	41.0	41.3	40.9
Electric and electronic equipment	40.3	40.0	39.9	39.5	39.2	39.0	39.4	39.5	39.9	40.0	40.2	40.4	39.6
Transportation equipment	40.8	40.4	40.5	39.7	39.5	39.6	40.9	40.6	40.8	41.4	41.3	42.2	40.6
Instruments and related products	40.9	40.4	40.7	40.3	40.4	40.1	40.1	40.1	40.2	40.5	40.5	40.9	40.1
Miscellaneous manufacturing ind	39.1	38.6	38.5	38.3	38.2	38.3	38.6	38.9	38.7	38.6	39.0	39.0	39.1
NONDURABLE GOODS	39.4	39.0	39.1	38.9	38.6	38.5	38.7	38.8	39.0	39.0	39.3	39.6	39.3
<i>Overtime hours</i>	2.9	3.0	3.0	2.6	2.5	2.6	2.8	2.7	2.8	2.9	3.0	3.1	3.0
Food and kindred products	39.7	39.3	39.6	39.9	39.6	39.7	39.8	39.7	39.6	39.8	39.8	40.3	40.0
Tobacco manufactures	37.9	37.7	38.2	38.2	37.3	38.5	37.3	37.5	39.5	38.9	37.2	39.6	39.3
Textile mill products	41.1	40.8	40.3	39.7	39.1	38.8	39.2	39.7	39.9	40.0	40.3	40.4	40.0
Apparel and other textile products	35.9	35.3	35.8	35.3	35.2	35.1	35.1	35.1	35.3	35.0	35.6	35.9	35.5
Paper and allied products	42.9	42.6	42.5	41.7	41.4	41.4	41.8	42.2	42.2	42.2	43.0	43.3	43.1
Printing and publishing	37.4	37.2	37.2	37.1	36.8	36.9	37.1	36.9	37.1	36.8	37.4	37.7	37.4
Chemicals and allied products	41.9	41.8	41.5	41.3	41.1	40.8	41.0	41.3	41.4	41.7	41.7	41.6	41.6
Petroleum and coal products	40.7	39.7	41.1	42.5	42.3	42.2	42.2	42.7	43.1	43.2	43.2	43.4	43.4
Rubber and misc. plastics products	40.0	39.9	40.1	39.3	39.2	39.0	40.2	40.1	40.4	40.9	40.9	41.5	40.3
Leather and leather products	37.2	36.9	37.3	36.7	36.7	36.1	36.5	36.2	36.5	36.2	36.6	37.0	37.3
TRANSPORTATION AND PUBLIC UTILITIES	39.4	39.5	39.5	39.3	39.6	39.9	39.7	39.7	39.8	39.7	40.0	39.2	39.4
WHOLESALE AND RETAIL TRADE	32.4	32.3	32.0	32.1	31.9	31.8	32.0	32.1	32.2	32.2	32.1	32.2	32.2
WHOLESALE TRADE	38.8	38.5	38.5	38.6	38.0	38.0	38.2	38.5	38.5	38.6	38.7	38.8	38.6
RETAIL TRADE	30.4	30.3	30.0	30.1	30.0	29.8	30.1	30.1	30.2	30.2	30.0	30.2	30.2
FINANCE, INSURANCE, AND REAL ESTATE ²	36.3	36.3	36.2	36.1	36.4	36.2	36.3	36.1	36.3	36.3	36.3	36.2	36.4
SERVICES	32.7	32.7	32.6	32.5	32.6	32.6	32.6	32.5	32.6	32.7	32.6	32.6	32.6

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

² See footnote 1, table B-5.

p=preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

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

[1967=100]

Industry division and group	1980											1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. P	Feb. P
TOTAL PRIVATE	126.9	126.0	124.8	123.4	122.5	121.9	123.0	123.7	124.5	125.2	125.5	126.6	125.7
GOODS-PRODUCING	109.1	107.3	105.2	102.2	100.3	98.5	100.0	101.5	102.3	103.7	104.4	106.4	103.6
MINING	162.1	162.9	161.7	163.2	166.4	158.7	162.4	166.7	168.0	170.4	175.6	175.8	173.2
CONSTRUCTION	134.7	126.9	124.7	124.3	123.7	120.6	120.5	124.7	124.5	126.0	126.8	134.9	122.6
MANUFACTURING	102.8	101.8	99.8	96.1	93.8	92.5	94.2	95.2	96.1	97.4	98.0	99.0	97.8
DURABLE GOODS	105.8	105.0	101.6	96.6	94.0	92.4	94.1	95.5	95.6	98.5	98.9	99.9	98.2
Lumber and wood products	108.9	106.5	95.3	90.4	89.6	91.5	95.3	96.8	97.0	99.4	100.7	102.6	97.7
Furniture and fixtures	108.9	106.9	106.1	99.0	94.6	91.0	94.8	98.4	99.0	99.5	101.9	102.7	102.7
Stone, clay, and glass products	109.6	108.0	103.5	99.4	96.7	95.1	96.5	99.3	99.5	101.0	101.3	101.8	100.3
Primary metal industries	92.4	91.8	89.9	82.4	77.4	73.4	75.4	77.7	80.5	84.3	86.6	86.6	85.6
Fabricated metal products	104.9	104.6	102.1	95.3	92.5	89.9	92.3	94.5	95.1	96.5	96.7	96.8	96.4
Machinery, except electrical	117.5	116.9	116.1	114.1	110.8	108.8	108.6	110.1	110.2	111.0	110.8	112.1	111.3
Electric and electronic equipment	109.8	109.4	108.1	103.8	100.1	98.5	99.8	100.5	102.1	103.3	104.8	106.2	104.2
Transportation equipment	93.8	93.0	85.0	79.1	79.6	79.8	82.4	82.5	84.7	88.2	85.7	87.4	84.6
Instruments and related products	129.1	128.7	128.4	126.0	125.1	123.8	124.1	123.8	124.2	125.7	126.0	127.5	124.7
Miscellaneous manufacturing ind	98.2	96.9	95.8	91.6	88.5	89.0	88.5	88.9	87.6	88.2	90.3	91.2	90.6
NONDURABLE GOODS	98.4	97.3	97.2	95.4	93.5	92.5	94.3	94.7	95.4	95.8	96.7	97.6	97.1
Food and kindred products	96.2	94.6	94.4	95.1	93.2	93.9	94.8	93.2	93.7	94.6	94.4	95.4	94.7
Tobacco manufactures	70.5	70.2	72.4	73.8	72.1	73.0	68.1	71.1	74.9	75.1	70.5	75.1	74.5
Textile mill products	91.6	91.0	89.4	86.4	82.2	80.5	83.3	84.5	85.3	85.6	86.4	86.6	86.1
Apparel and other textile products	90.5	89.2	89.3	87.2	86.7	86.1	87.2	87.3	87.5	86.7	88.1	89.0	87.9
Paper and allied products	102.5	101.6	100.4	96.7	94.7	93.6	95.0	96.5	97.3	98.6	99.9	100.8	100.5
Printing and publishing	105.9	105.1	104.8	103.6	103.1	102.9	103.8	103.8	104.1	103.8	106.2	106.9	107.0
Chemicals and allied products	108.4	108.0	107.4	106.0	104.4	102.1	102.4	103.9	104.1	105.5	105.7	106.1	107.1
Petroleum and coal products	75.7	71.4	91.6	113.8	113.3	113.9	114.8	116.1	117.2	117.5	118.4	121.6	121.6
Rubber and misc. plastics products	142.2	141.4	139.9	128.5	123.6	119.2	127.5	130.1	132.8	135.1	137.0	139.5	136.2
Leather and leather products	66.4	65.6	66.0	63.6	63.3	59.5	63.9	63.7	64.2	63.7	64.1	65.1	65.7
SERVICE-PRODUCING	139.2	139.0	138.3	138.1	137.9	138.2	139.0	139.2	139.9	140.2	140.2	140.7	141.0
TRANSPORTATION AND PUBLIC UTILITIES	113.7	113.9	113.5	112.6	112.6	112.8	112.6	112.7	113.5	112.8	113.8	111.4	111.9
WHOLESALE AND RETAIL TRADE	132.7	131.8	130.4	130.3	129.1	128.9	130.4	130.9	131.4	131.6	130.9	132.5	132.8
WHOLESALE TRADE	135.6	134.5	134.1	133.7	130.8	131.0	131.9	133.3	133.6	134.0	134.5	134.8	134.6
RETAIL TRADE	131.5	130.7	128.9	129.0	128.5	128.0	129.8	130.0	130.6	130.6	129.4	131.5	132.1
FINANCE, INSURANCE, AND REAL ESTATE	149.3	149.6	149.4	149.7	151.2	151.1	151.8	151.1	152.4	152.6	153.2	153.1	154.1
SERVICES	157.2	157.6	157.6	157.4	157.8	159.1	159.4	159.3	160.0	161.2	161.4	161.9	162.0

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

p=preliminary.

ESTABLISHMENT DATA SEASONALLY ADJUSTED

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

Industry	1980												1981	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. ^P	Feb. ^P	
Hourly Earnings Index² (1967=100)														
TOTAL PRIVATE (In current dollars)	242.4	245.2	246.2	248.3	250.9	252.1	254.0	255.4	257.9	260.9	261.9	264.2	265.6	
MINING	278.5	280.9	283.7	284.2	286.3	285.3	288.9	290.4	294.4	298.7	302.3	306.6	307.5	
CONSTRUCTION	229.8	232.2	233.0	234.2	235.3	236.7	239.0	239.3	241.6	243.0	245.3	247.7	246.2	
MANUFACTURING	247.8	250.2	252.4	255.0	258.3	260.6	262.4	264.5	266.6	268.9	270.4	272.3	273.3	
TRANSPORTATION AND PUBLIC UTILITIES	262.4	265.9	267.2	268.7	270.6	272.8	273.2	274.0	280.2	283.4	284.1	285.5	287.1	
WHOLESALE AND RETAIL TRADE	235.2	237.8	238.0	239.8	241.8	243.5	245.3	246.5	247.7	250.9	250.9	254.1	255.4	
FINANCE, INSURANCE, AND REAL ESTATE	221.1	225.7	224.9	226.3	230.2	229.0	232.7	233.1	234.8	239.3	238.0	240.9	244.0	
SERVICES	239.7	242.7	243.0	245.7	248.4	247.6	249.8	251.7	254.2	258.5	259.4	261.2	264.2	
TOTAL PRIVATE (In 1967 dollars) ³	102.2	102.1	101.5	101.5	101.6	102.1	102.0	101.5	101.4	101.5	100.8	100.9	-	
Average hourly earnings														
TOTAL PRIVATE	\$6.45	\$6.51	\$6.54	\$6.57	\$6.62	\$6.67	\$6.71	\$6.77	\$6.83	\$6.91	\$6.95	\$7.02	\$7.03	
MINING ⁴	8.90	8.95	9.10	9.08	9.16	9.08	9.18	9.32	9.37	9.51	9.58	9.78	9.84	
CONSTRUCTION	9.64	9.75	9.79	9.83	9.89	9.94	10.04	10.05	10.14	10.21	10.32	10.39	10.37	
MANUFACTURING	6.99	7.06	7.11	7.15	7.22	7.30	7.36	7.41	7.49	7.58	7.63	7.68	7.71	
TRANSPORTATION AND PUBLIC UTILITIES ⁴	8.58	8.62	8.71	8.72	8.75	8.90	8.95	9.04	9.20	9.28	9.31	9.34	9.38	
WHOLESALE AND RETAIL TRADE	5.31	5.37	5.38	5.42	5.45	5.50	5.53	5.56	5.59	5.66	5.67	5.72	5.76	
FINANCE, INSURANCE, AND REAL ESTATE ⁴	5.60	5.68	5.68	5.70	5.77	5.77	5.82	5.87	5.91	6.01	6.00	6.12	6.21	
SERVICES	5.64	5.72	5.72	5.78	5.86	5.87	5.91	5.93	5.99	6.08	6.10	6.15	6.21	
Average weekly earnings														
TOTAL PRIVATE:														
Current dollars	228.98	230.45	230.86	230.61	231.70	232.78	235.52	238.30	241.10	244.61	246.03	249.21	247.46	
1967 dollars ³	96.53	95.90	95.20	94.28	93.88	94.24	94.62	94.68	94.81	95.10	94.70	95.19	-	
Real spendable earnings (married worker with 3 dependents, 1967 dollars) ^{3,5}	85.06	84.42	83.79	82.99	82.59	82.85	83.05	82.97	82.95	83.06	82.64	82.43	-	

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

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

³ The CPI-W is used to deflate these series to 1967 dollars.

⁴ See footnote 1, table B-5.

⁵ See footnote 2, table C-5.

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		
	DECEMBER 1980	JANUARY p1981	FEBRUARY p1981	Feb. 1980 to Feb. 1981	Dec. 1980 to Jan. 1981	Jan. 1981 to Feb. 1981
TOTAL	171,225	172,887	171,161	-0.7	1.0	-1.0
PRIVATE SECTOR	139,486	141,051	139,799	-0.4	1.1	-0.9
MINING	2,503	2,579	2,514	6.5	3.1	-2.5
CONSTRUCTION	8,705	9,234	8,407	-6.4	6.1	-9.0
MANUFACTURING	42,293	42,711	42,272	-3.3	1.0	-1.0
DURABLE GOODS	25,694	25,947	25,612	-4.8	1.0	-1.3
NONDURABLE GOODS	16,600	16,764	16,660	-0.9	1.0	-0.6
TRANSPORTATION AND PUBLIC UTILITIES	10,645	10,611	10,597	-1.1	-0.3	-0.1
WHOLESALE AND RETAIL TRADE	34,658	35,120	35,102	0.6	1.3	-0.1
FINANCE, INSURANCE, AND REAL ESTATE	9,921	9,926	10,002	3.7	0.0	0.8
SERVICES	30,761	30,870	30,904	3.2	0.4	0.1
GOVERNMENT	31,738	31,836	31,362	-2.0	0.3	-1.5

¹ Data refer to hours of all employees—production workers, nonsupervisory workers and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods for Surveys and Studies*, BLS Bulletin 1010—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										
			1978			1979				1980			
	1979	1980	II	III	IV	I	II	III	IV	I	II	III	IV
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	99.4	99.0	99.9	100.0	99.9	99.7	99.6	99.2	99.0	99.3	98.8	99.2	r98.5
Output	107.7	r106.7	104.6	105.3	106.7	107.7	107.1	107.7	108.2	108.7	105.4	105.7	r107.0
Hours	108.4	107.8	104.8	105.4	106.8	108.1	107.5	108.6	109.3	109.5	106.7	106.5	108.7
Compensation per hour	119.2	131.1	107.1	109.4	111.9	115.0	118.0	120.5	123.0	126.0	129.7	132.8	135.5
Real compensation per hour	99.5	96.4	100.5	100.5	100.5	100.5	100.1	99.0	97.9	96.5	96.2	96.8	95.9
Unit labor costs	119.9	132.4	107.3	109.4	112.1	115.4	118.5	121.4	124.2	127.0	131.3	133.9	r137.6
Unit nonlabor payments	110.9	r118.1	104.8	106.7	109.1	109.6	110.4	111.5	112.3	115.3	116.0	119.8	r121.7
Implicit price deflator	116.9	127.6	106.4	108.5	111.1	113.4	115.8	118.1	120.2	123.0	126.1	129.1	r132.2
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	99.0	r98.4	99.9	99.9	99.8	99.5	99.1	98.7	98.6	98.6	97.9	98.8	r98.3
Output	107.7	106.7	104.9	105.5	106.8	107.9	107.1	107.8	108.2	108.5	105.1	105.8	r107.2
Hours	108.8	r108.4	105.0	105.6	107.1	108.4	108.1	109.2	109.7	110.0	107.3	107.1	r109.0
Compensation per hour	118.8	130.4	107.2	109.4	111.9	114.9	117.6	119.9	122.7	125.6	129.0	131.9	135.0
Real compensation per hour	99.2	95.9	100.6	100.5	100.5	100.4	99.8	98.6	97.7	96.2	95.7	96.1	95.6
Unit labor costs	120.0	132.4	107.3	109.5	112.2	115.4	118.7	121.5	124.4	127.4	131.8	133.5	r137.3
Unit nonlabor payments	108.5	r117.4	103.2	105.1	107.0	107.1	107.7	109.3	110.2	114.0	115.2	119.2	r121.0
Implicit price deflator	116.2	r127.4	105.9	108.0	110.5	112.6	115.1	117.4	119.7	122.9	126.3	128.8	r131.9
MANUFACTURING:													
Output per hour of all persons	r101.9	r101.4	r100.6	r101.7	r102.0	r101.4	r102.3	r101.9	r101.9	r101.7	r100.5	100.2	r103.0
Output	r108.6	r103.7	r104.7	r106.6	r108.3	r109.3	r108.5	r108.5	r108.3	r108.0	r101.7	99.7	r105.3
Hours	106.6	102.2	104.0	104.8	106.2	107.7	106.1	106.5	106.3	106.2	101.2	99.5	r102.1
Compensation per hour	118.7	131.2	106.9	109.1	111.5	114.5	118.5	119.7	122.0	125.0	129.6	133.5	136.8
Real compensation per hour	99.1	96.5	100.3	100.2	100.1	100.1	100.5	98.4	97.2	95.7	96.1	97.3	r96.9
Unit labor costs	r116.5	r129.3	r106.2	r107.3	r109.3	r112.9	r115.9	r117.5	r119.8	r122.9	r128.9	133.2	r132.8
DURABLE GOODS													
Output per hour of all persons	100.7	r99.2	r101.1	r101.8	r101.9	r100.7	r101.5	r100.0	r100.1	r99.5	r98.7	97.7	r100.9
Output	110.2	r102.8	r106.3	r108.7	r110.9	r111.7	r110.3	r109.5	r109.1	r108.3	r100.7	r97.8	r104.4
Hours	109.4	103.6	105.2	106.8	108.9	110.8	108.7	109.5	108.9	108.8	102.1	100.1	r103.4
Compensation per hour	118.3	r131.2	106.4	108.5	111.1	114.1	118.4	119.2	121.3	124.8	129.6	133.7	137.3
Real compensation per hour	98.7	r96.5	99.9	99.7	99.7	99.7	100.4	98.0	96.6	95.5	96.1	97.4	97.2
Unit labor costs	117.5	r132.2	r105.3	r106.6	r109.0	r113.3	r116.6	r119.2	r121.1	r125.4	r131.4	r136.8	r136.1
NONDURABLE GOODS													
Output per hour of all persons	r103.9	r104.8	r99.9	r101.5	r102.2	r102.6	103.4	r104.9	r104.7	r105.3	r103.4	r104.1	106.3
Output	r106.4	r105.0	r102.3	r103.3	r104.4	r105.7	105.8	r107.0	r107.1	r107.6	r103.1	r102.6	r106.6
Hours	102.4	100.2	102.4	101.8	102.2	103.0	102.3	102.0	102.2	102.3	99.7	98.6	r100.2
Compensation per hour	118.7	130.5	107.4	109.6	111.6	114.5	118.1	119.7	122.7	124.6	129.3	133.1	r135.5
Real compensation per hour	99.1	96.0	100.8	100.6	100.2	100.1	100.2	98.4	97.7	95.4	95.8	97.0	r95.9
Unit labor costs	r114.3	r124.6	r107.5	r107.9	109.2	r111.6	114.2	r114.2	r117.1	r118.4	r125.0	r127.8	r127.4
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	r100.3	p100.6	100.8	100.4	100.5	r100.6	r100.6	r100.3	r99.7	100.0	99.8	101.5	N.A.
Output	109.3	p108.4	105.9	106.4	108.0	109.5	109.0	109.4	109.3	109.9	106.8	107.7	N.A.
Hours	109.0	p107.8	105.1	105.9	107.5	108.9	108.4	r109.1	109.7	110.0	107.0	106.1	N.A.
Compensation per hour	r118.6	p130.4	r107.0	109.2	111.5	r114.5	r117.5	119.8	r122.4	125.3	128.9	132.1	N.A.
Real compensation per hour	99.0	p 95.9	100.5	100.2	100.1	r100.1	99.6	r98.5	r97.5	r95.9	95.6	96.3	N.A.
Total unit costs	116.8	p129.8	105.4	107.6	109.6	112.2	115.3	118.2	121.3	124.2	129.2	131.1	N.A.
Unit labor costs	118.2	p129.6	106.2	108.7	111.0	113.8	116.8	119.5	122.8	125.4	129.1	130.2	N.A.
Unit nonlabor costs	112.7	p130.4	103.0	104.4	106.0	107.8	111.2	114.6	117.2	120.9	129.3	133.8	N.A.
Unit profits	99.0	p 88.9	105.5	105.9	108.9	105.6	100.7	97.5	92.2	95.5	83.4	89.1	N.A.
Implicit price deflator	114.8	p125.2	105.4	107.4	109.6	111.5	113.7	115.9	118.1	121.0	124.1	126.4	N.A.

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

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 1979	III 1979	IV 1979	I 1980	II 1980	III 1980	III 1978	IV 1978	I 1979	II 1979	III 1979	IV 1979
	to III 1979	to IV 1979	to I 1980	to II 1980	to III 1980	to IV 1980	to III 1978	to IV 1978	to I 1980	to II 1980	to III 1980	to IV 1980
PRIVATE BUSINESS SECTOR:												
Output per hour of all persons	-1.5	-1.1	1.3	-1.9	1.5	r-2.8	-0.7	-0.9	-0.4	-0.8	0.0	r-0.5
Output	2.4	1.7	1.8	-11.5	1.1	r5.2	2.3	1.4	0.9	-1.6	-1.9	r-1.1
Hours	4.0	2.8	0.5	-9.9	-0.4	r8.2	3.1	2.4	1.3	-0.8	-1.9	-0.6
Compensation per hour	8.5	8.6	10.4	12.2	9.7	r8.4	10.1	9.9	9.6	9.9	10.2	10.2
Real compensation per hour	-4.4	-4.4	-5.6	-1.3	2.4	-3.4	-1.5	-2.5	-4.0	-3.9	-2.3	-2.0
Unit labor costs	10.1	9.8	9.0	14.4	8.1	r11.5	10.9	10.9	10.0	10.8	10.3	r10.7
Unit nonlabor payments	4.2	2.6	11.3	2.6	13.6	r 6.4	4.6	2.9	5.2	5.1	7.4	r8.4
Implicit price deflator	8.2	7.4	9.7	10.5	9.8	r9.9	8.8	8.2	8.4	9.0	9.4	r10.0
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	-1.4	-0.3	0.0	-3.0	r3.8	r-1.9	-1.2	-1.1	-0.9	-1.2	0.1	r-0.3
Output	2.6	1.5	1.4	-12.1	2.9	r5.4	2.2	1.3	0.6	-1.9	-1.8	r-0.9
Hours	4.1	1.8	1.4	-9.4	-0.9	r7.5	3.4	2.4	1.5	-0.7	-1.9	r-0.6
Compensation per hour	8.1	9.6	9.9	11.2	r9.3	9.6	9.6	9.6	9.4	9.7	10.0	10.0
Real compensation per hour	-4.7	-3.5	-6.0	-2.2	2.0	-2.3	-1.9	-2.7	-4.2	-4.1	-2.5	-2.2
Unit labor costs	9.7	9.9	9.9	14.6	5.3	r11.8	10.9	10.9	10.4	11.0	9.9	r10.4
Unit nonlabor payments	5.9	3.3	14.6	4.2	14.9	r 6.1	4.0	3.0	6.4	6.9	9.1	r19.8
Implicit price deflator	8.5	7.8	11.3	11.3	8.2	r10.0	8.7	8.3	9.1	9.7	9.6	10.2
MANUFACTURING:												
Output per hour of all persons	r-1.6	r0.1	r-0.7	r-4.6	r-1.1	r11.7	r0.2	r-0.1	r0.3	r-1.7	r-1.6	r1.1
Output	r-0.1	r-0.8	r-1.0	r-21.4	r-7.6	r24.2	r1.8	r0.0	r-1.1	r-6.3	r-8.1	r-2.8
Hours	1.5	-0.9	-0.3	-17.6	-6.6	r11.2	1.7	0.1	-1.4	-4.7	-6.6	r-3.9
Compensation per hour	3.9	8.1	10.1	15.5	12.7	r10.3	9.7	9.4	9.1	9.3	11.6	12.1
Real compensation per hour	-8.4	-4.8	-5.9	1.6	5.2	r-1.8	-1.8	-2.9	-4.4	-4.4	-1.1	-0.3
Unit labor costs	r5.6	r8.0	r10.8	r21.1	r14.0	r-1.3	r9.5	r9.6	r8.8	r11.2	r13.4	r10.9
DURABLE GOODS												
Output per hour of all persons	r-5.9	r0.5	r-2.5	r-3.4	r-3.8	r13.8	r-1.8	r-1.7	r-1.2	r-2.8	r-2.3	0.8
Output	r-3.0	r-1.5	r-3.0	r-25.0	r-11.3	r29.9	r0.7	r-1.6	r-3.0	r-8.7	r-10.7	r-4.3
Hours	3.0	-2.0	-0.5	-22.4	-7.8	r14.1	2.6	0.1	-1.9	-6.0	-8.6	r-5.1
Compensation per hour	2.8	7.2	12.0	16.5	13.1	11.4	9.8	9.2	9.3	9.5	12.2	13.2
Real compensation per hour	-9.4	-5.6	r-4.2	2.5	5.6	r-0.8	-1.7	-3.2	-4.2	-4.3	-0.6	0.7
Unit labor costs	r9.2	r6.7	r14.8	r20.6	r17.6	r-2.2	r11.8	r11.1	r10.7	r12.7	r14.8	r12.4
NONDURABLE GOODS												
Output per hour of all persons	r5.6	r-0.7	r2.1	r-6.9	r2.8	r8.9	r3.3	r2.4	r2.6	-0.1	r-0.7	r1.6
Output	r4.5	r0.2	r2.1	r-15.7	r-2.0	r16.5	r3.6	r2.5	r1.9	-2.6	r-4.1	r-0.4
Hours	-1.0	0.8	0.0	-9.5	-4.7	r7.0	0.2	0.1	-0.7	-2.5	-3.4	r-2.0
Compensation per hour	5.7	10.1	6.6	15.7	12.4	r7.5	9.3	9.9	8.9	9.4	11.1	r10.5
Real compensation per hour	-6.8	-3.0	-8.8	1.7	4.9	r-4.2	-2.2	-2.5	-4.7	-4.3	-1.5	r-1.8
Unit labor costs	r0.1	r10.7	r4.4	r24.3	r9.3	r-1.3	r5.8	r7.3	r6.1	r9.5	r12.0	r8.8
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	-1.1	r-2.4	r1.2	-0.5	r6.9	N.A.	r-0.1	r-0.8	r-0.6	-0.7	r1.2	N.A.
Output	1.6	-0.4	2.2	-10.9	3.4	N.A.	2.9	1.2	0.4	-2.0	-1.6	N.A.
Hours	2.8	2.1	r1.0	-10.5	r-3.3	N.A.	r3.0	r2.0	r1.0	-1.3	-2.8	N.A.
Compensation per hour	8.2	8.9	r9.8	12.0	10.3	N.A.	r9.8	r9.8	9.5	r9.7	10.3	N.A.
Real compensation per hour	-4.6	-4.1	r-6.1	-1.5	3.0	N.A.	r-1.7	r-2.6	-4.1	r-4.1	-2.2	N.A.
Total unit costs	10.3	11.0	9.8	17.0	6.2	N.A.	9.9	10.7	10.6	12.0	11.0	N.A.
Unit labor costs	9.5	11.6	8.6	12.6	3.2	N.A.	9.9	10.7	10.1	10.5	8.9	N.A.
Unit nonlabor costs	12.8	9.3	13.5	30.6	14.7	N.A.	9.8	10.6	12.2	16.3	16.8	N.A.
Unit profits	-12.0	-20.2	15.3	-41.9	30.3	N.A.	-7.9	-15.4	-9.5	-17.2	-8.6	N.A.
Implicit price deflator	7.9	7.8	r10.3	10.5	7.9	N.A.	7.9	7.8	8.5	9.1	9.1	N.A.

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

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		
	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
ALABAMA ¹	\$257.86	\$281.54	\$278.29	40.8	41.1	40.1	\$6.32	\$6.85	\$6.94
Birmingham	303.14	320.49	317.56	40.8	41.3	40.3	7.43	7.75	7.88
Mobile	315.38	355.32	350.14	40.8	42.2	41.0	7.73	8.42	8.54
ALASKA	409.89	(*)	(*)	39.0	(*)	(*)	10.51	(*)	(*)
ARIZONA	280.30	320.25	310.44	40.1	40.9	39.8	6.99	7.83	7.80
Phoenix	280.38	320.26	317.60	40.4	41.7	41.3	6.94	7.68	7.59
Tucson	251.29	314.41	288.29	38.6	39.4	36.4	6.51	7.98	7.92
ARKANSAS ¹	(*)	242.41	239.55	(*)	40.2	39.4	(*)	6.03	6.08
Fayetteville—Springdale	(*)	224.40	220.18	(*)	40.8	39.6	(*)	5.50	5.56
Fort Smith	(*)	237.55	231.87	(*)	39.2	38.2	(*)	6.06	6.07
Little Rock—North Little Rock	(*)	264.26	272.44	(*)	39.5	39.2	(*)	6.69	6.95
Pine Bluff	(*)	345.10	323.53	(*)	43.3	41.8	(*)	7.97	7.74
CALIFORNIA	288.46	327.65	322.34	39.3	40.5	39.6	7.34	8.09	8.14
Anaheim—Santa Ana—Garden Grove	267.87	315.59	314.11	40.1	41.2	40.9	6.68	7.66	7.68
Bakersfield	314.41	350.51	354.55	39.4	40.9	40.8	7.98	8.57	8.69
Fresno	265.10	290.31	288.04	38.7	39.3	38.0	6.85	7.58	7.58
Los Angeles—Long Beach	273.74	312.89	309.25	39.5	40.9	39.8	6.93	7.65	7.77
Modesto	275.66	312.84	310.42	38.5	39.7	38.9	7.16	7.88	7.98
Oxnard—Simi Valley—Ventura	249.22	280.19	276.36	38.4	40.2	39.2	6.49	6.97	7.05
Riverside—San Bernardino—Ontario	299.02	310.05	324.00	39.5	39.0	40.0	7.57	7.95	8.10
Sacramento	311.56	334.93	336.40	38.8	38.9	38.8	8.03	8.61	8.67
Salinas—Seaside—Monterey	270.45	277.97	280.55	36.4	36.1	36.2	7.43	7.70	7.75
San Diego	269.81	307.71	301.82	38.6	39.5	38.4	6.99	7.79	7.86
San Francisco—Oakland	341.82	398.78	391.05	39.2	40.2	39.5	8.72	9.92	9.90
San Jose	313.43	338.64	335.36	40.6	39.7	39.5	7.72	8.53	8.45
Santa Barbara—Santa Maria—Lompoc	257.69	285.05	281.47	37.4	39.7	38.4	6.89	7.18	7.33
Santa Rosa	254.88	285.92	280.44	37.1	38.9	38.0	6.87	7.35	7.38
Stockton	310.06	351.08	339.16	39.1	40.4	39.3	7.93	8.69	8.63
Vallejo—Fairfield—Napa	296.00	346.63	332.63	37.9	38.6	37.5	7.81	8.98	8.87
COLORADO	295.40	314.41	314.82	40.3	39.9	39.8	7.33	7.88	7.91
Denver—Boulder	296.68	313.63	312.05	40.2	39.7	39.4	7.38	7.90	7.92
CONNECTICUT	290.11	314.71	314.91	42.6	42.3	42.1	6.81	7.44	7.48
Bridgeport	306.42	330.81	327.17	43.9	43.3	42.6	6.98	7.64	7.68
Hartford	321.10	343.57	338.44	43.1	43.0	42.2	7.45	7.99	8.02
New Britain	303.20	324.94	328.02	43.5	42.2	42.6	6.97	7.70	7.70
New Haven—West Haven	281.11	297.23	281.24	41.4	42.1	39.5	6.79	7.06	7.12
Stamford	284.26	287.99	285.89	43.8	41.2	40.9	6.49	6.99	6.99
Waterbury	247.28	269.44	270.72	41.7	42.7	42.3	5.93	6.31	6.40
DELAWARE ¹	291.12	332.42	318.79	39.5	41.5	39.7	7.37	8.01	8.03
Wilmington	332.33	379.66	365.60	39.8	41.0	40.0	8.35	9.26	9.14
DISTRICT OF COLUMBIA:									
Washington SMSA	330.86	332.93	(*)	40.3	39.4	(*)	8.21	8.45	(*)
FLORIDA ¹	233.38	263.52	262.08	40.8	42.3	41.6	5.72	6.23	6.30
Fort Lauderdale—Hollywood	219.38	246.86	242.40	39.6	41.7	40.0	5.54	5.92	6.06
Jacksonville	262.01	301.18	315.03	39.4	41.6	42.4	6.65	7.24	7.43
Lakeland—Winter Haven	246.45	310.88	313.21	42.2	46.4	47.6	5.84	6.70	6.58
Miami	196.50	220.13	218.95	39.3	41.3	40.1	5.00	5.33	5.46
Orlando	263.77	275.14	282.05	43.1	42.2	42.8	6.12	6.52	6.59
Pensacola	283.50	344.06	326.66	40.5	44.8	42.7	7.00	7.68	7.65
Tampa—St. Petersburg	247.71	270.30	257.04	42.2	42.5	40.8	5.87	6.36	6.30
West Palm Beach—Boca Raton	282.09	294.13	289.30	43.6	43.9	43.5	6.47	6.70	6.59
GEORGIA ¹	222.86	250.30	248.84	40.3	41.1	40.2	5.53	6.09	6.19
Atlanta	247.29	286.56	286.04	38.7	39.8	39.4	6.39	7.20	7.26
Savannah	312.61	338.57	341.39	43.6	43.8	43.6	7.17	7.73	7.83
HAWAII	237.10	286.34	281.05	35.6	40.5	38.5	6.66	7.07	7.30
Honolulu	240.58	284.80	269.74	35.8	40.0	36.8	6.72	7.12	7.33
IDAHO	266.01	302.25	307.13	37.1	38.7	38.2	7.17	7.81	8.04
Boise City	222.14	258.42	237.64	35.6	36.5	33.9	6.24	7.08	7.01

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		
	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
ILLINOIS ¹	\$307.89	\$348.88	\$342.00	40.3	40.9	40.0	\$7.64	\$8.53	\$8.55
Bloomington—Normal ¹	282.41	276.74	298.10	41.9	37.6	39.8	6.74	7.36	7.49
Champaign—Urbana—Rantoul ¹	234.50	249.74	290.22	32.3	34.4	38.8	7.26	7.26	7.48
Chicago SMSA ¹	291.05	317.19	309.66	40.2	40.1	39.0	7.24	7.91	7.94
Davenport—Rock Island—Moline ¹	334.66	394.29	403.30	37.9	39.0	39.5	8.83	10.11	10.21
Decatur ¹	307.88	368.64	379.66	35.8	38.4	39.1	8.60	9.60	9.71
Peoria ¹	385.97	424.91	423.84	40.8	40.2	39.1	9.46	10.57	10.84
Rockford ¹	306.27	330.46	337.02	41.0	41.0	40.9	7.47	8.06	8.24
Springfield ¹	294.14	342.50	350.67	38.3	40.2	40.4	7.68	8.52	8.68
INDIANA ¹	323.99	378.64	372.69	39.9	41.7	41.0	8.12	9.08	9.09
Gary—Hammond—East Chicago	427.17	491.88	(*)	39.7	41.3	(*)	10.76	11.91	(*)
Indianapolis	329.27	383.72	(*)	40.8	42.4	(*)	8.07	9.05	(*)
IOWA	333.66	367.83	372.49	40.2	40.2	40.4	8.30	9.15	9.22
Cedar Rapids	341.04	385.56	377.98	42.0	41.4	41.4	8.12	9.18	9.13
Des Moines	346.58	374.46	381.64	40.3	39.5	40.3	8.60	9.48	9.47
Dubuque	412.08	410.55	426.92	40.8	39.1	40.2	10.10	10.50	10.62
Sioux City	308.73	325.61	342.26	41.0	40.1	40.6	7.53	8.12	8.43
Waterloo—Cedar Falls	419.02	489.85	502.24	41.0	39.6	40.7	10.22	12.37	12.34
KANSAS	289.17	321.72	314.16	40.5	42.0	40.8	7.14	7.66	7.70
Topeka	298.56	327.65	319.16	40.4	40.5	39.5	7.39	8.09	8.08
Wichita	313.24	362.08	353.05	41.0	42.2	41.1	7.64	8.58	8.59
KENTUCKY ¹	272.92	313.24	304.00	39.1	41.0	40.0	6.98	7.64	7.60
Lexington—Fayette ¹	264.62	297.04	292.61	38.8	39.5	38.3	6.82	7.52	7.64
Louisville ¹	311.26	376.42	364.18	39.5	42.2	40.6	7.88	8.92	8.97
LOUISIANA ¹	(*)	343.83	339.89	(*)	42.5	41.5	(*)	8.09	8.19
Baton Rouge ¹	(*)	435.76	439.56	(*)	41.9	42.8	(*)	10.40	10.27
New Orleans ¹	(*)	368.02	358.64	(*)	45.1	42.9	(*)	8.16	8.36
Shreveport ¹	(*)	311.67	285.76	(*)	41.5	39.8	(*)	7.51	7.18
MAINE ¹	234.90	257.58	260.58	40.5	40.5	40.4	5.80	6.36	6.45
Lewiston—Auburn ¹	193.05	206.82	205.09	39.0	38.3	37.7	4.95	5.40	5.44
Portland ¹	223.41	248.62	246.64	40.4	40.1	39.4	5.53	6.20	6.26
MARYLAND	294.59	329.99	320.39	40.3	41.3	39.8	7.31	7.99	8.05
Baltimore	312.77	349.87	337.74	41.1	41.8	40.4	7.61	8.37	8.36
MASSACHUSETTS	251.65	274.57	(*)	40.2	40.2	(*)	6.26	6.83	(*)
Boston	276.62	300.03	(*)	40.5	40.6	(*)	6.83	7.39	(*)
Brockton	194.39	223.44	(*)	37.6	40.2	(*)	5.17	5.51	(*)
Fall River	186.00	201.70	(*)	36.4	37.7	(*)	5.11	5.35	(*)
Lawrence—Haverhill	269.80	287.12	(*)	41.7	40.9	(*)	6.47	7.02	(*)
Lowell	228.50	251.91	(*)	40.3	40.5	(*)	5.67	6.22	(*)
New Bedford	214.85	230.06	(*)	38.3	38.6	(*)	5.61	5.96	(*)
Springfield—Chicopee—Holyoke	254.20	277.22	(*)	41.2	41.5	(*)	6.17	6.68	(*)
Worcester	256.00	270.75	(*)	40.0	39.7	(*)	6.40	6.82	(*)
MICHIGAN	361.83	438.74	(*)	40.0	42.6	(*)	9.05	10.30	(*)
Ann Arbor	389.17	470.38	(*)	40.7	44.2	(*)	9.56	10.64	(*)
Battle Creek	372.11	402.78	(*)	41.3	41.0	(*)	9.01	9.82	(*)
Bay City	319.69	398.76	(*)	39.4	43.5	(*)	8.11	9.17	(*)
Detroit	391.27	479.01	(*)	40.5	44.1	(*)	9.66	10.86	(*)
Flint	422.92	502.29	(*)	41.2	43.5	(*)	10.27	11.55	(*)
Grand Rapids	288.35	360.36	(*)	39.8	42.0	(*)	7.25	8.58	(*)
Jackson	340.61	397.06	(*)	41.9	44.8	(*)	8.13	8.86	(*)
Kalamazoo—Portage	339.15	380.05	(*)	40.5	41.4	(*)	8.37	9.18	(*)
Lansing—East Lansing	359.21	463.19	(*)	38.0	39.8	(*)	9.45	11.64	(*)
Muskegon—Norton Shores—Muskegon Heights	313.48	363.25	(*)	40.0	41.7	(*)	7.84	8.71	(*)
Saginaw	395.37	488.86	(*)	38.2	42.3	(*)	10.35	11.56	(*)
MINNESOTA ¹	290.21	321.20	321.99	39.7	40.2	39.9	7.31	7.99	8.07
Duluth—Superior ¹	255.25	287.34	329.47	37.1	39.2	41.6	6.88	7.33	7.92
Minneapolis—St. Paul ¹	304.07	340.17	339.25	39.8	40.4	40.1	7.64	8.42	8.46
St. Cloud ¹	212.86	234.30	237.77	35.3	35.5	36.3	6.03	6.60	6.55

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		
	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
MISSISSIPPI ¹	\$207.11	\$229.54	\$226.97	39.6	40.2	39.2	\$5.23	\$5.71	\$5.79
Jackson ¹	230.98	264.18	256.31	41.1	41.8	40.3	5.62	6.32	6.36
MISSOURI ¹	276.41	306.32	304.13	39.6	40.2	39.6	6.98	7.62	7.68
Kansas City ¹	315.21	356.79	353.16	39.9	41.2	40.5	7.90	8.66	8.72
St. Joseph ¹	249.00	293.27	297.48	37.5	39.9	40.2	6.64	7.35	7.40
St. Louis ¹	313.58	349.61	343.14	40.1	40.7	39.9	7.82	8.59	8.60
Springfield ¹	247.50	273.31	286.40	39.6	39.1	40.0	6.25	6.99	7.16
MONTANA	383.63	388.20	396.76	45.4	42.8	42.8	8.45	9.07	9.27
NEBRASKA	289.95	311.89	319.06	41.6	40.4	40.8	6.97	7.72	7.82
Lincoln	276.80	296.25	284.95	39.6	39.5	38.3	6.99	7.50	7.44
Omaha	294.00	309.29	319.20	40.0	39.5	39.8	7.35	7.83	8.02
NEVADA ¹	(*)	315.87	305.98	(*)	38.9	38.2	(*)	8.12	8.01
Las Vegas	345.87	360.52	(*)	40.5	38.6	(*)	8.54	9.34	(*)
NEW HAMPSHIRE	226.64	250.92	(*)	40.4	41.0	(*)	5.61	6.12	(*)
Manchester	197.34	222.16	(*)	39.0	39.6	(*)	5.06	5.61	(*)
Nashua	243.17	274.39	(*)	40.8	41.2	(*)	5.96	6.66	(*)
NEW JERSEY	(*)	319.42	318.11	(*)	41.7	41.1	(*)	7.66	7.74
Atlantic City	(*)	229.42	224.99	(*)	36.3	35.6	(*)	6.32	6.32
Camden ²	(*)	317.94	314.47	(*)	42.0	41.0	(*)	7.57	7.67
Hackensack ³	(*)	279.86	276.62	(*)	41.4	40.5	(*)	6.76	6.83
Jersey City ³	(*)	300.35	312.08	(*)	41.2	41.5	(*)	7.29	7.52
New Brunswick—Perth Amboy—Sayreville ³	(*)	386.73	372.27	(*)	43.6	42.4	(*)	8.87	8.78
Newark ³	(*)	328.08	333.11	(*)	41.9	41.9	(*)	7.83	7.95
Paterson—Clifton—Passaic ³	(*)	293.23	295.51	(*)	41.3	41.1	(*)	7.10	7.19
Trenton ³	(*)	333.38	320.88	(*)	39.5	38.2	(*)	8.44	8.40
NEW MEXICO	231.09	242.41	239.98	40.4	40.2	39.6	5.72	6.03	6.06
Albuquerque	243.67	254.20	250.31	41.3	41.4	40.7	5.90	6.14	6.15
NEW YORK	275.71	305.92	(*)	39.9	40.2	(*)	6.91	7.61	(*)
Albany—Schenectady—Troy	292.84	326.27	(*)	40.9	41.3	(*)	7.16	7.90	(*)
Binghamton	260.82	287.31	(*)	41.4	41.7	(*)	6.30	6.89	(*)
Buffalo	359.45	402.52	(*)	40.8	41.2	(*)	8.81	9.77	(*)
Elmira	272.97	305.12	(*)	40.5	41.4	(*)	6.74	7.37	(*)
Monroe County ⁴	368.68	431.42	(*)	41.8	42.8	(*)	8.82	10.08	(*)
Nassau—Suffolk ⁵	260.95	292.94	(*)	39.9	40.8	(*)	6.54	7.18	(*)
New York—Northeastern New Jersey	262.28	288.80	(*)	39.8	40.0	(*)	6.59	7.22	(*)
New York and Nassau—Suffolk ⁵	240.52	263.34	(*)	38.3	38.5	(*)	6.28	6.84	(*)
New York SMSA ⁵	234.98	255.45	(*)	37.9	37.9	(*)	6.20	6.74	(*)
New York City ⁶	229.40	250.21	(*)	37.3	37.4	(*)	6.15	6.69	(*)
Poughkeepsie	267.49	325.74	(*)	40.9	44.5	(*)	6.54	7.32	(*)
Rochester	344.87	402.05	(*)	41.5	42.5	(*)	8.31	9.46	(*)
Rockland County ⁵	266.59	289.78	(*)	40.7	40.7	(*)	6.55	7.12	(*)
Syracuse	307.13	340.98	(*)	41.9	42.2	(*)	7.33	8.08	(*)
Utica—Rome	264.80	278.20	(*)	40.0	39.8	(*)	6.62	6.99	(*)
Westchester County ⁶	271.74	294.40	(*)	42.0	41.7	(*)	6.47	7.06	(*)
NORTH CAROLINA ¹	204.97	228.34	224.45	39.8	40.2	38.9	5.15	5.68	5.77
Asheville ¹	204.83	224.62	217.84	40.4	40.4	38.9	5.07	5.56	5.60
Charlotte—Gastonia ¹	212.59	237.84	235.13	41.2	41.8	40.4	5.16	5.69	5.82
Greensboro—Winston-Salem—High Point ¹	222.16	252.72	249.60	39.6	40.5	39.0	5.61	6.24	6.40
Raleigh—Durham ¹	231.26	259.69	259.25	39.6	40.2	39.4	5.84	6.46	6.58
NORTH DAKOTA ¹	228.24	260.44	258.49	36.0	38.3	37.3	6.34	6.80	6.93
Fargo—Moorhead ¹	238.98	276.01	277.00	35.3	36.9	36.4	6.77	7.48	7.61
OHIO ¹	331.30	386.90	377.39	40.7	42.1	41.2	8.14	9.19	9.16
Akron ¹	339.08	388.88	384.37	41.2	42.5	42.1	8.23	9.15	9.13
Canton ¹	338.85	375.32	377.87	40.1	40.4	40.5	8.45	9.29	9.33
Cincinnati ¹	316.00	362.95	354.02	41.2	42.6	41.6	7.67	8.52	8.51
Cleveland ¹	336.59	397.03	382.12	40.7	42.6	41.4	8.27	9.32	9.23
Columbus ¹	295.20	334.51	327.95	40.0	40.4	39.8	7.38	8.28	8.24
Dayton ¹	345.69	401.26	383.46	41.8	43.1	41.5	8.27	9.31	9.24
Toledo ¹	343.88	398.65	393.87	40.6	41.7	41.2	8.47	9.56	9.56
Youngstown—Warren ¹	382.93	469.54	479.81	39.6	41.7	42.2	9.67	11.26	11.37

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		
	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
OKLAHOMA ¹	(*)	\$324.66	\$321.50	(*)	41.2	40.8	(*)	\$7.88	\$7.88
Oklahoma City ¹	(*)	349.85	350.68	(*)	42.1	42.2	(*)	8.31	8.31
Tulsa ¹	(*)	346.49	333.20	(*)	41.2	40.0	(*)	8.41	8.33
OREGON	\$293.59	351.26	(*)	35.5	38.6	(*)	\$8.27	9.10	(*)
Eugene—Springfield.....	325.38	370.28	377.94	37.3	39.1	39.7	8.75	9.47	9.52
Jackson County.....	311.33	337.31	(*)	37.6	38.2	(*)	8.28	8.83	(*)
Portland.....	272.43	344.51	337.40	33.8	37.9	37.2	8.06	9.09	9.07
PENNSYLVANIA	285.38	318.79	316.34	39.2	39.7	39.2	7.28	8.03	8.07
Allentown—Bethlehem—Easton.....	291.82	322.18	325.31	38.6	39.1	39.1	7.56	8.24	8.32
Altoona.....	252.65	256.56	268.35	39.6	37.4	38.5	6.38	6.86	6.97
Delaware Valley.....	293.38	329.26	322.78	39.7	40.7	39.8	7.39	8.09	8.11
Erie.....	308.38	335.34	336.61	41.9	41.4	41.0	7.36	8.10	8.21
Harrisburg.....	287.73	302.88	306.75	41.7	40.6	40.9	6.90	7.46	7.50
Johnstown.....	302.73	327.59	320.90	37.7	37.1	36.8	8.03	8.83	8.72
Lancaster.....	257.22	282.21	278.80	40.7	40.9	40.0	6.32	6.90	6.97
Northeast Pennsylvania.....	211.49	225.82	221.50	37.3	36.6	35.9	5.67	6.17	6.17
Philadelphia SMSA.....	290.54	323.93	321.60	39.8	40.9	40.0	7.30	7.92	8.04
Pittsburgh.....	355.37	392.80	393.60	40.2	40.0	40.0	8.84	9.82	9.84
Reading.....	267.74	303.35	298.90	39.2	40.5	39.8	6.83	7.49	7.51
Scranton.....	207.38	222.27	223.02	37.5	36.8	36.5	5.53	6.04	6.11
Wilkes-Barre—Hazleton.....	212.75	228.23	219.21	37.0	36.4	35.3	5.75	6.27	6.21
Williamsport.....	275.25	307.84	303.46	40.3	41.1	40.3	6.83	7.49	7.53
York.....	264.79	293.85	284.82	40.8	41.8	40.4	6.49	7.03	7.05
RHODE ISLAND ¹	215.17	234.77	233.05	39.7	40.2	39.5	5.42	5.84	5.90
Providence—Warwick—Pawtucket.....	213.98	232.76	232.45	39.7	40.2	39.6	5.39	5.79	5.87
SOUTH CAROLINA ¹	221.12	244.36	240.13	41.1	41.7	40.7	5.38	5.85	5.90
Charleston—North Charleston.....	244.16	283.41	272.97	39.7	42.3	40.5	6.15	6.70	6.74
Columbia.....	216.54	232.13	230.68	40.4	40.3	39.5	5.36	5.76	5.84
Greenville—Spartanburg.....	220.71	238.27	232.07	41.1	40.8	39.4	5.37	5.84	5.89
SOUTH DAKOTA	251.40	298.74	300.84	41.9	42.8	43.6	6.00	6.98	6.90
Rapid City.....	207.48	235.61	258.25	36.4	36.7	37.7	5.70	6.42	6.85
Sioux Falls.....	339.34	442.32	442.76	47.0	48.5	50.2	7.22	9.12	8.82
TENNESSEE	232.26	262.87	(*)	39.5	41.2	(*)	5.88	6.38	(*)
Chattanooga.....	240.45	271.77	(*)	41.6	42.2	(*)	5.78	6.44	(*)
Knoxville.....	273.64	307.75	(*)	40.3	41.7	(*)	6.79	7.38	(*)
Memphis.....	258.70	296.06	(*)	39.8	40.5	(*)	6.50	7.31	(*)
Nashville—Davidson.....	241.54	293.51	(*)	38.4	42.6	(*)	6.29	6.89	(*)
TEXAS ¹	(*)	317.77	318.78	(*)	42.2	41.4	(*)	7.53	7.70
Amarillo.....	(*)	294.70	298.75	(*)	42.1	38.9	(*)	7.00	7.68
Austin.....	(*)	242.02	242.13	(*)	41.3	40.9	(*)	5.86	5.92
Beaumont—Port Arthur—Orange.....	(*)	435.20	448.51	(*)	42.5	41.8	(*)	10.24	10.73
Corpus Christi.....	(*)	310.34	294.41	(*)	40.2	42.3	(*)	7.72	6.96
Dallas—Fort Worth.....	(*)	302.02	299.32	(*)	42.3	41.4	(*)	7.14	7.23
El Paso.....	(*)	210.98	204.40	(*)	43.5	40.0	(*)	4.85	5.11
Galveston—Texas City.....	(*)	448.98	462.31	(*)	42.0	41.8	(*)	10.69	11.06
Houston.....	(*)	406.35	404.08	(*)	45.0	44.6	(*)	9.03	9.06
Lubbock.....	(*)	240.78	249.23	(*)	40.4	41.4	(*)	5.96	6.02
San Antonio.....	(*)	229.08	234.08	(*)	42.5	42.1	(*)	5.39	5.56
Waco.....	(*)	268.27	250.34	(*)	43.2	39.8	(*)	6.21	6.29
Wichita Falls.....	(*)	287.53	287.12	(*)	40.9	40.9	(*)	7.03	7.02
UTAH	256.30	289.87	285.82	38.6	39.6	39.1	6.64	7.32	7.31
Salt Lake City—Ogden.....	239.62	286.53	276.97	38.4	40.3	38.9	6.24	7.11	7.12
VERMONT	240.20	272.06	268.55	41.2	41.6	41.0	5.83	6.54	6.55
Burlington.....	264.12	297.90	281.52	42.6	43.3	41.4	6.20	6.88	6.80
Springfield.....	292.81	320.73	309.46	44.5	43.4	43.1	6.58	7.39	7.18
VIRGINIA	236.81	262.76	261.49	39.8	40.3	39.5	5.95	6.52	6.62
Bristol.....	202.07	220.66	218.04	37.7	37.4	36.4	5.36	5.90	5.99
Lynchburg.....	242.11	262.22	260.90	38.8	41.1	40.2	6.24	6.38	6.49
Norfolk—Virginia Beach—Portsmouth.....	258.80	307.22	291.99	40.0	42.2	41.3	6.47	7.28	7.07
Northern Virginia..... ¹⁰	266.66	278.00	284.21	40.1	40.0	40.2	6.65	6.95	7.07
Petersburg—Colonial Heights—Hopewell.....	277.36	313.75	304.87	38.9	40.8	39.8	7.13	7.69	7.66

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
VIRGINIA—Continued									
Richmond	\$304.50	\$360.82	\$357.32	40.6	42.3	41.5	\$7.50	\$8.53	\$8.61
Roanoke	224.56	260.20	244.73	40.1	41.9	39.6	5.60	6.21	6.18
WASHINGTON	326.70	392.42	(*)	36.3	39.4	(*)	9.00	9.96	(*)
Seattle—Everett	338.92	399.74	(*)	36.6	39.5	(*)	9.26	10.12	(*)
Spokane	296.09	353.05	(*)	36.6	38.5	(*)	8.09	9.17	(*)
Tacoma	315.70	372.40	(*)	35.0	38.0	(*)	9.02	9.80	(*)
WEST VIRGINIA	307.97	334.27	333.13	40.1	39.7	39.8	7.68	8.42	8.37
Charleston	346.10	375.91	379.54	41.8	41.4	41.8	8.28	9.08	9.08
Huntington—Ashland	332.09	404.34	407.40	39.3	41.9	42.0	8.45	9.65	9.70
Parkersburg—Marietta	328.84	357.70	369.77	40.9	41.4	41.5	8.04	8.64	8.91
Wheeling	330.40	388.49	382.40	41.3	40.3	39.1	8.00	9.64	9.78
WISCONSIN	312.18	349.50	347.25	40.4	41.1	40.4	7.72	8.50	8.59
Appleton—Oshkosh	308.71	346.37	344.49	41.2	42.7	41.9	7.49	8.11	8.23
Eau Claire	305.33	332.85	336.12	39.5	41.4	41.1	7.72	8.03	8.17
Green Bay	320.34	365.12	345.17	41.3	42.8	40.4	7.77	8.54	8.54
Janesville—Beloit	(*)	411.91	405.52	(*)	42.2	42.0	(*)	9.76	9.66
Kenosha	361.77	381.45	387.54	40.4	40.0	40.1	8.96	9.55	9.68
La Crosse	270.37	300.92	297.07	39.8	40.0	39.8	6.79	7.53	7.46
Madison	321.30	329.94	333.06	39.7	39.5	39.6	8.10	8.36	8.41
Milwaukee	343.15	384.42	381.13	40.7	41.2	40.5	8.43	9.33	9.42
Racine	336.29	366.17	362.93	41.5	41.1	40.4	8.11	8.90	8.98
WYOMING	244.04	294.74	289.93	36.1	40.1	38.3	6.76	7.35	7.57
Casper	286.49	(*)	(*)	34.6	(*)	(*)	8.28	(*)	(*)
VIRGIN ISLANDS	300.03	333.80	352.52	41.1	42.2	43.9	7.30	7.91	8.03

¹ Revised to new benchmark; not strictly comparable with previously published data.

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 Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

p = preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

ESTABLISHMENT DATA LABOR TURNOVER

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

[Per 100 employees]

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

p=preliminary.

**ESTABLISHMENT DATA
MONTHLY—LABOR TURNOVER**

D-2. Labor turnover rates, by industry

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P
-	MANUFACTURING	2.2	3.4	1.2	1.8	0.8	1.4	3.1	3.5	0.9	1.2	1.6	1.5
24, 25, 32-39	DURABLE GOODS	1.9	3.2	1.0	1.6	.7	1.4	2.6	3.3	.7	1.0	1.4	1.5
20-23, 26-31	NONDURABLE GOODS	2.5	3.7	1.5	2.2	.9	1.3	3.8	3.9	1.2	1.6	2.1	1.6
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	2.8	4.6	1.6	2.7	1.0	1.6	4.9	5.3	1.4	2.0	2.8	2.2
242	Sawmills and planing mills	2.7	-	1.4	-	1.1	-	4.3	-	1.2	-	2.5	-
2421	Sawmills and planing mills, general	2.6	-	1.2	-	1.2	-	4.2	-	1.1	-	2.6	-
243	Millwork, plywood, and structural members	2.6	-	1.6	-	.9	-	3.8	-	1.3	-	1.9	-
2431	Millwork	2.9	-	1.8	-	1.1	-	3.2	-	1.3	-	1.3	-
244	Wooden containers	3.4	-	2.6	-	.7	-	5.5	-	2.6	-	2.1	-
245	Wood buildings and mobile homes	3.7	-	2.1	-	1.5	-	8.0	-	2.4	-	4.5	-
2451	Mobile homes	5.0	-	2.7	-	2.1	-	8.9	-	3.1	-	4.5	-
249	Miscellaneous wood products	3.3	-	2.2	-	.8	-	3.7	-	1.3	-	1.5	-
25	FURNITURE AND FIXTURES	2.9	4.2	1.7	2.6	1.0	1.2	3.2	3.8	1.3	1.8	1.3	1.1
251	Household furniture	3.2	-	1.9	-	1.2	-	3.1	-	1.4	-	.9	-
2511	Wood household furniture	2.3	-	1.8	-	.4	-	2.4	-	1.5	-	.3	-
2512	Upholstered household furniture	2.3	-	1.9	-	.4	-	2.3	-	1.3	-	.4	-
2515	Mattresses and bedsprings	2.3	-	2.0	-	.3	-	4.1	-	1.4	-	1.9	-
252	Office furniture	2.2	-	1.5	-	.6	-	1.9	-	1.0	-	.4	-
254	Partitions and fixtures	2.9	-	1.7	-	1.1	-	5.0	-	1.2	-	3.3	-
32	STONE, CLAY, AND GLASS PRODUCTS	2.0	3.8	1.1	1.5	.8	2.2	4.7	5.1	.8	1.0	3.1	3.3
322	Glass and glassware, pressed or blown	1.6	-	.4	-	.8	-	4.0	-	.4	-	2.9	-
3221	Glass containers	1.9	-	.3	-	1.2	-	4.5	-	.4	-	3.6	-
3229	Pressed and blown glass, nec	1.3	-	.4	-	.5	-	3.4	-	.4	-	2.1	-
323	Products of purchased glass	2.4	-	.8	-	1.5	-	3.4	-	.7	-	1.4	-
324	Cement, hydraulic	1.5	-	.5	-	.9	-	5.2	-	.2	-	4.6	-
325	Structural clay products	2.7	-	1.6	-	1.0	-	4.2	-	1.4	-	2.1	-
326	Pottery and related products	1.9	-	.8	-	.8	-	3.5	-	.6	-	2.2	-
327	Concrete, gypsum, and plaster products	2.7	-	1.9	-	.7	-	6.8	-	1.2	-	4.7	-
329	Misc. nonmetallic mineral products	1.6	-	.9	-	.6	-	3.0	-	.6	-	1.8	-
33	PRIMARY METAL INDUSTRIES	2.3	3.2	.5	1.0	1.5	2.0	2.5	2.6	.3	.5	1.6	1.3
331	Blast furnace and basic steel products	2.9	-	.3	-	2.4	-	2.7	-	.2	-	1.9	-
3312	Blast furnaces and steel mills	3.0	-	.2	-	2.5	-	2.7	-	.1	-	1.9	-
332	Iron and steel foundries	2.2	-	.8	-	1.2	-	3.1	-	.5	-	2.0	-
3321	Gray iron foundries	1.9	-	.7	-	.9	-	3.6	-	.6	-	2.5	-
3325	Steel foundries, nec	2.7	-	1.0	-	1.5	-	2.7	-	.4	-	1.6	-
333	Primary nonferrous metals .....	.7	-	.4	-	.2	-	1.1	-	.2	-	.6	-
335	Nonferrous rolling and drawing	1.2	-	.6	-	.5	-	1.5	-	.3	-	.7	-
3351	Copper rolling and drawing	1.9	-	.7	-	1.0	-	1.1	-	.4	-	.3	-
3353	Aluminum sheet, plate, and foil .....	.9	-	.3	-	.5	-	1.1	-	.2	-	.6	-
3357	Nonferrous wire drawing and insulating	1.1	-	.7	-	.3	-	1.4	-	.3	-	.7	-
336	Nonferrous foundries	2.7	-	1.1	-	1.4	-	3.5	-	.8	-	2.1	-
3361	Aluminum foundries	3.2	-	1.1	-	1.9	-	3.3	-	.7	-	1.9	-
34	FABRICATED METAL PRODUCTS	1.9	3.3	1.1	1.7	.7	1.5	2.9	3.8	.8	1.1	1.6	1.8
341	Metal cans and shipping containers	3.6	-	.5	-	2.7	-	4.9	-	.3	-	3.9	-
3411	Metal cans	3.9	-	.3	-	3.2	-	5.3	-	.3	-	4.4	-
342	Cutlery, hand tools, and hardware	1.7	-	.8	-	.6	-	2.2	-	.6	-	1.0	-
3423, 5	Hand and edge tools, and hand saws and blades	1.4	-	.8	-	.5	-	1.8	-	.6	-	.7	-
3429	Hardware, nec	1.8	-	.8	-	.6	-	2.4	-	.6	-	1.2	-
343	Plumbing and heating, except electric	1.8	-	1.2	-	.6	-	2.6	-	.7	-	1.5	-
344	Fabricated structural metal products	1.9	-	1.3	-	.5	-	3.3	-	1.0	-	1.6	-
3441	Fabricated structural metal	2.3	-	1.8	-	.5	-	3.0	-	1.2	-	1.1	-
3442	Metal doors, sash, and trim	1.8	-	1.4	-	.4	-	5.0	-	1.3	-	3.1	-
3443	Fabricated plate work (boiler shops)	1.2	-	.8	-	.3	-	1.8	-	.6	-	.7	-
3444	Sheet metal work	2.3	-	1.5	-	.8	-	4.6	-	1.3	-	2.7	-
345	Screw machine products, bolts, etc.	1.6	-	1.0	-	.5	-	2.4	-	.9	-	.9	-
3451	Screw machine products	1.9	-	1.3	-	.5	-	2.9	-	1.2	-	1.1	-
3452	Bolts, nuts, rivets, and washers	1.3	-	.8	-	.5	-	1.9	-	.6	-	.7	-
346	Metal forgings and stampings	1.9	-	.8	-	.8	-	2.7	-	.6	-	1.7	-
3462	Iron and steel forgings	1.8	-	.7	-	1.1	-	1.7	-	.7	-	.5	-
3465	Automotive stampings	2.1	-	.5	-	.9	-	3.6	-	.4	-	3.0	-
3469	Metal stampings, nec	1.8	-	1.1	-	.6	-	2.6	-	.8	-	1.3	-
347	Metal services, nec	2.1	-	1.6	-	.4	-	4.5	-	1.2	-	2.4	-
348	Ordnance and accessories, nec	1.2	-	.6	-	.3	-	1.5	-	.3	-	.7	-
349	Misc. fabricated metal products	1.8	-	1.1	-	.6	-	2.3	-	.7	-	1.1	-
3494	Valves and pipe fittings	1.6	-	.9	-	.6	-	1.7	-	.5	-	.9	-
3496	Misc. fabricated wire products	2.1	-	1.4	-	.6	-	3.2	-	1.0	-	1.7	-

See footnotes at end of table.

**ESTABLISHMENT DATA
MONTHLY—LABOR TURNOVER**

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P
35	MACHINERY, EXCEPT ELECTRICAL	1.7	2.6	1.0	1.5	0.5	0.9	1.7	2.5	0.5	0.9	0.6	0.9
351	Engines and turbines	1.9	-	.4	-	.8	-	1.8	-	.1	-	.8	-
3511	Turbines and turbine generator sets	1.3	-	.4	-	.1	-	1.4	-	.1	-	.2	-
3519	Internal combustion engines, nec	2.2	-	.4	-	1.1	-	2.0	-	.2	-	1.1	-
352	Farm and garden machinery	2.5	-	.7	-	1.6	-	2.2	-	.4	-	1.3	-
3523	Farm machinery and equipment	2.4	-	.6	-	1.5	-	2.2	-	.4	-	1.4	-
353	Construction and related machinery	1.5	-	1.0	-	.4	-	1.4	-	.5	-	.5	-
3531	Construction machinery	1.3	-	.5	-	.6	-	1.4	-	.3	-	.8	-
3533	Oil field machinery	2.2	-	2.1	-	(1)	-	1.6	-	1.0	-	(1)	-
354	Metalworking machinery	1.5	-	.9	-	.4	-	1.6	-	.5	-	.5	-
3541	Machine tools, metal cutting types	.8	-	.6	-	.1	-	.9	-	.3	-	.2	-
3544	Special dies, tools, jigs, and fixtures	1.9	-	1.3	-	.4	-	2.1	-	.7	-	.7	-
3545	Machine tool accessories	1.3	-	.7	-	.3	-	1.2	-	.6	-	.2	-
355	Special industry machinery	1.3	-	.9	-	.2	-	1.4	-	.5	-	.4	-
3551	Food products machinery	1.0	-	.8	-	.2	-	1.9	-	.7	-	.8	-
3552	Textile machinery	1.7	-	1.1	-	.4	-	1.9	-	.7	-	.6	-
356	General industrial machinery	1.4	-	.7	-	.5	-	1.4	-	.5	-	.5	-
3561	Pumps and pumping equipment	1.2	-	.8	-	.2	-	1.1	-	.4	-	.3	-
3562	Ball and roller bearings	1.5	-	.5	-	.5	-	1.1	-	.3	-	.5	-
3564	Blowers and fans	2.1	-	.9	-	1.1	-	1.7	-	.8	-	.5	-
357	Office and computing machines	1.5	-	1.2	-	.1	-	1.2	-	.6	-	.1	-
3573	Electronic computing equipment	1.6	-	1.3	-	.1	-	1.1	-	.6	-	.1	-
358	Refrigeration and service machinery	2.3	-	1.0	-	1.0	-	2.1	-	.5	-	.8	-
3585	Refrigeration and heating equipment	2.8	-	.9	-	1.4	-	2.2	-	.5	-	.9	-
359	Misc. machinery, except electrical	2.1	-	1.3	-	.8	-	2.7	-	.8	-	1.3	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	1.8	2.7	1.0	1.4	.5	.8	2.1	2.9	.7	1.0	.8	1.0
361	Electric distributing equipment	1.9	-	1.3	-	.3	-	1.6	-	.7	-	.2	-
3612	Transformers	2.0	-	1.3	-	.2	-	1.6	-	.7	-	.1	-
3613	Switchgear and switchboard apparatus	1.9	-	1.2	-	.3	-	1.6	-	.7	-	.2	-
362	Electrical industrial apparatus	1.8	-	.8	-	.7	-	1.3	-	.4	-	.4	-
3621	Motors and generators	2.0	-	.9	-	.8	-	1.3	-	.4	-	.4	-
3622	Industrial controls	1.6	-	.9	-	.4	-	1.4	-	.5	-	.3	-
363	Household appliances	3.3	-	.8	-	1.8	-	4.1	-	.4	-	2.6	-
3632	Household refrigerators and freezers	6.3	-	1.0	-	4.3	-	5.2	-	.2	-	3.5	-
3633	Household laundry equipment	2.3	-	.2	-	1.6	-	2.1	-	.1	-	.8	-
3634	Electric housewares and fans	1.8	-	.7	-	.6	-	6.5	-	.8	-	4.9	-
364	Electric lighting and wiring equipment	1.8	-	1.1	-	.5	-	2.5	-	.8	-	1.1	-
3641	Electric lamps	.8	-	.4	-	.1	-	1.6	-	.4	-	.6	-
3643	Current-carrying wiring devices	1.7	-	1.1	-	.4	-	1.8	-	.7	-	.7	-
365	Radio and TV receiving equipment	3.5	-	1.2	-	1.0	-	4.9	-	.8	-	2.5	-
3651	Radio and TV receiving sets	3.3	-	1.4	-	.5	-	4.6	-	.9	-	1.9	-
366	Communication equipment	1.1	-	.8	-	.1	-	1.1	-	.5	-	.2	-
3661	Telephone and telegraph apparatus	.4	-	.3	-	(1)	-	.8	-	.2	-	.2	-
3662	Radio and TV communication equipment	1.4	-	1.1	-	.1	-	1.3	-	.7	-	.1	-
367	Electronic components and accessories	1.8	-	1.3	-	.3	-	2.0	-	.9	-	.5	-
3671-3	Electronic tubes	1.4	-	.8	-	.3	-	1.9	-	.6	-	.6	-
3674	Semiconductors and related devices	1.3	-	1.0	-	.2	-	1.2	-	.6	-	.1	-
3679	Electronic components, nec	2.2	-	1.7	-	.4	-	2.5	-	1.2	-	.6	-
369	Misc. electrical equipment and supplies	1.6	-	.9	-	.5	-	2.3	-	.6	-	1.1	-
3694	Engine electrical equipment	1.5	-	.7	-	.6	-	2.9	-	.6	-	1.6	-
37	TRANSPORTATION EQUIPMENT	1.7	-	.6	-	.6	-	2.5	-	.4	-	1.4	-
371	Motor vehicles and equipment	2.0	-	.3	-	.8	-	3.1	-	.4	-	1.8	-
3711	Motor vehicles and car bodies	2.2	-	.2	-	.2	-	3.2	-	.3	-	2.2	-
3713	Truck and bus bodies	1.9	-	.4	-	1.2	-	4.2	-	1.3	-	2.4	-
3714	Motor vehicle parts and accessories	1.9	-	.3	-	1.2	-	2.8	-	.3	-	1.3	-
3715,6	Truck trailers and motor homes	1.9	-	.8	-	1.1	-	3.5	-	.7	-	2.1	-
372	Aircraft and parts	.7	-	.5	-	.1	-	.9	-	.3	-	.1	-
3721	Aircraft	.6	-	.4	-	.1	-	.6	-	.2	-	(1)	-
3724	Aircraft engines and engine parts	.8	-	.4	-	(1)	-	.8	-	.2	-	.1	-
3728	Aircraft equipment, nec	1.2	-	1.0	-	.1	-	1.7	-	.6	-	.5	-
373	Ship and boat building and repairing	3.6	-	1.8	-	1.7	-	4.3	-	.9	-	2.5	-
3731	Ship building and repairing	3.6	-	1.5	-	2.0	-	4.2	-	.7	-	2.6	-
3732	Boat building and repairing	3.4	-	3.0	-	.3	-	4.5	-	1.5	-	2.1	-
374	Railroad equipment	3.0	-	.6	-	2.2	-	5.3	-	.2	-	4.5	-
376	Guided missiles, space vehicles, parts	1.4	-	1.0	-	.1	-	1.2	-	.3	-	.6	-
3761	Guided missiles and space vehicles	1.5	-	1.1	-	.1	-	1.2	-	.3	-	.7	-
379	Miscellaneous transportation equipment	2.9	-	2.1	-	.5	-	4.1	-	1.5	-	2.1	-
38	INSTRUMENTS AND RELATED PRODUCTS	1.5	2.2	1.2	1.7	.2	.4	1.5	2.2	.7	1.0	.3	.5
381	Engineering and scientific instruments	1.7	-	1.4	-	.1	-	1.3	-	.8	-	(1)	-
382	Measuring and controlling devices	1.3	-	.9	-	.2	-	1.3	-	.7	-	.2	-
3822	Environmental controls	1.3	-	.8	-	.5	-	1.3	-	.6	-	.4	-
3823	Process control instruments	1.5	-	1.2	-	.3	-	1.3	-	.5	-	.4	-
3825	Instruments to measure electricity	1.2	-	.9	-	.1	-	1.2	-	.9	-	(1)	-

See footnotes at end of table.

ESTABLISHMENT DATA
MONTHLY—LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P
	INSTRUMENTS AND RELATED PRODUCTS—Cont'd												
383	Optical instruments and lenses	2.6	-	2.2	-	0.1	-	1.7	-	0.8	-	0.5	-
384	Medical instruments and supplies	1.8	-	1.3	-	.3	-	1.8	-	.9	-	.3	-
3841	Surgical and medical instruments	1.6	-	1.2	-	.2	-	1.5	-	1.0	-	.1	-
3842	Surgical appliances and supplies	2.0	-	1.4	-	.4	-	2.2	-	.8	-	.6	-
385	Ophthalmic goods	1.9	-	1.2	-	.3	-	3.2	-	1.1	-	1.1	-
386	Photographic equipment and supplies	1.0	-	.9	-	(1)	-	.7	-	.3	-	.1	-
387	Watches, clocks, and watchcases	2.0	-	1.5	-	.4	-	1.8	-	.9	-	.3	-
39	MISCELLANEOUS MANUFACTURING												
	INDUSTRIES	2.5	6.1	1.5	2.1	.8	3.7	5.8	6.1	1.1	1.5	3.9	3.4
391	Jewelry, silverware, and plated ware	1.5	-	1.0	-	.4	-	4.4	-	1.0	-	2.5	-
393	Musical instruments	2.4	-	1.8	-	.4	-	2.0	-	1.1	-	.4	-
394	Toys and sporting goods	2.9	-	1.3	-	1.2	-	12.1	-	1.3	-	9.8	-
3942,4	Dolls, games, toys, and children's vehicles	2.7	-	1.4	-	.9	-	20.1	-	1.6	-	17.5	-
3949	Sporting and athletic goods, nec	3.0	-	1.2	-	1.4	-	5.5	-	1.1	-	3.6	-
395	Pens, pencils, office and art supplies	2.2	-	1.5	-	.4	-	2.7	-	.7	-	1.3	-
396	Costume jewelry and notions	2.1	-	1.7	-	.4	-	6.5	-	1.6	-	3.8	-
399	Miscellaneous manufactures	2.8	-	1.7	-	1.0	-	2.9	-	1.0	-	1.2	-
	NONDURABLE GOODS												
20	FOOD AND KINDRED PRODUCTS	3.4	4.5	1.8	2.4	1.4	1.8	6.1	5.6	1.5	1.9	4.0	2.9
201	Meat products	3.8	-	2.3	-	1.1	-	6.3	-	2.2	-	3.2	-
2011	Meat packing plants	2.9	-	1.1	-	1.4	-	4.9	-	1.0	-	3.2	-
2013	Sausages and other prepared meats	3.2	-	1.1	-	1.9	-	5.7	-	1.1	-	3.9	-
2016	Poultry dressing plants	5.5	-	4.7	-	.4	-	8.7	-	4.5	-	3.0	-
202	Dairy products	2.3	-	1.5	-	.7	-	2.6	-	1.1	-	1.0	-
203	Preserved fruits and vegetables	5.9	-	2.0	-	3.9	-	17.6	-	1.7	-	15.1	-
204	Grain mill products	2.1	-	1.5	-	.4	-	2.8	-	1.1	-	1.1	-
205	Bakery products	1.9	-	1.2	-	.5	-	2.3	-	.8	-	1.0	-
2051	Bread, cake, and related products	2.0	-	1.4	-	.4	-	2.0	-	.9	-	.7	-
2052	Cookies and crackers	1.6	-	.5	-	1.1	-	3.3	-	.5	-	2.4	-
206	Sugar and confectionery products	3.6	-	1.8	-	1.5	-	6.4	-	1.3	-	4.2	-
207	Fats and oils	1.9	-	1.5	-	.2	-	4.4	-	1.3	-	2.5	-
208	Beverages	2.6	-	1.3	-	1.1	-	4.1	-	.9	-	2.6	-
2082	Malt beverages	2.8	-	.5	-	2.1	-	4.5	-	.1	-	3.8	-
2086	Bottled and canned soft drinks	2.2	-	1.7	-	.4	-	2.5	-	1.2	-	.6	-
209	Misc. foods and kindred products	5.3	-	2.6	-	2.5	-	6.9	-	2.1	-	3.9	-
21	TOBACCO MANUFACTURES	5.0	-	1.6	-	2.8	-	3.9	-	.3	-	3.0	-
211	Cigarettes	2.5	-	.6	-	1.0	-	.8	-	.1	-	.1	-
22	TEXTILE MILL PRODUCTS	2.0	3.2	1.4	2.3	.4	.7	2.6	3.4	1.1	1.6	.9	1.0
221	Weaving mills, cotton	1.5	-	1.0	-	.1	-	2.0	-	1.0	-	.4	-
222	Weaving mills, synthetics	2.0	-	1.5	-	.3	-	2.5	-	1.1	-	.9	-
223	Weaving and finishing mills, wool	4.0	-	2.6	-	1.3	-	3.2	-	1.3	-	1.3	-
224	Narrow fabric mills	2.5	-	1.8	-	.4	-	3.1	-	1.1	-	1.0	-
225	Knitting mills	2.1	-	1.5	-	.5	-	3.2	-	1.2	-	1.5	-
2251	Women's hosiery, except socks	1.6	-	1.3	-	.3	-	2.1	-	1.1	-	.5	-
2252	Hosiery, nec	1.4	-	1.0	-	.3	-	2.5	-	1.4	-	.8	-
2253	Knit outerwear mills	2.3	-	1.7	-	.4	-	3.9	-	1.4	-	1.9	-
2254	Knit underwear mills	2.2	-	1.8	-	.3	-	2.6	-	1.1	-	1.0	-
2257	Circular knit fabric mills	2.5	-	1.4	-	.9	-	2.9	-	.9	-	1.5	-
226	Textile finishing, except wool	1.8	-	1.4	-	.3	-	2.3	-	1.0	-	.6	-
227	Floor covering mills	1.7	-	1.1	-	.4	-	2.2	-	.8	-	.8	-
228	Yarn and thread mills	2.2	-	1.6	-	.5	-	2.8	-	1.4	-	.8	-
229	Miscellaneous textile goods	1.9	-	1.2	-	.5	-	2.1	-	.7	-	.8	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	3.0	5.6	1.5	3.0	1.4	2.4	5.3	5.3	1.5	2.2	3.2	2.3
231	Men's and boys' suits and coats	2.1	-	1.2	-	.6	-	2.3	-	.8	-	1.0	-
232	Men's and boys' furnishings	2.2	-	1.4	-	.7	-	3.9	-	1.7	-	1.8	-
2321	Men's and boys' shirts and nightwear	1.7	-	1.0	-	.5	-	2.8	-	1.4	-	1.0	-
2327	Men's and boys' separate trousers	1.7	-	1.3	-	.3	-	2.5	-	1.7	-	.5	-
2328	Men's and boys' work clothing	2.1	-	1.7	-	.4	-	4.2	-	2.1	-	1.8	-
233	Women's and misses' outerwear	4.2	-	1.6	-	2.4	-	7.0	-	1.6	-	4.7	-
234	Women's and children's undergarments	2.4	-	1.5	-	.8	-	5.5	-	1.6	-	3.3	-
2341	Women's and children's underwear	2.3	-	1.3	-	.9	-	6.0	-	1.7	-	3.7	-
2342	Brassieres and allied garments	3.1	-	2.5	-	.5	-	3.4	-	1.3	-	1.8	-
236	Children's outerwear	3.5	-	1.6	-	1.8	-	5.7	-	1.7	-	3.3	-
238	Misc. apparel and accessories	2.7	-	1.3	-	1.2	-	7.0	-	1.5	-	5.1	-
239	Misc. fabricated textile products	2.9	-	1.7	-	1.1	-	4.8	-	1.3	-	2.9	-
26	PAPER AND ALLIED PRODUCTS	1.7	2.5	.9	1.2	.6	1.1	2.4	2.7	.5	.9	1.4	1.2
261,2,6	Paper and pulp mills	1.3	-	.5	-	.5	-	1.5	-	.2	-	.8	-
262	Paper mills, except building paper	1.2	-	.5	-	.5	-	1.3	-	.2	-	.6	-

See footnotes at end of table.

ESTABLISHMENT DATA MONTHLY—LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P	Dec. 1980	Jan. 1981P
	PAPER AND ALLIED PRODUCTS—Continued												
263	Paperboard mills	1.1	-	0.8	-0.	0.3	-	1.1	-	0.4	-	0.3	-
264	Misc. converted paper products	2.3	-	1.3	-	.9	-	3.5	-	.7	-	2.1	-
265	Paperboard containers and boxes	1.7	-	1.0	-	.6	-	2.7	-	.6	-	1.6	-
2651	Folding paperboard boxes	1.6	-	.9	-	.6	-	2.5	-	.5	-	1.4	-
2653	Corrugated and solid fiber boxes	1.6	-	1.0	-	.5	-	2.1	-	.6	-	1.0	-
27	PRINTING AND PUBLISHING	2.5	3.0	1.9	2.2	.5	.6	3.0	3.2	1.4	1.7	1.0	.8
271	Newspapers	2.9	-	2.6	-	.2	-	3.0	-	2.3	-	.1	-
272	Periodicals	2.1	-	1.9	-	.2	-	2.2	-	1.5	-	.1	-
273	Books	3.7	-	1.9	-	1.6	-	2.8	-	1.2	-	1.1	-
274	Miscellaneous publishing	2.2	-	1.9	-	.3	-	2.3	-	1.5	-	.2	-
275	Commercial printing	2.3	-	1.4	-	.7	-	3.3	-	.9	-	1.9	-
2751	Commercial printing, letterpress	2.4	-	1.3	-	.7	-	3.8	-	.8	-	2.5	-
2752	Commercial printing, lithographic	2.2	-	1.5	-	.6	-	2.9	-	.9	-	1.4	-
278	Blankbooks and bookbinding	2.2	-	1.5	-	.7	-	2.6	-	1.2	-	.9	-
28	CHEMICALS AND ALLIED PRODUCTS	1.1	1.8	.8	1.2	.2	.5	1.4	1.5	.4	.6	.5	.3
281	Industrial inorganic chemicals	.9	-	.6	-	.2	-	1.0	-	.3	-	.3	-
2819	Industrial inorganic chemicals, nec	.9	-	.6	-	.1	-	1.0	-	.3	-	.2	-
282	Plastics materials and synthetics	.8	-	.5	-	.3	-	1.1	-	.3	-	.5	-
2821	Plastics materials and resins	1.0	-	.7	-	.2	-	1.1	-	.4	-	.3	-
2824	Organic fibers, noncellulosic	.6	-	.3	-	.2	-	.7	-	.1	-	.1	-
283	Drugs	1.2	-	1.0	-	.1	-	1.1	-	.5	-	.2	-
2834	Pharmaceutical preparations	1.0	-	.8	-	.1	-	1.0	-	.4	-	.2	-
284	Soap, cleaners, and toilet goods	1.3	-	.9	-	.3	-	2.3	-	.6	-	.9	-
2841	Soap and other detergents	.9	-	.6	-	.3	-	2.0	-	.4	-	1.3	-
2844	Toilet preparations	1.4	-	1.0	-	.3	-	2.5	-	.6	-	.8	-
285	Paints and allied products	1.0	-	.7	-	.3	-	1.5	-	.7	-	.4	-
286	Industrial organic chemicals	.7	-	.5	-	.1	-	1.1	-	.3	-	.2	-
287	Agricultural chemicals	1.8	-	1.3	-	.5	-	2.1	-	.6	-	1.0	-
289	Miscellaneous chemical products	1.6	-	1.2	-	.3	-	1.8	-	.5	-	.9	-
29	PETROLEUM AND COAL PRODUCTS	1.4	2.2	1.1	1.8	.2	.3	2.0	1.9	.5	.5	1.0	.8
291	Petroleum refining	1.2	-	1.0	-	.1	-	1.0	-	.3	-	.2	-
295	Paving and roofing materials	2.0	-	1.1	-	.9	-	7.9	-	.9	-	6.3	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	2.6	3.9	1.4	2.3	1.0	1.3	3.5	3.9	1.1	1.4	1.7	1.7
301	Tires and inner tubes	1.6	-	.4	-	.9	-	.9	-	.2	-	.3	-
302	Rubber and plastics footwear	4.8	-	2.6	-	2.0	-	10.9	-	2.1	-	7.9	-
303.4	Reclaimed rubber, and rubber and plastics hose and belting	2.5	-	1.1	-	1.2	-	1.7	-	.5	-	.5	-
306	Fabricated rubber products, nec	2.6	-	1.2	-	1.1	-	3.0	-	.7	-	1.4	-
307	Miscellaneous plastics products	2.8	-	1.6	-	.9	-	3.8	-	1.3	-	1.9	-
31	LEATHER AND LEATHER PRODUCTS	3.4	7.5	2.3	3.5	1.0	3.8	5.9	5.8	1.8	2.5	3.4	2.5
311	Leather tanning and finishing	2.5	-	1.9	-	.5	-	2.5	-	1.1	-	.8	-
314	Footwear, except rubber	3.2	-	2.3	-	.7	-	4.7	-	2.0	-	2.0	-
3143	Men's footwear, except athletic	3.1	-	2.4	-	.4	-	3.7	-	2.2	-	.8	-
3144	Women's footwear, except athletic	3.3	-	1.9	-	1.3	-	4.3	-	1.5	-	2.1	-
	NONMANUFACTURING:												
-	MINING	4.0	5.1	3.2	3.7	.5	.7	4.0	4.4	2.3	2.8	.9	.8
10	METAL MINING	2.5	1.9	1.2	.8	.7	.6	1.8	2.4	.6	.7	.5	.5
101	Iron ores	5.2	-	.3	-	2.9	-	1.9	-	.1	-	.3	-
102	Copper ores	3.4	-	2.8	-	(1)	-	1.8	-	.8	-	.2	-
12	BITUMINOUS COAL AND LIGNITE MINING	1.2	1.9	.6	1.0	.5	.6	1.3	1.4	.4	.5	.6	.3
13	OIL AND GAS EXTRACTION	6.0	7.4	5.2	5.8	.5	.7	5.1	5.9	3.8	4.4	.2	.4
131, 2	Crude petroleum, natural gas, and natural gas liquids	2.0	-	1.7	-	.2	-	1.4	-	.7	-	.2	-
138	Oil and gas field services	8.5	-	7.4	-	.8	-	7.4	-	5.7	-	.2	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	1.9	2.9	1.2	1.3	.5	1.3	6.6	6.1	.9	1.0	5.2	4.3
142	Crushed and broken stone	1.4	-	.8	-	.6	-	9.8	-	.8	-	8.5	-
144	Sand and gravel	2.2	-	1.5	-	.4	-	9.6	-	1.0	-	8.1	-
-	COMMUNICATION:												
481	Telephone communication	.5	-	.4	-	(1)	-	.7	-	.2	-	.2	-

¹ Less than 0.05.

P=preliminary.

ESTABLISHMENT DATA
LABOR TURNOVER—ANNUAL AVERAGES

D-2. Labor turnover rates, by industry

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	MANUFACTURING	4.0	3.5	2.9	2.1	0.7	1.1	4.0	4.0	2.0	1.5	1.1	1.7
24, 25, 32-39	DURABLE GOODS	3.6	3.1	2.7	1.8	.6	1.1	3.6	3.8	1.7	1.2	1.0	1.8
20-23, 26-31	NONDURABLE GOODS	4.5	4.0	3.4	2.7	.9	1.1	4.6	4.3	2.5	1.9	1.3	1.6
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	5.5	4.9	4.5	2.9	.8	1.8	6.1	6.0	3.5	2.3	1.4	2.7
242	Sawmills and planing mills	4.3	4.1	3.6	2.4	.6	1.5	4.8	5.7	2.9	2.0	.9	2.9
2421	Sawmills and planing mills, general	3.9	3.9	3.3	2.1	.5	1.5	4.4	5.6	2.6	1.8	.9	3.0
243	Millwork, plywood, and structural members	5.2	4.6	4.4	2.6	.7	1.9	5.9	5.5	3.3	2.0	1.3	2.6
2431	Millwork	4.8	4.5	3.9	2.4	.9	2.1	5.6	5.3	3.1	1.8	1.5	2.7
244	Wooden containers	7.9	5.8	7.0	4.2	.7	1.5	8.1	6.6	6.2	3.8	.8	2.0
245	Wood buildings and mobile homes	8.8	8.0	7.4	5.4	1.3	2.5	10.6	9.3	5.9	4.2	2.8	3.8
2451	Mobile homes	10.0	9.2	8.8	6.4	1.1	2.6	11.5	10.3	6.9	4.9	2.5	3.8
249	Miscellaneous wood products	5.3	4.6	4.4	3.2	.6	1.2	5.3	5.2	3.2	2.4	1.0	1.7
25	FURNITURE AND FIXTURES	5.1	3.9	4.3	2.8	.6	.9	5.3	4.5	3.2	2.1	.9	1.5
251	Household furniture	5.4	4.0	4.6	2.9	.6	1.0	5.6	4.7	3.6	2.3	.8	1.5
2511	Wood household furniture	5.5	3.9	5.0	3.0	.4	.7	5.5	4.5	3.9	2.5	.3	1.1
2512	Upholstered household furniture	4.6	3.4	3.9	2.5	.5	.7	5.0	4.2	3.2	2.1	.7	1.3
2515	Mattresses and bedsprings	5.9	4.1	5.4	3.2	.4	.8	6.0	5.0	3.6	2.1	.9	1.7
252	Office furniture	3.6	2.7	2.9	2.0	.5	.6	3.7	3.2	2.0	1.5	.9	1.1
254	Partitions and fixtures	5.7	4.5	4.9	3.4	.7	.9	5.5	5.0	3.1	2.2	1.2	1.9
32	STONE, CLAY, AND GLASS PRODUCTS	4.1	3.5	3.0	1.9	.9	1.5	4.2	4.3	2.0	1.3	1.3	2.2
322	Glass and glassware, pressed or blown	3.0	2.6	1.6	1.1	1.1	1.1	3.3	3.7	1.1	.7	1.4	2.0
3221	Glass containers	2.8	2.5	1.5	1.2	1.1	1.1	3.3	3.3	1.3	.9	1.4	1.7
3229	Pressed and blown glass, nec	3.2	2.8	1.7	1.0	1.0	1.2	3.3	4.1	.9	.6	1.3	2.3
323	Products of purchased glass	4.4	4.4	3.0	1.9	1.2	2.2	4.7	4.7	2.2	1.4	1.4	2.2
324	Cement, hydraulic	1.4	1.9	1.1	.8	.2	1.0	1.6	3.0	.6	.4	.4	1.9
325	Structural clay products	5.4	4.4	4.5	2.3	.8	1.9	5.7	5.8	3.6	2.1	1.0	2.8
326	Pottery and related products	3.5	3.3	2.9	1.9	.4	1.2	3.9	4.0	1.9	1.4	1.0	1.7
327	Concrete, gypsum, and plaster products	5.6	4.7	4.3	3.0	1.2	1.6	5.4	5.2	2.7	1.8	1.7	2.4
329	Misc. nonmetallic mineral products	3.2	2.7	2.5	1.3	.5	1.3	3.3	3.7	1.6	.9	.9	2.0
33	PRIMARY METAL INDUSTRIES	2.6	3.0	1.7	.9	.6	1.8	2.9	3.8	1.0	.6	1.0	2.5
331	Blast furnace and basic steel products	2.2	3.4	1.0	.4	.8	2.7	2.5	4.2	.5	.3	1.1	3.1
3312	Blast furnaces and steel mills	2.1	3.5	.9	.2	.9	2.9	2.4	4.3	.4	.2	1.1	3.2
332	Iron and steel foundries	3.2	3.2	2.5	1.2	.5	1.6	4.1	4.3	1.6	1.0	1.4	2.5
3321	Gray iron foundries	3.1	3.2	2.3	1.1	.4	1.6	4.1	4.4	1.7	1.0	1.5	2.6
3325	Steel foundries, nec	3.1	3.1	2.6	1.5	.4	1.5	3.6	3.9	1.5	.8	.9	2.1
333	Primary nonferrous metals	1.5	1.3	1.2	.9	.2	.3	1.6	1.4	.6	.4	.2	.5
335	Nonferrous rolling and drawing	2.2	2.0	1.6	1.0	.3	.8	2.1	2.7	.8	.6	.6	1.5
3351	Copper rolling and drawing	2.3	2.4	1.9	.8	.2	1.5	2.4	3.4	1.0	.6	.5	2.1
3353	Aluminum sheet, plate, and foil	1.2	1.5	.8	.6	.3	.8	1.3	1.8	.3	.3	.6	1.1
3357	Nonferrous wire drawing and insulating	2.2	1.9	1.5	1.0	.3	.6	1.9	2.8	.7	.5	.6	1.7
336	Nonferrous foundries	4.5	3.9	3.4	1.8	.8	1.8	4.9	5.2	2.2	1.4	1.6	2.9
3361	Aluminum foundries	4.5	4.1	3.4	1.9	.8	1.9	4.9	5.6	2.1	1.4	1.6	3.3
34	FABRICATED METAL PRODUCTS	4.0	3.5	3.1	2.0	.7	1.3	4.1	4.3	2.0	1.4	1.2	2.1
341	Metal cans and shipping containers	4.1	4.0	1.7	1.0	2.0	2.7	4.4	5.2	1.1	.7	2.3	3.6
3411	Metal cans	4.0	4.1	1.2	.7	2.3	3.0	4.3	5.5	.8	.6	2.6	4.1
342	Cutlery, hand tools, and hardware	3.4	3.3	2.7	1.6	.5	1.5	3.8	4.2	1.8	1.1	1.1	2.3
3423, 5	Hand and edge tools, and hand saws and blades	3.2	2.5	2.8	1.5	.3	1.0	3.1	3.6	1.8	1.1	.5	1.8
3429	Hardware, nec	3.6	3.9	2.7	1.6	.7	1.9	4.3	4.7	1.8	1.1	1.6	2.8
343	Plumbing and heating, except electric	4.1	3.2	3.3	1.8	.7	1.2	4.0	4.7	2.0	1.3	1.0	2.5
344	Fabricated structural metal products	4.5	3.7	3.7	2.6	.6	1.0	4.5	4.2	2.5	1.7	1.0	1.7
3441	Fabricated structural metal	5.0	3.9	4.2	3.0	.7	.8	4.6	4.3	2.6	1.8	1.0	1.5
3442	Metal doors, sash, and trim	5.9	4.8	4.8	3.1	.9	1.5	6.2	5.6	3.6	2.3	1.4	2.4
3443	Fabricated plate work (boiler shops)	2.7	2.2	2.2	1.6	.3	.5	2.8	2.6	1.4	1.0	.6	.9
3444	Sheet metal work	5.0	4.4	4.2	3.0	.6	1.3	4.9	5.2	2.6	1.9	1.2	2.4
3445	Screw machine products, bolts, etc.	3.8	3.0	3.4	2.0	.3	.9	3.8	3.9	2.2	1.5	.6	1.7
3451	Screw machine products	4.6	3.2	4.2	2.4	.3	.8	4.4	4.1	3.0	1.9	.4	1.6
3452	Bolts, nuts, rivets, and washers	3.1	2.9	2.6	1.7	.3	1.0	3.3	3.8	1.6	1.2	.7	1.7
346	Metal forgings and stampings	3.5	3.9	2.2	1.3	.8	1.9	4.1	4.9	1.4	.9	1.9	3.2
3462	Iron and steel forgings	2.9	3.0	1.9	1.3	.8	1.5	3.1	3.6	1.0	.8	1.4	2.2
3465	Automotive stampings	3.2	5.4	1.0	.5	1.1	3.2	4.8	6.7	.8	.5	3.3	5.6
3469	Metal stampings, nec	4.1	3.4	3.5	2.0	.5	1.2	4.1	4.2	2.2	1.3	1.0	2.0
347	Metal services, nec	5.8	4.5	4.8	3.2	.8	1.2	5.8	5.4	3.2	2.2	1.2	2.2
348	Ordinance and accessories, nec	2.1	2.1	1.6	1.1	.3	.6	1.9	2.3	.9	.7	.5	1.0
349	Misc. fabricated metal products	3.8	3.1	3.1	1.9	.5	1.1	3.7	3.8	2.1	1.3	.8	1.7
3494	Valves and pipe fittings	3.0	2.7	2.4	1.7	.4	.8	2.7	2.6	1.4	1.0	.5	.9
3496	Misc. fabricated wire products	5.7	4.3	4.9	2.6	.5	1.6	5.3	5.5	3.4	2.1	.9	2.6

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER—ANNUAL AVERAGES**

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
35	MACHINERY, EXCEPT ELECTRICAL	2.9	2.4	2.4	1.6	0.3	0.5	2.7	2.8	1.4	1.0	0.5	1.1
351	Engines and turbines	2.5	2.1	1.3	.5	.4	.8	2.6	3.3	.6	.4	.8	1.8
3511	Turbines and turbine generator sets	1.6	1.5	.7	.6	.0	.1	2.2	1.7	.3	.2	.6	.2
3519	Internal combustion engines, nec	2.9	2.3	1.5	.5	.5	1.1	2.7	4.0	.7	.4	.8	2.5
352	Farm and garden machinery	3.9	2.6	3.1	1.2	.4	1.2	3.2	4.6	1.7	.9	.5	2.9
3523	Farm machinery and equipment	3.8	2.4	3.0	1.2	.4	1.0	3.1	4.3	1.7	.9	.5	2.6
353	Construction and related machinery	2.5	2.0	2.1	1.5	.3	.4	2.4	2.5	1.2	.9	.5	1.0
3531	Construction machinery	2.0	1.4	1.4	.6	.4	.6	2.2	2.5	.8	.5	.8	1.5
3533	Oil field machinery	3.4	3.3	3.0	3.1	.2	.1	2.9	2.3	1.9	1.5	.2	.1
354	Metalworking machinery	2.9	2.3	2.4	1.6	.3	.4	2.5	2.5	1.4	1.0	.4	.9
3541	Machine tools, metal cutting types	2.4	1.6	2.1	1.4	.1	.1	1.7	1.5	1.0	.7	.1	.3
3544	Special dies, tools, jigs, and fixtures	3.3	3.0	2.6	2.0	.4	.7	3.3	3.3	1.6	1.2	.6	1.2
3545	Machine tool accessories	3.0	2.0	2.6	1.5	.2	.3	2.3	2.3	1.4	1.0	.2	.7
355	Special industry machinery	2.4	2.0	2.1	1.5	.2	.3	2.2	2.3	1.3	1.0	.3	.7
3551	Food products machinery	2.2	1.9	2.0	1.5	.2	.3	2.1	2.4	1.2	1.0	.3	.8
3552	Textile machinery	3.0	2.4	2.4	1.7	.3	.4	3.4	2.9	1.7	1.2	.9	.8
356	General industrial machinery	2.4	2.1	2.0	1.3	.2	.5	2.4	2.7	1.2	.9	.5	1.2
3561	Pumps and pumping equipment	2.1	1.9	1.9	1.3	.1	.4	2.1	2.3	1.2	.8	.3	.9
3562	Ball and roller bearings	2.2	2.5	1.5	1.0	.2	.4	2.2	2.9	.9	.6	.7	1.6
3564	Blowers and fans	3.0	2.6	2.6	1.7	.3	.7	2.9	3.2	1.6	1.2	.6	1.4
357	Office and computing machines	2.9	2.2	2.5	1.8	.1	.1	2.2	1.9	1.3	1.0	.1	.2
3573	Electronic computing equipment	2.9	2.2	2.6	1.9	.1	.1	2.1	1.8	1.3	1.0	(1)	.1
358	Refrigeration and service machinery	3.1	3.2	2.2	1.5	.5	1.2	3.4	3.7	1.4	.9	1.0	1.8
3585	Refrigeration and heating equipment	3.2	3.3	2.1	1.3	.6	1.4	3.6	4.1	1.3	.8	1.1	2.1
359	Misc. machinery, except electrical	3.8	3.2	3.3	2.4	.4	.7	3.6	3.8	2.2	1.6	.6	1.4
36	ELECTRIC AND ELECTRONIC EQUIPMENT	3.4	2.7	2.5	1.7	.4	.6	3.2	3.2	1.7	1.2	.6	1.1
361	Electric distributing equipment	3.2	2.8	2.3	1.6	.3	.6	3.3	3.3	1.6	1.1	.4	1.1
3612	Transformers	3.1	2.4	2.1	1.2	.3	.5	3.2	3.1	1.5	1.0	.4	1.1
3613	Switchgear and switchboard apparatus	3.2	3.1	2.5	1.9	.3	.7	3.3	3.4	1.7	1.3	.4	1.1
362	Electrical industrial apparatus	2.9	2.5	2.0	1.3	.4	.9	2.9	3.1	1.4	.9	.6	1.4
3621	Motors and generators	3.0	2.8	1.9	1.1	.6	1.2	3.1	3.5	1.3	.8	.9	1.8
3622	Industrial controls	2.7	2.4	2.0	1.4	.3	.5	2.7	2.8	1.3	.9	.4	1.0
363	Household appliances	4.2	3.6	2.4	1.3	1.1	1.5	4.2	4.9	1.8	1.0	1.1	2.5
3632	Household refrigerators and freezers	5.1	5.0	1.8	.4	1.8	2.8	5.3	6.7	1.5	.5	1.8	3.9
3633	Household laundry equipment	2.8	2.9	1.2	.6	1.0	1.4	1.9	3.8	.7	.3	.3	2.4
3634	Electric housewares and fans	4.6	3.7	3.4	2.4	1.0	.9	4.9	4.3	2.9	1.7	1.1	1.4
364	Electric lighting and wiring equipment	3.5	2.7	2.7	1.6	.5	.7	3.7	3.5	1.8	1.2	1.0	1.5
3641	Electric lamps	2.1	1.8	1.3	.7	.2	.5	2.1	2.6	.8	.6	.5	1.2
3643	Current-carrying wiring devices	3.4	2.4	2.7	1.7	.4	.4	3.1	2.9	1.8	1.2	.6	.9
365	Radio and TV receiving equipment	4.0	3.9	2.0	1.5	1.1	1.0	4.7	4.8	1.6	1.1	1.7	2.3
3651	Radio and TV receiving sets	3.7	3.7	1.8	1.5	.8	.5	4.5	4.2	1.4	.9	1.4	1.6
366	Communication equipment	2.3	2.0	1.8	1.5	.2	.1	1.9	1.8	1.1	.9	.2	.4
3661	Telephone and telegraph apparatus	1.7	1.1	1.4	.9	.2	.1	1.2	1.5	.6	.5	.1	.7
3662	Radio and TV communication equipment	2.6	2.3	2.1	1.9	.2	.2	2.2	2.0	1.3	1.1	.3	.3
367	Electronic components and accessories	4.4	3.0	3.8	2.4	.3	.4	3.8	3.3	2.5	1.8	.3	.7
3671-3	Electronic tubes	2.5	1.8	1.7	1.2	.3	.2	2.3	2.2	1.0	.9	.4	.6
3674	Semiconductors and related devices	3.4	2.4	3.0	2.0	.2	.2	2.6	2.3	1.6	1.3	.2	.3
3679	Electronic components, nec	5.2	3.6	4.6	2.9	.4	.5	4.6	4.0	3.2	2.2	.4	1.0
369	Misc. electrical equipment and supplies	2.8	2.9	1.8	1.3	.6	1.1	3.5	3.6	1.3	.9	1.2	1.9
3694	Engine electrical equipment	2.3	2.9	1.3	.8	.7	1.3	3.5	3.9	1.0	.6	1.8	2.4
37	TRANSPORTATION EQUIPMENT	3.4	3.4	2.0	1.4	1.0	1.5	3.6	4.2	1.1	.8	1.6	2.5
371	Motor vehicles and equipment	3.0	3.9	1.4	.6	1.0	2.3	3.9	6.0	.9	.6	2.1	4.5
3711	Motor vehicles and car bodies	3.1	3.9	1.3	.7	1.2	2.0	3.6	6.6	.7	.5	2.0	5.2
3713	Truck and bus bodies	3.9	4.3	2.7	1.5	1.1	2.4	4.4	5.5	1.8	1.3	1.6	3.5
3714	Motor vehicle parts and accessories	2.7	3.8	1.1	.5	.9	2.5	4.1	5.5	.8	.6	2.4	3.8
3715,6	Truck trailers and motor homes	4.7	4.2	4.0	1.2	.5	3.0	5.2	6.3	2.3	1.2	1.3	4.3
372	Aircraft and parts	2.7	1.9	2.2	1.5	.2	.2	1.7	1.6	1.0	.8	.2	.3
3721	Aircraft	2.4	1.7	1.9	1.2	.2	.2	1.4	1.3	.8	.7	.2	.3
3724	Aircraft engines and engine parts	2.1	1.5	1.7	1.0	.1	.1	1.3	1.3	.6	.5	.1	.2
3728	Aircraft equipment, nec	4.2	3.0	3.8	2.7	.2	.2	2.9	2.7	1.8	1.4	.1	.5
373	Ship and boat building and repairing	6.7	5.7	4.0	2.9	2.6	2.6	6.6	6.0	2.3	1.7	3.0	3.3
3731	Ship building and repairing	7.0	5.6	3.8	2.7	3.0	2.7	6.5	5.6	2.1	1.5	3.3	3.1
3732	Boat building and repairing	5.7	6.2	4.5	3.8	1.0	2.3	6.8	7.8	3.2	2.6	2.3	3.8
374	Railroad equipment	3.5	2.7	1.6	.8	1.2	1.5	3.1	4.8	.7	.4	1.0	3.3
376	Guided missiles, space vehicles, parts	2.4	2.2	1.7	1.7	.3	.2	1.5	1.3	.7	.6	.3	.2
3761	Guided missiles and space vehicles	2.3	2.2	1.7	1.8	.3	.1	1.3	1.2	.7	.6	.3	.2
379	Miscellaneous transportation equipment	6.4	6.8	4.2	4.1	1.9	2.3	9.3	6.4	3.7	2.1	4.3	3.1
38	INSTRUMENTS AND RELATED PRODUCTS	2.9	2.5	2.4	2.0	.2	.3	2.6	2.4	1.5	1.3	.4	.5
381	Engineering and scientific instruments	2.8	2.5	2.6	2.3	.1	.1	2.0	1.9	1.4	1.2	.1	.3
382	Measuring and controlling devices	3.1	2.4	2.4	1.8	.2	.3	2.5	2.4	1.4	1.2	.3	.6
3822	Environmental controls	3.1	2.7	2.1	1.5	.4	.9	2.7	3.1	1.3	1.0	.6	1.3
3823	Process control instruments	2.7	2.6	2.3	2.2	.3	.2	2.4	2.3	1.4	1.2	.3	.4
3825	Instruments to measure electricity	3.2	2.1	2.5	1.6	.1	.1	2.2	1.9	1.5	1.2	.1	.2

See footnotes at end of table.

ESTABLISHMENT DATA
LABOR TURNOVER—ANNUAL AVERAGES

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	INSTRUMENTS AND RELATED PRODUCTS—Cont'd												
383	Optical instruments and lenses	3.0	2.8	2.7	2.5	0.1	0.1	2.3	2.3	1.7	1.4	0.1	0.3
384	Medical instruments and supplies	3.4	3.0	3.0	2.5	.3	.3	3.2	2.9	2.0	1.6	.4	.5
3841	Surgical and medical instruments	4.1	3.3	3.7	2.8	.2	.2	3.6	3.3	2.5	1.9	.2	.6
3842	Surgical appliances and supplies	2.9	2.8	2.4	2.2	.4	.4	2.9	2.7	1.6	1.4	.5	.5
385	Ophthalmic goods	4.1	3.5	3.0	2.4	.5	.6	4.0	3.7	2.3	1.8	.9	1.0
386	Photographic equipment and supplies	1.7	1.8	1.6	1.6	.0	.1	1.6	1.4	.9	.8	.2	.2
387	Watches, clocks, and watchcases	3.4	3.1	2.4	1.5	.7	1.4	4.9	4.7	2.0	1.3	1.7	2.4
39	MISCELLANEOUS MANUFACTURING												
	INDUSTRIES	5.4	4.5	4.2	2.9	1.1	1.4	5.8	5.3	2.8	2.0	1.8	2.4
391	Jewelry, silverware, and plated ware	4.0	3.9	3.0	2.6	.9	1.2	4.8	4.8	2.3	1.7	1.7	2.3
393	Musical instruments	3.9	3.6	2.9	2.0	.7	1.2	4.5	4.3	2.6	1.8	1.0	1.7
394	Toys and sporting goods	8.2	6.0	6.1	3.7	1.8	1.9	8.1	7.2	3.7	2.5	2.6	3.5
3942.4	Dolls, games, toys, and children's vehicles	11.1	7.2	8.1	4.3	2.7	2.5	11.0	8.9	4.9	3.2	3.8	4.4
3949	Sporting and athletic goods, nec	5.4	4.9	4.2	3.0	.9	1.4	5.5	5.6	2.6	1.8	1.5	2.7
395	Pens, pencils, office and art supplies	3.5	3.1	2.9	2.4	.4	.5	3.7	3.2	2.0	1.5	.7	.7
396	Costume jewelry and notions	6.2	5.3	4.7	3.4	1.3	1.7	7.4	6.2	3.7	2.4	2.6	2.7
399	Miscellaneous manufactures	4.2	3.8	3.4	2.5	.7	1.2	4.4	4.4	2.2	1.6	1.2	1.9
	NONDURABLE GOODS												
20	FOOD AND KINDRED PRODUCTS	6.7	6.0	4.7	3.8	1.7	2.0	6.6	6.2	3.3	2.5	2.3	2.8
201	Meat products	7.4	6.0	5.7	4.3	1.2	1.3	7.3	6.1	4.9	3.5	1.4	1.6
2011	Meat packing plants	4.8	4.1	3.1	2.3	1.4	1.4	4.9	4.2	2.1	1.6	1.8	1.9
2013	Sausages and other prepared meats	4.4	4.3	2.9	2.3	1.3	1.8	4.8	4.8	2.1	1.6	1.8	2.3
2016	Poultry dressing plants	12.5	9.3	10.9	8.0	.9	.8	12.0	9.3	10.3	7.1	.6	.8
202	Dairy products	3.7	3.3	2.9	2.5	.6	.6	3.7	3.2	2.3	1.7	.8	.9
203	Preserved fruits and vegetables	14.3	14.3	9.2	8.0	5.0	6.1	14.1	14.9	5.4	4.2	7.4	9.5
204	Grain mill products	4.0	3.3	2.9	2.3	.9	.9	4.0	3.7	2.1	1.5	1.1	1.5
205	Bakery products	3.4	2.8	2.8	2.2	.5	.5	3.4	2.8	2.1	1.5	.7	.8
2051	Bread, cake, and related products	3.4	2.7	2.9	2.3	.3	.3	3.3	2.7	2.1	1.6	.5	.5
2052	Cookies and crackers	3.7	3.3	2.3	1.8	1.2	1.4	3.9	3.6	1.7	1.1	1.5	1.9
206	Sugar and confectionery products	6.2	5.4	3.3	2.4	2.6	2.8	6.2	6.0	2.1	1.6	3.3	3.5
207	Fats and oils	4.1	3.3	3.1	2.4	.8	.9	4.1	3.7	2.0	1.6	1.2	1.4
208	Beverages	4.8	4.3	3.3	2.7	1.3	1.4	4.7	4.3	2.2	1.7	1.5	1.7
2082	Malt beverages	4.6	4.5	1.6	1.3	2.7	3.0	4.3	4.6	.5	.4	2.9	3.4
2086	Bottled and canned soft drinks	4.9	3.9	4.4	3.5	.4	.3	4.8	3.8	3.2	2.4	.6	.5
209	Misc. foods and kindred products	7.4	7.3	5.3	4.4	1.9	2.6	7.3	7.7	3.6	3.1	2.6	3.8
21	TOBACCO MANUFACTURES	4.1	4.2	1.6	1.6	1.7	1.8	4.1	3.6	.9	.7	2.4	2.0
211	Cigarettes	1.6	1.9	.6	.7	.3	.3	1.4	1.2	.4	.2	.2	.1
22	TEXTILE MILL PRODUCTS	4.6	3.7	3.6	2.7	.6	.7	4.8	4.1	3.0	2.2	.8	1.0
221	Weaving mills, cotton	4.3	3.2	3.4	2.4	.2	.2	4.1	3.3	2.7	2.0	.2	.3
222	Weaving mills, synthetics	4.1	3.1	3.5	2.5	.3	.4	4.3	3.7	3.0	2.0	.3	.8
223	Weaving and finishing mills, wool	5.1	3.9	4.2	2.6	.7	1.1	5.6	4.6	3.4	2.1	1.1	1.6
224	Narrow fabric mills	4.9	4.6	3.6	2.9	1.1	1.4	5.0	4.7	2.8	2.0	1.4	1.9
225	Knitting mills	4.9	4.1	3.7	3.1	.9	.8	5.1	4.5	3.1	2.4	1.2	1.3
2251	Women's hosiery, except socks	5.4	3.1	4.8	2.8	.4	.3	5.4	3.9	3.9	2.5	.6	.6
2252	Hosiery, nec	4.9	4.2	4.4	3.6	.4	.5	5.1	4.1	3.8	2.9	.5	.6
2253	Knit outerwear mills	5.4	4.8	3.7	3.6	1.3	1.0	5.4	4.8	3.1	2.4	1.5	1.4
2254	Knit underwear mills	3.5	3.2	2.9	2.7	.4	.3	3.8	3.5	2.9	2.2	.4	.6
2257	Circular knit fabric mills	5.3	4.5	3.7	3.2	1.1	1.1	5.5	5.2	2.8	2.2	1.2	1.6
226	Textile finishing, except wool	4.0	3.2	2.9	2.5	.7	.5	4.2	3.8	2.2	1.8	1.0	1.0
227	Floor covering mills	4.2	3.0	3.5	1.8	.5	.9	4.4	3.6	2.8	1.7	.6	1.1
228	Yarn and thread mills	5.8	4.4	4.7	3.5	.7	.6	6.0	5.0	4.2	3.0	.6	.8
229	Miscellaneous textile goods	3.8	3.4	2.9	1.9	.6	1.3	4.2	3.9	2.1	1.5	1.1	1.5
23	APPAREL AND OTHER TEXTILE PRODUCTS	5.5	5.3	3.8	3.3	1.5	1.7	6.0	5.7	3.2	2.7	2.0	2.1
231	Men's and boys' suits and coats	3.9	4.1	1.8	2.3	1.5	1.4	4.7	4.2	1.6	1.7	2.4	1.8
232	Men's and boys' furnishings	5.5	4.8	4.3	3.6	1.0	1.0	5.8	5.2	4.0	3.3	1.1	1.1
2321	Men's and boys' shirts and nightwear	5.1	4.3	3.9	3.2	.9	.9	5.3	4.5	3.7	2.9	.8	.8
2327	Men's and boys' separate trousers	4.8	4.2	4.1	3.6	.6	.5	4.9	4.4	3.8	3.3	.6	.5
2328	Men's and boys' work clothing	6.3	5.2	5.5	4.3	.7	.8	6.4	5.6	5.0	4.1	.7	1.0
233	Women's and misses' outerwear	5.7	5.7	3.3	3.1	2.2	2.4	6.3	6.2	2.7	2.4	2.7	2.9
234	Women's and children's undergarments	5.2	4.6	3.8	3.3	1.1	1.1	5.7	5.1	3.3	2.9	1.5	1.6
2341	Women's and children's underwear	5.2	4.7	3.8	3.4	1.2	1.2	5.7	5.3	3.6	3.1	1.4	1.6
2342	Brassieres and allied garments	4.9	4.0	3.5	3.1	1.1	.7	5.4	4.4	2.2	2.0	2.2	1.6
236	Children's outerwear	5.0	6.1	3.6	4.1	1.3	1.8	5.8	5.9	3.1	3.1	2.0	1.9
238	Misc. apparel and accessories	5.9	5.7	4.1	3.1	1.5	2.5	6.2	6.5	3.4	2.6	2.0	3.0
239	Misc. fabricated textile products	6.0	5.6	4.5	3.4	1.3	1.9	6.5	6.0	3.3	2.5	2.0	2.5
26	PAPER AND ALLIED PRODUCTS	2.8	2.5	2.1	1.5	.5	.8	2.9	2.9	1.4	1.0	.7	1.2
261,2,6	Paper and pulp mills	1.7	1.6	1.2	.9	.3	.6	1.5	1.8	.7	.5	.4	.8
262	Paper mills, except building paper	1.6	1.6	1.2	.8	.3	.6	1.4	1.7	.6	.5	.4	.7

See footnotes at end of table.

ESTABLISHMENT DATA LABOR TURNOVER—ANNUAL AVERAGES

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
	PAPER AND ALLIED PRODUCTS—Continued												
263	Paperboard mills	1.8	1.8	1.3	1.0	0.3	0.7	1.9	2.4	0.9	0.7	0.4	1.2
264	Misc. converted paper products	3.5	3.0	2.8	2.0	.6	.9	3.5	3.6	1.9	1.3	.8	1.4
265	Paperboard containers and boxes	3.4	2.9	2.6	1.7	.7	1.0	3.8	3.5	1.7	1.2	1.1	1.5
2651	Folding paperboard boxes	3.3	3.0	2.5	1.7	.7	1.1	3.4	3.4	1.6	1.1	1.0	1.5
2653	Corrugated and solid fiber boxes	3.0	2.3	2.4	1.4	.4	.7	3.3	2.9	1.7	1.1	.7	1.1
27	PRINTING AND PUBLISHING	3.6	3.1	3.0	2.5	.4	.5	3.4	3.2	2.2	1.9	.6	.8
271	Newspapers	3.7	3.3	3.4	3.1	.1	.1	3.5	3.3	2.8	2.6	.1	.2
272	Periodicals	2.9	2.7	2.7	2.5	.2	.2	2.6	2.5	1.9	1.7	.2	.2
273	Books	3.7	3.2	2.6	2.2	.9	.9	3.6	3.5	1.9	1.6	1.1	1.4
274	Miscellaneous publishing	3.6	3.1	2.9	2.7	.5	.4	3.5	2.9	2.1	1.8	.7	.4
275	Commercial printing	3.3	3.0	2.6	2.2	.6	.7	3.2	3.2	1.7	1.3	.8	1.2
2751	Commercial printing, letterpress	3.4	3.0	2.5	2.1	.8	.8	3.4	3.4	1.8	1.4	.9	1.5
2752	Commercial printing, lithographic	3.4	3.0	2.7	2.3	.5	.6	3.1	3.1	1.6	1.3	.8	1.1
278	Blankbooks and bookbinding	5.0	3.7	4.3	2.8	.6	.9	5.0	4.2	3.0	1.9	1.1	1.6
28	CHEMICALS AND ALLIED PRODUCTS	1.8	1.6	1.4	1.2	.2	.3	1.7	1.8	.9	.7	.3	.5
281	Industrial inorganic chemicals	1.4	1.3	1.1	1.0	.2	.2	1.3	1.4	.6	.5	.2	.5
2819	Industrial inorganic chemicals, nec	1.4	1.3	1.1	1.0	.2	.1	1.2	1.3	.6	.5	.2	.4
282	Plastics materials and synthetics	1.3	1.1	1.0	.7	.1	.3	1.2	1.4	.6	.5	.2	.6
2821	Plastics materials and resins	1.7	1.4	1.5	1.0	.1	.3	1.6	1.6	.8	.6	.2	.4
2824	Organic fibers, noncellulosic	.7	.6	.5	.3	.1	.2	.8	1.2	.4	.3	.1	.5
283	Drugs	1.6	1.6	1.3	1.2	.2	.2	1.5	1.5	.8	.7	.3	.3
2834	Pharmaceutical preparations	1.7	1.6	1.4	1.2	.2	.2	1.6	1.5	.8	.7	.3	.3
284	Soap, cleaners, and toilet goods	2.8	2.4	2.0	1.7	.6	.5	2.8	2.5	1.3	1.0	.8	.8
2841	Soap and other detergents	1.8	1.7	1.1	.9	.7	.7	2.0	2.0	.6	.5	.9	1.0
2844	Toilet preparations	3.5	2.9	2.5	2.1	.7	.5	3.3	2.8	1.6	1.2	.9	.8
285	Paints and allied products	2.5	2.1	2.1	1.5	.2	.4	2.5	2.6	1.4	1.1	.4	.8
286	Industrial organic chemicals	1.2	1.1	1.0	.8	.1	.1	1.2	1.3	.6	.5	.1	.3
287	Agricultural chemicals	3.2	2.4	2.6	1.8	.6	.4	2.8	2.6	1.4	1.0	.7	.8
289	Miscellaneous chemical products	2.3	2.2	1.7	1.5	.4	.5	2.4	2.2	1.1	.9	.6	.7
29	PETROLEUM AND COAL PRODUCTS	2.4	2.2	2.0	1.7	.2	.4	2.1	2.1	.9	.7	.6	.8
291	Petroleum refining	1.8	1.7	1.6	1.5	.1	.1	1.4	1.4	.5	.5	.4	.4
295	Paving and roofing materials	4.8	4.7	3.7	2.7	1.0	1.9	5.0	5.7	2.4	1.7	1.5	3.0
30	RUBBER AND MISC. PLASTICS PRODUCTS	4.8	4.1	3.8	2.5	.7	1.3	5.2	5.1	2.8	1.9	1.2	2.2
301	Tires and inner tubes	1.6	1.7	.9	.4	.3	.9	2.0	3.3	.6	.3	.7	2.1
302	Rubber and plastics footwear	7.7	7.5	6.3	5.0	.8	2.2	8.4	7.9	5.3	3.6	1.4	2.7
303,4	Reclaimed rubber, and rubber and plastics hose and belting	3.1	2.8	2.4	1.1	.4	1.5	3.4	4.5	1.8	.9	.9	2.9
306	Fabricated rubber products, nec	3.7	3.4	2.7	1.5	.6	1.5	4.5	4.2	2.0	1.1	1.4	2.1
307	Miscellaneous plastics products	5.9	4.8	4.8	3.1	.8	1.3	6.1	5.6	3.5	2.4	1.3	2.2
31	LEATHER AND LEATHER PRODUCTS	6.9	6.3	4.8	4.4	1.7	1.7	7.6	6.8	4.2	3.3	2.3	2.5
311	Leather tanning and finishing	5.6	5.5	3.2	3.2	2.3	2.2	6.6	5.1	2.6	1.9	3.0	2.3
314	Footwear, except rubber	7.1	6.3	5.1	4.7	1.6	1.2	7.9	6.3	4.6	3.6	2.1	1.7
3143	Men's footwear, except athletic	6.1	5.6	4.8	4.5	.9	.7	6.8	5.7	4.6	3.7	1.1	1.0
3144	Women's footwear, except athletic	7.6	6.2	4.9	4.3	2.0	1.4	8.3	6.5	4.5	3.4	2.6	2.1
	NONMANUFACTURING:												
	MINING	4.8	5.0	3.7	3.8	.7	.7	4.3	4.5	2.7	2.8	.7	.8
10	METAL MINING	3.2	2.9	2.5	1.7	.4	.7	2.8	3.3	1.5	1.1	.5	1.3
101	Iron ores	2.4	4.6	1.0	.4	.6	2.6	2.4	6.3	.5	.4	.7	4.3
102	Copper ores	4.4	3.6	3.6	2.8	.4	.2	3.0	2.2	1.2	1.0	.6	.2
12	BITUMINOUS COAL AND LIGNITE MINING	1.7	1.5	1.0	.7	.4	.5	2.1	2.2	.7	.5	1.0	1.2
13	OIL AND GAS EXTRACTION	7.1	7.4	5.7	6.2	.9	.7	6.0	5.9	4.3	4.5	.5	.2
131, 2	Crude petroleum, natural gas, and natural gas liquids	2.5	2.6	1.9	2.1	.4	.2	1.8	1.7	1.0	1.0	.2	.1
138	Oil and gas field services	10.4	10.6	8.3	8.9	1.3	1.0	9.0	8.7	6.6	6.7	.7	.3
14	NONMETALLIC MINERALS, EXCEPT FUELS	3.9	3.0	2.8	1.8	.9	1.1	3.6	3.8	1.8	1.3	1.1	1.8
142	Crushed and broken stone	4.1	3.1	2.8	1.6	1.1	1.4	3.7	4.3	1.8	1.3	1.4	2.3
144	Sand and gravel	4.9	4.0	3.2	2.2	1.4	1.6	4.9	5.1	2.0	1.5	1.9	2.8
	COMMUNICATION:												
481	Telephone communication	1.2	.9	1.1	.8	.0	.0	1.0	.8	.5	.4	.2	.1

¹ Less than 0.05.

p=preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED LABOR TURNOVER

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

[Per 100 employees]

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

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		
	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P	
ALABAMA:													
Birmingham	2.6	2.4	0.8	0.7	1.7	1.6	3.1	2.5	0.5	0.4	2.2	1.8	
Mobile	5.1	6.8	1.1	.5	4.0	6.3	7.1	7.7	.9	.5	5.8	6.7	
ALASKA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	
ARIZONA	3.2	2.4	2.7	1.8	.4	.4	2.5	2.6	1.4	1.3	.5	.6	
Phoenix	3.2	2.4	2.7	1.8	.5	.5	2.5	2.4	1.3	1.2	.5	.4	
ARKANSAS	3.6	3.5	2.5	2.0	.7	1.3	4.3	4.5	2.0	1.5	1.6	2.4	
Fort Smith	3.8	2.9	2.0	1.5	1.5	1.1	3.9	3.0	1.5	1.5	1.1	1.0	
Little Rock—North Little Rock	2.3	2.0	1.6	1.3	.7	.4	4.2	3.6	1.3	.9	1.7	2.2	
Pine Bluff	2.2	2.5	1.6	1.6	.5	.7	2.2	2.0	1.2	1.0	.2	.5	
CALIFORNIA	3.2	2.4	2.4	1.6	.7	.6	3.4	3.6	1.4	1.2	1.3	1.7	
COLORADO	2.8	2.2	2.3	1.8	.5	.4	3.4	2.7	1.5	1.3	1.1	.9	
Denver—Boulder	2.7	2.2	2.3	1.9	.4	.2	2.2	2.2	1.2	1.2	.6	.6	
CONNECTICUT	1.9	1.4	1.4	1.0	.4	.4	1.7	1.7	8	.6	.4	.6	
Hartford	1.4	1.0	1.1	.7	.2	.2	1.8	1.6	9	.6	.4	.5	
DELAWARE	1.9	1.9	1.1	1.1	.4	.4	2.7	8.8	.9	.6	1.0	7.6	
Wilmington	1.2	1.2	.6	.5	.2	.3	1.7	9.0	.4	.3	.6	8.2	
FLORIDA	4.8	3.5	3.4	2.8	1.2	.5	4.0	3.6	2.4	2.0	.8	.9	
Fort Lauderdale—Hollywood	4.1	3.8	3.6	2.9	.4	.8	3.0	2.7	2.1	1.7	.2	.4	
Jacksonville	3.9	2.5	1.8	1.5	2.0	.9	3.2	3.8	1.1	1.1	1.6	2.1	
Miami	4.3	3.0	3.5	2.6	.7	.4	4.1	3.8	2.3	2.1	.8	.9	
Orlando	4.0	4.8	2.9	4.1	1.0	.6	3.0	3.2	2.0	1.7	.5	.8	
Pensacola	1.8	1.4	1.7	1.2	.1	(¹)	1.6	1.1	1.1	.7	(¹)	(¹)	
Tampa—St. Petersburg	4.8	3.6	3.9	3.1	.8	.5	4.5	4.5	2.9	2.7	.8	.8	
West Palm Beach—Boca Raton	6.0	2.2	3.3	2.1	2.7	.1	3.2	2.3	2.4	1.6	.1	.1	
GEORGIA	2.5	1.8	1.9	1.3	.3	.3	2.6	2.1	1.5	1.0	.5	.5	
Atlanta	2.0	1.5	1.7	1.0	.2	.4	2.4	1.6	1.2	.7	.8	.4	
HAWAII ³	1.8	3.7	1.2	1.1	.3	1.3	1.4	3.5	.5	.6	.5	2.4	
IDAHO ⁴	1.8	1.5	1.4	1.0	.3	.4	2.8	5.5	1.0	.9	1.3	3.8	
ILLINOIS:													
Chicago SMSA	2.2	1.7	1.2	1.0	.7	.5	2.1	2.1	.7	.6	.7	.8	
Davenport—Rock Island—Moline	2.2	1.1	.4	.4	1.5	.6	1.6	1.9	.4	.3	.7	1.2	
Decatur	2.9	1.0	.3	.3	2.6	.7	1.6	1.2	.1	.1	.9	.6	
Peoria	3.8	1.4	.1	.3	3.5	.8	2.9	1.5	.2	.2	2.1	1.2	
Rockford	10.8	.8	.6	.5	10.2	.2	11.9	11.3	.4	.3	11.0	10.7	
INDIANA ⁵	2.7	(*)	.9	(*)	1.2	(*)	2.6	(*)	.6	(*)	1.4	(*)	
Indianapolis ⁶	3.2	1.7	1.0	.7	1.2	.6	2.4	4.7	1.0	.8	.6	3.1	
IOWA	2.4	1.4	.9	.5	1.3	.7	3.7	3.4	.6	.4	2.7	2.4	
Cedar Rapids	2.6	1.1	.6	.2	1.7	.6	2.6	1.7	.5	.3	1.5	1.0	
Des Moines	3.2	(*)	.8	(*)	2.1	(*)	4.4	(*)	.5	(*)	3.1	(*)	
KANSAS	3.3	2.5	2.0	1.7	1.2	.6	2.7	2.6	1.5	1.1	.6	.9	
Topeka	5.0	3.6	1.7	1.7	3.2	1.9	2.6	2.7	.9	.9	.9	1.2	
Wichita	2.4	1.5	1.8	1.2	.4	.1	2.6	2.4	1.4	1.0	.3	.6	
KENTUCKY	3.7	3.4	1.0	1.1	2.2	1.9	2.9	3.4	.6	.6	1.6	2.3	
Lexington—Fayette	3.0	2.3	.7	.8	2.2	1.3	2.0	1.4	.5	.4	1.2	.8	
Louisville	2.5	3.2	.7	.7	1.0	1.7	2.1	1.9	.4	.3	.6	.6	
LOUISIANA:													
New Orleans	4.3	2.6	3.6	2.2	.5	.3	3.4	3.4	1.7	1.4	.6	1.0	
MAINE	2.8	2.8	1.9	1.6	.7	.8	4.6	5.2	1.6	1.2	2.3	3.3	
Portland	2.2	2.2	1.7	1.7	.3	.3	2.0	2.0	1.4	1.4	.2	.2	
MARYLAND	2.3	1.9	1.2	.8	.9	.9	2.4	2.8	.7	.6	1.1	1.6	
Baltimore	2.1	1.9	.9	.6	.9	1.1	2.2	2.6	.5	.4	1.1	1.6	
MASSACHUSETTS	2.6	2.2	1.7	1.3	.6	.6	2.8	2.9	1.1	.9	1.0	1.3	
Boston	2.2	2.2	1.8	1.6	.2	.4	2.4	2.6	1.0	.9	.8	1.1	

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	
	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P
MICHIGAN	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Detroit	1.4	.9	.3	.1	.7	.2	1.2	.6	.3	.1	.7	.4
Flint	9.4	1.5	.1	(¹)	.1	(¹)	2.8	2.6	.3	.1	1.7	2.1
Grand Rapids	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Lansing—East Lansing	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
MINNESOTA	2.1	1.7	1.4	1.2	.5	.4	2.6	3.5	1.1	.9	1.0	2.1
Minneapolis—St. Paul	1.8	1.5	1.3	1.1	.3	.3	2.1	2.6	1.0	.8	.6	1.5
MISSISSIPPI:												
Jackson	3.2	2.9	2.8	1.3	.4	1.5	4.7	3.1	1.9	1.3	2.0	1.4
MISSOURI	2.2	2.0	1.3	1.0	.8	.8	2.4	2.7	.9	.7	1.0	1.5
Kansas City	1.9	1.6	1.3	.9	.5	.6	2.1	1.9	.9	.8	.7	.7
St. Louis	1.9	1.3	.8	.5	1.0	.7	2.0	1.9	.5	.3	1.1	1.1
MONTANA	3.7	1.6	1.6	1.3	2.1	.3	4.4	2.7	2.7	2.0	.9	.3
NEBRASKA	2.5	2.0	1.9	1.6	.5	.3	2.4	2.3	1.1	1.0	.8	.7
NEVADA	5.9	3.5	4.1	3.1	1.8	.4	3.9	4.7	2.8	2.8	.3	1.1
NEW HAMPSHIRE	3.5	2.7	2.6	1.8	.7	.7	2.9	3.9	1.6	1.4	.7	1.9
NEW JERSEY:												
Camden ⁷	2.1	2.1	1.2	.9	.7	1.1	3.8	2.4	.6	.4	2.6	1.5
Hackensack	2.8	2.3	2.3	1.7	.4	.4	3.9	4.2	1.2	1.1	1.0	2.1
Jersey City	2.6	2.0	1.2	1.1	1.4	.9	3.0	4.6	.7	.6	1.5	3.0
New Brunswick—Perth Amboy—Sayreville	3.1	2.2	1.7	1.7	1.3	.4	2.7	3.0	1.0	.8	1.1	1.4
Newark	2.2	1.7	1.6	1.2	.4	.4	2.3	2.3	.9	.7	.8	1.0
Paterson—Clifton—Passaic	2.8	2.0	1.8	1.1	.7	.6	3.7	2.9	.8	.6	2.0	1.8
Trenton	2.6	3.1	.9	1.0	1.1	2.0	1.8	2.6	.7	.6	.4	1.6
NEW MEXICO	2.9	2.6	2.5	2.4	.3	.2	2.7	2.5	1.7	1.3	.4	.5
NEW YORK	2.7	2.3	1.4	1.2	1.1	1.0	3.2	3.6	.8	.6	1.9	2.3
Albany—Schenectady—Troy	2.5	1.9	.9	.8	1.1	.5	1.8	2.6	.5	.3	.7	1.5
Binghamton	1.3	1.4	.9	1.0	.3	.3	1.7	1.5	.7	.5	.4	.5
Buffalo	3.4	1.8	.6	.5	2.6	1.2	2.0	3.3	.4	.2	1.2	2.5
Elmira	1.8	1.4	1.3	1.0	.3	.3	2.1	1.3	.4	.2	.7	.7
Monroe County ⁸	1.3	1.3	.9	.9	.3	.2	1.1	1.2	.5	.3	.3	.5
Nassau—Suffolk ⁹	3.2	2.5	2.5	2.0	.6	.5	3.0	2.7	1.6	1.2	.7	.8
New York and Nassau—Suffolk	3.0	2.8	1.9	1.5	1.0	1.2	4.0	4.5	1.0	.8	2.3	3.0
New York SMSA ⁹	2.9	2.9	1.8	1.4	1.1	1.4	4.3	5.0	.9	.7	2.7	3.6
New York City ¹⁰	3.1	3.1	1.8	1.4	1.2	1.6	4.7	5.5	.9	.7	3.1	4.0
Rochester	1.6	1.4	1.0	1.0	.5	.4	1.8	1.8	.6	.4	.8	1.1
Syracuse	2.6	2.0	.8	.7	1.5	1.0	2.8	2.1	.5	.5	1.8	1.2
Utica—Rome	2.1	1.6	1.1	.9	.9	.6	2.4	2.9	.7	.5	1.4	1.9
Westchester County ¹⁰	1.8	1.7	1.4	1.0	.2	.4	2.2	2.6	.8	.7	1.0	1.5
NORTH CAROLINA	2.4	1.8	1.9	1.3	.3	.3	2.7	2.7	1.4	1.1	.7	1.0
Charlotte—Gastonia	3.5	1.9	2.9	1.6	.5	.2	2.9	2.2	2.0	1.3	.1	.2
Greensboro—Winston-Salem—High Point	2.0	1.6	1.7	1.2	.1	.1	2.1	3.3	1.2	1.1	.4	1.8
NORTH DAKOTA	2.8	4.4	2.1	1.6	.7	2.5	8.0	7.2	2.1	1.5	5.0	5.2
Fargo—Moorhead	3.3	2.6	1.8	1.2	1.1	1.0	8.2	13.6	.9	.9	6.2	12.0
OHIO	2.2	1.7	.5	.5	(*)	(*)	2.4	2.4	.4	.3	1.5	1.6
Akron	1.6	.9	.5	.4	(*)	(*)	1.1	1.1	.2	.2	.5	.6
Canton	2.6	2.0	.5	.7	(*)	(*)	2.3	2.4	.3	.3	1.3	1.2
Cincinnati	2.4	1.5	.7	.7	(*)	(*)	1.5	1.9	.5	.5	.5	.9
Cleveland	2.2	1.8	.6	.6	(*)	(*)	2.2	1.6	.4	.4	1.1	.6
Columbus	1.6	1.2	.8	.5	(*)	(*)	1.6	1.9	.4	.4	.8	1.1
Dayton	1.7	1.1	.5	.6	(*)	(*)	2.1	1.1	.4	.4	1.0	.4
Toledo	2.6	1.7	.3	.3	(*)	(*)	3.2	2.2	.2	.2	2.2	1.4
Youngstown—Warren	2.8	1.7	.4	.3	(*)	(*)	3.2	7.8	.2	.2	2.6	6.9
OKLAHOMA	4.0	3.2	3.2	2.6	.6	.5	4.0	3.5	2.6	2.1	.6	.7
Oklahoma City	3.2	2.6	2.5	2.0	.4	.5	3.3	2.9	2.2	1.8	.5	.4
Tulsa ¹¹	3.6	3.1	3.0	2.5	.5	.4	3.8	3.7	2.0	1.9	.7	1.2
OREGON ⁵	3.0	2.2	1.8	1.3	1.1	.8	3.5	3.9	1.0	.8	1.9	2.5
Eugene—Springfield ⁵	1.8	1.8	1.0	1.0	.4	.3	2.5	4.3	.6	.5	1.0	2.9
Portland ⁵	3.6	2.3	2.1	1.5	1.4	.8	3.7	3.3	1.1	.8	2.1	1.9

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	
	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P	Nov. 1980	Dec. 1980 ^P
PENNSYLVANIA	2.5	2.1	0.9	0.7	1.4	1.2	2.5	3.1	0.6	0.5	1.5	2.1
Allentown—Bethlehem—Easton	2.3	1.9	.8	.7	1.3	.9	2.7	2.3	.6	.5	1.8	1.5
Altoona	2.0	.7	.8	.2	1.3	.4	1.9	2.9	.7	.3	.8	2.4
Erie	2.0	1.7	.8	.8	1.0	.7	2.1	1.5	.4	.4	1.4	.7
Harrisburgh	2.5	2.0	1.5	.9	.8	.9	2.2	2.0	1.0	.4	.8	1.3
Johnstown	3.8	1.9	.5	.2	3.2	1.6	2.4	3.4	.4	.2	1.4	2.7
Lancaster	1.7	1.2	1.1	.6	.4	.4	1.6	1.8	.7	.6	.6	.7
Northeast Pennsylvania	3.0	2.6	1.1	.9	1.6	1.4	2.8	4.4	.7	.7	1.7	3.4
Philadelphia SMSA	2.1	2.0	1.2	1.0	.8	.9	2.5	2.8	.6	.6	1.3	1.6
Pittsburgh	3.0	2.2	.5	.3	2.1	1.6	2.4	2.9	.3	.2	1.6	2.2
Reading	2.2	2.0	1.2	1.1	.8	.7	2.3	2.9	.8	.6	1.1	1.6
Scranton ¹²	2.4	2.5	1.2	1.1	1.1	1.3	2.6	4.1	1.5	.8	.8	3.0
Wilkes-Barre—Hazleton ¹²	2.9	2.2	1.2	.5	1.4	1.4	3.4	5.1	.6	.5	2.6	4.4
Williamsport	2.3	.7	.5	.2	.4	.4	1.4	1.5	.4	.4	.7	.9
York	1.9	1.4	1.4	1.0	.4	.4	2.3	3.2	.9	.8	.9	1.9
RHODE ISLAND	3.5	2.4	2.4	1.6	.8	.6	4.5	5.9	1.7	1.4	2.1	3.7
Providence—Warwick—Pawtucket	3.5	2.5	2.5	1.6	.8	.6	4.6	5.7	1.6	1.4	2.2	3.6
SOUTH CAROLINA	2.4	1.7	1.7	1.2	.4	.3	2.9	2.5	1.3	1.0	.8	.8
Charleston—North Charleston	2.4	3.0	2.3	2.1	.1	.6	3.9	4.1	1.2	1.7	1.7	1.4
Columbia	1.6	1.7	1.4	1.4	.2	.2	6.9	3.8	1.8	1.0	4.4	2.4
Greenville—Spartanburg	2.6	1.8	2.0	1.4	.4	.2	3.1	2.5	1.6	1.3	.7	.6
SOUTH DAKOTA	2.0	1.0	1.0	.5	.9	.4	2.5	2.7	1.0	1.1	1.2	1.4
Sioux Falls	3.0	1.3	1.4	.7	1.7	.5	2.0	2.3	.8	.6	.9	1.6
TENNESSEE:												
Memphis	2.0	1.4	1.3	.8	.6	.4	3.3	1.9	.7	.7	1.6	.7
TEXAS:												
Dallas—Fort Worth	3.1	2.4	2.8	2.0	.2	.2	3.0	3.3	2.1	2.0	.3	.6
Houston	2.9	2.4	2.8	2.2	.1	.1	2.9	3.0	1.9	1.9	.3	.3
San Antonio	3.5	2.3	3.1	1.9	.3	.3	3.3	3.2	1.9	1.8	.4	.5
UTAH ⁴	3.0	2.5	2.6	2.1	.4	.3	3.8	3.4	1.9	1.4	1.2	1.4
Salt Lake City—Ogden ⁴	2.7	2.5	2.5	2.2	.2	.2	3.5	2.8	1.7	1.4	.9	.8
VERMONT	2.3	1.9	1.8	1.3	.4	.4	2.5	2.9	1.0	.8	1.0	1.7
Burlington	2.2	1.4	1.8	1.2	.1	(1)	1.1	1.2	.6	.6	.3	.4
Springfield	3.2	2.3	2.7	1.3	.4	.9	3.1	2.2	1.4	.9	.9	.6
VIRGINIA	2.6	2.2	1.6	1.2	.9	.8	2.9	2.6	1.0	.8	1.3	1.1
Richmond .....	.9	1.2	.8	.6	.1	.1	1.2	1.5	.5	.4	.3	.4
WASHINGTON:												
Seattle—Everett ¹³	1.7	1.2	1.2	.7	.3	.4	2.0	2.1	.8	.6	.8	1.2
WEST VIRGINIA	2.5	1.7	1.4	.6	1.0	1.0	1.7	4.7	.8	.4	.6	2.9
WISCONSIN	2.3	1.8	.7	.6	1.3	.8	2.4	2.8	.5	.4	1.9	1.9
Milwaukee	1.9	1.6	.7	.6	.8	.7	2.1	2.0	.4	.3	1.2	1.0
WYOMING	5.3	3.6	4.7	2.8	.6	.8	6.4	3.8	3.4	2.5	2.2	.8

¹ Less than 0.05.

² Excludes agricultural chemicals, and miscellaneous manufacturing.

³ Excludes canned fruits, vegetables, preserves, jams, and jellies.

⁴ Excludes canning and preserving, and sugar.

⁵ Excludes canning and preserving.

⁶ Excludes canning and preserving, and newspapers.

⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

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 Excludes new-hire rates for transportation equipment.

¹² Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

¹³ Excludes canning and preserving, printing and publishing.

^P preliminary.

* Not available.

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

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
ALABAMA	1,605.1	1,637.1	1,633.4	126.4	139.9	151.3	7.9	8.5	9.3
Birmingham	373.4	380.3	378.9	25.9	35.5	35.4	6.9	9.3	9.3
Huntsville	133.6	137.1	137.0	10.4	12.3	14.0	7.8	9.0	10.2
Mobile	178.3	183.6	182.3	13.3	13.1	14.2	7.5	7.1	7.8
Montgomery	118.8	118.9	119.7	7.1	8.9	9.8	6.0	7.5	8.2
Tuscaloosa	51.9	53.2	52.9	3.9	4.3	4.7	7.4	8.0	8.9
ALASKA	167.6	182.0	177.1	16.7	18.1	19.5	10.0	9.9	11.0
ARIZONA	1,092.6	1,149.3	1,131.0	64.8	75.4	71.3	5.9	6.6	6.3
Phoenix	667.4	699.9	689.0	35.0	40.2	37.7	5.2	5.7	5.5
Tucson	198.1	211.3	207.3	9.7	12.0	10.8	4.9	5.7	5.2
ARKANSAS	925.1	948.4	933.1	69.7	74.7	80.8	7.5	7.9	8.7
Fayetteville-Springdale	73.5	76.7	75.3	4.3	3.8	4.4	5.9	4.9	5.9
Fort Smith ¹	83.0	81.8	82.7	7.1	6.6	7.6	8.5	8.0	9.2
Little Rock—North Little Rock	181.4	186.2	182.5	8.7	11.0	9.6	4.8	5.9	5.2
Pine Bluff	37.8	38.7	38.2	2.3	2.9	3.3	6.1	7.5	8.7
CALIFORNIA ²	11,082.0	11,243.0	11,313.9	714.0	701.0	893.2	6.5	6.2	7.9
Anaheim—Santa Ana—Garden Grove	1,079.5	1,117.8	1,126.7	45.1	40.5	57.1	4.2	3.6	5.1
Bakersfield	174.3	182.5	185.5	13.8	13.7	18.1	7.9	7.5	9.8
Fresno	252.3	261.1	267.1	22.2	23.9	32.5	8.8	9.2	12.2
Los Angeles—Long Beach ²	3,608.0	3,565.0	3,520.0	214.0	217.0	221.0	5.9	6.1	6.3
Modesto	118.9	122.6	126.9	14.4	15.8	21.0	12.1	12.8	16.5
Oxnard—Simi Valley—Ventura	227.8	234.1	237.0	16.2	15.4	20.0	7.1	6.6	8.4
Riverside—San Bernardino—Ontario	575.1	584.0	596.8	36.6	39.5	53.4	6.4	6.8	8.9
Sacramento	459.5	472.2	481.8	33.8	33.4	49.4	7.4	7.1	10.3
Salinas—Seaside—Monterey	120.7	128.8	129.0	13.7	13.2	18.9	11.3	10.2	14.7
San Diego	752.7	767.4	780.9	45.0	42.7	60.3	6.0	5.6	7.7
San Francisco—Oakland	1,606.1	1,635.4	1,656.5	84.9	79.7	109.9	5.3	4.9	6.6
San Jose	728.6	758.4	765.0	39.2	36.3	49.2	5.4	4.8	6.4
Santa Barbara—Santa Maria—Lompoc	144.1	148.1	149.6	8.6	7.7	10.5	5.9	5.2	7.0
Santa Rosa	129.2	133.1	136.9	9.4	8.9	13.2	7.3	6.7	9.7
Stockton	149.8	157.7	158.4	17.3	17.2	23.0	11.6	10.9	14.5
Vallejo—Fairfield—Napa	123.4	127.7	129.0	9.1	8.5	12.1	7.4	6.7	9.4
COLORADO	1,403.5	1,480.0	1,457.1	76.3	84.0	93.8	5.4	5.7	6.4
Denver—Boulder	836.3	881.6	867.3	41.6	45.7	50.1	5.0	5.2	5.8
CONNECTICUT	1,596.9	1,627.1	1,599.6	97.3	94.0	112.9	6.1	5.8	7.1
Bridgeport	196.8	201.0	197.0	12.7	11.0	14.2	6.5	5.5	7.2
Hartford	380.3	394.9	388.6	19.2	21.3	24.2	5.1	5.4	6.2
New Britain	77.7	78.3	77.5	4.5	4.4	5.8	5.8	5.6	7.5
New Haven—West Haven	206.4	208.9	204.0	12.9	13.0	15.1	6.2	6.2	7.4
Stamford	119.1	122.3	119.3	4.9	4.9	5.6	4.1	4.0	4.7
Waterbury	112.2	109.4	108.8	10.1	8.0	10.5	9.0	7.3	9.6
DELAWARE	272.1	281.0	277.4	26.1	20.7	26.6	9.6	7.4	9.6
Wilmington ¹	246.8	251.7	247.6	23.6	17.7	21.0	9.5	7.0	8.5
DISTRICT OF COLUMBIA	310.9	316.9	306.2	21.5	21.0	24.9	6.9	6.6	8.1
Washington SMSA ¹	N.A.	1,643.8	N.A.	N.A.	65.6	N.A.	N.A.	4.0	N.A.
FLORIDA ²	3,765.0	3,980.0	3,883.0	213.0	199.0	246.9	5.7	5.0	6.4
Bradenton	55.0	58.4	56.0	2.6	2.6	3.1	4.7	4.4	5.6
Daytona Beach	88.2	94.6	92.4	5.3	4.9	6.1	6.0	5.2	6.6
Fort Lauderdale—Hollywood	406.9	427.8	414.3	20.0	16.0	19.6	4.9	3.7	4.7
Fort Myers—Cape Coral	77.5	79.8	77.9	4.1	3.7	5.1	5.3	4.6	6.5
Gainesville	66.9	68.0	66.9	2.8	2.5	3.0	4.2	3.6	4.6
Jacksonville	284.5	301.3	293.0	15.7	13.9	17.9	5.5	4.6	6.1
Lakeland—Winter Haven	122.9	129.0	128.6	8.7	9.1	11.9	7.0	7.0	9.3
Melbourne—Titusville—Cocoa	100.4	108.1	104.1	6.5	6.7	8.1	6.5	6.2	7.8
Miami	690.7	731.8	708.6	38.0	38.9	45.8	5.5	5.3	6.5
Orlando	300.2	321.4	313.6	15.9	15.8	19.1	5.3	4.9	6.1
Panama City	34.1	36.5	35.8	3.7	3.1	4.0	10.8	8.4	11.3
Pensacola	102.2	108.9	105.7	5.9	5.3	5.8	5.8	4.8	5.5
Sarasota	67.7	70.4	68.9	3.3	2.6	3.2	4.8	3.7	4.6
Tallahassee	72.6	77.0	74.6	3.2	2.4	3.1	4.3	3.1	4.1
Tampa—St. Petersburg	581.1	611.7	597.8	32.0	28.4	35.2	5.5	4.6	5.9
West Palm Beach—Boca Raton	222.7	242.5	236.4	11.6	11.4	13.1	5.2	4.7	5.5

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
GEORGIA	2,321.2	2,387.6	2,378.6	132.8	141.9	152.4	5.7	5.9	6.4
Albany	47.9	49.4	49.5	3.1	3.8	4.1	6.6	7.7	8.3
Atlanta	944.8	977.1	968.2	49.7	49.7	52.4	5.3	5.1	5.4
Augusta	120.8	124.3	123.0	7.0	8.4	8.6	5.8	6.8	7.0
Columbus ¹	82.5	81.9	81.7	6.0	5.7	6.0	7.3	7.0	7.3
Macon	96.3	98.0	98.3	5.1	5.7	6.1	5.3	5.9	6.2
Savannah	85.9	88.1	87.8	5.0	5.5	5.5	5.8	6.2	6.3
HAWAII	396.2	401.5	400.0	23.0	19.2	21.0	5.8	4.8	5.2
Honolulu	310.7	314.5	312.9	16.8	14.0	15.3	5.4	4.5	4.9
IDAHO	411.2	413.2	406.8	35.5	32.5	37.1	8.6	7.9	9.1
Boise City	N.A.	N.A.	89.7	N.A.	N.A.	6.6	N.A.	N.A.	7.3
ILLINOIS²	5,418.0	5,517.0	5,427.5	424.0	505.0	539.0	7.8	9.2	9.9
Bloomington—Normal	60.7	60.5	58.4	3.7	4.4	4.8	6.2	7.2	8.2
Champaign—Urbana—Rantoul	82.1	84.7	82.9	4.8	5.1	5.7	5.8	6.0	6.9
Chicago	3,402.8	3,475.1	3,427.6	241.1	296.8	314.6	7.1	8.5	9.2
Davenport—Rock Island—Moline ¹	184.0	185.6	184.3	10.7	14.1	15.6	5.8	7.6	8.5
Decatur	59.2	61.7	60.3	6.6	7.3	7.9	11.2	11.9	13.1
Kankakee	41.7	41.5	41.2	4.8	5.2	5.6	11.6	12.6	13.5
Peoria	173.5	173.9	171.6	14.3	16.6	18.6	8.2	9.5	10.8
Rockford	137.5	135.6	130.8	11.6	20.1	16.7	8.4	14.8	12.7
Springfield	96.3	97.3	95.8	8.3	7.1	8.0	8.6	7.3	8.4
INDIANA	2,583.9	2,599.2	2,561.7	222.9	235.9	242.6	8.6	9.1	9.5
Anderson	N.A.	N.A.	55.6	N.A.	N.A.	6.4	N.A.	N.A.	11.5
Elkhart	N.A.	N.A.	65.9	N.A.	N.A.	6.9	N.A.	N.A.	10.5
Evansville ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Fort Wayne	N.A.	N.A.	190.3	N.A.	N.A.	19.5	N.A.	N.A.	10.3
Gary—Hammond—East Chicago	N.A.	N.A.	290.8	N.A.	N.A.	30.1	N.A.	N.A.	10.3
Indianapolis	N.A.	N.A.	596.6	N.A.	N.A.	44.8	N.A.	N.A.	7.5
Lafayette—West Lafayette	N.A.	N.A.	62.4	N.A.	N.A.	4.0	N.A.	N.A.	6.3
Muncie	N.A.	N.A.	56.6	N.A.	N.A.	5.7	N.A.	N.A.	10.1
South Bend	N.A.	N.A.	136.6	N.A.	N.A.	13.2	N.A.	N.A.	9.6
Terre Haute	N.A.	N.A.	79.7	N.A.	N.A.	7.0	N.A.	N.A.	8.7
IOWA	1,387.7	1,399.4	1,381.4	76.2	80.3	94.2	5.5	5.7	6.8
Cedar Rapids	89.3	88.6	87.8	4.1	5.7	6.4	4.6	6.5	7.3
Des Moines	183.5	183.6	183.4	9.4	10.1	10.7	5.1	5.5	5.8
Dubuque	46.4	45.3	45.0	3.8	4.1	5.1	8.1	9.1	11.3
Sioux City ¹	53.1	53.6	53.2	3.6	3.3	3.8	6.8	6.1	7.1
Waterloo—Cedar Falls	68.9	68.9	68.3	3.1	4.0	4.7	4.5	5.8	6.9
KANSAS	1,176.9	1,190.2	1,167.6	47.7	52.3	56.2	4.1	4.4	4.8
Lawrence	35.4	36.0	35.3	1.6	1.7	1.8	4.5	4.8	5.1
Topeka	95.9	95.7	94.8	4.9	5.5	5.8	5.1	5.7	6.2
Wichita	226.1	228.5	226.1	7.4	8.8	9.5	3.3	3.9	4.2
KENTUCKY	1,557.3	1,609.0	N.A.	122.5	121.8	N.A.	7.9	7.6	N.A.
Lexington—Fayette	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Louisville ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Owensboro	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
LOUISIANA	1,669.2	1,747.1	1,744.6	117.4	118.3	127.6	7.0	6.8	7.3
Alexandria	65.8	68.6	68.6	5.9	6.5	6.9	8.9	9.5	10.0
Baton Rouge	215.3	223.2	224.3	17.4	15.5	16.5	8.1	7.0	7.4
Lafayette	74.1	81.8	82.1	3.3	2.8	3.1	4.5	3.4	3.8
Lake Charles	72.0	73.8	72.9	4.4	4.9	5.1	6.1	6.6	7.0
Monroe	52.4	54.4	54.3	4.4	4.4	4.9	8.4	8.1	8.9
New Orleans	469.0	479.9	481.3	27.2	29.2	31.3	5.8	6.1	6.5
Shreveport	151.7	155.6	155.3	9.3	10.8	11.2	6.2	6.9	7.2
MAINE	482.0	498.2	484.6	42.6	39.4	46.3	8.8	7.9	9.6
Lewiston—Auburn	39.0	39.8	39.0	3.4	3.7	4.4	8.8	9.3	11.3
Portland	87.3	92.1	89.3	5.5	5.5	6.1	6.3	6.0	6.9
MARYLAND	2,087.1	2,144.0	2,113.4	141.5	132.4	156.3	6.8	6.2	7.4
Baltimore	1,044.1	1,067.9	1,054.4	77.8	75.3	86.7	7.5	7.1	8.2

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		
	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
MASSACHUSETTS²	2,825.0	2,954.0	2,911.1	184.0	129.0	187.5	6.5	4.4	6.4
Boston	N.A.	N.A.	1,427.5	N.A.	N.A.	77.3	N.A.	N.A.	5.4
Brockton	N.A.	N.A.	80.7	N.A.	N.A.	6.5	N.A.	N.A.	8.1
Fall River ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Lawrence—Haverhill ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Lowell	N.A.	N.A.	122.3	N.A.	N.A.	7.9	N.A.	N.A.	6.5
New Bedford	N.A.	N.A.	82.5	N.A.	N.A.	8.1	N.A.	N.A.	9.9
Springfield—Chicopee—Holyoke	N.A.	N.A.	271.7	N.A.	N.A.	18.2	N.A.	N.A.	6.7
Worcester	N.A.	N.A.	197.5	N.A.	N.A.	11.2	N.A.	N.A.	5.7
MICHIGAN²	4,275.0	4,296.0	4,267.3	468.0	533.0	585.2	11.0	12.4	13.7
Ann Arbor	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Battle Creek	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Bay City	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Detroit	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Flint	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Grand Rapids	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Jackson	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Kalamazoo—Portage	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Lansing—East Lansing	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Muskegon—Norton Shores—Muskegon Heights	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Saginaw	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
MINNESOTA	2,043.5	2,086.9	2,085.6	117.3	129.6	147.4	5.7	6.2	7.1
Duluth—Superior ¹	115.3	115.5	115.2	8.8	10.7	12.3	7.7	9.3	10.7
Minneapolis—St. Paul	1,103.5	1,126.8	1,128.5	46.6	53.8	58.8	4.2	4.8	5.2
Rochester	53.1	54.7	54.8	2.5	2.8	3.0	4.7	5.0	5.4
St. Cloud	69.8	73.8	72.9	5.7	6.2	6.9	8.2	8.4	9.5
MISSISSIPPI	982.9	1,015.0	1,000.8	66.3	75.5	86.5	6.7	7.4	8.6
Jackson	147.0	153.9	150.1	6.4	7.7	8.8	4.3	5.0	5.9
MISSOURI	2,238.1	2,272.2	2,239.0	140.1	154.5	175.7	6.3	6.8	7.8
Kansas City ¹	677.2	680.4	668.1	34.6	40.7	44.6	5.1	6.0	6.7
St. Joseph	43.5	46.1	44.0	3.2	3.4	3.8	7.2	7.4	8.6
St. Louis ¹	1,078.2	1,082.6	1,072.4	79.3	83.9	94.8	7.4	7.7	8.8
Springfield	102.4	104.0	101.5	5.1	6.1	6.4	5.0	5.8	6.3
MONTANA	354.8	364.8	353.9	24.9	22.6	26.4	7.0	6.2	7.5
Billings	54.9	57.3	56.0	2.9	2.6	3.1	5.3	4.5	5.5
Great Falls	33.0	33.9	33.5	2.5	2.5	2.7	7.7	7.3	8.1
NEBRASKA	747.8	765.3	754.1	30.1	34.4	38.3	4.0	4.5	5.1
Lincoln	108.1	111.4	110.7	3.7	4.5	5.2	3.5	4.1	4.7
Omaha ¹	278.7	279.7	277.2	14.6	15.8	17.7	5.2	5.7	6.4
NEVADA	361.2	381.3	378.5	21.4	26.7	28.6	5.9	7.0	7.5
Las Vegas	201.9	210.8	209.7	12.3	17.8	17.7	6.1	8.4	8.4
Reno	103.3	108.5	106.6	5.5	5.2	6.4	5.3	4.8	6.0
NEW HAMPSHIRE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Manchester	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Nashua	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NEW JERSEY	3,594.0	3,585.0	3,572.7	270.0	268.0	284.0	7.5	7.5	8.0
Atlantic City	99.9	110.1	110.5	11.1	8.4	9.4	11.1	7.6	8.5
Jersey City	251.4	242.9	243.5	27.1	26.5	29.0	10.8	10.9	11.9
Long Branch—Asbury Park	230.5	231.0	230.3	19.7	16.9	18.0	8.5	7.3	7.8
New Brunswick—Perth Amboy—Sayreville	329.8	329.5	326.5	20.5	20.1	20.3	6.2	6.1	6.2
Newark	984.4	976.9	977.1	68.4	70.7	73.9	6.9	7.2	7.6
Paterson—Clifton—Passaic	217.8	209.6	210.1	20.2	18.2	20.4	9.3	8.7	9.7
Trenton	164.7	161.6	163.0	11.1	8.8	10.3	6.8	5.5	6.3
Vineland—Millville—Bridgeton	59.9	58.9	60.1	6.8	7.5	8.3	11.4	12.8	13.9
NEW MEXICO	526.9	537.9	533.1	39.1	40.8	44.7	7.4	7.6	8.4
Albuquerque	200.0	199.9	199.5	14.7	15.9	17.0	7.3	7.9	8.5

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		
	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
NEW YORK²	8,069.0	7,940.0	8,000.7	676.0	556.0	666.8	8.4	7.0	8.3
Albany—Schenectady—Troy	388.2	380.1	384.0	26.6	22.2	27.2	6.9	5.8	7.1
Binghamton ¹	N.A.	N.A.	142.6	N.A.	N.A.	10.6	N.A.	N.A.	7.5
Buffalo	595.1	575.9	585.1	64.4	49.8	62.9	10.8	8.6	10.7
Elmira	41.1	39.7	41.3	3.6	2.9	3.7	8.7	7.3	8.9
Nassau-Suffolk	1,338.5	1,326.1	1,342.0	92.8	73.3	91.1	6.9	5.5	6.8
New York	3,615.3	3,545.7	3,566.0	312.4	254.3	296.0	8.6	7.2	8.3
New York City ²	2,994.0	2,922.0	2,940.0	279.0	227.0	260.0	9.3	7.7	8.8
Poughkeepsie	109.5	108.9	108.9	6.5	6.2	7.1	6.0	5.7	6.5
Rochester	481.7	476.6	479.6	33.2	26.8	32.6	6.9	5.6	6.8
Syracuse	309.4	305.4	306.9	24.3	21.4	26.2	7.9	7.0	8.6
Utica—Rome	139.5	136.7	139.2	11.3	11.1	12.7	8.1	8.1	9.1
NORTH CAROLINA	2,675.7	2,732.6	2,698.3	168.5	176.0	195.9	6.3	6.4	7.3
Asheville	80.0	81.5	80.9	4.3	5.3	6.2	5.4	6.5	7.6
Charlotte—Gastonia	341.7	346.6	344.3	15.2	15.4	17.4	4.5	4.4	5.0
Greensboro—Winston-Salem—High Point	410.6	415.4	412.4	24.0	23.2	25.3	5.8	5.6	6.1
Raleigh—Durham	285.2	290.2	284.6	13.1	12.1	12.3	4.6	4.2	4.3
NORTH DAKOTA	281.8	291.0	289.3	16.9	15.3	19.4	6.0	5.3	6.7
Fargo—Moorehead ¹	68.6	70.3	70.3	3.7	4.0	5.1	5.4	5.7	7.2
OHIO²	4,994.0	5,004.0	4,970.1	359.0	430.0	517.1	7.2	8.6	10.4
Akron	N.A.	N.A.	293.4	N.A.	N.A.	30.6	N.A.	N.A.	10.4
Canton	N.A.	N.A.	180.5	N.A.	N.A.	18.7	N.A.	N.A.	10.4
Cincinnati ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Cleveland	N.A.	N.A.	912.7	N.A.	N.A.	77.8	N.A.	N.A.	8.5
Columbus	N.A.	N.A.	550.9	N.A.	N.A.	42.2	N.A.	N.A.	7.7
Dayton	N.A.	N.A.	378.9	N.A.	N.A.	32.0	N.A.	N.A.	8.4
Toledo ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Youngstown—Warren	N.A.	N.A.	231.5	N.A.	N.A.	35.6	N.A.	N.A.	15.4
OKLAHOMA	1,286.5	1,330.0	1,347.8	54.0	57.7	74.8	4.2	4.3	5.6
Oklahoma City	391.1	409.4	414.5	14.8	16.3	20.8	3.8	4.0	5.0
Tulsa	317.2	327.0	332.9	13.3	12.6	17.3	4.2	3.8	5.2
OREGON	1,237.1	1,248.2	1,266.0	107.4	107.9	126.6	8.7	8.6	10.0
Eugene—Springfield	130.9	130.9	133.5	13.0	13.1	15.2	9.9	10.0	11.4
Portland ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Salem	115.1	116.4	116.4	10.7	9.8	11.5	9.3	8.4	9.9
PENNSYLVANIA²	5,325.0	5,341.0	5,366.2	404.0	403.0	489.8	7.6	7.5	9.1
Allentown—Bethlehem—Easton ¹	N.A.	N.A.	309.5	N.A.	N.A.	31.8	N.A.	N.A.	10.3
Altoona	N.A.	N.A.	60.2	N.A.	N.A.	8.8	N.A.	N.A.	14.7
Erie	N.A.	N.A.	126.6	N.A.	N.A.	13.0	N.A.	N.A.	10.3
Harrisburg	N.A.	N.A.	220.9	N.A.	N.A.	15.3	N.A.	N.A.	6.9
Johnstown	N.A.	N.A.	110.8	N.A.	N.A.	16.2	N.A.	N.A.	14.6
Lancaster	N.A.	N.A.	175.5	N.A.	N.A.	11.6	N.A.	N.A.	6.6
Northeast Pennsylvania	N.A.	N.A.	290.7	N.A.	N.A.	35.1	N.A.	N.A.	12.1
Philadelphia ¹	N.A.	N.A.	2,129.3	N.A.	N.A.	156.6	N.A.	N.A.	7.4
Pittsburgh	N.A.	N.A.	1,016.6	N.A.	N.A.	83.1	N.A.	N.A.	8.2
Reading	N.A.	N.A.	157.8	N.A.	N.A.	13.8	N.A.	N.A.	8.7
Williamsport	N.A.	N.A.	53.1	N.A.	N.A.	6.9	N.A.	N.A.	12.9
York	N.A.	N.A.	177.2	N.A.	N.A.	15.9	N.A.	N.A.	9.0
RHODE ISLAND	449.5	463.6	459.5	34.3	29.6	37.1	7.6	6.4	8.1
Providence—Warwick—Pawtucket ¹	N.A.	N.A.	456.7	N.A.	N.A.	36.4	N.A.	N.A.	8.0
SOUTH CAROLINA	1,276.1	1,305.7	1,304.6	73.7	96.8	104.3	5.8	7.4	8.0
Charleston—North Charleston	152.7	157.1	157.0	8.6	10.9	11.5	5.6	6.9	7.3
Columbia	169.8	175.9	175.0	7.0	8.8	9.4	4.1	5.0	5.4
Greenville—Spartanburg	256.8	263.1	263.2	11.6	16.3	17.6	4.5	6.2	6.7
SOUTH DAKOTA	321.3	325.5	320.9	17.6	16.9	20.9	5.5	5.2	6.5
Rapid City	41.2	39.9	39.5	2.5	2.4	2.8	6.1	6.1	7.2
Sioux Falls	62.4	63.2	62.3	3.2	3.0	3.6	5.1	4.8	5.8
TENNESSEE	1,970.0	2,004.5	1,980.1	141.1	147.1	172.7	7.2	7.3	8.7
Chattanooga ¹	186.9	188.6	186.4	11.4	13.3	15.0	6.1	7.0	8.0
Knoxville	208.0	214.5	213.0	12.6	12.7	14.5	6.1	5.9	6.8
Memphis ¹	382.6	390.1	382.3	23.1	25.2	26.5	6.0	6.5	6.9
Nashville—Davidson	402.5	409.6	404.7	21.8	22.6	26.5	5.4	5.5	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		
	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P	JAN. 1980	DEC. 1980	JAN. 1981P
TEXAS¹	6,333.0	6,458.0	6,566.5	344.0	308.0	369.7	5.4	4.8	5.6
Amarillo.....	N.A.	N.A.	86.7	N.A.	N.A.	3.7	N.A.	N.A.	4.3
Austin.....	N.A.	N.A.	256.5	N.A.	N.A.	9.6	N.A.	N.A.	3.7
Beaumont—Port Arthur—Orange.....	N.A.	N.A.	170.5	N.A.	N.A.	11.8	N.A.	N.A.	6.9
Corpus Christi.....	N.A.	N.A.	141.2	N.A.	N.A.	8.7	N.A.	N.A.	6.2
Dallas—Fort Worth.....	N.A.	N.A.	1,571.2	N.A.	N.A.	77.1	N.A.	N.A.	4.9
El Paso.....	N.A.	N.A.	178.7	N.A.	N.A.	18.4	N.A.	N.A.	10.3
Galveston—Texas City.....	N.A.	N.A.	84.7	N.A.	N.A.	6.6	N.A.	N.A.	7.8
Houston.....	N.A.	N.A.	1,520.1	N.A.	N.A.	64.2	N.A.	N.A.	4.2
Lubbock.....	N.A.	N.A.	101.0	N.A.	N.A.	4.8	N.A.	N.A.	4.8
San Antonio.....	N.A.	N.A.	430.6	N.A.	N.A.	25.4	N.A.	N.A.	5.9
Waco.....	N.A.	N.A.	81.7	N.A.	N.A.	4.4	N.A.	N.A.	5.4
Wichita Falls.....	N.A.	N.A.	62.5	N.A.	N.A.	3.4	N.A.	N.A.	5.5
UTAH	582.1	613.2	598.3	34.2	39.6	46.8	5.9	6.5	7.8
Salt Lake City—Ogden.....	384.9	405.2	395.9	20.9	25.5	29.9	5.4	6.3	7.6
VERMONT	242.6	248.9	248.6	14.9	15.5	18.0	6.1	6.2	7.3
VIRGINIA	2,480.0	2,541.0	N.A.	136.9	127.4	N.A.	5.5	5.0	N.A.
Lynchburg.....	N.A.	76.8	N.A.	N.A.	3.5	N.A.	N.A.	4.6	N.A.
Newport News—Hampton.....	N.A.	168.9	N.A.	N.A.	8.8	N.A.	N.A.	5.2	N.A.
Norfolk—Virginia Beach—Portsmouth ¹	N.A.	328.3	N.A.	N.A.	18.7	N.A.	N.A.	5.7	N.A.
Petersburg—Colonial Heights—Hopewell.....	N.A.	61.1	N.A.	N.A.	3.8	N.A.	N.A.	6.2	N.A.
Richmond.....	N.A.	333.9	N.A.	N.A.	11.4	N.A.	N.A.	3.4	N.A.
Roanoke.....	N.A.	111.8	N.A.	N.A.	5.0	N.A.	N.A.	4.5	N.A.
WASHINGTON	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Seattle—Everett.....	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Spokane.....	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Tacoma.....	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
WEST VIRGINIA	755.0	773.7	772.4	75.8	75.9	96.4	10.0	9.8	12.5
Charleston.....	N.A.	N.A.	129.2	N.A.	N.A.	13.8	N.A.	N.A.	10.7
Huntington—Ashland ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Parkersburg—Marietta ¹	N.A.	N.A.	71.2	N.A.	N.A.	7.9	N.A.	N.A.	11.1
Wheeling ¹	N.A.	N.A.	81.6	N.A.	N.A.	9.7	N.A.	N.A.	11.9
WISCONSIN	2,344.3	2,394.9	2,345.2	147.0	168.9	202.7	6.3	7.1	8.6
Appleton—Oshkosh.....	146.9	150.0	144.7	8.5	11.5	13.2	5.8	7.6	9.1
Eau Claire.....	54.7	58.3	56.1	4.7	3.8	4.8	8.6	6.6	8.6
Green Bay.....	86.5	89.4	88.0	5.8	6.2	7.8	6.7	7.0	8.8
Janeville—Beloit.....	69.6	70.2	68.4	8.7	4.9	5.8	12.5	6.9	8.6
Kenosha.....	61.6	59.6	58.3	3.0	5.2	6.1	4.8	8.8	10.4
La Crosse.....	46.1	49.7	47.4	2.5	3.2	3.9	5.4	6.5	8.2
Madison.....	175.1	185.2	178.2	7.8	8.6	10.4	4.5	4.6	5.8
Milwaukee.....	721.8	736.1	716.0	35.1	47.0	53.3	4.9	6.4	7.4
Racine.....	88.1	87.6	86.0	4.6	7.5	8.4	5.2	8.6	9.7
WYOMING	213.8	239.3	222.1	8.7	9.8	11.6	4.1	4.1	5.2

¹ Includes interstate portion of area located in adjacent State.

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

becomes available. Data refer to place of residence.

p = preliminary.

N.A. = not available.

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

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

Note: The 1980 estimates in this release reflect revisions based on preliminary annual average "benchmarks" from the Current Population Survey and incorporate other yearly adjustments to the basic input data used to calculate State and area labor force estimates. Final benchmarked estimates will be published later this month through the National Technical Information Service of the U.S. Department of Commerce in "State, County and Selected City, Employment and Unemployment, January-December 1980" (PB81-914413) and "CETA Area Employment and Unemployment, January-December 1980" (PB81-914313).

Explanatory Notes

Introduction

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

Data based on household interviews are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 65,000 households, representing 629 areas in 1,133 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

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

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

Employment

Coverage. The household survey definition of employment comprises wage and salary workers (including domestics and other private household workers), self-employed persons, and unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises. Employment in both agricultural and nonagricultural in-

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

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

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

For a comprehensive discussion of the differences between household and establishment survey employment data, see Gloria P. Green's article "Comparing Employment Estimates from Household and Payroll Surveys," *Monthly Labor Review*, December 1969. 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, production or nonsupervisory employees on paid vacation, paid holiday, or paid sick leave are included and assigned the number of hours for which they were paid during the reporting period.

Earnings

The household survey measures median earnings of wage and salary workers in all occupations and industries in both the private and public sectors. Data refer to the usual earnings received from the worker's sole or primary job. Data from the establishment survey generally refer to mean earnings of production and related workers in mining and manufacturing, construction workers in construction, and nonsupervisory employees in private service-producing industries. For a comprehensive discussion of the household survey earnings series, see "Technical Description of the Quarterly Data on Weekly Earnings from the Current Population Survey," BLS Report 601.

COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

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

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

For an examination of the similarities and differences between State insured unemployment and total unemployment, see "Measuring Total and State Insured Unemployment" by Gloria P. Green in the June 1971 issue of the *Monthly Labor Review*. 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 Census from its censuses or annual sample surveys of manufacturing establishments and the censuses of business establishments. The major reasons for some noncomparability are different treatment of business units considered parts of an establishment, such as central administrative offices and auxiliary units, the industrial classification of establishments, and different reporting patterns by multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes professional services, public utilities, and financial establishments, whereas these are included in the BLS statistics.

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

Employment covered by State unemployment insurance programs. Most nonagricultural wage and salary workers are covered by the unemployment insurance programs. Beginning in January 1972, coverage was expanded to include employees of small firms and selected nonprofit activities who had not been covered previously. However, certain activities, such as interstate railroads, parochial schools, and churches are not covered by unemployment insurance whereas these are included in the BLS establishment statistics. Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

Household Data (A tables)

COLLECTION AND COVERAGE

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

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

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

Each month, 65,000 occupied units are eligible for interview. About 2,800 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 or 5 percent. In addition to the 65,000 occupied units, there are 12,000 sample units in an average month which are visited but found to be vacant or otherwise not to be enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from 1 month to the next and one-half to be common with the same month a year earlier.

Beginning in September 1975, the sample was enlarged by 9,000 households in order to provide greater reliability for smaller States

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

Over the period November 1978 to April 1979 the sample was again enlarged by 9,000 households. This was done to permit the publication of reliable quarterly estimates for the 50 States and the District of Columbia. These supplementary households were added to the 56,000 household sample in January 1980.

CONCEPTS

Employed persons comprise (a) all those who during the survey week did any work at all as paid employees, in their own business, profession, or farm, or who worked 15 hours or more as unpaid workers in an enterprise operated by a member of the family, and (b) all those who were not working but who had jobs or businesses from which they were temporarily absent because of illness, bad weather, vacation, labor-management dispute, or personal reasons, whether or not they were paid by their employers for the time off, and whether or not they were seeking other jobs.

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

Included in the total are employed citizens of foreign countries, temporarily in the United States, who are not living on the premises of an embassy.

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

Unemployed persons comprise all persons who did not work during the survey week, who made specific efforts to find a job within the past 4 weeks, and who were available for work during the survey week (except for temporary illness). Also included as unemployed are those who did not work at all, were available for work, and (a) were waiting to be called back to a job from which they had been laid off; or (b) were waiting to report to a new wage or salary job within 30 days.

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

Unemployed persons by reasons for unemployment are divided into four major groups. (1) Job losers are persons whose employment ended involuntarily who immediately began looking for work and persons on layoff. (2) Job leavers are persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work. (3) Reentrants are persons who previously worked at a full-time job lasting 2 weeks or longer but were out of the labor force prior to beginning to look for work. (4) New entrants are persons who never worked at a full-time job lasting 2 weeks or longer.

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

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

The unemployment rate represents the number unemployed as a percent of the civilian labor force. This measure can also be computed for groups within the labor force classified by sex, age, marital status, race, occupation, industry, etc. The job-loser, job-leaver, reentrant, and new entrant rates are each calculated as a percent of the civilian labor force; the sum of the rates for the four groups thus equals the total unemployment rate.

Participation rates represent the proportion of the noninstitutional population that is in the labor force. Two types of participation rates are published. The total labor force participation rate, which is the ratio of the total labor force and the total noninstitutional population; and the civilian labor force participation rate, which is the ratio of the civilian labor force and the civilian noninstitutional population. Participation rates are usually published for sex-age groups, often cross-classified by other demographic characteristics such as race and educational attainment.

Employment-population ratios represent the proportion of the total noninstitutional population that is employed.

Not in labor force includes all civilians 16 years and over who are not classified as employed or unemployed. These persons are further classified as "engaged in own home housework," "in school," "unable to work" because of long-term physical or mental illness, and "other." The "other" group includes for the most part retired persons, those reported as too old to work, the voluntarily idle, and seasonal workers for whom the survey week fell in an "off" season and who were not reported as unemployed. Persons doing only incidental unpaid family work (less than 15 hours) are also classified as not in the labor force.

For persons not in the labor force, data on previous work experience, intentions to seek work again, desire for a job at the time of interview, and reasons for not looking for work are compiled on a quarterly basis. As of January 1970, the detailed questions for persons not in the labor force are asked only in those households that are in the fourth and eighth months of the sample, i.e., the "outgoing" groups, those which had been in the sample for 3 previous months and would not be in for the subsequent month. Between 1967 and 1969, the detailed not-in-labor force questions were asked of persons in the first and fifth months in the sample, i.e., the "incoming" groups.

Occupation, industry, and class of worker for the employed apply to the job held in the survey week. Persons with two or more jobs are classified in the job at which they worked the greatest number of hours during the survey week. The unemployed are classified according to their last full-time civilian job lasting 2 weeks or more. The occupation and industry groups used in the CPS are defined as in the 1970 Census of Population. Information on the detailed categories included in these groups is available upon request.

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

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

For persons working in more than one job, the figures relate to the number of hours worked in all jobs during the week. However, all the hours are credited to the major job.

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

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

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.

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

Hispanic origin refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican living on the mainland, Cuban, Central or South American, or of other Hispanic origin or descent. According to the 1970 Census of population, approximately 96 percent of their population is white.

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

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

Nonveterans are males who never served in the Armed Forces.

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

committee in 1969. These thresholds vary by family size, composition, and residence (farm-nonfarm). While poverty areas have a substantial concentration of low-income residents, many poor persons live outside these areas and, conversely, the areas include many people who are not poor.

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

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

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

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

Family refers to a group of two or more persons residing together who are related by blood, marriage, or adoption; all such persons are considered as members of one family even though they may include a "subfamily," that is, a married couple or a parent-child group related by blood or marriage to the householder and sharing the living quarters. The counts of families used in this volume refer to primary families only, that is, all persons in the household who are related to the householder. Families are classified either as married-couple families or as those maintained by women or men without spouses. Data on the earnings of families exclude all those in which there is no wage or salary earner or in which the husband, wife, or other persons maintaining the family is either self-employed or in the Armed Forces.

HISTORIC COMPARABILITY

Raised lower age limit

Beginning with data for 1967, the lower age limit for official statistics on persons in the labor force was raised from 14 to 16 years. A detailed discussion of this and other definitional changes introduced at that time, including estimates of their effect on the various series is contained in "New Definitions for Employment and Unemployment" by Robert L. Stein in the February 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*. 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 in 1953, as a result of the introduction of data from the 1950 census into the estimation procedure, population levels were raised by about 600,000; labor force, total employment, and agricultural employment by about 350,000, primarily affecting the figures for totals and males; other categories were relatively unaffected; (2) beginning in 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force, four-fifths of this

in nonagricultural employment; other labor force categories were not appreciably affected; (3) beginning in 1962, the introduction of figures from the 1960 census reduced the population by about 50,000, labor force and employment by about 200,000; unemployment totals were virtually unchanged. In addition, beginning in 1972, information from the 1970 census was introduced into the estimation procedures, producing an increase in the civilian noninstitutional population of about 800,000; labor force and employment totals were raised by a little more than 300,000, and unemployment levels and rates were essentially unchanged. A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment affected the white and black and other groups but had little effect on totals. The adjustment resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black and other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black and other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

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

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

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

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

Beginning in 1979, the first-stage ratio estimation method was changed in the CPS estimation procedure. The new procedure is described in the Estimating Methods section. The reasoning behind the change and an indication of the differences appear in "Change in the Estimation Procedure for the Current Population Survey beginning in January 1979" in the February 1979 issue of *Employment and Earnings*. Differences between the old and new procedures exist only for metropolitan and nonmetropolitan estimates, not for the total U.S.

Changes in the occupational classification system

Beginning with 1971, the comparability of occupational employment data was affected as a result of changes in census occupational

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

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

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

Additional information on changes in the occupational classification system of the CPS appears in "Revisions in Occupational Classifications for 1971" and "Revisions in the Current Population Survey" in the February 1971 and February 1972 issues, respectively, of *Employment and Earnings*.

Changes in sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, occasionally the sample is expanded in terms of number of sample areas and number of sample persons. In 1953, a rotation plan was introduced in which a sample unit would be interviewed for 4 months, leave the sample for 8 months, and then return to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to the sample to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a non-contiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated with the existing design. A coverage improvement sample composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction housing units that previously had no chance for selection in the CPS sample. A recent change was introduced in January 1980, when another supplemental

sample of 9,000 households selected in 32 States and the District of Columbia to provide more reliable quarterly average estimates for States, was added to the existing sample.

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

ESTIMATING METHODS

Under the estimating methods used in the CPS, all of the results for a given month become available simultaneously and are based on returns from the entire panel of respondents. There are no subsequent adjustments to independent benchmark data on labor force, employment, or unemployment. Therefore, revisions of the historical data are not an inherent feature of this statistical program.

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

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondent for other reasons. This adjustment is made separately by combinations of sample areas within each State and the District of Columbia, and within these, for six groups—two race categories (white, and black and other) within three residence categories. For sample areas which are Standard Metropolitan Statistical Areas (SMSA's), these residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 4 to 5 percent depending on weather, vacations, etc.

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

a. *First-stage ratio estimate.* In the CPS, a portion of the 629 sample areas is chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The procedure is performed at two geographic levels: First, by the four census regions (Northeast, North Central, South, and West), and second, for each of the 46 States which contains nonsample areas. The procedure corrects for the differences that existed at the time of the 1970 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. The regional adjustment is performed by metropolitan-nonmetropolitan residence and race, while the State adjustment is done by urban-rural status and race.

b. *Second-stage ratio estimate.* In this stage, the sample proportions in the categories described below are adjusted to the distribution of independent current estimates of the population in the same categories. The second-stage ratio estimate is done in order to increase the reliability of the estimates and is done in three steps. In the first step, the sample estimates are adjusted within each State and the District of Columbia to an independent control for the population 16 years and over for the State. The second step involves "nonwhite" persons only, and is an adjustment to independent estimates of 40 age-sex-race categories across the whole Nation. (The race categories used are black and other minority races.) The third adjustment is applied to all sample persons and is a weighting to nationwide independent population estimates within 68 age-sex-race groups. The entire second-stage ratio estimation procedure is iterated six times, each time beginning at the weights developed the previous time. This iteration ensures that the sample estimates both of State population and of national age-sex-race categories, will be virtually equal to the independent population estimates.

Time period	Number of sample areas	Households eligible		Households visited not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	¹ 330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	² 333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to present	629	62,200	2,800	12,000

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

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

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

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

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

Rounding of estimates

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

Reliability of the estimates

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

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

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

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

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

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

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

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

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

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

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

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations were required. First, the standard errors in

this report reflect the sample design and estimation procedures in effect prior to the expansions for State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Second, instead of computing an individual standard error for each estimate, generalized sets of standard errors were computed for various types of characteristics. This generalization yields more stable estimates of the standard errors. Consequently, the sets of standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

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

Tables 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 for nonconsecutive months are subject to higher standard errors. Table I contains factors for use with tables C, E, G, and H to compute approximate standard errors, as described below, for levels, labor force participation rates, and percentages as pertaining to year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages and changes in yearly averages. Note that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50 and for the 1956-66 period they should be multiplied by 1.22. Table J provides generalized standard errors for quarterly estimates of persons and families for use with the CPS earnings data.

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 in a given month the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table C shows that the standard error on an estimate of 12,000,000 is about 150,000. The 68 percent confidence interval as shown by these data is from 11,850,000 to 12,150,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in the first column of table 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 are

not published when the monthly base is less than 75,000 or the annual average base is less than 35,000.

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

Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentages can be obtained through the use of the standard errors in table 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 in a given month 3.6 percent of a total of 90,771,000 employed persons are employed in agriculture. First the standard error on an estimate of 3.6 percent with a base of 90,771,000 is obtained from table G (0.09 percentage point). The appropriate factor from table H for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error

Table A. Standard errors for major employment status categories

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
<i>(In thousands)</i>		
Total, 16 years and over:		
Civilian labor force	208	161
Employed	229	175
Unemployed	122	123
Males, 20 years and over:		
Civilian labor force	113	95
Employed	131	114
Unemployed	84	85
Females, 20 years and over:		
Civilian labor force	167	124
Employed	168	128
Unemployed	71	74
Both sexes, 16-19 years:		
Civilian labor force	80	85
Employed	85	94
Unemployed	58	72
Black and other, 16 years and over:		
Civilian labor force	73	56
Employed	84	63
Unemployed	59	62
Males, 20 years and over:		
Civilian labor force	40	34
Employed	49	43
Unemployed	40	42
Females, 20 years and over:		
Civilian labor force	62	46
Employed	62	48
Unemployed	38	40
Both sexes, 16-19 years:		
Civilian labor force	33	37
Employed	31	36
Unemployed	28	30

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

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

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

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

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

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

where X is the estimate for one quarter and Y is the estimate for another quarter. The coefficient, P, is a measure of the correlation between the estimates X and Y resulting from the presence of some of the same respondents in the sample for each estimate. For consecutive year-to-year changes of quarterly estimates, the values of P are .30 for persons (total, white, and black) and .35 for families (total, white, and black). The respective values for estimates of Hispanics are .45 and .55.

Illustration:

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

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

or about 259,000.

Table B. Standard errors for unemployment rates by major characteristics

Selected categories	Standard error of—		Selected categories	Standard error of—	
	Monthly level	Consecutive month change		Monthly level	Consecutive month change
Total (all civilian workers)	0.12	0.12	OCCUPATION—Continued		
Males, 20 years and over . . . . .	.15	.15	Blue collar workers—Continued		
Females, 20 years and over . . . . .	.17	.18	Operatives, except transport . . . . .	.44	.50
Both sexes, 16-19 years . . . . .	.57	.67	Transport equipment operatives . . . . .	.70	.77
White workers . . . . .	.12	.12	Nonfarm laborers . . . . .	.71	.81
Black (and other) workers . . . . .	.46	.49	Service workers . . . . .	.32	.36
Married men, spouse present . . . . .	.15	.16	Farm workers . . . . .	.54	.62
Married women, spouse present . . . . .	.21	.23	INDUSTRY		
Full-time workers . . . . .	.12	.13	Nonagricultural private wage and salary workers . . . . .	.13	.13
Part-time workers . . . . .	.32	.40	Construction . . . . .	.59	.70
Unemployed 15 weeks and over . . . . .	.06	.07	Manufacturing . . . . .	.27	.30
OCCUPATION			Durable goods . . . . .	.37	.41
White-collar workers . . . . .	.12	.13	Nondurable goods . . . . .	.39	.45
Professional and technical . . . . .	.18	.20	Transportation and public utilities . . . . .	.38	.42
Managers and administrators, except farm . . . . .	.20	.23	Wholesale and retail trade . . . . .	.26	.29
Sales workers . . . . .	.36	.41	Finance and service industries . . . . .	.17	.19
Clerical workers . . . . .	.23	.25	Government workers . . . . .	.20	.23
Blue-collar workers . . . . .	.24	.26	Agricultural wage and salary workers	1.07	1.26
Craft and kindred workers . . . . .	.33	.37			

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

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

¹ When determining the standard error of an estimate for a group which is a subset of the age, sex, 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)

Employment monthly level	Characteristic ¹							
	Labor force data other than unemployment and agricultural employment data				Unemployment			
	Total or white	Black and other	Total, or 16-19 years white	Black and other, 16-19 years	Total or white	Both sexes 16-19 years, or part-time labor force ²	Black and other	Black and other, 16-19 years
50	8	8	12	12	11	12	12	12
100	11	11	17	17	16	17	16	17
500	24	23	37	33	35	39	36	34
1,000	34	33	52	37	48	55	49	39
2,000	47	45	70	-	68	77	65	-
4,000	66	58	89	-	93	107	80	-
6,000	81	65	96	-	110	129	-	-
8,000	93	66	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	196	-	-	-	-	-	-	-
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 for 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 .....	.08	.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 for 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 for estimated percentages and month-to-month change in percentages for labor force data

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

NOTE: The standard errors in this table must be multiplied by a specific 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 change in percentages

Characteristic	Factor		Characteristic	Factor	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Agricultural employment:			Unemployment:		
Total or full-time labor force . . .	1.26	1.05	Part-time labor force, duration of unemployment, left last job, reentering labor force	1.01	1.21
Part-time labor force	1.26	1.50	All other unemployment characteristics:		
Labor force data other than agricultural employment 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

Table I. Factors to be used with Tables, C, E, G, H to compute the approximate standard errors for levels, rates, and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages and change in yearly averages

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

Table J. Standard errors for estimates of quarterly level

(In thousands)

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

Establishment Data (B, C, and D tables)

COLLECTION

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

Federal-State cooperation

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

Shuttle schedules

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

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

CONCEPTS

Industrial classification

Establishments reporting on Form BLS 790 and Form DL 1219 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. Since January 1980, this information is collected on a supplement to the quarterly unemployment insurance tax reports filed by employers. For an establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the industry indicated by the principal product or activity.

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

Industry employment

Employment data, except those for the Federal Government, refer to persons on establishment payrolls who received pay for any part of

the pay period which includes the 12th of the month. For Federal Government establishments, employment figures represent the number of persons who occupied positions on the last day of the calendar month. Intermittent workers are counted if they performed any service during the month.

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

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

Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in construction, and nonsupervisory employees in private service-producing industries. An exception to the definitions below are the statistics on hours and earnings of Federal Government employees, reported in table C-3, which are for all Federal employees, both supervisory and nonsupervisory, for the entire calendar month. When the pay period reported is longer than 1 week, figures are reduced to a weekly basis.

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

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

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

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

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

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

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

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

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

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

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

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

Railroads hours and earnings. The figures for class I railroads (excluding switching and terminal companies) are based on monthly data

summarized in the M-300 report of the Interstate Commerce 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, the worker's marital status and level of gross income. To reflect these variables, the Bureau calculates two sets of spendable earnings series based on the assumptions that the worker earned the gross average weekly earnings and was taxed at the rates applicable to either (1) a single worker with no dependents, or (2) a married worker with three dependents who files a joint return. The computations are based on gross average weekly earnings for all production or nonsupervisory workers in the industry division excluding other income and income earned by other family members.

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

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

"Real" earnings, or earnings in constant dollars, are computed by dividing the earnings averages for the current month by the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and then multiplying by 100. This is done for gross average weekly earnings and for spendable average weekly earnings. The level of earnings is thus adjusted for changes in the purchasing power of the dollar since the base period (1967).

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

Indexes of aggregate weekly payrolls and hours. The indexes of aggregate weekly payrolls and hours are prepared by dividing the current month's aggregate by the average of the 12 monthly figures for 1967. For basic industries, the hour aggregates are the product of average weekly hours and production-worker or nonsupervisory-worker employment, and the payroll aggregates are the product of hour aggregates and average hourly earnings. At all higher levels of industry aggregation, hour and payroll aggregates are the sum of the component aggregates.

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

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

Labor turnover

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

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

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

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

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

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

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

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

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

Relationship of labor turnover to employment series

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

ESTIMATING METHODS

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

The "link relative" technique

From a sample composed of establishments reporting for both the previous and current months, the ratio of current month employment to that of the previous month is computed. This is called a "link relative." The estimates of employment (all employees, including production and nonproduction workers together) for the current month are obtained by multiplying the estimates for the previous month by these "link relatives." In addition, small bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past experience. Other features of the general procedures are described in table K.

Size and regional stratification

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

Benchmark adjustments

Employment estimates are compared periodically with comprehensive counts of employment which provide "benchmarks" for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1979 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by States agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonagricultural payrolls in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1979 benchmark adjustment is shown in table L.

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

THE SAMPLE

Design

The sampling plan used in the current employment statistics program is known as "sampling proportionate to average size of establish-

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

Item	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and, where stratified, individual cells)
Monthly data		
All employees	All-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. ¹	Sum of all-employee estimates for component cells.
Production or nonsupervisory workers, women employees	All-employee estimate for current month multiplied by (1) ratio of production or nonsupervisory workers to all employees in sample establishments for current month, (2) estimated ratio of women to all employees. ²	Sum of production- or nonsupervisory-worker estimates, or estimates of women employees, for component cells.
Gross average weekly hours	Production- or nonsupervisory-worker hours divided by number of production or nonsupervisory workers. ²	Average, weighted by production- or nonsupervisory-worker employment, of the average weekly hours for component cells.
Average weekly overtime hours	Production-worker overtime hours divided by number of production workers. ²	Average, weighted by production-worker employment, of the average weekly overtime hours for component cells.
Gross average hourly earnings	Total production- or nonsupervisory-worker payroll divided by total production- or nonsupervisory-worker hours. ²	Average, weighted by aggregate hours, of the average hourly earnings for component cells.
Gross average weekly earnings	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Labor turnover rates	The number of particular actions (e.g., quits) in reporting establishments divided by total employment in those firms. The result is multiplied by 100.	Average, weighted by employment, of the rates for component cells.
Annual average data		
All employees, women employees, and production or nonsupervisory workers	Sum of monthly estimates divided by 12.	Sum of monthly estimates divided by 12.
Gross average weekly hours	Annual total of aggregate hours (production- or nonsupervisory-worker employment multiplied by average weekly hours) divided by annual sum of employment.	Annual total of aggregate hours for production or nonsupervisory workers divided by annual sum of employment for these workers.
Average weekly overtime hours	Annual total of aggregate overtime hours (production-worker employment multiplied by average weekly overtime hours) divided by annual sum of employment.	Annual total of aggregate overtime hours for production workers divided by annual sum of employment for these workers.

See footnotes at end of table.

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

Item	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and, where stratified, individual cells)
Annual average data—Continued		
Gross average hourly earnings	Annual total of aggregate payrolls (product of production- or nonsupervisory-worker employment by weekly hours and hourly earnings) divided by annual aggregate hours.	Annual total 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	Annual average aggregate (of each labor turnover action) divided by annual average employment.	Annual average aggregate (of each labor turnover action) divided by annual average employment.

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

² The sample production-worker ratio, women-worker ratio, average weekly hours, average overtime hours, and average hourly earnings are modified by a wedging technique designed to com-

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

ment." This design is an optimum allocation design among strata since the sampling variance is proportional to the average size of establishments. Under this type of design, large establishments fall into the sample with certainty. The size of the sample for the various industries is determined empirically on the basis of experience and of cost considerations. In a manufacturing industry in which a high proportion of total employment is concentrated in relatively few establishments, a large percent of total employment is included in the sample. Consequently, the sample design for such industries provides

for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to design samples for these industries with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuation from regular cyclical or seasonal patterns than do establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

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

Coverage

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

Table L. Comparison of nonagricultural employment benchmarks and estimates for March 1979

Industry division	Benchmark March 1979	Estimate March 1979	Percent difference
Total	88,654	88,207	0.5
Mining	928	926	.2
Construction	4,093	4,226	-3.2
Manufacturing	20,972	20,887	.4
Transportation and public utilities	5,045	5,060	-.3
Wholesale and retail trade	19,809	19,690	.6
Finance, insurance, and real estate	4,876	4,870	.1
Services	16,829	16,749	.5
Government	16,102	15,799	1.9

Table M. Approximate size and coverage of BLS employment and payrolls sample, March 1979¹

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	166,200	34,701,000	39
Mining	2,200	366,000	39
Construction	16,300	736,000	18
Manufacturing	45,200	11,580,000	55
Transportation and public utilities:			
Railroad transportation (ICC)	40	489,000	91
Other transportation and public utilities ..	7,500	2,305,000	51
Wholesale and retail trade	41,800	3,408,000	17
Finance, insurance, and real estate	10,900	1,779,000	36
Services	24,500	3,257,000	19
Government:			
Federal ²	4,700	2,740,000	100
State and local	13,100	8,041,000	60

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

² National estimates of Federal employment by agency are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 4,700 reports covering about 55 percent of employment in Federal establishments.

Table N. Approximate size and coverage of BLS labor turnover sample, March 1979

Industry	Employees	
	Number reported	Percent of total
Total	9,987,000	44
Manufacturing	9,093,000	43
Mining	194,000	21
Telephone communication	700,000	68

Reliability of the employment estimates

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a "link relative" technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may cumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and response errors, the benchmark revision

adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table O presents the average percent revisions of the five most recent benchmarks (excluding the March 1973 adjustment) for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

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

[In percent]

Industry division	Average benchmark revision in estimates of employment ¹	Relative errors ² (in percent)	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment	0.3	—	—
Total private .....	.3	0.1	0.2
Mining	1.1	.5	.5
Contract construction	1.7	.2	.3
Manufacturing .....	.3	.1	.1
Durable .....	.4	.1	.1
Nondurable goods .....	.4	.1	.1
Transportation and public utilities .....	.4	.7	.4
Trade .....	.3	.1	.2
Wholesale .....	.9	.2	.3
Retail .....	.2	.2	.2
Finance, insurance, and real estate .....	.5	.2	.4
Services .....	.6	.4	.8
Government ³ .....	.5	—	—

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

² Relative errors relate to March 1971 data.

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

The hours and earnings estimates for basic estimating cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors which may be expressed as relative errors of the estimates. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors for major industries are presented in table O and for individual industries with the specified number of employees in table P. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

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

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

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

Approximations of the root-mean-square errors (based on the most recent benchmark revisions) of differences between final estimates and benchmarks are presented in table P.

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

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

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to March 1971 data.

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table Q presents root-mean-square errors of the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are normally not greater than 0.1 of an hour for weekly hours and 1 cent for hourly earnings.

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.

Table Q. Errors of preliminary employment estimates

Category	Root-mean-square error of—	
	Monthly level	Month-to-month change
INDUSTRY DIVISIONS		
Total nonagricultural employment	69,000	63,000
Mining	5,000	5,000
Contract construction	21,000	19,000
Manufacturing	25,000	24,000
Durable two-digit industries	3,700	3,500
Nondurable two-digit industries ..	2,500	2,500
Transportation and public utilities ...	14,000	14,000
Wholesale and retail trade	30,000	26,000
Finance, insurance, and real estate ...	7,000	6,000
Services	30,000	25,000
Government	43,000	36,000
DETAILED INDUSTRIES: SIZE OF EMPLOYMENT ESTIMATE		
50,000	300	400
100,000	700	700
200,000	1,100	1,100
500,000	3,900	4,100
1,000,000	3,800	3,900
2,000,000	6,000	6,100

NOTE: Division level data are based on differences from January 1974 through March 1980. Detailed industry data are based on differences from August 1978 through June 1979.

PRODUCTIVITY DATA

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

Definitions

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

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

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

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

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

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

Notes on the data

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

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

State and Area Unemployment Data (E tables)

FEDERAL-STATE COOPERATIVE PROGRAM

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

ESTIMATING METHODS

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

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

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

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

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

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

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

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

U = total entrant unemployment

E = total employment

X = total experienced unemployment

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

3. *Correction factors for employment and unemployment* are then applied at the State level to the UI-based estimates obtained above for each of the 40 States and the District of Columbia. These correction factors are based on the ratio of the CPS to the UI-based estimates for the 6 month period ending in the current month (e.g. a 6-month moving average).

4. *Substate adjustment for additivity.* Independent estimates of employment and unemployment are prepared both for the State (obtained directly from the CPS in the 10 large States or by the UI-based method in the remaining States), and labor market areas (LMA's)

within the State. The total of the geographic areas in the LMA's exhausts the geographic boundaries of the State. A proportional adjustment is applied to all substate LMA estimates to ensure that the substate estimates of employment and unemployment add to the independent State totals. In California and New York, which also have substate areas taken directly from the CPS, the additivity adjustment for the remaining areas is applied to the State total minus the direct CPS area.

5. *Benchmark correction procedures.* Once each year monthly estimates prepared by State employment security agencies using UI-based estimating procedures are adjusted, or benchmarked, by BLS to the annual average CPS estimates for the 40 States for which monthly

CPS estimates are not available. This adjustment is necessary because the State-prepared estimates are not as reliable as the CPS annual averages due to differences in State UI laws, the structural limitations of the UI-based estimating method, and errors in the UI data.

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

Seasonal adjustment

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

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

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

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

All civilian labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. For example, for each of the three major labor force components—agricultural employment, nonagricultural employment, and unemployment—data for four sex-age groups (males and females under and over 20 years of age) are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. In order to provide seasonally adjusted total employment and civilian labor force estimates, the appropriate series are aggregated. The official unemployment rate for all civilian workers is derived by dividing the estimate for total unemployment (the sum of 4 seasonally adjusted sex-age components) by the civilian labor force (the sum of 12 seasonally adjusted sex-age components).

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

Beginning in July 1980, the BLS also uses the X-11 ARIMA methodology in seasonally adjusting the establishment data, which previously had been computed using the *BLS Seasonal Factor Method*. All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors used in calculating the current estimates are based on data through March of 1980. The ARIMA model options for projecting the data series for 1 year ahead have not been used in seasonally adjusting the establishment series.

Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory

workers, seasonally adjusted, and dividing by the 1967 base. For total private, total goods-producing, private service-producing, trade, manufacturing, and durable and nondurable goods industries, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1967 base.

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

The seasonally adjusted establishment data for Federal Government are based on a series which excludes the Christmas temporary help employed by the Postal Service in December. The employment of these workers constitutes the only significant seasonal change in Federal Government employment during the winter months. Further-

more, the volume of such employment may change substantially from year to year because of administrative decisions by the Postal Service. Hence, it was considered desirable to exclude this group from the data upon which the seasonally adjusted series is based.

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

The revised seasonally adjusted series for the establishment data reflect experience through March 1980. Seasonal factors to be used for current adjustment appear in the July 1980 issue of *Employment and Earnings*.

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