

Employment and Earnings

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In this issue:
1978 annual averages for all
national industry series





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

¹ The issue that introduces new benchmarks varies. The October 1978 issue marks the introduction of March 1977 benchmarks and conversion to the 1972 SIC.

² Revised data introduced October 1978.

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Editors: Chester L. Green, Gloria P. Green, Marc Weinstein

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Employment and Unemployment Developments, February 1979

Employment rose in February and unemployment was unchanged. The level of unemployment remained at 5.9 million and the overall rate of joblessness (5.7 percent) continued to hover just below the 6 percent mark.

Total employment—as measured by the monthly survey of households—grew by 345,000 in February to 96.6 million. Over the past year, the number of employed persons has increased by 3.6 million.

Nonfarm payroll employment—as measured by the monthly survey of establishments—rose by 300,000 over the month to 87.8 million. Since February 1978, nonagricultural payroll jobs have advanced by 3.5 million.

Unemployment

The unemployment picture continued unchanged in February. The number of persons unemployed remained at January's level of 5.9 million, while the unemployment rate, 5.7 percent, was not very different from those of the prior 6 months. Similarly, the rates for adult men (4.0 percent) adult women (5.7 percent), and teenagers (16.1 percent) showed no significant movements from January to February, nor have these rates shown any substantive changes since August 1978.

Since February a year ago, the overall jobless rate has declined by four-tenths of a percentage point, and the number of unemployed has fallen by a quarter of a million. Virtually all of the decline in unemployment took place among adult men, whose rate was down by half a point. The unemployment rate for whites also has dropped by half a point, principally reflecting developments among white adult men, while the rate for blacks has shown no improvement. Hispanic workers experienced an over-the-year reduction in joblessness. (See tables A-33, A-35, and A-36.)

Total employment and the labor force

Total employment expanded by about 345,000 in February, a larger-than-average monthly rise, and the employment-to-population ratio reached a record 59.4 percent. All of the increase occurred among adults, with both men and women contributing. White-collar workers—particularly professional and clerical workers—were the major gainers. Over the year, employment has increased by 3.6 million, and white-collar jobholders have accounted for almost 70 percent of the growth. (See tables A-33 and A-42.)

The civilian labor force also grew by about 345,000 over the month to 102.5 million. The labor force was 3.3 million, or 3.4 percent larger than a year earlier. At 63.9 percent, the civilian labor force participation rate reached a new high and was more than a point above the February 1978 level.

Industry payroll employment

Nonfarm payroll employment increased by 300,000 to 87.8 million in February, as employment grew in two-thirds of the 172 industries that comprise the BLS diffusion index of private nonagricultural employment. The number of nonfarm jobs was 3.5 million higher than a year earlier. (See tables B-4 and B-7.)

For the second consecutive month, job gains were strongest in retail trade (115,000). The 2-month expansion of 200,000 contributed heavily to an over-the-year employment growth of 640,000 in this industry.

Sizeable over-the-month growth also occurred in durable goods manufacturing (80,000)—led by transportation equipment, machinery, and electrical equipment—and services (65,000). Smaller over-the-month gains took place in transportation and public utilities (35,000) and finance, insurance, and real estate (15,000).

Construction employment was down by 30,000 in February, following a somewhat smaller decline in January; however, employment in this cyclically sensitive industry was still 400,000 above the year-earlier level. Employment in mining continued the steady upward movement that has been evident since the 1973 energy crisis.

Hours

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls was 35.7 hours in February, unchanged from the January level. The manufacturing workweek, at 40.6 hours, edged down 0.1 hour over the month. Factory overtime, at 3.8 hours, was unchanged from January's level. (See table C-7.)

Reflecting the February employment increase, the index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls rose 0.5 percent to 123.0 (1967=100). The index was 5.0 percent above its year-ago level. (See table C-8.)

Hourly and weekly earnings

Average hourly and weekly earnings of production or

nonsupervisory workers on private nonagricultural payrolls both rose 0.5 percent from January and were 8.7 percent higher than February 1978 (seasonally adjusted). Before adjustment for seasonality, average hourly earn-

ings rose 2 cents to \$5.97, 48 cents above February 1978. Average weekly earnings were \$211.34, \$1.90 above January and \$17.54 above a year earlier. (See tables C-1 and C-9.)

Comparison of Nonagricultural Employment Estimates From Two Surveys

*Gloria Peterson Green

Statistics on the number of jobholders and the rate of growth of employment in nonagricultural industries are vital in appraising current labor market trends and in assessing the overall performance of the economy. Each month the Bureau of Labor Statistics publishes two independently derived estimates of nonagricultural employment, based on data collected from the household and establishment surveys. Data from the Current Population Survey (CPS) are obtained from a sample of 56,000 households and measure the *work status of individuals*, whereas data from the Current Employment Survey (CES) are derived from payroll records of approximately 165,000 establishments and thus are essentially a *count of occupied (paid) jobs*.

Both employment series have long histories, and, despite the difference in their sources, their movements have been strikingly similar over time. The levels of employment they estimate vary significantly, however. Differences also emerge from time to time in the magnitude and direction of month-to-month changes and in the timing and amplitude of business cycle swings.

These differences arise primarily because what the series measure—employed individuals versus occupied paid jobs—are really different phenomena. Dissimilarities in survey coverage and definitions can be quantified to some extent. However, differences in sampling techniques, collection, and estimation methods cannot be readily measured in terms of their effect on the levels or movements of the two series.

This article is a continuation of the Bureau's practice of providing an annual reconciliation of quantifiable differences between the series. It also examines the nature of some major but unmeasurable causes of discrepancies between them.¹

Concepts and definitions

Employment data from the CPS are obtained by household interview and differ in several basic respects from the related series derived from payroll reports from business establishments. The household survey provides information on the labor force activity of the entire civilian noninstitutional population 16 years of age and over, without dupli-

cation, since each individual is classified as either employed, unemployed, or not in the labor force. The estimate of employed persons in nonagricultural industries includes in addition to wage and salary workers, a number of groups who would not appear on establishment payrolls: The self-employed, private household workers, and unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises. Also included are persons "with a job but not at work" during the survey week because of illness, bad weather, vacation, labor management disputes, or various personal reasons, whether or not paid for the time absent.

The CES estimates of nonagricultural employment relate to the number of *paid* wage and salary employees, regardless of age, on employer payrolls. Employees who appear on more than one payroll during the survey period are counted separately for each appearance. In the CPS, dual jobholders are counted only once and are classified according to the job at which they worked the greatest number of hours during the survey week.

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¹ The first annual BLS reconciliation of the quantifiable differences between the two series appeared in the March 1978 issue of this publication. For previous articles comparing 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 on discrepancies between the two surveys appears in Joseph R. Antos, Anthony J. Barkume, J. Wilson Mixon, and Jack E. 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 "Coverage Issues Raised by Comparison Between CPS and Establishment Employment," Proceedings of the 1977 Social Statistics Section of the American Statistical Association, Chicago, Ill.

Measured differences

Table 1 shows annual average levels of the two series for 1976-78, including quantifiable differences. The reconciliation technique involves *subtracting* estimates of the following groups from the household series on nonagricultural employment: Self-employed workers, unpaid family workers, private household workers, and workers on unpaid absences from their jobs during the survey week. Then, estimates of employed 14- and 15-year olds in nonagricultural wage and salary jobs (excluding private household workers) and workers employed in agricultural services are *added* to the household series.²

After these adjustments to take into account quantifiable differences in coverage and definitions, the payroll survey estimates were 3.9 million higher in 1976 and 4.0 million greater in both 1977 and 1978. The remaining differences result primarily from factors which cannot be readily quantified in terms of their influence on the levels of the two series: Multiple job counting in the payroll survey, undercounting of the population in the household survey, and others.

Unmeasured differences

Multiple jobcounting can occur in the establishment survey because workers may hold two or more jobs concurrently, or because they may leave one job and obtain another within the same reference period and thus appear on the payroll records of both employers. Multiple counting can also arise from other factors, such as a worker who is compensated for earned vacation time after leaving a job.

In the absence of a matching of payroll records and Social Security numbers, the extent of multiple jobholding in this survey is difficult to quantify. In the household survey, however, this phenomenon is measured to some degree in special surveys conducted in May of each year. In May 1978, the number of persons 16 years of age and over working as nonagricultural wage and salary workers on second jobs totaled 2.9 million. The elimination of this and other types of dual counting would, of course, considerably reduce the differential between the two series.

The undercount of the population in the decennial Census has an important effect because population controls for the household survey sample are based on projections from the most recent decennial census. Thus, any undercoverage of the population understates significantly the employment levels derived from the survey. Although the Census Bureau has estimated that about 5.3 million persons (2.5 percent of the population) were missed in the 1970 Census, there are no "true" estimates of how many of these persons held nonfarm wage and salary jobs.³ The inclusion of such workers in the household survey total might also significantly reduce the difference between the levels of the two series.

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 holding civilian jobs, inmates who work in or outside penal institutions, and foreign workers (such as residents of Canada or Mexico) who commute to nonfarm jobs in the United States. Allowance for these unquantifiable differences in coverage might also reduce the differential between the two series.

Sampling variability

Both the household and establishment survey estimates are subject to sampling error, which should be taken into consideration when comparing the levels of the two series, as well as in analyzing their movements over time. Because the household survey is based on a sample, the results may differ from the figures that would have been obtained if a complete census had been taken using the same schedules, instructions, and enumerators. At present employment levels, the standard error of the household survey's nonagricultural wage and salary employment estimate is on the order of plus or minus 236,000 on a monthly basis. (Errors are somewhat less for annual averages.) This means that the chances are 68 out of 100 that an estimate from the survey would differ from a complete census figure by less than the standard error. As in any sample survey, the results are subject to errors of response, reporting, non-response, and undercoverage.⁴

The relatively large size of the monthly establishment survey—nearly 165,000 firms with over 30 million employees—assures a high degree of accuracy. Nevertheless, the estimates derived from it, just as in the CPS, may differ from the figures that would be obtained from a complete census using the same schedules and procedures. The results are also subject to errors of response, sampling, and processing.

Sampling and response errors may accumulate over several months because the estimating procedures employ the previous month's estimates as the base in computing the current month's level (link relative technique).

² Agricultural service workers are classified in agricultural industries in the household survey; in the establishment survey they are a sub-category of the service industry. Beginning October 1978 (with the introduction of the March 1977 benchmark and 1972 Standard Industrial Classification), establishment survey coverage in this industry has been limited to those subgroups which are largely nonagricultural in nature. Coverage of agricultural services (SIC 07) was reduced to include only veterinary, animal, landscape, and horticultural services, and coverage of forestry (SIC 08) and fishing, hunting, and trapping (SIC 09) was discontinued. Insofar as possible, historical data have been adjusted for this classification change.

³ In their preliminary draft report (prepared for public comment), "Counting the Labor Force," the National Commission on Employment and Unemployment Statistics has estimated the magnitude of the undercount of nonfarm wage and salary workers in the CPS for 1977 to be about 2.6 million (p. 195).

⁴ Standard errors applicable to the household survey data are published monthly in the Explanatory Notes of *Employment and Earnings*.

Moreover, estimates for the most current month are subject to additional error, since they are based on incomplete sample returns; these preliminary estimates, however, are revised during the following two successive months when all the returns in the sample have been received.

To remove any errors that do accumulate over time, the employment estimates are periodically adjusted to new benchmarks (comprehensive counts of employment). In addition to increasing the reliability of the estimates, the benchmark revision adjusts the estimates for intervening changes in industrial classifications and the formation of new establishments. Under this process, data for months subsequent to the last benchmark are subject to revision, which involves a process of wedging differences between benchmarks plus extrapolation from the last benchmark up to the current period. The chances are 68 out of 100 that an estimate from the sample would differ from its benchmark by less than the root-mean-square error. In its totality, the revision process takes an estimate for a given

month through two initial changes (from preliminary to final) and generally two benchmarks before it is no longer subject to revision (exclusive of seasonal adjustment) and is presumably devoid of sampling error.⁵

Employment estimates are currently projected from March 1977 benchmark levels, which were introduced in October 1978, coincident with the conversion to the 1972 Standard Industrial Classification system.⁶ Since the introduction of the March 1977 benchmark, the magnitude of recent changes in the household and payroll series has tended to be quite similar.

⁵ Measures of reliability (approximations of the RMSE) for establishment survey data and actual amounts of revisions due to benchmark adjustments are also published monthly in *Employment and Earnings*.

⁶ See, Michael Buso and William C. Bennett, Jr., "BLS Establishment Estimates Revised to Reflect New Benchmark Levels and 1972 SIC," *Employment and Earnings*, October 1978, Vol. 25, No. 10.

Table 1. Reconciliation of nonagricultural employment estimates from the household and establishment surveys, 1976-78 annual averages

(In thousands)

Series	1976	1977	1978	1977-78 change ¹
Payroll series, as published	<u>79,382</u>	<u>82,256</u>	<u>85,763</u>	<u>3,504</u>
Household series, as published	<u>84,188</u>	<u>87,302</u>	<u>91,031</u>	<u>3,612</u>
Less				
: Self-employed workers	5,689	6,005	6,305	254
: Unpaid family workers	458	492	472	-32
: Private household workers	1,358	1,376	1,363	-29
: Unpaid absentees	2,134	2,143	2,152	-2
Equals				
: Nonagricultural wage and salary workers less private household workers and unpaid absentees	<u>74,549</u>	<u>77,286</u>	<u>80,739</u>	<u>3,421</u>
Plus				
: 14- and 15-year-olds	590	671	702	40
: Agricultural service workers	298	297	316	15
Equals				
: Household series adjusted by above factors	<u>75,437</u>	<u>78,254</u>	<u>81,757</u>	<u>3,476</u>
Differences				
: Payroll series less adjusted household series ²	3,945	4,002	4,006	+4

¹ Comparisons of 1978 household survey data with data for prior years are affected by the introduction of an expansion in the sample and revisions in the estimation procedures introduced in January 1978. As a result, total nonagricultural employment was raised by about 120,000. The 1977-78 changes in the various household series shown have been adjusted to allow for these revisions.

² There are several factors which account for these remaining differences. Perhaps the largest is the dual jobholding phenomenon inherent in the payroll series. This is enumerated to some degree in

the household survey for the month of May. In 1976, 1977, and 1978 the estimated number of persons holding a second nonagricultural wage and salary job was 2,535,000, 2,923,000 and 2,870,000, respectively. Another primary source of discrepancy is the undercounting of the population through the decennial censuses, which, in turn, results in an understatement of the household survey's employment estimates. Allowance for these and other factors might significantly affect the differences shown.

Changes in the Spendable Earnings Series for 1979

*Michael Buso

Beginning with data for January 1979, the spendable earnings series published by the Bureau of Labor Statistics are affected by increased social security taxes and a revision in the Federal income tax laws (The Revenue Act of 1978). This article discusses the effects of these changes on the spendable earnings series and presents the formulas to be used in calculating spendable earnings for the first 6 months of 1979.

The spendable earnings series are based on gross average weekly earnings for all full-time and part-time production or nonsupervisory jobs in the private nonfarm sector of the economy. Spendable earnings series are also prepared separately for major industry divisions within this sector. The series are derived by applying to gross average weekly earnings a formula incorporating the social security and Federal income tax liabilities applicable to either (1) a single worker with no dependents who earned the average amount or (2) a married worker with three dependents who files a joint return and who earned the average amount.¹ Income tax liability is based on the standard deductions and credits allowed under income tax law.

Two changes in the social security tax laws became effective January 1, 1979. The social security tax rate was raised from 6.05 percent to 6.13 percent, and the tax base was increased from \$17,700 to \$22,900 per year (equivalent to an increase in the base from \$340.38 per week to \$440.38 per week).

Federal income tax liability was also significantly revised from that effective through 1978.² The Revenue Act of 1978 increased the personal exemption and zero bracket amounts, and changed both the basic tax tables and the tax credits.

The personal exemption was increased from \$750 to \$1,000. The zero bracket amounts—equivalent to standard deductions—were increased from \$2,200 to \$2,300 for single workers and from \$3,200 to \$3,400 for married workers filing joint returns.

The basic tax tables were changed for the first time since 1971. The income brackets were widened, and the tax rates were lowered for some brackets.³

The temporary general tax credits introduced in 1975 have expired. They provided tax credits of up to \$180.⁴ The earned income credit, as modified by The Revenue Act of 1978, has no expiration date. The poverty-oriented

earned income credit, limited to workers with dependent children and earned incomes of less than \$10,000 per year,

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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*, Feb. 1969, pp. 6-10; Paul M. Schwab, "Two Measures of Purchasing Power Contrasted," *Monthly Labor Review*, Apr. 1971, pp. 3-14; Jack Alterman, "Compensation per Man-Hour and Take-Home Pay," *Monthly Labor Review*, June 1971, pp. 25-34; and John F. Early, "Factors Affecting Trends in Real Spendable Earnings," *Monthly Labor Review*, May 1973, pp. 16-19.

² For an account of the methods used to compute tax liability under the Tax Reduction and Simplification Act of 1977, see Michael Buso and Eric Dmytrow, "Changes in the Spendable Earnings Series for 1977: The Effect of the Tax Reduction and Simplification Act of 1977," *Employment and Earnings*, Aug. 1977, pp. 7-15.

³ 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.

⁴ The most recent form of the general tax credit provided a 2-percent credit on the first \$9,000 of taxable income, but with a minimum credit of \$35 per personal exemption—within the \$180 maximum.

was increased to a maximum of \$500. Under the new law the earned income credit provides a tax credit of 10 percent of earned incomes of less than \$5,000; \$500 for earned incomes between \$5,000 and \$6,000; or, \$500 minus 12.5 percent of the amount earned income exceeds \$6,000 for earned incomes between \$6,000 and \$10,000.⁵ The credit thus affects only the spendable earnings series calculated for married workers with three dependents and weekly earnings of less than \$192.31.

Table 1 indicates the net effects of these tax law changes by comparing the tax liability applicable to selected earn-

ings levels. The formulas for calculating spendable earnings for January through June 1979 are presented following this article, along with the formulas used for 1977 and 1978.⁶

⁵ The temporary version of the earned income credit provided a credit of 10 percent of earned income up to \$4,000, with the credit then reduced from \$400 by 10 percent of the amount earned income exceeded \$4,000. Under those provisions the credit was effective up to the \$8,000 income level.

⁶ The spendable earnings formulas used for earlier years of the series are presented in the Mar. 1978 and Aug. 1977 issues of *Employment and Earnings*.

Table 1. Comparison of changes in tax liability, selected earnings levels¹

Earnings level		Weekly tax liability		Change in weekly tax liability from 1978 to January-June 1979	
Annual	Weekly	1978 ²	January-June 1979 ³	Actual	Percent
Single worker with no dependents					
\$7,000	\$134.62	\$20.05	\$19.82	\$-0.23	-1.1
8,000	153.85	24.87	24.57	-.30	-1.2
9,000	173.08	29.72	29.31	-.41	-1.4
10,000	192.31	35.11	34.42	-.69	-2.0
11,000	211.54	40.51	39.64	-.87	-2.1
12,000	230.77	46.12	44.97	-1.15	-2.5
14,000	269.23	58.47	56.60	-1.87	-3.2
16,000	307.69	71.59	68.96	-2.63	-3.7
18,000	346.15	85.12	82.85	-2.27	-2.7
20,000	384.62	97.65	97.37	-.28	-0.3
Private nonfarm—average weekly earnings, Oct. 1978	210.37	40.18	39.32	-.86	-2.1
Married worker with 3 dependents					
\$7,000	\$134.62	\$8.14	\$8.25	\$0.11	1.4
8,000	153.85	11.63	9.43	-2.20	-18.9
9,000	173.08	15.82	12.52	-3.30	-20.9
10,000	192.31	20.21	18.98	-1.23	-6.1
11,000	211.54	24.95	23.23	-1.72	-6.9
12,000	230.77	29.77	27.65	-2.12	-7.1
14,000	269.23	39.09	36.94	-2.15	-5.5
16,000	307.69	49.31	46.27	-3.04	-1.2
18,000	346.15	59.74	56.70	-3.04	-1.1
20,000	384.62	69.24	67.14	-2.10	-0.7
Private nonfarm—average weekly earnings, Oct. 1978	210.37	24.66	22.97	-1.69	-6.9

¹ Calculated under the assumptions of the BLS spendable earnings series. See article.

² 1978 tax liability was determined by The Tax Reduction

and Simplification Act of 1977.

³ January-June 1979 tax liability was determined by The Revenue Act of 1978, effective January 1, 1979.

Spensible Average Weekly Earnings Formulas, 1977-79

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 1977—May 1977	0 — 51.92	.9415X	0 — 131.92	.9415X
	51.93— 56.73	.8015X+ 7.27	131.93—136.54	.6915X+ 32.98
	56.74— 66.35	.7915X+ 7.83	136.55—153.85	.6815X+ 34.34
	66.36— 75.96	.7815X+ 8.50	153.86—155.77	.7815X+ 18.96
	75.97— 80.77	.7715X+ 9.25	155.78—175.00	.7715X+ 20.52
	80.78— 85.58	.7915X+ 7.64	175.01—232.69	.7515X+ 24.02
	85.59—124.04	.7715X+ 9.36	232.70—251.92	.7715X+ 19.37
	124.05—162.50	.7515X+ 11.84	251.93—252.40	.7415X+ 26.92
	162.51—200.96	.7215X+ 16.71	252.41—274.73	.7735X+ 18.85
	200.97—204.33	.7115X+ 18.72	274.74—317.31	.7567X+ 23.46
	204.34—223.21	.7483X+ 11.20	317.32—336.54	.8152X+ 4.90
	223.22—246.11	.7315X+ 14.95	336.55—342.31	.78X+ 16.75
	246.12—288.46	.7147X+ 19.09	342.32—419.23	.75X+ 27.02
	288.47—291.35	.6715X+ 31.55	419.24—496.15	.72X+ 39.59
	291.36—317.31	.6515X+ 37.37	496.16—573.08	.68X+ 59.44
	317.32—329.81	.71X+ 18.81	573.09—650.00	.64X+ 82.36
	329.82—368.27	.69X+ 25.41	650.01—726.92	.61X+ 101.86
	368.28—406.73	.66X+ 36.46		
	406.74—445.19	.64X+ 44.59		
	June 1977—December 1977	0 — 68.72	.9415X	0 — 154.37	.9415X
68.73— 75.96		.7986X+ 9.82	154.38—155.77	.7986X+ 22.06
75.97— 80.77		.7886X+ 10.59	155.78—157.69	.8058X+ 20.95
80.78— 85.58		.7744X+ 11.74	157.70—175.00	.7886X+ 23.64
85.59— 90.38		.7715X+ 11.98	175.01—176.92	.8029X+ 21.14
90.39— 95.19		.8058X+ 8.90	176.93—196.15	.7858X+ 24.19
95.20—124.04		.7715X+ 12.17	196.16—232.69	.7515X+ 30.91
124.05—133.65		.7858X+ 10.40	232.70—251.92	.7372X+ 34.23
133.66—162.50		.7515X+ 14.98	251.93—252.40	.7586X+ 28.84
162.51—172.12		.7729X+ 11.50	252.41—253.85	.7358X+ 34.60
172.13—200.96		.7215X+ 20.34	253.86—273.08	.7701X+ 25.91
200.97—204.33		.7286X+ 18.91	273.09—274.73	.7186X+ 39.95
204.34—210.58		.7024X+ 24.28	274.74—292.31	.7306X+ 36.66
210.59—223.21		.6852X+ 27.90	292.32—317.31	.6964X+ 46.67
223.22—229.81		.6972X+ 25.22	317.32—336.54	.7549X+ 28.11
229.82—246.11		.6629X+ 33.09	336.55—342.31	.78X+ 19.65
246.12—249.04		.6749X+ 30.13	342.32—350.00	.8014X+ 12.31
249.05—287.50		.6406X+ 38.67	350.01—419.23	.75X+ 30.31
287.51—288.46		.6064X+ 48.52	419.24—426.92	.7714X+ 21.33
288.47—291.35		.6372X+ 39.62	426.93—496.15	.72X+ 43.29
291.36—317.31	.6515X+ 35.47	496.16—503.85	.7486X+ 29.11	
317.32—325.96	.71X+ 16.91	503.86—573.08	.68X+ 63.66	
325.97—329.81	.6757X+ 28.08	573.09—580.77	.7086X+ 47.29	
329.82—364.42	.69X+ 23.37	580.78—650.00	.64X+ 87.11	
364.43—368.27	.6386X+ 42.11	650.01—657.69	.6614X+ 73.18	
368.28—402.88	.66X+ 34.21	657.70—726.92	.61X+ 107.00	
402.89—406.73	.6257X+ 48.03			
406.74—441.35	.64X+ 42.22			
1977 Annual Average	0 — 61.54	.9415X	0 — 144.62	.9415X
	61.55— 66.35	.8015X+ 8.61	144.63—153.85	.6915X+ 36.15
	66.36— 75.96	.7915X+ 9.27	153.86—157.69	.7915X+ 20.77
	75.97— 85.58	.7815X+ 10.03	157.70—176.92	.7815X+ 22.34
	85.59— 90.38	.7715X+ 10.89	176.93—196.15	.7715X+ 24.12
	90.39— 95.19	.7915X+ 9.09	196.16—253.85	.7515X+ 28.04
	95.20—133.65	.7715X+ 11.00	253.86—273.08	.7715X+ 22.97
	133.66—172.12	.7515X+ 13.67	273.09—292.31	.7415X+ 31.16
	172.13—210.58	.7215X+ 18.83	292.32—317.31	.7215X+ 37.00
	210.59—229.81	.7115X+ 20.94	317.32—350.00	.78X+ 18.44
	229.82—249.04	.6915X+ 25.53	350.01—426.92	.75X+ 28.94
	249.05—287.50	.6715X+ 30.51	426.93—503.85	.72X+ 41.75
	287.51—317.31	.6515X+ 36.26	503.86—580.77	.68X+ 61.90
	317.32—325.96	.71X+ 17.70	580.78—657.69	.64X+ 85.13
	325.97—364.42	.69X+ 24.22	657.70—734.62	.61X+ 104.86
	364.43—402.88	.66X+ 35.15		
	402.89—441.35	.64X+ 43.21		
441.36—479.81	.62X+ 52.03			
479.82—556.73	.60X+ 61.63			

See footnotes at end of table.

Spendable Average Weekly Earnings Formulas, 1977-79—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 1978—December 1978	0 - 61.54	.9395X	0 -144.62	.9395X
	61.55- 66.35	.7995X+ 8.61	144.63-153.85	.6895X+ 36.15
	66.36- 75.96	.7895X+ 9.27	153.86-157.69	.7895X+ 20.77
	75.97- 85.58	.7795X+10.03	157.70-176.92	.7795X+ 22.34
	85.59- 90.38	.7695X+10.89	176.93-196.15	.7695X+ 24.12
	90.39- 95.19	.7895X+ 9.09	196.16-253.85	.7495X+ 28.04
	95.20-133.65	.7695X+11.00	253.86-273.08	.7695X+ 22.97
	133.66-172.12	.7495X+13.67	273.09-292.31	.7395X+ 31.16
	172.13-210.58	.7195X+18.83	292.32-340.38	.7195X+ 37.00
	210.59-229.81	.7095X+20.94	340.39-350.00	.78 X+ 16.41
	229.82-249.04	.6895X+25.53	350.01-426.92	.75 X+ 26.91
	249.05-287.50	.6695X+30.51	426.93-503.85	.72 X+ 39.72
	287.51-325.96	.6495X+36.26	503.86-580.77	.68 X+ 59.87
	325.97-340.38	.6295X+42.78	580.78-657.69	.64 X+ 83.10
	340.39-364.42	.69 X+22.19	657.70-734.62	.61 X+102.83
	364.43-402.88	.66 X+33.12		
	402.89-441.35	.64 X+41.18		
January 1979—June 1979	0 - 63.46	.9387X	0 -165.89	.9387X
	63.47- 84.61	.7987X+ 8.88	165.90-182.69	.6737X+ 43.96
	84.62-103.84	.7787X+10.58	182.70-192.30	.6537X+ 47.62
	103.85-144.23	.7587X+12.65	192.31-223.07	.7787X+ 23.58
	144.24-182.69	.7487X+14.09	223.08-305.76	.7587X+ 28.03
	182.70-226.92	.7287X+17.75	305.77-384.61	.7287X+ 37.21
	226.93-267.30	.6987X+24.56	384.62-440.38	.6987X+ 48.75
	267.31-307.69	.6787X+29.90	440.39-465.38	.76 X+ 21.75
	307.70-369.23	.6387X+42.21	465.39-550.00	.72 X+ 40.37
	369.24-440.38	.5987X+56.98	550.01-651.92	.68 X+ 62.37
	440.39-471.15	.66 X+29.98	651.93-753.84	.63 X+ 94.96
	471.16-573.07	.61 X+53.54		

¹ For workers who earned the average weekly earnings.

² Formulas for computing annual averages take into account the changes during the year in income tax rates.

Table 2. Revised seasonally adjusted real earnings series of production or nonsupervisory workers¹ on private nonagricultural payrolls

The seasonally adjusted real earnings series, shown below, from January 1974 through December 1978, have been revised to reflect seasonal experience in the CPI-W through 1978.

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.
GROSS AVERAGE HOURLY EARNINGS - IN 1967 DOLLARS												
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.....	2.82	2.81	2.82	2.81	2.82	2.81	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	2.88	2.88	2.89	2.88	2.89	2.91	2.91	2.90
1978.....	2.91	2.91	2.91	2.92	2.91	2.90	2.91	2.90	2.90	2.90	2.91	2.91
GROSS AVERAGE WEEKLY EARNINGS - IN 1967 DOLLARS												
1974.....	106.77	106.48	105.66	104.40	105.32	105.64	105.24	104.60	104.32	103.79	102.29	102.08
1975.....	101.79	101.09	100.89	100.89	101.06	101.32	100.67	101.74	101.35	101.45	101.87	101.81
1976.....	102.95	102.91	102.53	102.47	103.06	102.78	102.99	103.01	102.87	103.15	103.83	103.77
1977.....	103.25	103.78	104.01	104.00	103.94	103.68	104.13	103.38	103.77	104.99	104.66	104.25
1978.....	103.32	103.81	104.86	105.59	104.32	104.20	104.48	103.97	103.86	104.16	104.14	104.41
SPENDABLE AVERAGE WEEKLY EARNINGS-MARRIED WORKER WITH 3 DEPENDENTS - IN 1967 DOLLARS												
1974.....	93.25	92.88	92.15	91.10	91.70	91.85	91.49	90.86	90.53	90.03	88.78	88.53
1975.....	88.25	87.66	87.47	87.42	91.54	91.66	91.04	91.83	91.45	91.47	91.70	91.58
1976.....	91.71	91.66	91.34	91.24	91.63	91.36	91.47	91.41	91.24	91.40	91.86	91.75
1977.....	91.25	91.53	91.63	91.52	91.41	94.79	95.10	94.46	94.71	95.63	95.29	94.91
1978.....	92.36	92.65	93.33	93.76	92.69	92.48	92.60	92.13	91.94	92.04	91.95	92.06

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.

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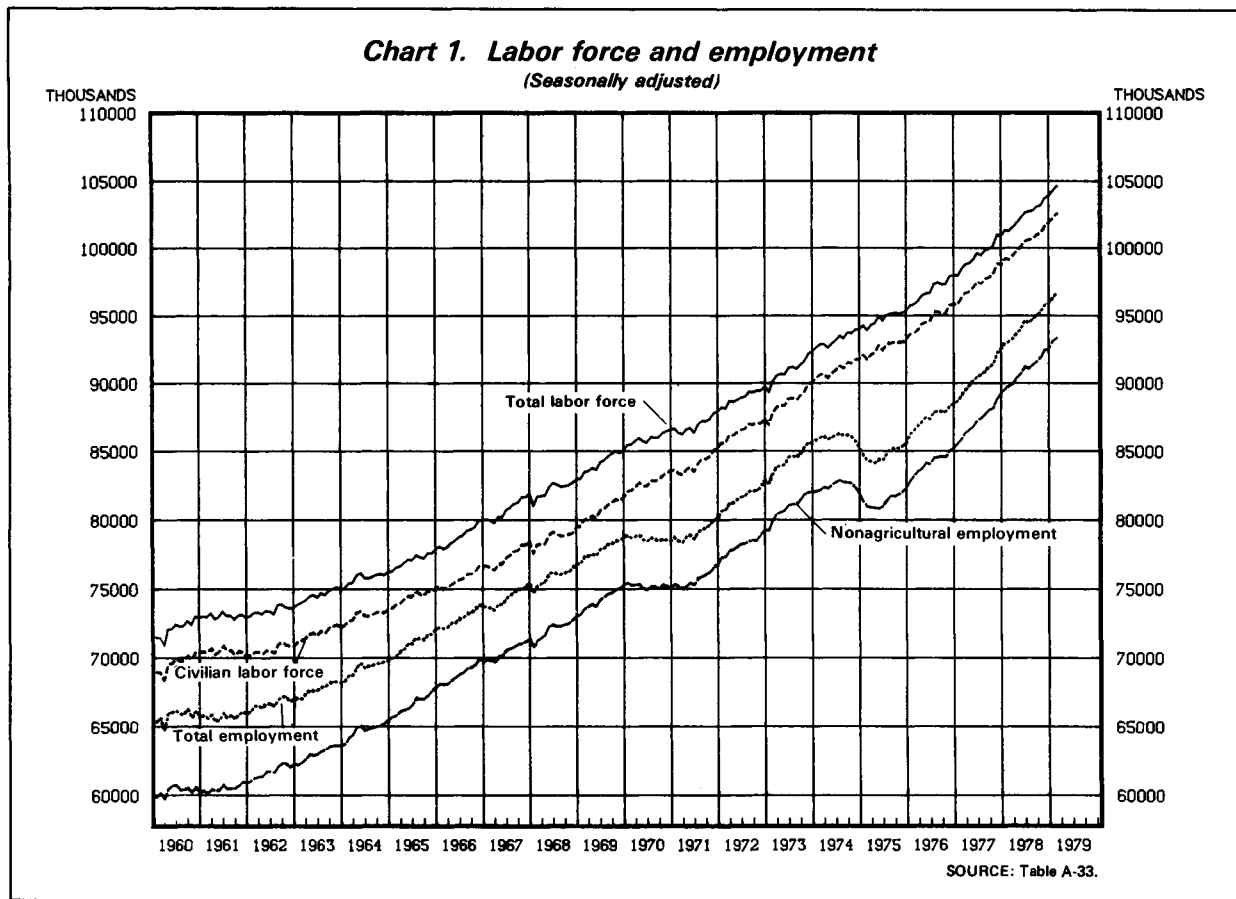


Chart 2. Major unemployment indicators
(Seasonally adjusted)

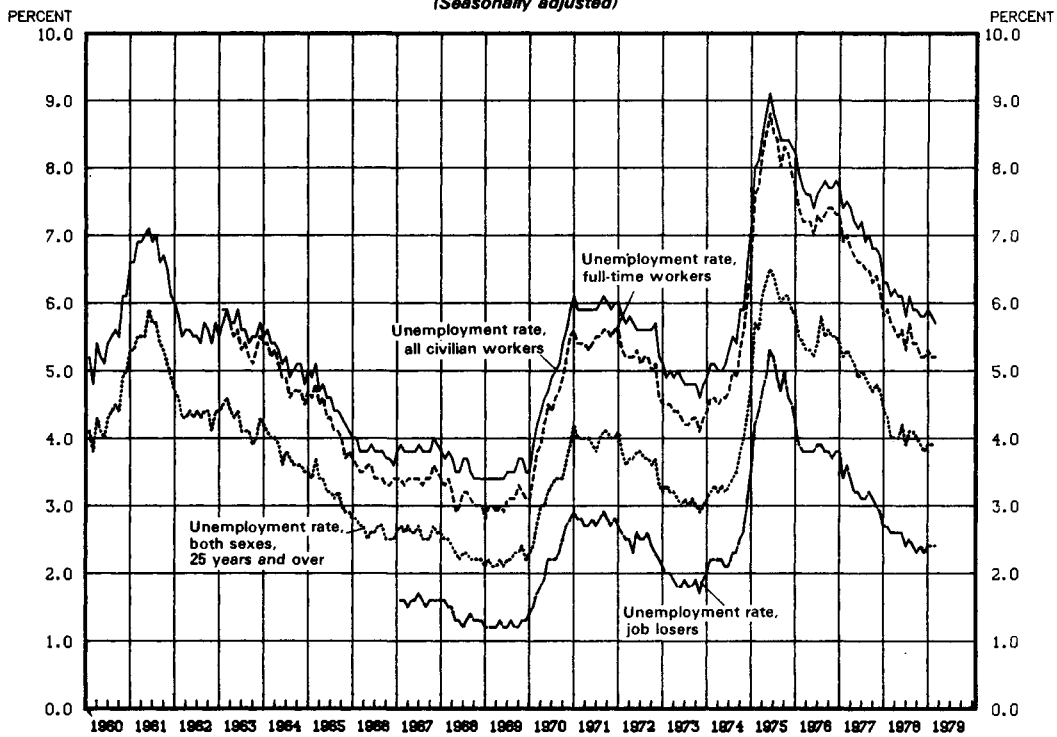


Chart 3. Civilian labor force participation rates by sex and age
(Seasonally adjusted)

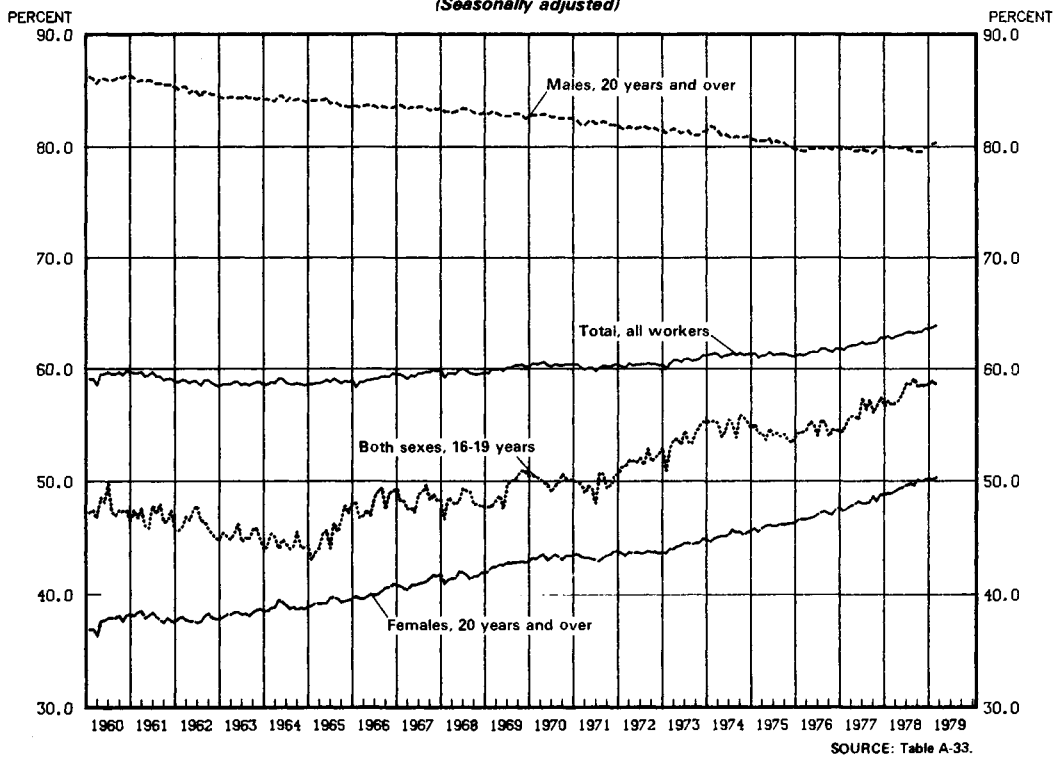
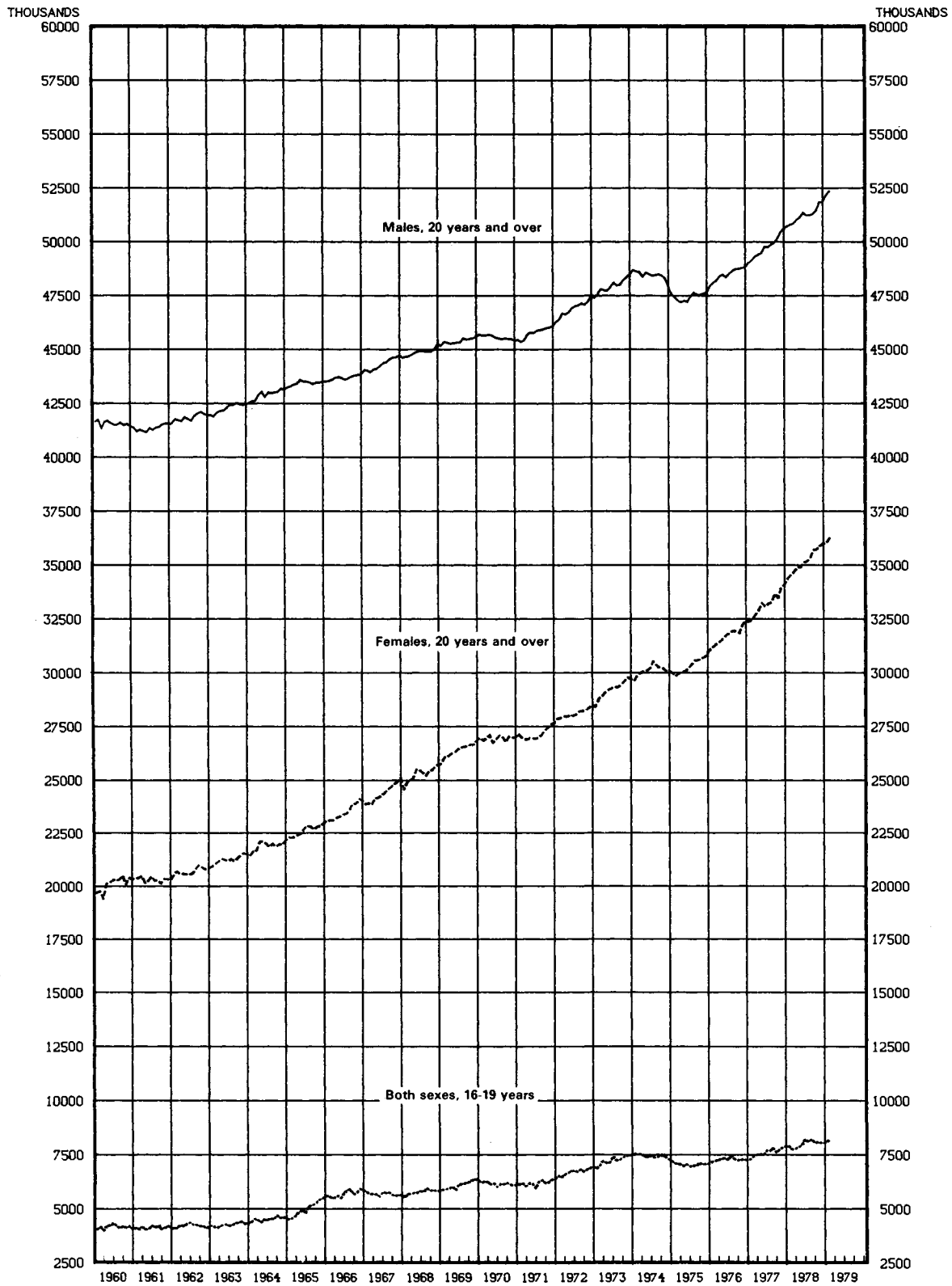


Chart 4. Total employment by sex and age

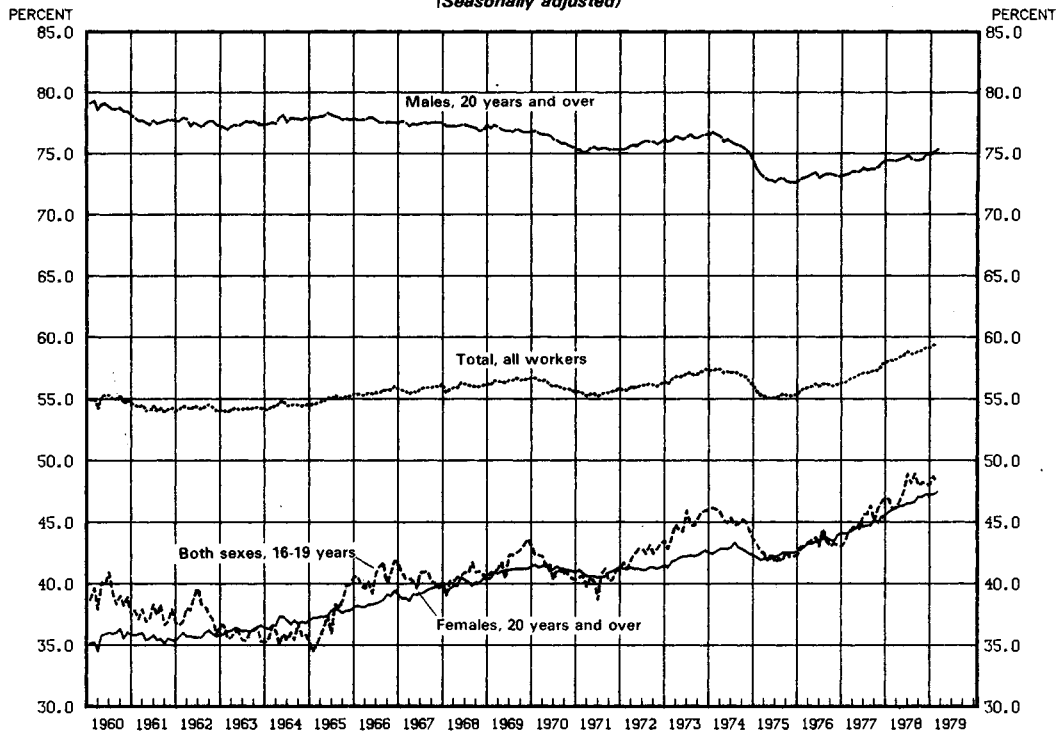
(Seasonally adjusted)



SOURCE: Table A-33.

Chart 5. Employment—population ratios by sex and age

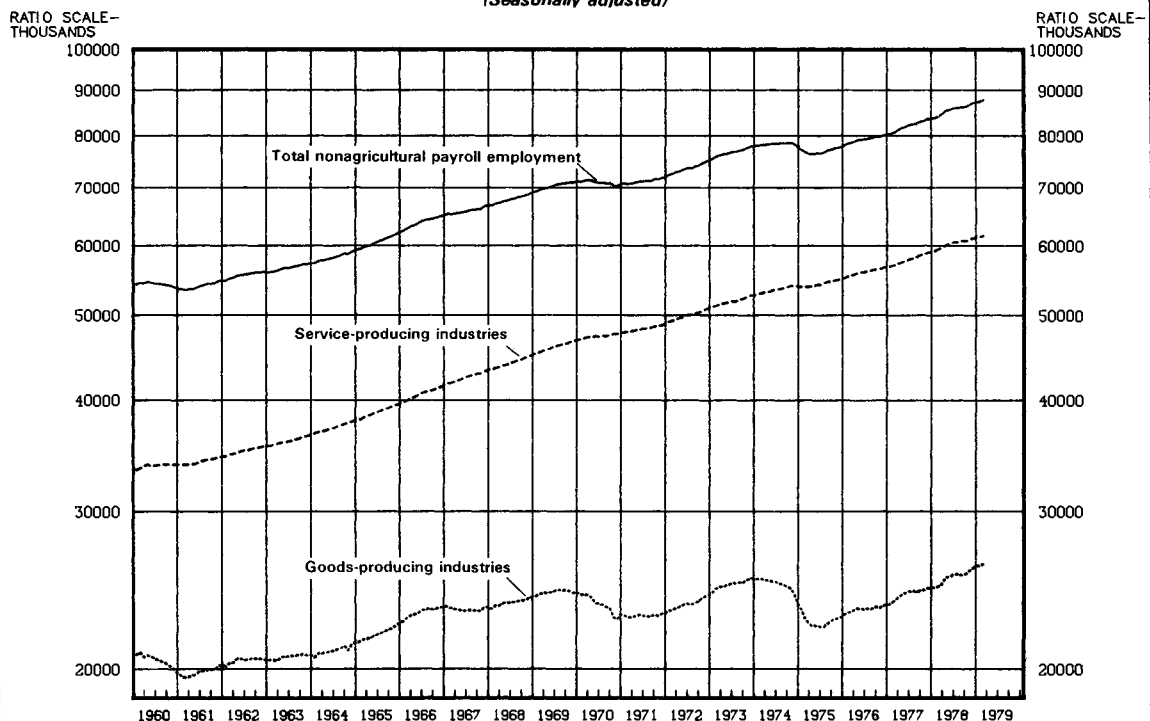
(Seasonally adjusted)



SOURCE: Table A-33.

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

(Seasonally adjusted)

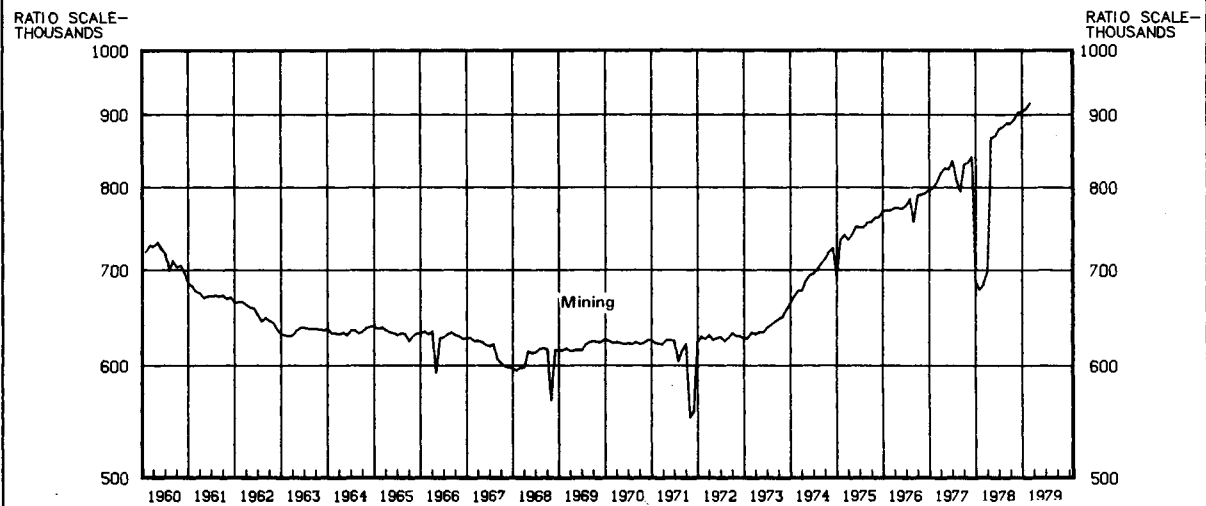
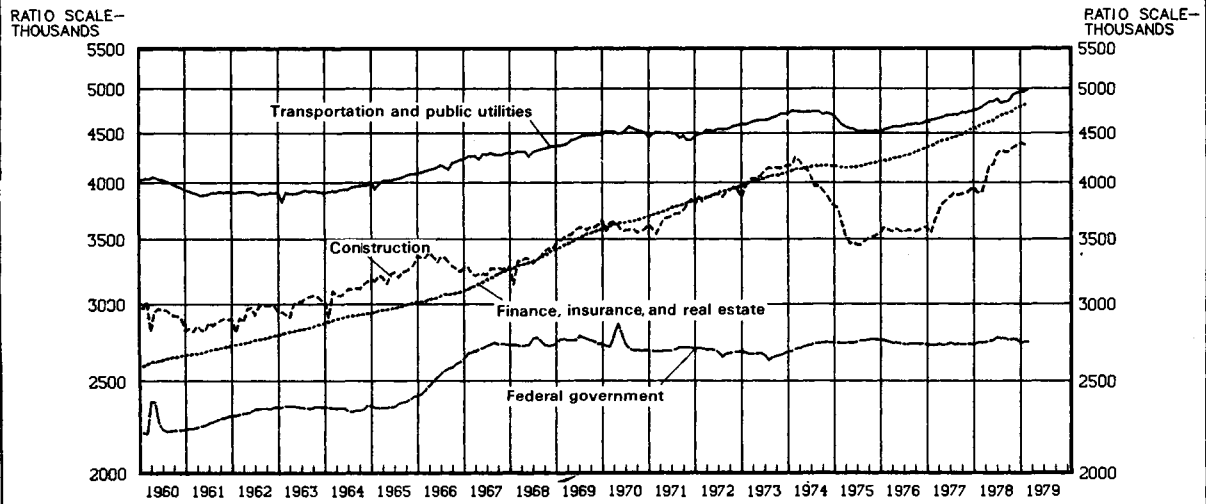
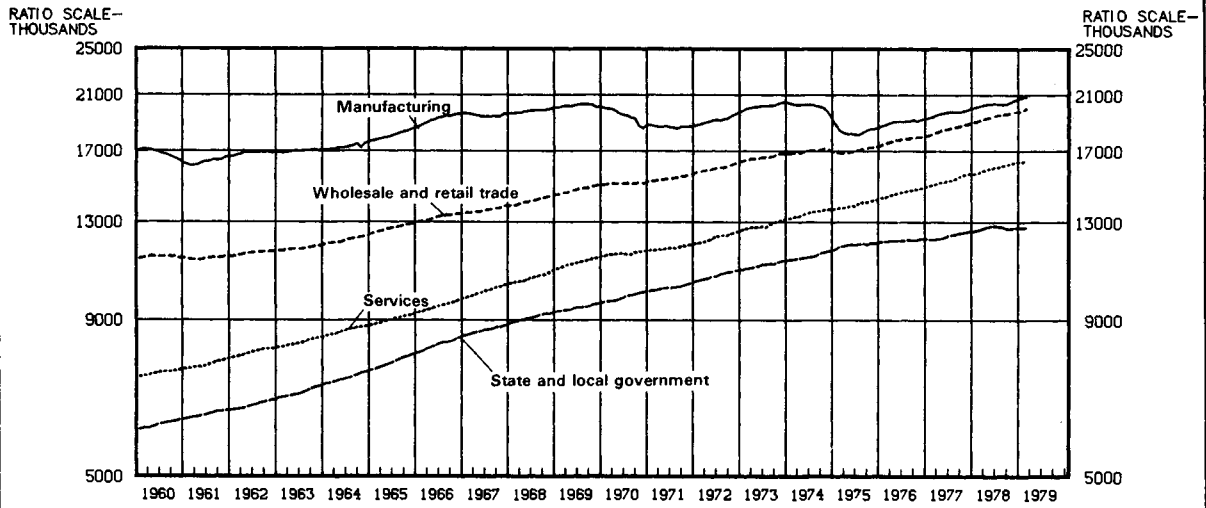


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

Chart 7. Nonagricultural payroll employment by industry

(Seasonally adjusted)

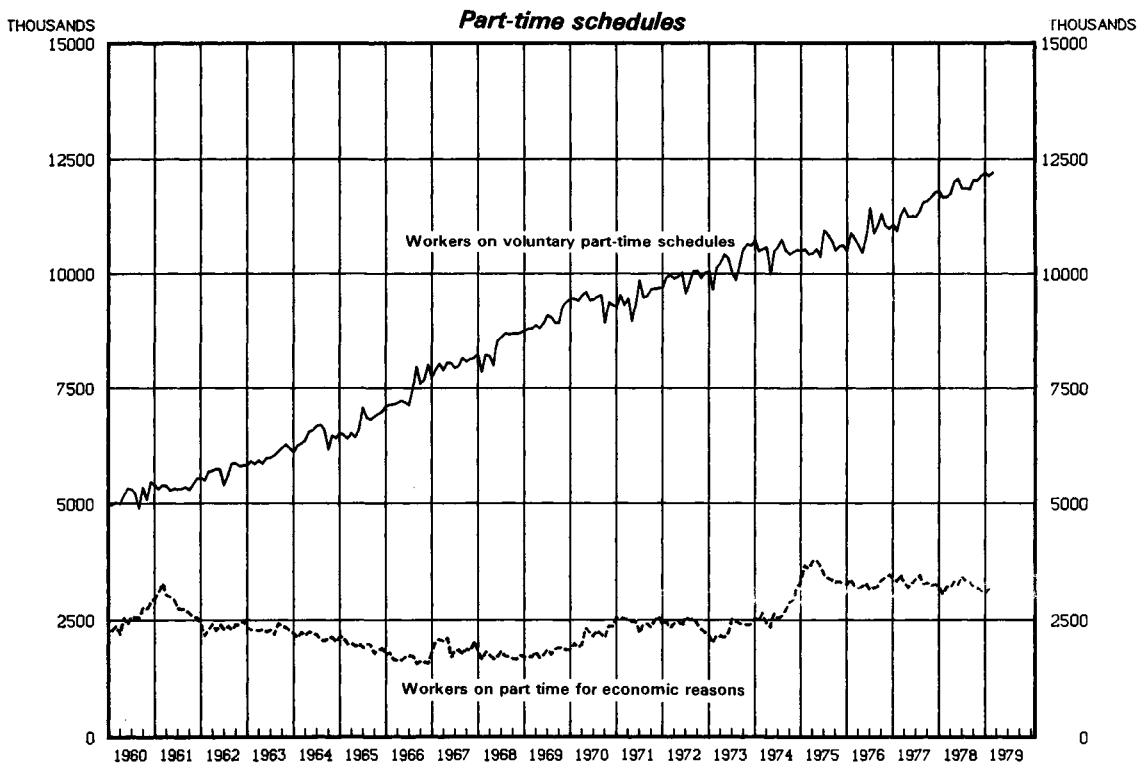
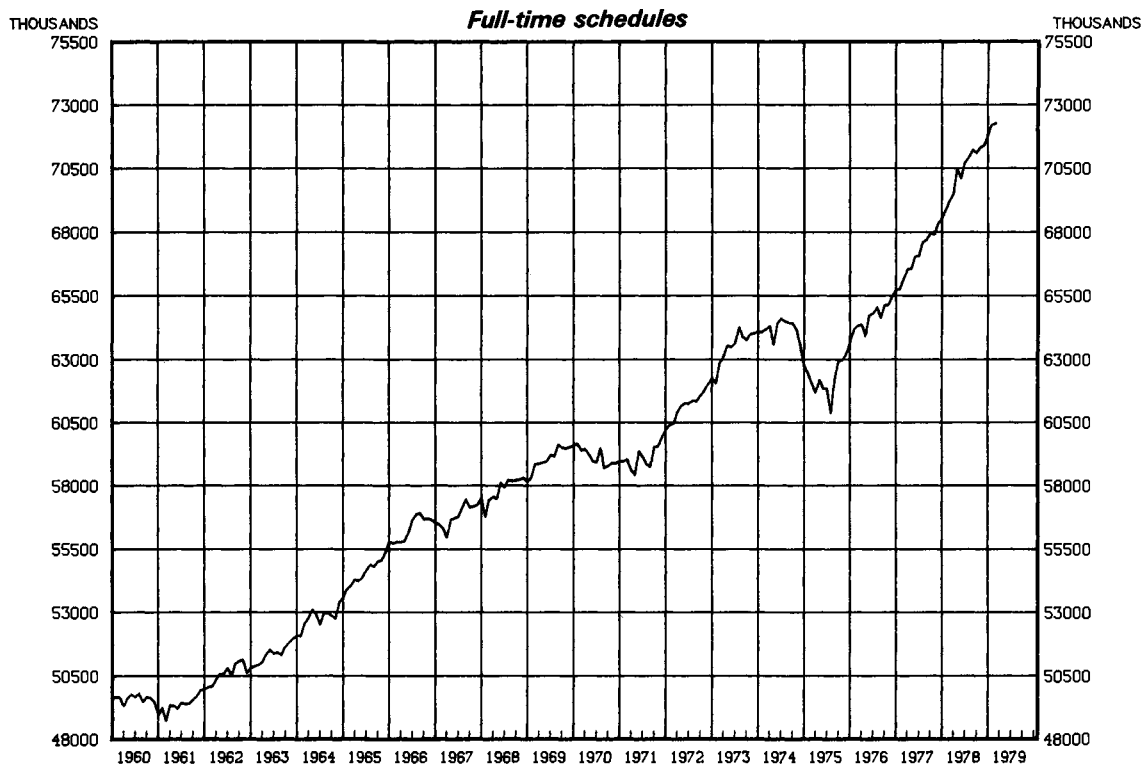


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

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

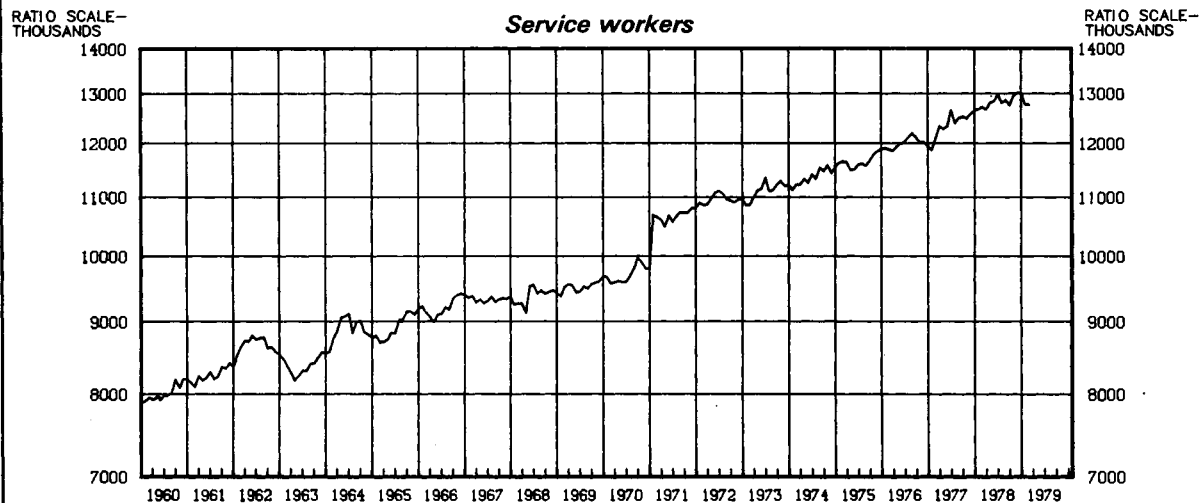
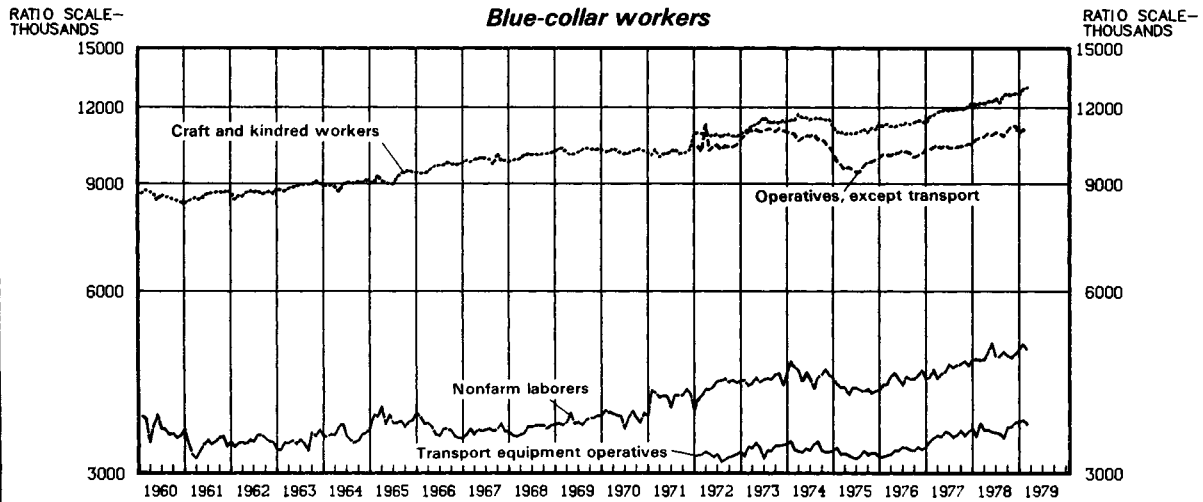
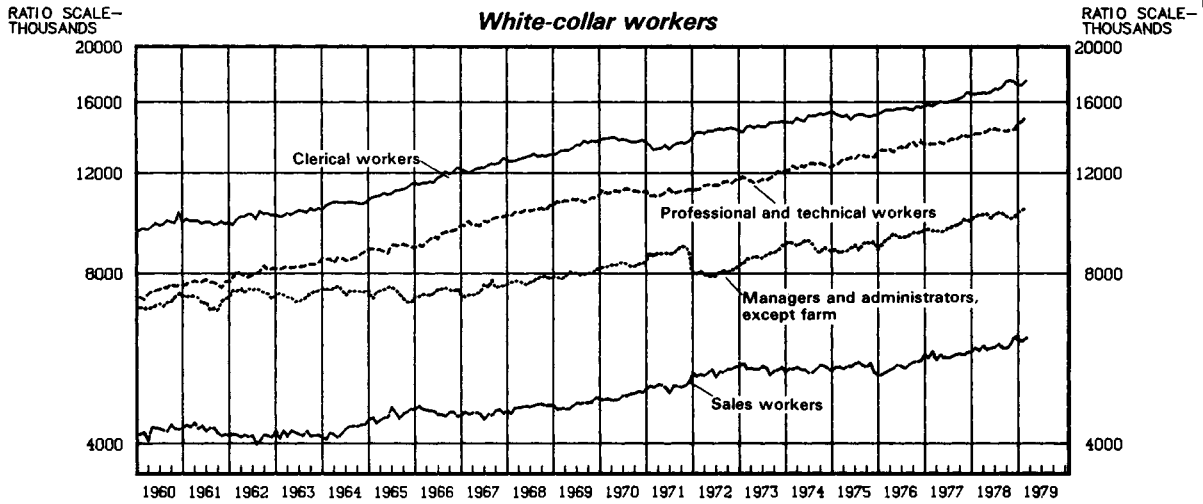
(Seasonally adjusted)



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 occupational classification system" in the Explanatory Notes.

SOURCE: Table A-42.

Chart 10. Unemployment rates by sex and age

(Seasonally adjusted)

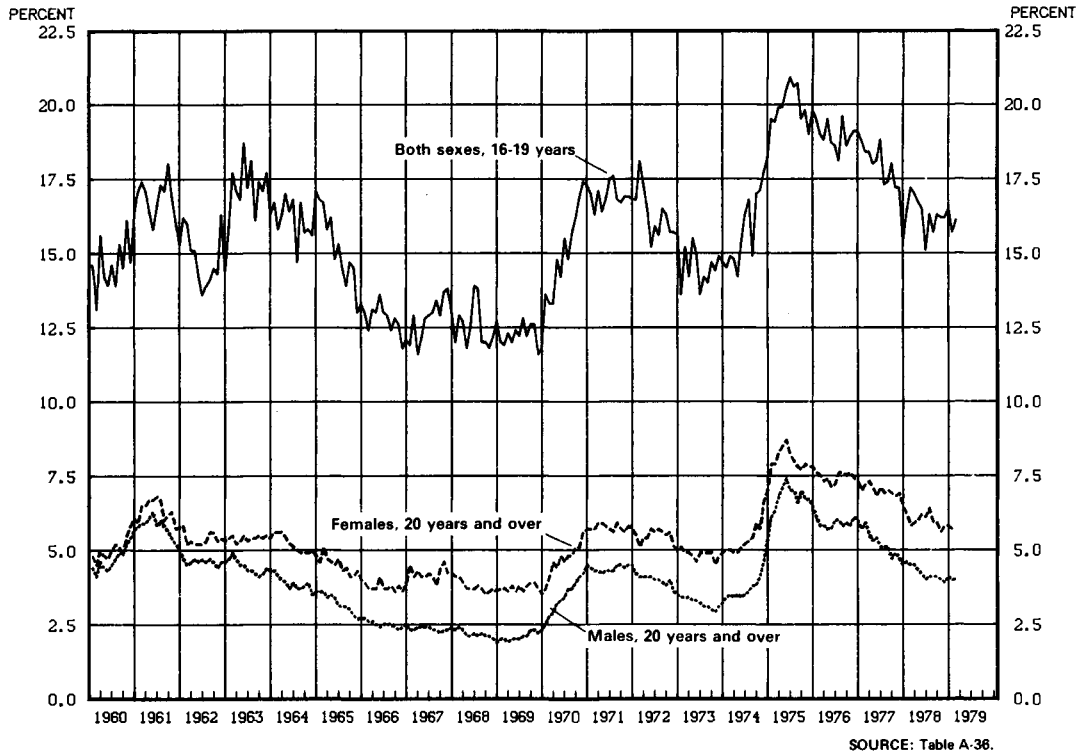
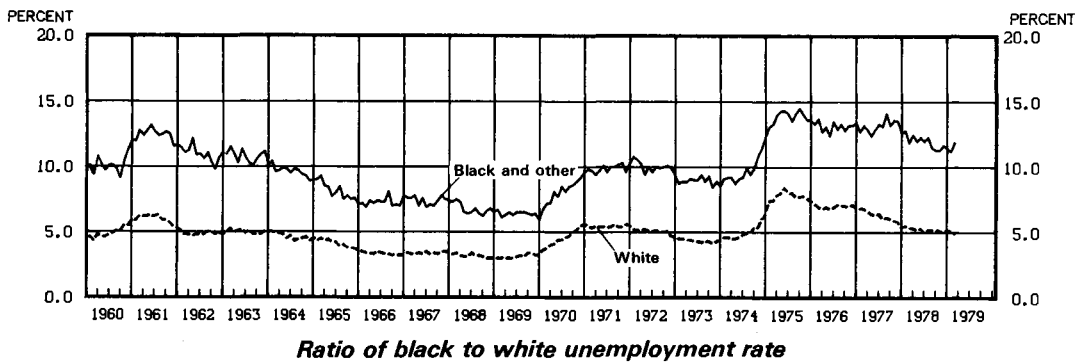


Chart 11. Unemployment rates by race

(Seasonally adjusted)



Ratio of black to white unemployment rate

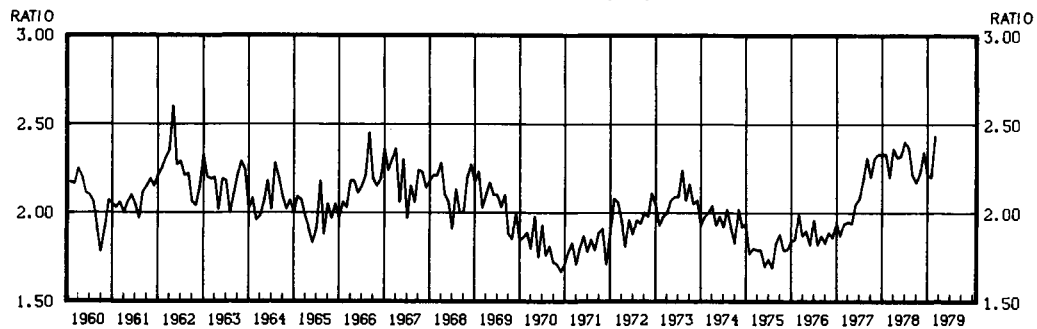
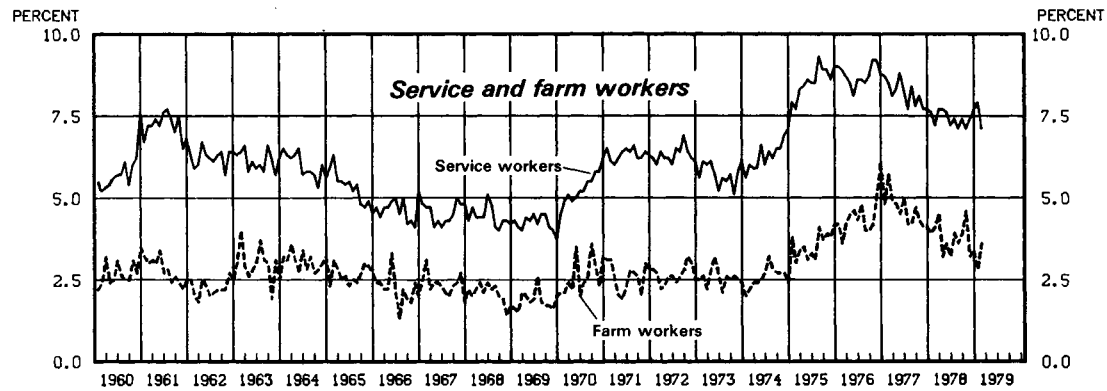
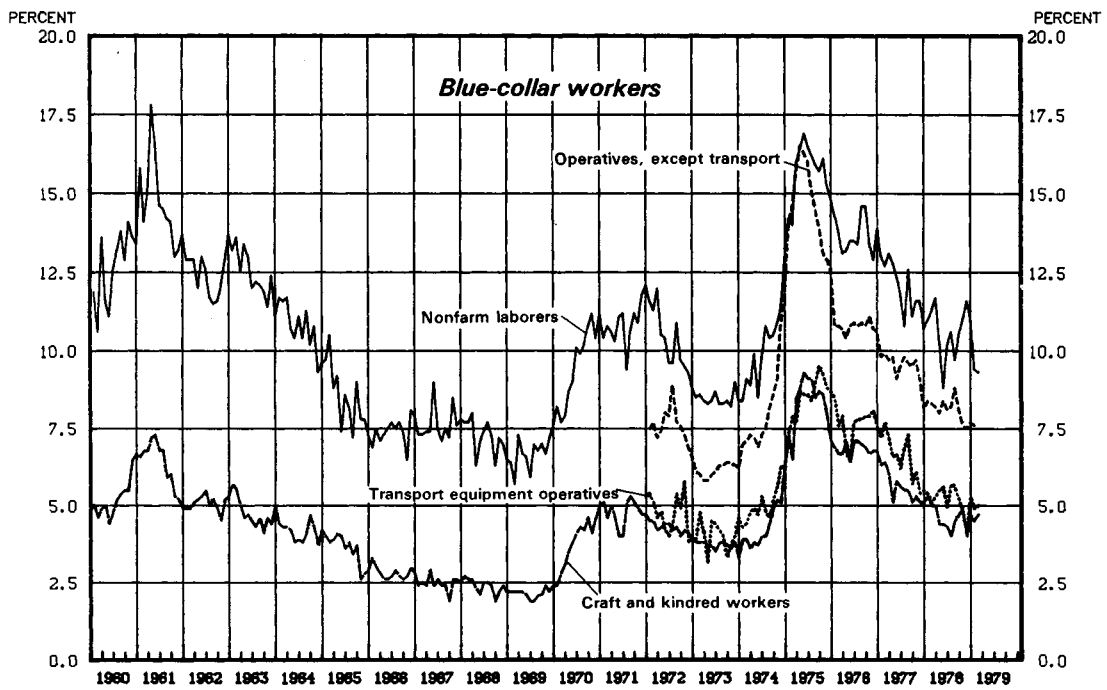
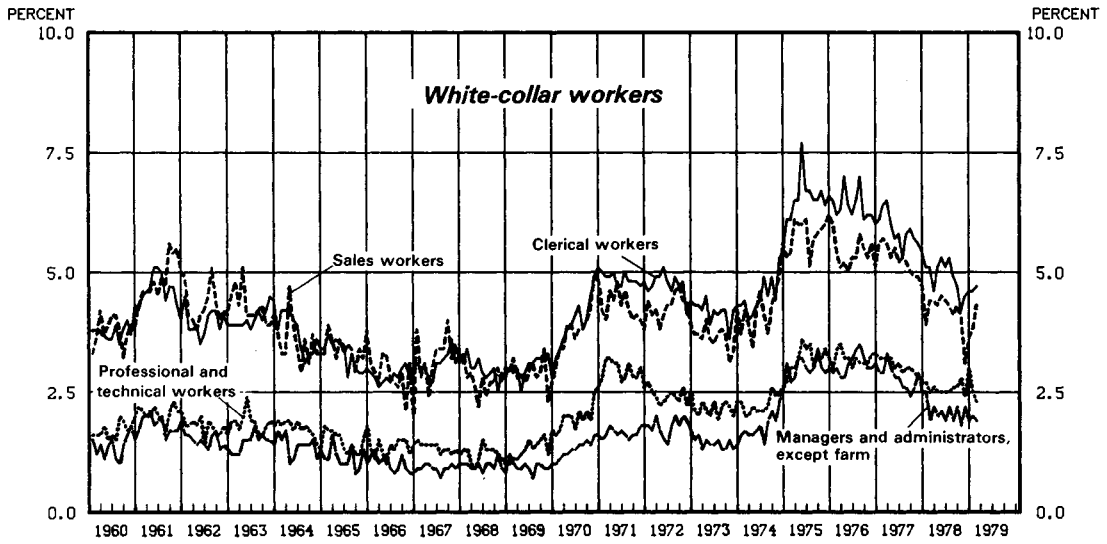


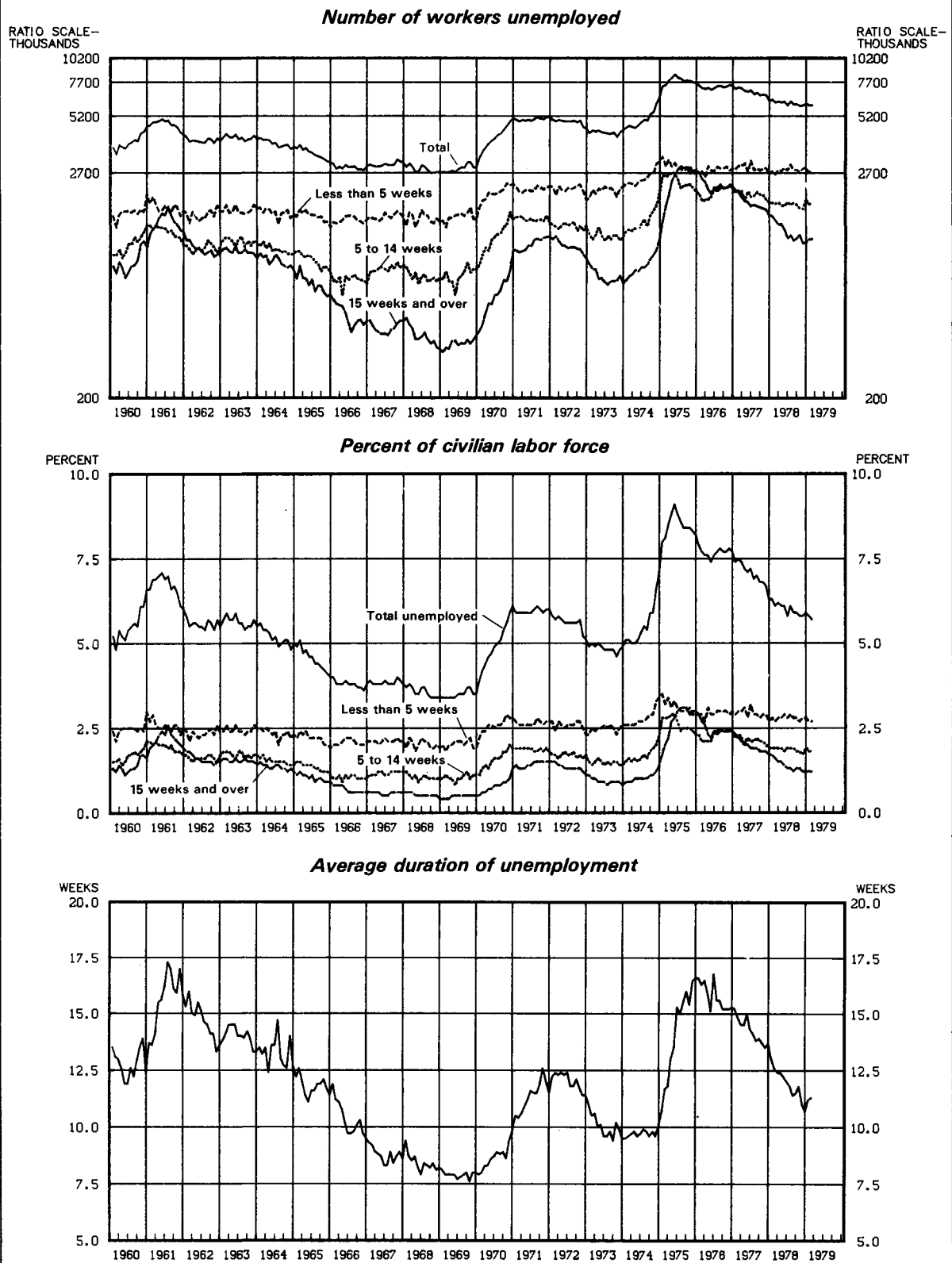
Chart 12. Unemployment rates by major occupational groups
(Seasonally adjusted)



SOURCE: Table A-36.

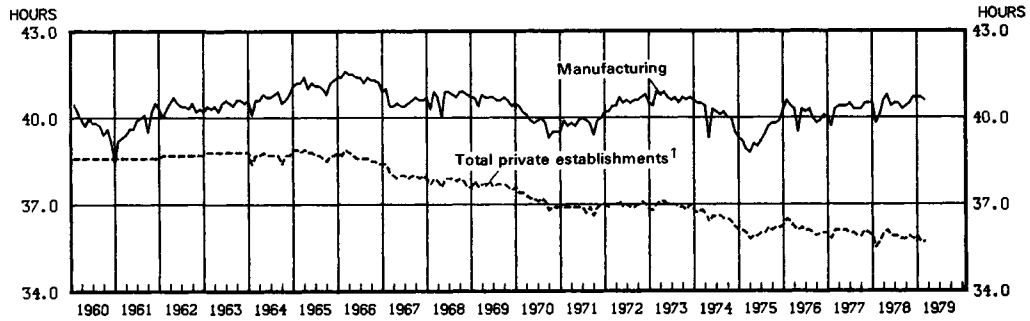
Chart 13. Duration of unemployment

(Seasonally adjusted)

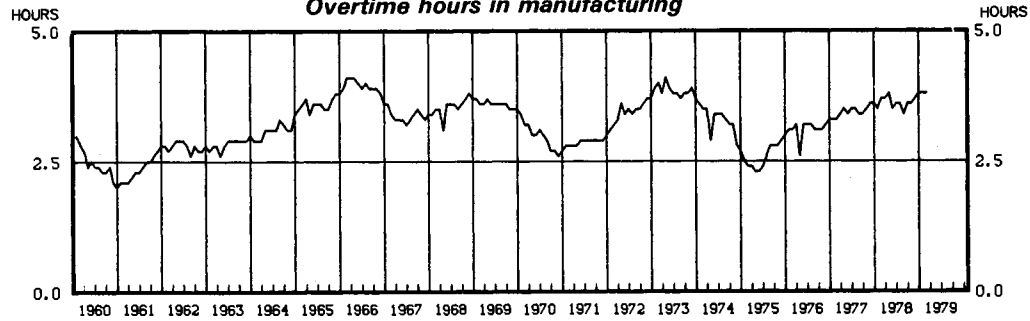


SOURCE: Table A-37.

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



Overtime hours in manufacturing

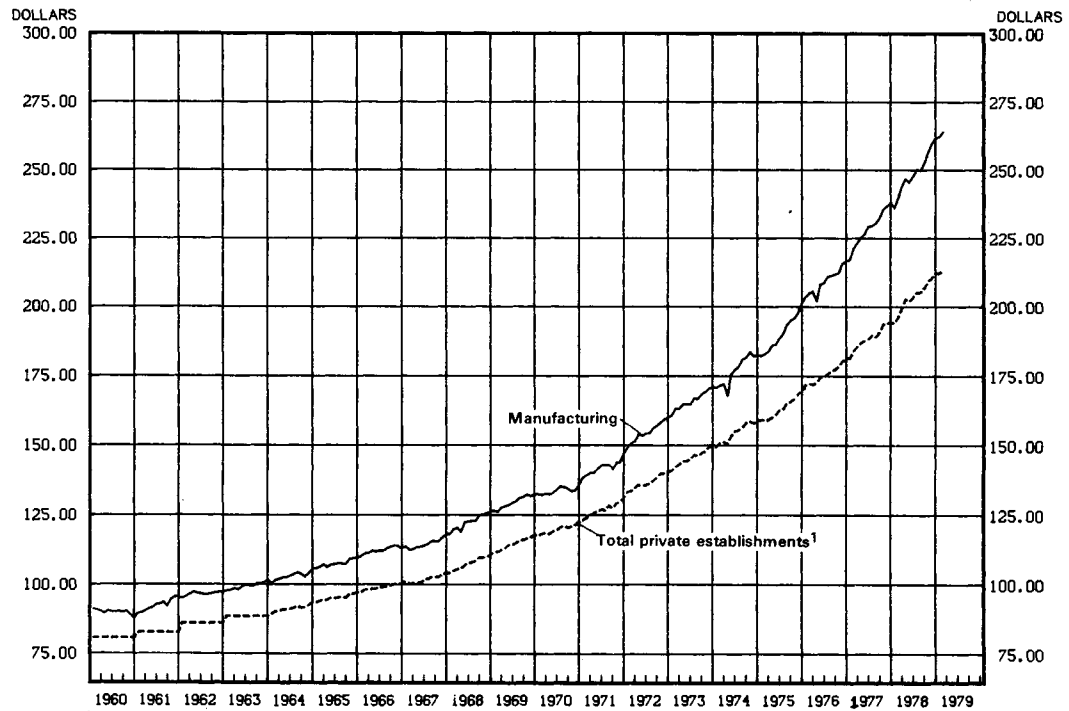


¹Annual averages prior to 1964.

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)

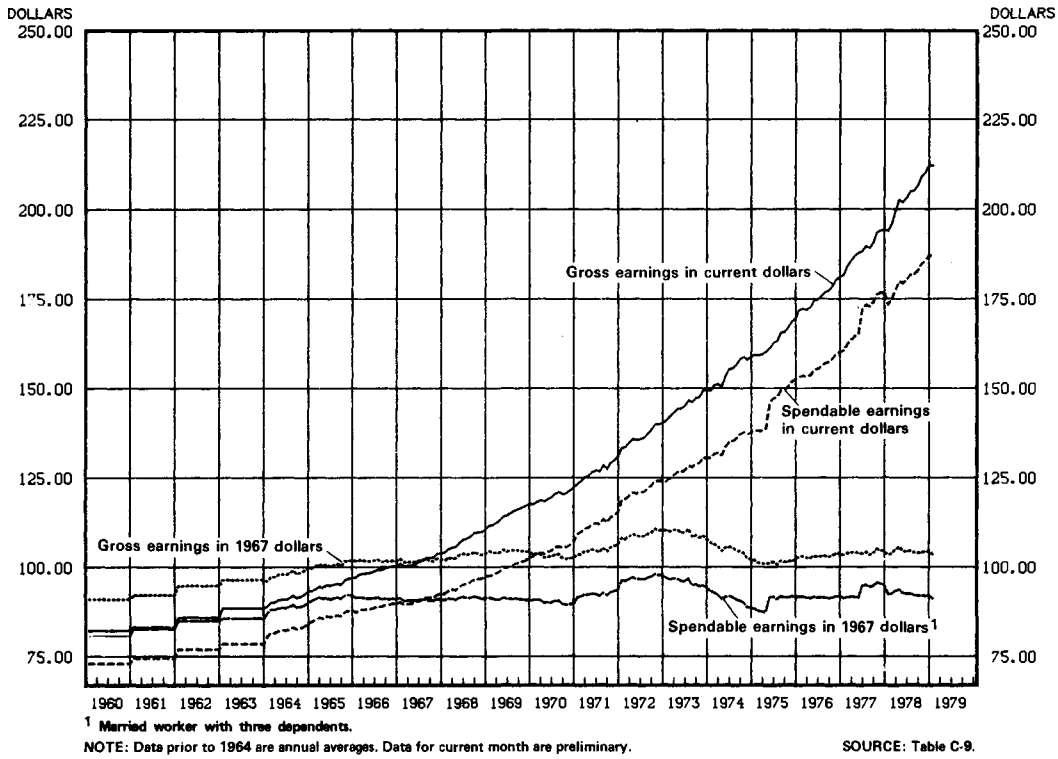
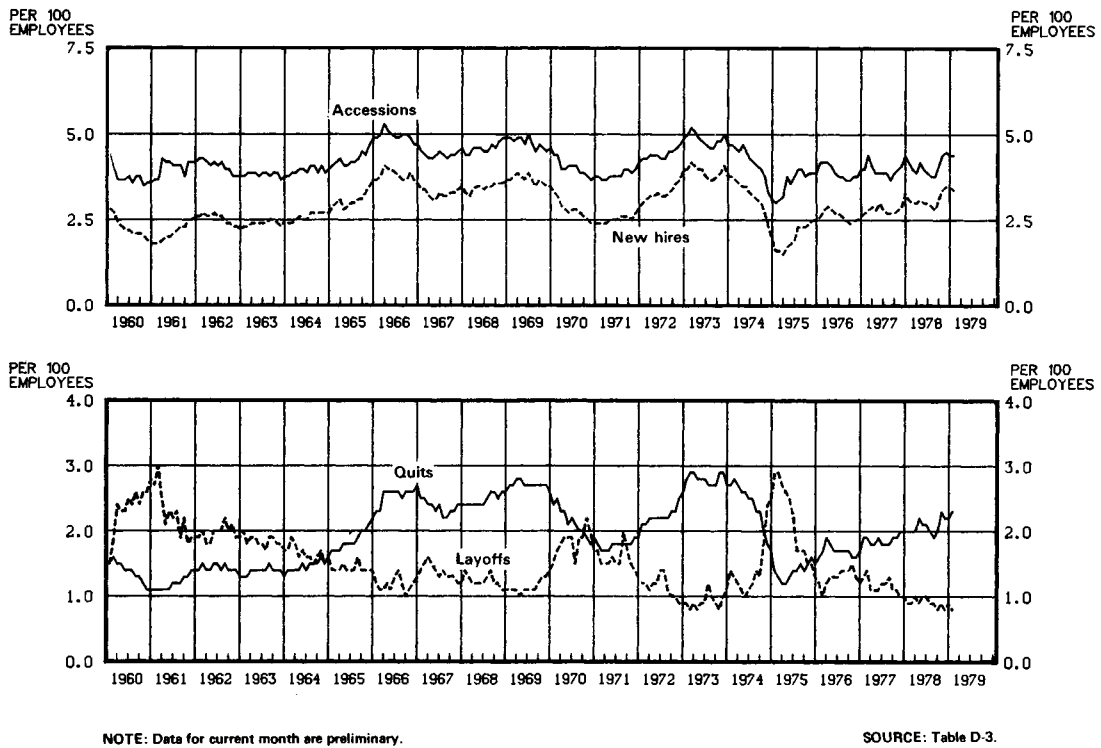


Chart 17. Labor turnover rates in manufacturing
(Seasonally adjusted)



HOUSEHOLD DATA HISTORICAL

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

[Numbers in thousands]

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
Annual averages										
TOTAL										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,656	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	1,863	3.0	43,093
1953 ¹	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,676
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960 ¹	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 ¹	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,593	5.9	55,666
1972 ¹	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 ¹	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,630	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
Monthly data, seasonally adjusted ²										
1978:										
February..	160,128	101,263	63.2	99,139	93,047	3,280	89,767	6,092	6.1	58,865
March....	160,313	101,557	63.3	99,435	93,282	3,334	89,948	6,153	6.2	58,755
April.....	160,504	101,885	63.5	99,767	93,704	3,274	90,430	6,063	6.1	58,619
May.....	160,713	102,222	63.6	100,109	93,953	3,243	90,710	6,156	6.1	58,492
June.....	160,928	102,602	63.8	100,504	94,640	3,424	91,216	5,864	5.8	58,326
July.....	161,148	102,738	63.8	100,622	94,446	3,377	91,069	6,176	6.1	58,410
August...	161,348	102,785	63.7	100,663	94,723	3,351	91,372	5,940	5.9	58,563
September	161,570	103,097	63.8	100,974	95,010	3,406	91,604	5,964	5.9	58,473
October..	161,829	103,199	63.8	101,077	95,241	3,374	91,867	5,836	5.8	58,630
November..	162,033	103,745	64.0	101,628	95,751	3,275	92,476	5,877	5.8	58,288
December..	162,250	103,975	64.1	101,867	95,855	3,387	92,468	6,012	5.9	58,275
1979:										
January..	162,448	104,277	64.2	102,183	96,300	3,232	93,068	5,883	5.8	58,170
February..	162,633	104,621	64.3	102,527	96,647	3,311	93,335	5,881	5.7	58,012

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

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

HOUSEHOLD DATA
HISTORICAL

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1967 to date

[Numbers in thousands]

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force					Not in labor force	
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number		Percent of labor force
Annual averages										
MALES										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,855	1,403	2.8	12,677
1970.....	67,409	54,343	80.6	51,195	48,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972 ¹	69,864	55,671	79.7	53,265	50,630	2,835	47,791	2,635	4.9	14,193
1973 ¹	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977 ¹	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978 ¹	77,165	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
Monthly data, seasonally adjusted ²										
1978:										
February.....	76,725	60,171	78.4	58,164	54,943	2,604	52,339	3,221	5.5	16,555
March.....	76,811	60,278	78.5	58,277	55,042	2,641	52,401	3,235	5.6	16,533
April.....	76,901	60,277	78.4	58,280	55,184	2,596	52,586	3,096	5.3	16,624
May.....	77,000	60,396	78.4	58,404	55,372	2,636	52,736	3,032	5.2	16,604
June.....	77,102	60,555	78.5	58,582	55,766	2,745	53,021	2,816	4.8	16,546
July.....	77,206	60,492	78.4	58,502	55,531	2,718	52,813	2,971	5.1	16,715
August.....	77,301	60,510	78.3	58,517	55,580	2,695	52,885	2,937	5.0	16,792
September.....	77,407	60,552	78.2	58,559	55,594	2,735	52,855	2,965	5.1	16,855
October.....	77,546	60,717	78.3	58,725	55,754	2,707	53,047	2,971	5.1	16,829
November.....	77,643	61,006	78.6	59,019	56,096	2,614	53,482	2,523	5.0	16,636
December.....	77,746	61,095	78.6	59,116	56,072	2,702	53,370	3,044	5.1	16,651
1979:										
January.....	77,839	61,438	78.9	59,475	56,449	2,596	53,854	3,026	5.1	16,401
February.....	77,926	61,501	78.9	59,538	56,549	2,649	53,900	2,989	5.0	16,425
Annual averages										
FEMALES										
1967.....	69,003	28,395	41.2	28,360	26,893	680	26,212	1,468	5.2	40,608
1968.....	70,217	29,242	41.6	29,204	27,807	660	27,147	1,397	4.6	40,976
1969.....	71,476	30,551	42.7	30,513	29,084	643	28,441	1,429	4.7	40,924
1970.....	72,774	31,560	43.4	31,520	29,667	601	29,066	1,853	5.9	41,214
1971.....	74,084	32,132	43.4	32,091	29,875	598	29,277	2,217	6.9	41,952
1972 ¹	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 ¹	77,242	34,561	44.7	34,510	32,446	619	31,827	2,064	6.0	42,681
1974.....	78,575	35,852	45.7	35,825	33,417	592	32,825	2,408	6.7	42,683
1975.....	79,954	37,087	46.4	36,998	33,553	579	32,973	3,445	9.3	42,868
1976.....	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	8.6	42,789
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
1978 ¹	83,890	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,887
Monthly data, seasonally adjusted ²										
1978:										
February.....	83,403	41,092	49.3	40,975	38,104	676	37,428	2,871	7.0	42,311
March.....	83,501	41,280	49.4	41,158	38,240	693	37,547	2,518	7.1	42,222
April.....	83,603	41,608	49.8	41,487	38,520	676	37,844	2,967	7.2	41,995
May.....	83,714	41,826	50.0	41,705	38,581	607	37,974	3,124	7.5	41,888
June.....	83,826	42,047	50.2	41,922	38,874	679	38,195	3,048	7.3	41,779
July.....	83,941	42,246	50.3	42,120	38,915	659	38,256	3,205	7.6	41,695
August.....	84,047	42,276	50.3	42,146	39,143	656	38,487	3,003	7.1	41,772
September.....	84,162	42,545	50.6	42,415	39,416	667	38,749	2,999	7.1	41,618
October.....	84,283	42,482	50.4	42,352	39,487	667	38,820	2,865	6.8	41,601
November.....	84,390	42,738	50.6	42,609	39,655	661	38,994	2,954	6.9	41,652
December.....	84,504	42,880	50.7	42,751	39,783	685	39,098	2,968	6.9	41,624
1979:										
January.....	84,608	42,840	50.6	42,708	39,651	636	39,214	2,857	6.7	41,769
February.....	84,707	43,121	50.9	42,989	40,098	663	39,435	2,891	6.7	41,567

See footnote 1, table A-1.

² See footnote 2, table A-1.

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	February 1979										
	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	60,503	77.6	58,540	55,032	3,508	6.0	17,423	399	4,802	1,752	10,469
16 to 21 years	8,294	65.1	7,620	6,383	1,237	16.2	4,446	15	3,999	21	406
16 to 19 years	4,882	57.8	4,579	3,708	871	19.0	3,568	15	3,271	8	273
16 to 17 years	1,925	45.9	1,906	1,482	423	22.2	2,270	12	2,144	4	110
18 to 19 years	2,957	69.5	2,674	2,226	448	16.7	1,297	3	1,127	4	163
20 to 64 years	53,710	89.6	52,050	49,494	2,556	4.9	6,239	152	1,523	1,260	3,303
20 to 24 years	8,748	85.7	8,011	7,196	815	10.2	1,462	9	1,163	42	248
25 to 54 years	37,822	94.5	36,900	35,402	1,498	4.1	2,184	80	354	659	1,091
25 to 29 years	8,522	94.9	8,158	7,639	519	6.4	456	11	224	56	166
30 to 34 years	7,657	96.0	7,415	7,126	289	3.9	322	11	76	71	165
35 to 39 years	6,249	96.5	6,058	5,879	180	3.0	225	9	20	72	123
40 to 44 years	5,235	95.0	5,148	4,978	170	3.3	277	3	14	108	152
45 to 49 years	5,122	94.1	5,091	4,917	174	3.4	320	25	12	121	162
50 to 54 years	5,036	89.6	5,030	4,862	167	3.3	584	21	9	231	323
55 to 64 years	7,140	73.4	7,139	6,895	243	3.4	2,593	63	6	560	1,964
55 to 59 years	4,385	82.2	4,384	4,245	139	3.2	952	24	3	289	636
60 to 64 years	2,754	62.7	2,754	2,650	104	3.8	1,641	39	3	271	1,328
65 years and over	1,911	20.1	1,911	1,830	81	4.2	7,616	232	8	484	6,893
65 to 69 years	1,129	29.9	1,129	1,081	48	4.2	2,642	58	4	190	2,391
70 years and over	782	13.6	782	749	33	4.2	4,974	175	4	294	4,502
White											
16 years and over	53,803	78.4	52,238	49,504	2,734	5.2	14,859	322	3,880	1,406	9,251
16 to 21 years	7,244	66.9	6,720	5,754	966	14.4	3,590	15	3,249	19	307
16 to 19 years	4,309	60.2	4,075	3,391	683	16.8	2,852	11	2,612	8	220
16 to 17 years	1,735	49.0	1,719	1,374	344	20.0	1,803	10	1,697	4	92
18 to 19 years	2,574	71.0	2,356	2,017	339	14.4	1,049	2	915	4	128
20 to 64 years	47,742	90.2	46,412	44,434	1,979	4.3	5,178	112	1,260	1,000	2,806
20 to 24 years	7,581	86.3	7,010	6,394	616	8.8	1,205	9	986	34	176
25 to 54 years	33,646	95.2	32,889	31,731	1,158	3.5	1,685	58	268	499	859
25 to 29 years	14,314	96.1	13,823	13,215	608	4.4	582	17	226	93	247
30 to 34 years	10,240	96.5	10,007	9,739	267	2.7	367	6	26	130	205
35 to 44 years	9,092	92.5	9,059	8,776	283	3.1	736	35	17	276	407
55 to 64 years	6,514	74.0	6,513	6,309	204	3.1	2,287	45	6	467	1,770
55 to 59 years	3,996	83.0	3,995	3,681	114	2.9	816	14	3	236	563
60 to 64 years	2,519	63.1	2,519	2,428	90	3.6	1,472	31	3	231	1,207
65 years and over	1,751	20.4	1,751	1,679	72	4.1	6,829	199	8	397	6,225
Black and other											
16 years and over	6,700	72.3	6,302	5,528	773	12.3	2,564	77	922	347	1,218
16 to 21 years	1,050	55.1	900	629	271	30.1	856	4	750	3	99
16 to 19 years	573	44.4	504	317	188	37.2	716	3	659	--	53
16 to 17 years	190	28.9	187	108	79	42.2	467	2	447	--	18
18 to 19 years	383	60.7	318	209	109	34.2	248	1	212	--	35
20 to 64 years	5,967	84.9	5,637	5,060	578	10.3	1,061	40	263	261	497
20 to 24 years	1,167	82.0	1,001	802	199	19.9	257	--	177	8	72
25 to 54 years	4,175	89.3	4,010	3,672	340	8.5	498	22	86	159	232
25 to 29 years	1,865	90.5	1,749	1,550	199	11.4	195	5	73	34	84
30 to 34 years	1,244	90.3	1,200	1,118	82	6.8	134	6	9	50	70
35 to 44 years	1,066	86.3	1,062	1,004	58	5.5	169	11	4	76	78
55 to 64 years	625	67.2	625	586	39	6.3	305	18	--	93	194
55 to 59 years	390	74.0	390	364	25	6.5	137	10	--	54	73
60 to 64 years	236	58.3	236	222	14	5.9	169	8	--	39	121
65 years and over	160	16.9	160	151	8	5.2	788	34	--	86	668

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	February 1975										
	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	42,840	50.6	42,709	39,733	2,976	7.0	41,867	32,226	4,603	1,149	3,888
16 to 21 years	6,969	55.8	6,916	5,972	944	13.6	5,511	1,297	3,873	27	314
16 to 19 years	4,207	50.9	4,184	3,540	644	15.4	4,060	570	3,274	16	200
16 to 17 years	1,719	42.3	1,718	1,425	293	17.1	2,344	135	2,113	3	92
18 to 19 years	2,488	59.2	2,466	2,115	351	14.2	1,717	435	1,161	13	108
20 to 64 years	37,462	59.6	37,353	35,077	2,276	6.1	25,383	21,853	1,326	509	1,695
20 to 24 years	6,963	68.3	6,896	6,232	664	9.6	3,232	2,046	916	28	241
25 to 54 years	25,893	62.0	25,851	24,397	1,454	5.6	15,883	14,397	399	255	832
25 to 29 years	5,979	65.4	5,949	5,476	473	8.0	3,166	2,844	164	24	133
30 to 34 years	5,074	62.0	5,066	4,759	306	6.0	3,113	2,833	112	27	141
35 to 39 years	4,245	62.4	4,242	4,028	214	5.1	2,563	2,346	63	29	126
40 to 44 years	3,684	63.1	3,683	3,518	165	4.5	2,152	1,954	32	40	125
45 to 49 years	3,439	59.9	3,438	3,292	146	4.3	2,306	2,119	19	41	126
50 to 54 years	3,473	57.3	3,472	3,324	149	4.3	2,583	2,301	8	94	181
55 to 64 years	4,606	42.4	4,606	4,448	158	3.4	6,268	5,410	10	226	622
55 to 59 years	2,865	48.9	2,865	2,753	112	3.9	2,998	2,607	7	114	270
60 to 64 years	1,741	34.7	1,741	1,695	46	2.6	3,270	2,803	3	112	352
65 years and over	1,172	8.6	1,172	1,116	56	4.7	12,424	9,803	4	624	1,993
65 to 69 years	728	15.4	728	684	44	6.1	3,995	3,327	4	122	541
70 years and over	443	5.0	443	432	11	2.6	6,429	6,475	1	501	1,451
White											
16 years and over	37,080	50.2	36,977	34,733	2,244	6.1	36,751	28,885	3,688	857	3,320
16 to 21 years	6,117	58.1	6,074	5,367	708	11.6	4,404	1,029	3,122	18	236
16 to 19 years	3,739	53.8	3,721	3,230	491	13.2	3,215	447	2,613	10	145
16 to 17 years	1,544	45.3	1,543	1,317	226	14.7	1,863	102	1,689	3	69
18 to 19 years	2,195	61.9	2,178	1,913	265	12.2	1,352	346	924	6	77
20 to 64 years	32,313	59.2	32,228	30,520	1,708	5.3	22,239	19,379	1,072	374	1,414
20 to 24 years	6,012	69.7	5,960	5,483	477	8.0	2,619	1,671	751	22	174
25 to 54 years	22,172	61.3	22,139	21,029	1,110	5.0	13,975	12,794	311	185	684
25 to 29 years	9,366	63.0	9,337	8,779	558	6.0	5,493	5,023	203	41	225
30 to 34 years	6,792	62.1	6,789	6,477	311	4.6	4,142	3,814	85	48	195
35 to 54 years	6,014	58.1	6,013	5,773	240	4.0	4,341	3,957	24	96	264
55 to 64 years	4,129	42.2	4,129	4,007	122	2.9	5,645	4,913	9	167	556
55 to 59 years	2,566	48.9	2,566	2,482	84	3.3	2,685	2,363	7	84	232
60 to 64 years	1,563	34.6	1,563	1,526	37	2.4	2,960	2,551	3	83	324
65 years and over	1,026	8.3	1,028	984	44	4.3	11,297	9,059	3	474	1,761
Black and other											
16 years and over	5,760	53.0	5,732	4,999	732	12.8	5,116	3,341	915	292	568
16 to 21 years	852	43.5	841	605	236	28.1	1,107	268	751	9	79
16 to 19 years	468	35.6	463	310	153	33.0	645	123	661	7	55
16 to 17 years	175	26.7	175	108	67	38.1	481	34	424	--	23
18 to 19 years	293	44.6	288	202	86	29.9	364	89	237	7	31
20 to 64 years	5,149	62.1	5,125	4,557	567	11.1	3,144	2,474	252	135	282
20 to 24 years	951	60.8	936	749	187	20.0	613	375	165	6	67
25 to 54 years	3,721	66.1	3,712	3,368	344	9.3	1,908	1,602	87	70	148
25 to 29 years	1,686	68.2	1,678	1,456	222	13.2	787	654	73	10	49
30 to 34 years	1,137	66.5	1,137	1,069	68	6.0	573	486	10	20	56
35 to 54 years	898	62.1	897	842	55	6.1	548	463	3	39	43
55 to 64 years	477	43.4	477	441	37	7.7	623	497	1	59	66
55 to 59 years	299	48.9	299	271	28	9.4	313	245	1	30	38
60 to 64 years	178	36.5	178	169	9	4.8	310	252	--	29	28
65 years and over	144	11.3	144	132	12	8.2	1,127	744	2	150	232

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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. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
MALES								
16 years and over	59,260	60,503	77.2	77.6	57,253	58,540	76.6	77.1
16 to 19 years	4,864	4,882	57.3	57.8	4,541	4,579	55.6	56.2
16 to 17 years	1,913	1,925	45.1	45.9	1,880	1,906	44.7	45.6
18 to 19 years	2,950	2,957	69.5	69.5	2,661	2,674	67.3	67.3
20 to 24 years	8,494	8,748	84.4	85.7	7,749	8,011	83.2	84.6
25 to 54 years	37,026	37,822	94.3	94.5	36,089	36,900	94.2	94.4
25 to 34 years	15,704	16,179	95.3	95.4	15,090	15,573	95.1	95.2
35 to 44 years	11,123	11,484	95.8	95.8	10,840	11,206	95.6	95.7
45 to 54 years	10,198	10,158	91.4	91.8	10,159	10,121	91.3	91.8
55 to 64 years	7,028	7,140	73.2	73.4	7,026	7,139	73.2	73.4
55 to 59 years	4,354	4,385	82.8	82.2	4,353	4,384	82.7	82.2
60 to 64 years	2,673	2,754	61.6	62.7	2,673	2,754	61.6	62.7
65 years and over	1,849	1,911	19.8	20.1	1,849	1,911	19.8	20.1
White								
16 years and over	52,785	53,803	77.9	78.4	51,144	52,238	77.4	77.9
16 to 19 years	4,303	4,309	59.7	60.2	4,040	4,075	58.2	58.8
16 to 17 years	1,732	1,735	48.3	49.0	1,705	1,719	47.9	48.8
18 to 19 years	2,571	2,574	71.0	71.0	2,335	2,356	69.0	69.2
20 to 24 years	7,410	7,581	85.4	86.3	6,818	7,010	84.3	85.3
25 to 54 years	32,979	33,646	94.9	95.2	32,194	32,889	94.8	95.1
25 to 34 years	13,921	14,314	95.9	96.1	13,412	13,823	95.7	96.0
35 to 44 years	9,899	10,240	96.3	96.5	9,658	10,007	96.2	96.5
45 to 54 years	9,159	9,092	92.1	92.5	9,124	9,059	92.1	92.5
55 to 64 years	6,424	6,514	73.9	74.0	6,423	6,513	73.9	74.0
55 to 59 years	3,967	3,996	83.5	83.0	3,966	3,995	83.5	83.0
60 to 64 years	2,457	2,519	62.3	63.1	2,457	2,519	62.3	63.1
65 years and over	1,669	1,751	19.9	20.4	1,669	1,751	19.9	20.4
Black and other								
16 years and over	6,475	6,700	71.9	72.3	6,110	6,302	70.7	71.1
16 to 19 years	561	573	44.0	44.4	501	504	41.2	41.3
16 to 17 years	181	190	27.7	28.9	175	187	27.0	28.5
18 to 19 years	380	383	61.0	60.7	326	318	57.3	56.1
20 to 24 years	1,083	1,167	78.6	82.0	931	1,001	76.0	79.6
25 to 54 years	4,047	4,175	89.5	89.3	3,894	4,010	89.1	88.9
25 to 34 years	1,783	1,865	90.8	90.5	1,676	1,749	90.3	90.0
35 to 44 years	1,225	1,244	91.3	90.3	1,181	1,200	91.0	89.9
45 to 54 years	1,039	1,066	85.3	86.3	1,035	1,062	85.3	86.3
55 to 64 years	604	625	66.6	67.2	604	625	66.6	67.2
55 to 59 years	387	390	75.5	74.0	387	390	75.5	74.0
60 to 64 years	217	236	54.9	58.3	217	236	54.9	58.3
65 years and over	180	160	19.6	16.9	180	160	19.6	16.9

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. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
FEMALES								
16 years and over	40,788	42,840	48.9	50.6	40,671	42,709	48.8	50.5
16 to 19 years	3,956	4,207	47.6	50.9	3,936	4,164	47.5	50.8
16 to 17 years	1,566	1,719	38.6	42.3	1,585	1,718	38.6	42.3
18 to 19 years	2,370	2,488	56.4	59.2	2,353	2,466	56.3	59.0
20 to 24 years	6,651	6,963	66.2	68.3	6,587	6,896	66.0	68.1
25 to 54 years	24,619	25,893	60.0	62.0	24,564	25,851	60.0	61.9
25 to 34 years	10,333	11,052	61.3	63.8	10,302	11,015	61.2	63.7
35 to 44 years	7,514	7,929	61.3	62.7	7,510	7,925	61.3	62.7
45 to 54 years	6,772	6,911	56.8	58.6	6,771	6,911	56.8	58.6
55 to 64 years	4,460	4,606	41.6	42.4	4,460	4,606	41.6	42.4
55 to 59 years	2,812	2,865	48.6	48.9	2,812	2,865	48.6	48.9
60 to 64 years	1,648	1,741	33.3	34.7	1,648	1,741	33.3	34.7
65 years and over	1,102	1,172	8.3	8.6	1,102	1,172	8.3	8.6
White								
16 years and over	35,296	37,080	48.5	50.2	35,201	36,977	48.4	50.2
16 to 19 years	3,552	3,739	50.7	53.8	3,537	3,721	50.6	53.6
16 to 17 years	1,451	1,544	42.0	45.3	1,450	1,543	42.0	45.3
18 to 19 years	2,102	2,195	59.2	61.9	2,087	2,178	59.0	61.7
20 to 24 years	5,740	6,012	67.3	69.7	5,689	5,960	67.1	69.5
25 to 54 years	21,010	22,172	59.0	61.3	20,982	22,139	59.0	61.3
25 to 34 years	8,726	9,366	60.2	63.0	8,702	9,337	60.1	63.0
35 to 44 years	6,386	6,792	60.3	62.1	6,383	6,789	60.3	62.1
45 to 54 years	5,899	6,014	56.1	58.1	5,898	6,013	56.1	58.1
55 to 64 years	4,019	4,129	41.6	42.2	4,019	4,129	41.6	42.2
55 to 59 years	2,540	2,566	48.9	48.9	2,540	2,566	48.9	48.9
60 to 64 years	1,479	1,563	33.1	34.6	1,479	1,563	33.1	34.6
65 years and over	974	1,028	8.1	8.3	974	1,028	8.1	8.3
Black and other								
16 years and over	5,492	5,760	52.0	53.0	5,470	5,732	51.9	52.8
16 to 19 years	404	468	31.0	35.6	401	463	30.9	35.4
16 to 17 years	136	175	20.7	26.7	136	175	20.7	26.6
18 to 19 years	269	293	41.4	44.6	266	288	41.2	44.2
20 to 24 years	911	951	60.2	60.8	898	936	59.8	60.4
25 to 54 years	3,608	3,721	66.3	66.1	3,602	3,712	66.3	66.1
25 to 34 years	1,607	1,686	68.2	68.2	1,601	1,678	68.1	68.1
35 to 44 years	1,128	1,137	68.0	66.5	1,128	1,137	68.0	66.5
45 to 54 years	873	858	61.3	62.1	873	897	61.3	62.1
55 to 64 years	441	477	41.2	43.4	441	477	41.2	43.4
55 to 59 years	272	299	45.9	48.9	272	299	45.9	48.9
60 to 64 years	169	178	35.5	36.5	169	178	35.5	36.5
65 years and over	127	144	10.4	11.3	127	144	10.4	11.3

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

[Numbers in thousands]

Sex and age	February 1975						Not in labor force	
	Civilian labor force							
	Total	Employed			Unemployed			
		Total	Agriculture	Nonagricultural industries	Number			Percent of labor force
TOTAL								
16 years and over	10,241	8,846	196	8,650	1,394	13.6	6,643	
16 to 19 years	834	515	5	510	316	38.2	1,385	
16 to 17 years	305	173	3	170	132	43.3	851	
18 to 19 years	529	342	2	340	186	35.2	534	
20 to 24 years	1,677	1,310	9	1,302	367	21.9	734	
25 to 54 years	6,515	5,892	133	5,759	623	9.6	1,991	
25 to 34 years	2,876	2,498	37	2,462	378	13.1	766	
35 to 44 years	1,986	1,846	59	1,787	140	7.0	600	
45 to 54 years	1,652	1,547	37	1,510	105	6.4	624	
55 to 64 years	957	885	32	853	72	7.5	839	
55 to 59 years	585	536	18	518	49	8.4	398	
60 to 64 years	371	349	14	334	23	6.1	441	
65 years and over	258	244	18	226	14	5.3	1,695	
Males								
16 years and over	5,337	4,618	181	4,437	718	13.5	2,238	
16 to 19 years	441	265	5	259	175	39.7	630	
16 to 17 years	159	88	3	84	71	44.7	421	
18 to 19 years	282	177	2	175	104	36.9	209	
20 to 24 years	862	674	8	667	188	21.8	210	
25 to 54 years	3,373	3,062	120	2,942	310	9.2	430	
25 to 34 years	1,453	1,273	31	1,243	180	12.4	157	
35 to 44 years	1,019	943	58	885	77	7.6	119	
45 to 54 years	899	846	32	814	53	5.9	153	
55 to 64 years	532	494	32	462	39	7.3	287	
55 to 59 years	324	300	17	283	24	7.4	126	
60 to 64 years	207	194	14	176	14	6.8	161	
65 years and over	130	123	16	107	7	5.4	683	
Females								
16 years and over	4,904	4,228	15	4,213	676	13.8	4,405	
16 to 19 years	393	250	--	251	143	36.4	755	
16 to 17 years	146	85	--	86	61	41.9	430	
18 to 19 years	247	165	--	165	82	33.2	325	
20 to 24 years	815	636	1	635	179	22.0	524	
25 to 54 years	3,142	2,830	13	2,817	313	10.0	1,561	
25 to 34 years	1,423	1,225	6	1,219	198	13.9	609	
35 to 44 years	967	903	1	902	63	6.5	481	
45 to 54 years	753	701	5	696	52	6.9	471	
55 to 64 years	425	391	--	391	33	7.9	552	
55 to 59 years	261	236	1	235	25	9.5	272	
60 to 64 years	164	155	--	156	9	5.3	280	
65 years and over	128	121	2	119	7	5.6	1,012	

NOTE: According to the 1970 Census, black workers comprised 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. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
TOTAL								
Total noninstitutional population	160,128	162,633	68,240	69,476	75,095	76,440	16,794	16,717
Total labor force	100,048	103,343	54,396	55,621	36,832	38,634	8,820	9,089
Percent of population	62.5	63.5	79.7	80.1	49.0	50.5	52.5	54.4
Civilian labor force	97,924	101,249	52,713	53,961	36,733	38,525	8,479	8,763
Employed	91,185	94,765	49,805	51,324	34,470	36,153	6,909	7,248
Agriculture	2,771	2,796	2,105	2,117	437	442	229	238
Nonagricultural industries	88,413	91,969	47,700	49,207	34,033	35,751	6,680	7,011
Unemployed	6,739	6,484	2,907	2,637	2,262	2,332	1,570	1,515
Percent of labor force	6.9	6.4	5.5	4.9	6.2	6.1	18.5	17.3
Not in labor force	60,080	59,290	13,843	13,855	38,263	37,807	7,974	7,628
White								
Total noninstitutional population	140,571	142,493	60,513	61,500	65,842	66,877	14,216	14,116
Total labor force	88,081	90,883	48,482	49,493	31,744	33,341	7,855	8,049
Percent of population	62.7	63.8	80.1	80.5	48.2	49.9	55.3	57.0
Civilian labor force	86,344	89,215	47,104	48,163	31,664	33,256	7,577	7,796
Employed	81,061	84,237	44,778	46,113	29,931	31,504	6,352	6,621
Agriculture	2,514	2,551	1,878	1,905	414	419	221	228
Nonagricultural industries	78,547	81,687	42,899	44,208	29,517	31,085	6,131	6,394
Unemployed	5,284	4,978	2,326	2,051	1,733	1,752	1,225	1,175
Percent of labor force	6.1	5.6	4.9	4.3	5.5	5.3	16.2	15.1
Not in labor force	52,490	51,610	12,030	12,007	34,098	33,536	6,361	6,067
Black and other								
Total noninstitutional population	19,558	20,140	7,727	7,976	9,253	9,564	2,578	2,601
Total labor force	11,967	12,460	5,914	6,127	5,088	5,293	965	1,040
Percent of population	61.2	61.9	76.5	76.8	55.0	55.3	37.4	40.0
Civilian labor force	11,580	12,033	5,609	5,797	5,069	5,269	902	967
Employed	10,124	10,527	5,028	5,211	4,539	4,689	557	627
Agriculture	258	246	227	212	23	24	8	10
Nonagricultural industries	9,866	10,282	4,801	4,999	4,516	4,666	550	617
Unemployed	1,455	1,506	581	586	529	579	345	340
Percent of labor force	12.6	12.5	10.4	10.1	10.4	11.0	38.3	35.2
Not in labor force	7,591	7,680	1,813	1,849	4,165	4,271	1,613	1,561

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

(Numbers in thousands)

Employment status	February 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	25,220	12,740	12,480	21,354	10,834	10,520	3,866	1,907	1,959
Total labor force	15,263	8,294	6,969	13,360	7,244	6,117	1,903	1,050	852
Percent of population	60.5	65.1	55.8	62.6	66.9	58.1	49.2	55.1	43.5
Civilian labor force	14,536	7,620	6,916	12,794	6,720	6,074	1,742	900	841
Employed	12,355	6,383	5,972	11,121	5,754	5,367	1,234	629	605
Agriculture	351	301	50	341	288	52	11	13	--
Nonagricultural industries	12,004	6,082	5,922	10,780	5,465	5,315	1,224	616	607
Unemployed	2,181	1,237	944	1,674	966	708	507	271	236
Looking for full-time work	1,300	761	538	977	588	389	323	173	150
Looking for part-time work	881	475	406	697	378	319	184	96	87
Percent of labor force	15.0	16.2	13.6	13.1	14.4	11.6	29.1	30.1	28.1
Not in labor force	9,957	4,446	5,511	7,994	3,590	4,404	1,963	856	1,107
Major activity: going to school									
Civilian labor force	4,504	2,328	2,176	4,027	2,092	1,936	477	237	240
Employed	3,686	1,864	1,822	3,378	1,726	1,653	308	138	170
Agriculture	129	110	20	128	109	20	1	1	--
Nonagricultural industries	3,556	1,754	1,802	3,250	1,617	1,633	307	137	170
Unemployed	819	465	354	649	366	283	169	99	71
Looking for full-time work	70	37	32	52	25	26	18	12	6
Looking for part-time work	749	427	322	598	341	257	151	86	65
Percent of labor force	18.2	20.0	16.3	16.1	17.5	14.6	35.5	41.7	29.4
Not in labor force	7,872	3,999	3,873	6,371	3,249	3,122	1,501	750	751
Major activity: other									
Civilian labor force	10,032	5,292	4,740	8,767	4,628	4,139	1,265	663	601
Employed	8,669	4,520	4,150	7,743	4,028	3,714	927	491	436
Agriculture	222	192	30	212	180	32	10	12	--
Nonagricultural industries	8,448	4,328	4,120	7,530	3,848	3,682	917	479	438
Unemployed	1,362	772	590	1,025	600	425	338	172	166
Looking for full-time work	1,230	724	506	925	563	362	305	161	144
Looking for part-time work	132	48	84	99	37	62	33	11	22
Percent of labor force	13.6	14.6	12.4	11.7	13.0	10.3	26.7	26.0	27.5
Not in labor force	2,085	447	1,638	1,623	341	1,282	462	106	356

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

[Numbers in thousands]

Race, sex, and age	February 1979								
	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.....	85,385	77,127	3,228	5,030	5.9	15,864	14,410	1,454	9.2
16 to 21 years.....	8,623	6,611	713	1,300	15.1	5,913	5,032	881	14.9
16 to 19 years.....	4,002	2,859	403	740	18.5	4,761	3,986	776	16.3
16 to 17 years.....	634	377	91	165	26.1	2,989	2,438	551	18.4
18 to 19 years.....	3,368	2,482	312	574	17.1	1,772	1,548	224	12.7
20 years and over.....	81,383	74,268	2,825	4,290	5.3	11,103	10,424	678	6.1
20 to 24 years.....	12,693	10,746	671	1,276	10.1	2,215	2,012	203	9.2
25 years and over.....	68,690	63,522	2,154	3,014	4.4	8,888	8,413	475	5.3
25 to 54 years.....	56,707	52,367	1,727	2,613	4.6	6,044	5,705	338	5.6
55 years and over.....	11,982	11,155	428	401	3.3	2,844	2,708	137	4.8
Males, 16 years and over.....	53,374	49,099	1,385	2,889	5.4	5,166	4,548	618	12.0
16 to 21 years.....	4,765	3,671	333	761	16.0	2,855	2,379	475	16.7
16 to 19 years.....	2,226	1,590	194	442	19.9	2,353	1,924	429	18.2
20 years and over.....	51,148	47,509	1,191	2,448	4.8	2,813	2,623	189	6.7
20 to 24 years.....	7,134	6,081	310	743	10.4	877	806	72	8.2
25 years and over.....	44,015	41,429	881	1,704	3.9	1,935	1,817	117	6.0
25 to 54 years.....	36,161	34,014	706	1,442	4.0	740	682	56	7.6
55 years and over.....	7,854	7,415	175	263	3.3	1,196	1,135	61	5.1
Females, 16 years and over.....	32,011	28,028	1,842	2,141	6.7	10,698	9,863	835	7.8
16 to 21 years.....	3,858	2,940	380	538	14.0	3,058	2,653	406	13.3
16 to 19 years.....	1,776	1,269	209	298	16.8	2,408	2,062	346	14.4
20 years and over.....	30,235	26,758	1,634	1,843	6.1	8,290	7,801	489	5.9
20 to 24 years.....	5,559	4,665	361	533	9.6	1,337	1,206	131	9.8
25 years and over.....	24,676	22,093	1,272	1,309	5.3	6,953	6,595	358	5.1
25 to 54 years.....	20,546	18,354	1,021	1,172	5.7	5,304	5,023	282	5.3
55 years and over.....	4,129	3,740	252	137	3.3	1,649	1,573	76	4.6
White									
Males, 16 years and over.....	47,646	44,222	1,183	2,242	4.7	4,592	4,100	492	10.7
16 to 21 years.....	4,161	3,283	289	588	14.1	2,559	2,182	378	14.8
16 to 19 years.....	1,957	1,438	172	347	17.7	2,118	1,782	336	15.9
20 years and over.....	45,689	42,784	1,010	1,895	4.1	2,474	2,318	156	6.3
20 to 24 years.....	6,242	5,422	267	553	8.9	768	705	63	8.2
25 years and over.....	39,446	37,362	743	1,342	3.4	1,707	1,613	93	5.4
25 to 54 years.....	32,290	30,566	605	1,120	3.5	599	560	39	6.5
55 years and over.....	7,156	6,796	138	222	3.1	1,108	1,053	54	4.9
Females, 16 years and over.....	27,256	24,188	1,502	1,565	5.7	9,721	9,043	678	7.0
16 to 21 years.....	3,340	2,630	322	389	11.6	2,734	2,415	319	11.7
16 to 19 years.....	1,567	1,157	192	218	13.9	2,154	1,881	273	12.7
20 years and over.....	25,689	23,031	1,311	1,347	5.2	7,567	7,162	405	5.3
20 to 24 years.....	4,779	4,121	284	374	7.8	1,181	1,078	103	8.7
25 years and over.....	20,909	18,910	1,027	973	4.7	6,386	6,085	302	4.7
25 to 54 years.....	17,202	15,507	823	872	5.1	4,937	4,699	238	4.8
55 years and over.....	3,707	3,403	204	101	2.7	1,449	1,386	64	4.4
Black and other									
Males, 16 years and over.....	5,728	4,877	203	648	11.3	574	448	126	21.9
16 to 21 years.....	605	388	44	173	28.6	295	198	98	33.1
16 to 19 years.....	269	152	22	95	35.2	235	143	93	39.4
20 years and over.....	5,459	4,725	181	553	10.1	338	305	33	9.8
20 to 24 years.....	892	659	43	190	21.3	110	101	9	8.2
25 years and over.....	4,567	4,067	138	363	7.9	229	204	25	10.9
25 to 54 years.....	3,870	3,447	101	322	8.3	140	122	18	12.9
55 years and over.....	697	619	37	42	6.0	88	82	6	6.8
Females, 16 years and over.....	4,755	3,840	340	575	12.1	977	820	157	16.1
16 to 21 years.....	517	310	58	150	29.0	324	238	87	26.7
16 to 19 years.....	209	112	17	80	38.2	254	181	73	28.8
20 years and over.....	4,546	3,728	323	495	10.9	723	639	84	11.6
20 to 24 years.....	780	544	77	159	20.4	156	128	28	18.0
25 years and over.....	3,767	3,183	246	336	8.9	566	511	56	9.9
25 to 54 years.....	3,345	2,846	198	300	9.0	367	324	44	12.0
55 years and over.....	421	337	49	36	8.6	199	187	12	6.0

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 1979									
	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	101,249	63.1	94,765	6,484	6.4	59,290	32,626	9,406	2,902	14,357
Husbands¹	40,905	81.6	39,533	1,372	3.4	9,208	185	240	1,185	7,597
With employed wife	20,562	91.6	19,988	573	2.8	1,880	41	142	370	1,326
With unemployed wife	1,150	93.0	1,004	146	12.7	86	4	2	32	46
With wife not in labor force	17,558	72.3	16,973	585	3.3	6,739	101	74	712	5,852
Wives	23,677	49.4	22,441	1,236	5.2	24,297	22,293	289	273	1,442
With employed husband	20,993	55.3	19,989	1,005	4.8	16,973	15,890	250	99	733
With unemployed husband	719	55.1	573	146	20.3	585	549	11	2	23
With husband not in labor force	1,965	22.6	1,879	86	4.4	6,739	5,855	28	171	686
Relatives in husband-wife families	13,581	58.9	11,808	1,773	13.1	9,485	1,307	6,572	381	1,225
16-19 years	6,279	52.9	5,314	965	15.4	5,584	152	5,115	17	300
20-24 years	4,683	72.8	4,135	548	11.7	1,746	161	1,349	41	194
25 years and over	2,619	54.9	2,359	260	9.9	2,155	994	108	323	731
Women who head families	4,972	59.1	4,539	433	8.7	3,445	2,822	113	165	344
Relatives in female-headed families	3,925	54.0	3,191	734	18.7	3,339	797	1,520	298	724
16-19 years	1,283	47.9	921	363	28.3	1,398	72	1,198	6	122
20-24 years	1,193	71.8	991	202	16.9	469	89	274	17	89
25 years and over	1,449	49.6	1,279	169	11.7	1,472	636	48	275	513
Persons not living in families²	14,189	59.9	13,253	936	6.6	9,516	5,222	672	600	3,025

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

Marital status, sex, age, and race	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
Total, 16 years and over	3,788	3,508	6.6	6.0	2,952	2,976	7.3	7.0
Married, spouse present	1,484	1,366	3.8	3.4	1,298	1,297	5.7	5.4
Widowed, divorced, or separated	358	325	8.2	7.2	563	579	7.3	7.3
Single (never married)	1,945	1,817	14.6	13.0	1,091	1,100	10.9	10.1
White, 16 years and over	3,019	2,734	5.9	5.2	2,265	2,244	6.4	6.1
Married, spouse present	1,278	1,139	3.6	3.1	1,059	1,089	5.2	5.1
Widowed, divorced, or separated	261	239	7.4	6.6	416	413	6.6	6.5
Single (never married)	1,480	1,356	12.7	11.2	790	741	9.2	8.1
Black and other, 16 years and over	769	773	12.6	12.3	686	732	12.5	12.8
Married, spouse present	206	226	5.8	6.4	238	208	9.8	8.5
Widowed, divorced, or separated	97	86	11.9	9.7	146	166	9.4	10.6
Single (never married)	465	461	26.7	24.7	302	359	20.4	20.8
Total, 20 to 64 years of age	2,817	2,556	5.5	4.9	2,222	2,276	6.2	6.1
Married, spouse present	1,399	1,290	3.7	3.4	1,222	1,210	5.5	5.2
Widowed, divorced, or separated	329	301	8.0	7.1	523	531	7.5	7.3
Single (never married)	1,089	965	12.2	10.2	476	535	7.4	7.7
White, 20 to 64 years of age	2,247	1,979	4.9	4.3	1,698	1,708	5.5	5.3
Married, spouse present	1,198	1,071	3.5	3.1	997	1,011	5.0	4.9
Widowed, divorced, or separated	237	218	7.1	6.4	383	379	7.0	6.6
Single (never married)	813	690	10.5	8.5	318	318	6.0	5.6
Black and other, 20 to 64 years of age	570	578	10.5	10.3	524	567	10.6	11.1
Married, spouse present	202	219	5.9	6.4	224	199	9.5	8.4
Widowed, divorced, or separated	92	84	11.9	9.9	139	152	9.5	10.4
Single (never married)	276	274	22.1	20.1	160	217	14.3	16.8

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
Total, 16 years and over	6,739	6,484	6.9	6.4	6.6	6.0	7.3	7.0
White-collar workers	1,773	1,761	3.7	3.5	2.6	2.4	4.7	4.4
Professional and technical	351	347	2.4	2.2	1.8	1.6	3.2	2.8
Managers and administrators, except farm	220	223	2.2	2.1	1.7	1.7	3.6	3.5
Sales workers	296	307	5.0	4.9	3.9	3.9	6.3	6.2
Clerical workers	905	884	5.2	4.6	4.9	3.8	5.2	5.1
Blue-collar workers	3,010	2,797	9.2	8.3	8.8	7.8	10.8	10.5
Craft and kindred workers	857	849	6.8	6.4	6.7	6.4	8.1	5.9
Carpenters and other construction craft	508	479	13.1	11.9	13.1	11.8	(1)	(1)
All other	349	370	4.0	4.0	3.7	3.9	7.9	5.4
Operatives, except transport	1,148	1,070	9.9	9.1	9.0	7.3	11.3	11.8
Transport equipment operatives	253	246	6.7	6.5	6.7	6.8	6.0	3.4
Nonfarm laborers	752	633	15.6	13.0	16.0	13.4	12.6	10.4
Construction laborers	208	274	25.4	28.0	25.5	28.0	(1)	(1)
All other	544	359	13.6	9.2	13.8	9.2	12.3	9.7
Service workers	1,050	1,043	7.7	7.6	7.6	7.5	7.8	7.7
Private household	63	55	5.1	4.6	(1)	(1)	5.2	4.5
All other	987	988	8.0	7.9	7.6	7.5	8.2	8.2
Farm workers	139	122	5.6	5.0	3.9	3.9	14.5	10.7
No previous work experience	768	761	--	--	--	--	--	--
16 to 19 years	572	544	--	--	--	--	--	--
20 to 24 years	122	127	--	--	--	--	--	--
25 years and over	74	50	--	--	--	--	--	--

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

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

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
Total, 16 years and over	100.0	100.0	6.9	6.4	6.6	6.0	7.3	7.0
Nonagricultural private wage and salary workers	76.2	75.8	7.2	6.6	7.0	6.3	7.4	7.0
Mining	.7	1.0	5.4	7.1	5.5	7.8	(1)	.3
Construction	11.3	13.1	17.1	17.5	17.6	18.1	9.5	10.6
Manufacturing	22.1	19.7	6.8	5.6	5.7	4.3	9.3	8.5
Durable goods	11.5	10.3	6.1	4.9	5.5	4.1	7.8	7.2
Lumber and wood products	.9	.6	9.3	5.9	9.5	4.5	(1)	14.6
Furniture and fixtures	.6	1.0	7.5	9.9	7.8	11.3	6.8	7.5
Stone, clay, and glass products	.9	.7	8.7	6.3	9.5	6.7	5.8	4.4
Primary metal industries	.9	.5	5.1	2.7	5.5	2.3	1.7	5.4
Fabricated metal products	1.5	1.3	6.8	5.7	6.4	5.4	8.5	6.8
Machinery, except electrical equipment	1.5	1.1	4.1	2.7	3.5	2.1	6.6	4.9
Electrical equipment	1.7	1.8	5.2	5.1	3.5	3.4	7.5	7.2
Transportation equipment	1.7	1.9	5.4	5.2	5.5	4.9	4.9	7.0
Automobiles	.9	1.2	4.9	6.1	5.0	5.8	4.1	7.6
Other transportation equipment	.8	.6	6.1	4.0	6.1	3.6	6.0	6.2
Instruments and related products	.3	.3	4.1	3.6	2.0	.8	7.1	6.8
Other durable goods industries	1.4	1.0	12.2	8.3	9.5	6.1	15.8	11.6
Nondurable goods	10.5	9.4	7.8	6.6	5.9	4.8	10.6	9.7
Food and kindred products	2.8	2.2	9.7	7.6	8.1	5.0	13.9	13.4
Textile mill products	1.1	1.2	7.5	9.2	6.1	7.3	9.1	11.3
Apparel and other textile products	2.4	2.2	11.6	10.5	9.1	12.8	12.3	9.9
Paper and allied products	.5	.5	4.4	4.3	3.5	4.2	7.2	4.5
Printing and publishing	1.2	1.2	5.5	5.2	4.5	4.4	7.0	6.6
Chemicals and allied products	.6	.4	3.4	2.0	2.7	1.3	5.7	4.0
Rubber and plastics products	1.2	.9	10.0	7.0	7.8	3.0	13.8	13.6
Other nondurable goods industries	.8	.9	7.9	8.9	6.0	7.8	10.8	11.5
Transportation and public utilities	3.2	3.1	4.1	3.8	4.3	3.8	3.8	3.8
Railroads and railway express	.6	.3	6.9	3.4	7.1	3.4	(1)	(1)
Other transportation	2.0	2.2	5.3	5.5	5.3	5.6	5.3	5.1
Communication and other public utilities	.6	.6	2.0	1.9	1.6	1.3	2.8	2.9
Wholesale and retail trade	21.9	21.7	8.2	7.6	7.4	6.3	9.2	9.0
Finance, insurance, and real estate	2.5	2.6	3.4	3.1	2.9	2.3	3.8	3.7
Service industries	14.6	14.7	6.1	5.6	6.0	5.6	6.2	5.6
Professional services	6.1	6.5	4.4	4.3	3.8	3.3	4.7	4.7
All other service industries	8.5	8.1	8.4	7.6	8.0	7.9	8.6	7.3
Agricultural wage and salary workers	2.6	2.5	13.5	12.4	10.9	9.5	23.0	22.6
All other classes of workers	9.8	9.9	2.7	2.6	2.6	2.2	2.9	3.1
No previous work experience	11.4	11.7	--	--	--	--	--	--

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

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands.....	6,739	6,484	2,907	2,637	2,262	2,332	1,570	1,515	5,284	4,978	1,455	1,506
Job losers.....	3,241	3,106	1,931	1,793	923	905	387	404	2,622	2,426	619	680
On layoff.....	1,047	1,154	661	677	292	339	94	138	922	960	126	195
Other job losers.....	2,194	1,952	1,270	1,116	631	570	293	266	1,700	1,466	493	485
Job leavers.....	885	819	362	298	371	349	152	171	739	670	146	149
Reentrants.....	1,848	1,800	540	472	849	930	459	397	1,374	1,359	475	441
New entrants.....	765	759	74	74	120	143	571	543	550	523	215	236
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.....	48.0	47.9	66.4	68.0	40.8	38.9	24.7	26.6	49.6	48.8	42.6	45.1
On layoff.....	15.5	17.8	22.7	25.7	12.9	14.5	6.0	9.1	17.4	19.3	8.7	12.9
Other job losers.....	32.5	30.1	43.7	42.3	27.9	24.4	18.7	17.5	32.2	29.5	33.9	32.2
Job leavers.....	13.1	12.6	12.5	11.3	16.4	15.0	9.7	11.3	14.0	13.5	10.0	9.9
Reentrants.....	27.4	27.8	18.6	17.9	37.5	39.9	29.3	26.2	26.0	27.3	32.6	29.3
New entrants.....	11.4	11.7	2.5	2.8	5.3	6.1	36.4	35.8	10.4	10.5	14.8	15.7
UNEMPLOYMENT RATE												
Total unemployment rate.....	6.9	6.4	5.5	4.9	6.2	6.1	18.5	17.3	6.1	5.6	12.6	12.5
Job loser rate ¹	3.3	3.0	3.7	3.4	2.5	2.4	4.6	4.6	3.1	2.7	5.4	5.6
On layoff rate ¹.....	.9	.8	.7	.6	1.0	.9	1.8	2.0	.9	.8	1.3	1.2
Other job losers rate ¹	1.9	1.8	1.0	.9	2.3	2.4	5.4	4.5	1.6	1.5	4.1	3.7
Job leavers rate ¹.....	.8	.8	.1	.1	.3	.4	6.7	6.2	.6	.6	1.9	2.0

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

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

(Percent distribution)

Reason, sex, and age	February 1979						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over	15 to 26 weeks	27 weeks and over
Total, 16 years and over	6,484	100.0	41.4	36.9	21.7	13.1	8.6
Job losers.....	3,106	100.0	35.0	42.7	22.4	14.2	8.2
On layoff.....	1,154	100.0	44.5	44.9	10.7	8.8	1.8
Other job losers.....	1,952	100.0	29.4	41.3	29.3	17.3	12.0
Job leavers.....	819	100.0	42.4	34.3	23.3	14.0	9.3
Reentrants.....	1,800	100.0	50.2	29.6	20.3	11.9	8.3
New entrants.....	759	100.0	45.8	33.7	20.5	10.0	10.5
Males, 20 years and over	2,637	100.0	32.6	41.9	25.5	15.1	10.5
Job losers.....	1,793	100.0	30.5	45.2	24.4	15.3	9.1
On layoff.....	677	100.0	39.2	48.5	12.3	9.8	2.5
Other job losers.....	1,116	100.0	25.2	43.2	31.6	18.6	13.0
Job leavers.....	298	100.0	33.6	36.6	29.9	17.1	12.8
Reentrants.....	472	100.0	38.8	34.7	26.5	12.9	13.6
New entrants.....	74	100.0	(1)	(1)	(1)	(1)	(1)
Females, 20 years and over	2,332	100.0	46.8	32.6	20.6	12.8	7.8
Job losers.....	909	100.0	38.0	38.9	23.1	14.4	8.7
On layoff.....	339	100.0	51.3	38.3	10.3	9.4	.9
Other job losers.....	570	100.0	30.1	39.4	30.6	17.4	13.2
Job leavers.....	349	100.0	47.9	29.2	22.9	12.9	10.0
Reentrants.....	930	100.0	55.3	27.1	17.5	11.4	6.1
New entrants.....	143	100.0	45.1	36.8	18.1	10.4	7.6
Both sexes, 16 to 19 years	1,515	100.0	48.4	34.9	16.7	10.0	6.7
Job losers.....	404	100.0	48.3	39.9	11.9	8.7	3.2
On layoff.....	138	100.0	53.6	43.5	2.9	2.9	--
Other job losers.....	266	100.0	45.1	38.3	16.5	11.7	4.9
Job leavers.....	171	100.0	46.5	40.7	12.8	10.5	2.3
Reentrants.....	397	100.0	51.9	29.0	19.1	12.1	7.1
New entrants.....	543	100.0	46.7	33.5	19.9	9.4	10.5

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

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

Sex, age, and race	February 1979								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	6,484	5,262	28.5	6.1	68.6	31.2	13.5	7.3	1.55
16 to 19 years	1,515	1,365	17.9	3.3	74.8	25.3	12.5	5.6	1.39
20 to 24 years	1,479	1,214	32.8	6.7	68.2	32.6	12.7	5.8	1.59
25 to 34 years	1,587	1,244	31.4	7.2	65.8	36.2	14.9	7.8	1.63
35 to 44 years	728	568	36.1	7.6	70.4	32.4	13.2	7.2	1.67
45 to 54 years	636	455	30.8	6.6	64.6	32.3	13.6	11.0	1.59
55 to 64 years	402	320	31.6	9.1	58.1	26.6	12.5	15.0	1.53
65 years and over	136	95	20.0	--	63.2	35.8	21.1	3.2	1.43
Males, 16 years and over	3,508	2,697	30.7	5.3	71.7	27.8	15.2	9.4	1.60
16 to 19 years	871	765	19.7	2.6	78.0	21.7	14.5	5.8	1.42
20 to 24 years	815	629	35.1	5.6	71.2	30.2	15.1	8.1	1.65
25 to 34 years	807	567	33.7	7.8	66.4	34.0	16.6	11.3	1.72
35 to 44 years	349	258	45.0	7.0	72.5	29.8	15.5	7.4	1.77
45 to 54 years	341	225	32.9	7.1	71.6	24.4	16.4	15.1	1.68
55 to 64 years	243	191	33.5	3.7	54.5	25.7	13.1	19.9	1.50
65 years and over	81	62	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	2,976	2,565	26.2	6.9	65.3	34.7	11.6	5.1	1.50
16 to 19 years	644	600	15.7	4.2	70.8	29.8	10.0	5.3	1.36
20 to 24 years	664	585	30.3	7.9	64.8	35.2	10.3	3.1	1.51
25 to 34 years	780	677	29.5	6.8	63.7	38.0	13.6	4.9	1.56
35 to 44 years	379	310	28.7	8.1	68.7	34.2	11.3	7.1	1.58
45 to 54 years	295	231	28.6	5.6	57.6	39.4	10.8	6.9	1.49
55 to 64 years	158	129	28.7	17.1	63.6	27.9	11.6	7.8	1.57
65 years and over	56	34	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over	4,978	3,952	26.3	6.2	69.2	32.1	13.1	7.7	1.54
Males	2,734	2,035	29.5	5.6	71.7	29.2	15.0	10.1	1.61
Females	2,244	1,917	22.8	6.8	66.4	35.2	11.0	5.1	1.47
Black and other, 16 years and over	1,506	1,310	35.1	5.7	66.8	28.2	14.7	6.3	1.57
Males	773	662	34.3	4.2	71.5	23.6	15.7	7.3	1.56
Females	732	648	36.1	7.3	62.0	33.0	13.6	5.4	1.57

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

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

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

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

Sex and reason	February 1979								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	6,484	5,262	28.5	6.1	68.6	31.2	13.5	7.3	1.55
Job losers	3,106	1,961	38.4	6.2	66.7	30.5	14.2	10.6	1.66
Job leavers	819	639	29.2	6.3	71.6	35.2	13.9	4.4	1.61
Reentrants	1,800	1,706	22.2	6.3	67.5	33.4	12.8	5.5	1.48
New entrants	759	757	16.0	5.0	72.3	23.2	12.4	6.3	1.35
Males, 16 years and over	3,508	2,697	30.7	5.3	71.7	27.8	15.2	9.4	1.60
Job losers	2,050	1,281	38.3	5.8	68.8	27.6	15.5	12.2	1.68
Job leavers	392	402	32.3	5.0	75.1	31.6	15.7	4.2	1.64
Reentrants	710	659	22.9	5.3	71.9	29.9	13.1	7.7	1.51
New entrants	356	355	15.8	3.9	77.7	21.1	17.2	8.2	1.44
Females, 16 years and over	2,976	2,565	26.2	6.9	65.3	34.7	11.6	5.1	1.50
Job losers	1,056	680	38.5	6.9	62.8	36.0	11.5	7.4	1.63
Job leavers	427	437	26.3	7.8	68.4	38.4	12.6	4.3	1.58
Reentrants	1,090	1,046	21.8	6.8	64.8	35.8	12.5	4.2	1.46
New entrants	403	403	16.4	6.2	67.2	25.1	8.4	4.5	1.28

NOTE: See note, table A-15.

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A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
Total, 16 years and over	6,739	6,484	100.0	100.0	5,335	5,030	100.0	100.0
Less than 5 weeks	2,591	2,683	38.5	41.4	1,847	1,655	34.6	36.9
5 to 14 weeks	2,406	2,393	35.7	36.9	1,967	1,986	37.2	39.5
15 to 26 weeks	1,736	1,797	25.8	27.7	1,400	1,477	26.2	29.4
27 to 51 weeks	671	596	10.0	9.2	587	508	11.0	10.1
52 weeks and over	1,742	1,407	25.8	21.7	1,501	1,190	28.1	23.7
Average (mean) duration, in weeks	12.6	11.3	--	--	13.3	12.3	--	--
Median duration, in weeks	7.7	6.8	--	--	8.5	7.6	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
	February 1979										
Total, 16 years and over	6,484	2,683	2,393	847	560	11.3	6.8	38.5	41.4	25.8	21.7
16 to 21 years	2,181	1,009	806	234	132	9.3	5.7	45.3	46.3	21.1	16.8
16 to 19 years	1,515	734	528	152	101	9.2	5.3	48.5	48.4	21.1	16.7
20 to 24 years	1,479	624	563	198	93	10.3	6.6	38.8	42.2	22.0	19.7
25 to 34 years	1,587	654	585	218	131	11.2	6.8	35.8	41.2	26.2	22.0
35 to 44 years	728	277	257	113	80	12.7	7.8	32.1	38.1	29.3	26.6
45 to 54 years	636	214	243	92	87	14.6	8.6	31.5	33.6	32.2	28.2
55 to 64 years	402	124	162	60	56	15.2	8.6	34.0	30.9	34.4	28.7
65 years and over	136	56	55	14	12	12.1	7.6	29.9	41.0	47.2	18.8
Males, 16 years and over	3,508	1,258	1,430	488	332	12.3	7.6	34.2	35.9	27.3	23.4
16 to 21 years	1,237	545	472	145	75	9.6	6.0	44.0	44.1	23.0	17.8
16 to 19 years	871	399	325	92	55	9.4	5.7	48.3	45.8	22.3	16.8
20 to 24 years	815	329	315	119	51	10.8	7.1	34.1	40.4	23.6	20.9
25 to 34 years	807	257	345	123	82	12.7	8.1	32.8	31.9	26.4	25.4
35 to 44 years	349	96	150	58	46	14.9	9.9	21.2	27.5	32.4	29.7
45 to 54 years	341	88	149	50	53	16.3	9.9	24.7	25.9	32.9	30.4
55 to 64 years	243	66	104	40	33	15.9	8.9	26.8	27.1	35.8	30.0
65 years and over	81	21	41	6	12	15.9	9.3	26.4	26.4	45.4	22.4
Females, 16 years and over	2,976	1,426	963	359	228	10.1	5.5	43.9	47.9	23.9	19.7
16 to 21 years	944	464	334	89	57	8.8	5.2	47.0	49.1	18.5	15.5
16 to 19 years	644	335	203	61	46	8.8	4.8	48.8	52.0	19.7	16.5
20 to 24 years	664	295	248	79	42	5.7	6.1	45.4	44.4	19.7	18.2
25 to 34 years	780	396	239	95	49	9.7	4.9	39.7	50.8	25.9	18.4
35 to 44 years	379	181	108	55	35	10.7	5.5	42.3	47.8	26.4	23.8
45 to 54 years	295	126	94	42	34	12.6	6.9	39.9	42.6	31.5	25.6
55 to 64 years	158	58	58	19	23	14.1	7.8	45.8	36.6	25.5	26.8
65 years and over	56	34	13	8	--	6.6	4.0	(1)	(1)	(1)	(1)
White, 16 years and over	4,978	2,134	1,837	638	369	10.5	6.4	40.7	42.9	24.3	20.2
Males	2,734	1,027	1,116	373	219	11.4	7.3	36.7	37.6	25.4	21.6
Females	2,244	1,107	721	265	150	5.3	5.1	46.0	49.4	22.8	18.5
Black and other, 16 years and over	1,506	549	556	209	191	14.0	7.9	30.4	36.5	31.6	26.6
Males	773	231	314	115	113	15.4	8.8	24.7	29.8	35.1	29.6
Females	732	318	242	94	78	12.5	6.9	36.8	43.4	27.6	23.5
Males, 16 years and over:											
Married, spouse present	1,366	429	620	187	130	12.3	8.3	28.9	31.4	29.3	23.2
Widowed, divorced, or separated	325	100	132	53	40	15.0	8.4	32.6	30.7	30.2	28.7
Single (never married)	1,817	729	678	248	163	11.8	6.9	38.6	40.1	25.3	22.6
Females, 16 years and over:											
Married, spouse present	1,297	658	388	179	72	9.1	4.9	45.4	50.7	24.7	19.4
Widowed, divorced, or separated	579	262	192	58	67	11.9	6.2	39.8	45.3	26.1	21.5
Single (never married)	1,100	506	383	122	85	10.3	5.9	44.1	46.0	21.9	19.2

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

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 6 weeks as a percent of unemployed in group		16 weeks and over as a percent of unemployed in group	
	Total	Less than 6 weeks	6 to 14 weeks	15 to 26 weeks	27 weeks and over			Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
	February 1975										
OCCUPATION											
White-collar workers	1,761	763	557	269	171	11.7	6.4	40.8	43.3	26.3	25.0
Professional and managerial	570	223	180	86	80	14.2	7.2	33.1	39.1	33.5	29.1
Sales workers	307	117	111	55	23	12.2	6.8	41.2	38.2	22.1	25.6
Clerical workers	884	422	266	128	68	9.9	5.5	45.4	47.7	23.3	22.1
Blue-collar workers	2,797	1,041	1,181	346	229	11.2	7.4	35.1	37.2	25.5	20.6
Craft and kindred workers	849	302	373	108	66	11.1	7.5	31.4	35.5	29.1	20.5
Operatives, except transport	1,070	458	391	131	89	11.1	6.5	38.9	42.8	24.0	20.6
Transport equipment operatives	246	87	109	21	29	13.1	8.6	32.5	35.2	24.8	20.3
Nonfarm laborers	633	195	307	87	44	11.0	6.0	34.2	30.8	23.8	20.7
Service workers	1,043	476	355	137	75	10.6	6.0	40.0	45.7	27.9	20.3
INDUSTRY¹											
Agriculture	165	71	67	23	5	8.6	6.7	30.7	42.8	32.7	16.6
Construction	866	260	464	111	32	10.0	8.4	33.2	30.0	20.0	16.4
Manufacturing	1,277	542	428	172	136	12.2	6.7	36.9	42.4	27.8	24.1
Durable goods	667	278	217	109	64	12.3	7.0	35.2	41.6	30.7	25.9
Non-durable goods	610	264	211	63	72	12.2	6.4	38.9	43.3	24.6	22.1
Transportation and public utilities	237	88	94	21	34	13.8	7.0	37.6	37.1	28.2	23.0
Wholesale and retail trade	1,411	656	490	170	95	9.9	5.6	42.7	46.5	24.0	18.8
Finance and service industries	1,394	603	445	214	132	11.5	6.7	38.1	43.3	27.1	24.9
Public administration	218	74	70	45	29	13.5	8.9	19.3	33.8	43.6	34.1
No previous work experience	761	349	255	76	80	11.8	5.9	45.0	45.9	22.1	20.6

¹ Includes wage and salary workers only.

A-20. Employed persons by sex and age

[In thousands]

Age and type of industry	Total		Males		Females	
	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
All industries	91,185	94,765	53,466	55,032	37,719	39,733
16 to 19 years	6,909	7,248	3,660	3,708	3,249	3,540
16 to 17 years	2,694	2,907	1,426	1,482	1,267	1,425
18 to 19 years	4,215	4,341	2,234	2,226	1,981	2,115
20 to 24 years	12,666	13,428	6,778	7,196	5,888	6,232
25 to 54 years	57,746	59,799	34,519	35,402	23,228	24,397
25 to 34 years	23,876	25,001	14,243	14,765	9,634	10,235
35 to 44 years	17,597	18,403	10,477	10,857	7,120	7,546
45 to 54 years	16,273	16,395	9,799	9,780	6,474	6,616
55 to 64 years	11,042	11,343	6,749	6,895	4,293	4,448
55 to 59 years	6,882	6,998	4,171	4,245	2,710	2,753
60 to 64 years	4,160	4,345	2,576	2,650	1,583	1,695
65 years and over	2,821	2,946	1,759	1,830	1,061	1,116
Nonagricultural industries	88,413	91,969	51,173	52,708	37,241	39,261
16 to 19 years	6,680	7,011	3,472	3,501	3,208	3,510
16 to 17 years	2,583	2,768	1,343	1,365	1,240	1,403
18 to 19 years	4,097	4,242	2,129	2,135	1,968	2,107
20 to 24 years	12,405	13,133	6,572	6,954	5,834	6,179
25 to 54 years	56,274	58,271	33,336	34,172	22,938	24,099
25 to 34 years	23,354	24,444	13,832	14,309	9,522	10,135
35 to 44 years	17,144	17,933	10,113	10,473	7,031	7,460
45 to 54 years	15,775	15,893	9,390	9,390	6,385	6,504
55 to 64 years	10,558	10,851	6,327	6,506	4,232	4,385
55 to 59 years	6,604	6,756	3,940	4,048	2,664	2,708
60 to 64 years	3,954	4,135	2,366	2,458	1,568	1,676
65 years and over	2,496	2,664	1,466	1,575	1,030	1,088
Agriculture	2,771	2,796	2,293	2,324	478	472
16 to 19 years	229	238	188	208	41	30
16 to 17 years	111	138	83	117	28	22
18 to 19 years	118	59	105	91	13	8
20 to 24 years	261	295	207	242	54	53
25 to 54 years	1,474	1,528	1,183	1,231	290	298
25 to 34 years	522	556	411	456	111	100
35 to 44 years	453	470	364	384	89	86
45 to 54 years	498	502	409	390	90	112
55 to 64 years	483	452	422	389	61	63
55 to 59 years	277	242	231	197	46	45
60 to 64 years	206	210	151	192	15	18
65 years and over	324	283	293	255	31	28

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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. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
	TOTAL	91,185	94,765	49,805	51,324	34,470	36,193	3,660	3,708	3,249	3,540
White-collar workers	46,475	48,911	21,689	22,511	22,524	23,902	613	614	1,649	1,883
Professional and technical	14,254	15,244	7,984	8,540	6,087	6,513	93	91	89	99
Health workers	2,544	2,812	856	949	1,672	1,840	1	9	15	15
Teachers, except college	3,145	3,308	905	938	2,221	2,333	4	7	16	30
Other professional and technical	8,565	9,124	6,223	6,653	2,194	2,340	88	75	58	54
Managers and administrators, except farm	9,962	10,258	7,640	7,705	2,256	2,462	38	50	29	40
Salaried workers	8,152	8,464	6,258	6,336	1,833	2,044	34	46	28	39
Self-employed workers in retail trade	906	870	618	587	283	281	5	2	1	1
Self-employed workers, except retail trade	903	923	764	783	139	136	--	3	--	1
Sales workers	5,666	5,963	2,864	3,100	2,211	2,243	223	229	368	391
Retail trade	2,985	3,111	867	1,006	1,604	1,554	160	176	354	374
Other industries	2,681	2,852	1,997	2,093	607	689	62	54	14	16
Clerical workers	16,594	17,447	3,202	3,166	11,969	12,685	260	243	1,163	1,352
Stenographers, typists, and secretaries	4,727	4,884	47	74	4,342	4,441	7	10	332	359
Other clerical workers	11,867	12,563	3,155	3,092	7,627	8,244	253	233	831	993
Blue-collar workers	29,796	30,927	22,433	23,175	5,042	5,269	1,945	2,062	377	422
Craft and kindred workers	11,780	12,505	10,761	11,276	610	674	376	499	33	56
Carpenters	1,136	1,172	1,066	1,093	14	15	53	62	3	2
Construction craft, except carpenters	2,234	2,389	2,126	2,251	31	25	74	106	2	7
Mechanics and repairers	3,223	3,406	3,051	3,180	31	43	140	183	1	2
Metal craft	1,113	1,255	1,053	1,174	30	29	30	44	--	8
Blue-collar worker supervisors, not elsewhere classified	1,696	1,715	1,542	1,528	141	177	9	9	4	2
All other	2,377	2,567	1,923	2,049	363	386	69	97	22	36
Operatives, except transport	10,405	10,657	5,676	5,879	3,844	3,925	638	603	247	251
Durable goods manufacturing	4,708	4,995	2,973	3,125	1,449	1,577	154	188	93	104
Nondurable goods manufacturing	3,355	3,244	1,296	1,243	1,835	1,795	118	103	107	102
Other industries	2,341	2,418	1,407	1,510	561	552	326	311	48	45
Transport equipment operatives	3,548	3,535	3,115	3,093	249	261	170	158	13	23
Drivers, motor vehicles	3,031	3,034	2,633	2,634	235	245	145	133	13	22
All other	517	501	482	459	14	16	21	25	1	1
Nonfarm laborers	4,064	4,230	2,881	2,927	339	409	760	802	83	92
Construction	612	705	512	593	10	10	55	96	5	5
Manufacturing	1,059	1,065	830	810	121	147	54	91	14	17
Other industries	2,393	2,460	1,539	1,524	206	252	581	615	65	69
Service workers	12,557	12,603	3,837	3,821	6,596	6,707	930	861	1,194	1,213
Private household workers	1,185	1,133	18	13	925	877	16	12	227	231
Service workers, except private household	11,372	11,470	3,819	3,808	5,671	5,830	914	850	968	982
Food service workers	4,101	4,158	734	756	2,130	2,179	552	554	685	669
Protective service workers	1,339	1,400	1,207	1,265	108	116	21	17	3	1
All other	5,932	5,912	1,878	1,787	3,433	3,535	341	279	280	312
Farm workers	2,356	2,324	1,847	1,816	308	315	172	171	29	22
Farmers and farm managers	1,353	1,348	1,233	1,217	98	118	22	11	--	2
Farm laborers and supervisors	1,003	976	614	599	210	198	150	159	29	20
Paid workers	812	786	596	578	87	90	113	109	16	10
Unpaid family workers	191	190	17	22	123	108	37	50	13	10

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
TOTAL						
Total, 16 years and over (thousands)	91,185	94,765	53,466	55,032	37,719	39,733
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	51.0	51.6	41.7	42.0	64.1	64.9
Professional and technical	15.6	16.1	15.1	15.7	16.4	16.6
Managers and administrators, except farm	10.9	10.8	14.4	14.1	6.1	6.3
Sales workers	6.2	6.3	5.8	6.0	6.8	6.6
Clerical workers	18.2	18.4	6.5	6.2	34.8	35.3
Blue-collar workers	32.7	32.6	45.6	45.9	14.4	14.3
Craft and kindred workers	12.9	13.2	20.8	21.4	1.7	1.8
Operatives, except transport	11.4	11.2	11.8	11.8	10.8	10.5
Transport equipment operatives	3.9	3.7	6.1	5.9	.7	.7
Nonfarm laborers	4.5	4.5	6.8	6.8	1.1	1.3
Service workers	13.8	13.3	8.9	8.5	20.7	19.9
Private household workers	1.3	1.2	.1	(1)	3.1	2.8
Other service workers	12.5	12.1	8.9	8.5	17.6	17.1
Farm workers	2.6	2.5	3.8	3.6	.9	.8
Farmers and farm managers	1.5	1.4	2.3	2.2	.3	.3
Farm laborers and supervisors	1.1	1.0	1.4	1.4	.6	.5
White						
Total, 16 years and over (thousands)	81,061	84,237	48,125	49,504	32,936	34,733
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	52.7	53.3	43.3	43.6	66.4	67.1
Professional and technical	16.1	16.6	15.7	16.3	16.6	17.1
Managers and administrators, except farm	11.7	11.5	15.3	14.9	6.5	6.7
Sales workers	6.6	6.7	6.1	6.4	7.4	7.1
Clerical workers	18.3	18.5	6.3	6.0	35.8	36.2
Blue-collar workers	32.2	32.2	44.8	45.1	13.9	13.9
Craft and kindred workers	13.5	13.7	21.4	21.9	1.8	1.9
Operatives, except transport	11.0	10.8	11.4	11.3	10.3	10.1
Transport equipment operatives	3.6	3.7	5.9	5.7	.7	.7
Nonfarm laborers	4.0	4.1	6.1	6.1	1.1	1.2
Service workers	12.4	11.9	8.1	7.6	18.8	18.1
Private household workers	1.0	.9	.1	(1)	2.4	2.2
Other service workers	11.4	11.0	8.0	7.6	16.4	15.9
Farm workers	2.6	2.5	3.8	3.7	1.0	.9
Farmers and farm managers	1.6	1.6	2.5	2.4	.3	.3
Farm laborers and supervisors	1.0	1.0	1.3	1.3	.7	.6
Black and other						
Total, 16 years and over (thousands)	10,124	10,527	5,341	5,528	4,784	4,999
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	37.1	38.1	27.0	27.7	48.3	49.7
Professional and technical	12.2	11.9	9.9	10.4	14.8	13.6
Managers and administrators, except farm	4.6	5.2	6.2	7.0	2.8	3.3
Sales workers	2.8	2.9	2.5	2.5	3.1	3.4
Clerical workers	17.5	18.0	8.3	7.8	27.7	29.3
Blue-collar workers	36.2	35.9	52.8	52.8	17.7	17.1
Craft and kindred workers	8.7	9.3	15.2	16.5	1.3	1.3
Operatives, except transport	15.0	14.8	15.4	16.0	14.6	13.6
Transport equipment operatives	4.6	4.4	8.7	7.8	.4	.5
Nonfarm laborers	7.8	7.3	13.4	12.5	1.4	1.7
Service workers	24.5	24.2	16.5	16.5	33.5	32.8
Private household workers	3.6	3.5	.1	.1	7.6	7.2
Other service workers	20.9	20.8	16.4	16.4	26.0	25.7
Farm workers	2.2	1.8	3.7	3.1	.4	.4
Farmers and farm managers	.4	.3	.7	.5	.1	.1
Farm laborers and supervisors	1.7	1.5	3.0	2.5	.4	.3

¹ Less than 0.05 percent.

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

[In thousands]

Age and sex	February 1979								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	85,067	1,265	15,568	68,235	6,486	416	1,166	1,418	212
16 to 19 years	6,687	272	484	6,132	99	24	162	16	60
16 to 17 years	2,707	206	161	2,341	45	16	53	10	36
18 to 19 years	4,180	66	323	3,791	54	9	69	6	24
20 to 24 years	12,818	91	1,552	11,175	286	29	205	74	16
25 to 34 years	22,903	139	4,480	18,284	1,477	65	290	241	26
35 to 44 years	16,327	147	3,533	12,647	1,496	111	187	257	26
45 to 54 years	14,323	201	3,125	10,997	1,459	111	163	296	43
55 to 64 years	9,716	239	2,064	7,413	1,120	54	104	319	29
55 to 59 years	6,066	122	1,333	4,612	653	36	61	161	20
60 to 64 years	3,650	117	732	2,801	467	18	42	158	10
65 years and over	2,092	176	330	1,587	549	22	55	216	12
Males, 16 years and over	48,069	111	7,673	40,285	4,608	31	965	1,287	73
16 to 19 years	3,423	41	193	3,189	59	19	142	15	50
16 to 17 years	1,332	33	78	1,221	23	11	80	10	27
18 to 19 years	2,091	8	116	1,968	36	8	62	6	23
20 to 24 years	6,751	5	623	6,122	195	8	163	65	14
25 to 34 years	13,310	5	2,222	11,083	996	3	238	214	5
35 to 44 years	9,404	9	1,772	7,622	1,070	--	159	225	--
45 to 54 years	8,335	17	1,600	6,718	1,054	--	116	273	2
55 to 64 years	5,672	15	1,068	4,589	833	1	96	292	--
55 to 59 years	3,538	9	695	2,834	509	1	55	142	--
60 to 64 years	2,134	6	373	1,755	324	--	41	150	--
65 years and over	1,175	20	193	962	400	--	51	202	2
Females, 16 years and over	36,997	1,153	7,895	27,950	1,878	385	201	131	139
16 to 19 years	3,464	231	290	2,943	40	6	20	--	9
16 to 17 years	1,375	173	83	1,119	23	5	12	1	9
18 to 19 years	2,089	58	207	1,824	17	1	8	--	1
20 to 24 years	6,068	86	928	5,053	91	21	42	6	3
25 to 34 years	9,593	134	2,258	7,201	481	62	52	27	21
35 to 44 years	6,923	137	1,761	5,025	425	112	28	32	26
45 to 54 years	5,988	185	1,525	4,279	404	111	48	23	41
55 to 64 years	4,044	224	996	2,825	288	53	7	27	29
55 to 59 years	2,528	113	638	1,778	145	35	6	19	20
60 to 64 years	1,516	111	358	1,046	143	18	1	8	9
65 years and over	917	156	136	625	150	21	4	13	10

A-24. Employed persons by industry and occupation

[In thousands]

Industry	February 1979											
	White-collar workers					Blue-collar workers				Service workers		Farm workers
	Total employed	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	
Total, 16 years and over:												
Agriculture	2,796	62	17	4	79	72	19	35	173	--	11	2,324
Mining	861	134	61	5	79	251	242	53	22	--	14	--
Construction	5,593	185	694	27	416	3,076	300	173	705	--	17	--
Manufacturing	21,780	2,351	1,520	461	2,587	4,367	8,239	783	1,065	--	408	--
Durable goods	13,281	1,561	880	171	1,513	2,866	4,995	379	665	--	250	--
Nondurable goods	8,499	790	640	290	1,074	1,501	3,244	404	399	--	158	--
Transportation and public utilities	6,224	521	626	46	1,364	1,357	141	1,494	473	--	203	--
Wholesale and retail trade	19,296	399	3,636	4,007	3,469	1,567	974	762	1,185	--	2,296	--
Wholesale trade	3,663	144	700	897	751	333	185	363	261	--	29	--
Retail trade	15,633	255	2,936	3,111	2,719	1,234	790	399	924	--	3,267	--
Finance, insurance, and real estate	5,682	298	1,099	1,260	2,600	103	7	7	67	--	243	--
Services	27,545	10,344	1,953	150	5,029	1,410	701	185	418	1,133	6,222	--
Private households	1,307	15	--	--	15	3	--	2	82	1,133	57	--
Other service industries	26,238	10,329	1,953	150	5,014	1,407	701	183	336	--	6,165	--
Public administration	4,987	951	650	2	1,825	302	36	43	123	--	1,056	--

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

(In thousands)

Reason not working	All industries		Nonagricultural industries					
			Total		Wage and salary workers ¹			
	Feb. 1978				Feb. 1979		Paid absences ²		Unpaid absences^{2}
			Feb. 1978	Feb. 1979			Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979
Total, 16 years and over	4,466	4,475	4,238	4,276	1,539	1,649	1,982	1,935
Vacation	1,129	1,380	1,107	1,346	711	846	222	337
Illness	1,559	1,537	1,522	1,512	550	628	783	758
Bad weather	770	678	647	572	--	--	--	--
Industrial dispute	179	73	179	71	--	--	--	--
All other reasons	829	807	782	774	278	176	978	839
Males, 16 years and over	2,769	2,697	2,559	2,507	975	1,008	1,128	1,054
Vacation	714	812	694	783	467	517	127	161
Illness	898	827	861	803	345	377	408	374
All other reasons ³	1,157	1,057	1,004	921	163	114	593	519
Females, 16 years and over	1,698	1,778	1,679	1,769	566	641	854	880
Vacation	415	567	413	563	245	328	94	176
Illness	662	709	661	709	205	251	374	385
All other reasons ³	621	502	605	497	115	62	385	320

¹ Excludes private household.³ Includes bad weather and industrial dispute, not shown separately.² Pay status not available separately for bad weather and industrial dispute; these categories are included in all other reasons.**A-26. Persons at work by type of industry and hours of work**

Hours of work	February 1979					
	Thousands of persons			Percent distribution		
	All industries	Nonagri-cultural industries	Agri-culture	All industries	Nonagri-cultural industries	Agri-culture
Total, 16 years and over	90,290	87,692	2,598	100.0	100.0	100.0
<34 hours	24,444	23,578	867	27.1	26.9	33.4
1-4 hours	800	752	48	.9	.9	1.8
5-14 hours	4,566	4,334	232	5.1	4.9	8.9
15-29 hours	11,555	11,121	435	12.8	12.7	16.7
30-34 hours	7,523	7,371	152	8.3	8.4	5.8
5 hours and over	65,847	64,115	1,732	72.9	73.1	66.6
35-39 hours	6,087	5,948	139	6.7	6.8	5.3
40 hours	36,246	35,798	448	40.1	40.8	17.2
41 hours and over	23,514	22,369	1,145	26.0	25.5	44.1
41 to 48 hours	9,442	9,194	248	10.5	10.5	9.5
49 to 59 hours	8,334	7,955	379	9.2	9.1	14.6
60 hours and over	5,738	5,220	518	6.4	6.0	19.9
Average hours, total at work	38.2	38.1	41.2	--	--	--
Average hours, workers on full-time schedules	42.5	42.4	47.8	--	--	--

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

[Numbers in thousands]

Reason for working less than 35 hours	February 1979					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over	24,444	9,203	15,241	23,576	8,782	14,795
Economic reasons	3,228	1,409	1,819	3,068	1,297	1,771
Slack work	1,619	1,100	519	1,492	1,002	490
Material shortages or repairs to plant and equipment	76	76	--	76	76	--
New job started during week	147	147	--	139	139	--
Job terminated during week	86	86	--	82	82	--
Could find only part-time work	1,300	--	1,300	1,281	--	1,281
Other reasons	21,217	7,795	13,422	20,509	7,485	13,024
Does not want, or unavailable for, full-time work	11,117	--	11,117	10,827	--	10,827
Vacation	700	700	--	680	680	--
Illness	2,130	1,966	164	2,078	1,936	142
Bad weather	1,836	1,836	--	1,613	1,613	--
Industrial dispute	17	17	--	17	17	--
Legal or religious holiday	1,795	1,795	--	1,755	1,795	--
Full time for this job	1,421	--	1,421	1,396	--	1,396
All other reasons	2,200	1,481	719	2,103	1,444	659
Average hours:						
Economic reasons	21.3	23.7	19.5	21.5	24.2	19.5
Other reasons	21.4	26.9	18.3	21.5	27.1	18.3
Worked 30 to 34 hours:						
Economic reasons	910	589	321	869	573	316
Other reasons	6,613	4,526	2,087	6,482	4,434	2,048

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

[Numbers in thousands]

Industry	February 1979								Average hours, total at work	Average hours, workers on full-time schedules
	Full- or part-time status						Average hours, total at work	Average hours, workers on full-time schedules		
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules						
Total				40 hours or less	41 to 48 hours	49 hours or more				
Total, 16 years and over ¹	87,692	3,068	13,024	71,600	49,231	9,194	13,175	38.1	42.4	
Wage and salary workers	81,405	2,730	11,844	66,831	47,086	8,641	11,104	37.9	42.0	
Construction	4,102	226	231	3,645	2,851	316	478	37.6	39.8	
Manufacturing	20,548	472	712	19,364	13,374	3,117	2,873	40.9	42.1	
Durable goods	12,512	145	294	12,073	6,166	2,062	1,845	41.6	42.4	
Nondurable goods	8,035	327	418	7,290	5,206	1,056	1,028	39.8	41.7	
Transportation and public utilities	5,606	141	406	5,059	3,462	623	974	40.8	43.0	
Wholesale and retail trade	16,627	889	4,307	11,431	7,199	1,815	2,417	35.8	43.3	
Finance, insurance, and real estate	5,120	75	572	4,473	3,346	513	614	36.2	41.0	
Service industries	23,844	859	5,338	17,647	12,910	1,720	3,017	35.4	41.6	
Private households	1,187	168	625	394	294	26	74	22.8	41.5	
All other industries	22,657	691	4,713	17,253	12,616	1,694	2,943	36.1	41.6	
Public administration	4,768	51	266	4,451	3,488	410	553	39.3	40.7	
Self-employed workers	5,871	330	1,012	4,529	2,004	529	1,996	40.8	47.7	
Unpaid family workers	416	8	169	239	141	24	74	36.4	45.7	

¹ Includes mining, not shown separately.

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

(Numbers in thousands)

Sex, age, race, and marital status	February 1979							
	Total at work	On part time for economic reasons	On voluntary part time				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	87,692	3,068	13,024	71,600	49,231	22,369	38.1	42.4
16 to 21 years	11,635	684	4,708	6,243	4,943	1,300	29.3	40.1
16 to 19 years	6,779	381	3,716	2,682	2,157	525	25.5	39.5
16 to 17 years	2,654	80	2,242	332	272	60	18.0	38.0
18 to 19 years	4,125	301	1,475	2,349	1,884	465	30.3	39.7
20 years and over	80,913	2,688	9,308	68,917	47,073	21,844	39.1	42.5
20 to 24 years	12,671	658	1,878	10,135	7,506	2,629	36.6	41.0
25 years and over	68,242	2,028	7,431	58,783	39,568	19,215	39.6	42.7
25 to 44 years	40,569	1,250	3,861	35,458	23,411	12,047	40.0	42.9
45 to 64 years	25,253	676	2,404	22,173	15,333	6,840	39.8	42.5
65 years and over	2,420	104	1,165	1,151	824	327	28.8	41.7
Males, 16 years and over	50,201	1,260	3,969	44,572	27,434	17,538	41.3	43.9
16 to 21 years	5,864	306	2,179	3,379	2,476	903	30.9	41.1
16 to 19 years	3,372	172	1,757	1,443	1,087	356	27.0	40.5
16 to 17 years	1,311	45	1,073	193	159	34	18.9	37.9
18 to 19 years	2,061	127	684	1,250	927	323	32.1	40.9
20 years and over	46,828	1,088	2,212	43,528	26,347	17,181	42.3	44.0
20 to 24 years	6,675	299	742	5,634	3,782	1,852	38.5	42.1
25 years and over	40,153	788	1,470	37,895	22,567	15,328	42.9	44.3
25 to 44 years	23,741	503	460	22,778	13,142	9,636	43.7	44.6
45 to 64 years	14,989	243	366	14,380	8,923	5,457	43.0	43.9
65 years and over	1,422	42	645	735	500	235	30.2	42.3
Females, 16 years and over	37,492	1,808	9,056	26,628	21,798	4,830	33.8	39.8
16 to 21 years	5,771	378	2,529	2,864	2,467	397	27.7	39.0
16 to 19 years	3,407	208	1,959	1,240	1,072	168	24.0	38.3
16 to 17 years	1,343	35	1,169	139	113	26	17.2	38.0
18 to 19 years	2,064	174	791	1,099	957	142	28.4	38.3
20 years and over	34,085	1,600	7,096	25,389	20,726	4,663	34.7	39.8
20 to 24 years	5,995	360	1,137	4,498	3,721	777	34.6	39.7
25 years and over	28,089	1,240	5,959	20,890	17,003	3,887	34.8	39.9
25 to 44 years	16,828	745	3,401	12,682	10,272	2,410	34.9	39.8
45 to 64 years	10,263	433	2,040	7,790	6,406	1,384	35.3	40.0
65 years and over	998	62	519	417	325	92	26.9	40.5
RACE								
White	77,955	2,552	11,873	63,530	42,601	20,929	38.2	42.6
Males	45,190	1,078	3,570	40,542	24,027	16,515	41.5	44.2
Females	32,765	1,474	8,303	22,988	18,573	4,415	33.7	39.9
Black and other	9,737	516	1,151	8,070	6,632	1,438	36.6	40.2
Males	5,011	182	398	4,431	3,408	1,023	38.8	41.3
Females	4,726	334	753	3,639	3,223	416	34.3	38.8
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	35,355	582	1,162	33,611	19,768	13,843	43.1	44.3
Widowed, divorced, or separated	3,749	131	180	3,438	2,111	1,327	41.9	43.8
Single (never married)	11,097	547	2,626	7,924	5,556	2,368	35.1	42.1
Females, 16 years and over:								
Married, spouse present	21,158	996	5,193	14,969	12,459	2,510	33.9	39.7
Widowed, divorced, or separated	6,956	353	1,014	5,589	4,409	1,180	36.2	40.1
Single (never married)	9,377	460	2,848	6,069	4,928	1,141	31.7	39.7

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

[Numbers in thousands]

Occupational group and sex	February 1979								
	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	88,130	3,092	13,103	71,935	49,427	9,246	13,262	38.1	37.9
White-collar workers	47,090	1,049	7,007	39,034	26,310	4,555	8,169	38.7	42.7
Professional and technical	14,757	237	1,866	12,654	8,328	1,486	2,840	39.5	43.0
Managers and administrators, except farm	9,799	73	436	9,290	4,637	1,363	3,290	45.2	46.5
Sales workers	5,702	233	1,438	4,031	2,357	545	1,129	36.3	43.9
Clerical workers	16,832	506	3,266	13,060	10,988	1,161	911	35.0	39.5
Blue-collar workers	29,053	1,186	2,066	25,801	17,728	3,957	4,116	39.6	42.0
Craft and kindred workers	11,693	347	434	10,912	7,157	1,757	1,998	40.9	42.4
Operatives, except transport	10,136	444	617	9,075	6,649	1,451	975	39.2	41.2
Transport equipment operatives	3,334	138	292	2,904	1,629	416	859	41.9	45.1
Nonfarm laborers	3,890	259	722	2,909	2,291	333	285	34.6	40.0
Service workers	11,987	857	4,030	7,100	5,389	734	977	31.8	41.5
Private household	1,069	143	574	352	251	31	70	22.8	42.2
Other service workers	10,918	714	3,457	6,747	5,138	703	906	32.7	41.5
Males, 16 years and over	50,505	1,278	4,000	45,227	27,569	6,671	10,987	41.2	40.0
White-collar workers	22,309	288	1,483	20,538	11,249	2,791	6,498	43.3	45.4
Professional and technical	8,410	96	544	7,770	4,566	951	2,253	42.7	44.7
Managers and administrators, except farm	7,406	51	183	7,172	3,251	1,076	2,845	46.7	47.5
Sales workers	3,229	64	376	2,789	1,409	413	967	41.8	45.5
Clerical workers	3,264	76	380	2,808	2,026	351	431	38.4	41.6
Blue-collar workers	23,680	814	1,449	21,417	14,084	3,455	3,878	40.3	42.5
Craft and kindred workers	11,019	315	328	10,376	6,754	1,682	1,940	41.2	42.4
Operatives, except transport	6,176	154	344	5,678	3,775	1,069	834	40.7	42.5
Transport equipment operatives	3,068	121	169	2,778	1,538	396	844	43.0	45.3
Nonfarm laborers	3,417	224	608	2,585	2,016	308	261	34.7	40.6
Service workers	4,516	176	1,068	3,272	2,236	425	611	36.0	43.1
Private household	25	7	12	6	4	--	2	21.2	50.8
Other service workers	4,492	169	1,056	3,267	2,233	425	609	36.1	43.1
Females, 16 years and over	37,624	1,814	9,102	26,708	21,859	2,575	2,274	33.8	34.5
White-collar workers	24,780	761	5,524	18,495	15,059	1,764	1,672	34.6	39.8
Professional and technical	6,346	141	1,322	4,883	3,761	536	586	35.1	40.1
Managers and administrators, except farm	2,393	23	253	2,117	1,386	287	444	40.6	43.0
Sales workers	2,473	168	1,062	1,243	949	132	162	29.2	40.2
Clerical workers	13,568	430	2,886	10,252	8,964	810	478	34.2	38.9
Blue-collar workers	5,373	372	616	4,385	3,646	502	237	36.2	39.4
Craft and kindred workers	674	31	106	537	404	75	58	37.2	41.0
Operatives, except transport	3,961	290	272	3,399	2,876	382	141	36.6	39.1
Transport equipment operatives	265	17	124	124	90	20	14	29.1	40.2
Nonfarm laborers	473	34	114	325	276	25	24	33.5	39.8
Service workers	7,471	681	2,962	3,828	3,154	309	365	29.3	40.1
Private household	1,044	136	562	346	246	31	69	22.9	42.0
Other service workers	6,426	544	2,400	3,482	2,907	278	297	30.4	39.9

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

[Numbers in thousands]

Employment status	February 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	8,025	4,084	3,941	6,713	3,425	3,288	1,312	659	652
Civilian labor force	1,250	652	599	1,185	619	566	65	33	32
Employed	1,106	566	540	1,064	544	520	41	22	20
Agriculture	70	54	16	69	53	16	--	--	--
Nonagricultural industries	1,036	512	524	995	491	504	41	21	20
Unemployed	145	86	59	121	75	46	23	11	13
Unemployment rate	11.6	13.2	9.9	10.2	12.1	8.1	(1)	(1)	(1)
Not in labor force	6,774	3,432	3,342	5,528	2,806	2,722	1,247	627	620
Keeping house	38	7	32	30	6	24	9	1	8
Going to school	6,569	3,322	3,247	5,361	2,718	2,643	1,208	604	603
Unable to work	8	5	3	7	4	2	1	--	1
All other reasons	159	99	60	130	78	52	29	21	8

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

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

Characteristics	February 1979					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,106	566	540	100.0	100.0	100.0
Nonagricultural industries	1,036	512	524	93.7	90.6	97.2
Wage and salary workers	939	434	505	84.9	76.8	93.7
Private household workers	363	66	296	32.8	11.7	54.9
Government workers	46	29	17	4.2	5.1	3.2
Other wage and salary workers	531	339	191	48.0	60.0	35.4
Self-employed workers	93	75	18	8.4	13.3	3.3
Unpaid family workers	3	2	1	.3	.4	.2
Agriculture	70	54	16	6.3	9.6	3.0
Wage and salary workers	41	33	8	3.7	5.8	1.5
Self-employed workers	4	4	--	.4	.7	--
Unpaid family workers	25	17	8	2.3	3.0	1.5
OCCUPATION						
Total	1,106	566	540	100.0	100.0	100.0
White-collar workers	333	214	118	30.1	37.7	21.9
Professional and technical	15	10	5	1.4	1.8	.9
Managers and administrators, except farm	1	1	--	.1	.2	--
Sales workers	244	182	62	22.1	32.1	11.5
Clerical workers	73	22	51	6.6	3.9	9.4
Blue-collar workers	137	126	11	12.4	22.2	2.0
Craft and kindred workers	23	23	--	2.1	4.1	--
Operatives, except transport	23	18	6	2.1	3.2	1.1
Transport equipment operatives	1	1	--	.1	.2	--
Nonfarm laborers	90	85	5	8.1	15.0	.9
Service workers	568	172	396	51.4	30.3	73.3
Private household workers	325	32	293	29.4	5.6	54.3
Other service workers	242	140	103	21.9	24.7	19.1
Farm workers	68	53	15	6.1	9.3	2.8
Farmers and farm managers	4	3	--	.4	.5	--
Farm laborers and supervisors	65	50	15	5.9	8.8	2.8

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[Numbers in thousands]

Employment status	1978											1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
TOTAL													
Total noninstitutional population ¹	160,128	160,313	160,504	160,713	160,928	161,148	161,348	161,570	161,829	162,033	162,250	162,448	162,633
Armed Forces ¹	2,124	2,122	2,118	2,113	2,098	2,116	2,122	2,123	2,122	2,117	2,108	2,094	2,094
Civilian noninstitutional population ¹	158,004	158,190	158,386	158,601	158,830	159,032	159,226	159,447	159,707	159,916	160,142	160,353	160,539
Civilian labor force	99,139	99,435	99,767	100,109	100,504	100,622	100,663	100,974	101,077	101,628	101,867	102,133	102,527
Percent of civilian population	62.7	62.9	63.0	63.1	63.3	63.3	63.2	63.3	63.3	63.6	63.6	63.7	63.9
Employed	93,047	93,282	93,704	93,953	94,640	94,446	94,723	95,010	95,241	95,751	95,855	96,300	96,647
Percent of total population	58.1	58.2	58.4	58.5	58.8	58.6	58.7	58.8	58.9	59.1	59.1	59.3	59.4
Agriculture	3,280	3,334	3,274	3,243	3,424	3,377	3,351	3,406	3,374	3,275	3,387	3,232	3,311
Nonagricultural industries	89,767	89,948	90,430	90,710	91,216	91,069	91,372	91,604	91,867	92,476	92,468	93,068	93,335
Unemployed	6,092	6,153	6,063	6,156	5,864	6,176	5,940	5,964	5,836	5,877	6,012	5,883	5,881
Unemployment rate	6.1	6.2	6.1	6.1	5.8	6.1	5.9	5.9	5.8	5.8	5.9	5.8	5.7
Not in labor force	58,865	58,755	58,619	58,492	58,326	58,410	58,563	58,473	58,630	58,288	58,275	58,170	58,012
Males, 20 years and over													
Total noninstitutional population ¹	66,240	68,327	68,419	68,519	68,623	68,729	68,827	68,937	69,081	69,182	69,288	69,385	69,476
Civilian noninstitutional population ¹	66,556	66,645	66,740	66,845	66,947	67,039	67,127	67,236	67,382	67,486	67,600	67,726	67,816
Civilian labor force	53,161	53,235	53,276	53,383	53,449	53,401	53,396	53,459	53,593	53,938	54,033	54,333	54,485
Percent of civilian population	79.9	79.9	79.8	79.9	79.8	79.7	79.5	79.5	79.5	79.9	79.9	80.2	80.3
Employed	50,785	50,841	50,997	51,119	51,337	51,214	51,215	51,287	51,448	51,825	51,838	52,133	52,331
Percent of total population	74.4	74.4	74.5	74.6	74.5	74.5	74.4	74.4	74.5	74.9	74.8	75.1	75.3
Agriculture	2,310	2,320	2,309	2,324	2,406	2,396	2,357	2,409	2,363	2,337	2,403	2,293	2,324
Nonagricultural industries	48,475	48,521	48,688	48,795	48,931	48,818	48,858	48,878	49,085	49,488	49,435	49,841	50,007
Unemployed	2,376	2,394	2,279	2,264	2,112	2,187	2,181	2,172	2,145	2,113	2,195	2,200	2,154
Unemployment rate	4.5	4.5	4.3	4.2	4.0	4.1	4.1	4.1	4.0	3.9	4.1	4.0	4.0
Not in labor force	13,395	13,410	13,464	13,462	13,498	13,638	13,731	13,777	13,789	13,548	13,567	13,393	13,331
Females, 20 years and over													
Total noninstitutional population ¹	75,095	75,196	75,300	75,412	75,527	75,643	75,753	75,873	75,998	76,110	76,227	76,337	76,440
Civilian noninstitutional population ¹	74,996	75,093	75,198	75,310	75,422	75,537	75,645	75,764	75,889	76,001	76,119	76,228	76,332
Civilian labor force	36,652	36,847	37,085	37,208	37,392	37,573	37,543	37,521	37,860	38,095	38,217	38,185	38,429
Percent of civilian population	48.9	49.1	49.3	49.4	49.6	49.7	49.6	49.5	49.9	50.1	50.2	50.1	50.3
Employed	34,540	34,678	34,874	34,886	35,098	35,160	35,312	35,691	35,726	35,887	35,990	36,019	36,252
Percent of total population	46.0	46.1	46.3	46.3	46.5	46.5	46.6	47.0	47.0	47.2	47.2	47.2	47.4
Agriculture	60.1	62.1	60.0	53.6	60.8	59.3	58.1	59.7	58.7	57.1	59.1	58.6	60.8
Nonagricultural industries	33,939	34,057	34,274	34,350	34,490	34,567	34,731	35,094	35,139	35,316	35,399	35,433	35,644
Unemployed	2,112	2,169	2,211	2,322	2,294	2,413	2,231	2,230	2,134	2,208	2,227	2,166	2,177
Unemployment rate	5.8	5.9	6.0	6.2	6.1	6.4	5.9	5.9	5.6	5.8	5.8	5.7	5.7
Not in labor force	36,344	38,246	38,113	38,102	38,030	37,964	38,102	37,843	38,029	37,906	37,902	38,043	37,903
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,794	16,790	16,785	16,782	16,779	16,776	16,768	16,760	16,750	16,741	16,734	16,725	16,717
Civilian noninstitutional population ¹	16,453	16,452	16,449	16,446	16,461	16,455	16,455	16,446	16,436	16,429	16,422	16,400	16,391
Civilian labor force	9,326	9,353	9,406	9,518	9,663	9,648	9,724	9,594	9,624	9,595	9,617	9,665	9,613
Percent of civilian population	56.7	56.9	57.2	57.9	58.7	58.6	59.1	58.3	58.6	58.4	58.6	58.9	58.6
Employed	7,722	7,763	7,833	7,948	8,205	8,072	8,156	8,032	8,067	8,039	8,027	8,148	8,064
Percent of total population	46.0	46.2	46.7	47.4	48.9	48.1	48.9	47.9	48.2	48.0	48.0	48.7	48.2
Agriculture	369	393	365	383	410	388	413	400	424	367	393	354	380
Nonagricultural industries	7,353	7,370	7,468	7,565	7,795	7,684	7,783	7,632	7,643	7,672	7,634	7,794	7,684
Unemployed	1,604	1,590	1,573	1,570	1,458	1,576	1,528	1,562	1,557	1,556	1,590	1,517	1,549
Unemployment rate	17.2	17.0	16.7	16.5	15.1	16.3	15.7	16.3	16.2	16.2	16.5	15.7	16.1
Not in labor force	7,127	7,099	7,043	6,928	6,798	6,807	6,731	6,852	6,812	6,834	6,805	6,735	6,778

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 employment status	1978												1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
FULL TIME														
Total, 16 years and over:														
Civilian labor force	84,485	84,628	84,842	84,957	85,965	85,894	86,030	85,899	86,185	86,391	86,631	87,025	87,373	
Employed	79,649	79,850	80,166	80,175	81,436	81,004	81,389	81,247	81,680	81,900	82,034	82,525	82,789	
Unemployed	4,836	4,778	4,676	4,782	4,529	4,890	4,641	4,652	4,505	4,491	4,597	4,500	4,584	
Unemployment rate	5.7	5.6	5.5	5.6	5.3	5.7	5.4	5.4	5.2	5.2	5.3	5.2	5.2	
PART TIME														
Total, 16 years and over:														
Civilian labor force	14,712	14,782	14,880	15,106	14,506	14,749	14,720	14,952	14,996	15,150	15,205	15,196	15,213	
Employed	13,452	13,388	13,481	13,717	13,206	13,431	13,436	13,635	13,642	13,800	13,802	13,810	13,907	
Unemployed	1,260	1,394	1,399	1,389	1,300	1,318	1,284	1,317	1,354	1,350	1,403	1,385	1,306	
Unemployment rate	8.6	9.4	9.4	9.2	9.0	8.9	8.7	8.8	9.0	8.9	9.2	9.1	8.6	

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

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

[Numbers in thousands]

Characteristics	1978												1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
WHITE														
Total, 16 years and over:														
Civilian labor force	87,423	87,554	87,902	88,168	88,626	88,503	88,655	88,862	89,067	89,468	89,747	90,093	90,395	
Employed	82,718	82,902	83,303	83,499	84,171	83,857	84,060	84,250	84,565	85,013	85,125	85,543	85,941	
Unemployed	4,705	4,652	4,599	4,669	4,455	4,646	4,595	4,612	4,502	4,455	4,622	4,550	4,453	
Unemployment rate	5.4	5.3	5.2	5.3	5.0	5.2	5.2	5.2	5.1	5.0	5.2	5.1	4.9	
Males, 20 years and over:														
Civilian labor force	47,492	47,525	47,577	47,668	47,810	47,710	47,707	47,684	47,751	48,103	48,202	48,466	48,639	
Employed	45,640	45,649	45,837	45,915	46,144	45,952	45,996	45,968	46,098	46,477	46,492	46,737	47,006	
Unemployed	1,852	1,876	1,740	1,753	1,666	1,758	1,711	1,716	1,653	1,626	1,710	1,729	1,633	
Unemployment rate	3.9	3.9	3.7	3.7	3.5	3.6	3.6	3.6	3.5	3.4	3.5	3.6	3.4	
Females, 20 years and over:														
Civilian labor force	31,619	31,701	31,955	32,055	32,214	32,343	32,265	32,602	32,677	32,809	32,981	32,978	33,225	
Employed	29,979	30,123	30,279	30,303	30,490	30,565	30,574	30,912	31,074	31,161	31,287	31,340	31,567	
Unemployed	1,640	1,578	1,676	1,752	1,724	1,778	1,691	1,690	1,603	1,648	1,694	1,638	1,658	
Unemployment rate	5.2	5.0	5.2	5.5	5.4	5.5	5.2	5.2	4.9	5.0	5.1	5.0	5.0	
Both sexes, 16 to 19 years:														
Civilian labor force	8,312	8,328	8,370	8,445	8,602	8,450	8,683	8,576	8,599	8,556	8,564	8,649	8,531	
Employed	7,099	7,130	7,187	7,281	7,537	7,300	7,490	7,370	7,393	7,375	7,346	7,466	7,368	
Unemployed	1,213	1,198	1,183	1,164	1,065	1,150	1,193	1,206	1,206	1,181	1,218	1,183	1,163	
Unemployment rate	14.6	14.4	14.1	13.8	12.4	13.6	13.7	14.1	14.0	13.8	14.2	13.7	13.6	
BLACK AND OTHER														
Total, 16 years and over:														
Civilian labor force	11,773	11,852	11,802	11,906	11,974	12,010	11,994	12,084	12,122	12,163	12,153	12,077	12,228	
Employed	10,369	10,372	10,391	10,437	10,537	10,533	10,616	10,721	10,749	10,746	10,758	10,725	10,775	
Unemployed	1,404	1,480	1,411	1,469	1,437	1,477	1,378	1,363	1,373	1,417	1,395	1,352	1,452	
Unemployment rate	11.9	12.5	12.0	12.3	12.0	12.3	11.5	11.3	11.3	11.7	11.5	11.2	11.9	
Males, 20 years and over:														
Civilian labor force	5,652	5,688	5,665	5,713	5,721	5,703	5,692	5,759	5,808	5,829	5,867	5,810	5,841	
Employed	5,154	5,189	5,158	5,208	5,250	5,228	5,195	5,286	5,327	5,345	5,376	5,356	5,339	
Unemployed	498	499	507	505	471	475	497	473	481	484	491	455	502	
Unemployment rate	8.8	8.8	8.9	8.8	8.2	8.3	8.7	8.2	8.3	8.3	8.4	7.8	8.6	
Females, 20 years and over:														
Civilian labor force	5,080	5,126	5,114	5,142	5,191	5,172	5,266	5,287	5,277	5,266	5,224	5,223	5,279	
Employed	4,571	4,546	4,572	4,580	4,615	4,580	4,722	4,759	4,743	4,723	4,691	4,667	4,722	
Unemployed	509	580	542	562	576	592	544	528	534	543	533	556	557	
Unemployment rate	10.0	11.3	10.6	10.9	11.1	11.4	10.3	10.0	10.1	10.3	10.2	10.6	10.6	
Both sexes, 16 to 19 years:														
Civilian labor force	1,041	1,038	1,023	1,051	1,062	1,135	1,036	1,038	1,037	1,068	1,062	1,044	1,107	
Employed	644	637	661	649	672	725	699	676	679	678	691	703	714	
Unemployed	397	401	362	402	390	410	337	362	358	390	371	341	393	
Unemployment rate	38.1	38.6	35.4	38.2	36.7	36.1	32.5	34.9	34.5	36.5	34.9	32.7	35.5	

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Selected categories	1978												1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
CHARACTERISTICS														
Total (all civilian workers)	6.1	6.2	6.1	6.1	5.8	6.1	5.9	5.9	5.8	5.8	5.9	5.8	5.7	
Males, 20 years and over	4.5	4.5	4.3	4.2	4.0	4.1	4.1	4.1	4.0	3.9	4.1	4.0	4.0	
Females, 20 years and over	5.8	5.9	6.0	6.2	6.1	6.4	5.9	5.9	5.6	5.8	5.8	5.7	5.7	
Both sexes, 16-19 years	17.2	17.0	16.7	16.5	15.1	16.3	15.7	16.3	16.2	16.2	16.5	15.7	16.1	
White	5.4	5.3	5.2	5.3	5.0	5.2	5.2	5.2	5.1	5.0	5.2	5.1	4.9	
Black and other	11.9	12.5	12.0	12.3	12.0	12.3	11.5	11.3	11.3	11.7	11.5	11.2	11.9	
Married men, spouse present	2.9	3.0	2.8	2.9	2.7	2.7	2.8	2.6	2.6	2.4	2.5	2.6	2.6	
Married women, spouse present	5.3	5.2	5.1	6.0	5.6	5.5	5.6	5.5	5.3	5.5	5.6	5.3	5.1	
Women who head families	7.7	8.7	10.1	9.3	8.8	9.8	8.0	8.0	7.5	7.7	7.7	7.8	8.3	
Full-time workers	5.7	5.6	5.5	5.6	5.3	5.7	5.4	5.4	5.2	5.2	5.3	5.2	5.2	
Part-time workers	8.6	9.4	9.4	9.2	9.0	8.9	8.7	8.8	9.0	8.9	9.2	9.1	8.6	
Unemployed 15 weeks and over ¹	1.6	1.5	1.5	1.4	1.3	1.3	1.2	1.3	1.3	1.2	1.2	1.2	1.2	
Labor force time lost ²	6.6	6.7	6.5	6.6	6.5	6.8	6.5	6.4	6.2	6.2	6.2	6.2	6.2	
OCCUPATION														
White-collar workers	3.6	3.5	3.6	3.7	3.6	3.7	3.5	3.5	3.3	3.2	3.5	3.3	3.4	
Professional and technical	2.5	2.6	2.5	2.5	2.5	2.5	2.6	2.6	2.8	2.4	3.0	2.5	2.3	
Managers and administrators, except farm	1.9	2.2	2.0	2.1	1.9	2.2	1.9	2.2	1.8	2.2	1.9	2.0	1.9	
Sales workers	4.4	4.4	4.3	4.5	4.4	4.3	4.1	4.3	4.1	3.1	3.6	3.8	4.3	
Clerical workers	5.1	4.6	5.1	5.3	5.1	5.3	4.9	4.7	4.2	4.5	4.6	4.6	4.7	
Blue-collar workers	7.2	7.2	6.7	6.7	6.6	6.7	6.9	6.8	6.8	6.4	6.6	6.4	6.4	
Craft and kindred workers	5.0	5.0	4.4	4.4	4.3	4.0	4.5	4.7	4.9	4.0	4.7	4.5	4.7	
Operatives, except transport	8.3	8.2	8.0	8.4	8.1	8.2	8.8	8.1	7.6	7.5	7.7	7.6	7.6	
Transport equipment operatives	5.1	5.3	5.5	5.6	4.9	5.7	5.6	5.2	4.8	4.2	5.3	4.9	5.0	
Nonfarm laborers	11.3	11.7	10.3	8.8	10.2	10.6	9.7	10.5	11.0	11.6	11.0	9.4	9.3	
Service workers	7.2	7.7	7.7	7.6	7.2	7.4	7.1	7.4	7.1	7.4	7.7	7.9	7.1	
Farm workers	4.1	4.5	3.2	3.6	3.2	3.9	3.6	3.9	4.6	3.2	3.4	2.8	3.6	
INDUSTRY														
Nonagricultural private wage and salary workers ³	6.1	6.1	5.9	6.0	5.7	6.0	5.8	5.8	5.6	5.6	5.8	5.7	5.6	
Construction	11.2	11.0	9.8	9.6	9.5	9.6	9.4	10.6	11.2	10.8	12.1	10.6	11.5	
Manufacturing	5.8	5.6	5.4	5.7	5.6	5.5	5.6	5.3	5.1	5.1	5.0	5.0	4.8	
Durable goods	5.1	5.0	4.5	5.1	4.9	5.0	5.4	4.8	4.6	4.6	4.4	4.4	4.1	
Non-durable goods	6.7	6.4	6.5	6.5	6.6	6.6	5.8	6.1	6.0	5.8	6.0	5.9	5.8	
Transportation	3.3	3.9	3.8	3.9	3.9	4.1	3.8	3.6	3.4	3.3	3.3	3.5	3.0	
Wholesale and retail trade	7.2	7.3	7.1	6.9	6.4	6.8	6.5	6.7	6.7	6.5	6.8	6.5	6.6	
Finance and service industries	5.2	5.2	5.2	5.2	4.8	5.4	5.2	5.1	4.6	5.0	5.1	5.1	4.8	
Government workers	3.5	3.8	3.9	4.0	4.0	4.1	3.6	3.9	3.9	3.9	4.0	4.0	3.7	
Agricultural wage and salary workers	9.7	9.7	7.9	7.9	8.4	9.6	8.7	8.7	9.5	7.9	7.7	7.2	8.9	

¹ Unemployment as a percent of civilian labor force.

as a percent of potentially available labor force hours.

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

³ Includes mining, not shown separately.

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

[Numbers in thousands]

Weeks of unemployment	1978												1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
DURATION														
Both sexes, 16 years and over:														
Less than 5 weeks	2,649	2,789	2,747	2,862	2,772	2,967	2,795	2,783	2,719	2,833	2,876	2,713	2,743	
5 to 14 weeks	1,880	1,909	1,856	1,842	1,908	1,873	1,895	1,861	1,789	1,774	1,979	1,877	1,870	
15 weeks and over	1,559	1,488	1,486	1,404	1,266	1,314	1,234	1,268	1,317	1,196	1,208	1,251	1,260	
15 to 26 weeks	894	787	809	723	674	668	625	663	732	685	726	728	712	
27 weeks and over	665	701	677	681	592	646	609	605	585	511	482	523	548	
Average (mean) duration, in weeks	12.6	12.4	12.4	12.2	12.0	11.8	11.4	11.5	11.8	11.0	10.7	11.2	11.3	
Median duration, in weeks	7.1	6.2	5.9	5.3	6.0	6.0	6.0	5.9	5.9	5.4	5.6	5.9	6.3	
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	43.5	45.1	45.1	46.9	46.6	48.2	47.2	47.1	46.7	48.8	47.4	46.4	46.7	
5 to 14 weeks	30.9	30.9	30.5	30.2	32.1	30.4	32.0	31.5	30.7	30.6	32.6	32.1	31.8	
15 weeks and over	25.6	24.1	24.4	23.0	21.3	21.4	20.8	21.4	22.6	20.6	19.9	21.4	21.4	
15 to 26 weeks	14.7	12.7	13.3	11.8	11.3	10.9	10.6	11.2	12.6	11.8	12.0	12.5	12.1	
27 weeks and over	10.9	11.3	11.1	11.1	10.0	10.5	10.3	10.2	10.0	8.8	7.9	9.0	9.3	

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

Sex and age	1978											1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
Total, 16 years and over	6.1	6.2	6.1	6.1	5.8	6.1	5.9	5.9	5.8	5.8	5.9	5.8	5.7
16 to 19 years	17.2	17.0	16.7	16.5	15.1	16.3	15.7	16.3	16.2	16.2	16.5	15.7	16.1
16 to 17 years	20.5	20.1	19.6	19.1	17.1	20.0	18.6	19.2	19.2	19.3	20.2	18.4	18.4
18 to 19 years	14.9	15.0	14.4	14.6	13.4	13.9	13.5	14.0	14.0	14.0	13.8	13.6	14.6
20 to 24 years	10.1	10.2	10.0	9.1	9.4	9.9	9.0	9.3	8.6	9.0	9.3	8.6	8.6
25 years and over	4.0	4.0	4.0	4.2	3.9	4.1	4.1	4.0	3.9	3.8	3.9	3.9	3.9
25 to 54 years	4.2	4.3	4.2	4.5	4.1	4.3	4.3	4.1	4.2	4.0	4.2	4.2	4.1
55 years and over	3.3	3.2	3.2	3.3	3.2	3.2	3.0	3.3	3.0	2.9	2.9	2.9	3.0
Males, 16 years and over	5.5	5.6	5.3	5.2	4.8	5.1	5.0	5.1	5.1	5.0	5.1	5.1	5.0
16 to 19 years	16.9	16.7	16.3	15.3	13.7	15.4	14.8	15.5	16.1	15.9	16.7	16.1	16.5
16 to 17 years	20.8	20.2	19.5	18.4	16.8	18.6	17.7	19.1	19.9	20.1	20.7	19.1	19.2
18 to 19 years	14.1	14.1	13.4	13.1	12.0	13.0	12.5	12.6	13.2	12.7	13.6	13.5	14.7
20 to 24 years	10.1	10.0	9.3	8.0	8.4	8.9	8.8	8.6	8.5	8.5	8.9	8.4	8.2
25 years and over	3.4	3.5	3.4	3.5	3.1	3.3	3.3	3.3	3.1	3.2	3.2	3.2	3.2
25 to 54 years	3.5	3.6	3.4	3.5	3.2	3.3	3.5	3.4	3.4	3.2	3.4	3.3	3.2
55 years and over	3.2	3.2	3.3	3.3	3.1	3.4	2.9	3.0	2.8	2.5	2.6	2.8	2.8
Females, 16 years and over	7.0	7.1	7.2	7.5	7.3	7.6	7.1	7.1	6.8	6.9	6.9	6.7	6.7
16 to 19 years	17.6	17.4	17.2	17.8	16.6	17.4	16.8	17.1	16.3	16.5	16.3	15.3	15.7
16 to 17 years	20.1	19.9	19.7	20.0	17.6	21.6	19.7	19.4	18.4	18.3	19.6	17.5	17.4
18 to 19 years	15.8	15.9	15.5	16.2	15.0	14.8	14.6	15.6	14.8	15.5	14.1	13.6	14.4
20 to 24 years	10.0	10.4	10.8	10.5	10.5	11.0	9.2	10.1	8.7	9.6	9.7	8.9	9.1
25 years and over	4.8	4.9	4.9	5.4	5.1	5.4	5.2	4.9	4.9	4.9	5.0	5.0	4.9
25 to 54 years	5.2	5.3	5.3	5.9	5.6	5.8	5.6	5.2	5.2	5.2	5.3	5.4	5.3
55 years and over	3.3	3.2	3.1	3.2	3.2	2.9	3.2	3.8	3.3	3.5	3.3	3.1	3.3

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

(Numbers in thousands)

Reason for unemployment	1978											1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	2,589	2,562	2,556	2,614	2,379	2,536	2,455	2,362	2,456	2,372	2,442	2,454	2,481
On layoff	719	691	637	701	636	696	700	683	644	746	715	753	792
Other job losers	1,870	1,871	1,919	1,913	1,743	1,840	1,759	1,679	1,812	1,626	1,727	1,701	1,689
Job leavers	896	858	877	828	853	855	840	849	812	825	871	927	829
Reentrants	1,802	1,878	1,750	1,793	1,785	1,870	1,743	1,930	1,721	1,754	1,937	1,692	1,756
New entrants	880	912	905	892	816	871	875	816	825	872	826	823	874
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	42.0	41.3	42.0	42.7	40.8	41.4	41.6	39.7	42.2	40.7	40.2	41.6	41.8
On layoff	11.7	11.1	10.5	11.4	10.9	11.4	11.8	11.5	11.1	12.8	11.8	12.8	13.3
Other job losers	30.3	30.1	31.5	31.2	29.9	30.0	29.7	28.2	31.2	27.9	28.4	28.9	28.4
Job leavers	14.5	13.8	14.4	13.5	14.6	13.9	14.2	14.3	14.0	14.2	14.3	15.7	14.0
Reentrants	29.2	30.2	28.7	29.3	30.6	30.5	29.5	32.4	29.6	30.1	31.9	28.7	29.6
New entrants	14.3	14.7	14.9	14.6	14.0	14.2	14.8	13.7	14.2	15.0	13.6	14.0	14.7
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.6	2.6	2.6	2.6	2.4	2.5	2.4	2.3	2.4	2.3	2.4	2.4	2.4
On layoff .....	.9	.9	.9	.8	.8	.8	.8	.8	.8	.8	.9	.9	.8
Other job losers	1.8	1.9	1.8	1.8	1.8	1.9	1.7	1.9	1.7	1.7	1.9	1.7	1.7
Job leavers .....	.9	.9	.9	.9	.8	.9	.9	.8	.8	.9	.8	.8	.9

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[In thousands]

Sex and age	1978												1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
Total, 16 years and over	93,047	93,282	93,704	93,953	94,640	94,446	94,723	95,010	95,241	95,751	95,855	96,300	96,647	
16 to 19 years	7,722	7,763	7,833	7,948	8,205	8,072	8,196	8,032	8,067	8,039	8,027	8,148	8,064	
16 to 17 years	3,158	3,145	3,222	3,282	3,365	3,287	3,370	3,293	3,308	3,276	3,300	3,354	3,372	
18 to 19 years	4,605	4,601	4,643	4,665	4,789	4,736	4,814	4,749	4,773	4,763	4,730	4,835	4,731	
20 to 24 years	13,193	13,222	13,385	13,432	13,532	13,483	13,626	13,666	13,773	13,701	13,760	13,859	13,992	
25 years and over	72,142	72,276	72,497	72,557	72,879	72,922	72,761	73,332	73,530	73,976	74,070	74,299	74,641	
25 to 54 years	58,126	58,261	58,395	58,378	58,645	58,789	58,750	59,151	59,329	59,630	59,781	59,903	60,193	
55 years and over	14,016	14,014	14,107	14,107	14,239	14,148	14,114	14,124	14,137	14,340	14,327	14,394	14,452	
Males, 16 years and over	54,943	55,042	55,184	55,372	55,766	55,531	55,580	55,594	55,754	56,096	56,072	56,449	56,549	
16 to 19 years	4,158	4,201	4,187	4,253	4,429	4,317	4,365	4,307	4,306	4,271	4,234	4,316	4,218	
16 to 17 years	1,723	1,759	1,738	1,778	1,831	1,766	1,810	1,775	1,751	1,734	1,744	1,795	1,779	
18 to 19 years	2,463	2,448	2,481	2,455	2,558	2,520	2,562	2,549	2,558	2,559	2,494	2,541	2,455	
20 to 24 years	7,139	7,200	7,306	7,348	7,371	7,304	7,378	7,378	7,432	7,478	7,443	7,541	7,585	
25 years and over	43,641	43,622	43,699	43,772	43,934	43,894	43,807	43,950	44,026	44,340	44,411	44,589	44,772	
25 to 54 years	34,949	34,957	35,019	35,046	35,121	35,183	35,087	35,237	35,261	35,481	35,560	35,709	35,845	
55 years and over	8,676	8,676	8,676	8,702	8,801	8,721	8,719	8,711	8,760	8,867	8,872	8,896	8,901	
Females, 16 years and over	38,104	38,240	38,520	38,581	38,874	38,915	39,143	39,416	39,487	39,655	39,783	39,851	40,098	
16 to 19 years	3,564	3,562	3,646	3,695	3,776	3,755	3,831	3,725	3,761	3,768	3,793	3,832	3,846	
16 to 17 years	1,435	1,386	1,484	1,504	1,534	1,521	1,560	1,518	1,557	1,542	1,556	1,559	1,593	
18 to 19 years	2,142	2,153	2,162	2,210	2,231	2,246	2,252	2,200	2,215	2,224	2,236	2,294	2,276	
20 to 24 years	6,054	6,022	6,079	6,084	6,161	6,179	6,248	6,288	6,341	6,223	6,317	6,318	6,407	
25 years and over	28,501	28,654	28,798	28,785	28,945	29,028	28,954	29,382	29,504	29,636	29,659	29,710	29,869	
25 to 54 years	23,177	23,304	23,376	23,332	23,524	23,606	23,663	23,954	24,068	24,145	24,221	24,194	24,348	
55 years and over	5,340	5,338	5,431	5,405	5,438	5,427	5,395	5,413	5,377	5,473	5,455	5,496	5,551	

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

[In thousands]

Sex and age	1978												1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
Total, 16 years and over	6,092	6,153	6,063	6,156	5,864	6,176	5,940	5,564	5,836	5,877	6,012	5,883	5,681	
16 to 19 years	1,604	1,590	1,573	1,570	1,458	1,576	1,528	1,562	1,557	1,556	1,590	1,517	1,549	
16 to 17 years	613	790	785	777	696	824	772	783	786	781	834	755	758	
18 to 19 years	866	810	779	796	742	763	751	773	775	778	759	758	807	
20 to 24 years	1,477	1,501	1,482	1,351	1,399	1,479	1,343	1,399	1,298	1,361	1,406	1,310	1,316	
25 years and over	2,992	3,044	3,016	3,215	2,991	3,152	3,088	3,025	3,015	2,951	3,015	3,049	2,998	
25 to 54 years	2,532	2,611	2,536	2,740	2,538	2,648	2,660	2,553	2,569	2,514	2,615	2,607	2,566	
55 years and over	476	459	470	474	464	465	436	478	438	428	424	435	449	
Males, 16 years and over	3,221	3,235	3,096	3,032	2,816	2,971	2,937	2,965	2,971	2,923	3,044	3,026	2,989	
16 to 19 years	845	841	817	768	704	784	756	793	826	810	849	826	835	
16 to 17 years	453	445	421	401	369	404	389	418	436	436	455	424	423	
18 to 19 years	403	402	383	370	348	378	367	367	390	371	391	397	424	
20 to 24 years	802	800	747	640	679	712	708	656	693	699	730	693	674	
25 years and over	1,551	1,582	1,533	1,575	1,426	1,487	1,506	1,495	1,505	1,413	1,469	1,493	1,459	
25 to 54 years	1,261	1,304	1,223	1,286	1,145	1,185	1,256	1,226	1,237	1,168	1,249	1,231	1,202	
55 years and over	291	283	299	296	286	305	257	265	253	230	235	258	257	
Females, 16 years and over	2,871	2,918	2,967	3,124	3,048	3,205	3,003	2,599	2,865	2,954	2,968	2,857	2,891	
16 to 19 years	759	749	756	802	754	792	772	769	731	746	741	691	714	
16 to 17 years	360	345	364	376	327	420	383	365	350	345	379	331	335	
18 to 19 years	403	408	396	426	394	385	384	406	385	407	368	361	383	
20 to 24 years	675	701	735	711	720	767	635	703	605	662	676	618	642	
25 years and over	1,441	1,462	1,483	1,640	1,565	1,665	1,582	1,530	1,510	1,538	1,546	1,555	1,539	
25 to 54 years	1,271	1,307	1,313	1,454	1,393	1,463	1,404	1,325	1,332	1,326	1,366	1,376	1,364	
55 years and over	185	176	171	178	178	160	179	213	185	198	189	177	192	

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(In thousands)

Selected categories	1978											1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
CHARACTERISTICS													
Total, 16 years and over	93,047	93,282	93,704	93,953	94,640	94,446	94,723	95,010	95,241	95,751	95,855	96,300	96,647
Married men, spouse present	38,677	38,459	38,575	38,596	38,621	38,635	38,534	38,782	38,806	38,944	39,039	39,202	39,374
Married women, spouse present	21,704	21,672	21,713	21,694	21,749	21,837	21,737	22,133	22,194	22,274	22,297	22,410	22,632
OCCUPATION													
White-collar workers	46,582	46,763	46,795	46,885	47,225	47,276	47,325	47,550	47,713	47,888	48,040	48,275	49,001
Professional and technical	14,062	14,087	14,166	14,356	14,318	14,245	14,246	14,182	14,307	14,297	14,629	14,743	15,034
Managers and administrators, except farm	10,116	10,136	10,184	9,972	10,146	10,212	10,160	10,062	9,968	10,030	10,217	10,322	10,414
Sales workers	5,836	5,939	5,856	5,903	5,922	5,952	5,892	5,898	5,986	6,192	6,092	6,055	6,141
Clerical workers	16,568	16,601	16,569	16,654	16,839	16,823	17,007	17,408	17,452	17,369	17,102	17,154	17,412
Blue-collar workers	31,140	31,085	31,452	31,477	31,554	31,282	31,506	31,891	31,966	32,202	31,962	32,491	32,331
Craft and kindred workers	12,181	12,181	12,277	12,233	12,429	12,220	12,557	12,628	12,556	12,646	12,610	12,842	12,932
Operatives, except transport	10,690	10,741	10,875	10,798	10,924	10,877	10,741	10,981	11,178	11,177	10,887	11,047	10,953
Transport equipment, operatives	3,631	3,529	3,539	3,508	3,501	3,487	3,429	3,573	3,581	3,640	3,640	3,678	3,618
Nonfarm laborers	4,638	4,634	4,761	4,938	4,700	4,698	4,779	4,709	4,671	4,739	4,825	4,924	4,829
Service workers	12,723	12,666	12,814	12,838	12,987	12,803	12,866	12,754	12,951	13,009	13,007	12,777	12,770
Farm workers	2,784	2,799	2,726	2,708	2,874	2,797	2,794	2,855	2,821	2,739	2,826	2,759	2,742
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,366	1,398	1,406	1,434	1,443	1,386	1,423	1,442	1,423	1,424	1,478	1,365	1,429
Self-employed workers	1,595	1,558	1,555	1,577	1,664	1,641	1,611	1,648	1,638	1,563	1,625	1,547	1,550
Unpaid family workers	322	382	295	250	328	340	319	307	323	293	318	293	348
Nonagricultural industries:													
Wage and salary workers	83,054	83,150	83,622	84,016	84,456	84,064	84,508	84,786	85,363	85,578	85,579	86,169	86,346
Government	15,253	15,213	15,324	15,238	15,255	15,184	15,275	15,336	15,387	15,373	15,360	15,217	15,293
Private industries	67,801	67,937	68,298	68,778	69,201	68,880	69,233	69,450	69,976	70,205	70,219	70,952	71,053
Private households	1,401	1,300	1,395	1,410	1,370	1,371	1,368	1,361	1,315	1,335	1,316	1,245	1,334
Other industries	66,400	66,637	66,903	67,368	67,831	67,509	67,865	68,089	68,661	68,870	68,903	69,707	69,719
Self-employed workers	6,260	6,389	6,443	6,274	6,216	6,216	6,219	6,224	6,314	6,370	6,515	6,529	6,632
Unpaid family workers	482	488	499	497	466	485	448	470	453	455	460	478	456
PERSONS AT WORK¹													
Nonagricultural industries	84,096	84,434	85,797	85,401	86,011	86,102	86,350	86,329	86,511	86,653	87,046	87,490	87,592
Full-time schedules	69,211	69,495	70,481	70,090	70,723	70,929	71,205	71,085	71,318	71,394	71,787	72,209	72,250
Part-time for economic reasons	3,203	3,184	3,310	3,247	3,433	3,316	3,298	3,203	3,164	3,131	3,058	3,159	3,147
Usually work full-time	1,160	1,238	1,231	1,211	1,409	1,347	1,350	1,283	1,167	1,279	1,209	1,208	1,205
Usually work part-time	2,043	1,946	2,079	2,036	2,024	1,969	1,948	1,920	1,997	1,852	1,849	1,951	1,942
Part-time for noneconomic reasons	11,682	11,755	12,006	12,064	11,855	11,857	11,847	12,041	12,025	12,128	12,201	12,122	12,195

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. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	Feb. 1978	Feb. 1979	
VETERANS¹										
Total, 20 years and over	8,263	8,476	7,789	8,049	7,312	7,586	477	463	6.1	5.8
20 to 24 years	829	624	733	579	610	490	123	89	16.8	15.4
25 to 39 years	6,754	7,054	6,489	6,786	6,164	6,446	325	340	5.0	5.0
25 to 29 years	2,540	2,090	2,401	1,982	2,241	1,811	160	171	6.7	8.6
30 to 34 years	3,226	3,558	3,125	3,437	2,990	3,307	135	130	4.3	3.8
35 to 39 years	988	1,406	963	1,367	933	1,326	30	39	3.1	2.9
40 years and over	680	798	567	684	538	650	29	34	5.1	5.0
NONVETERANS²										
Total, 25 to 39 years	13,383	14,242	12,689	13,544	12,037	12,941	652	603	5.1	4.5
25 to 29 years	5,860	6,470	5,514	6,126	5,162	5,786	352	342	6.4	5.6
30 to 34 years	3,994	4,085	3,806	3,888	3,622	3,732	184	156	4.8	4.0
35 to 39 years	3,529	3,687	3,369	3,528	3,253	3,423	116	105	3.4	3.0

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

² Nonveterans are males who have never served in the Armed Forces. Published data are limited to those 25-39 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

NOTE: Seasonally-adjusted data are no longer being provided because the changing age composition of the Vietnam-era veterans' population distorts the ability to identify seasonality in the series.

ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

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

Year and month	Total	Goods-producing						Service-producing							
		Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
								Total	Wholesale trade	Retail trade			Total	Federal	State and local
1919	27,078	12,828	1,133	1,036	10,659	14,250	3,711	4,514	-	-	1,096	2,253	2,676	-	-
1920	27,340	12,760	1,239	863	10,658	14,580	3,998	4,467	-	-	1,160	2,352	2,603	-	-
1925	28,766	12,489	1,089	1,461	9,939	16,277	3,826	5,576	-	-	1,218	2,857	2,800	-	-
1926	29,806	12,911	1,185	1,570	10,156	16,895	3,942	5,784	-	-	1,290	3,033	2,846	-	-
1927	29,962	12,738	1,114	1,623	10,001	17,224	3,895	5,908	-	-	1,352	3,154	2,915	-	-
1928	29,986	12,618	1,050	1,621	9,947	17,368	3,828	5,874	-	-	1,420	3,251	2,995	-	-
1929	31,324	13,301	1,087	1,512	10,702	18,023	3,916	6,123	-	-	1,494	3,425	3,065	533	2,532
1930	29,409	11,958	1,009	1,387	9,562	17,451	3,685	5,797	-	-	1,460	3,361	3,148	526	2,622
1931	26,635	10,272	873	1,229	8,170	16,363	3,254	5,284	-	-	1,392	3,169	3,264	560	2,704
1932	23,615	8,647	731	985	6,931	14,968	2,816	4,683	-	-	1,326	2,918	3,225	559	2,666
1933	23,699	8,965	744	824	7,397	14,734	2,672	4,755	-	-	1,280	2,861	3,166	565	2,601
1934	25,940	10,261	883	877	8,501	15,679	2,750	5,281	-	-	1,304	3,045	3,299	652	2,647
1935	27,039	10,893	897	927	9,069	16,146	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728
1936	29,068	11,933	946	1,160	9,827	17,135	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842
1937	31,011	12,436	1,015	1,127	10,794	18,075	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923
1938	29,194	11,901	891	1,070	9,440	17,793	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054
1939	30,603	12,297	854	1,165	10,278	18,306	2,936	6,426	1,762	4,664	1,447	3,502	3,995	905	3,090
1940	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206
1941	36,539	15,963	957	1,814	13,992	20,574	3,274	7,210	1,960	5,250	1,525	3,905	4,660	1,340	3,320
1942	40,106	18,470	992	2,198	15,280	21,636	3,460	7,118	1,906	5,212	1,509	4,066	5,483	2,213	3,270
1943	42,434	20,114	925	1,587	17,602	22,320	3,647	6,982	1,822	5,160	1,481	4,130	6,080	2,905	3,174
1944	41,864	19,328	892	1,108	17,328	22,536	3,829	7,058	1,845	5,213	1,461	4,145	6,043	2,928	3,116
1945	40,374	17,507	836	1,147	15,524	22,867	3,906	7,314	1,949	5,365	1,481	4,222	5,944	2,808	3,137
1946	41,652	17,248	862	1,683	14,703	24,404	4,061	8,376	2,291	6,085	1,675	4,697	5,595	2,254	3,341
1947	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,484	1,728	5,025	5,474	1,892	3,582
1948	44,866	18,774	994	2,198	15,582	26,092	4,189	9,272	2,605	6,667	1,800	5,181	5,650	1,863	3,787
1949	43,754	17,565	930	2,194	14,441	26,189	4,001	9,264	2,602	6,662	1,828	5,240	5,856	1,908	3,948
1950	45,197	18,506	901	2,364	15,241	26,691	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098
1951	47,819	19,959	929	2,637	16,393	27,860	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,087
1952	48,793	20,198	898	2,668	16,632	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188
1953	50,202	21,074	866	2,659	17,549	29,128	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340
1954	48,990	19,751	791	2,646	16,314	29,239	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563
1955	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,609	2,298	6,240	6,914	2,187	4,727
1956	52,369	21,104	822	3,039	17,243	31,265	4,244	10,858	3,018	7,840	2,389	6,497	7,277	2,209	5,069
1957	52,853	20,964	828	2,962	17,174	31,889	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399
1958	51,324	19,513	751	2,817	15,945	31,811	3,976	10,750	2,980	7,770	2,481	6,765	7,839	2,191	5,648
1959 ¹	53,268	20,411	732	3,004	16,675	32,857	4,011	11,127	3,082	8,045	2,549	7,087	8,033	2,233	5,850
1960	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,553	2,270	6,083
1961	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315
1962	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,768
1964	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968	67,897	23,732	606	3,350	19,781	44,160	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102
1969	70,384	24,361	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,758	9,437
1970	70,880	23,578	623	3,588	19,367	47,302	4,515	15,040	3,993	11,047	3,645	11,548	12,554	2,731	9,823
1971	71,214	22,935	609	3,704	18,623	48,278	4,476	15,352	4,001	11,351	3,772	11,797	12,881	2,696	10,185
1972	73,675	23,668	628	3,889	19,151	50,007	4,541	15,949	4,113	11,836	3,908	12,276	13,334	2,684	10,649
1973	76,790	24,893	642	4,097	20,154	51,897	4,656	16,607	4,277	12,329	4,046	12,857	13,732	2,663	11,068
1974	78,265	24,794	697	4,020	20,077	53,471	4,725	16,987	4,433	12,554	4,148	13,441	14,170	2,724	11,446
1975	76,945	22,600	752	3,525	18,323	54,345	4,542	17,060	4,415	12,645	4,165	13,892	14,686	2,748	11,937
1976	79,382	23,352	779	3,576	18,997	56,030	4,582	17,755	4,546	13,209	4,271	14,551	14,871	2,733	12,138
1977	82,256	24,288	809	3,833	19,647	57,968	4,696	18,492	4,697	13,795	4,452	15,249	15,079	2,727	12,352
1978	85,763	25,381	837	4,212	20,332	60,382	4,859	19,394	4,898	14,496	4,676	15,979	15,476	2,753	12,723
Feb.	82,962	23,996	668	3,464	19,864	58,966	4,720	18,615	4,780	13,835	4,550	15,482	15,599	2,720	12,879
Mar.	83,897	24,356	686	3,675	19,995	59,541	4,759	18,801	4,815	13,986	4,577	15,678	15,726	2,725	13,001
Apr.	85,075	24,973	858	4,014	20,101	60,102	4,808	19,053	4,843	14,210	4,609	15,866	15,766	2,739	13,027
May	85,796	25,262	870	4,183	20,209	60,534	4,842	19,267	4,870	14,397	4,642	15,975	15,808	2,756	13,052
June	86,799	25,839	895	4,462	20,482	60,960	4,920	19,499	4,934	14,565	4,712	16,138	15,691	2,802	12,889
July	85,925	25,712	900	4,572	20,240	60,213	4,856	19,469	4,930	14,539	4,746	16,213	14,929	2,815	12,114
Aug.	86,134	25,997	902	4,633	20,462	60,137	4,870	19,519	4,930	14,589	4,754	16,235	14,759	2,793	11,966
Sept.	86,688	26,131	894	4,586	20,651	60,557	4,908	19,634	4,932	14,702	4,724	16,159	15,132	2,744	12,388
Oct.	87,303	26,161	897	4,601	20,663	61,142	4,952	19,701	4,970	14,731	4,732	16,201	15,556	2,746	12,810
Nov.	87,800	26,157	904	4,517	20,736	61,643	4,972	19,971	4,988	14,983	4,760	16,237	15,703	2,746	12,957
Dec.	88,054	25,967	898	4,331	20,738	62,087	4,992	20,388	5,010	15,378	4,775	16,245	15,687	2,733	12,954
1979:															
Jan. P.	86,236	25,416	895	3,932	20,589	60,280	4,907	19,599	4,972	14,627	4,773	16,021	15,520	2,718	12,802
Feb. P.	86,441	25,359	894	3,861	20,604	61,082	4,933	19,445	4,971	14,474	4,785	16,181	15,738	2,726	13,012

¹ Data include Alaska and Hawaii beginning 1950. This inclusion has resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark month.

p = preliminary.

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
-	TOTAL	85,763	82,724	88,054	86,236	86,441	-	-	-	-	-
-	PRIVATE SECTOR	70,287	67,372	72,367	70,716	70,703	57,543	55,028	59,323	57,673	57,647
-	MINING	837	669	898	895	894	628	484	679	675	676
10	METAL MINING	96.7	94.4	97.5	98.2	-	74.7	72.5	75.2	75.7	-
101	Iron ores	24.6	22.1	25.1	24.8	-	19.9	17.6	20.3	19.9	-
102	Copper ores	35.2	36.5	34.7	35.2	-	26.9	28.0	26.7	27.1	-
11, 12	COAL MINING	201.7	72.0	246.9	246.1	-	165.8	52.3	206.8	206.7	-
12	BITUMINOUS COAL AND LIGNITE MINING	198.5	68.7	243.8	243.0	-	163.1	49.4	204.0	203.5	-
13	OIL AND GAS EXTRACTION	417.1	394.4	431.9	435.3	-	290.6	274.7	300.3	302.9	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	178.1	171.8	181.6	182.7	-	88.2	86.7	88.2	89.7	-
138	Oil and gas field services	239.0	222.6	250.3	252.6	-	202.4	188.0	212.1	213.2	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	121.3	108.1	121.8	115.2	-	96.5	84.3	96.9	90.4	-
142	Crushed and broken stone	42.0	36.0	42.1	38.9	-	35.2	29.4	35.1	31.9	-
144	Sand and gravel	36.3	30.4	36.0	32.8	-	-	-	-	-	-
147	Chemical and fertilizer minerals	23.5	23.6	23.8	23.7	-	-	-	-	-	-
-	CONSTRUCTION	4,212	3,507	4,331	3,932	3,861	3,336	2,658	3,450	3,046	2,969
15	GENERAL BUILDING CONTRACTORS	1,198.0	1,025.8	1,227.2	1,124.5	-	928.8	764.9	956.0	847.5	-
152	Residential building construction	638.1	544.2	658.0	602.9	-	485.8	396.2	506.6	446.6	-
153	Operative builders	81.3	73.6	82.5	77.9	-	53.9	48.0	53.9	49.3	-
154	Nonresidential building construction	478.6	408.0	486.7	443.7	-	389.1	320.7	395.5	351.6	-
16	HEAVY CONSTRUCTION CONTRACTORS	876.1	658.8	863.2	732.7	-	705.8	487.3	699.6	573.5	-
161	Highway and street construction	278.9	163.2	256.6	190.6	-	238.3	127.0	215.2	149.4	-
162	Heavy construction, except highway	597.3	495.6	606.6	542.1	-	467.5	360.3	484.4	424.1	-
17	SPECIAL TRADE CONTRACTORS	2,137.8	1,822.6	2,240.4	2,074.8	-	1,701.8	1,405.5	1,794.6	1,625.3	-
171	Plumbing, heating, air conditioning	518.7	481.6	539.2	516.4	-	395.4	362.0	414.8	392.4	-
172	Painting, paper hanging, decorating	140.3	110.9	144.4	126.4	-	117.6	89.9	121.0	102.6	-
173	Electrical work	365.3	338.8	387.3	379.0	-	284.3	259.5	304.9	296.0	-
174	Masonry, stonework, and plastering	345.8	277.2	372.6	337.1	-	298.6	231.6	324.5	286.8	-
175	Carpentering and flooring	128.7	112.9	136.6	129.8	-	100.3	85.4	106.5	100.6	-
176	Roofing and sheet metal work	154.5	117.2	160.7	138.2	-	126.1	91.1	131.2	108.3	-
-	MANUFACTURING	20,332	19,842	20,738	20,589	20,604	14,610	14,237	14,927	14,794	14,821
24, 25, 32-39	DURABLE GOODS	12,160	11,821	12,519	12,456	12,472	8,727	8,482	9,012	8,951	8,978
20-23, 26-31	NONDURABLE GOODS	8,172	8,021	8,219	8,133	8,132	5,883	5,755	5,915	5,843	5,843
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	750.7	721.9	751.9	737.2	740.0	643.7	619.2	642.0	627.6	629.8
241	Logging camps and logging contractors	88.3	81.3	89.4	87.1	-	72.1	65.7	73.3	70.7	-
242	Sawmills and planing mills	237.8	229.4	238.1	234.8	-	212.7	204.7	212.5	208.9	-
2421	Sawmills and planing mills, general	197.6	189.4	197.8	194.5	-	177.3	169.3	176.9	173.6	-
2426	Hardwood dimension and flooring	33.5	33.3	33.6	33.7	-	29.6	29.5	29.6	29.4	-
243	Millwork, plywood, and structural members	214.5	209.2	215.5	213.4	-	181.7	177.6	181.6	179.5	-
2431	Millwork	77.6	76.0	77.8	76.8	-	64.1	62.9	63.9	63.5	-
2434	Wood kitchen cabinets	47.9	47.2	48.2	47.9	-	40.0	39.7	40.0	39.8	-
2435	Hardwood veneer and plywood	26.2	25.8	26.5	26.3	-	23.5	22.9	23.7	23.6	-
2436	Softwood veneer and plywood	47.6	46.6	47.5	47.4	-	41.9	41.2	41.7	40.8	-
244	Wooden containers	42.8	41.3	42.6	42.0	-	37.8	36.2	37.5	37.1	-
245	Wood buildings and mobile homes	83.2	79.7	79.6	73.6	-	68.6	67.2	63.9	58.5	-
2451	Mobile homes	57.0	55.2	54.8	51.4	-	49.1	49.0	46.1	43.0	-
249	Miscellaneous wood products	84.2	81.0	86.7	86.3	-	70.8	67.8	73.2	72.9	-
25	FURNITURE AND FIXTURES	486.5	482.3	493.7	491.9	491.4	400.1	397.3	405.7	404.2	403.7
251	Household furniture	329.1	327.8	332.1	330.8	-	280.0	279.4	282.6	281.6	-
2511	Wood household furniture	146.5	146.9	147.1	147.1	-	129.6	130.0	130.5	130.2	-
2512	Upholstered household furniture	103.1	102.0	105.0	104.4	-	85.6	85.3	86.7	86.5	-
2514	Metal household furniture	30.5	31.0	31.3	31.5	-	24.6	24.8	25.4	25.5	-
2515	Mattresses and bedsprings	32.5	31.8	32.0	31.9	-	25.4	24.8	24.8	25.0	-
252	Office furniture	44.6	43.5	46.1	46.2	-	36.2	35.3	37.1	37.3	-
253	Public building and related furniture	24.4	23.8	25.0	25.0	-	18.5	18.1	19.0	19.1	-
254	Partitions and fixtures	62.1	60.5	64.1	63.4	-	47.2	46.2	48.7	47.8	-
259	Miscellaneous furniture and fixtures	26.4	26.7	26.4	26.5	-	18.3	18.3	18.3	18.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]		All employees					Production workers ¹				
1972 SIC Code	Industry	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^p	Feb. 1979 ^p	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^p	Feb. 1979 ^p
32	STONE, CLAY, AND GLASS PRODUCTS	696.2	662.0	699.8	677.2	682.2	553.9	526.5	554.6	533.5	538.1
321	Flat glass	20.7	21.4	18.5	18.5	-	16.3	17.1	14.3	14.3	-
322	Glass and glassware, pressed or blown	138.2	136.8	137.6	136.8	-	119.0	118.2	118.2	117.3	-
3221	Glass containers	78.2	77.8	76.4	75.9	-	69.3	69.4	67.1	66.6	-
3229	Pressed and blown glass, nec.	60.0	59.0	61.2	60.9	-	49.7	48.8	51.1	50.7	-
323	Products of purchased glass	46.9	44.3	48.7	47.6	-	34.4	32.9	35.6	35.0	-
324	Cement, hydraulic	31.8	31.0	32.0	32.0	-	25.3	24.5	25.7	25.8	-
325	Structural clay products	51.9	50.7	52.4	51.1	-	41.0	40.4	41.3	40.2	-
326	Pottery and related products	47.6	46.4	48.2	46.6	-	40.0	39.0	40.4	39.1	-
327	Concrete, gypsum, and plaster products	205.9	183.2	205.1	188.9	-	161.1	140.6	160.1	145.0	-
3271	Concrete block and brick	23.8	21.3	24.3	22.4	-	16.7	14.5	17.0	15.6	-
3272	Concrete products, nec.	70.9	65.2	70.7	66.1	-	55.6	50.8	55.2	50.8	-
3273	Ready-mixed concrete	90.1	76.3	89.1	79.7	-	71.7	58.8	70.7	61.7	-
329	Misc. nonmetallic mineral products	140.9	136.7	144.8	144.1	-	106.8	104.7	108.8	107.5	-
3291	Abrasive products	28.3	27.5	29.5	29.7	-	19.5	19.2	20.2	20.3	-
3292	Asbestos products	22.2	21.1	23.0	23.0	-	17.2	16.4	18.0	17.8	-
3296	Mineral wool	31.2	30.6	31.2	30.6	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,205.6	1,181.5	1,235.5	1,234.0	1,233.5	947.6	925.0	976.6	975.8	977.5
331	Blast furnace and basic steel products	554.4	544.8	560.2	559.2	-	437.0	426.4	443.7	443.2	-
3312	Blast furnaces and steel mills	470.8	463.0	475.1	473.6	-	372.9	364.3	377.6	376.6	-
3317	Steel pipe and tubes	29.6	28.7	30.6	30.7	-	23.0	22.2	24.1	24.2	-
332	Iron and steel foundries	238.4	234.3	247.8	247.9	-	195.1	192.3	203.9	203.5	-
3321	Gray iron foundries	151.0	149.3	156.0	155.1	-	125.7	124.7	130.6	129.7	-
3322	Malleable iron foundries	22.5	20.5	23.0	23.4	-	18.2	16.3	18.7	19.0	-
3325	Steel foundries, nec.	54.8	54.3	57.1	57.6	-	44.0	43.6	46.1	46.2	-
333	Primary nonferrous metals	67.6	66.7	68.5	67.2	-	52.8	52.0	53.5	52.5	-
3334	Primary aluminum	34.0	32.5	34.7	33.7	-	27.7	26.5	28.2	27.4	-
335	Nonferrous rolling and drawing	205.3	198.7	212.4	212.0	-	149.9	144.3	156.7	157.1	-
3351	Copper rolling and drawing	32.1	28.2	33.1	33.2	-	24.9	21.5	26.3	26.4	-
3353	Aluminum sheet, plate, and foil	36.0	33.8	37.7	37.6	-	26.7	24.9	28.6	28.7	-
3357	Nonferrous wire drawing and insulating	82.0	82.7	85.2	85.3	-	60.7	61.4	63.5	63.7	-
336	Nonferrous foundries	94.4	93.5	99.5	100.2	-	78.2	77.5	82.8	83.1	-
3361	Aluminum foundries	52.2	52.0	55.2	55.6	-	44.0	43.8	46.6	46.9	-
34	FABRICATED METAL PRODUCTS	1,652.6	1,611.8	1,700.3	1,691.5	1,686.9	1,255.0	1,224.2	1,293.2	1,283.0	1,283.0
341	Metal cans and shipping containers	78.1	75.1	76.1	76.6	-	65.8	63.0	63.8	64.0	-
3411	Metal cans	64.5	62.2	62.3	62.6	-	54.7	52.6	52.5	52.5	-
342	Cutlery, hand tools, and hardware	187.3	183.3	191.5	190.0	-	146.2	143.4	149.5	148.3	-
3423,5	Hand and edge tools, and hand saws and blades	63.5	60.4	65.2	65.5	-	50.0	47.2	51.4	51.9	-
3429	Hardware, nec.	107.7	107.0	109.9	108.4	-	84.3	84.1	86.1	84.6	-
343	Plumbing and heating, except electric	70.9	70.8	72.4	71.0	-	52.7	53.0	54.1	52.4	-
3432	Plumbing fittings and brass goods	26.4	25.9	26.6	26.1	-	21.5	21.3	21.7	21.2	-
3433	Heating equipment, except electric	33.8	34.0	34.5	33.5	-	23.6	24.2	24.0	22.9	-
344	Fabricated structural metal products	500.1	484.1	514.9	509.2	-	354.9	343.0	365.8	360.6	-
3441	Fabricated structural metal	101.0	98.6	105.1	105.0	-	72.5	70.8	76.2	76.1	-
3442	Metal doors, sash, and trim	84.3	82.4	85.6	82.8	-	63.9	62.9	64.3	61.9	-
3443	Fabricated plate work (boiler shops)	146.3	143.0	150.2	149.8	-	95.8	93.8	98.5	98.3	-
3444	Sheet metal work	101.0	97.2	104.2	103.1	-	75.1	71.8	77.5	76.3	-
3446	Architectural metal work	32.9	32.2	34.1	33.5	-	23.7	23.0	24.6	24.3	-
345	Screw machine products, bolts, etc.	107.5	103.6	113.1	114.2	-	84.5	81.2	89.0	89.9	-
3451	Screw machine products	51.6	49.4	54.3	55.0	-	42.7	40.7	45.0	45.7	-
3452	Bolts, nuts, rivets, and washers	55.9	54.2	58.8	59.2	-	41.8	40.5	44.0	44.2	-
346	Metal forgings and stampings	297.8	295.2	308.3	305.2	-	241.1	239.6	250.5	246.8	-
3462	Iron and steel forgings	52.3	51.3	56.4	56.1	-	41.9	41.2	45.2	44.9	-
3465	Automotive stampings	114.0	113.3	119.2	115.8	-	96.0	95.9	100.8	97.3	-
3469	Metal stampings, nec.	120.4	119.8	121.1	121.8	-	94.6	94.3	95.5	95.7	-
347	Metal services, nec.	96.9	94.0	99.3	98.2	-	79.9	77.5	81.9	80.8	-
3471	Plating and polishing	69.0	66.7	70.9	70.2	-	57.6	55.6	59.2	58.5	-
3479	Metal coating and allied services	27.9	27.3	28.4	28.0	-	22.3	21.9	22.7	22.3	-
348	Ordnance and accessories, nec.	58.8	57.5	59.6	59.7	-	41.0	40.2	41.4	41.5	-
3483	Ammunition, exc. for small arms, nec.	24.6	24.4	24.7	24.7	-	17.3	17.4	17.3	17.3	-
349	Misc. fabricated metal products	255.2	248.2	265.1	267.4	-	189.0	183.3	197.2	198.7	-
3494	Valves and pipe fittings	100.0	98.8	103.1	103.9	-	68.3	67.3	70.7	71.5	-
3496	Misc. fabricated wire products	51.4	49.2	54.0	54.3	-	39.6	37.9	41.8	42.1	-
35	MACHINERY, EXCEPT ELECTRICAL	2,337.3	2,265.8	2,439.7	2,452.7	2,468.5	1,537.7	1,492.3	1,618.9	1,627.5	1,645.8
351	Engines and turbines	133.2	131.1	137.8	137.4	-	86.2	84.6	90.2	88.8	-
3511	Turbines and turbine generator sets	44.8	44.5	45.1	44.7	-	23.6	23.4	23.8	23.0	-
3519	Internal combustion engines, nec.	88.5	86.6	92.7	92.7	-	62.6	61.2	66.4	65.8	-
352	Farm and garden machinery	162.5	162.1	174.3	173.2	-	112.6	111.1	125.9	124.7	-
3523	Farm machinery and equipment	145.6	144.3	156.8	155.1	-	100.8	98.6	113.3	111.6	-
353	Construction and related machinery	385.8	368.7	405.5	408.0	-	258.1	246.6	272.4	274.4	-
3531	Construction machinery	171.7	165.1	178.9	180.1	-	117.9	113.7	123.6	124.2	-

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979P	Feb. 1979P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979P	Feb. 1979P	
	MACHINERY, EXCEPT ELECTRICAL—Continued											
3532	Mining machinery	34.3	32.5	36.4	36.6	--	21.8	20.5	23.2	23.5	--	
3533	Oil field machinery	75.8	71.6	80.1	80.9	--	52.6	49.1	55.8	57.1	--	
3535	Conveyers and conveying equipment	31.8	30.5	34.2	34.6	--	18.9	18.4	20.3	20.4	--	
3537	Industrial trucks and tractors	38.8	36.9	41.2	40.8	--	27.0	25.7	28.8	28.2	--	
354	Metalworking machinery	343.4	335.5	354.3	356.8	--	250.7	245.5	258.7	260.8	--	
3541	Machine tools, metal cutting types	69.6	67.4	72.3	73.3	--	45.1	44.1	46.5	47.5	--	
3542	Machine tools, metal forming types	24.0	23.3	24.9	25.0	--	15.8	15.4	16.4	16.5	--	
3544	Special dies, tools, jigs, and fixtures	129.1	128.7	132.0	133.3	--	103.5	103.6	106.2	107.1	--	
3545	Machine tool accessories	63.8	61.6	66.5	66.7	--	45.4	43.7	47.2	47.3	--	
3546	Power driven hand tools	33.5	33.6	33.9	33.8	--	25.0	25.2	25.5	25.5	--	
355	Special industry machinery	199.2	195.2	205.6	206.5	--	125.3	123.0	130.3	131.0	--	
3551	Food products machinery	45.6	44.8	46.7	47.1	--	28.4	28.1	29.1	29.5	--	
3552	Textile machinery	30.8	30.9	31.2	31.0	--	21.8	21.9	22.1	21.9	--	
3555	Printing trades machinery	36.1	33.8	38.8	39.2	--	21.3	19.8	23.5	23.8	--	
356	General industrial machinery	310.7	302.1	323.2	323.3	--	208.1	203.1	217.0	217.0	--	
3561	Pumps and pumping equipment	61.5	61.4	62.4	62.6	--	38.2	38.6	38.6	38.4	--	
3562	Ball and roller bearings	58.4	57.4	61.5	61.6	--	45.0	44.1	47.9	48.0	--	
3563	Air and gas compressors	29.3	28.0	30.3	29.9	--	17.2	16.9	17.7	18.0	--	
3564	Blowers and fans	37.2	36.5	38.8	39.1	--	23.8	23.4	24.6	24.7	--	
3566	Speed changers, drives, and gears	25.7	25.0	26.7	26.8	--	17.7	17.3	18.4	18.5	--	
3568	Power transmission equipment, nec	22.5	22.4	23.0	23.1	--	16.3	16.2	16.9	17.0	--	
357	Office and computing machines	351.8	333.7	369.3	371.1	--	161.4	153.0	172.3	173.5	--	
3573	Electronic computing equipment	274.9	259.2	289.0	291.7	--	115.0	107.6	124.3	126.0	--	
358	Refrigeration and service machinery	185.4	180.9	190.4	194.0	--	130.9	128.1	135.5	138.2	--	
3585	Refrigeration and heating equipment	129.4	126.9	131.9	135.8	--	91.9	90.9	94.5	97.8	--	
359	Misc. machinery, except electrical	265.4	256.5	279.3	282.4	--	204.4	197.3	216.6	219.1	--	
3592	Carburetors, pistons, rings, valves	38.8	38.0	42.3	42.6	--	30.6	30.2	33.6	34.0	--	
3599	Machinery, except electrical, nec	226.6	218.5	237.0	239.8	--	173.8	167.1	183.0	185.1	--	
36	ELECTRIC AND ELECTRONIC EQUIPMENT	1,966.5	1,918.7	2,025.1	2,021.0	2,028.7	1,290.7	1,263.0	1,334.3	1,329.0	1,339.7	
361	Electric distributing equipment	121.4	121.2	122.1	121.5	--	87.0	86.7	88.2	87.9	--	
3612	Transformers	56.8	56.3	57.7	57.4	--	40.3	39.9	41.4	41.2	--	
3613	Switchgear and switchboard apparatus	64.6	64.9	64.4	64.1	--	46.7	46.8	46.8	46.7	--	
362	Electrical industrial apparatus	242.3	237.9	248.6	248.7	--	174.0	171.0	179.2	179.3	--	
3621	Motors and generators	130.8	130.2	132.1	132.4	--	98.4	98.2	100.1	100.3	--	
3622	Industrial controls	66.9	64.2	70.2	69.8	--	43.5	41.6	45.9	45.5	--	
363	Household appliances	183.5	181.4	174.3	171.6	--	144.4	142.2	135.3	133.5	--	
3632	Household refrigerators and freezers	46.6	46.6	39.8	39.9	--	36.9	36.8	30.8	31.1	--	
3633	Household laundry equipment	22.6	22.2	20.7	21.0	--	17.6	17.3	15.9	16.2	--	
3634	Electric housewares and fans	50.9	49.3	50.7	47.6	--	40.5	38.6	39.7	37.2	--	
364	Electric lighting and wiring equipment	214.9	211.3	222.8	222.7	--	162.9	160.5	169.9	170.5	--	
3641	Electric lamps	38.3	38.6	39.3	40.0	--	33.6	33.8	34.6	35.9	--	
3643	Current-carrying wiring devices	88.8	85.1	93.6	93.3	--	62.7	59.8	66.5	66.4	--	
3644	Noncurrent-carrying wiring devices	23.0	24.5	23.6	23.7	--	16.7	18.2	17.3	17.4	--	
3645	Residential lighting fixtures	24.7	23.7	25.7	25.2	--	19.1	18.4	19.9	19.4	--	
365	Radio and TV receiving equipment	122.7	126.1	123.0	118.5	--	91.0	94.2	92.3	87.2	--	
3651	Radio and TV receiving sets	97.2	97.4	98.4	97.2	--	70.9	70.9	72.8	71.0	--	
366	Communication equipment	490.7	476.5	509.5	510.8	--	239.4	232.4	252.4	253.0	--	
3661	Telephone and telegraph apparatus	151.8	151.9	153.7	153.1	--	104.4	104.0	106.3	106.3	--	
3662	Radio and TV communication equipment	338.8	324.6	355.8	357.7	--	135.0	128.4	146.1	146.7	--	
367	Electronic components and accessories	434.2	409.1	462.1	465.5	--	272.5	256.7	293.2	294.7	--	
3671-3	Electronic tubes	42.6	41.1	43.5	43.8	--	28.0	26.8	28.3	28.8	--	
3674	Semiconductors and related devices	162.0	149.5	177.1	178.2	--	76.0	70.1	85.7	85.6	--	
3679	Electronic components, nec	168.9	160.3	178.5	180.2	--	119.5	112.9	128.0	128.9	--	
369	Misc. electrical equipment and supplies	156.9	155.2	162.7	161.7	--	119.5	119.3	123.8	122.9	--	
3691	Storage batteries	28.4	28.3	30.1	30.0	--	22.6	22.9	24.0	24.1	--	
3694	Engine electrical equipment	78.3	77.3	81.6	81.0	--	62.1	61.7	64.9	64.3	--	
37	TRANSPORTATION EQUIPMENT	1,956.1	1,916.8	2,043.3	2,029.4	2,015.1	1,350.7	1,324.4	1,426.6	1,416.5	1,400.4	
371	Motor vehicles and equipment	977.1	978.2	1,018.8	1,002.5	--	760.5	763.4	802.8	787.9	--	
3711	Motor vehicles and car bodies	451.5	459.8	465.8	453.7	--	335.5	345.5	351.8	340.9	--	
3713	Truck and bus bodies	51.4	49.4	54.2	54.3	--	41.3	39.3	43.9	44.1	--	
3714	Motor vehicle parts and accessories	443.6	440.7	466.3	461.9	--	359.5	356.5	381.3	377.0	--	
3715	Truck trailers	30.6	28.3	32.5	32.6	--	24.2	22.1	25.8	25.9	--	
372	Aircraft and parts	529.3	500.1	571.7	577.4	--	274.8	255.1	306.2	312.7	--	
3721	Aircraft	304.4	285.4	331.3	334.1	--	141.4	128.1	161.8	166.4	--	
3724	Aircraft engines and engine parts	130.9	125.1	139.3	140.6	--	73.7	71.0	79.1	79.9	--	
3728	Aircraft equipment, nec	94.0	89.6	101.1	102.7	--	59.7	56.0	65.3	66.4	--	
373	Ship and boat building and repairing	218.3	221.4	217.0	212.8	--	175.2	177.6	174.4	170.5	--	
3731	Ship building and repairing	170.2	175.3	168.6	164.3	--	135.6	139.8	134.2	130.6	--	
3732	Boat building and repairing	48.1	46.1	48.4	48.5	--	39.5	37.8	40.2	39.9	--	
374	Railroad equipment	56.7	50.3	62.1	62.4	--	42.5	36.5	47.7	48.4	--	
376	Guided missiles, space vehicles, parts	82.6	81.9	83.8	83.8	--	26.1	26.5	26.2	27.1	--	
3761	Guided missiles and space vehicles	62.9	63.1	63.3	63.3	--	17.7	18.3	17.6	18.5	--	

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]		All employees					Production workers ¹				
1972 SIC Code	Industry	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	74.7	67.4	74.3	73.5	—	57.7	51.0	57.3	56.6	—
3792	Travel trailers and campers	49.8	45.1	48.2	49.5	—	40.1	35.6	38.8	40.1	—
38	INSTRUMENTS AND RELATED PRODUCTS	654.1	630.7	677.8	680.3	685.4	400.8	385.2	417.6	420.0	426.8
381	Engineering and scientific instruments	68.3	66.3	71.1	72.0	—	33.5	32.1	36.2	36.4	—
382	Measuring and controlling devices	215.8	207.9	223.3	225.2	—	137.4	132.2	143.3	145.5	—
3822	Environmental controls	49.6	49.9	48.7	49.4	—	34.5	35.1	33.6	34.6	—
3823	Process control instruments	48.0	47.1	50.2	50.3	—	25.3	24.8	27.2	27.3	—
3825	Instruments to measure electricity	82.3	75.2	86.8	87.6	—	52.3	46.9	55.8	56.6	—
383	Optical instruments and lenses	27.8	26.7	29.4	29.4	—	15.8	15.3	16.7	16.7	—
384	Medical instruments and supplies	140.7	133.4	149.2	149.4	—	94.0	89.1	99.9	100.6	—
3841	Surgical and medical instruments	56.8	52.6	61.7	62.1	—	37.9	35.2	41.0	41.4	—
3842	Surgical appliances and supplies	65.8	63.2	68.6	68.9	—	44.2	42.2	46.5	46.7	—
385	Ophthalmic goods	41.3	40.7	41.5	41.4	—	30.4	30.4	30.7	30.4	—
386	Photographic equipment and supplies	131.1	127.4	134.1	134.6	—	67.2	64.3	68.4	68.9	—
387	Watches, clocks, and watchcases	29.1	28.3	29.2	28.3	—	22.5	21.8	22.4	21.5	—
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	454.0	429.6	541.8	441.1	440.1	346.7	324.8	342.3	333.9	333.4
391	Jewelry, silverware, and plated ware	61.8	60.5	61.8	60.3	—	45.5	44.4	44.7	44.4	—
3911	Jewelry, precious metal	39.5	38.6	39.0	38.3	—	28.5	27.5	27.3	27.7	—
393	Musical instruments	25.2	24.0	25.7	25.9	—	20.6	19.6	21.1	21.4	—
394	Toys and sporting goods	116.6	105.9	107.8	103.2	—	89.7	79.0	81.3	77.4	—
3942, 4	Dolls, games, toys, and children's vehicles	54.7	43.6	49.3	46.4	—	40.8	29.9	35.1	32.7	—
3949	Sporting and athletic goods, nec	61.9	62.3	58.5	56.8	—	48.9	49.1	46.2	44.7	—
395	Pens, pencils, office and art supplies	34.8	34.4	35.4	35.5	—	25.0	24.5	25.6	25.5	—
396	Costume jewelry and notions	68.4	63.5	72.3	68.4	—	55.2	50.9	58.8	55.0	—
3961	Costume jewelry	38.0	34.1	41.1	37.8	—	31.0	27.6	33.9	30.6	—
399	Miscellaneous manufactures	147.3	141.3	148.8	147.8	—	110.7	106.4	110.8	110.2	—
3993	Signs and advertising displays	52.7	51.1	53.5	53.8	—	38.0	36.7	38.4	38.9	—
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,694.5	1,644.7	1,690.5	1,652.5	1,635.4	1,147.3	1,099.7	1,147.3	1,113.8	1,091.2
201	Meat products	357.3	350.4	365.5	361.0	—	295.3	288.6	303.4	298.6	—
2011	Meat packing plants	170.9	170.5	172.7	171.9	—	137.9	137.5	140.0	139.4	—
2013	Sausages and other prepared meats	68.7	69.0	69.1	68.1	—	50.4	50.4	50.8	50.1	—
2016	Poultry dressing plants	103.3	96.6	108.7	105.7	—	94.2	87.9	99.3	95.8	—
202	Dairy products	190.7	186.9	188.6	187.5	—	100.2	97.1	98.8	97.7	—
2022	Cheese, natural and processed	31.7	30.8	31.8	30.8	—	24.7	23.7	24.8	23.9	—
2026	Fluid milk	122.3	121.8	121.6	121.3	—	53.1	52.7	52.3	52.0	—
203	Preserved fruits and vegetables	223.5	193.6	202.4	186.0	—	180.7	150.8	161.4	146.2	—
2032	Canned specialties	28.4	28.7	29.3	28.2	—	19.8	19.7	20.3	19.3	—
2033	Canned fruits and vegetables	85.7	63.3	65.3	58.0	—	70.0	48.2	51.5	45.2	—
2037	Frozen fruits and vegetables	38.8	35.1	38.2	33.6	—	33.5	29.6	33.1	28.3	—
204	Grain mill products	144.6	142.4	146.3	145.1	—	97.8	96.0	99.8	99.2	—
2041	Flour and other grain mill products	24.7	24.6	25.1	24.8	—	15.7	15.9	16.0	15.8	—
2048	Prepared feeds, nec	61.9	60.9	62.5	62.3	—	39.0	37.8	39.8	40.0	—
205	Bakery products	228.4	230.5	228.5	227.5	—	133.0	133.6	132.7	132.3	—
2051	Bread, cake, and related products	188.6	191.4	188.4	187.1	—	101.3	102.5	101.2	100.5	—
2052	Cookies and crackers	39.8	39.1	40.1	40.4	—	31.6	31.1	31.5	31.8	—
206	Sugar and confectionery products	107.5	111.3	117.9	111.0	—	82.2	86.0	92.1	85.7	—
2061-3	Cane and beet sugar	32.2	35.0	38.3	34.6	—	23.6	27.0	28.9	26.0	—
2065	Confectionery products	55.9	57.1	59.5	56.7	—	44.6	45.5	48.7	45.6	—
207	Fats and oils	41.1	42.1	41.1	40.7	—	29.6	30.3	29.9	29.8	—
208	Beverages	231.1	225.9	228.1	223.9	—	107.5	134.3	106.0	103.6	—
2082	Malt beverages	49.9	49.0	49.0	47.9	—	33.5	32.6	33.0	32.1	—
2086	Bottled and canned soft drinks	138.5	132.9	137.8	135.8	—	49.5	46.9	48.1	47.2	—
209	Misc. foods and kindred products	170.3	161.6	172.1	169.8	—	121.2	113.0	123.2	120.7	—
21	TOBACCO MANUFACTURES	72.7	74.6	76.5	73.2	70.3	57.8	59.6	62.1	58.7	56.1
211	Cigarettes	49.1	49.4	49.7	49.8	—	38.2	38.6	39.1	39.0	—
22	TEXTILE MILL PRODUCTS	910.6	911.6	910.4	904.3	904.2	793.0	793.1	793.4	788.3	786.5
221	Weaving mills, cotton	154.1	158.8	154.4	154.7	—	138.6	143.1	139.4	139.5	—
222	Weaving mills, synthetics	121.7	124.3	121.8	121.2	—	108.7	110.7	109.1	108.6	—
223	Weaving and finishing mills, wool	20.8	20.6	21.1	21.2	—	17.3	17.2	17.6	17.8	—
224	Narrow fabric mills	26.3	26.3	26.2	26.3	—	23.0	23.0	23.0	23.1	—
225	Knitting mills	240.5	232.3	236.6	233.1	—	208.0	200.3	203.7	200.9	—
2251	Women's hosiery, except socks	29.6	28.7	31.6	31.5	—	26.4	25.5	28.2	28.0	—
2252	Hosiery, nec	35.4	34.6	34.9	34.8	—	32.2	31.4	31.8	31.7	—
2253	Knit outerwear mills	75.4	70.4	71.5	69.0	—	64.3	59.5	60.6	58.5	—
2254	Knit underwear mills	37.5	36.7	37.3	37.7	—	32.4	31.9	32.0	32.5	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

1972 SIC Code	Industry	All employees					Production workers ¹				
		Avg.	Jan.	Dec.	Jan.	Feb.	Avg.	Jan.	Dec.	Jan.	Feb.
		1978	1978	1978	1979P	1979P	1978	1978	1978	1979P	1979P
	TEXTILE MILL PRODUCTS—Continued										
2257	Circular knit fabric mills	36.5	36.2	35.7	35.0	-	30.7	30.2	29.6	29.1	-
226	Textile finishing, except wool	79.8	80.9	79.6	79.3	-	67.7	68.5	67.6	67.3	-
2261	Finishing plants, cotton	33.5	33.7	33.5	33.6	-	28.0	28.3	28.1	28.0	-
2262	Finishing plants, synthetics	29.8	30.1	29.8	29.8	-	25.5	25.8	25.5	25.7	-
227	Floor covering mills	61.9	61.4	63.7	63.1	-	50.1	49.5	52.1	51.4	-
228	Yarn and thread mills	134.4	134.5	135.7	134.2	-	122.4	122.5	123.5	122.1	-
2281	Yarn mills, except wool	89.4	88.3	90.4	89.8	-	82.7	81.7	83.6	82.9	-
2282	Throwing and winding mills	21.9	22.0	22.0	21.6	-	19.4	19.5	19.5	19.3	-
229	Miscellaneous textile goods	71.2	72.5	71.3	71.2	-	57.1	58.3	57.4	57.6	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,315.0	1,291.4	1,305.3	1,290.8	1,301.9	1,129.9	1,106.6	1,118.1	1,105.3	1,115.6
231	Men's and boys' suits and coats	88.8	89.7	88.0	86.5	-	78.0	79.0	76.9	75.4	-
232	Men's and boys' furnishings	369.2	368.3	363.2	359.4	-	319.5	318.3	312.7	309.5	-
2321	Men's and boys' shirts and nightwear	103.7	101.2	103.6	102.3	-	90.3	88.0	89.9	88.7	-
2327	Men's and boys' separate trousers	85.7	86.4	83.3	82.2	-	75.0	75.5	72.7	71.6	-
2328	Men's and boys' work clothing	94.5	98.4	94.2	93.2	-	80.3	83.8	79.5	78.8	-
233	Women's and misses' outerwear	422.8	407.7	421.3	422.3	-	364.8	350.3	361.6	363.2	-
2331	Women's and misses' blouses and waists	58.1	56.8	59.6	59.9	-	51.0	49.8	52.4	52.6	-
2335	Women's and misses' dresses	157.9	150.5	156.2	157.6	-	139.0	132.3	136.1	137.9	-
2337	Women's and misses' suits and coats	64.0	59.3	61.1	61.1	-	54.8	50.0	52.1	52.4	-
2339	Women's and misses' outerwear, nec.	142.7	141.1	144.4	143.7	-	120.0	118.2	121.0	120.3	-
234	Women's and children's undergarments	93.9	93.4	91.8	90.2	-	80.3	79.9	78.2	76.5	-
2341	Women's and children's underwear	74.3	73.1	72.8	71.5	-	64.6	63.6	63.1	61.7	-
2342	Brassieres and allied garments	19.7	20.3	19.0	18.7	-	15.7	16.3	15.1	14.8	-
236	Children's outerwear	68.7	67.9	66.9	65.4	-	58.6	57.6	57.1	55.9	-
2361	Children's dresses and blouses	25.6	26.2	25.0	24.7	-	23.1	23.7	22.4	22.0	-
238	Misc. apparel and accessories	61.3	59.1	59.2	56.7	-	52.8	50.8	50.9	48.5	-
239	Misc. fabricated textile products	190.6	185.9	195.2	190.7	-	158.7	153.9	163.5	159.2	-
2391	Curtains and draperies	30.3	31.0	30.4	29.6	-	26.5	27.1	26.6	25.8	-
2392	House furnishings, nec.	51.5	50.6	51.8	50.9	-	42.9	41.9	43.6	42.7	-
2396	Automotive and apparel trimmings	35.8	34.6	38.7	37.4	-	29.8	28.7	32.5	31.3	-
26	PAPER AND ALLIED PRODUCTS	702.2	692.3	705.6	701.7	701.5	527.4	517.5	531.2	529.1	531.2
261, 26	Paper and pulp mills	203.4	204.2	200.6	199.7	-	153.4	155.4	148.9	148.1	-
262	Paper mills, except building paper	176.0	176.3	174.0	173.3	-	131.8	133.4	128.1	127.3	-
263	Paperboard mills	67.1	66.4	67.5	66.9	-	52.7	52.0	53.3	53.1	-
264	Misc. converted paper products	215.2	209.4	216.1	216.1	-	153.6	146.7	157.1	157.6	-
2641	Paper coating and glazing	56.7	55.1	57.8	57.8	-	30.4	26.5	35.0	35.4	-
2642	Envelopes	24.3	24.4	24.6	24.6	-	19.2	19.2	19.3	19.2	-
2643	Bags, except textile bags	49.2	48.2	50.9	50.9	-	38.7	38.3	39.8	39.8	-
265	Paperboard containers and boxes	216.6	212.3	221.4	219.0	-	167.6	163.4	171.9	170.3	-
2651	Folding paperboard boxes	42.4	41.7	43.6	43.2	-	33.7	32.8	34.9	34.5	-
2653	Corrugated and solid fiber boxes	108.5	105.9	110.6	110.1	-	80.4	78.1	82.3	82.1	-
2654	Sanitary food containers	33.3	32.8	33.5	33.1	-	27.6	27.2	27.7	27.6	-
27	PRINTING AND PUBLISHING	1,180.9	1,156.8	1,212.4	1,206.1	1,212.7	665.1	652.9	684.1	677.9	685.0
271	Newspapers	406.2	401.1	414.6	412.3	-	165.3	167.1	167.0	165.3	-
272	Periodicals	78.6	77.6	80.9	81.5	-	14.8	15.4	14.0	14.0	-
273	Books	102.6	101.1	104.1	104.5	-	52.1	51.5	52.9	53.9	-
2731	Book publishing	71.6	70.5	72.2	73.3	-	25.9	25.5	25.9	27.4	-
2732	Book printing	31.0	30.6	31.9	31.2	-	26.2	26.0	27.0	26.5	-
274	Miscellaneous publishing	46.1	44.7	48.5	48.2	-	27.9	26.1	30.6	30.0	-
275	Commercial printing	379.3	368.6	393.0	388.7	-	280.2	272.4	291.8	287.5	-
2751	Commercial printing, letterpress	164.7	160.3	170.9	167.9	-	122.0	119.3	127.0	123.6	-
2752	Commercial printing, lithographic	192.7	185.9	200.6	199.5	-	140.1	134.9	147.0	146.3	-
276	Manifold business forms	44.6	43.4	46.4	46.8	-	32.1	31.1	33.6	33.8	-
278	Blankbooks and bookbinding	61.0	58.7	62.2	62.1	-	50.3	48.1	51.4	51.1	-
279	Printing trade services	39.4	39.3	40.0	39.8	-	28.8	29.0	29.0	29.1	-
28	CHEMICALS AND ALLIED PRODUCTS	1,088.2	1,070.0	1,094.0	1,092.0	1,093.9	624.4	612.5	627.5	628.1	631.5
281	Industrial inorganic chemicals	164.4	162.6	166.7	166.6	-	93.1	93.4	92.9	92.8	-
2819	Industrial inorganic chemicals, nec.	108.6	106.9	110.0	110.1	-	59.9	58.9	60.5	61.0	-
282	Plastics materials and synthetics	214.3	212.5	214.9	214.5	-	145.2	142.4	146.6	146.8	-
2821	Plastics materials and resins	84.2	83.1	84.4	84.3	-	52.1	51.4	52.2	52.1	-
2824	Organic fibers, noncellulosic	95.1	95.0	95.4	95.1	-	67.8	66.8	68.4	68.5	-
283	Drugs	183.7	180.5	185.9	185.9	-	88.4	88.2	89.3	91.2	-
2834	Pharmaceutical preparations	146.5	144.0	148.6	148.5	-	67.6	67.8	68.6	70.7	-
284	Soap, cleaners, and toilet goods	134.7	129.6	136.2	135.2	-	82.4	78.2	83.4	82.9	-
2841	Soap and other detergents	40.6	40.0	41.5	41.5	-	26.1	25.6	27.0	27.5	-
2842, 3	Polishing, sanitation, and finishing preparations	37.6	36.3	38.4	38.4	-	21.0	19.9	21.7	21.7	-
2844	Toilet preparations	56.6	53.3	56.3	55.3	-	35.3	32.7	34.7	33.7	-
285	Paints and allied products	69.5	65.7	69.4	68.5	-	36.6	34.3	36.1	35.3	-
286	Industrial organic chemicals	164.1	164.7	163.3	163.6	-	84.8	84.8	84.7	84.6	-

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	35.5	35.7	35.8	35.9	-	22.0	21.9	22.6	22.6	-
2861,9	Gum, wood, and industrial organic chemicals, nec.	128.6	129.0	127.5	127.7	-	62.8	62.9	62.1	62.0	-
287	Agricultural chemicals	69.9	68.3	69.2	69.3	-	43.9	42.1	44.1	44.4	-
289	Miscellaneous chemical products	87.6	86.1	88.4	88.4	-	49.9	49.1	50.4	50.1	-
29	PETROLEUM AND COAL PRODUCTS	208.8	201.1	209.0	205.2	205.9	136.5	130.8	136.4	134.5	135.9
291	Petroleum refining	163.0	160.7	163.2	161.3	-	102.6	101.3	103.2	103.2	-
295	Paving and roofing materials	34.1	29.0	34.1	32.2	-	26.4	21.8	26.0	24.3	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	748.6	730.6	769.8	767.0	768.0	586.9	570.6	605.8	602.7	605.6
301	Tires and inner tubes	126.3	127.6	127.3	127.0	-	91.7	92.7	92.7	92.5	-
302	Rubber and plastics footwear	23.2	22.7	24.2	23.9	-	20.3	19.8	21.2	21.0	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting	23.0	23.9	22.5	22.3	-	17.3	18.2	16.9	16.8	-
306	Fabricated rubber products, nec	113.2	112.1	115.5	115.2	-	88.8	87.4	91.1	91.3	-
307	Miscellaneous plastics products	462.9	444.3	480.3	478.6	-	368.8	352.5	383.9	381.1	-
31	LEATHER AND LEATHER PRODUCTS	250.8	247.7	245.5	240.0	237.9	215.0	212.0	208.7	204.5	203.9
311	Leather tanning and finishing	22.1	22.6	21.2	20.8	-	18.8	19.2	17.8	17.5	-
314	Footwear, except rubber	155.7	154.4	152.1	149.5	-	135.8	134.7	131.4	129.5	-
3143	Men's footwear, except athletic	63.2	64.1	61.2	59.9	-	55.9	56.9	53.5	52.6	-
3144	Women's footwear, except athletic	61.7	60.5	61.9	61.4	-	53.3	52.0	53.1	52.9	-
316	Luggage	17.1	15.6	17.2	16.7	-	13.2	11.7	13.2	12.9	-
317	Handbags and personal leather goods	30.8	30.3	30.0	28.9	-	25.8	24.9	24.9	24.1	-
-	TRANSPORTATION AND PUBLIC UTILITIES	4,859	4,706	4,992	4,907	4,933	4,087	3,976	4,180	4,102	4,128
40	RAILROAD TRANSPORTATION	534.6	518.5	544.1	527.2	-	-	-	-	-	-
4011	Class 1 railroads	490.2	471.0	501.8	488.0	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	258.8	265.4	269.2	268.3	-	238.3	244.4	248.5	246.7	-
411	Local and suburban transportation	72.4	73.5	72.3	72.4	-	66.8	67.5	66.9	66.8	-
412	Taxis	67.7	68.7	68.8	68.8	-	-	-	-	-	-
413	Intercity highway transportation	37.5	36.7	37.6	37.5	-	34.4	33.6	34.6	34.5	-
415	School buses	67.5	75.0	76.8	76.0	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,266.9	1,202.5	1,320.2	1,257.1	-	1,122.1	1,061.1	1,170.0	1,109.2	-
421,3	Trucking and trucking terminals	1,181.1	1,118.2	1,232.3	1,171.8	-	1,048.1	988.7	1,093.9	1,035.9	-
422	Public warehousing	85.8	84.3	87.9	85.3	-	74.0	72.4	76.1	73.3	-
44	WATER TRANSPORTATION	206.5	201.3	212.5	208.8	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	396.0	390.3	406.8	405.2	-	-	-	-	-	-
451,2	Air transportation	352.0	347.8	361.3	359.5	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	19.0	18.6	18.9	18.9	-	13.7	13.4	13.5	13.6	-
47	TRANSPORTATION SERVICES	168.5	162.1	173.9	173.7	-	-	-	-	-	-
48	COMMUNICATION	1,232.1	1,194.5	1,262.0	1,263.8	-	933.2	906.3	952.6	955.9	-
481	Telephone communication	992.4	962.8	1,014.4	1,014.9	-	738.8	719.5	750.5	752.4	-
483	Radio and television broadcasting	177.0	172.9	181.0	181.5	-	139.5	135.5	143.9	144.2	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	776.3	752.7	784.2	783.9	-	635.3	618.2	640.2	640.6	-
491	Electric services	356.8	342.3	364.0	363.9	-	288.5	277.8	293.9	293.5	-
492	Gas production and distribution	160.7	157.7	160.7	160.6	-	131.7	129.4	131.3	131.0	-
493	Combination utility services	190.6	188.7	190.2	190.2	-	156.3	155.6	155.3	156.1	-
495	Sanitary services	43.7	41.8	44.5	44.8	-	38.7	37.3	39.3	39.7	-
-	WHOLESALE AND RETAIL TRADE	19,394	18,806	20,388	19,599	19,445	17,096	16,581	18,029	17,238	17,079
50,51	WHOLESALE TRADE	4,898	4,768	5,010	4,972	4,971	4,037	3,926	4,121	4,083	4,082
50	WHOLESALE TRADE - DURABLE GOODS	2,854	2,763	2,935	2,924	-	2,347	2,274	2,406	2,394	-
501	Motor vehicles and automotive equipment	418.7	405.5	429.8	428.6	-	344.0	333.0	351.7	349.7	-
502	Furniture and home furnishing	99.1	96.6	101.6	100.7	-	80.4	78.4	82.7	82.0	-
503	Lumber and construction materials	174.3	166.7	178.2	176.1	-	145.5	138.2	148.7	145.6	-
504	Sporting goods, toys, and hobby goods	63.1	62.0	63.7	62.4	-	52.5	51.4	52.8	51.3	-
505	Metals and minerals, except petroleum	138.0	131.8	142.5	141.9	-	112.1	106.8	115.7	115.1	-
506	Electrical goods	394.6	385.2	407.7	405.7	-	325.2	317.3	336.5	333.6	-
507	Hardware, plumbing, and heating equipment	232.2	225.1	239.8	238.5	-	192.5	187.1	198.7	197.6	-

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	
	WHOLESALE TRADE-DURABLE GOODS—											
	Continued											
508	Machinery, equipment, and supplies	1,140.7	1,104.8	1,171.3	1,172.6	-	933.1	906.9	950.5	952.3	-	-
509	Miscellaneous durable goods	192.8	184.8	200.4	197.7	-	161.9	154.4	169.1	166.4	-	-
51	WHOLESALE TRADE-NONDURABLE GOODS	2,044	2,005	2,075	2,048	-	1,690	1,652	1,715	1,689	-	-
511	Paper and paper products	132.3	130.0	135.6	134.3	-	107.8	106.9	110.0	108.4	-	-
512	Drugs, proprietaries, and sundries	135.9	132.1	140.1	137.1	-	116.3	113.0	120.4	117.6	-	-
513	Apparel, piece goods, and notions	158.2	154.0	160.2	159.0	-	125.6	121.6	126.6	126.1	-	-
514	Groceries and related products	623.4	613.2	624.8	618.8	-	541.1	529.2	542.8	536.4	-	-
516	Chemical and allied products	116.6	114.9	117.6	116.7	-	83.1	80.7	84.2	83.5	-	-
517	Petroleum and petroleum products	225.7	227.3	224.4	225.1	-	173.5	177.5	169.0	169.2	-	-
518	Beer, wine, and distilled beverages	131.5	126.3	136.9	134.5	-	111.6	106.7	116.7	114.1	-	-
519	Miscellaneous nondurable goods	360.7	350.2	364.0	359.2	-	298.2	288.0	301.5	297.3	-	-
62-69	RETAIL TRADE	14,496	14,038	15,378	14,627	14,474	13,060	12,655	13,908	13,155	12,997	
52	BUILDING MATERIALS AND GARDEN											
	SUPPLIES	587.0	560.0	601.1	579.9	-	501.1	474.4	514.3	492.7	-	-
521	Lumber and other building materials	314.8	300.0	318.3	311.4	-	270.8	256.3	273.7	266.5	-	-
525	Hardware stores	142.3	140.3	149.3	143.7	-	121.7	120.0	128.5	122.8	-	-
53	GENERAL MERCHANDISE STORES	2,328.0	2,355.7	2,673.5	2,385.5	-	2,169.9	2,191.6	2,514.2	2,228.0	-	-
531	Department stores	1,890.6	1,928.5	2,172.3	1,942.1	-	1,773.7	1,805.1	2,055.1	1,826.6	-	-
533	Variety stores	291.9	292.3	327.4	288.5	-	271.8	271.7	306.9	267.2	-	-
539	Misc. general merchandise stores	145.5	134.9	173.8	154.9	-	124.4	114.8	152.2	134.2	-	-
54	FOOD STORES	2,203.2	2,155.4	2,299.4	2,265.3	-	2,032.3	1,989.0	2,122.4	2,088.9	-	-
541	Grocery stores	1,938.6	1,896.7	2,019.0	2,001.6	-	1,791.3	1,754.1	1,864.8	1,848.2	-	-
542	Meat markets and freezer provisioners	47.3	48.6	49.6	48.3	-	-	-	-	-	-	-
546	Retail bakeries	116.9	114.1	121.2	117.0	-	107.3	104.7	111.5	107.6	-	-
55	AUTOMOTIVE DEALERS AND SERVICE											
	STATIONS	1,855.7	1,812.2	1,882.5	1,878.4	-	1,594.6	1,561.2	1,615.1	1,608.5	-	-
551,2	New and used car dealers	883.1	861.5	896.2	896.8	-	737.0	719.4	746.2	746.3	-	-
553	Auto and home supply stores	250.5	247.1	260.2	258.0	-	218.7	217.8	227.0	224.8	-	-
554	Gasoline service stations	644.1	630.6	650.2	648.9	-	572.9	563.4	577.4	574.0	-	-
56	APPAREL AND ACCESSORY STORES	883.7	889.9	1,012.6	905.6	-	765.1	773.3	890.2	784.5	-	-
561	Men's and boys' clothing and furnishings	141.2	144.7	166.4	146.6	-	120.7	124.1	145.2	125.5	-	-
562	Women's ready-to-wear stores	326.3	326.6	369.8	330.4	-	284.3	285.0	326.9	288.2	-	-
565	Family clothing stores	158.9	158.0	192.6	165.1	-	140.8	140.7	173.4	146.1	-	-
566	Shoe stores	171.3	172.8	188.7	174.1	-	143.6	145.9	160.1	146.0	-	-
57	FURNITURE AND HOME FURNISHINGS											
	STORES	591.5	586.7	621.1	607.3	-	491.6	490.1	519.4	503.7	-	-
571	Furniture and home furnishings	356.2	353.2	367.3	359.8	-	300.2	298.9	310.3	301.9	-	-
572	Household appliance stores	87.9	86.2	92.9	91.6	-	75.0	74.2	79.6	78.2	-	-
573	Radio, television, and music stores	147.4	147.3	160.9	155.9	-	116.4	117.0	129.5	123.6	-	-
58	EATING AND DRINKING PLACES	4,259.6	3,908.5	4,332.1	4,173.3	-	3,930.8	3,617.6	3,991.1	3,831.6	-	-
59	MISCELLANEOUS RETAIL	1,787.1	1,769.9	1,955.9	1,831.8	-	1,574.4	1,557.7	1,740.9	1,616.6	-	-
591	Drug stores and proprietary stores	501.5	499.5	533.7	522.1	-	456.8	454.6	488.1	476.7	-	-
592	Liquor stores	119.8	114.9	132.9	125.4	-	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	500.7	496.3	579.7	506.4	-	429.9	425.7	504.9	432.5	-	-
596	Nonstore retailers	277.7	272.5	302.6	278.7	-	258.9	253.4	287.2	263.4	-	-
598	Fuel and ice dealers	102.5	110.6	108.1	110.1	-	87.0	94.6	92.6	94.7	-	-
599	Retail stores, nec.	232.6	225.8	245.4	235.6	-	197.3	191.8	210.3	199.1	-	-
-	FINANCE, INSURANCE, AND REAL ESTATE ²	4,676	4,526	4,775	4,773	4,785	3,556	3,434	3,633	3,623	3,634	
60	BANKING	1,417.6	1,381.6	1,450.5	1,455.1	-	1,108.0	1,082.7	1,130.3	1,129.7	-	-
602	Commercial and stock savings banks	1,293.2	1,260.0	1,323.4	1,327.3	-	1,007.0	984.6	1,027.1	1,026.3	-	-
61	CREDIT AGENCIES OTHER THAN BANKS	498.3	481.7	513.8	514.2	-	382.8	369.3	396.4	395.0	-	-
612	Savings and loan associations	213.8	205.7	221.9	223.3	-	167.2	160.8	173.9	174.3	-	-
614	Personal credit institutions	196.8	190.2	202.4	201.6	-	149.1	143.6	154.2	153.2	-	-
62	SECURITY, COMMODITY BROKERS, AND SERVICES	188.5	182.9	195.3	197.2	-	-	-	-	-	-	-
621	Security brokers and dealers	154.7	150.1	160.0	161.7	-	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,193.8	1,169.4	1,211.9	1,212.6	-	832.8	813.1	847.0	845.5	-	-
531	Life insurance	522.5	521.5	522.0	520.9	-	312.0	310.9	311.9	309.5	-	-

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	138.9	136.1	141.5	141.3	-	112.4	110.9	114.3	113.9	-
633	Fire, marine, and casualty insurance	460.6	443.2	475.5	477.4	-	349.4	335.2	360.7	362.0	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	392.8	376.7	406.0	408.3	-	-	-	-	-	-
65	REAL ESTATE	855.0	808.1	865.4	853.1	-	-	-	-	-	-
651	Real estate operators and lessors	430.5	412.7	434.4	429.5	-	-	-	-	-	-
653	Real estate agents and managers	290.5	275.7	296.8	292.9	-	-	-	-	-	-
655	Subdividers and developers	109.7	96.3	109.2	105.8	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC.	29.9	29.2	29.8	30.0	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES.	99.7	96.0	102.0	102.1	-	-	-	-	-	-
-	SERVICES	15,979	15,316	16,245	16,021	16,181	14,229	13,658	14,425	14,195	14,340
70	HOTELS AND OTHER LODGING PLACES	954.6	874.2	906.0	891.9	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	913.6	841.6	875.0	860.7	-	840.7	771.0	805.5	792.4	-
72	PERSONAL SERVICES	897.0	892.1	905.3	897.0	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	353.3	352.3	354.1	350.8	-	314.9	314.1	315.2	311.8	-
723	Beauty shops	280.7	280.2	284.8	282.9	-	258.6	257.2	262.0	261.4	-
726	Funeral service and crematories	70.0	68.9	71.1	72.6	-	-	-	-	-	-
73	BUSINESS SERVICES	2,543.2	2,396.7	2,667.0	2,603.8	-	2,207.7	2,077.5	2,317.5	2,254.6	-
731	Advertising	141.1	133.2	146.4	120.6	-	104.2	98.9	108.1	89.4	-
732	Credit reporting and collection	86.8	83.9	87.6	85.8	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	101.0	97.4	104.3	102.5	-	-	-	-	-	-
734	Services to buildings	450.4	431.4	456.8	461.3	-	404.2	386.6	410.9	410.2	-
736	Personnel supply services	402.5	361.2	434.4	408.7	-	-	-	-	-	-
737	Computer and data processing services	209.4	197.5	224.9	225.8	-	172.2	162.7	185.2	185.8	-
75	AUTO REPAIR, SERVICES, AND GARAGES	518.4	497.2	530.4	523.0	-	446.0	427.7	457.0	448.7	-
753	Automotive repair shops	317.6	304.9	321.0	320.7	-	271.4	259.9	274.8	274.0	-
76	MISCELLANEOUS REPAIR SERVICES	244.3	240.4	250.8	250.7	-	209.3	207.0	214.7	214.8	-
78	MOTION PICTURES	220.3	207.6	214.5	214.0	-	194.2	181.9	190.2	189.3	-
781	Motion picture production and services	82.4	81.6	85.1	85.7	-	71.4	70.2	74.1	74.3	-
783	Motion picture theaters	127.6	115.7	119.2	117.8	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	687.4	582.5	626.8	589.5	-	623.7	522.0	564.4	527.4	-
80	HEALTH SERVICES	4,764.4	4,660.4	4,855.0	4,863.6	-	4,250.2	4,164.0	4,328.5	4,331.7	-
801	Offices of physicians	681.4	664.4	695.2	694.4	-	562.4	552.4	571.9	570.0	-
802	Offices of dentists	287.6	284.5	293.3	293.1	-	251.5	251.0	256.8	256.4	-
805	Nursing and personal care facilities	902.7	874.6	924.8	928.6	-	815.0	790.7	833.4	836.2	-
806	Hospitals	2,545.8	2,499.3	2,581.8	2,586.8	-	2,322.4	2,275.8	2,358.4	2,363.0	-
81	LEGAL SERVICES	422.0	403.5	436.2	437.6	-	365.9	351.6	375.6	376.3	-
82	EDUCATIONAL SERVICES	1,033.4	1,044.4	1,087.3	1,020.8	-	-	-	-	-	-
821	Elementary and secondary schools	231.9	235.0	236.2	234.4	-	-	-	-	-	-
822	Colleges and universities	699.9	709.2	744.3	680.9	-	-	-	-	-	-
83	SOCIAL SERVICES	944.0	879.2	972.5	968.9	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,528.1	1,500.7	1,553.6	1,539.4	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	856.1	814.7	885.9	890.3	-	711.2	678.7	731.4	735.9	-
891	Engineering and architectural services	462.5	436.5	477.3	472.8	-	390.8	368.4	401.9	398.9	-
893	Accounting, auditing, and bookkeeping	272.5	264.7	281.3	289.7	-	218.7	214.9	225.3	232.7	-
-	GOVERNMENT	15,476	15,352	15,687	15,520	15,738	-	-	-	-	-
-	FEDERAL GOVERNMENT	2,753	2,711	2,733	2,718	2,726	-	-	-	-	-
-	Executive	2,699.9	2,659.5	2,681.2	(*)	-	-	-	-	-	-
-	Department of Defense	910.3	906.4	902.0	(*)	-	-	-	-	-	-
-	Postal Service	648.6	645.6	651.4	(*)	-	-	-	-	-	-
-	Other executive agencies	1,141.0	1,107.5	1,127.8	(*)	-	-	-	-	-	-
-	Manufacturing activities	140.8	140.3	140.0	140.1	-	-	-	-	-	-
-	Shipbuilding	72.2	71.4	72.1	71.7	-	-	-	-	-	-

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 worker ¹				
		Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^p	Feb. 1979 ^p	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^p	Feb. 1979 ^p
	Executive—Continued										
	Transportation and public utilities, except Postal Service	37.7	36.9	37.8	36.9	—	—	—	—	—	—
	Services	383.7	372.9	376.3	372.9	—	—	—	—	—	
	Hospitals	235.8	231.5	230.7	229.4	—	—	—	—	—	
	Legislative	39.7	39.0	38.7	(*)	—	—	—	—	—	
	Judicial	12.8	12.6	12.9	(*)	—	—	—	—	—	
	STATE AND LOCAL GOVERNMENT	12,723	12,641	12,954	12,802	13,012	—	—	—	—	
	State government	3,413.7	3,377.8	3,482.5	3,408.2	—	—	—	—	—	
	Hospitals	553.5	550.5	559.6	560.9	—	—	—	—	—	
	State education	1,366.3	1,366.3	1,455.6	1,375.6	—	—	—	—	—	
	General administration including executive, legislative, and judicial functions	913.4	894.1	892.0	892.8	—	—	—	—	—	
	Local government	9,309.4	9,262.9	9,471.3	9,394.2	—	—	—	—	—	
	Transportation and public utilities	565.6	548.8	575.7	575.9	—	—	—	—	—	
	Hospitals	510.4	497.8	517.6	519.6	—	—	—	—	—	
	Local education	5,113.4	5,224.7	5,330.2	5,270.0	—	—	—	—	—	
	General administration including executive, legislative, and judicial functions	2,773.5	2,668.2	2,711.4	2,697.9	—	—	—	—	—	

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

* Not available.

^p preliminary.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	Avg. 1978	Dec. 1977	Oct. 1978	Nov. 1978	Dec. 1978
-	TOTAL	34,996	34,665	35,741	36,138	36,439
-	PRIVATE SECTOR	27,844	27,448	28,474	28,764	29,060
-	MINING	75	65	79	80	80
10	METAL MINING	7.0	6.0	7.4	7.5	7.5
11, 12	COAL MINING	7.3	4.3	8.2	8.4	8.3
13	OIL AND GAS EXTRACTION	52.4	47.5	55.0	55.6	56.1
131, 2	Crude petroleum, natural gas, and natural gas liquids	34.0	31.1	35.2	35.6	35.8
138	Oil and gas field services	18.4	16.4	19.8	20.0	20.3
14	NONMETALLIC MINERALS, EXCEPT FUELS	8.0	7.5	8.4	8.4	8.4
142	Crushed and broken stone	2.5	2.4	2.7	2.7	2.7
144	Sand and gravel	2.4	2.2	2.6	2.6	2.6
-	CONSTRUCTION	332	316	342	341	340
15	GENERAL BUILDING CONTRACTORS	120.4	114.7	122.5	121.0	121.1
152	Residential building construction	72.5	68.2	73.4	71.6	72.1
153	Operative builders	16.5	16.0	16.7	16.8	16.6
154	Nonresidential building construction	31.4	30.5	32.4	32.6	32.4
16	HEAVY CONSTRUCTION CONTRACTORS	52.3	49.3	55.7	53.8	51.4
161	Highway and street construction	14.0	11.5	16.5	15.2	14.0
162	Heavy construction, except highway	38.3	37.8	39.2	38.6	37.4
17	SPECIAL TRADE CONTRACTORS	159.5	151.7	164.2	165.7	167.2
171	Plumbing, heating, air conditioning	45.1	43.2	46.0	46.3	46.1
172	Painting, paper hanging, decorating	10.3	9.7	10.7	10.9	11.4
173	Electrical work	28.6	27.6	29.2	29.0	29.2
174	Masonry, stonework, and plastering	18.4	17.6	18.8	19.3	19.3
175	Carpentering and flooring	12.4	11.6	12.6	13.2	14.1
176	Roofing and sheet metal work	10.8	10.1	11.5	11.4	11.5
-	MANUFACTURING	6,172	6,000	6,349	6,366	6,328
24, 25, 32-39	DURABLE GOODS	2,868	2,754	2,971	2,995	2,991
20-23, 26-31	NONDURABLE GOODS	3,305	3,246	3,378	3,371	3,337
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	106.4	102.4	109.6	110.1	109.7
241	Logging camps and logging contractors	4.9	4.1	5.1	4.9	4.9
242	Sawmills and planing mills	21.7	20.7	22.3	22.2	22.4
2421	Sawmills and planing mills, general	15.1	14.5	15.5	15.4	15.5
243	Millwork, plywood, and structural members	42.0	40.6	43.5	43.9	43.8
244	Wooden containers	7.1	7.3	7.1	7.0	6.9
245	Wood buildings and mobile homes	10.1	10.0	10.5	10.4	10.2
249	Miscellaneous wood products	20.6	19.7	21.1	21.7	21.5
25	FURNITURE AND FIXTURES	141.5	138.9	145.0	146.9	146.4
251	Household furniture	107.1	105.7	109.6	111.0	110.2
2511	Wood household furniture	44.6	44.3	45.0	45.4	45.5
2512	Upholstered household furniture	37.1	36.5	38.1	38.5	38.0
2515	Mattresses and bedsprings	8.6	8.4	8.9	8.6	8.5
252	Office furniture	9.9	9.4	10.4	10.6	10.6
253	Public building and related furniture	4.8	4.8	4.8	4.9	5.0
254	Partitions and fixtures	9.7	8.9	10.3	10.4	10.4
259	Miscellaneous furniture and fixtures	10.0	10.1	9.9	10.0	10.2
32	STONE, CLAY, AND GLASS PRODUCTS	130.0	125.6	132.7	132.7	131.9
322	Glass and glassware, pressed or blown	47.2	45.8	46.7	46.5	46.0
3221	Glass containers	27.8	27.4	26.8	26.5	26.0
3229	Pressed and blown glass, nec	19.5	18.4	19.9	20.0	20.0
323	Products of purchased glass	11.5	10.7	12.3	12.4	12.3
324	Cement, hydraulic	1.6	1.5	1.7	1.6	1.6
325	Structural clay products	6.5	6.5	6.5	6.5	6.6
326	Pottery and related products	17.1	16.7	17.9	18.0	17.4
327	Concrete, gypsum, and plaster products	14.0	13.3	14.4	14.4	14.3
329	Misc. nonmetallic mineral products	29.3	28.3	30.4	30.5	31.0
33	PRIMARY METAL INDUSTRIES	120.0	112.9	125.1	125.8	128.2
331	Blast furnace and basic steel products	37.8	33.8	39.2	39.5	40.0
3312	Blast furnaces and steel mills	29.5	25.9	30.7	30.9	31.1
332	Iron and steel foundries	18.3	17.0	19.8	20.4	20.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Avg. 1978	Dec. 1977	Oct. 1978	Nov. 1978	Dec. 1978
PRIMARY METAL INDUSTRIES —Continued						
3321	Gray iron foundries	9.6	8.9	10.1	10.4	10.5
3322	Malleable iron foundries	1.6	1.4	1.6	1.7	1.7
3325	Steel foundries, nec	4.3	3.9	4.6	4.7	4.7
333	Primary nonferrous metals	4.4	4.2	4.5	4.4	4.5
3334	Primary aluminum	1.5	1.4	1.6	1.6	1.7
335	Nonferrous rolling and drawing	39.0	38.0	40.3	40.2	41.3
3351	Copper rolling and drawing	3.5	3.0	3.7	3.6	3.7
3353	Aluminum sheet, plate, and foil	4.5	4.2	4.7	4.6	4.6
3357	Nonferrous wire drawing and insulating	23.0	23.4	23.6	23.8	24.4
336	Nonferrous foundries	15.6	15.1	16.3	16.5	16.8
3361	Aluminum foundries	7.2	7.0	7.5	7.6	7.8
FABRICATED METAL PRODUCTS						
34		338.2	327.4	348.2	350.6	350.9
341	Metal cans and shipping containers	12.8	11.4	12.9	12.9	12.6
3411	Metal cans	11.2	9.9	11.0	11.2	10.9
342	Cutlery, hand tools, and hardware	62.9	61.6	63.9	64.8	65.0
3423, 5	Hand and edge tools, and hand saws and blades	16.9	16.2	17.1	17.4	17.5
3429	Hardware, nec	38.8	38.3	39.5	40.1	40.1
343	Plumbing and heating, except electric	17.0	16.3	17.5	17.8	17.9
344	Fabricated structural metal products	68.3	66.5	70.3	71.0	70.6
3441	Fabricated structural metal	7.1	6.9	7.3	7.4	7.4
3442	Metal doors, sash, and trim	23.1	23.7	23.6	23.7	23.1
3443	Fabricated plate work (boiler shops)	15.1	14.4	15.3	15.6	15.9
3444	Sheet metal work	13.8	12.9	14.2	14.3	14.3
345	Screw machine products, bolts, etc.	22.7	21.8	23.7	24.0	24.3
3451	Screw machine products	11.8	11.2	12.3	12.4	12.6
3452	Bolts, nuts, rivets, and washers	10.9	10.6	11.4	11.6	11.7
346	Metal forgings and stampings	56.8	56.1	59.1	58.8	58.5
3462	Iron and steel forgings	4.0	3.8	4.5	4.4	4.4
3465	Automotive stampings	15.2	15.5	16.3	16.2	16.2
3469	Metal stampings, nec	35.4	34.8	36.2	36.0	35.7
347	Metal services, nec	24.2	23.5	24.5	24.8	24.6
3471	Plating and polishing	17.8	17.5	17.9	18.1	17.9
3479	Metal coating and allied services	6.4	6.0	6.6	6.7	6.7
348	Ordnance and accessories, nec	16.0	15.7	16.1	16.2	16.4
349	Misc. fabricated metal products	57.6	54.5	60.4	60.3	61.0
3494	Valves and pipe fittings	20.7	19.7	21.1	21.5	21.8
3496	Misc. fabricated wire products	12.7	11.8	13.4	13.5	13.6
MACHINERY, EXCEPT ELECTRICAL						
35		433.4	409.4	447.7	453.1	459.8
351	Engines and turbines	22.6	21.2	23.3	24.3	24.7
3511	Turbines and turbine generator sets	6.0	5.7	6.1	6.1	6.1
3519	Internal combustion engines, nec	16.6	15.5	17.2	18.2	18.6
352	Farm and garden machinery	23.1	22.9	23.8	24.0	24.9
3523	Farm machinery and equipment	18.2	18.3	19.0	18.9	19.5
353	Construction and related machinery	41.1	37.7	42.4	43.0	43.2
3531	Construction machinery	14.5	13.5	14.5	14.5	14.4
3533	Oil field machinery	8.9	8.0	9.4	9.6	9.7
354	Metalworking machinery	51.8	49.3	53.1	53.6	54.1
3541	Machine tools, metal cutting types	8.2	7.6	8.5	8.7	8.8
3544	Special dies, tools, jigs, and fixtures	14.2	13.2	14.9	15.0	15.0
3545	Machine tool accessories	12.9	12.3	13.2	13.6	13.7
355	Special industry machinery	29.4	27.7	30.4	30.7	30.8
3551	Food products machinery	6.0	5.8	6.2	6.2	6.3
3552	Textile machinery	5.9	5.9	5.9	5.9	6.0
3555	Printing trades machinery	6.6	5.6	7.0	7.3	7.2
356	General industrial machinery	57.0	54.1	58.8	59.2	60.4
3561	Pumps and pumping equipment	10.7	10.3	11.1	11.1	11.3
3562	Ball and roller bearings	13.6	13.2	13.8	14.1	14.4
357	Office and computing machines	123.7	112.8	129.9	131.5	133.2
3573	Electronic computing equipment	95.3	86.1	100.4	101.3	103.0
358	Refrigeration and service machinery	36.9	35.3	37.6	37.5	38.9
3585	Refrigeration and heating equipment	24.4	23.6	24.5	24.3	25.6
359	Misc. machinery, except electrical	47.7	48.4	48.4	49.3	49.6
3599	Machinery, except electrical, nec	37.8	38.4	37.9	38.5	38.3
ELECTRIC AND ELECTRONIC EQUIPMENT						
36		820.7	801.8	844.8	851.5	851.5
361	Electric distributing equipment	43.4	43.8	43.4	43.7	43.8
3612	Transformers	20.3	20.1	20.4	20.4	20.5
3613	Switchgear and switchboard apparatus	23.1	23.7	23.0	23.3	23.3
362	Electrical industrial apparatus	92.4	88.6	94.3	95.2	95.4
3621	Motors and generators	51.3	49.1	52.4	52.8	52.5
3622	Industrial controls	28.9	27.9	29.5	29.6	30.1
363	Household appliances	61.7	62.8	63.0	59.9	58.1
3632	Household refrigerators and freezers	12.2	11.6	10.7	9.5	9.2
3633	Household laundry equipment	4.9	4.6	4.7	4.4	4.3
3634	Electric housewares and fans	26.4	28.0	28.8	27.9	26.6
364	Electric lighting and wiring equipment	98.9	95.9	102.4	103.3	103.4
3641	Electric lamps	24.3	24.7	24.7	25.0	25.0

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Avg. 1978	Dec. 1977	Oct. 1978	Nov. 1978	Dec. 1978
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	43.7	41.1	45.6	46.0	46.5
365	Radio and TV receiving equipment	65.3	70.1	68.4	68.5	66.3
3651	Radio and TV receiving sets	49.7	51.8	51.6	51.8	51.0
366	Communication equipment	176.5	172.0	181.4	184.2	186.0
3661	Telephone and telegraph apparatus	72.2	71.7	73.1	73.5	73.9
3662	Radio and TV communication equipment	104.4	100.3	108.3	110.7	112.1
367	Electronic components and accessories	227.8	215.3	235.9	240.1	242.0
3671-3	Electronic tubes	16.3	15.4	16.6	16.8	16.6
3674	Semiconductors and related devices	78.0	72.9	81.9	83.8	84.7
3679	Electronic components, nec	92.1	87.2	95.3	96.5	97.5
369	Misc. electrical equipment and supplies	54.6	53.3	56.0	56.6	56.5
3694	Engine electrical equipment	27.7	26.8	28.4	28.8	28.8
37	TRANSPORTATION EQUIPMENT	288.5	270.3	305.3	310.4	312.0
371	Motor vehicles and equipment	132.2	129.8	141.3	143.1	144.3
3711	Motor vehicles and car bodies	52.1	51.4	56.3	56.7	56.2
3713	Truck and bus bodies	5.5	5.4	5.7	5.8	5.8
3714	Motor vehicle parts and accessories	72.6	71.2	77.2	78.4	80.1
372	Aircraft and parts	92.1	80.4	99.4	101.8	101.9
3721	Aircraft	54.9	45.8	60.3	61.7	61.2
3724	Aircraft engines and engine parts	20.0	18.6	20.9	21.5	22.0
3728	Aircraft equipment, nec	17.2	16.0	18.2	18.6	18.7
373	Ship and boat building and repairing	22.1	22.4	22.5	22.4	22.7
3731	Ship building and repairing	14.5	15.1	14.6	14.6	14.7
374	Railroad equipment	5.0	4.6	5.3	5.3	5.3
376	Guided missiles, space vehicles, parts	16.1	15.2	16.0	16.8	17.0
3761	Guided missiles and space vehicles	12.8	12.4	12.7	13.4	13.5
379	Miscellaneous transportation equipment	15.1	12.7	15.4	15.4	15.4
38	INSTRUMENTS AND RELATED PRODUCTS	276.3	262.5	284.3	288.2	288.7
381	Engineering and scientific instruments	20.3	18.8	21.1	21.7	21.8
382	Measuring and controlling devices	92.1	86.7	93.9	94.9	95.4
3822	Environmental controls	24.7	24.8	24.2	24.0	23.8
3823	Process control instruments	15.7	14.9	16.2	16.3	16.5
3825	Instruments to measure electricity	37.5	33.0	39.3	39.5	40.0
383	Optical instruments and lenses	9.5	9.0	10.0	10.4	10.0
384	Medical instruments and supplies	76.0	71.8	78.3	80.2	81.3
3841	Surgical and medical instruments	32.8	30.6	34.0	35.5	35.8
3842	Surgical appliances and supplies	34.5	32.8	35.5	35.8	36.4
385	Ophthalmic goods	23.2	22.9	23.8	23.8	23.8
386	Photographic equipment and supplies	36.5	34.9	37.7	37.9	37.8
387	Watches, clocks, and watchcases	18.7	18.4	19.5	19.3	18.6
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	212.9	202.9	228.6	226.0	211.9
391	Jewelry, silverware, and plated ware	29.2	29.1	31.1	31.1	29.5
393	Musical instruments	11.8	11.3	12.1	12.4	12.0
394	Toys and sporting goods	62.1	56.2	69.0	66.4	56.3
394, 2, 4	Dolls, games, toys, and children's vehicles	31.7	24.5	39.3	37.1	27.7
3949	Sporting and athletic goods, nec	30.4	31.7	29.7	29.3	28.6
395	Pens, pencils, office and art supplies	18.8	18.4	19.2	19.3	19.3
396	Costume jewelry and notions	39.8	39.1	43.6	44.0	43.0
399	Miscellaneous manufactures	51.3	48.8	53.6	52.8	51.8
NONDURABLE GOODS						
20	FOOD AND KINDRED PRODUCTS	480.0	466.4	508.5	495.8	482.8
201	Meat products	108.9	106.9	112.4	113.9	113.9
2011	Meat packing plants	27.1	26.7	27.6	27.9	27.9
2013	Sausages and other prepared meats	20.2	20.2	20.5	20.9	20.9
2016	Poultry dressing plants	54.3	52.9	56.8	57.5	57.5
202	Dairy products	38.1	36.9	38.6	38.3	38.1
2026	Fluid milk	20.0	19.7	19.9	19.9	19.9
203	Preserved fruits and vegetables	93.7	83.0	106.5	95.2	85.0
2032	Canned specialties	9.7	9.7	10.4	9.6	10.5
2033	Canned fruits and vegetables	33.2	23.1	38.3	30.8	24.1
2037	Frozen fruits and vegetables	18.6	19.5	21.6	21.3	18.9
204	Grain mill products	28.4	28.3	29.0	28.9	28.3
205	Bakery products	60.9	61.5	61.3	61.6	60.8
2051	Bread, cake, and related products	41.9	43.0	42.0	42.4	42.1
2052	Cookies and crackers	18.9	18.5	19.3	19.2	18.7
206	Sugar and confectionery products	39.1	41.2	45.6	44.5	44.6
207	Fats and oils	5.0	5.1	4.9	5.0	5.0
208	Beverages	35.4	35.5	35.7	35.6	35.3
2082	Malt beverages	5.6	5.4	5.6	5.6	5.7
2086	Bottled and canned soft drinks	16.5	15.5	17.0	17.0	17.0
209	Misc. foods and kindred products	70.6	68.0	74.5	72.8	71.6
21	TOBACCO MANUFACTURES	26.6	29.7	29.8	29.2	29.1
211	Cigarettes	15.2	15.6	15.1	15.2	15.4

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Avg. 1978	Dec. 1977	Oct. 1978	Nov. 1978	Dec. 1978
22	TEXTILE MILL PRODUCTS	429.5	428.0	433.1	432.8	430.1
221	Weaving mills, cotton	65.8	68.0	65.4	65.9	66.4
222	Weaving mills, synthetics	49.1	50.4	49.3	49.4	49.4
223	Weaving and finishing mills, wool	8.0	7.9	8.1	8.1	8.2
224	Narrow fabric mills	15.4	15.3	15.4	15.6	15.6
225	Knitting mills	155.6	150.0	158.4	156.4	153.0
2251	Women's hosiery, except socks	22.8	22.3	23.9	24.6	24.6
2252	Hosiery, nec	25.9	25.4	26.0	26.1	25.7
2253	Knit outerwear mills	54.5	51.7	55.3	53.2	50.9
2254	Knit underwear mills	27.5	25.3	28.2	28.4	27.7
2257	Circular knit fabric mills	14.6	15.0	14.8	14.3	14.1
226	Textile finishing, except wool	23.7	24.3	23.3	23.3	23.3
2261	Finishing plants, cotton	10.2	10.2	10.3	10.3	10.2
2262	Finishing plants, synthetic	6.5	6.9	5.9	6.1	6.3
227	Floor covering mills	25.2	24.4	25.8	25.8	25.9
228	Yarn and thread mills	65.7	66.3	66.2	66.8	66.8
2281	Yarn mills, except wool	41.2	40.6	42.0	42.1	42.0
2282	Throwing and winding mills	12.4	12.7	12.5	12.5	12.5
229	Miscellaneous textile goods	21.2	21.4	21.2	21.5	21.5
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,066.6	1,061.5	1,077.0	1,074.7	1,058.4
231	Men's and boys' suits and coats	68.9	70.0	68.5	68.4	68.2
232	Men's and boys' furnishings	311.3	315.1	310.3	311.3	306.6
2321	Men's and boys' shirts and nightwear	90.8	89.9	92.7	91.8	90.8
2327	Men's and boys' separate trousers	70.4	72.3	69.3	69.4	68.7
2328	Men's and boys' work clothing	79.7	84.1	77.6	80.4	79.4
233	Women's and misses' outerwear	362.3	352.8	369.1	366.8	360.0
2331	Women's and misses' blouses and waists	51.2	50.3	52.6	53.0	52.8
2335	Women's and misses' dresses	137.4	132.5	140.4	138.5	134.5
2337	Women's and misses' suits and coats	52.9	49.8	54.4	52.2	50.4
2339	Women's and misses' outerwear, nec	120.8	120.2	121.7	123.1	122.3
234	Women's and children's undergarments	81.6	83.7	82.0	81.3	79.8
2341	Women's and children's underwear	65.5	66.7	66.2	65.4	64.1
2342	Brassieres and allied garments	16.1	17.0	15.8	15.9	15.7
236	Children's outerwear	59.0	58.3	59.0	58.1	57.8
2361	Children's dresses and blouses	22.9	23.8	22.9	22.9	22.6
238	Misc. apparel and accessories	47.9	47.1	47.7	47.9	46.2
239	Misc. fabricated textile products	122.3	121.4	127.1	127.6	126.5
2391	Curtains and draperies	24.2	25.7	24.6	24.5	24.1
2392	House furnishings, nec	32.8	33.6	33.6	32.9	32.4
2396	Automotive and apparel trimmings	18.2	18.3	19.9	20.1	20.2
26	PAPER AND ALLIED PRODUCTS	158.2	154.4	159.6	161.1	160.6
261, 26	Paper and pulp mills	25.7	25.3	24.5	25.6	25.8
262	Paper mills, except building paper	23.1	22.7	21.9	23.0	23.2
263	Paperboard mills	5.8	5.3	5.9	5.9	6.0
264	Misc. converted paper products	74.6	72.0	75.5	75.5	74.6
265	Paperboard containers and boxes	52.2	51.8	53.7	54.1	54.2
27	PRINTING AND PUBLISHING	452.1	437.6	460.8	465.6	470.5
271	Newspapers	142.3	137.8	144.9	147.0	147.7
272	Periodicals	47.0	44.2	48.6	49.0	49.2
273	Books	54.6	54.1	53.1	54.2	55.3
274	Miscellaneous publishing	25.4	25.5	25.5	25.6	26.7
275	Commercial printing	115.8	112.2	119.8	121.0	122.7
2751	Commercial printing, letterpress	53.3	52.7	54.9	56.0	56.9
2752	Commercial printing, lithographic	57.2	54.1	59.9	59.9	60.6
276	Manifold business forms	13.9	13.4	14.2	14.4	14.7
278	Blankbooks and bookbinding	31.6	29.8	32.8	32.4	32.4
279	Printing trade services	8.1	7.5	8.4	8.5	8.5
28	CHEMICALS AND ALLIED PRODUCTS	255.7	245.7	261.4	262.1	261.5
281	Industrial inorganic chemicals	22.1	21.1	22.8	22.9	23.2
2819	Industrial inorganic chemicals, nec	15.3	14.4	15.7	15.8	16.0
282	Plastics materials and synthetics	43.8	41.9	44.0	44.7	44.7
2821	Plastics materials and resins	10.1	9.5	10.4	10.5	10.6
2824	Organic fibers, noncellulosic	25.6	24.8	25.5	25.9	25.9
283	Drugs	73.3	71.9	74.4	75.0	75.5
2834	Pharmaceutical preparations	62.3	61.3	63.2	63.7	64.2
284	Soap, cleaners, and toilet goods	54.1	50.4	56.9	55.9	54.2
2841	Soap and other detergents	9.1	8.5	9.4	9.4	9.3
2844	Toilet preparations	32.9	30.6	35.0	33.8	32.4
285	Paints and allied products	12.1	10.8	12.7	12.8	12.7
286	Industrial organic chemicals	23.5	23.5	23.6	23.4	23.5
2861.9	Gum, wood, and industrial organic chemicals, nec	19.1	18.9	19.2	19.1	19.1
287	Agricultural chemicals	9.2	8.8	9.3	9.4	9.4
289	Miscellaneous chemical products	17.7	17.3	17.7	18.0	18.3

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Avg. 1978	Dec. 1977	Oct. 1978	Nov. 1978	Dec. 1978
29	PETROLEUM AND COAL PRODUCTS	24.7	23.9	24.8	25.0	24.8
291	Petroleum refining	19.8	19.0	19.7	19.8	19.7
30	RUBBER AND MISC. PLASTICS PRODUCTS	259.2	247.7	269.7	272.2	271.1
301	Tires and inner tubes	12.0	12.1	12.2	12.2	12.3
302	Rubber and plastics footwear	13.6	14.5	13.7	13.8	14.2
303,4	Reclaimed rubber, and rubber and plastics hose and belting	6.0	6.2	6.1	5.8	5.8
306	Fabricated rubber products, nec	39.1	38.5	39.7	40.4	40.4
307	Miscellaneous plastics products	188.4	176.4	198.0	200.0	198.4
31	LEATHER AND LEATHER PRODUCTS	151.9	151.5	153.2	152.0	148.5
311	Leather tanning and finishing	3.1	3.1	3.2	3.1	3.1
314	Footwear, except rubber	103.5	103.5	102.9	102.2	100.5
3143	Men's footwear, except athletic	40.1	41.1	39.4	38.9	38.5
3144	Women's footwear, except athletic	42.4	41.6	42.6	42.4	42.4
316	Luggage	9.2	8.9	9.8	9.9	9.2
317	Handbags and personal leather goods	21.9	21.8	22.7	22.2	21.4
-	TRANSPORTATION AND PUBLIC UTILITIES	1,117	1,077	1,151	1,156	1,165
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	50.8	52.8	55.1	56.1	57.2
411	Local and suburban transportation	9.3	8.7	9.4	9.8	10.2
412	Taxicabs	7.4	7.0	7.6	7.8	8.0
413	Intercity highway transportation	4.7	4.5	4.6	4.5	4.8
415	School buses	27.1	30.4	30.9	31.5	31.7
42	TRUCKING AND WAREHOUSING	136.4	130.1	141.2	142.6	144.7
421,3	Trucking and trucking terminals	121.5	115.2	124.8	126.8	129.1
422	Public warehousing	14.9	14.9	16.4	15.8	15.6
44	WATER TRANSPORTATION	17.8	16.7	18.0	18.2	18.5
45	TRANSPORTATION BY AIR	121.4	117.9	122.5	123.1	125.2
451,2	Air transportation	114.4	111.5	115.3	116.1	118.0
46	PIPE LINES, EXCEPT NATURAL GAS	1.9	2.1	2.0	2.0	2.0
47	TRANSPORTATION SERVICES	74.1	70.3	76.0	75.9	76.0
48	COMMUNICATION	563.0	541.8	580.9	582.6	585.6
481	Telephone communication	496.5	477.5	512.1	513.2	515.3
483	Radio and television broadcasting	51.9	50.2	53.5	54.1	54.8
49	ELECTRIC, GAS, AND SANITARY SERVICES	131.9	126.5	133.2	133.5	134.8
491	Electric services	59.2	56.6	60.1	60.2	60.9
492	Gas production and distribution	32.6	31.2	32.9	32.8	33.1
493	Combination utility services	30.9	30.2	30.9	31.1	31.3
495	Sanitary services	4.5	4.0	4.5	4.5	4.5
-	WHOLESALE AND RETAIL TRADE	8,218	8,445	8,413	8,611	8,895
50,51	WHOLESALE TRADE	1,216	1,180	1,258	1,265	1,271
50	WHOLESALE TRADE-DURABLE GOODS	661	635	680	689	694
501	Motor vehicles and automotive equipment	87.5	83.6	90.4	91.4	91.5
502	Furniture and home furnishings	34.6	33.3	35.1	36.0	36.1
503	Lumber and construction materials	28.1	26.8	29.2	29.3	29.4
504	Sporting goods, toys, and hobby goods	22.0	22.3	21.9	22.3	22.5
505	Metals and minerals, except petroleum	24.8	23.3	25.9	26.0	26.1
506	Electrical goods	108.2	103.7	112.0	114.1	114.6
507	Hardware, plumbing, and heating equipment	62.1	59.0	64.3	65.3	65.6
508	Machinery, equipment, and supplies	246.4	236.0	253.0	255.3	258.5
509	Miscellaneous durable goods	47.4	47.3	47.8	49.4	49.6
51	WHOLESALE TRADE-NONDURABLE GOODS	555	545	578	576	577
511	Paper and paper products	38.7	38.9	39.0	39.2	39.6
512	Drugs, proprietaries, and sundries	58.0	55.9	59.8	60.5	61.0
513	Apparel, piece goods, and notions	75.9	73.8	78.6	77.7	77.1
514	Groceries and related products	144.3	145.1	145.8	143.1	144.4
516	Chemicals and allied products	28.7	27.5	29.2	29.3	29.8
517	Petroleum and petroleum products	46.4	44.3	47.0	47.4	47.8
518	Beer, wine, and distilled beverages	19.4	19.0	19.8	20.1	20.4
519	Miscellaneous nondurable goods	103.3	101.6	107.2	108.4	108.1

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Avg. 1978	Dec. 1977	Oct. 1978	Nov. 1978	Dec. 1978
52-59	RETAIL TRADE	7,002	7,265	7,155	7,346	7,624
52	BUILDING MATERIALS AND GARDEN SUPPLIES	142.0	140.3	145.5	148.2	150.8
521	Lumber and other building materials	56.9	55.3	58.5	59.2	59.2
525	Hardware stores	48.8	50.4	49.6	51.4	53.8
53	GENERAL MERCHANDISE STORES	1,574.7	1,810.1	1,590.8	1,684.6	1,829.8
531	Department stores	1,253.7	1,450.8	1,264.5	1,345.4	1,464.0
533	Variety stores	226.1	254.9	228.8	239.2	254.0
539	Misc. general merchandise stores	95.0	104.4	97.5	100.0	111.8
54	FOOD STORES	895.5	895.9	916.7	938.1	951.1
541	Grocery stores	751.4	739.7	770.3	785.7	795.1
542	Meat markets and freezer provisioners	13.6	16.1	14.3	14.4	14.7
546	Retail bakeries	69.6	72.7	70.7	71.8	72.2
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	296.3	283.1	305.9	308.8	309.7
551,2	New and used car dealers	118.8	114.2	122.3	123.3	123.3
553	Auto and home supply stores	44.0	42.4	44.7	45.4	47.4
554	Gasoline service stations	119.3	112.6	124.9	126.2	125.1
56	APPAREL AND ACCESSORY STORES	600.3	682.9	605.6	639.6	702.8
561	Men's and boys' clothing and furnishings	60.7	72.0	60.3	64.1	75.7
562	Women's ready-to-wear stores	286.3	321.3	292.3	304.7	330.0
565	Family clothing stores	118.2	140.6	117.2	126.2	144.7
566	Shoe stores	68.6	73.9	70.2	73.2	77.5
57	FURNITURE AND HOME FURNISHING STORES	184.5	189.0	186.4	192.4	196.8
571	Furniture and home furnishings	123.6	125.2	124.8	127.4	128.4
572	Household appliance stores	23.9	24.7	24.1	25.4	25.8
573	Radio, television, and music stores	37.0	39.1	37.5	39.6	42.6
58	EATING AND DRINKING PLACES	2,381.3	2,266.4	2,447.5	2,432.4	2,433.6
59	MISCELLANEOUS RETAIL	927.1	997.5	956.7	1,001.5	1,049.7
591	Drug stores and proprietary stores	293.6	312.9	302.0	307.6	322.4
592	Liquor stores	25.9	25.6	27.6	29.2	32.1
594	Miscellaneous shopping goods stores	298.9	330.4	308.4	331.8	358.2
596	Nonstore retailers	156.3	170.1	165.1	175.1	173.3
598	Fuel and ice dealers	21.9	22.6	21.8	22.2	22.7
599	Retail stores, nec	110.7	117.4	110.3	114.0	119.1
-	FINANCE, INSURANCE, AND REAL ESTATE	2,687	2,586	2,739	2,761	2,775
60	BANKING	981.3	946.3	998.3	1,006.0	1,011.8
602	Commercial and stock savings banks	902.8	870.5	918.8	925.8	930.8
61	CREDIT AGENCIES OTHER THAN BANKS	320.9	307.4	328.7	331.7	334.5
612	Savings and loan associations	155.2	147.5	159.2	160.4	162.0
614	Personal credit institutions	111.4	106.8	114.0	115.2	116.5
62	SECURITY, COMMODITY BROKERS, AND SERVICES	72.0	68.8	74.4	75.8	75.8
621	Security brokers and dealers	58.1	55.3	59.9	61.2	61.1
63	INSURANCE CARRIERS	703.6	677.5	715.5	720.1	724.9
631	Life insurance	271.2	268.8	271.3	272.4	274.4
632	Medical service and health insurance	100.4	98.1	101.4	102.0	102.7
633	Fire, marine, and casualty insurance	283.4	265.5	293.1	295.7	297.8
64	INSURANCE AGENTS, BROKERS, AND SERVICE	239.1	227.8	244.4	246.5	247.7
65	REAL ESTATE	303.2	292.0	309.6	312.1	310.3
651	Real estate operators and lessors	131.4	128.1	133.4	134.6	134.5
653	Real estate agents and managers	126.9	120.6	130.0	130.3	129.9
655	Subdividers and developers	27.8	27.1	28.2	29.1	28.0
66	COMBINED REAL ESTATE, INSURANCE, ETC.	18.5	18.4	18.6	18.5	18.6
67	HOLDING AND OTHER INVESTMENT OFFICES	48.6	47.8	49.2	50.1	51.1
-	SERVICES	9,242	8,959	9,401	9,449	9,477
70	HOTELS AND OTHER LODGING PLACES	514.7	476.4	515.8	497.7	483.8
701	Hotels, motels, and tourist courts	492.6	458.7	498.0	481.3	467.1

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Avg. 1978	Dec. 1977	Oct. 1978	Nov. 1978	Dec. 1978
72	PERSONAL SERVICES	598.5	598.7	603.0	604.5	609.8
721	Laundry, cleaning, and garment services	220.4	221.4	222.5	222.2	221.5
723	Beauty shops	248.5	250.1	249.6	250.1	253.8
726	Funeral service and crematories	18.2	17.6	18.3	18.3	18.5
73	BUSINESS SERVICES	1,067.6	1,024.8	1,118.8	1,137.4	1,146.8
731	Advertising	63.3	58.8	65.7	66.9	66.9
732	Credit reporting and collection	64.4	61.3	65.9	66.0	65.3
733	Mailing, reproduction, stenographic	48.7	46.1	51.3	53.8	51.0
734	Services to buildings	158.6	152.3	164.2	165.3	165.0
736	Personnel supply services	231.2	229.6	247.7	253.9	257.9
737	Computer and data processing services	98.9	91.0	102.8	105.2	107.4
79	AUTO REPAIR, SERVICES, AND GARAGES	84.5	79.5	87.4	87.5	86.9
753	Automotive repair shops	37.7	35.8	39.5	38.2	37.5
76	MISCELLANEOUS REPAIR SERVICES	46.4	46.3	47.8	48.8	50.5
78	MOTION PICTURES	81.5	78.7	82.3	81.3	80.9
781	Motion picture production and services	23.6	26.0	25.1	25.7	26.0
783	Motion picture theaters	52.5	47.3	51.6	50.1	49.4
79	AMUSEMENT AND RECREATION SERVICES	261.8	232.0	254.1	241.7	241.9
80	HEALTH SERVICES	3,867.6	3,771.9	3,914.6	3,938.1	3,944.8
801	Offices of physicians	534.2	521.1	541.5	542.7	545.5
802	Offices of dentists	247.1	245.6	247.1	250.4	253.1
805	Nursing and personal care facilities	802.2	772.8	817.7	821.2	822.2
806	Hospitals	2,049.1	2,004.4	2,069.9	2,080.0	2,079.3
81	LEGAL SERVICES	301.5	289.5	305.4	309.5	311.6
82	EDUCATIONAL SERVICES	524.1	552.6	548.4	556.4	547.8
821	Elementary and secondary schools	145.6	148.5	147.3	150.1	148.9
822	Colleges and universities	322.0	348.1	343.6	347.7	340.5
83	SOCIAL SERVICES	692.0	645.5	710.1	716.9	727.2
89	MISCELLANEOUS SERVICES	256.9	240.3	259.9	264.6	268.0
891	Engineering and architectural services	89.1	82.6	91.2	93.0	93.8
893	Accounting, auditing, and bookkeeping	116.1	109.5	116.6	118.3	120.4
-	GOVERNMENT	7,153	7,217	7,267	7,374	7,379
-	FEDERAL GOVERNMENT	869	846	866	864	858
-	STATE AND LOCAL GOVERNMENT	6,283	6,371	6,401	6,510	6,521
-	State government	1,516.2	1,546.5	1,538.0	1,561.2	1,559.1
-	Hospitals	317.5	323.2	315.3	318.7	325.7
-	State education	605.1	638.2	643.1	673.3	666.9
-	General administration including executive, legislative, and judicial functions	407.0	403.6	393.8	385.3	382.4
-	Local government	4,767.2	4,824.6	4,862.7	4,949.2	4,961.8
-	Transportation and public utilities	75.5	68.1	79.2	80.6	81.9
-	Hospitals	392.2	380.4	397.2	399.5	400.2
-	Local education	3,195.6	3,321.6	3,321.7	3,400.3	3,416.6
-	General administration including executive, legislative, and judicial functions	914.5	863.2	880.9	888.3	881.0

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	1978											1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. P	Feb. P
TOTAL	84,188	84,726	85,418	85,618	85,996	86,033	86,149	86,163	86,573	87,036	87,281	87,465	87,766
GOODS-PRODUCING	24,724	24,927	25,313	25,341	25,473	25,501	25,463	25,471	25,670	25,872	26,030	26,099	26,149
MINING	684	698	867	869	879	882	887	887	893	903	904	908	916
CONSTRUCTION	3,901	3,999	4,164	4,175	4,278	4,317	4,298	4,298	4,341	4,368	4,397	4,379	4,348
MANUFACTURING	20,139	20,230	20,282	20,297	20,316	20,302	20,278	20,286	20,436	20,601	20,729	20,812	20,885
DURABLE GOODS	11,986	12,041	12,076	12,093	12,109	12,138	12,146	12,166	12,305	12,410	12,491	12,553	12,635
Lumber and wood products	756	752	751	745	747	743	743	744	748	759	765	770	777
Furniture and fixtures	487	491	491	489	486	485	481	480	484	487	491	494	494
Stone, clay, and glass products	691	692	699	700	701	698	692	692	696	701	707	705	714
Primary metal industries	1,193	1,189	1,192	1,197	1,197	1,199	1,205	1,214	1,220	1,235	1,240	1,239	1,247
Fabricated metal products	1,638	1,639	1,646	1,652	1,645	1,643	1,646	1,650	1,667	1,684	1,697	1,705	1,709
Machinery, except electrical	2,271	2,289	2,309	2,311	2,332	2,345	2,351	2,358	2,391	2,404	2,425	2,445	2,461
Electric and electronic equipment	1,935	1,951	1,951	1,952	1,962	1,977	1,975	1,972	1,987	2,001	2,011	2,025	2,039
Transportation equipment	1,928	1,944	1,936	1,942	1,929	1,937	1,941	1,943	1,991	2,010	2,021	2,029	2,052
Instruments and related products	635	639	644	649	654	660	661	662	665	671	676	682	688
Miscellaneous manufacturing ind.	452	455	457	456	456	451	451	451	456	458	458	459	454
NONDURABLE GOODS	8,153	8,189	8,206	8,204	8,207	8,164	8,132	8,120	8,131	8,191	8,238	8,259	8,250
Food and kindred products	1,705	1,718	1,715	1,701	1,702	1,688	1,670	1,665	1,667	1,693	1,711	1,714	1,709
Tobacco manufactures	74	76	74	75	76	73	69	70	71	71	72	72	72
Textile mill products	917	916	911	913	908	909	903	907	907	910	910	910	909
Apparel and other textile products	1,315	1,319	1,330	1,326	1,325	1,307	1,309	1,309	1,307	1,307	1,312	1,317	1,307
Paper and allied products	699	703	706	709	709	710	698	697	692	700	705	708	709
Printing and publishing	1,163	1,171	1,174	1,180	1,186	1,187	1,188	1,178	1,185	1,198	1,203	1,209	1,215
Chemicals and allied products	1,081	1,081	1,085	1,093	1,091	1,091	1,089	1,088	1,089	1,093	1,097	1,101	1,102
Petroleum and coal products	208	209	210	207	209	207	209	209	210	210	211	211	212
Rubber and misc. plastic products	738	744	748	747	749	749	746	744	752	761	771	773	775
Leather and leather products	253	252	253	253	252	243	251	253	251	248	246	244	240
SERVICE-PRODUCING	59,464	59,799	60,105	60,277	60,523	60,532	60,686	60,692	60,903	61,164	61,251	61,366	61,617
TRANSPORTATION AND PUBLIC UTILITIES	4,782	4,817	4,847	4,847	4,881	4,827	4,846	4,855	4,922	4,947	4,697	4,962	4,998
WHOLESALE AND RETAIL TRADE ..	19,071	19,169	19,252	19,335	19,412	19,469	19,523	19,546	19,632	19,701	19,697	19,797	19,927
WHOLESALE TRADE	4,828	4,854	4,872	4,885	4,905	4,901	4,905	4,917	4,945	4,968	4,995	5,007	5,021
RETAIL TRADE	14,243	14,315	14,380	14,450	14,507	14,568	14,618	14,629	14,687	14,733	14,702	14,790	14,906
FINANCE, INSURANCE, AND REAL ESTATE	4,591	4,605	4,623	4,637	4,670	4,690	4,707	4,719	4,737	4,774	4,789	4,811	4,828
SERVICES	15,670	15,773	15,866	15,896	15,963	15,989	16,074	16,127	16,169	16,270	16,327	16,315	16,378
GOVERNMENT	15,350	15,435	15,517	15,562	15,597	15,557	15,536	15,445	15,443	15,472	15,471	15,481	15,486
FEDERAL	2,736	2,739	2,745	2,753	2,772	2,765	2,765	2,752	2,760	2,757	2,734	2,743	2,742
STATE AND LOCAL	12,614	12,696	12,772	12,809	12,825	12,792	12,771	12,693	12,683	12,715	12,737	12,738	12,744

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	1977	1978											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
TOTAL	34,013	34,167	34,313	34,531	34,755	34,921	35,077	35,099	35,170	35,256	35,381	35,522	35,758
GOODS-PRODUCING	6,388	6,432	6,458	6,510	6,545	6,568	6,592	6,584	6,587	6,594	6,645	6,703	6,754
MINING	66	68	68	68	73	73	75	77	77	78	79	80	81
CONSTRUCTION	316	320	320	326	328	329	334	337	338	337	339	339	340
MANUFACTURING	6,006	6,044	6,070	6,116	6,114	6,166	6,183	6,170	6,172	6,179	6,227	6,284	6,333
DURABLE GOODS	2,746	2,773	2,794	2,819	2,831	2,848	2,862	2,870	2,875	2,887	2,924	2,954	2,982
Lumber and wood products	103	104	105	105	105	106	107	106	106	106	108	110	111
Furnitures and fixtures	137	139	140	141	141	142	141	142	141	141	142	143	144
Stone, clay, and glass products	127	129	130	130	130	130	129	129	130	130	130	131	133
Primary metal industries	113	114	114	115	115	117	120	121	122	124	125	126	128
Fabricated metal products	327	329	332	334	336	339	339	336	337	338	343	346	350
Machinery, except electrical	407	412	414	419	426	429	433	437	437	441	448	450	457
Electric and electronic equipment	795	800	807	813	813	815	818	823	823	821	831	838	845
Transportation equipment	269	274	276	281	280	284	285	286	286	291	300	308	311
Instruments and related products	261	264	266	268	271	273	277	279	281	282	282	285	287
Miscellaneous manufacturing ind.	207	208	210	213	214	213	213	211	212	213	215	217	216
NONDURABLE GOODS	3,260	3,271	3,276	3,297	3,313	3,318	3,321	3,300	3,297	3,292	3,303	3,330	3,351
Food and kindred products	478	482	482	484	485	480	485	482	469	467	417	485	495
Tobacco manufactures	28	27	27	28	27	28	27	27	24	25	26	26	27
Textile mill products	428	430	430	431	429	430	429	430	428	429	430	430	431
Apparel and other textile products	1,067	1,066	1,065	1,069	1,078	1,076	1,074	1,059	1,064	1,064	1,061	1,061	1,064
Paper and allied products	154	155	156	157	159	161	160	159	159	158	157	159	160
Printing and publishing	434	438	440	446	447	451	452	452	456	455	459	464	466
Chemicals and allied products	247	248	249	252	253	256	256	258	257	257	258	261	263
Petroleum and coal products	24	24	24	24	25	25	25	25	25	25	25	25	25
Rubber and misc. plastics products	248	249	251	254	257	258	260	260	262	258	262	268	271
Leather and leather products	152	152	152	152	153	153	153	148	153	154	154	151	149
SERVICE-PRODUCING	27,625	27,735	27,855	28,021	28,210	28,353	28,485	28,515	28,583	28,662	28,736	28,919	29,004
TRANSPORTATION AND PUBLIC UTILITIES	1,071	1,075	1,086	1,094	1,104	1,102	1,115	1,117	1,127	1,131	1,145	1,150	1,158
WHOLESALE AND RETAIL TRADE ..	7,947	8,006	8,050	8,098	8,138	8,188	8,225	8,258	8,303	8,322	8,354	8,389	8,372
WHOLESALE TRADE	1,170	1,176	1,184	1,196	1,207	1,210	1,217	1,215	1,216	1,222	1,242	1,250	1,260
RETAIL TRADE	6,777	6,830	6,866	6,902	6,931	6,978	7,008	7,043	7,087	7,100	7,112	7,139	7,112
FINANCE, INSURANCE, AND REAL ESTATE	2,589	2,602	2,618	2,631	2,646	2,658	2,679	2,696	2,709	2,720	2,742	2,764	2,778
SERVICES	8,986	9,003	9,035	9,109	9,144	9,176	9,220	9,260	9,315	9,333	9,354	9,440	9,506
GOVERNMENT	7,032	7,049	7,066	7,089	7,178	7,229	7,246	7,184	7,129	7,156	7,141	7,176	7,190
FEDERAL	847	855	856	858	863	882	874	879	880	877	878	874	859
STATE AND LOCAL	6,185	6,194	6,210	6,231	6,315	6,347	6,372	6,305	6,249	6,279	6,263	6,302	6,331

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 workers¹ on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

[In thousands]

Industry division and group	1978											1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. ^P	Feb. ^P
TOTAL PRIVATE	56,348	56,744	57,263	57,428	57,653 ^C	57,710	57,771	57,861	58,151	58,576	58,780	58,842	59,103
GOODS-PRODUCING	18,016	18,198	18,541	18,565	18,660	18,675	18,619	18,629	18,795	18,974	19,114	19,149	19,193
MINING	494	509	655	659	663	667	668	671	675	683	682	688	695
CONSTRUCTION	3,023	3,122	3,288	3,303	3,401	3,439	3,419	3,422	3,465	3,488	3,513	3,461	3,424
MANUFACTURING	14,499	14,567	14,598	14,603	14,596	14,569	14,532	14,536	14,655	14,803	14,919	15,000	15,074
DURABLE GOODS	8,620	8,661	8,676	8,685	8,683	8,694	8,693	8,706	8,816	8,909	8,985	9,039	9,127
Lumber and wood products	650	647	646	639	641	637	636	636	641	649	654	659	664
Furniture and fixtures	401	405	405	404	400	398	394	395	398	400	403	405	406
Stone, clay, and glass products	551	552	558	557	558	554	549	548	551	556	561	560	568
Primary metal industries	937	933	934	939	939	942	947	953	960	976	981	980	990
Fabricated metal products	1,247	1,247	1,251	1,257	1,250	1,245	1,245	1,248	1,264	1,280	1,291	1,293	1,304
Machinery, except electrical	1,493	1,507	1,517	1,516	1,533	1,547	1,544	1,550	1,576	1,581	1,603	1,618	1,638
Electric and electronic equipment	1,276	1,288	1,284	1,283	1,284	1,293	1,293	1,290	1,301	1,312	1,320	1,333	1,349
Transportation equipment	1,332	1,342	1,337	1,344	1,327	1,328	1,336	1,337	1,370	1,393	1,407	1,418	1,433
Instruments and related products	388	391	394	397	402	407	405	406	408	412	416	421	429
Miscellaneous manufacturing ind.	345	349	350	349	349	343	344	343	347	350	349	352	346
NONDURABLE GOODS	5,879	5,906	5,922	5,918	5,913	5,875	5,839	5,830	5,839	5,894	5,934	5,961	5,947
Food and kindred products	1,158	1,168	1,167	1,154	1,152	1,142	1,124	1,122	1,122	1,148	1,166	1,171	1,157
Tobacco manufactures	59	60	59	60	61	58	54	56	57	56	58	58	57
Textile mill products	798	798	794	795	792	791	785	790	790	795	793	794	790
Apparel and other textile products	1,131	1,134	1,144	1,140	1,137	1,121	1,127	1,124	1,123	1,123	1,124	1,130	1,122
Paper and allied products	525	527	530	535	535	535	523	522	519	525	531	535	538
Printing and publishing	658	663	664	668	668	669	667	657	663	672	676	681	687
Chemicals and allied products	620	620	624	628	628	628	623	624	624	627	630	634	637
Petroleum and coal products	136	137	137	135	136	135	136	137	137	138	139	140	141
Rubber and misc. plastics products	578	583	586	586	587	587	584	581	589	598	607	609	612
Leather and leather products	216	216	217	217	217	209	216	217	215	212	210	209	206
SERVICE-PRODUCING	38,332	38,546	38,722	38,863	38,993	39,035	39,152	39,232	39,356	39,602	39,666	39,693	39,910
TRANSPORTATION AND PUBLIC UTILITIES	4,044	4,067	4,094	4,086	4,109	4,051	4,066	4,064	4,129	4,150	4,155	4,156	4,191
WHOLESALE AND RETAIL TRADE ..	16,812	16,894	16,952	17,079	17,106	17,165	17,214	17,228	17,288	17,372	17,355	17,404	17,531
WHOLESALE TRADE	3,982	4,007	4,020	4,026	4,043	4,040	4,042	4,053	4,075	4,093	4,109	4,116	4,132
RETAIL TRADE	12,830	12,887	12,932	13,053	13,063	13,125	13,172	13,175	13,213	13,279	13,246	13,288	13,399
FINANCE, INSURANCE, AND REAL ESTATE	3,494	3,500	3,516	3,523	3,546	3,565	3,579	3,591	3,603	3,635	3,644	3,663	3,674
SERVICES	13,982	14,085	14,160	14,175	14,232	14,254	14,293	14,349	14,336	14,445	14,512	14,470	14,514

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

^ppreliminary.
^ccorrected.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT**

**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
1976				
January.....	78.2	85.8	87.2	85.2
February.....	72.4	84.9	85.8	84.0
March.....	69.5	81.4	82.0	85.2
April.....	70.1	72.4	75.6	78.8
May.....	58.1	67.2	68.3	82.6
June.....	57.8	65.1	71.2	79.9
July.....	58.4	57.8	63.1	78.5
August.....	49.1	64.0	65.1	77.6
September.....	64.8	53.8	66.3	80.2
October.....	47.1	65.1	73.3	80.8
November.....	67.4	64.2	78.8	80.8
December.....	66.6	81.4	81.4	82.6
1977				
January.....	76.2	83.1	88.1	78.8
February.....	66.0	86.3	87.8	80.5
March.....	74.7	81.1	85.2	80.2
April.....	68.0	79.4	79.4	84.6
May.....	64.8	76.2	75.9	84.0
June.....	71.2	68.0	72.1	83.1
July.....	59.3	63.4	69.8	82.6
August.....	51.7	58.7	74.1	83.7
September.....	60.8	62.5	72.1	82.6
October.....	60.5	73.8	77.9	81.1
November.....	73.8	75.3	82.0	81.1
December.....	72.1	79.7	83.1	80.8
1978				
January.....	69.8	80.2	85.5	80.5
February.....	70.3	80.2	79.9	79.1
March.....	70.1	75.9	77.9	77.6
April.....	62.8	67.4	68.9	78.5
May.....	56.4	63.7	67.7	80.5
June.....	67.2	62.5	59.6	82.6
July.....	54.9	57.0	61.3	80.2p
August.....	51.7	49.7	74.4	77.9p
September.....	57.6	58.7	77.9	
October.....	70.6	75.6	81.4p	
November.....	80.2	85.5	83.4p	
December.....	79.7	86.9p		
1979				
January.....	74.4p	80.8p		
February.....	65.7p			
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. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
1 ALABAMA ¹	1,276.2	1,361.3	1,345.6	6.6	16.1	16.1	68.8	78.8	72.6	358.0	367.5	365.5
2 Birmingham ¹	330.1	358.0	353.5	2.4	9.1	9.1	21.4	22.4	21.1	65.0	70.1	70.0
3 Huntsville ¹	113.4	119.2	118.0	(1)	(1)	(1)	3.1	4.1	3.6	33.7	35.1	35.2
4 Mobile ¹	142.7	149.3	144.4	(1)	(1)	(1)	11.3	11.5	10.7	30.7	30.3	29.7
5 Montgomery ¹	97.8	105.6	104.6	(1)	(1)	(1)	5.6	6.5	6.3	15.3	16.0	15.9
6 Tuscaloosa ¹	47.4	49.3	48.5	.4	1.1	1.1	2.4	2.9	2.6	9.0	8.9	8.9
7 ALASKA ¹	151.7	155.9	153.6	5.2	5.6	6.0	10.5	9.2	7.9	8.2	8.0	7.7
8 ARIZONA ¹	844.3	933.6	921.8	18.9	19.8	20.0	58.7	76.9	75.9	118.9	132.0	132.4
9 Phoenix ¹	520.1	582.3	575.8	.2	.2	.2	36.5	49.7	49.2	88.2	97.8	98.0
10 Tucson ¹	154.8	167.3	166.1	5.7	6.0	6.1	11.1	13.7	13.7	13.3	15.6	15.9
11 ARKANSAS ¹	696.4	734.9	721.5	4.4	4.8	4.7	31.6	36.0	31.9	211.0	214.2	213.1
12 Fayetteville-Springdale ¹	58.9	62.1	61.3	(1)	(1)	(1)	3.0	3.0	2.8	17.8	18.4	18.3
13 Fort Smith ¹	64.1	67.7	67.2	.6	.8	.8	2.6	3.0	2.8	23.7	24.6	24.9
14 Little Rock-North Little Rock ¹	167.3	173.6	172.2	(1)	(1)	(1)	7.7	8.9	8.4	31.9	30.5	30.9
15 Pine Bluff ¹	29.9	31.0	30.4	(1)	(1)	(1)	1.5	1.8	1.5	6.3	6.2	6.2
16 CALIFORNIA ¹	8,853.6	9,536.3	9,402.2	35.8	37.7	37.5	351.7	444.5	418.5	1,767.7	1,928.5	1,920.2
17 Anaheim-Santa Ana-Garden Grove ¹	703.4	786.5	778.9	2.1	2.3	2.3	38.7	49.0	46.1	184.6	205.3	207.5
18 Bakersfield ¹	116.6	123.7	121.8	9.7	10.3	10.3	5.9	7.2	6.9	8.8	9.5	9.5
19 Fresno ¹	165.4	178.7	175.0	.7	.9	.9	9.4	12.0	11.3	20.3	22.8	22.2
20 Los Angeles-Long Beach ¹	3,325.1	3,563.9	3,519.3	11.2	11.4	11.3	95.3	114.2	109.8	841.9	911.7	911.3
21 Modesto ¹	78.0	86.1	83.5	.1	.1	.1	5.0	6.2	5.7	15.8	17.7	16.9
22 Oxnard-Simi Valley-Ventura ¹	132.2	137.9	136.5	2.3	2.4	2.4	5.9	7.1	7.0	20.2	21.3	21.2
23 Riverside-San Bernardino-Ontario ¹	394.7	424.1	421.3	2.5	2.3	2.3	21.5	29.1	28.0	60.9	65.3	65.4
24 Sacramento ¹	360.8	387.4	380.0	.4	.4	.4	16.0	23.4	20.1	23.9	26.1	25.9
25 Salinas-Seaside-Monterey ¹	80.8	84.9	83.2	.6	.6	.6	3.2	3.8	3.5	8.6	9.6	8.9
26 San Diego ¹	570.7	622.2	612.7	.6	.7	.7	32.8	41.4	37.4	83.8	93.4	93.6
27 San Francisco-Oakland ¹	1,436.0	1,532.8	1,509.3	1.9	2.0	2.0	58.8	72.5	66.6	192.6	202.9	201.5
28 San Jose ¹	559.3	606.7	597.4	.1	.1	.1	18.7	25.2	20.7	180.4	206.1	205.0
29 Santa Barbara-Santa Maria-Lompoc ¹	110.2	115.2	113.5	1.1	1.1	1.1	4.2	4.9	4.7	13.2	15.3	14.1
30 Santa Rosa ¹	78.3	84.9	82.6	.4	.4	.4	4.0	5.4	4.5	11.6	13.4	13.3
31 Stockton ¹	107.7	116.0	114.0	.1	.1	.1	4.7	6.2	5.5	17.3	18.9	18.2
32 Vallejo-Fairfield-Napa ¹	92.1	97.1	96.5	.2	.3	.3	3.4	4.8	4.2	9.1	10.0	10.0
33 COLORADO ¹	1,082.2	1,147.0	1,149.7	25.2	28.5	28.1	62.7	71.5	67.3	158.6	172.4	172.1
34 Denver-Boulder ¹	687.4	725.4	731.6	13.7	15.7	15.8	39.5	44.7	42.5	109.1	117.9	117.8
35 CONNECTICUT	1,282.1	1,366.0	1,340.7	(2)	(2)	(2)	35.0	45.7	39.7	405.3	425.7	425.8
36 Bridgeport ¹	153.1	162.0	160.8	(2)	(2)	(2)	3.5	5.0	4.7	61.3	64.8	64.7
37 Hartford ¹	353.0	370.7	364.9	(2)	(2)	(2)	8.5	10.1	8.3	85.0	90.7	91.4
38 New Britain ¹	56.6	59.7	58.9	(2)	(2)	(2)	1.5	1.7	1.3	28.4	29.3	29.6
39 New Haven-West Haven ¹	171.4	182.4	178.6	(2)	(2)	(2)	4.7	6.0	5.0	44.2	44.4	44.9
40 Stamford ¹	98.3	104.2	102.1	(2)	(2)	(2)	4.0	4.6	4.1	29.0	29.6	29.7
41 Waterbury ¹	83.0	86.9	85.6	(2)	(2)	(2)	2.2	2.6	2.2	32.0	33.0	33.2
42 DELAWARE	239.3	255.4	251.6	(1)	(1)	(1)	12.7	14.8	13.8	69.3	69.3	69.1
43 Wilmington ¹	213.1	222.2	219.6	(1)	(1)	(1)	13.4	14.2	13.6	65.2	65.1	64.8
44 DISTRICT OF COLUMBIA	575.9	591.3	588.7	(1)	(1)	(1)	12.8	14.9	14.2	14.5	15.2	15.3
45 Washington SMSA	1,401.0	1,478.0	1,452.4	(1)	(1)	(1)	66.5	80.8	72.5	50.4	53.5	53.6
46 FLORIDA ¹	3,058.3	3,241.7	3,219.4	9.4	9.4	9.4	189.1	215.4	213.6	404.3	442.5	439.9
47 Fort Lauderdale-Hollywood ¹	288.9	298.4	300.8	(1)	(1)	(1)	20.8	23.4	24.3	33.9	36.6	36.8
48 Jacksonville ¹	271.4	283.3	280.1	(1)	(1)	(1)	14.7	15.4	15.3	30.9	32.5	32.1
49 Miami ¹	636.5	663.8	663.8	(1)	(1)	(1)	26.5	32.4	31.8	92.6	97.3	96.6
50 Orlando ¹	238.3	258.1	258.0	(1)	(1)	(1)	13.8	16.4	16.3	29.7	33.4	33.5
51 Pensacola ¹	90.6	93.8	92.9	(1)	(1)	(1)	5.4	6.5	6.3	13.1	13.2	13.2
52 Tampa-St. Petersburg ¹	469.3	488.1	488.6	(1)	(1)	(1)	28.6	33.1	32.6	65.0	68.1	67.5
53 West Palm Beach-Boca Raton ¹	170.6	181.5	182.8	(1)	(1)	(1)	13.3	15.9	16.0	22.8	24.9	25.5
54 GEORGIA ¹	1,946.7	2,027.0	(*)	7.1	7.8	(*)	88.4	99.3	(*)	502.9	514.8	(*)
55 Albany ¹	39.5	43.4	(*)	(1)	(1)	(*)	2.9	4.2	(*)	9.6	10.9	(*)
56 Atlanta ¹	835.4	869.0	(*)	(1)	(1)	(*)	34.6	39.4	(*)	134.5	134.6	(*)
57 Augusta ¹	113.7	122.1	(*)	(1)	(1)	(*)	7.4	7.3	(*)	35.0	36.6	(*)
58 Columbus ¹	78.9	81.4	(*)	(1)	(1)	(*)	4.3	4.9	(*)	20.2	20.3	(*)
59 Macon ¹	94.1	96.2	(*)	(1)	(1)	(*)	4.3	4.5	(*)	15.2	14.6	(*)
60 Savannah ¹	81.8	85.5	(*)	(1)	(1)	(*)	5.8	6.4	(*)	16.7	17.1	(*)

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. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	
65.3	70.9	70.0	258.9	280.8	273.9	56.2	58.3	58.3	185.1	194.6	194.4	277.3	294.3	294.8	1
25.6	28.6	28.5	80.3	88.6	85.5	22.2	22.8	22.8	60.4	63.3	63.4	52.8	53.1	53.1	2
2.5	2.6	2.6	20.9	22.8	22.0	3.2	3.5	3.5	17.1	17.4	17.4	32.9	33.7	33.7	3
10.2	11.0	11.0	34.4	37.9	36.3	6.6	7.2	7.2	25.8	26.7	26.5	23.7	24.7	23.0	4
4.5	4.9	4.9	23.5	25.2	24.6	5.7	6.0	6.0	17.2	18.6	18.5	25.9	28.4	28.4	5
1.7	1.7	1.7	9.5	9.9	9.6	1.6	1.7	1.6	5.9	5.6	5.8	16.9	17.5	17.2	6
15.5	15.5	15.6	27.2	28.8	27.2	8.5	7.9	7.9	25.6	27.0	26.9	51.0	53.9	54.4	7
41.2	46.7	46.6	206.9	229.1	225.2	47.9	51.0	51.1	166.1	178.4	180.6	185.7	199.7	190.0	8
24.5	28.1	28.0	138.1	153.6	151.1	36.9	39.0	39.0	104.0	114.4	115.7	91.7	99.5	94.6	9
7.7	8.3	8.3	35.5	39.0	38.0	6.8	7.3	7.4	32.2	34.4	34.9	42.5	43.0	41.8	10
38.7	42.6	41.9	149.3	164.2	157.7	29.4	30.8	30.3	97.8	105.8	105.6	134.2	136.5	136.3	11
3.1	3.3	3.3	13.8	15.0	14.5	1.9	2.2	2.1	7.5	8.3	8.4	11.8	11.9	11.9	12
3.2	3.4	3.4	13.5	14.9	14.3	2.3	2.4	2.4	10.5	11.0	11.0	7.7	7.6	7.6	13
11.5	12.4	12.4	39.2	42.1	40.8	11.9	12.1	12.0	29.8	32.0	32.2	35.3	35.6	35.5	14
3.6	3.7	3.7	6.1	6.4	6.1	1.2	1.2	1.2	4.4	4.7	4.6	6.8	7.0	7.1	15
487.2	523.0	519.9	2,050.1	2,280.9	2,199.4	531.8	569.4	570.0	1,848.7	2,027.3	2,020.4	1,780.6	1,725.0	1,716.3	16
21.4	25.1	25.0	170.8	195.7	190.5	43.5	49.4	49.7	138.1	157.0	156.0	103.8	102.7	101.8	17
6.7	7.5	7.4	29.5	32.6	31.3	4.2	4.5	4.5	20.1	20.9	20.9	31.7	31.2	31.0	18
9.1	10.3	10.0	43.2	48.9	46.8	9.2	9.7	9.7	31.9	33.8	33.9	41.6	40.3	40.2	19
185.4	197.8	198.6	761.3	843.9	811.9	206.0	215.9	215.5	726.2	787.3	780.6	497.8	481.7	480.3	20
3.5	3.7	3.6	19.0	22.6	21.5	2.7	2.9	2.9	14.6	16.1	16.1	17.3	16.8	16.8	21
5.7	6.1	6.0	30.3	33.6	32.7	5.7	6.0	6.0	24.3	25.8	25.9	37.8	35.6	35.3	22
20.7	22.3	22.0	95.2	104.7	103.3	16.2	17.1	17.1	80.7	86.7	86.9	97.0	96.6	96.3	23
18.4	20.6	20.5	82.6	91.5	88.4	17.7	19.3	19.4	64.4	70.1	70.7	137.4	136.0	134.6	24
4.7	4.9	4.8	20.4	21.9	21.1	3.7	3.9	3.9	16.4	18.1	18.0	23.2	22.1	22.4	25
24.9	26.9	26.7	132.3	150.0	146.3	31.8	34.3	34.5	123.6	135.1	134.5	140.9	140.4	139.0	26
120.6	127.9	126.2	334.1	367.3	356.1	127.0	135.0	135.0	304.5	334.6	331.4	296.5	290.6	290.5	27
18.5	20.4	20.1	111.2	120.8	117.2	22.4	24.1	24.2	123.6	130.7	131.1	84.4	79.3	79.0	28
4.1	4.3	4.3	28.5	30.4	30.0	4.7	4.9	4.9	28.0	29.8	29.7	26.4	24.5	24.7	29
3.7	4.2	4.1	18.8	20.8	20.1	4.8	5.3	5.3	15.1	16.1	16.0	19.9	19.3	18.9	30
7.1	8.0	7.9	25.1	27.7	27.0	4.5	4.9	4.9	21.2	23.0	23.3	27.7	27.2	27.1	31
3.8	4.2	4.1	18.2	20.7	20.2	3.2	3.3	3.5	16.7	17.2	17.4	37.5	36.6	36.8	32
64.8	71.5	71.0	273.4	297.1	288.4	65.1	69.7	69.7	219.2	237.1	239.6	213.2	220.5	213.5	33
45.1	49.8	49.6	173.9	189.0	183.5	46.2	49.5	49.4	141.9	153.3	153.9	117.9	124.1	119.1	34
55.8	58.1	57.3	271.4	294.1	281.9	91.8	96.0	95.3	245.3	261.6	258.4	177.5	184.8	182.5	35
5.5	5.8	5.9	31.9	34.0	33.8	6.4	6.5	6.5	27.7	29.1	29.2	16.8	16.8	16.0	36
14.4	15.1	15.0	74.0	78.7	75.6	53.3	55.7	55.7	66.0	69.9	68.7	51.8	50.6	50.3	37
1.3	1.4	1.4	9.3	10.1	9.7	1.5	1.6	1.5	8.3	9.0	8.9	6.4	6.5	6.5	38
14.2	14.9	14.8	36.1	39.5	38.7	9.7	10.0	9.9	39.6	43.6	42.0	22.9	23.9	23.5	39
3.4	3.5	3.4	22.9	24.5	23.5	6.7	7.0	7.0	22.1	23.4	23.3	10.3	11.6	11.2	40
2.9	3.2	3.0	15.5	16.3	15.8	3.0	3.1	3.0	16.1	16.9	16.9	11.2	11.9	11.5	41
13.0	13.0	12.8	52.1	58.3	57.1	10.7	11.4	11.3	39.1	43.3	43.0	42.4	45.4	44.5	42
12.3	12.2	12.1	43.2	45.8	45.0	10.1	10.1	10.1	34.3	37.7	37.6	34.6	37.0	36.4	43
25.3	25.8	25.6	63.0	66.9	65.4	33.3	33.6	34.0	152.8	160.7	159.6	274.2	274.2	274.6	44
62.9	64.9	64.5	270.8	295.1	283.4	82.0	85.6	85.7	344.1	362.4	360.3	524.3	535.7	532.4	45
190.2	201.5	201.0	809.3	845.5	830.9	211.4	229.1	229.0	668.9	698.4	701.7	575.7	599.9	593.9	46
13.9	14.9	15.1	85.3	86.7	86.2	22.7	24.6	24.6	70.5	69.5	71.1	41.8	42.7	42.7	47
21.5	22.7	22.8	71.3	75.3	73.1	27.1	28.0	27.8	52.3	54.4	54.2	53.6	55.0	54.8	48
60.7	65.3	66.3	165.1	171.0	169.6	46.2	47.5	47.2	156.1	159.2	160.9	89.3	91.1	91.4	49
11.6	13.0	12.9	66.3	71.3	72.5	15.7	17.2	17.1	61.4	65.5	64.7	39.8	41.3	41.0	50
4.6	4.8	4.8	21.4	22.2	21.8	4.0	4.2	4.1	17.1	17.2	17.2	25.0	25.7	25.5	51
27.4	28.5	28.7	133.2	136.2	135.2	33.0	35.4	35.9	105.0	109.3	110.9	77.1	77.5	77.8	52
7.5	7.7	7.8	44.7	47.1	47.0	12.8	14.0	14.2	41.4	41.7	42.3	28.1	30.2	30.0	53
122.5	128.5	(*)	450.3	476.2	(*)	100.2	103.5	(*)	289.1	299.3	(*)	386.2	397.6	(*)	54
1.7	1.9	(*)	9.0	9.7	(*)	1.7	1.7	(*)	4.8	4.8	(*)	9.8	10.2	(*)	55
73.2	78.3	(*)	236.2	248.4	(*)	57.8	59.7	(*)	153.7	157.7	(*)	145.5	150.9	(*)	56
4.0	4.2	(*)	20.4	26.0	(*)	4.1	4.3	(*)	14.1	15.1	(*)	28.7	28.6	(*)	57
3.2	3.4	(*)	16.9	18.0	(*)	5.0	5.3	(*)	10.5	10.5	(*)	18.7	19.1	(*)	58
4.4	4.5	(*)	19.5	20.8	(*)	5.7	5.8	(*)	14.8	15.1	(*)	30.1	31.0	(*)	59
7.7	9.7	(*)	18.6	19.9	(*)	3.8	4.1	(*)	13.6	13.4	(*)	15.6	15.0	(*)	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. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
1 HAWAII ¹	359.5	380.1	371.3	(1)	(1)	(1)	19.0	21.5	21.5	22.3	23.2	23.1
2 Honolulu ¹	298.5	316.0	307.3	(1)	(1)	(1)	16.0	18.1	18.2	16.4	16.9	16.8
3 IDAHO	309.3	337.9	329.7	3.6	3.6	3.6	16.1	19.6	17.1	54.7	58.0	56.8
4 Boise City	74.2	83.3	82.3	(1)	(1)	(1)	5.4	6.3	5.7	8.4	9.4	9.6
5 ILLINOIS ⁴	4,592.7	4,804.2	4,714.5	14.0	28.0	27.6	144.6	171.7	150.6	1,227.7	1,242.4	1,236.4
6 Bloomington—Normal ⁴	47.2	49.1	48.2	(2)	(2)	(2)	1.1	1.2	1.0	6.5	7.0	7.6
7 Champaign—Urbana—Rantoul ⁴	66.8	71.7	68.7	(2)	(2)	(2)	2.3	2.6	2.4	7.5	7.9	7.8
8 Chicago—Gary	3,338.2	3,496.1	(*)	4.3	4.4	(*)	116.8	147.6	(*)	944.5	966.1	(*)
9 Chicago SMSA ^{4, 5}	3,047.7	3,196.6	3,196.9	4.6	4.8	4.7	102.5	129.1	128.5	830.1	846.3	842.9
10 Davenport—Rock Island—Moline	152.1	160.8	157.9	(2)	(2)	(2)	6.1	6.5	5.9	44.6	49.9	49.1
11 Decatur ⁴	53.4	54.9	54.5	(2)	(2)	(2)	2.6	2.9	2.7	19.4	19.4	19.5
12 Peoria ⁴	145.3	151.4	149.6	(2)	(2)	(2)	7.1	8.8	8.0	50.8	51.7	51.7
13 Rockford ⁴	116.4	122.4	121.0	(2)	(2)	(2)	2.8	3.1	2.7	52.9	56.9	57.0
14 Springfield ⁴	82.3	83.1	81.5	(2)	(2)	(2)	3.2	3.6	3.1	9.2	7.8	7.9
15 INDIANA ¹	2,102.8	2,233.7	2,195.3	5.2	9.6	9.3	78.0	104.8	94.4	719.6	753.6	748.8
16 Anderson ¹	52.5	53.7	52.7	(1)	(1)	(1)	.9	1.1	.9	26.6	26.2	26.0
17 Evansville ¹	119.6	125.4	121.2	1.3	2.5	2.5	6.2	8.1	6.9	38.6	38.2	37.5
18 Fort Wayne ¹	168.6	175.7	173.4	(1)	(1)	(1)	6.2	7.2	6.4	59.5	61.6	61.8
19 Gary—Hammond—East Chicago ^{1, 5}	246.1	261.1	255.4	(1)	(1)	(1)	13.7	16.1	14.7	99.3	105.0	104.5
20 Indianapolis ¹	492.1	514.5	506.0	(1)	(1)	(1)	15.9	17.1	14.7	127.3	131.9	131.4
21 Lafayette—West Lafayette ¹	54.4	59.1	57.4	(1)	(1)	(1)	1.6	1.9	1.6	12.1	13.0	12.8
22 Muncie ¹	49.0	50.2	49.0	(1)	(1)	(1)	1.5	1.9	1.6	14.9	14.4	14.4
23 South Bend ¹	108.1	112.9	110.8	(1)	(1)	(1)	4.2	5.0	4.5	33.9	34.1	34.0
24 Terre Haute ¹	60.2	64.5	63.1	.4	1.5	1.5	1.8	2.2	1.9	17.0	17.5	17.3
25 IOWA ¹	1,076.1	1,124.0	1,098.8	1.9	2.2	1.8	47.4	54.5	47.0	246.9	256.3	256.0
26 Cedar Rapids ¹	81.8	84.8	84.0	(1)	(1)	(1)	3.4	4.0	3.6	28.0	29.7	29.7
27 Des Moines ¹	175.8	181.9	179.1	(1)	(1)	(1)	7.5	8.4	7.4	25.8	26.3	26.2
28 Dubuque ¹	43.7	45.3	44.2	(1)	(1)	(1)	1.5	2.1	1.7	16.6	17.5	17.1
29 Sioux City ¹	49.2	51.3	50.3	(1)	(1)	(1)	3.5	3.4	2.9	9.0	9.7	9.6
30 Waterloo—Cedar Falls ¹	65.1	68.4	66.6	(1)	(1)	(1)	2.8	2.7	2.6	22.9	23.0	22.6
31 KANSAS	882.7	934.1	916.5	12.1	12.6	12.3	40.4	46.7	39.3	177.5	195.1	195.1
32 Topeka	82.6	85.5	84.2	.2	.2	.2	3.2	3.6	3.1	11.4	11.5	11.6
33 Wichita	183.8	197.8	196.0	2.1	2.0	1.9	8.2	10.2	9.0	55.3	63.4	63.7
34 KENTUCKY ¹	1,136.8	1,272.0	1,233.6	33.1	61.1	60.6	47.9	69.5	56.7	282.4	294.1	291.3
35 Lexington—Fayette ¹	132.5	149.1	144.7	(1)	(1)	(1)	5.7	7.7	6.5	30.2	31.6	31.5
36 Louisville ¹	373.6	411.5	401.0	(1)	(1)	(1)	15.4	20.7	18.2	105.5	111.8	111.2
37 Owensboro ¹	29.0	31.2	30.8	.6	.8	.8	1.9	2.5	2.3	7.1	7.1	7.0
38 LOUISIANA ¹	1,387.9	1,442.9	1,429.6	70.0	77.5	78.1	109.8	118.4	118.6	203.1	212.3	207.3
39 Alexandria ¹	49.7	51.5	51.1	(1)	(1)	(1)	2.8	3.2	2.8	6.3	6.4	6.3
40 Baton Rouge ¹	182.6	190.2	187.2	.9	1.0	1.0	22.1	25.4	26.2	24.6	25.0	25.0
41 Lafayette ¹	59.6	65.0	63.9	10.7	11.8	11.8	4.6	5.2	5.2	3.5	3.7	3.5
42 Lake Charles ¹	56.4	58.6	58.3	1.7	1.9	1.9	5.0	5.3	5.2	11.9	12.5	12.4
43 Monroe ¹	47.4	50.1	50.0	.4	.4	.4	4.0	4.7	4.6	8.2	8.7	8.7
44 New Orleans ¹	467.2	480.4	476.5	15.2	15.6	15.6	27.1	28.7	28.2	50.4	52.8	52.0
45 Shreveport ¹	136.7	143.7	142.6	5.0	5.5	5.5	8.2	10.1	10.0	28.2	28.5	28.8
46 MAINE ¹	380.3	410.2	398.2	(1)	(1)	(1)	15.9	18.1	15.7	107.1	113.4	113.6
47 Lewiston—Auburn ¹	32.8	34.6	34.1	(1)	(1)	(1)	1.1	1.2	1.1	12.0	12.4	12.2
48 Portland ¹	80.7	89.5	86.1	(1)	(1)	(1)	3.4	3.6	3.2	15.7	17.0	17.1
49 MARYLAND	1,531.5	1,626.2	1,593.5	(1)	(1)	(1)	79.3	94.5	87.4	235.8	245.2	243.2
50 Baltimore	859.3	911.2	895.9	(1)	(1)	(1)	38.3	46.7	42.1	162.7	168.2	166.5
51 MASSACHUSETTS	2,415.4	2,567.3	2,516.3	(1)	(1)	(1)	59.8	75.4	64.5	634.6	661.1	658.5
52 Boston	1,315.4	1,392.3	1,363.0	(1)	(1)	(1)	35.4	41.5	36.2	272.5	286.5	285.1
53 Brockton	54.6	59.1	57.8	-	-	-	1.3	1.9	1.3	11.6	12.3	12.3
54 Fall River	54.3	57.5	56.9	(1)	(1)	(1)	.9	1.4	1.0	20.4	21.4	21.5
55 Lawrence—Haverhill	102.1	107.9	104.2	(1)	(1)	(1)	1.8	2.4	1.9	38.9	39.0	38.4
56 Lowell	66.5	70.6	69.1	(1)	(1)	(1)	1.7	2.3	1.8	22.7	24.0	24.0
57 New Bedford	60.0	63.5	62.0	(1)	(1)	(1)	1.3	1.9	1.7	24.5	26.2	26.1
58 Springfield—Chicopee—Holyoke	217.4	231.2	223.7	(1)	(1)	(1)	4.4	5.4	4.4	65.1	67.2	67.1
59 Worcester	153.5	162.2	158.6	(1)	(1)	(1)	3.4	4.0	3.4	45.7	47.8	47.8
60 MICHIGAN	3,458.5	3,623.2	3,545.4	13.2	13.3	13.3	118.7	147.2	128.0	1,132.4	1,178.0	1,166.4
61 Ann Arbor	129.1	134.0	(*)	(1)	(1)	(*)	2.4	2.8	(*)	42.2	41.1	(*)
62 Battle Creek	64.8	67.9	(*)	(1)	(1)	(*)	1.2	1.7	(*)	23.3	24.2	(*)

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. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	
28.2	28.9	28.9	95.2	98.4	96.7	27.7	29.1	29.1	85.3	90.1	90.1	81.8	88.9	81.9	1
23.2	23.8	23.8	79.7	82.1	80.7	24.2	25.6	25.5	69.9	73.6	73.3	69.1	75.9	69.0	2
18.3	19.8	19.3	78.5	85.9	82.9	17.8	22.2	22.0	54.6	58.5	58.1	65.7	70.3	69.9	3
4.5	4.9	4.9	20.2	21.7	21.3	6.4	9.2	9.1	12.8	13.9	13.9	16.5	17.9	17.8	4
280.6	296.5	290.0	1,073.4	1,126.2	1,086.5	277.8	290.7	289.2	865.7	900.3	896.3	709.0	748.2	737.9	5
3.0	3.1	3.1	11.1	12.0	11.4	7.1	7.3	7.3	7.0	7.1	7.0	11.6	11.3	10.8	6
2.4	2.5	2.5	15.4	16.4	16.2	2.1	2.3	2.4	9.0	9.4	9.2	28.1	30.6	28.1	7
203.6	211.3	(*)	762.2	791.5	(*)	211.8	220.5	(*)	634.2	660.5	(*)	460.9	494.3	(*)	8
191.0	198.8	198.4	700.6	732.3	731.6	199.9	208.3	209.1	590.4	619.5	624.6	428.5	457.5	457.2	9
7.5	7.6	7.5	38.4	40.6	39.5	6.5	6.7	6.6	23.8	23.8	23.7	25.1	25.8	25.7	10
4.3	4.6	4.6	11.1	11.6	11.3	2.5	2.5	2.5	8.2	8.4	8.5	5.5	5.4	5.4	11
7.4	7.7	7.6	34.9	36.3	35.4	7.2	7.5	7.6	25.4	26.4	26.3	12.5	13.0	13.1	12
5.2	5.3	5.2	24.2	24.9	24.2	3.9	4.0	4.1	15.4	16.0	15.8	12.0	12.1	12.1	13
4.8	4.8	4.7	18.5	19.8	19.0	6.6	6.8	6.7	15.4	15.5	15.6	24.6	24.7	24.5	14
103.9	109.8	108.6	457.2	489.7	471.8	93.8	97.6	97.5	300.2	313.6	310.1	344.9	354.9	354.8	15
1.4	1.5	1.5	9.9	10.9	10.4	1.6	1.7	1.7	6.5	6.8	6.6	5.6	5.5	5.6	16
6.4	6.7	6.6	28.7	30.4	29.0	4.1	4.3	4.2	22.4	23.2	22.7	11.9	12.0	11.8	17
10.4	10.7	10.7	40.0	41.9	40.7	9.3	9.8	9.7	25.5	26.7	26.4	17.7	17.8	17.7	18
14.2	14.6	14.5	46.9	50.6	48.6	8.6	8.9	8.9	32.4	34.5	33.4	31.0	31.4	30.8	19
29.2	30.9	30.2	120.0	129.2	124.8	34.0	34.7	34.6	78.2	82.8	81.7	87.5	87.9	88.6	20
1.5	1.6	1.6	10.8	11.9	11.5	2.6	2.8	2.8	7.9	8.6	8.5	18.1	19.3	18.6	21
2.0	2.2	2.2	11.3	11.7	11.0	1.5	1.5	1.5	6.9	7.3	7.3	10.9	11.2	11.0	22
5.1	5.3	5.2	25.6	27.5	26.8	4.9	5.1	5.1	21.5	23.0	22.3	12.9	12.9	12.9	23
3.7	3.9	3.9	15.2	16.4	16.1	1.9	2.0	2.0	8.6	8.8	8.8	11.6	12.2	11.6	24
54.2	56.3	55.3	273.6	290.4	279.8	53.5	55.8	55.8	189.9	197.9	196.3	208.8	210.5	206.9	25
3.9	3.9	3.9	17.5	18.9	18.5	4.1	4.3	4.3	14.0	14.7	14.6	10.8	9.5	9.4	26
11.1	11.3	11.2	47.2	49.1	47.6	19.1	19.8	19.9	36.2	37.6	37.5	29.0	29.5	29.3	27
1.6	1.6	1.6	8.8	9.5	9.3	1.3	1.3	1.3	9.7	9.4	9.2	4.2	4.0	4.0	28
3.7	4.1	4.0	13.2	13.7	13.5	2.7	2.7	2.7	10.5	11.0	10.9	6.6	6.7	6.7	29
2.5	2.5	2.6	13.7	14.9	13.8	1.9	2.0	2.0	10.0	11.3	11.4	11.2	12.0	11.8	30
61.0	65.2	64.6	215.2	227.4	220.9	43.6	45.6	45.6	150.7	158.0	158.0	182.2	183.5	180.7	31
7.5	7.4	7.3	18.4	19.4	18.8	5.7	5.7	5.7	15.4	16.3	16.4	21.0	21.4	21.1	32
10.0	10.1	10.2	41.5	44.1	43.4	8.9	9.1	9.0	35.1	36.0	36.0	22.9	22.9	22.8	33
63.6	69.8	69.6	250.4	283.8	265.6	46.8	49.0	48.8	187.5	204.2	204.1	225.1	240.5	236.9	34
6.4	7.0	6.9	30.7	35.0	31.6	6.6	7.0	6.9	23.5	25.3	25.9	29.4	35.5	35.4	35
23.5	24.7	24.5	84.5	99.3	93.8	20.8	22.1	22.0	69.3	74.4	73.3	54.5	58.5	58.1	36
2.1	2.2	2.2	7.2	7.7	7.7	1.1	1.1	1.1	4.8	5.4	5.4	4.2	4.4	4.3	37
106.2	110.0	109.7	331.4	347.6	340.7	68.0	70.5	70.7	234.5	244.1	244.1	264.9	262.5	260.4	38
2.4	2.5	2.5	10.9	11.6	11.6	3.0	3.2	3.2	9.1	9.4	9.6	15.2	15.2	15.1	39
9.0	9.5	9.5	39.7	40.3	39.6	10.2	10.8	10.8	28.0	27.5	27.6	48.1	50.7	47.5	40
4.3	4.6	4.6	15.8	17.0	16.8	1.9	2.0	2.0	10.3	11.5	11.1	8.5	9.2	8.9	41
2.9	3.1	3.2	12.7	13.1	13.1	2.4	2.6	2.5	9.5	9.5	9.4	10.3	10.6	10.6	42
2.3	2.3	2.3	12.1	13.4	13.2	3.2	3.3	3.3	7.2	7.7	7.8	10.0	9.6	9.7	43
46.9	48.2	48.2	117.9	122.0	119.1	28.0	28.5	28.7	101.3	105.2	105.2	80.4	79.4	79.5	44
9.1	10.1	10.1	33.9	35.3	34.5	6.4	6.5	6.6	22.7	24.2	23.7	23.2	23.5	23.4	45
17.3	18.2	17.6	81.0	91.4	87.0	15.5	15.9	15.8	65.0	69.0	68.1	78.5	84.2	80.4	46
1.0	1.1	1.1	7.4	7.9	7.7	1.4	1.5	1.5	6.3	6.9	6.9	3.6	3.6	3.6	47
5.0	5.3	5.2	21.8	25.0	23.5	6.7	6.8	6.8	16.0	18.4	17.7	12.1	13.4	12.6	48
80.6	85.1	82.8	365.5	396.0	381.5	84.7	87.1	87.5	308.1	325.8	326.6	377.6	392.5	384.5	49
54.8	58.7	57.9	193.5	206.3	200.7	51.2	52.7	53.1	164.3	173.2	172.3	194.5	205.4	203.3	50
115.3	117.3	115.4	537.4	590.8	566.4	139.0	143.7	144.6	537.9	579.7	570.0	391.4	399.3	396.9	51
67.4	68.7	66.7	296.3	318.5	303.7	96.4	98.9	99.8	345.7	375.6	370.7	201.7	202.6	200.8	52
3.9	3.9	3.9	14.9	16.2	15.9	2.1	2.2	2.2	6.4	9.0	8.8	12.4	13.6	13.4	53
1.9	2.0	2.0	12.2	13.2	13.0	2.7	2.7	2.8	8.4	8.8	8.6	7.8	8.0	8.0	54
4.1	4.3	4.2	21.5	24.2	23.4	3.6	3.7	3.7	14.2	15.0	13.6	18.0	19.3	19.0	55
3.0	3.1	3.0	14.6	15.6	15.0	2.1	2.1	2.1	10.1	10.4	10.1	12.3	13.1	13.1	56
2.6	2.6	2.6	11.5	12.1	11.4	1.8	1.9	1.8	8.3	8.7	8.5	10.0	10.1	9.9	57
9.3	9.8	9.6	44.8	45.8	44.6	11.2	11.5	11.5	40.6	42.7	41.4	42.0	48.8	45.1	58
6.9	7.1	7.0	33.6	35.5	34.3	8.3	8.5	8.5	28.5	31.0	29.8	27.1	28.3	27.8	59
147.1	154.0	151.9	704.1	733.9	713.0	140.8	146.2	146.0	578.2	612.4	605.1	624.0	638.0	621.8	60
2.2	2.3	(*)	18.2	19.4	(*)	3.6	3.9	(*)	18.3	18.1	(*)	42.2	46.4	(*)	61
2.1	2.3	(*)	10.8	11.5	(*)	3.5	3.6	(*)	11.4	11.8	(*)	12.5	12.8	(*)	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
MICHIGAN—Continued												
1 Bay City	35.6	38.4	(*)	(1)	(1)	(*)	1.4	1.9	(*)	11.1	11.8	(*)
2 Detroit	1,708.2	1,786.8	1,749.3	1.1	1.2	1.1	58.7	72.1	65.4	579.1	595.9	587.6
3 Flint	197.2	209.5	(*)	(1)	(1)	(*)	5.8	7.0	(*)	87.6	93.1	(*)
4 Grand Rapids	239.5	252.9	(*)	(1)	(1)	(*)	8.7	10.8	(*)	85.2	88.7	(*)
5 Jackson	50.9	54.4	(*)	(1)	(1)	(*)	1.2	1.3	(*)	15.9	17.7	(*)
6 Kalamazoo—Portage	102.2	110.0	(*)	(1)	(1)	(*)	3.4	4.2	(*)	35.5	37.2	(*)
7 Lansing—East Lansing	181.8	193.9	(*)	(1)	(1)	(*)	4.0	4.9	(*)	42.6	46.1	(*)
8 Muskegon-Norton Shores-Musk. Hgts	59.0	62.1	(*)	(1)	(1)	(*)	2.1	2.9	(*)	22.4	23.2	(*)
9 Saginaw	89.5	96.0	(*)	(1)	(1)	(*)	2.2	3.3	(*)	37.3	39.4	(*)
10 MINNESOTA	1,603.8	1,725.3	1,680.0	14.1	16.6	16.0	58.9	78.4	65.8	341.9	365.8	363.3
11 Duluth—Superior	57.3	61.1	(*)	(1)	(1)	(*)	1.9	2.4	(*)	8.0	8.2	(*)
12 Minneapolis—St. Paul	980.8	1,048.2	1,024.0	(1)	(1)	(1)	33.4	44.2	37.4	224.3	236.1	236.1
13 MISSISSIPPI	775.4	835.6	823.7	8.1	8.9	8.8	37.1	47.4	46.1	232.3	236.7	234.7
14 Jackson	131.3	144.2	141.7	1.1	1.1	1.1	6.4	8.6	8.5	18.4	19.1	18.7
15 MISSOURI	1,872.1	1,936.8	1,903.2	6.2	8.1	7.6	69.5	79.0	68.2	445.6	458.1	458.3
16 Kansas City	604.1	624.4	612.2	.4	.5	.4	24.6	27.5	22.7	121.7	126.5	125.6
17 St. Joseph	36.3	36.1	35.7	(2)	(2)	(2)	1.6	1.7	1.5	9.4	9.1	9.1
18 St. Louis	941.2	985.1	960.9	1.3	2.5	2.3	34.1	43.5	35.2	247.2	255.5	256.8
19 Springfield	78.8	82.9	80.9	(2)	(2)	(2)	3.2	3.2	2.9	18.2	16.0	17.9
20 MONTANA	260.9	280.2	272.5	6.1	8.2	7.9	12.2	15.4	13.5	25.2	26.7	26.6
21 Billings	43.1	45.5	44.3	(1)	(1)	(1)	1.9	2.2	1.8	4.1	4.1	4.1
22 Great Falls	28.5	30.3	29.4	(1)	(1)	(1)	1.4	1.7	1.5	1.7	1.8	1.8
23 NEBRASKA	584.8	605.4	591.1	1.4	1.5	1.4	27.0	29.3	25.8	90.5	94.7	93.9
24 Lincoln	94.0	100.7	96.3				3.8	4.3	4.1	13.0	14.2	14.1
25 Omaha	246.5	255.0	249.5	(2)	(2)	(2)	10.4	10.8	9.7	34.5	35.6	35.2
26 NEVADA	317.8	366.5	361.9	4.3	3.8	3.9	22.1	27.4	26.5	16.2	18.8	18.9
27 Las Vegas	174.7	196.7	195.2	.2	.3	.3	12.3	14.4	14.3	5.8	6.8	6.8
28 Reno	91.7	109.0	106.9	.5	.5	.5	7.2	8.6	8.0	7.4	8.3	8.2
29 NEW HAMPSHIRE	340.9	372.1	363.1	.3	.4	.3	14.8	20.1	17.2	105.9	112.1	111.7
30 Manchester	67.7	72.3	70.8	(2)	(2)	(2)	2.6	3.5	2.9	18.9	19.1	18.9
31 Nashua	50.4	55.8	54.6	(2)	(2)	(2)	1.9	2.6	2.4	23.2	25.8	25.7
32 NEW JERSEY	2,846.4	2,972.3	2,906.1	2.7	2.8	2.7	92.8	112.6	98.7	767.8	785.8	779.7
33 Atlantic City	62.4	69.5	68.8	-	-	-	2.9	3.8	3.6	7.5	7.6	7.7
34 Camden	304.4	324.9	316.7	.1	.1	.1	9.8	11.9	9.7	67.6	70.7	70.3
35 Hackensack	368.4	391.5	383.6	(1)	(1)	(1)	11.7	13.7	12.7	107.5	114.4	115.1
36 Jersey City	227.9	229.6	225.7	-	-	-	4.1	4.2	4.0	71.0	69.2	67.6
37 Long Branch—Asbury Park	143.0	148.3	144.7	(1)	(1)	(1)	5.5	6.5	5.6	23.1	22.8	22.6
38 New Bruns.—Perth Amboy-Sayreville	264.5	277.2	261.3	(1)	(1)	(1)	7.4	9.0	8.1	87.4	89.4	88.4
39 Newark	898.9	939.2	917.8	1.1	1.0	1.1	29.3	36.4	32.0	244.1	251.1	249.9
40 Paterson—Clifton—Passaic	183.0	195.9	193.6	(1)	(1)	(1)	4.2	5.8	4.8	64.8	68.2	68.7
41 Trenton	157.4	164.0	160.1	(1)	(1)	(1)	2.3	2.9	2.3	38.4	38.1	37.9
42 Vineland—Millville—Bridgeton	55.5	57.9	57.0	(1)	(1)	(1)	1.5	2.0	1.6	19.9	19.1	18.7
43 NEW MEXICO	421.5	457.3	449.2	23.9	25.3	25.3	29.3	34.0	32.3	32.9	34.6	34.5
44 Albuquerque	167.7	181.8	179.1	(1)	(1)	(1)	12.0	14.3	13.7	16.7	17.9	17.9
45 NEW YORK	6,793.7	7,143.4	6,959.8	5.7	5.9	5.6	162.4	199.8	174.4	1,439.8	1,498.1	1,473.0
46 Albany-Schenectady-Troy	322.0	331.7	325.3	(1)	(1)	(1)	8.6	10.2	9.0	63.2	61.4	60.9
47 Binghamton	111.8	119.2	117.0	(1)	(1)	(1)	3.0	4.3	3.9	41.2	42.8	42.4
48 Buffalo	490.5	517.9	505.4	(1)	(1)	(1)	14.2	18.3	15.9	142.2	146.5	144.7
49 Elmira	36.1	37.9	37.3	(1)	(1)	(1)	1.1	1.3	1.1	11.5	11.8	12.0
50 Monroe County	320.1	338.3	330.7	(1)	(1)	(1)	8.0	9.5	8.5	128.8	134.2	133.4
51 Nassau-Suffolk	825.2	882.5	857.8	(1)	(1)	(1)	27.6	34.0	30.0	152.5	160.5	160.1
52 New York—Northeastern New Jersey	6,316.4	6,540.1	(*)	3.6	3.5	(*)	164.0	186.7	(*)	1,337.5	1,375.0	(*)
53 New York and Nassau-Suffolk	4,380.9	4,579.7	4,481.1	1.6	1.7	1.7	99.2	118.5	107.8	753.4	782.7	767.9
54 New York SMSA	3,555.7	3,697.2	3,623.2	1.4	1.5	1.5	71.5	84.5	77.8	600.9	622.2	607.8
55 New York City	3,151.9	3,268.9	3,207.5	1.3	1.3	1.3	59.2	68.2	64.6	515.7	532.3	520.6
56 Poughkeepsie	88.2	94.1	91.9	(1)	(1)	(1)	2.6	3.0	2.3	29.4	31.2	31.2
57 Rochester	392.4	414.4	404.1	(1)	(1)	(1)	9.4	11.2	10.0	148.6	155.5	154.0
58 Rockland County	74.7	78.2	77.1	(1)	(1)	(1)	1.8	2.3	1.7	15.3	15.6	15.6
59 Syracuse	247.9	262.2	254.9	(1)	(1)	(1)	8.8	10.5	9.2	59.4	61.2	61.0
60 Utica-Rome	110.6	115.5	113.7	(1)	(1)	(1)	2.1	2.8	2.5	30.6	32.1	31.8
61 Westchester County	317.2	337.8	326.6	(1)	(1)	(1)	9.9	13.2	10.9	68.7	73.0	70.2

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. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	
2.1	2.0	(*)	8.8	9.6	(*)	1.1	1.2	(*)	6.1	6.5	(*)	5.0	5.4	(*)	1
80.9	84.4	83.0	342.2	356.1	343.7	81.3	84.2	83.6	311.7	330.6	327.9	253.3	262.3	256.9	2
5.9	6.0	(*)	38.6	41.1	(*)	5.6	5.8	(*)	26.1	28.6	(*)	27.6	27.9	(*)	3
9.6	9.9	(*)	54.4	59.3	(*)	8.6	8.8	(*)	42.8	44.5	(*)	30.2	30.9	(*)	4
4.4	4.5	(*)	9.9	10.9	(*)	1.5	1.6	(*)	9.1	9.9	(*)	8.9	8.5	(*)	5
3.4	3.4	(*)	19.3	20.9	(*)	3.6	3.8	(*)	17.6	18.2	(*)	19.4	22.3	(*)	6
4.4	4.6	(*)	33.3	36.2	(*)	8.5	9.2	(*)	24.1	25.3	(*)	64.9	67.6	(*)	7
3.0	3.1	(*)	10.8	11.9	(*)	1.7	1.8	(*)	8.5	8.5	(*)	10.5	10.7	(*)	8
4.0	4.2	(*)	17.9	18.9	(*)	3.9	4.0	(*)	12.0	12.8	(*)	12.2	13.4	(*)	9
92.4	99.0	97.2	405.7	442.7	424.7	82.9	88.5	88.4	315.3	338.9	332.3	292.5	295.5	292.4	10
5.7	7.1	(*)	16.2	17.1	(*)	2.1	2.1	(*)	11.6	12.5	(*)	11.7	11.6	(*)	11
59.5	63.3	62.7	246.8	266.4	256.6	61.6	65.9	65.7	202.4	217.7	212.5	152.8	154.6	152.9	12
36.5	38.7	38.2	151.2	167.8	160.3	30.1	31.9	32.0	109.3	116.9	115.9	170.8	187.3	187.7	13
8.5	8.9	8.7	31.5	36.2	35.0	10.2	11.0	11.0	25.1	27.4	26.8	30.1	31.9	31.9	14
131.7	137.4	136.5	446.5	474.8	456.5	100.2	102.8	102.0	336.9	347.9	344.8	335.5	328.7	329.3	15
52.2	54.2	53.5	157.0	160.5	155.4	40.6	42.0	42.0	115.1	121.0	120.3	92.5	92.2	92.3	16
2.2	2.2	2.2	9.0	9.3	9.1	1.8	1.8	1.8	6.2	6.1	6.1	6.0	5.9	5.9	17
65.7	69.7	69.1	218.7	227.0	217.8	51.9	53.4	52.5	185.3	193.4	190.1	137.1	140.1	137.1	18
5.9	6.4	6.2	21.6	23.7	22.4	3.2	3.3	3.3	15.7	16.3	16.2	11.0	12.0	12.0	19
20.3	22.1	21.8	65.6	73.5	70.4	11.5	12.5	12.1	49.0	52.6	51.4	71.0	69.2	68.7	20
3.9	4.3	4.2	14.5	16.0	15.5	2.1	2.1	2.2	8.6	9.3	9.0	8.0	7.5	7.5	21
1.8	1.9	1.9	9.3	10.3	9.7	1.9	2.0	2.0	6.2	6.5	6.5	6.2	6.1	6.0	22
41.6	45.1	44.0	153.7	158.4	153.5	38.2	39.5	39.6	104.1	108.9	107.3	128.3	128.0	125.6	23
6.4	6.9	6.4	21.1	22.7	21.6	6.8	6.9	6.9	15.5	16.9	16.8	27.4	28.8	26.4	24
21.7	23.2	22.9	68.8	68.8	66.3	22.2	23.1	23.2	51.8	54.1	52.9	41.1	39.4	39.3	25
19.2	22.8	22.7	63.4	74.8	72.5	13.5	15.3	15.2	129.5	150.3	150.3	49.6	53.3	51.9	26
10.9	12.9	12.9	35.3	42.5	41.3	7.2	8.3	8.2	80.8	87.4	87.9	22.2	24.1	23.5	27
6.0	7.4	7.5	20.2	22.7	22.0	5.0	5.6	5.6	31.6	41.0	40.6	13.8	14.9	14.5	28
12.4	13.6	13.5	74.4	84.9	81.3	16.5	18.0	17.8	61.2	65.2	64.9	55.4	57.8	56.4	29
4.2	4.6	4.7	17.0	19.0	17.8	4.9	5.2	5.3	12.2	12.8	13.0	7.9	8.1	8.2	30
1.5	1.7	1.6	9.5	10.8	10.2	1.6	1.7	1.7	7.0	7.6	7.4	5.7	5.6	5.6	31
185.9	190.9	189.3	632.3	679.6	645.2	145.6	151.3	151.4	517.6	539.3	534.0	501.7	510.0	505.1	32
3.4	3.5	3.5	16.3	17.9	17.1	4.1	4.4	4.2	14.3	17.6	17.8	13.9	14.7	14.9	33
14.4	14.9	14.7	81.1	87.1	82.3	14.9	15.9	15.7	58.2	61.7	61.3	58.3	62.6	62.6	34
18.1	18.3	17.8	110.1	117.7	111.0	14.0	14.5	14.5	64.7	69.6	70.1	42.3	43.3	42.4	35
28.0	28.3	27.5	45.1	47.1	47.0	8.8	8.9	8.8	28.2	28.3	27.4	42.7	43.6	43.4	36
6.1	6.2	6.2	35.7	39.3	37.5	6.8	7.0	7.1	32.8	33.6	33.3	33.0	32.9	32.4	37
17.4	18.7	18.6	59.4	66.5	56.6	8.2	8.5	8.7	35.1	37.0	34.5	49.6	48.1	46.4	38
68.5	69.6	69.2	173.1	183.4	174.5	61.1	64.1	63.4	173.2	182.8	181.8	148.5	150.8	145.9	39
6.6	6.7	6.7	42.8	45.6	43.8	9.2	9.4	9.4	27.7	29.8	30.0	27.7	30.4	30.2	40
5.4	5.4	5.4	23.1	26.2	24.5	6.4	6.7	6.7	37.0	37.7	36.4	44.8	47.0	46.9	41
2.8	2.9	2.9	8.4	9.6	9.4	3.2	3.2	3.2	7.9	8.3	8.3	11.8	12.8	12.9	42
25.6	27.9	27.5	97.8	108.6	104.5	18.6	20.0	20.0	81.6	88.0	88.0	111.8	118.9	117.1	43
9.5	10.9	10.7	43.6	48.4	46.7	9.5	10.1	10.2	38.1	39.6	39.5	38.3	40.6	40.4	44
420.0	434.6	427.1	1,407.3	1,518.1	1,432.7	575.0	589.1	586.1	1,506.0	1,592.7	1,570.1	1,277.6	1,305.0	1,290.6	45
15.1	15.5	15.2	64.3	68.9	66.7	14.6	14.9	14.9	62.0	65.1	64.7	94.1	95.5	93.9	46
4.5	4.7	4.7	20.5	22.9	22.1	3.6	3.6	3.6	16.2	17.6	17.4	22.8	23.3	22.8	47
27.0	28.8	28.2	110.2	118.7	114.6	21.0	21.6	21.5	90.9	93.9	91.9	85.1	90.0	88.6	48
1.4	1.4	1.4	8.1	8.5	8.2	1.0	1.0	1.0	6.3	6.8	6.6	6.7	7.0	7.0	49
9.9	10.1	10.0	60.4	65.6	62.3	13.9	14.6	14.6	60.2	63.8	62.3	38.9	40.6	39.6	50
36.4	37.6	37.0	216.5	237.1	224.8	46.1	47.7	47.5	173.1	185.0	180.5	173.0	180.6	177.9	51
449.6	453.9	(*)	1,360.5	1,435.0	(*)	579.1	589.5	(*)	1,364.8	1,418.2	(*)	1,057.3	1,078.3	(*)	52
311.3	319.4	316.0	921.5	986.0	937.3	476.6	486.9	484.5	1,066.9	1,119.1	1,106.0	750.4	765.3	759.8	53
275.0	281.8	278.9	705.0	748.9	712.5	430.5	439.2	437.0	893.9	934.4	925.7	577.4	584.7	582.0	54
253.6	260.0	257.2	610.5	646.1	613.9	411.6	419.7	417.6	798.9	834.7	827.9	501.0	506.6	504.3	55
2.9	3.0	3.0	14.8	16.0	15.5	2.5	2.5	2.5	15.2	16.6	16.0	20.8	22.0	21.4	56
12.8	13.1	12.8	76.2	82.6	78.3	15.4	16.3	16.2	70.6	74.6	72.8	59.3	61.2	60.0	57
3.5	3.4	3.4	16.1	17.4	16.8	2.3	2.4	2.4	15.6	16.4	16.3	20.3	20.8	21.0	58
14.1	14.6	14.3	55.2	59.2	57.2	14.6	15.2	15.2	48.4	52.4	49.7	47.4	49.0	48.3	59
3.9	4.0	4.0	20.6	22.2	21.7	5.2	5.4	5.4	18.6	19.3	18.8	29.5	29.6	29.5	60
17.2	17.8	17.7	75.4	82.3	78.7	16.2	16.6	16.5	77.1	81.1	79.4	52.8	53.7	53.2	61

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
NORTH CAROLINA	2,211.2	2,318.9	2,278.8	4.5	4.9	4.8	101.7	113.6	106.2	787.6	813.4	809.3
Asheville	65.0	68.6	66.7	(1)	(1)	(1)	3.2	3.5	3.2	20.8	21.8	21.6
Charlotte—Gastonia	300.1	314.8	311.0	(1)	(1)	(1)	14.2	16.1	15.3	85.9	87.9	87.4
Greensboro—Winston-Salem—High Pt	365.1	380.6	374.9	(1)	(1)	(1)	15.0	16.3	15.6	144.4	146.5	146.8
Raleigh—Durham	238.8	254.0	249.9	(1)	(1)	(1)	11.1	12.8	12.3	37.8	40.1	40.1
NORTH DAKOTA	217.2	233.2	227.5	3.2	4.1	4.1	12.6	16.6	15.0	15.2	16.1	15.9
Fargo—Moorhead	58.9	62.5	61.0	(2)	(2)	(2)	3.6	4.4	3.9	5.1	5.0	4.9
OHIO	4,192.6	4,495.0	4,388.1	18.0	32.5	31.4	139.1	180.0	152.5	1,350.9	1,405.8	1,399.8
Akron	257.4	270.4	265.2	.3	.3	.3	6.4	8.8	7.1	85.6	85.7	85.4
Canton	147.5	158.4	155.0	1.0	1.1	1.1	4.9	6.8	5.7	55.9	58.0	57.8
Cincinnati	562.8	610.5	597.0	.2	.4	.4	21.1	26.9	23.3	162.8	174.6	173.6
Cleveland	874.9	929.1	909.5	1.5	1.5	1.5	26.3	32.6	28.3	272.2	284.3	283.6
Columbus	473.9	510.4	495.2	.8	.9	.9	15.7	20.8	17.5	99.6	102.8	102.3
Dayton	345.0	369.0	359.9	.4	.5	.5	10.9	14.2	11.9	111.2	115.1	114.2
Toledo	290.2	310.9	301.7	.5	.6	.6	9.3	12.2	10.2	88.9	92.6	92.3
Youngstown—Warren	202.7	216.1	211.3	.4	.5	.5	6.4	8.5	7.2	79.7	80.9	80.7
OKLAHOMA	988.1	1,051.8	1,032.2	51.4	56.1	56.1	48.9	55.6	48.0	167.1	175.8	174.9
Oklahoma City	342.9	373.8	370.7	11.6	13.2	13.5	16.2	20.2	18.4	45.5	49.0	49.6
Tulsa	259.7	274.7	271.6	16.7	17.8	17.4	13.2	14.4	13.5	54.6	57.7	57.5
OREGON	960.7	1,026.5	1,008.2	1.8	1.9	1.8	41.6	51.6	46.9	206.4	217.9	214.5
Eugene—Springfield	97.7	103.5	101.3	(1)	(1)	(1)	4.8	5.8	5.2	20.0	20.6	20.0
Jackson County	-	-	-	-	-	-	-	-	-	7.8	7.6	7.5
Portland	504.8	539.9	530.5	(1)	(1)	(1)	23.1	28.1	25.1	102.5	108.5	108.1
Salem	81.3	85.8	85.2	(1)	(1)	(1)	4.3	4.5	4.4	11.8	12.9	12.4
PENNSYLVANIA	4,509.8	4,734.5	4,636.3	26.3	52.9	52.6	159.4	192.5	166.1	1,338.0	1,371.2	1,365.7
Allentown—Bethlehem—Easton	251.8	262.0	258.2	(1)	(1)	(1)	8.4	9.0	7.8	107.8	110.5	109.7
Altoona	51.2	51.9	51.5	(1)	(1)	(1)	2.0	2.0	2.0	13.1	13.2	13.1
Delaware Valley	1,515.0	1,574.9	1,539.1	(1)	(1)	(1)	48.2	56.5	49.9	376.2	382.9	378.0
Erie	110.9	116.4	115.1	(1)	(1)	(1)	2.9	4.5	3.9	43.1	44.5	44.4
Harrisburg	208.5	216.6	213.5	(1)	(1)	(1)	8.1	9.0	7.8	40.2	42.7	42.5
Johnstown	79.4	88.1	86.2	2.7	9.1	9.1	2.4	2.7	2.3	20.9	20.2	20.0
Lancaster	141.5	150.8	148.2	(1)	(1)	(1)	6.9	8.4	7.6	57.3	59.9	59.6
Northeast Pennsylvania	229.8	241.2	236.0	1.1	1.2	1.1	11.2	12.5	11.3	70.3	71.3	71.3
Philadelphia SMSA	1,819.3	1,898.6	1,850.9	(1)	(1)	(1)	58.1	68.3	59.6	443.7	453.9	448.2
Philadelphia City	782.2	804.3	788.2	(1)	(1)	(1)	14.9	17.8	16.0	150.6	151.0	148.9
Pittsburgh	893.0	944.7	932.8	4.3	11.7	11.7	37.9	48.1	40.8	245.7	252.8	252.7
Reading	131.0	139.6	137.8	(1)	(1)	(1)	4.4	5.3	4.7	52.4	54.5	54.4
Scranton	82.0	87.4	85.8	(1)	(1)	(1)	2.0	2.0	1.6	26.8	28.5	28.4
Wilkes-Barre—Hazleton	121.8	125.1	122.9	1.0	1.1	1.1	8.2	9.1	8.6	38.9	38.2	38.1
Williamsport	46.8	50.3	49.4	(1)	(1)	(1)	1.4	1.9	1.7	17.6	18.4	18.1
York	144.8	152.6	151.3	(1)	(1)	(1)	5.8	7.2	6.5	61.5	64.4	65.6
RHODE ISLAND	376.8	408.3	389.2	(1)	(1)	(1)	10.4	15.3	12.2	129.2	137.8	133.1
Providence—Warwick—Pawtucket	389.7	420.3	400.6	(1)	(1)	(1)	10.6	15.5	12.3	145.5	154.3	149.2
SOUTH CAROLINA	1,095.2	1,153.2	1,139.2	1.8	1.9	1.9	64.3	65.6	63.3	385.2	394.7	392.9
Charleston—North Charleston	134.6	142.4	142.4	(1)	(1)	(1)	10.8	11.2	11.1	18.5	19.4	19.4
Columbia	164.5	174.8	172.4	(1)	(1)	(1)	8.2	8.3	8.2	24.9	26.0	26.4
Greenville—Spartanburg	246.8	259.0	256.6	(1)	(1)	(1)	13.6	15.0	15.1	102.8	105.8	105.5
SOUTH DAKOTA	221.7	233.5	230.3	2.5	2.6	2.7	10.1	11.7	10.3	23.2	25.2	24.9
Rapid City	26.5	27.9	27.6	(2)	(2)	(2)	2.3	2.5	2.4	2.5	2.7	2.7
Sioux Falls	50.5	53.3	52.2	(2)	(2)	(2)	2.7	3.2	2.9	7.1	7.3	7.2
TENNESSEE	1,648.3	1,747.9	1,716.6	9.4	10.2	9.4	67.0	91.1	82.6	512.3	526.0	521.3
Chattanooga	165.4	169.0	167.9	1.3	1.3	1.3	6.2	6.9	6.7	55.7	55.6	55.4
Knoxville	186.3	199.2	198.2	1.6	1.6	1.6	10.1	12.6	12.3	52.2	54.1	54.0
Memphis	340.1	354.6	349.6	.1	.1	.1	12.4	13.3	12.8	61.1	63.2	63.4
Nashville—Davidson	336.6	358.5	355.0	(1)	(1)	(1)	15.3	21.9	20.5	80.9	82.1	81.8
TEXAS	5,039.9	5,407.7	5,354.0	172.5	185.5	188.6	345.5	387.8	375.5	923.9	980.0	978.9
Amarillo	68.9	72.7	71.5	(1)	(1)	(1)	4.1	5.0	4.8	8.2	9.0	9.0
Austin	206.0	221.5	219.6	(1)	(1)	(1)	11.6	13.0	13.2	23.7	27.2	26.9
Beaumont—Port Arthur—Orange	143.7	147.2	143.0	(1)	(1)	(1)	14.7	15.8	15.4	41.1	41.6	38.6
Corpus Christi	107.7	112.7	111.9	4.9	5.0	5.0	9.3	12.3	12.1	13.8	13.8	13.8
Dallas-Fort Worth	1,224.6	1,325.6	1,310.3	17.3	20.5	20.4	57.0	70.3	67.1	275.6	294.0	295.0
El Paso	144.4	153.4	152.8	(1)	(1)	(1)	8.5	8.9	8.7	29.4	31.1	31.1
Galveston—Texas City	63.3	67.9	67.6	(1)	(1)	(1)	4.4	4.8	4.6	11.6	12.0	12.1

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. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	
104.8	109.5	108.1	430.1	465.3	444.9	85.0	85.8	85.6	301.5	316.4	313.6	396.0	410.0	406.3	1
3.4	3.4	3.4	13.4	14.6	13.7	2.2	2.3	2.3	11.2	11.5	11.3	10.8	11.5	11.2	2
27.8	29.0	28.8	74.1	78.9	77.6	19.4	19.8	19.8	43.1	45.7	45.3	35.6	37.4	36.8	3
19.6	21.0	20.4	73.5	79.5	76.1	16.8	17.3	17.2	51.4	54.3	53.4	44.4	45.7	45.4	4
11.4	12.5	12.6	47.0	51.3	48.6	14.1	14.6	14.4	49.0	52.2	52.1	68.4	70.5	69.8	5
13.8	15.1	14.9	60.8	66.5	63.4	10.1	10.8	10.8	43.1	44.6	44.3	58.4	59.4	59.1	6
3.6	3.9	3.8	18.6	20.5	19.8	3.4	3.7	3.7	12.3	12.8	12.7	12.3	12.2	12.2	7
214.9	233.3	228.9	909.7	1,001.5	952.0	184.9	194.8	193.9	723.8	779.9	772.2	651.3	667.3	657.4	8
13.9	14.5	14.4	55.7	61.8	58.7	9.0	9.2	9.3	44.3	46.0	46.1	42.3	43.8	43.9	9
7.0	7.4	7.2	31.5	35.0	33.3	5.6	5.6	5.6	25.6	27.4	27.2	16.1	17.1	17.0	10
31.2	34.8	34.1	131.7	143.9	137.9	29.6	31.0	30.7	104.8	115.5	114.1	81.3	83.3	82.8	11
45.4	48.9	47.6	200.4	218.7	209.2	44.7	45.8	45.5	167.3	181.3	179.9	117.2	116.0	113.8	12
23.5	26.3	26.1	113.7	126.7	118.7	32.4	35.2	35.1	89.9	97.1	95.9	98.5	100.5	98.8	13
12.0	13.4	13.2	71.2	79.3	75.1	12.0	12.8	12.7	63.0	66.8	66.6	64.3	66.9	65.9	14
19.0	21.4	20.9	65.2	71.0	66.7	9.8	10.2	10.1	52.6	56.2	55.3	44.8	46.7	45.5	15
9.8	10.2	10.1	42.7	47.9	45.5	6.6	6.8	6.8	32.1	35.0	34.6	25.1	26.3	25.9	16
59.4	61.9	61.8	236.1	255.5	247.0	49.0	51.0	51.1	161.4	173.0	173.8	214.8	222.9	219.5	17
21.4	21.9	22.1	84.4	93.3	91.2	21.6	23.2	23.2	58.4	63.7	63.8	83.8	89.3	88.9	18
20.0	20.5	20.4	64.7	68.0	66.1	13.3	13.9	13.9	49.6	53.1	53.3	27.6	29.3	29.5	19
54.2	59.3	58.8	233.6	254.7	247.2	60.2	65.9	65.7	167.7	174.1	172.7	195.2	201.1	200.6	20
4.9	5.4	5.4	24.5	26.1	25.4	4.9	5.1	5.1	17.6	18.3	18.1	21.0	22.2	22.1	21
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
32.6	35.0	34.7	129.8	141.2	136.5	39.1	41.7	41.6	98.3	101.9	102.0	79.4	83.5	82.5	23
3.1	3.3	3.3	17.4	19.0	18.4	5.0	5.3	5.4	13.4	14.0	14.1	26.3	26.8	27.2	24
258.2	269.6	267.6	946.1	1,007.7	969.4	219.7	231.1	231.2	851.5	901.9	885.3	710.6	707.6	698.4	25
12.9	13.8	13.6	47.9	50.4	49.3	8.1	8.4	8.3	36.8	39.4	39.2	29.9	30.5	30.3	26
8.2	8.1	8.1	11.5	11.8	11.5	1.3	1.3	1.3	8.0	8.3	8.3	7.1	7.2	7.2	27
82.7	84.0	83.4	325.8	342.2	330.6	101.1	105.7	105.8	344.3	369.8	359.6	236.7	233.8	231.8	28
5.0	5.4	5.2	21.8	23.5	23.1	4.4	4.4	4.4	18.8	19.6	19.6	14.9	14.5	14.5	29
15.3	15.9	15.7	44.1	45.6	45.2	11.6	12.2	12.3	33.3	34.8	34.2	55.9	56.4	55.8	30
5.2	5.3	5.0	16.2	17.2	16.5	3.4	3.6	3.6	14.7	15.1	14.9	13.9	14.9	14.8	31
6.1	6.4	6.3	31.2	34.9	33.8	5.0	5.2	5.2	19.7	20.8	20.5	15.3	15.2	15.0	32
12.4	13.3	13.1	49.6	54.5	52.3	8.8	9.4	9.5	38.7	40.3	39.6	37.7	38.7	37.8	33
97.1	99.0	98.0	407.0	429.0	412.9	116.0	121.7	121.5	402.5	432.1	416.3	294.9	294.6	294.4	34
56.2	56.3	55.9	151.2	160.1	153.8	66.4	68.8	69.4	196.5	207.6	201.7	146.4	142.7	142.5	35
56.5	57.6	58.1	199.0	214.4	208.8	42.5	43.9	43.5	189.2	197.6	193.8	117.9	118.6	123.4	36
6.3	6.5	6.4	26.0	27.8	27.5	5.3	5.8	5.8	20.7	22.4	22.3	15.9	17.3	16.7	37
4.3	4.7	4.6	18.6	20.6	20.0	3.2	3.4	3.4	15.4	16.5	16.1	11.7	11.7	11.7	38
6.3	6.7	6.8	26.4	28.6	27.3	4.7	5.2	5.2	17.0	17.5	17.2	19.3	18.7	18.6	39
2.4	2.5	2.5	9.2	10.9	10.5	1.8	1.9	2.0	7.4	7.6	7.6	7.0	7.1	7.0	40
6.6	7.0	6.6	30.1	32.2	31.0	3.5	3.9	3.9	18.6	19.2	19.1	18.7	18.7	18.6	41
12.7	13.6	13.1	75.7	84.1	77.5	19.2	20.2	19.8	70.4	76.4	73.2	59.2	60.9	60.3	42
12.7	13.5	13.0	77.5	85.5	78.8	19.4	20.5	20.0	67.7	73.2	70.1	56.3	57.8	57.2	43
46.3	50.6	50.5	200.5	222.0	212.3	42.1	44.5	44.3	135.4	145.0	145.7	219.6	228.9	228.3	44
8.3	8.5	8.7	28.6	31.5	30.7	5.4	5.9	5.9	19.9	21.6	22.1	43.1	44.3	44.5	45
8.3	8.8	8.7	35.3	39.3	38.1	12.4	13.0	13.1	25.0	26.1	25.8	50.4	53.3	52.1	46
9.5	10.3	10.2	47.5	51.8	50.1	8.5	8.8	8.6	31.6	33.3	33.2	33.3	34.0	33.9	47
13.0	13.4	13.4	60.8	63.9	62.8	10.3	11.1	11.5	45.0	48.1	48.0	56.8	57.5	56.7	48
1.8	1.9	1.8	7.7	7.9	7.8	1.3	1.3	1.4	5.3	6.0	5.9	5.6	5.6	5.6	49
4.6	5.2	5.1	15.6	15.6	15.2	3.2	3.0	3.0	10.8	12.2	12.1	6.5	6.8	6.7	50
78.4	83.4	82.3	356.4	387.9	376.1	71.5	73.1	72.7	253.0	266.6	264.5	300.3	309.6	307.7	51
6.6	6.7	6.6	30.3	31.3	30.9	9.0	9.5	9.5	25.6	26.4	26.0	30.7	31.3	31.5	52
7.2	7.7	7.8	39.3	42.8	42.3	7.4	8.0	8.0	27.6	30.3	30.1	40.9	42.1	42.1	53
24.2	25.8	25.4	91.5	97.3	94.4	18.6	18.8	18.7	65.3	68.1	67.8	66.9	68.0	67.0	54
18.1	19.2	19.2	76.9	82.5	81.9	21.3	22.2	22.2	62.2	66.6	65.4	61.9	64.0	64.0	55
313.7	342.1	341.8	1,242.6	1,342.0	1,307.9	282.4	301.9	301.4	852.7	904.5	902.9	906.6	963.9	957.0	56
6.5	6.8	6.7	21.2	21.9	21.5	3.6	3.7	3.6	13.5	14.1	13.9	11.8	12.2	12.0	57
6.4	6.5	6.5	43.3	45.4	44.9	12.2	13.2	13.0	34.2	36.0	36.0	74.6	80.2	79.1	58
10.6	10.6	10.7	31.0	32.4	31.3	5.2	5.4	5.4	22.9	23.2	23.4	18.2	18.2	18.2	59
6.6	6.4	6.6	26.2	26.6	26.1	5.1	5.2	5.3	16.7	17.7	17.5	25.1	25.7	25.5	60
78.5	85.3	84.9	327.1	354.7	347.0	90.8	96.5	96.3	210.9	228.3	227.5	167.4	176.0	172.1	61
9.6	10.2	10.3	36.6	38.3	37.7	6.7	7.1	7.1	23.7	25.1	25.2	29.9	32.7	32.7	62
5.5	6.7	6.8	12.1	13.2	12.9	4.2	4.4	4.5	9.7	10.3	10.2	15.8	16.5	16.5	63

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
TEXAS—Continued												
1 Houston ¹	1,212.0	1,297.3	1,291.5	59.8	62.0	61.9	126.3	139.0	136.0	201.7	212.6	213.0
2 Lubbock ¹	84.7	90.6	88.7	(1)	(1)	(1)	4.5	5.5	5.3	12.6	12.5	12.1
3 San Antonio ¹	352.7	369.6	366.6	1.9	1.9	1.9	21.9	23.2	22.3	44.6	47.1	47.1
4 Waco ¹	64.0	66.9	66.5	(1)	(1)	(1)	3.1	3.4	3.3	15.1	16.1	16.0
5 Wichita Falls ¹	48.7	49.9	49.5	2.6	2.6	2.6	2.2	2.4	2.4	8.7	9.1	9.2
6 UTAH	497.4	548.2	537.1	13.6	16.6	16.5	29.7	36.0	32.9	75.2	82.3	80.7
9 Salt Lake City—Ogden	355.3	388.7	381.7	6.7	7.2	7.3	20.5	24.4	21.6	50.7	55.2	54.5
8 VERMONT	181.1	195.8	192.2	.7	.8	.8	7.2	9.1	8.1	44.3	49.1	48.6
9 Burlington ¹⁵	46.8	52.9	50.9	-	-	-	-	-	-	11.3	12.9	13.0
10 Springfield ¹⁵	13.6	14.4	14.3	-	-	-	-	-	-	5.6	6.0	6.0
11 VIRGINIA	1,935.9	2,095.2	2,053.6	12.5	24.9	25.2	107.5	133.8	120.5	403.2	411.8	409.3
12 Bristol	25.4	27.8	27.5	(1)	(1)	(1)	.9	1.4	1.3	9.3	9.9	9.9
13 Lynchburg	66.1	70.1	68.9	(1)	(1)	(1)	2.7	3.5	3.1	28.8	29.3	29.3
14 Newport News—Hampton	134.6	140.8	138.3	(1)	(1)	(1)	5.8	8.0	7.3	34.7	32.3	32.5
15 Norfolk—Virginia Beach—Portsmouth	263.2	281.3	277.2	(1)	(1)	(1)	15.9	19.4	18.2	27.2	29.2	29.2
16 Northern Virginia ¹⁶	385.8	415.8	407.2	.3	.3	.4	23.0	27.9	24.8	14.8	16.1	16.1
17 Petersburg-Colonial Heights-Hopewell	45.3	47.5	47.4	(1)	(1)	(1)	2.4	2.5	2.5	12.1	11.8	11.9
18 Richmond	300.8	322.5	319.5	.4	.3	.3	17.0	19.3	18.1	52.8	54.5	54.7
19 Roanoke	99.6	105.2	102.6	.1	.1	.1	4.8	5.5	5.0	20.8	21.2	20.6
20 WASHINGTON	1,369.3	1,501.6	(*)	2.1	2.5	(*)	71.8	90.9	(*)	272.2	295.7	(*)
21 Seattle—Everett	647.1	725.8	(*)	(1)	(1)	(*)	31.2	43.1	(*)	133.1	152.7	(*)
22 Spokane	112.3	121.8	(*)	(1)	(1)	(*)	5.0	5.9	(*)	15.8	16.7	(*)
23 Tacoma	124.7	135.3	(*)	(1)	(1)	(*)	6.1	8.5	(*)	21.1	21.3	(*)
24 WEST VIRGINIA	555.2	636.9	624.7	18.5	74.6	71.9	36.0	39.8	35.8	121.6	124.9	124.1
25 Charleston	103.5	111.7	109.7	1.9	6.9	6.8	5.7	7.2	6.1	19.4	19.6	19.6
26 Huntington—Ashland	99.6	104.9	103.2	.7	1.0	1.0	6.0	6.7	5.8	28.3	29.3	29.3
27 Parkersburg—Marietta	53.6	57.6	56.9	.5	.5	.5	2.9	4.2	3.8	16.6	18.1	18.1
28 Wheeling	58.0	67.2	65.0	1.6	7.3	7.2	3.0	4.3	3.3	13.3	13.5	13.2
29 WISCONSIN ¹⁷	1,799.5	1,930.1	1,869.7	2.0	2.5	2.1	66.5	84.1	69.8	546.5	570.0	559.3
30 Appleton—Oshkosh ¹⁷	116.3	124.8	121.3	(1)	(1)	(1)	5.5	6.9	6.2	46.0	48.0	47.9
31 Eau Claire ¹⁷	43.2	44.8	43.6	(1)	(1)	(1)	1.6	1.6	1.3	9.1	8.9	8.7
32 Green Bay ¹⁷	72.8	76.9	74.1	(1)	(1)	(1)	3.4	3.5	2.9	20.4	21.3	20.6
33 Kenosha ¹⁷	39.8	44.1	37.5	(1)	(1)	(1)	1.2	1.3	1.3	15.5	18.7	12.8
34 La Crosse ¹⁷	39.3	42.1	41.1	(1)	(1)	(1)	1.5	1.8	1.6	10.1	10.7	10.6
35 Madison ¹⁷	153.8	159.3	156.7	(1)	(1)	(1)	6.3	7.0	6.2	19.3	18.6	18.6
36 Milwaukee ¹⁷	634.7	670.6	655.7	(1)	(1)	(1)	20.4	24.4	21.3	204.9	212.9	211.7
37 Racine ¹⁷	67.2	70.2	69.0	(1)	(1)	(1)	1.9	2.4	2.0	29.6	31.0	30.8
38 WYOMING ¹	170.4	194.7	189.6	27.2	30.6	30.7	16.4	21.2	18.6	9.1	10.1	9.7
39 Casper ¹	33.1	39.8	38.7	6.6	8.4	8.2	2.7	4.2	3.9	1.6	1.7	1.7
40 Cheyenne ¹	24.8	26.3	26.0	(1)	(1)	(1)	1.6	2.1	1.9	1.7	1.5	1.5

¹ Revised to 1978 benchmark; not strictly comparable with previously published data.

² Combined with services.

³ Combined with construction.

⁴ Revised to 1977 benchmark; not strictly comparable with previously published data.

⁵ Area included in Chicago-Gary Standard Consolidated Statistical Area.

⁶ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:

Burlington, Camden, and Gloucester Counties, New Jersey.

⁷ Subarea of New York-Northeastern New Jersey.

⁸ Subarea of Rochester Standard Metropolitan Statistical Area.

⁹ Area included in New York and Nassau-Suffolk combined SMSA's.

¹⁰ Subarea of New York Standard Metropolitan Statistical Area.

¹¹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:

Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

¹² Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:

Philadelphia County.

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

¹⁴ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

¹⁵ Total includes data for industry divisions not shown separately.

¹⁶ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

¹⁷ Revised to December 1977 benchmark; not strictly comparable with previously published data.

p=preliminary.
* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	
88.1	96.5	95.5	291.9	316.9	313.1	71.1	77.0	77.1	233.5	249.0	250.2	139.6	144.3	144.7	1
5.0	5.2	5.2	25.1	27.4	26.5	4.2	4.4	4.5	14.9	15.7	15.8	18.4	19.9	19.3	2
14.9	16.1	16.1	89.4	94.7	92.9	23.2	24.4	24.2	65.8	68.4	68.5	91.0	93.8	93.6	3
3.1	3.2	3.2	14.7	16.0	15.7	3.7	3.7	3.7	13.0	13.6	13.6	11.3	10.9	11.0	4
2.4	2.4	2.4	12.2	12.5	12.2	2.1	2.2	2.2	7.2	7.5	7.4	11.3	11.2	11.1	5
29.6	33.1	32.5	120.9	138.4	131.4	23.0	25.2	25.1	86.8	93.9	94.7	118.5	122.6	123.4	6
23.6	26.4	26.1	90.5	103.6	98.6	18.8	20.4	20.3	58.9	64.0	64.6	85.7	87.4	88.7	7
8.3	8.8	8.6	36.8	41.1	39.8	7.2	7.3	7.4	42.2	43.6	44.1	34.4	36.0	34.8	8
2.0	2.2	2.1	9.8	11.7	10.9	-	-	-	9.9	10.6	10.6	-	-	-	9
.7	.8	.7	2.0	2.1	2.1	-	-	-	2.8	2.9	3.0	-	-	-	10
103.9	111.6	111.0	412.9	457.6	435.9	92.2	98.4	97.7	333.3	362.4	359.5	470.4	494.7	494.5	11
.9	1.0	1.0	6.0	6.5	6.3	.8	.9	.9	3.0	3.3	3.3	4.5	4.8	4.8	12
2.5	2.5	2.5	11.0	12.1	11.3	3.0	3.1	3.1	9.0	9.7	9.8	9.1	9.9	9.8	13
4.0	4.6	4.7	24.6	27.3	25.6	4.4	4.6	4.6	23.0	24.9	24.8	38.1	39.1	38.8	14
17.6	17.9	18.1	63.6	70.1	67.6	13.5	14.2	14.0	47.2	49.8	49.5	78.2	80.7	80.6	15
26.0	27.4	27.2	93.2	103.1	98.7	23.9	25.2	25.0	92.5	99.8	98.8	112.1	116.0	116.2	16
1.3	1.5	1.5	8.4	9.1	9.0	1.2	1.3	1.3	5.4	5.8	5.8	14.5	15.5	15.4	17
17.8	19.5	19.5	70.9	76.0	74.7	23.3	25.1	25.1	50.6	55.3	54.6	68.0	72.5	72.5	18
9.3	10.0	10.0	25.0	27.0	25.5	5.6	5.9	6.0	18.3	19.1	18.8	15.7	16.4	16.4	19
77.8	87.1	(*)	333.3	373.5	(*)	78.1	84.2	(*)	252.1	275.0	(*)	281.9	292.7	(*)	20
44.2	48.5	(*)	159.4	181.2	(*)	45.8	49.8	(*)	122.7	135.1	(*)	110.7	115.4	(*)	21
7.5	7.8	(*)	31.3	34.4	(*)	7.4	7.9	(*)	25.0	28.1	(*)	20.3	21.0	(*)	22
5.7	6.7	(*)	29.2	32.6	(*)	6.3	6.7	(*)	25.9	29.0	(*)	30.4	30.5	(*)	23
33.3	42.4	41.9	125.1	130.4	127.8	20.3	20.6	20.7	86.2	88.5	87.9	114.3	115.8	114.5	24
8.7	9.5	9.5	25.4	26.5	25.8	4.8	4.9	4.9	18.4	18.6	18.5	19.2	18.6	18.7	25
7.8	9.5	9.6	22.4	23.7	23.1	3.6	3.7	3.7	13.9	14.1	14.1	16.9	16.9	16.7	26
2.3	2.6	2.5	11.9	12.5	12.2	1.9	1.9	1.9	8.2	8.6	8.5	9.4	9.4	9.4	27
3.5	3.8	3.7	14.3	15.7	14.9	2.4	2.4	2.4	12.4	12.5	12.5	7.5	7.7	7.8	28
83.5	90.5	87.7	406.5	454.0	431.6	82.5	87.6	87.2	321.7	342.5	338.5	290.7	299.0	293.5	29
4.1	4.2	4.1	23.2	26.5	24.7	4.6	4.8	4.8	18.1	19.0	18.8	14.9	15.3	14.8	30
2.5	2.6	2.5	11.0	12.0	11.6	1.4	1.4	1.4	8.8	8.9	9.2	8.9	9.4	9.0	31
5.0	5.3	5.2	18.4	19.8	19.3	2.5	2.7	2.7	12.9	13.8	13.1	10.3	10.4	10.3	32
1.5	1.5	1.6	7.7	8.4	7.9	.9	.9	.9	7.2	7.3	7.5	5.8	5.9	5.4	33
2.2	2.3	2.3	10.6	11.5	10.9	1.0	.9	.9	8.3	8.7	8.7	5.6	6.3	6.0	34
5.6	5.8	5.6	34.0	36.4	34.9	11.0	12.0	12.0	26.4	28.0	27.8	51.2	51.6	51.6	35
31.7	34.2	33.1	142.6	155.1	148.7	34.6	35.9	35.9	124.8	133.6	130.6	75.7	74.4	74.3	36
2.3	2.4	2.3	12.4	13.2	12.8	2.0	2.1	2.2	10.5	10.6	10.6	8.6	8.5	8.3	37
13.6	15.1	14.9	38.0	45.4	44.0	6.1	6.7	6.7	24.3	25.3	25.8	35.7	40.3	39.2	38
2.3	2.7	2.6	8.8	11.3	11.2	1.4	1.5	1.4	5.1	5.3	5.5	4.6	4.7	4.2	39
3.2	3.7	3.7	5.9	7.1	7.0	1.4	1.5	1.5	4.0	3.5	3.6	7.0	6.9	6.8	40

ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS

C-1. Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls by industry division, 1957 to date

Year and month	Average												
	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Hourly earnings excl. overtime
	Total private ²			Mining			Construction			Manufacturing			
1957.....	\$ 73.33	38.8	\$ 1.89	\$ 98.25	40.1	\$ 2.45	\$ 100.27	37.0	\$ 2.71	\$ 81.19	39.8	\$ 2.04	\$ 1.98
1958.....	75.08	38.5	1.95	96.08	38.9	2.47	103.78	36.8	2.82	82.32	39.2	2.10	2.05
1959 ³	78.78	39.0	2.02	103.68	40.5	2.56	108.41	37.0	2.93	88.26	40.3	2.19	2.12
1960.....	80.67	38.6	2.09	105.04	40.4	2.60	112.67	36.7	3.07	89.72	39.7	2.26	2.19
1961.....	82.60	38.6	2.14	106.92	40.5	2.64	118.08	36.9	3.20	92.34	39.8	2.32	2.25
1962.....	85.91	38.7	2.22	110.70	41.0	2.70	122.47	37.0	3.31	96.56	40.4	2.39	2.31
1963.....	88.46	38.8	2.28	114.40	41.6	2.75	127.19	37.3	3.41	99.23	40.5	2.45	2.37
1964.....	91.33	38.7	2.36	117.74	41.9	2.81	132.06	37.2	3.55	102.97	40.7	2.53	2.43
1965.....	95.45	38.8	2.46	123.52	42.3	2.92	138.38	37.4	3.70	107.53	41.2	2.61	2.50
1966.....	98.82	38.6	2.56	130.24	42.7	3.05	146.26	37.6	3.89	112.19	41.4	2.71	2.59
1967.....	101.84	38.0	2.68	135.89	42.6	3.19	154.95	37.7	4.11	114.49	40.6	2.82	2.71
1968.....	107.73	37.8	2.85	142.71	42.6	3.35	164.49	37.3	4.41	122.51	40.7	3.01	2.88
1969.....	114.61	37.7	3.04	154.80	43.0	3.60	181.54	37.9	4.79	129.51	40.6	3.19	3.05
1970.....	119.83	37.1	3.23	164.40	42.7	3.85	195.45	37.3	5.24	133.33	39.8	3.35	3.23
1971.....	127.31	36.9	3.45	172.14	42.4	4.06	211.67	37.2	5.69	142.44	39.9	3.57	3.45
1972.....	136.90	37.0	3.70	189.14	42.6	4.44	221.19	36.5	6.06	154.71	40.5	3.82	3.66
1973.....	145.39	36.9	3.94	201.40	42.4	4.75	235.89	36.8	6.41	166.46	40.7	4.09	3.91
1974.....	154.76	36.5	4.24	219.14	41.9	5.23	249.25	36.6	6.81	176.80	40.0	4.42	4.25
1975.....	163.53	36.1	4.53	249.31	41.9	5.95	266.08	36.4	7.31	190.79	39.5	4.83	4.67
1976.....	175.45	36.1	4.86	273.90	42.4	6.46	283.73	36.8	7.71	209.32	40.1	5.22	5.02
1977.....	189.00	36.0	5.25	301.63	43.4	6.95	295.65	36.5	8.10	228.90	40.3	5.68	5.44
1978.....	203.70	35.8	5.69	332.88	43.4	7.67	319.19	36.9	8.65	249.27	40.4	6.17	5.90
Feb.....	193.80	35.3	5.49	297.30	42.9	6.93	287.87	34.6	8.32	236.81	39.6	5.98	5.73
Mar.....	197.62	35.8	5.52	301.63	43.4	6.95	304.92	36.3	8.40	242.40	40.4	6.00	5.75
Apr.....	200.12	35.8	5.59	332.23	43.6	7.62	310.43	37.0	8.39	243.61	40.4	6.03	5.79
May.....	200.63	35.7	5.62	331.58	43.4	7.64	312.68	36.7	8.52	245.23	40.4	6.07	5.82
June.....	204.53	36.2	5.65	336.05	43.7	7.69	324.42	37.9	8.56	249.29	40.8	6.11	5.85
July.....	206.55	36.3	5.69	337.82	43.2	7.82	329.67	38.2	8.63	248.65	40.3	6.17	5.92
Aug.....	206.70	36.2	5.71	338.09	43.4	7.79	330.49	37.9	8.72	248.86	40.4	6.16	5.90
Sept.....	209.52	36.0	5.82	345.39	43.5	7.94	332.63	37.5	8.87	255.60	40.7	6.28	5.99
Oct.....	210.37	35.9	5.86	348.29	43.7	7.97	336.55	37.9	8.88	256.59	40.6	6.32	6.04
Nov.....	210.50	35.8	5.88	352.59	43.8	8.05	324.12	36.5	8.88	260.94	40.9	6.38	6.10
Dec.....	213.35	36.1	5.91	350.18	43.5	8.05	330.56	37.1	8.91	267.86	41.4	6.47	6.18
1979:													
Jan. p.....	209.44	35.2	5.95	348.50	42.5	8.20	310.91	34.7	8.96	259.85	40.1	6.48	6.22
Feb. p.....	211.34	35.4	5.97	353.03	43.0	8.21	317.54	35.4	8.97	261.30	40.2	6.50	6.23
	Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			
1957.....	-	-	-	\$ 59.60	38.7	\$ 1.54	\$ 67.53	36.7	\$ 1.84	-	-	-	-
1958.....	-	-	-	61.76	38.6	1.60	70.12	37.1	1.89	-	-	-	-
1959 ³	-	-	-	64.41	38.8	1.66	72.74	37.3	1.95	-	-	-	-
1960.....	-	-	-	66.01	38.6	1.71	75.14	37.2	2.02	-	-	-	-
1961.....	-	-	-	67.41	38.3	1.76	77.12	36.9	2.09	-	-	-	-
1962.....	-	-	-	69.91	38.2	1.83	80.94	37.3	2.17	-	-	-	-
1963.....	-	-	-	72.01	38.1	1.89	84.38	37.5	2.25	-	-	-	-
1964.....	\$ 118.78	41.1	\$ 2.89	74.66	37.9	1.97	85.79	37.3	2.30	\$ 70.03	36.1	\$ 1.94	-
1965.....	125.14	41.3	3.03	76.91	37.7	2.04	88.91	37.2	2.39	73.60	35.9	2.05	-
1966.....	128.13	41.2	3.11	79.39	37.1	2.14	92.13	37.3	2.47	77.04	35.5	2.17	-
1967.....	130.82	40.5	3.23	82.35	36.6	2.25	95.72	37.1	2.58	80.38	35.1	2.29	-
1968.....	138.85	40.6	3.42	87.00	36.1	2.41	101.75	37.0	2.75	83.97	34.7	2.42	-
1969.....	147.74	40.7	3.63	91.39	35.7	2.56	108.70	37.1	2.93	90.57	34.7	2.61	-
1970.....	155.93	40.5	3.85	96.02	35.3	2.72	112.67	36.7	3.07	96.66	34.4	2.81	-
1971.....	168.82	40.1	4.21	101.09	35.1	2.88	117.85	36.6	3.22	103.06	33.9	3.04	-
1972.....	187.86	40.4	4.65	106.45	34.9	3.05	122.98	36.6	3.36	110.85	33.9	3.27	-
1973.....	203.31	40.5	5.02	111.76	34.6	3.23	129.20	36.6	3.53	117.29	33.8	3.47	-
1974.....	217.48	40.2	5.41	119.02	34.2	3.48	137.61	36.5	3.77	126.00	33.6	3.75	-
1975.....	233.44	39.7	5.88	126.45	33.9	3.73	148.19	36.5	4.06	134.67	33.5	4.02	-
1976.....	256.71	39.8	6.45	133.79	33.7	3.97	155.43	36.4	4.27	143.52	33.3	4.31	-
1977.....	278.90	39.9	6.99	142.52	33.3	4.28	165.26	36.4	4.54	153.45	33.0	4.65	-
1978.....	302.00	40.0	7.55	153.31	32.9	4.66	178.36	36.4	4.90	163.67	32.8	4.99	-
Feb.....	294.80	40.0	7.37	146.64	32.3	4.54	173.26	36.4	4.76	160.56	32.7	4.91	-
Mar.....	294.33	40.1	7.34	149.11	32.7	4.56	172.79	36.3	4.76	161.05	32.8	4.91	-
Apr.....	296.51	39.8	7.45	150.42	32.7	4.60	177.14	36.6	4.84	162.36	32.8	4.95	-
May.....	297.26	39.9	7.45	150.75	32.7	4.61	176.06	36.3	4.85	161.37	32.6	4.95	-
June.....	301.04	40.3	7.47	153.38	33.2	4.62	178.49	36.5	4.89	162.69	33.0	4.93	-
July.....	301.20	40.0	7.53	157.04	33.7	4.66	180.93	36.7	4.93	164.84	33.3	4.95	-
Aug.....	307.49	40.3	7.63	156.45	33.5	4.67	179.71	36.6	4.91	164.01	33.2	4.94	-
Sept.....	309.94	40.2	7.71	155.47	32.8	4.74	180.91	36.4	4.97	165.46	32.7	5.06	-
Oct.....	309.57	40.1	7.72	156.31	32.7	4.78	183.73	36.6	5.02	167.42	32.7	5.12	-
Nov.....	308.80	40.0	7.72	156.00	32.5	4.80	182.59	36.3	5.03	167.24	32.6	5.13	-
Dec.....	314.36	40.2	7.82	158.88	33.1	4.80	184.04	36.3	5.07	167.70	32.5	5.16	-
1979:													
Jan. p.....	306.93	39.4	7.79	157.91	31.9	4.95	186.73	36.4	5.13	169.45	32.4	5.23	-
Feb. p.....	309.67	39.6	7.82	159.22	32.1	4.96	187.31	36.3	5.16	170.42	32.4	5.26	-

¹For coverage of series, see footnote 1, table B-2.
²Data include Alaska and Hawaii beginning 1959.

³Prior to January 1956, data were based on the application of adjustment factors to gross average hourly earnings. (See Explanatory Note.)

p = preliminary.
c = corrected.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
-	TOTAL PRIVATE	\$203.70	\$192.00	\$213.35	\$209.44	\$211.34	\$5.69	\$5.47	\$5.91	\$5.95	\$5.97
-	MINING	332.88	289.53	350.18	348.50	353.03	7.67	6.91	8.05	8.20	8.21
10	METAL MINING	340.31	319.35	369.67	372.66	-	8.26	7.77	8.76	8.81	-
101	Iron ores	360.40	331.38	383.10	397.73	-	8.48	7.89	8.93	9.06	-
102	Copper ores	338.40	313.97	387.43	384.30	-	8.46	8.03	9.01	9.00	-
11, 12	COAL MINING	387.73	280.28	401.55	406.13	-	**9.53	7.94	9.77	9.81	-
12	BITUMINOUS COAL AND LIGNITE MINING	390.31	281.50	403.35	408.36	-	**9.57	8.02	9.79	9.84	-
13	OIL AND GAS EXTRACTION	315.45	299.68	327.88	326.56	-	7.01	6.78	7.27	7.49	-
131 2	Crude petroleum, natural gas, and natural gas liquids	334.08	330.06	343.21	359.98	-	8.05	7.84	8.27	8.49	-
138	Oil and gas field services	306.90	286.12	321.54	312.23	-	6.60	6.33	6.90	7.08	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	283.32	234.00	291.71	268.86	-	6.31	6.00	6.57	6.51	-
142	Crushed and broken stone	278.76	214.91	284.58	253.79	-	6.14	5.84	6.31	6.19	-
-	CONSTRUCTION	319.19	275.22	330.56	310.91	317.54	8.65	8.34	8.91	8.96	8.97
15	GENERAL BUILDING CONTRACTORS	287.03	253.99	296.18	282.69	-	8.04	7.72	8.25	8.29	-
152	Residential building construction	271.27	242.82	277.03	267.34	-	7.62	7.27	7.76	7.84	-
153	Operative builders	249.57	225.96	253.00	234.18	-	7.03	6.91	7.27	7.25	-
154	Nonresidential building construction	311.97	271.64	327.24	308.70	-	8.69	8.41	8.99	9.00	-
16	HEAVY CONSTRUCTION CONTRACTORS	324.01	258.57	331.25	298.19	-	8.08	7.65	8.24	8.26	-
161	Highway and street construction	314.08	217.12	312.30	259.20	-	7.55	6.66	7.58	7.22	-
162	Heavy construction, except highway	329.78	272.92	339.44	312.41	-	8.37	7.98	8.55	8.63	-
17	SPECIAL TRADE CONTRACTORS	333.20	292.34	348.58	329.82	-	9.23	8.94	9.55	9.56	-
171	Plumbing, heating, air conditioning	352.69	320.94	366.72	352.54	-	9.38	8.99	9.60	9.58	-
172	Painting, paper hanging, decorating	296.69	254.75	313.82	297.44	-	8.55	8.38	8.89	8.80	-
173	Electrical work	387.56	348.61	412.16	397.06	-	10.28	9.82	10.65	10.56	-
174	Masonry, stonework, and plastering	307.24	260.17	315.02	298.30	-	9.01	8.76	9.32	9.41	-
175	Carpentering and flooring	288.49	244.42	303.84	278.01	-	8.29	7.91	8.44	8.45	-
176	Roofing and sheet metal work	260.65	194.56	266.29	229.47	-	8.02	7.66	8.27	8.08	-
-	MANUFACTURING	249.27	234.02	267.86	259.85	261.30	6.17	5.97	6.47	6.48	6.50
24, 25, 32-39	DURABLE GOODS	270.44	252.73	292.72	281.52	284.13	6.58	6.35	6.92	6.90	6.93
20-23, 26-31	NONDURABLE GOODS	217.88	205.52	229.43	226.59	226.59	5.53	5.38	5.75	5.81	5.81
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	223.28	203.74	232.18	223.69	226.98	5.61	5.39	5.79	5.81	5.82
241	Logging camps and logging contractors	288.35	240.80	301.44	276.02	-	7.30	7.00	7.48	7.40	-
242	Sawmills and planing mills	235.65	218.23	244.58	236.59	-	5.79	5.61	5.98	6.02	-
2421	Sawmills and planing mills, general	249.49	231.08	258.30	250.83	-	6.10	5.91	6.30	6.35	-
2426	Hardwood dimension and flooring	159.98	145.92	169.74	165.53	-	3.96	3.82	4.13	4.18	-
243	Millwork, plywood, and structural members	220.09	210.36	230.11	223.30	-	5.53	5.38	5.71	5.77	-
2431	Millwork	208.29	196.47	216.22	211.84	-	5.30	5.09	5.46	5.56	-
2434	Wood kitchen cabinets	195.94	184.63	205.80	201.47	-	5.05	4.99	5.25	5.33	-
2435	Hardwood veneer and plywood	180.10	172.30	189.11	183.14	-	4.48	4.34	4.59	4.66	-
2436	Softwood veneer and plywood	289.95	284.60	299.29	292.13	-	6.97	6.76	7.16	7.16	-
244	Wooden containers	156.56	139.83	163.28	160.52	-	4.12	3.95	4.23	4.35	-
245	Wood buildings and mobile homes	197.98	175.64	201.47	194.39	-	5.21	4.92	5.46	5.43	-
2451	Mobile homes	195.66	176.49	195.12	188.32	-	5.19	4.93	5.42	5.35	-
249	Miscellaneous wood products	183.81	169.34	195.69	190.30	-	4.63	4.48	4.82	4.83	-
25	FURNITURE AND FIXTURES	183.92	170.17	194.89	186.31	187.83	4.68	4.55	4.86	4.89	4.93
251	Household furniture	171.21	155.98	182.74	173.34	-	4.39	4.25	4.58	4.61	-
2511	Wood household furniture	160.78	144.30	172.98	164.78	-	4.06	3.90	4.25	4.28	-
2512	Upholstered household furniture	180.78	164.32	197.11	181.79	-	4.72	4.59	4.94	4.90	-
2514	Metal household furniture	171.26	162.94	178.02	170.88	-	4.46	4.38	4.60	4.76	-
2515	Mattresses and bedsprings	194.27	185.11	195.19	194.14	-	5.02	4.91	5.15	5.29	-
252	Office furniture	210.42	202.18	220.66	218.83	-	5.17	5.08	5.33	5.39	-
253	Public building and related furniture	210.20	199.68	217.34	210.79	-	5.19	5.12	5.34	5.35	-
254	Partitions and fixtures	221.69	207.04	231.09	222.32	-	5.57	5.42	5.72	5.73	-
259	Miscellaneous furniture and fixtures	202.36	192.89	212.67	208.98	-	5.11	5.01	5.33	5.40	-

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
--	TOTAL PRIVATE	35.8	35.1	36.1	35.2	35.4	--	--	--	--	--
--	MINING	43.4	41.9	43.5	42.5	43.0	--	--	--	--	--
10	METAL MINING	41.2	41.1	42.2	42.3	--	--	--	--	--	--
101	Iron ores	42.5	42.0	42.9	43.9	--	--	--	--	--	--
102	Copper ores	40.0	39.1	43.0	42.7	--	--	--	--	--	--
11, 12	COAL MINING	40.7	35.3	41.1	41.4	--	--	--	--	--	--
12	BITUMINOUS COAL AND LIGNITE MINING	40.7	35.1	41.2	41.5	--	--	--	--	--	--
13	OIL AND GAS EXTRACTION	45.0	44.2	45.1	43.6	--	--	--	--	--	--
131, 2	Crude petroleum, natural gas, and natural gas liquids	41.5	42.1	41.5	42.4	--	--	--	--	--	--
138	Oil and gas field services	46.5	45.2	46.6	44.1	--	--	--	--	--	--
14	NONMETALLIC MINERALS, EXCEPT FUELS	44.9	39.0	44.4	41.3	--	--	--	--	--	--
142	Crushed and broken stone	45.4	36.8	45.1	41.0	--	--	--	--	--	--
--	CONSTRUCTION	36.9	33.0	37.1	34.7	35.4	--	--	--	--	--
15	GENERAL BUILDING CONTRACTORS	35.7	32.9	35.9	34.1	--	--	--	--	--	--
152	Residential building construction	35.6	33.4	35.7	34.1	--	--	--	--	--	--
153	Operative builders	35.5	32.7	34.8	32.3	--	--	--	--	--	--
154	Nonresidential building construction	35.9	32.3	36.4	34.3	--	--	--	--	--	--
16	HEAVY CONSTRUCTION CONTRACTORS	40.1	33.8	40.2	36.1	--	--	--	--	--	--
161	Highway and street construction	41.6	32.6	41.2	35.9	--	--	--	--	--	--
162	Heavy construction, except highway	39.4	34.2	39.7	36.2	--	--	--	--	--	--
17	SPECIAL TRADE CONTRACTORS	36.1	32.7	36.5	34.5	--	--	--	--	--	--
171	Plumbing, heating, air conditioning	37.6	35.7	38.2	36.8	--	--	--	--	--	--
172	Painting, paper hanging, decorating	34.7	30.4	35.3	33.8	--	--	--	--	--	--
173	Electrical work	37.7	35.5	38.7	37.6	--	--	--	--	--	--
174	Masonry, stonework, and plastering	34.1	29.7	33.8	31.7	--	--	--	--	--	--
175	Carpentering and flooring	34.8	30.9	36.0	32.9	--	--	--	--	--	--
176	Roofing and sheet metal work	32.5	25.4	32.2	28.4	--	--	--	--	--	--
--	MANUFACTURING	40.4	39.2	41.4	40.1	40.2	3.6	3.3	3.9	3.5	3.5
24, 25, 32-39	DURABLE GOODS	41.1	39.8	42.3	40.8	41.0	3.8	3.4	4.3	3.8	3.9
20-23, 26-31	NONDURABLE GOODS	39.4	38.2	39.9	39.0	39.0	3.2	3.0	3.3	3.0	3.0
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	39.8	37.8	40.1	38.5	39.0	3.7	3.1	3.9	3.3	--
241	Logging camps and logging contractors	39.5	34.4	40.3	37.3	--	4.5	3.1	4.8	3.4	--
242	Sawmills and planing mills	40.7	38.9	40.9	39.3	--	4.5	3.9	4.6	4.1	--
2421	Sawmills and planing mills, general	40.9	39.1	41.0	39.5	--	4.7	4.1	4.8	4.4	--
2426	Hardwood dimension and flooring	40.4	38.2	41.1	39.6	--	3.8	3.3	3.8	3.2	--
243	Millwork, plywood, and structural members	39.8	39.1	40.3	38.7	--	3.2	3.0	3.5	3.1	--
2431	Millwork	39.3	38.6	39.6	38.1	--	2.4	2.2	2.7	2.2	--
2434	Wood kitchen cabinets	38.8	37.0	39.2	37.8	--	2.3	2.1	2.9	2.0	--
2435	Hardwood veneer and plywood	40.2	39.7	41.2	39.3	--	3.8	3.8	4.0	3.8	--
2436	Softwood veneer and plywood	41.6	42.1	41.8	40.8	--	4.9	5.0	5.0	5.0	--
244	Wooden containers	38.0	35.4	38.6	36.9	--	3.1	2.3	3.1	2.8	--
245	Wood buildings and mobile homes	38.0	35.7	36.9	35.8	--	2.3	1.6	2.1	2.1	--
2451	Mobile homes	37.7	35.8	36.0	35.2	--	1.9	1.7	1.6	1.6	--
249	Miscellaneous wood products	39.7	37.8	40.6	39.4	--	3.4	3.1	3.6	3.1	--
25	FURNITURE AND FIXTURES	39.3	37.4	40.1	38.1	38.1	2.7	2.3	3.0	2.4	--
251	Household furniture	39.0	36.7	39.9	37.6	--	2.6	2.2	2.9	2.3	--
2511	Wood household furniture	39.6	37.0	40.7	38.5	--	3.2	2.6	3.6	3.1	--
2512	Upholstered household furniture	38.3	35.8	39.9	37.1	--	1.9	1.6	2.5	1.5	--
2514	Metal household furniture	38.4	37.2	38.7	39.9	--	1.8	1.6	1.6	1.4	--
2515	Mattresses and bedspings	38.7	37.7	37.9	36.7	--	3.0	2.6	2.4	2.1	--
252	Office furniture	40.7	39.8	41.4	40.6	--	2.9	2.8	3.3	3.1	--
253	Public building and related furniture	40.5	39.0	40.7	39.4	--	2.7	2.7	3.0	2.4	--
254	Partitions and fixtures	39.8	38.2	40.4	38.8	--	2.9	2.2	3.1	2.1	--
259	Miscellaneous furniture and fixtures	39.6	38.5	39.9	38.7	--	2.4	2.0	3.0	2.8	--

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
32	STONE, CLAY, AND GLASS PRODUCTS	\$262.91	\$236.16	\$277.25	\$264.62	\$266.74	\$6.32	\$6.04	\$6.57	\$6.55	\$6.57
321	Flat glass	346.18	324.36	402.55	369.36	—	7.94	7.65	8.62	8.55	—
322	Glass and glassware, pressed or blown	265.98	249.48	280.17	277.26	—	6.60	6.30	6.85	6.88	—
3221	Glass containers	277.83	257.80	293.15	290.09	—	6.86	6.51	7.03	7.11	—
3229	Pressed and blown glass, nec	249.60	237.60	262.68	260.43	—	6.24	6.00	6.62	6.56	—
323	Products of purchased glass	259.97	254.61	280.50	274.80	—	6.31	6.21	6.60	6.59	—
324	Cement, hydraulic	365.05	343.61	380.75	393.12	—	8.63	8.24	8.98	9.10	—
325	Structural clay products	210.02	192.55	222.18	215.74	—	5.11	4.85	5.29	5.34	—
326	Pottery and related products	203.18	188.87	215.32	216.37	—	5.17	5.05	5.41	5.45	—
327	Concrete, gypsum, and plaster products	268.36	213.53	275.62	242.94	—	6.27	5.85	6.47	6.31	—
3271	Concrete block and brick	247.24	195.81	254.32	227.71	—	5.71	5.35	5.97	5.93	—
3272	Concrete products, nec	234.35	197.47	241.92	232.65	—	5.62	5.41	5.76	5.72	—
3273	Ready-mixed concrete	297.03	218.92	303.12	251.23	—	6.94	6.42	7.20	6.94	—
329	Misc. nonmetallic mineral products	264.11	245.59	283.62	275.10	—	6.26	5.99	6.55	6.55	—
3291	Abrasive products	251.72	238.40	268.69	263.74	—	6.20	5.99	6.49	6.48	—
3292	Asbestos products	281.01	265.02	300.79	283.60	—	6.46	6.28	6.64	6.58	—
33	PRIMARY METAL INDUSTRIES	342.76	323.05	363.80	359.50	360.26	8.20	7.86	8.56	8.58	8.66
331	Blast furnace and basic steel products	390.52	369.49	408.51	409.49	—	9.41	8.99	9.82	9.82	—
3312	Blast furnaces and steel mills	401.58	379.25	418.78	421.41	—	9.70	9.25	10.14	10.13	—
3317	Steel pipe and tubes	320.46	304.71	337.55	329.54	—	7.63	7.45	7.98	7.96	—
332	Iron and steel foundries	304.08	283.68	338.57	319.35	—	7.24	6.97	7.66	7.64	—
3321	Gray iron foundries	312.60	291.82	352.35	328.86	—	7.39	7.17	7.83	7.83	—
3322	Malleable iron foundries	315.43	300.11	354.01	335.32	—	7.75	7.41	8.31	8.30	—
3325	Steel foundries, nec	285.49	263.74	306.74	295.78	—	6.83	6.48	7.15	7.11	—
333	Primary nonferrous metals	359.52	344.84	376.74	385.10	—	8.56	8.23	8.97	9.04	—
3334	Primary aluminum	384.22	369.56	394.42	404.34	—	9.17	8.97	9.55	9.65	—
335	Nonferrous rolling and drawing	310.30	289.40	333.65	330.48	—	7.25	6.94	7.67	7.65	—
3351	Copper rolling and drawing	296.04	274.10	305.64	308.69	—	6.79	6.48	7.01	7.08	—
3353	Aluminum sheet, plate, and foil	376.25	354.38	404.05	398.74	—	8.75	8.28	9.31	9.23	—
3357	Nonferrous wire drawing and insulating	287.54	264.37	315.23	311.90	—	6.83	6.56	7.23	7.22	—
336	Nonferrous foundries	254.41	242.80	274.72	266.98	—	6.19	6.01	6.51	6.48	—
3361	Aluminum foundries	263.22	250.48	290.44	279.60	—	6.42	6.20	6.85	6.77	—
34	FABRICATED METAL PRODUCTS	259.94	243.79	279.36	268.87	270.50	6.34	6.11	6.62	6.59	6.63
341	Metal cans and shipping containers	348.94	316.76	359.93	353.21	—	8.04	7.56	8.39	8.35	—
3411	Metal cans	360.18	324.79	371.09	361.64	—	8.28	7.77	8.65	8.59	—
342	Cutlery, hand tools, and hardware	246.04	233.78	261.04	250.80	—	6.06	5.83	6.29	6.27	—
3423, 5	Hand and edge tools, and hand saws and blades	236.06	230.18	249.45	246.64	—	5.80	5.56	6.04	6.12	—
3429	Hardware, nec	257.00	242.78	272.72	256.86	—	6.33	6.10	6.54	6.47	—
343	Plumbing and heating, except electric	219.62	209.67	231.38	231.02	—	5.56	5.39	5.77	5.79	—
3432	Plumbing fittings and brass goods	215.32	206.46	222.24	220.97	—	5.41	5.24	5.57	5.58	—
3433	Heating equipment, except electric	212.01	198.36	231.09	225.15	—	5.45	5.22	5.72	5.70	—
344	Fabricated structural metal products	242.20	226.01	258.71	249.48	—	6.04	5.84	6.31	6.30	—
3441	Fabricated structural metal	255.15	227.46	275.81	261.49	—	6.30	5.97	6.63	6.57	—
3442	Metal doors, sash, and trim	190.61	178.60	201.28	192.27	—	4.85	4.70	5.07	5.10	—
3443	Fabricated plate work (boiler shops)	267.96	254.48	286.06	275.93	—	6.60	6.41	6.86	6.83	—
3444	Sheet metal work	245.92	232.32	258.73	253.20	—	6.21	6.05	6.42	6.41	—
3446	Architectural metal work	234.80	219.01	255.42	247.63	—	5.87	5.63	6.14	6.16	—
345	Screw machine products, bolts, etc.	255.35	240.45	273.50	267.22	—	5.98	5.78	6.23	6.20	—
3451	Screw machine products	237.73	225.89	251.27	244.76	—	5.62	5.43	5.83	5.80	—
3452	Bolts, nuts, rivets, and washers	273.89	255.62	296.58	290.40	—	6.34	6.13	6.62	6.60	—
346	Metal forgings and stampings	309.54	288.26	344.65	321.09	—	7.37	7.10	7.78	7.70	—
3462	Iron and steel forgings	340.47	328.75	375.75	356.58	—	8.03	7.96	8.35	8.41	—
3465	Automotive stampings	375.83	341.96	430.57	384.64	—	8.72	8.28	9.22	9.18	—
3469	Metal stampings, nec	228.58	215.67	240.86	240.20	—	5.63	5.46	5.79	5.83	—
347	Metal services, nec	206.74	197.50	217.83	216.41	—	5.13	5.00	5.30	5.37	—
3471	Plating and polishing	199.39	190.39	210.23	206.96	—	4.96	4.82	5.14	5.20	—
3479	Metal coating and allied services	226.29	214.88	236.97	240.45	—	5.56	5.44	5.71	5.78	—
348	Ordinance and accessories, nec	249.89	233.64	265.92	262.35	—	6.17	5.93	6.47	6.51	—
3483	Ammunition, exc. for small arms, nec	224.84	209.99	243.97	241.25	—	5.78	5.57	6.13	6.17	—
349	Misc. fabricated metal products	246.02	234.99	264.39	258.54	—	6.03	5.86	6.28	6.26	—
3494	Valves and pipe fittings	266.48	258.54	286.18	276.96	—	6.36	6.20	6.64	6.61	—
3496	Misc. fabricated wire products	213.73	200.60	229.63	226.80	—	5.33	5.17	5.56	5.60	—
35	MACHINERY, EXCEPT ELECTRICAL	283.92	267.73	310.87	296.94	302.31	6.76	6.53	7.13	7.07	7.13
351	Engines and turbines	336.80	323.82	368.47	354.06	—	8.00	7.71	8.49	8.39	—
3511	Turbines and turbine generator sets	297.82	270.84	325.44	323.33	—	7.39	7.09	7.88	7.81	—
3519	Internal combustion engines, nec	350.57	344.52	383.23	365.08	—	8.21	7.92	8.69	8.59	—
352	Farm and garden machinery	303.32	286.44	343.29	316.68	—	7.38	7.09	7.91	7.80	—
3523	Farm machinery and equipment	311.54	293.06	356.53	327.64	—	7.58	7.29	8.14	8.05	—
353	Construction and related machinery	304.50	286.12	333.43	316.68	—	7.25	7.03	7.63	7.54	—

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
32	STONE, CLAY, AND GLASS PRODUCTS	41.6	39.1	42.2	40.4	40.6	4.8	3.9	4.7	4.1	-
321	Flat glass	43.6	42.4	46.7	43.2	-	6.4	7.0	6.7	6.9	-
322	Glass and glassware, pressed or blown	40.3	39.6	40.9	40.3	-	4.1	4.2	4.1	3.9	-
3221	Glass containers	40.5	39.6	41.7	40.8	-	4.7	4.7	4.4	4.3	-
3229	Pressed and blown glass, nec	40.0	39.6	39.8	39.7	-	3.4	3.4	3.6	3.3	-
323	Products of purchased glass	41.2	41.0	42.5	41.7	-	4.3	4.3	5.1	4.7	-
324	Cement, hydraulic	42.3	41.7	42.4	43.2	-	4.3	4.3	4.0	4.8	-
325	Structural clay products	41.1	39.7	42.0	40.4	-	4.3	4.0	4.4	3.8	-
326	Pottery and related products	39.3	37.4	39.8	39.7	-	2.5	2.1	2.7	2.4	-
327	Concrete, gypsum, and plaster products	42.8	36.5	42.6	38.5	-	6.4	3.8	5.8	4.2	-
3271	Concrete block and brick	43.3	36.6	42.6	38.4	-	6.9	3.4	5.9	4.5	-
3272	Concrete products, nec	41.7	36.5	42.0	39.1	-	5.5	3.5	5.0	4.0	-
3273	Ready-mixed concrete	42.8	34.1	42.1	36.2	-	6.6	2.9	5.8	3.5	-
329	Misc. nonmetallic mineral products	42.2	41.0	43.3	42.0	-	4.4	4.1	4.6	4.3	-
3291	Abrasive products	40.6	39.8	41.4	40.7	-	3.5	3.4	3.8	3.6	-
3292	Asbestos products	43.5	42.2	45.3	43.1	-	4.8	4.9	4.7	4.2	-
33	PRIMARY METAL INDUSTRIES	41.8	41.1	42.5	41.9	41.6	4.2	4.1	4.4	4.3	-
331	Blast furnace and basic steel products	41.5	41.1	41.6	41.7	-	3.5	3.4	3.5	3.7	-
3312	Blast furnaces and steel mills	41.4	41.0	41.3	41.6	-	3.4	3.4	3.3	3.7	-
3317	Steel pipe and tubes	42.0	40.9	42.3	41.4	-	4.4	4.0	4.5	4.0	-
332	Iron and steel foundries	42.0	40.7	44.2	41.8	-	4.9	4.9	5.6	4.9	-
3321	Gray iron foundries	42.3	40.7	45.0	42.0	-	5.4	5.4	5.9	5.3	-
3322	Malleable iron foundries	40.7	40.5	42.6	40.4	-	4.2	4.1	6.0	4.4	-
3325	Steel foundries, nec	41.8	40.7	42.9	41.6	-	4.1	4.2	4.8	4.1	-
333	Primary nonferrous metals	42.0	41.9	42.0	42.6	-	3.7	3.8	3.5	3.8	-
3334	Primary aluminum	41.9	41.2	41.3	41.9	-	4.1	4.2	3.5	3.9	-
335	Nonferrous rolling and drawing	42.8	41.7	43.5	43.2	-	5.4	4.9	5.9	5.5	-
3351	Copper rolling and drawing	43.6	42.3	43.6	43.6	-	5.8	4.7	6.0	6.1	-
3353	Aluminum sheet, plate and foil	43.0	42.8	43.4	43.2	-	7.1	8.4	7.2	6.3	-
3357	Nonferrous wire drawing and insulating	42.1	40.3	43.6	43.2	-	4.7	3.5	5.3	5.0	-
336	Nonferrous foundries	41.1	40.4	42.2	41.2	-	3.7	4.0	4.4	3.9	-
3361	Aluminum foundries	41.0	40.4	42.4	41.3	-	3.9	4.1	4.9	4.4	-
34	FABRICATED METAL PRODUCTS	41.0	39.9	42.2	40.8	40.8	3.8	3.4	4.1	3.6	-
341	Metal cans and shipping containers	43.4	41.9	42.9	42.3	-	4.7	3.8	4.0	4.1	-
3411	Metal cans	43.5	41.8	42.9	42.1	-	4.4	3.6	3.5	3.8	-
342	Cutlery, hand tools, and hardware	40.6	40.1	41.5	40.0	-	3.3	2.9	3.9	3.1	-
3423, 5	Hand and edge tools, and hand saws and blades	40.7	41.4	41.3	40.3	-	3.3	3.5	3.7	3.5	-
3429	Hardware, nec	40.6	39.8	41.7	39.7	-	3.4	2.7	4.0	2.8	-
343	Plumbing and heating, except electric	39.5	38.9	40.1	39.9	-	2.6	2.6	3.0	3.1	-
3432	Plumbing fittings and brass goods	39.8	39.4	39.9	39.6	-	2.6	2.3	2.9	3.2	-
3433	Heating equipment, except electric	38.9	38.0	40.4	39.5	-	2.2	2.4	2.7	2.4	-
344	Fabricated structural metal products	40.1	38.7	41.0	39.6	-	3.2	2.8	3.4	2.6	-
3441	Fabricated structural metal	40.5	38.1	41.6	39.8	-	3.5	2.6	4.0	3.3	-
3442	Metal doors, sash, and trim	39.3	38.0	39.7	37.7	-	2.8	2.8	2.5	1.7	-
3443	Fabricated plate work (boiler shops)	40.6	39.7	41.7	40.4	-	3.2	3.3	3.6	2.5	-
3444	Sheet metal work	39.6	38.4	40.3	39.5	-	3.2	2.8	3.2	2.8	-
3446	Architectural metal work	40.0	38.9	41.6	40.2	-	2.3	2.0	2.7	2.0	-
345	Screw machine products, bolts, etc.	42.7	41.6	43.9	43.1	-	5.3	4.9	6.0	5.2	-
3451	Screw machine products	42.3	41.6	43.1	42.2	-	5.5	5.1	6.0	5.3	-
3452	Bolts, nuts, rivets, and washers	43.2	41.7	44.8	44.0	-	5.1	4.6	5.9	5.2	-
346	Metal forgings and stampings	42.0	40.6	44.3	41.7	-	4.7	4.5	5.0	4.7	-
3462	Iron and steel forgings	42.4	41.3	45.0	42.4	-	5.5	5.3	6.5	5.7	-
3465	Automotive stampings	43.1	41.3	46.7	41.9	-	5.5	5.4	5.3	5.4	-
3469	Metal stampings, nec	40.6	39.5	41.6	41.2	-	3.5	3.2	3.8	3.5	-
347	Metal services, nec	40.3	39.5	41.1	40.3	-	3.9	3.6	4.2	3.6	-
3471	Plating and polishing	40.2	39.5	40.9	39.8	-	3.7	3.5	3.9	3.3	-
3479	Metal coating and allied services	40.7	39.5	41.5	41.6	-	4.3	3.7	4.8	4.5	-
348	Ordnance and accessories, nec	40.5	39.4	41.1	40.3	-	3.1	2.6	3.1	2.7	-
3483	Ammunition, exc. for small arms, nec	38.9	37.7	39.8	39.1	-	1.9	2.2	1.9	1.7	-
349	Misc. fabricated metal products	40.8	40.1	42.1	41.3	-	3.4	3.3	4.1	3.5	-
3494	Valves and pipe fittings	41.9	41.7	43.1	41.9	-	3.9	4.2	4.7	3.8	-
3496	Misc. fabricated wire products	40.1	38.8	41.3	40.5	-	2.9	2.3	3.6	3.4	-
35	MACHINERY, EXCEPT ELECTRICAL	42.0	41.0	43.6	42.0	42.4	4.3	4.0	5.0	4.3	-
351	Engines and turbines	42.1	42.0	43.4	42.2	-	4.2	4.1	5.6	4.1	-
3511	Turbines and turbine generator sets	40.3	38.2	41.3	41.4	-	4.1	2.1	5.7	3.9	-
3519	Internal combustion engines, nec	42.7	43.5	44.1	42.5	-	4.2	4.8	5.5	4.1	-
352	Farm and garden machinery	41.1	40.4	43.4	40.6	-	3.8	3.6	4.8	4.9	-
3523	Farm machinery and equipment	41.1	40.2	43.8	40.7	-	3.9	3.6	4.9	5.1	-
353	Construction and related machinery	42.0	40.7	43.7	42.0	-	3.9	3.5	4.5	3.8	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	\$331.17	\$312.33	\$362.51	\$338.64	-	\$7.98	\$7.75	\$8.45	\$8.30	-
3532	Mining machinery	295.94	266.06	329.43	321.16	-	7.08	6.77	7.47	7.40	-
3533	Oil field machinery	293.71	278.85	321.32	308.33	-	6.66	6.44	6.97	6.96	-
3535	Conveyers and conveying equipment	257.27	236.41	277.33	267.07	-	6.14	5.94	6.39	6.42	-
3537	Industrial trucks and tractors	269.94	254.48	297.03	285.52	-	6.60	6.41	6.94	6.93	-
354	Metalworking machinery	308.88	294.25	335.51	326.20	-	7.02	6.78	7.39	7.38	-
3541	Machine tools, metal cutting types	322.56	306.05	352.20	337.95	-	7.20	6.94	7.64	7.51	-
3542	Machine tools, metal forming types	315.62	292.46	344.06	317.67	-	7.34	6.98	7.68	7.51	-
3544	Special dies, tools, jigs, and fixtures	399.90	327.15	370.51	361.49	-	7.52	7.27	7.90	7.91	-
3545	Machine tool accessories	272.21	259.76	291.45	291.36	-	6.36	6.17	6.70	6.76	-
3546	Power driven hand tools	225.62	215.86	249.90	231.48	-	5.53	5.41	5.88	5.89	-
355	Special industry machinery	265.60	250.71	287.67	277.22	-	6.40	6.16	6.69	6.68	-
3551	Food products machinery	280.13	260.50	304.29	296.78	-	6.75	6.48	7.06	7.10	-
3552	Textile machinery	215.30	205.25	237.54	223.44	-	5.29	5.17	5.55	5.49	-
3555	Printing trades machinery	275.52	271.97	294.50	281.15	-	6.56	6.46	6.77	6.71	-
356	General industrial machinery	278.78	261.55	303.88	292.86	-	6.75	6.49	7.10	7.04	-
3561	Pumps and pumping equipment	273.77	257.15	300.61	284.82	-	6.71	6.51	7.04	6.93	-
3562	Ball and roller bearings	278.51	261.87	308.74	304.98	-	6.76	6.45	7.18	7.21	-
3563	Air and gas compressors	295.95	276.97	312.06	287.43	-	6.98	6.69	7.36	7.15	-
3564	Blowers and fans	247.86	226.58	270.30	261.84	-	6.12	5.87	6.36	6.34	-
3566	Speed changers, drives, and gears	311.47	291.87	343.99	323.51	-	7.21	6.90	7.73	7.42	-
3568	Power transmission equipment, nec	271.83	251.14	299.64	284.96	-	6.55	6.31	6.92	6.85	-
357	Office and computing machines	231.01	218.14	247.66	237.89	-	5.58	5.44	5.80	5.76	-
3573	Electronic computing equipment	231.16	222.36	247.68	240.93	-	5.57	5.45	5.76	5.75	-
358	Refrigeration and service machinery	252.77	232.46	273.84	256.31	-	6.15	5.93	6.52	6.44	-
3585	Refrigeration and heating equipment	259.79	238.99	283.41	264.66	-	6.26	6.02	6.70	6.60	-
359	Misc. machinery, except electrical	276.02	254.61	304.10	292.75	-	6.51	6.21	6.88	6.84	-
3592	Carburetors, pistons, rings, valves	317.58	295.08	372.67	356.51	-	7.49	7.25	7.98	7.87	-
3599	Machinery, except electrical, nec	268.82	247.42	292.15	281.54	-	6.34	6.02	6.67	6.64	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	234.95	222.44	251.93	246.02	\$247.44	5.83	5.66	6.10	6.12	\$6.14
361	Electric distributing equipment	235.97	226.69	254.62	249.08	-	5.87	5.71	6.18	6.15	-
3612	Transformers	222.75	210.41	239.71	240.77	-	5.50	5.30	5.79	5.76	-
3613	Switchgear and switchboard apparatus	247.38	240.58	268.79	255.84	-	6.20	6.06	6.54	6.51	-
362	Electrical industrial apparatus	239.76	227.13	258.55	256.03	-	5.92	5.75	6.23	6.26	-
3621	Motors and generators	246.04	234.04	263.91	261.94	-	6.06	5.94	6.39	6.42	-
3622	Industrial controls	219.70	202.37	244.02	239.13	-	5.52	5.27	5.88	5.89	-
363	Household appliances	231.02	215.04	246.44	243.36	-	5.79	5.60	6.07	6.13	-
3632	Household refrigerators and freezers	250.72	238.79	267.86	263.48	-	6.13	5.94	6.47	6.62	-
3633	Household laundry equipment	268.03	248.54	299.71	286.31	-	6.82	6.61	7.31	7.23	-
3634	Electric housewares and fans	198.28	184.69	204.29	209.08	-	4.92	4.76	5.12	5.24	-
364	Electric lighting and wiring equipment	219.09	203.81	234.58	225.15	-	5.45	5.28	5.68	5.70	-
3641	Electric lamps	242.90	225.50	270.57	239.77	-	5.91	5.68	6.22	6.07	-
3643	Current-carrying wiring devices	204.93	192.76	212.74	211.20	-	5.06	4.88	5.24	5.32	-
3644	Noncurrent-carrying wiring devices	220.30	205.90	236.55	220.99	-	5.48	5.39	5.70	5.74	-
3645	Residential lighting fixtures	165.38	149.13	172.28	164.78	-	4.41	4.31	4.51	4.49	-
365	Radio and TV receiving equipment	208.50	194.77	217.67	214.44	-	5.36	5.18	5.61	5.78	-
3651	Radio and TV receiving sets	212.46	204.44	223.10	217.04	-	5.49	5.38	5.75	5.93	-
366	Communication equipment	272.14	259.77	293.41	284.28	-	6.67	6.43	6.92	6.90	-
3661	Telephone and telegraph apparatus	267.85	259.85	294.11	286.53	-	6.73	6.48	7.07	7.04	-
3662	Radio and TV communication equipment	275.39	259.43	292.15	282.20	-	6.62	6.39	6.81	6.80	-
367	Electronic components and accessories	197.80	187.07	210.74	207.95	-	4.91	4.76	5.14	5.16	-
3671-3	Electronic tubes	259.56	251.64	272.43	266.68	-	6.18	6.02	6.41	6.38	-
3674	Semiconductors and related devices	222.50	212.53	239.67	237.06	-	5.44	5.34	5.72	5.74	-
3679	Electronic components, nec	181.89	171.60	195.43	190.96	-	4.57	4.40	4.79	4.81	-
369	Misc. electrical equipment and supplies	284.26	271.32	312.38	299.80	-	6.95	6.80	7.35	7.33	-
3691	Storage batteries	293.53	294.20	316.09	299.88	-	7.09	6.89	7.42	7.35	-
3694	Engine electrical equipment	316.65	301.02	350.60	335.76	-	7.78	7.64	8.23	8.27	-
37	TRANSPORTATION EQUIPMENT	333.01	307.40	373.80	349.03	350.27	7.91	7.59	8.40	8.33	8.32
371	Motor vehicles and equipment	367.63	334.55	417.19	379.01	-	8.51	8.14	9.03	8.96	-
3711	Motor vehicles and car bodies	388.40	347.99	451.23	395.85	-	8.97	8.55	9.56	9.47	-
3713	Truck and bus bodies	271.48	255.96	284.28	270.68	-	6.77	6.58	6.90	6.87	-
3714	Motor vehicle parts and accessories	369.67	337.71	414.35	388.02	-	8.44	8.06	8.93	8.92	-
3715	Truck trailers	225.44	219.45	234.02	217.99	-	5.65	5.50	5.97	5.86	-
372	Aircraft and parts	318.19	301.07	346.62	340.13	-	7.54	7.22	7.95	7.91	-
3721	Aircraft	324.17	305.44	350.78	348.39	-	7.70	7.36	8.12	8.14	-
3724	Aircraft engines and engine parts	325.26	308.84	362.75	351.35	-	7.80	7.46	8.32	8.19	-
3728	Aircraft equipment, nec	295.24	282.01	317.11	304.23	-	6.85	6.62	7.11	7.01	-
373	Ship and boat building and repairing	256.35	235.99	280.78	274.53	-	6.59	6.31	6.95	6.95	-
3731	Shipbuilding and repairing	271.13	248.42	299.55	292.59	-	6.97	6.66	7.36	7.37	-
3732	Boat building and repairing	207.37	190.01	218.28	214.95	-	5.29	5.04	5.54	5.54	-
374	Railroad equipment	320.00	308.11	358.26	345.87	-	8.02	7.82	8.53	8.54	-

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	41.5	40.3	42.9	40.8	--	3.2	3.0	3.4	2.5	--
3532	Mining machinery	41.8	39.3	44.1	43.4	--	3.5	2.4	4.8	3.9	--
3533	Oil field machinery	44.1	43.3	46.1	44.3	--	5.4	4.8	6.4	6.2	--
3535	Conveyers and conveying equipment	41.9	39.8	43.4	41.6	--	4.2	3.4	5.3	4.2	--
3537	Industrial trucks and tractors	40.9	39.7	42.8	41.2	--	3.5	3.5	4.2	3.6	--
354	Metalworking machinery	44.0	43.4	45.4	44.2	--	5.9	5.9	6.8	6.2	--
3541	Machine tools, metal cutting types	44.8	44.1	46.1	45.0	--	6.4	6.0	7.6	6.6	--
3542	Machine tools, metal forming types	43.0	41.9	44.8	42.3	--	6.2	5.6	8.8	7.1	--
3544	Special dies, tools, jigs, and fixtures	45.2	45.0	46.9	45.7	--	7.0	7.4	7.6	7.3	--
3545	Machine tool accessories	42.8	42.1	43.5	43.1	--	4.8	4.4	5.8	5.4	--
3546	Power driven hand tools	40.8	39.9	42.5	39.3	--	3.5	3.8	4.5	2.7	--
355	Special industry machinery	41.5	40.7	43.0	41.5	--	3.9	3.5	4.8	4.0	--
3551	Food products machinery	41.5	40.2	43.1	41.8	--	3.4	2.9	4.4	3.8	--
3552	Textile machinery	40.7	39.7	42.8	40.7	--	3.1	2.7	4.1	3.0	--
3555	Printing trades machinery	42.0	42.1	43.5	41.9	--	4.3	4.3	5.1	4.7	--
356	General industrial machinery	41.3	40.3	42.8	41.6	--	4.1	3.8	5.2	4.2	--
3561	Pumps and pumping equipment	40.8	39.5	42.7	41.1	--	3.8	3.4	4.5	3.7	--
3562	Ball and roller bearings	41.2	40.6	43.0	42.3	--	4.7	4.2	6.1	5.6	--
3563	Air and gas compressors	42.4	41.4	42.4	40.2	--	4.3	4.7	4.3	2.7	--
3564	Blowers and fans	40.5	38.6	42.5	41.3	--	3.5	2.7	4.3	3.6	--
3566	Speed changers, drives, and gears	43.2	42.3	44.5	43.6	--	4.8	4.2	7.1	5.2	--
3568	Power transmission equipment, nec	41.5	39.8	43.3	41.6	--	4.3	3.8	5.6	4.7	--
357	Office and computing machines	41.4	40.1	42.7	41.3	--	3.2	2.8	3.5	2.8	--
3573	Electronic computing equipment	41.5	40.8	43.0	41.9	--	3.2	3.0	3.5	3.1	--
358	Refrigeration and service machinery	41.1	39.2	42.0	39.8	--	3.4	3.1	3.7	2.9	--
3585	Refrigeration and heating equipment	41.5	39.7	42.3	40.1	--	3.6	3.3	3.9	3.3	--
359	Misc. machinery, except electrical	42.4	41.0	44.2	42.8	--	4.8	4.7	5.5	5.0	--
3592	Carburetors, pistons, rings, valves	42.4	40.7	46.7	45.3	--	3.7	3.3	4.6	5.3	--
3599	Machinery, except electrical, nec	42.4	41.1	43.8	42.4	--	5.1	4.9	5.7	5.0	--
36	ELECTRIC AND ELECTRONIC EQUIPMENT	40.3	39.3	41.3	40.2	40.3	2.8	2.5	3.3	2.8	--
361	Electric distributing equipment	40.2	39.7	41.2	40.5	--	2.7	2.4	3.6	2.7	--
3612	Transformers	40.5	39.7	41.4	41.8	--	2.7	2.1	3.8	3.2	--
3613	Switchgear and switchboard apparatus	39.9	39.7	41.1	39.3	--	2.8	2.6	3.4	2.2	--
362	Electrical industrial apparatus	40.5	39.5	41.5	40.9	--	3.0	2.8	3.6	3.2	--
3621	Motors and generators	40.6	39.4	41.3	40.8	--	3.2	3.2	3.6	3.4	--
3622	Industrial controls	39.8	38.4	41.5	40.6	--	2.2	1.5	3.2	2.2	--
363	Household appliances	39.9	38.4	40.6	39.7	--	2.2	1.8	2.7	2.2	--
3632	Household refrigerators and freezers	40.9	40.2	41.4	39.8	--	1.7	1.2	1.8	1.7	--
3633	Household laundry equipment	39.3	37.6	41.0	39.6	--	1.6	1.6	3.0	.8	--
3634	Electric housewares and fans	40.3	38.8	39.9	39.9	--	2.7	1.8	2.6	2.6	--
364	Electric lighting and wiring equipment	40.2	38.6	41.3	39.5	--	2.8	2.3	3.2	3.0	--
3641	Electric lamps	41.1	39.7	43.5	39.5	--	2.6	2.4	3.5	3.2	--
3643	Current-carrying wiring devices	40.5	39.5	40.6	39.7	--	3.0	2.4	3.0	2.6	--
3644	Noncurrent-carrying wiring devices	40.2	38.2	41.5	38.5	--	2.9	2.0	3.1	2.8	--
3645	Residential lighting fixtures	37.5	34.6	38.2	36.7	--	1.7	1.2	2.1	1.5	--
365	Radio and TV receiving equipment	38.9	37.6	38.8	37.1	--	2.0	1.8	2.0	1.7	--
3651	Radio and TV receiving sets	38.7	38.0	38.8	36.6	--	1.6	1.5	1.9	1.6	--
366	Communication equipment	40.8	40.4	42.4	41.2	--	2.9	2.6	3.5	2.7	--
3661	Telephone and telegraph apparatus	39.8	40.1	41.6	40.7	--	2.7	2.4	3.7	3.1	--
3662	Radio and TV communication equipment	41.6	40.6	42.9	41.5	--	3.0	2.8	3.4	2.4	--
367	Electronic components and accessories	40.2	39.3	41.0	40.3	--	2.8	2.4	3.2	2.9	--
3671-3	Electronic tubes	42.0	41.8	42.5	44.8	--	2.4	2.2	2.7	2.0	--
3674	Semiconductors and related devices	40.9	39.8	41.9	41.3	--	3.4	2.9	4.0	3.5	--
3679	Electronic components, nec	39.8	39.0	40.8	39.7	--	2.7	2.2	3.2	2.8	--
369	Misc. electrical equipment and supplies	40.9	39.9	42.5	40.9	--	3.8	4.1	3.9	3.8	--
3691	Storage batteries	41.4	42.7	42.6	40.8	--	4.3	5.0	5.0	4.4	--
3694	Engine electrical equipment	40.7	39.4	42.6	40.6	--	4.1	4.6	3.7	3.9	--
37	TRANSPORTATION EQUIPMENT	42.1	40.5	44.5	41.9	42.1	5.0	4.2	5.6	5.0	--
371	Motor vehicles and equipment	43.2	41.1	46.2	42.3	--	6.1	5.1	6.6	6.0	--
3711	Motor vehicles and car bodies	43.3	40.7	47.2	41.8	--	6.4	5.1	7.1	6.0	--
3713	Truck and bus bodies	40.1	38.9	41.2	39.4	--	3.7	3.3	4.4	4.4	--
3714	Motor vehicle parts and accessories	43.8	41.9	46.4	43.5	--	6.3	5.5	6.7	6.5	--
3715	Truck trailers	39.9	39.9	39.2	37.2	--	3.1	3.2	3.2	1.8	--
372	Aircraft and parts	42.2	41.7	43.6	43.0	--	4.3	3.8	5.4	4.5	--
3721	Aircraft	42.1	41.5	43.2	42.8	--	3.6	3.2	4.4	3.9	--
3724	Aircraft engines and engine parts	41.7	41.4	43.6	42.9	--	5.0	4.1	6.4	5.2	--
3728	Aircraft equipment, nec	43.1	42.6	44.6	43.4	--	5.3	5.0	6.4	5.4	--
373	Ship and boat building and repairing	38.9	37.4	40.4	39.5	--	2.7	2.2	3.1	3.2	--
3731	Ship building and repairing	38.9	37.3	40.7	39.7	--	2.7	2.2	3.2	3.3	--
3732	Boat building and repairing	39.2	37.7	39.4	38.8	--	2.7	2.3	2.8	2.8	--
374	Railroad equipment	39.9	39.4	42.0	40.5	--	3.6	3.5	5.0	4.2	--

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
	TRANSPORTATION EQUIPMENT—Continued										
376	Guided missiles, space vehicles, parts	\$316.26	\$308.91	\$353.02	\$342.78	—	\$7.53	\$7.59	\$7.88	\$7.88	—
3761	Guided missiles and space vehicles	315.34	314.74	356.53	339.75	—	7.71	7.81	8.14	8.07	—
379	Miscellaneous transportation equipment	220.64	203.29	235.48	219.06	—	5.60	5.45	5.80	5.78	—
3792	Travel trailers and campers	192.02	174.12	193.16	192.62	—	5.04	4.85	5.11	5.22	—
38	INSTRUMENTS AND RELATED PRODUCTS	233.13	221.05	248.12	242.98	\$247.64	5.70	5.54	5.95	5.97	\$6.04
381	Engineering and scientific instruments	256.10	243.69	275.06	254.59	—	6.04	5.83	6.28	6.24	—
382	Measuring and controlling devices	235.42	221.36	251.58	246.82	—	5.77	5.59	5.99	6.02	—
3822	Environmental controls	220.25	209.08	234.27	229.20	—	5.52	5.32	5.70	5.73	—
3823	Process control instruments	244.36	224.47	266.30	254.37	—	5.86	5.64	6.15	6.10	—
3825	Instruments to measure electricity	246.38	237.33	262.48	264.81	—	5.98	5.86	6.22	6.29	—
383	Optical instruments and lenses	267.25	241.78	291.84	281.60	—	6.06	5.84	6.40	6.40	—
384	Medical instruments and supplies	195.91	185.89	206.96	203.43	—	4.91	4.73	5.11	5.15	—
3841	Surgical and medical instruments	192.64	186.68	200.31	201.87	—	4.71	4.52	4.85	4.96	—
3842	Surgical appliances and supplies	199.36	182.85	212.93	205.78	—	5.06	4.85	5.31	5.29	—
385	Ophthalmic goods	178.16	171.88	184.24	183.61	—	4.58	4.43	4.70	4.72	—
386	Photographic equipment and supplies	305.11	298.57	324.70	324.02	—	7.23	7.16	7.64	7.66	—
387	Watches, clocks, and watchcases	174.05	155.52	183.81	178.26	—	4.44	4.32	4.63	4.63	—
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	181.97	171.75	191.00	189.42	190.19	4.69	4.58	4.86	4.92	4.94
391	Jewelry, silverware, and plated ware	184.03	177.19	195.42	189.24	—	4.78	4.70	4.96	4.98	—
3911	Jewelry, precious metal	179.65	179.35	192.17	182.53	—	4.74	4.77	4.94	4.92	—
393	Musical instruments	178.48	159.59	189.34	184.94	—	4.53	4.29	4.71	4.73	—
394	Toys and sporting goods	165.46	154.34	172.54	172.97	—	4.32	4.24	4.47	4.54	—
3942, 4	Dolls, games, toys, and children's vehicles	157.25	143.85	161.41	169.86	—	4.16	4.11	4.27	4.47	—
3949	Sporting and athletic goods, nec	172.66	161.57	180.71	175.34	—	4.45	4.32	4.61	4.59	—
395	Pens, pencils, office and art supplies	195.29	184.40	207.74	201.28	—	4.81	4.61	5.03	5.07	—
396	Costume jewelry and notions	152.28	144.47	154.50	159.05	—	4.05	3.98	4.12	4.23	—
3961	Costume jewelry	140.21	129.87	138.52	146.40	—	3.81	3.70	3.88	4.00	—
399	Miscellaneous manufactures	206.85	193.93	218.95	215.50	—	5.25	5.09	5.46	5.50	—
3993	Signs and advertising displays	216.06	200.19	231.73	227.57	—	5.54	5.44	5.75	5.85	—
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	230.84	220.13	243.21	240.95	238.90	5.80	5.63	6.02	6.10	6.11
201	Meat products	232.46	223.47	244.21	247.95	—	5.90	5.73	6.09	6.23	—
2011	Meat packing plants	291.87	283.82	307.33	318.33	—	7.05	6.79	7.30	7.49	—
2013	Sausages and other prepared meats	263.59	246.77	283.50	272.30	—	6.69	6.46	7.00	7.00	—
2016	Poultry dressing plants	139.47	127.08	147.75	145.36	—	3.79	3.60	3.94	3.95	—
202	Dairy products	241.70	230.45	251.08	250.92	—	5.81	5.68	6.05	6.12	—
2022	Cheese, natural and processed	219.49	205.93	224.14	220.99	—	5.46	5.24	5.66	5.74	—
2026	Fluid milk	253.04	244.39	264.12	264.59	—	5.94	5.71	6.20	6.27	—
203	Preserved fruits and vegetables	195.32	181.76	201.89	200.93	—	5.06	4.86	5.19	5.26	—
2032	Canned specialties	236.33	220.42	255.73	246.33	—	5.75	5.35	6.06	5.95	—
2033	Canned fruits and vegetables	196.48	177.50	198.53	198.68	—	5.13	5.00	5.13	5.27	—
2037	Frozen fruits and vegetables	181.16	173.28	181.28	177.12	—	4.78	4.56	4.86	4.92	—
204	Grain mill products	274.24	259.68	297.45	286.89	—	6.29	6.11	6.61	6.55	—
2041	Flour and other grain mill products	307.10	284.80	331.57	302.40	—	6.72	6.40	7.10	6.92	—
2048	Prepared feeds, nec	221.19	210.38	237.89	238.43	—	5.05	4.95	5.31	5.37	—
205	Bakery products	233.22	220.80	242.35	234.38	—	5.98	5.75	6.23	6.25	—
2051	Bread, cake, and related products	232.80	219.80	240.48	232.87	—	6.00	5.75	6.23	6.26	—
2052	Cookies and crackers	233.84	227.73	248.80	240.63	—	5.92	5.78	6.22	6.25	—
206	Sugar and confectionery products	220.30	205.90	227.03	226.98	—	5.62	5.39	5.69	5.82	—
2061-3	Cane and beet sugar	265.86	241.72	272.24	271.08	—	6.63	6.23	6.56	6.76	—
2065	Confectionery products	191.46	180.21	193.72	194.43	—	4.96	4.78	4.98	5.13	—
207	Fats and oils	263.26	255.20	279.64	278.57	—	6.08	5.80	6.27	6.36	—
208	Beverages	277.26	261.22	292.54	281.32	—	6.88	6.63	7.17	7.14	—
2082	Malt beverages	391.53	367.59	417.31	406.98	—	9.30	8.69	9.66	9.69	—
2086	Bottled and canned soft drinks	204.85	188.38	209.09	204.34	—	5.16	5.01	5.28	5.28	—
209	Misc. foods and kindred products	192.28	182.66	206.31	199.93	—	5.06	4.95	5.29	5.36	—
21	TOBACCO MANUFACTURES	239.13	223.11	245.22	233.85	235.21	6.26	6.03	6.32	6.46	6.57
211	Cigarettes	284.87	270.72	297.14	271.83	—	7.38	7.05	7.58	7.53	—
22	TEXTILE MILL PRODUCTS	173.32	163.88	182.78	179.95	179.55	4.29	4.17	4.48	4.51	4.50
221	Weaving mills, cotton	181.60	175.39	198.05	196.98	—	4.44	4.32	4.66	4.69	—
222	Weaving mills, synthetics	188.48	177.42	198.13	196.30	—	4.52	4.37	4.74	4.73	—
223	Weaving and finishing mills, wool	180.81	170.68	189.77	186.91	—	4.41	4.31	4.54	4.57	—
224	Narrow fabric mills	159.60	149.38	167.67	169.68	—	4.00	3.89	4.14	4.20	—
225	Knitting mills	153.23	140.48	157.80	154.24	—	3.98	3.87	4.12	4.18	—

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
	TRANSPORTATION EQUIPMENT—Continued										
376	Guided missiles, space vehicles, parts	42.0	40.7	44.8	43.5	—	4.2	3.4	5.8	5.0	—
3761	Guided missiles and space vehicles	40.9	40.3	43.8	42.1	—	3.4	3.1	5.1	4.0	—
379	Miscellaneous transportation equipment	39.4	37.3	40.6	37.9	—	2.5	1.8	1.9	1.6	—
3792	Travel trailers and campers	38.1	35.9	37.8	36.9	—	2.4	1.7	1.3	1.2	—
38	INSTRUMENTS AND RELATED PRODUCTS	40.9	39.9	41.7	40.7	41.0	2.6	2.3	3.1	2.6	—
381	Engineering and scientific instruments	42.4	41.8	45.8	40.8	—	3.3	2.8	4.0	3.1	—
382	Measuring and controlling devices	40.8	39.6	42.0	41.0	—	2.4	2.4	3.0	2.5	—
3822	Environmental controls	39.9	39.3	41.1	40.0	—	2.0	2.3	2.7	1.9	—
3823	Process control instruments	41.7	39.8	43.3	41.7	—	2.9	2.4	4.4	3.2	—
3825	Instruments to measure electricity	41.2	40.5	42.2	42.1	—	2.1	2.5	2.3	2.4	—
383	Optical instruments and lenses	44.1	41.4	45.6	44.0	—	3.6	2.8	4.5	3.3	—
384	Medical instruments and supplies	39.9	39.3	40.5	39.5	—	2.3	2.0	2.9	2.4	—
3841	Surgical and medical instruments	40.9	41.3	41.3	40.7	—	2.7	2.3	3.7	3.6	—
3842	Surgical appliances and supplies	39.4	37.7	40.1	38.9	—	2.2	1.9	2.5	1.7	—
385	Ophthalmic goods	38.9	38.8	39.2	38.9	—	1.7	1.4	1.9	1.9	—
386	Photographic equipment and supplies	42.2	41.7	42.5	42.3	—	3.4	3.0	3.6	3.4	—
387	Watches, clocks, and watchcases	39.2	36.0	39.7	38.5	—	1.9	1.3	2.0	1.5	—
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	38.8	37.5	39.3	38.5	38.5	2.4	1.9	2.5	1.9	—
391	Jewelry, silverware, and plated ware	38.5	37.7	39.4	38.0	—	2.7	2.2	3.1	2.0	—
3911	Jewelry, precious metal	37.9	37.6	38.9	37.1	—	2.8	2.5	3.2	2.1	—
393	Musical instruments	39.4	37.2	40.2	39.1	—	1.9	1.4	1.9	1.2	—
394	Toys and sporting goods	38.3	36.4	38.6	38.1	—	1.8	1.3	2.0	1.5	—
3942, 4	Dolls, games, toys, and children's vehicles	37.8	35.0	37.8	38.0	—	1.8	1.1	1.7	1.6	—
3949	Sporting and athletic goods, nec	38.8	37.4	39.2	38.2	—	1.8	1.4	2.3	1.5	—
395	Pens, pencils, office and art supplies	40.6	40.0	41.3	39.7	—	2.7	2.3	3.0	1.8	—
396	Costume jewelry and notions	37.6	36.3	37.5	37.6	—	2.5	2.2	2.3	1.9	—
3961	Costume jewelry	36.8	35.1	35.7	36.6	—	2.4	1.9	2.0	1.5	—
399	Miscellaneous manufactures	39.4	38.1	40.1	39.1	—	2.6	2.1	2.6	2.3	—
3993	Signs and advertising displays	39.0	36.8	40.3	38.9	—	2.4	1.9	2.7	2.4	—
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	39.8	39.1	40.4	39.5	39.1	4.0	3.8	4.0	3.7	—
201	Meat products	39.4	39.0	40.1	39.8	—	3.9	3.9	4.1	4.1	—
2011	Meat packing plants	41.4	41.8	42.1	42.5	—	4.7	4.8	4.9	5.4	—
2013	Sausages and other prepared meats	39.4	38.2	40.5	38.9	—	3.5	3.1	4.2	3.4	—
2016	Poultry dressing plants	36.8	35.3	37.5	36.8	—	3.0	3.0	3.1	2.9	—
202	Dairy products	41.6	41.3	41.5	41.0	—	4.2	3.9	3.9	3.7	—
2022	Cheese, natural and processed	40.2	39.3	39.6	38.5	—	3.8	3.5	3.2	2.8	—
2026	Fluid milk	42.6	42.8	42.6	42.2	—	4.4	4.4	4.3	4.3	—
203	Preserved fruits and vegetables	38.6	37.4	38.9	38.2	—	3.7	3.0	3.1	2.9	—
2032	Canned specialties	41.1	41.2	42.2	41.4	—	5.1	5.0	6.4	5.9	—
2033	Canned fruits and vegetables	38.3	35.5	38.7	37.7	—	4.3	2.3	3.0	2.5	—
2037	Frozen fruits and vegetables	37.9	38.0	37.3	36.0	—	3.2	2.9	2.7	2.5	—
204	Grain mill products	43.6	42.5	45.0	43.8	—	6.3	6.3	6.8	6.7	—
2041	Flour and other grain mill products	45.7	44.5	46.7	43.7	—	6.9	6.3	7.8	6.2	—
2048	Prepared feeds, nec	43.8	42.5	44.8	44.4	—	6.6	6.6	6.8	7.1	—
205	Bakery products	39.0	38.4	38.9	37.5	—	3.4	2.9	3.3	2.7	—
2051	Bread, cake, and related products	38.8	38.1	38.6	37.2	—	3.7	3.2	3.6	3.0	—
2052	Cookies and crackers	39.5	39.4	40.0	38.5	—	2.3	2.0	2.2	2.0	—
206	Sugar and confectionery products	39.2	38.2	39.9	39.0	—	3.1	3.4	3.6	2.9	—
2061-3	Cane and beet sugar	40.1	38.8	41.5	40.1	—	4.3	4.7	5.0	4.4	—
2065	Confectionery products	38.6	37.7	38.9	37.9	—	2.5	2.8	3.1	2.3	—
207	Fats and oils	43.3	44.0	44.6	43.8	—	5.9	6.2	6.2	6.2	—
208	Beverages	40.3	39.4	40.8	39.4	—	4.1	3.6	3.9	3.4	—
2082	Malt beverages	42.1	42.3	43.2	42.0	—	5.3	4.6	5.7	5.1	—
2086	Bottled and canned soft drinks	39.7	37.6	39.6	38.7	—	3.9	2.9	3.3	2.8	—
209	Misc. foods and kindred products	38.0	36.9	39.0	37.3	—	3.6	3.2	3.5	2.8	—
21	TOBACCO MANUFACTURES	38.2	37.0	38.8	36.2	35.8	2.1	2.1	2.0	.9	—
211	Cigarettes	38.6	38.4	39.2	36.1	—	2.3	2.4	2.3	.6	—
22	TEXTILE MILL PRODUCTS	40.4	39.3	40.8	39.9	39.9	3.6	3.4	3.8	3.5	—
221	Weaving mills, cotton	40.9	40.6	42.5	42.0	—	4.0	4.2	4.7	4.6	—
222	Weaving mills, synthetics	41.7	40.6	41.8	41.5	—	4.0	3.4	4.4	4.1	—
223	Weaving and finishing mills, wool	41.0	39.6	41.8	40.9	—	3.8	3.3	4.0	3.8	—
224	Narrow fabric mills	39.9	38.4	40.5	40.4	—	3.0	2.8	2.8	2.8	—
225	Knitting mills	38.5	36.3	38.3	36.9	—	2.8	2.2	2.6	2.1	—

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	\$144.74	\$131.77	\$156.82	\$149.60	-	\$3.74	\$3.62	\$3.96	\$4.00	-
2252	Hosiery, nec	139.13	124.51	141.66	139.04	-	3.74	3.63	3.86	3.95	-
2253	Knit outerwear mills	146.55	134.37	147.02	145.08	-	3.75	3.85	4.05	4.11	-
2254	Knit underwear mills	141.00	129.17	145.92	144.08	-	3.74	3.68	3.84	3.98	-
2257	Circular knit fabric mills	179.11	166.57	186.18	180.18	-	4.39	4.26	4.53	4.55	-
226	Textile finishing, except wool	190.03	178.49	201.12	192.08	-	4.59	4.44	4.80	4.79	-
2261	Finishing plants, cotton	192.51	181.40	209.23	197.32	-	4.65	4.49	4.90	4.86	-
2262	Finishing plants, synthetics	199.80	189.31	210.58	201.90	-	4.78	4.64	4.99	5.01	-
227	Floor covering mills	185.15	170.28	197.66	189.31	-	4.44	4.30	4.64	4.64	-
228	Yarn and thread mills	164.02	156.38	169.29	167.96	-	4.03	3.89	4.18	4.22	-
2281	Yarn mills, except wool	165.62	161.02	170.96	170.07	-	4.02	3.88	4.18	4.22	-
2282	Throwing and winding mills	155.19	142.88	162.41	157.51	-	3.87	3.77	4.04	4.07	-
229	Miscellaneous textile goods	193.99	185.54	205.92	205.84	-	4.72	4.57	4.95	4.96	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	140.26	127.44	145.71	144.28	\$145.88	3.94	3.85	4.07	4.17	\$4.18
231	Men's and boys' suits and coats	171.96	149.90	184.02	177.91	-	4.79	4.57	4.96	5.04	-
232	Men's and boys' furnishings	127.80	116.06	132.48	132.60	-	3.59	3.56	3.68	3.85	-
2321	Men's and boys' shirts and nightwear	125.96	114.87	129.95	132.40	-	3.47	3.46	3.57	3.74	-
2327	Men's and boys' separate trousers	129.13	117.12	134.55	134.01	-	3.70	3.66	3.79	3.93	-
2328	Men's and boys' work clothing	125.67	113.10	132.84	135.66	-	3.53	3.48	3.60	3.80	-
233	Women's and misses' outerwear	132.89	122.50	134.40	136.12	-	3.92	3.84	4.00	4.10	-
2331	Women's and misses' blouses and waists	126.98	119.39	130.13	130.37	-	3.67	3.64	3.75	3.88	-
2335	Women's and misses' dresses	131.53	120.12	131.24	132.09	-	4.01	3.90	4.14	4.22	-
2337	Women's and misses' suits and coats	141.46	130.29	141.71	145.06	-	4.21	4.11	4.23	4.33	-
2339	Women's and misses' outerwear, nec	133.41	123.05	137.00	138.60	-	3.79	3.74	3.87	3.96	-
234	Women's and children's undergarments	127.81	116.88	128.85	133.28	-	3.57	3.51	3.65	3.83	-
2341	Women's and children's underwear	124.96	114.51	126.02	130.79	-	3.51	3.47	3.58	3.78	-
2342	Brassieres and allied garments	139.81	126.25	140.30	143.87	-	3.82	3.67	3.93	4.03	-
236	Children's outerwear	128.16	116.57	131.04	133.10	-	3.55	3.49	3.65	3.76	-
2361	Children's dresses and blouses	126.02	119.02	129.24	132.45	-	3.52	3.46	3.59	3.71	-
238	Misc. apparel and accessories	140.22	126.96	143.89	142.00	-	3.80	3.68	3.91	4.00	-
239	Misc. fabricated textile products	175.03	160.00	192.06	177.74	-	4.57	4.42	4.85	4.83	-
2391	Curtains and draperies	127.33	114.92	135.55	127.76	-	3.46	3.37	3.53	3.64	-
2392	House furnishing, nec	148.99	136.13	158.77	148.10	-	3.89	3.75	4.04	4.08	-
2396	Automotive and apparel trimmings	298.34	272.88	349.08	300.69	-	7.44	7.20	7.88	7.78	-
26	PAPER AND ALLIED PRODUCTS	279.71	264.59	294.69	289.68	289.17	6.52	6.27	6.79	6.80	6.82
261, 2, 6	Paper and pulp mills	334.80	314.26	355.87	353.21	-	7.44	7.11	7.77	7.78	-
262	Paper mills, except building paper	336.58	315.06	358.20	357.88	-	7.43	7.08	7.77	7.78	-
263	Paperboard mills	340.99	328.70	352.72	355.01	-	7.68	7.37	8.09	8.05	-
264	Misc. converted paper products	238.79	228.58	254.75	249.28	-	5.81	5.63	6.08	6.08	-
2641	Paper coating and glazing	288.61	274.34	303.35	298.47	-	6.65	6.44	6.91	6.83	-
2642	Envelopes	217.48	208.03	236.88	232.15	-	5.41	5.24	5.64	5.69	-
2643	Bags, except textile bags	229.22	218.15	241.83	237.64	-	5.55	5.36	5.69	5.74	-
265	Paperboard containers and boxes	247.13	229.75	261.94	251.32	-	5.87	5.59	6.12	6.10	-
2651	Folding paperboard boxes	260.04	237.80	279.59	257.71	-	6.09	5.73	6.34	6.24	-
2653	Corrugated and solid fiber boxes	260.71	243.53	276.49	265.82	-	6.12	5.84	6.43	6.39	-
2654	Sanitary food containers	227.15	214.40	237.42	233.95	-	5.50	5.32	5.68	5.72	-
27	PRINTING AND PUBLISHING	243.27	232.94	255.18	248.20	247.59	6.47	6.33	6.68	6.69	6.62
271	Newspapers	234.95	226.46	244.64	236.91	-	6.87	6.76	7.03	7.03	-
272	Periodicals	226.00	224.58	238.23	236.07	-	5.87	5.91	6.14	6.10	-
273	Books	225.72	215.90	235.79	228.65	-	5.70	5.55	5.88	5.97	-
2731	Book publishing	217.71	207.34	221.69	218.86	-	5.47	5.33	5.57	5.67	-
2732	Book printing	233.25	224.45	248.65	238.01	-	5.92	5.77	6.17	6.28	-
274	Miscellaneous publishing	209.30	200.91	221.77	208.27	-	5.75	5.55	6.01	5.90	-
275	Commercial printing	258.32	245.70	270.18	264.34	-	6.69	6.50	6.91	6.92	-
2751	Commercial printing, letterpress	242.69	232.47	250.39	244.94	-	6.32	6.15	6.47	6.48	-
2752	Commercial printing, lithographic	268.88	253.42	283.22	276.43	-	6.93	6.74	7.17	7.18	-
276	Manifold business forms	251.33	240.59	275.63	268.13	-	6.13	5.97	6.41	6.43	-
278	Blankbooks and bookbinding	193.83	185.82	205.20	201.89	-	4.97	4.89	5.13	5.19	-
279	Printing trade services	322.87	306.56	335.62	328.50	-	8.43	8.11	8.74	8.76	-
28	CHEMICALS AND ALLIED PRODUCTS	293.72	280.01	307.94	304.83	304.83	7.01	6.78	7.28	7.31	7.31
281	Industrial inorganic chemicals	320.80	304.20	336.23	329.28	-	7.62	7.33	7.93	7.84	-
2819	Industrial inorganic chemicals, nec	315.40	298.48	335.16	324.21	-	7.60	7.28	7.98	7.85	-
282	Plastics materials and synthetics	291.29	277.97	303.17	301.02	-	6.87	6.65	7.10	7.15	-
2821	Plastics materials and resins	324.75	304.73	342.32	336.69	-	7.50	7.17	7.78	7.83	-
2824	Organic fibers, noncellulosic	268.36	258.96	277.20	277.22	-	6.42	6.24	6.60	6.68	-
283	Drugs	265.15	256.66	278.94	275.72	-	6.42	6.26	6.61	6.66	-
2834	Pharmaceutical preparations	256.41	245.20	270.22	267.15	-	6.30	6.13	6.48	6.50	-

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
	TEXTILE MILL PRODUCTS—Continued										
2251	Women's hosiery, except socks	38.7	36.4	39.6	37.4	—	2.7	2.1	3.4	2.3	—
2252	Hosiery, nec	37.2	34.3	36.7	35.2	—	2.1	1.5	1.7	1.5	—
2253	Knit outerwear mills	37.1	34.9	36.3	35.3	—	2.2	1.7	1.7	1.4	—
2254	Knit underwear mills	37.7	35.1	38.0	36.2	—	2.1	1.6	2.0	1.3	—
2257	Circular knit fabric mills	40.8	39.1	41.1	39.6	—	4.5	3.1	4.1	3.6	—
226	Textile finishing, except wool	41.4	40.2	41.9	40.1	—	4.2	4.0	4.7	3.5	—
2261	Finishing plants, cotton	41.4	40.4	42.7	40.6	—	4.4	4.6	5.4	3.9	—
2262	Finishing plants, synthetics	41.8	40.8	42.2	40.3	—	4.5	3.7	5.1	3.8	—
227	Floor covering mills	41.7	39.6	42.6	40.8	—	4.4	3.8	5.1	4.3	—
228	Yarn and thread mills	40.7	40.2	40.5	39.8	—	3.7	3.7	3.4	3.2	—
2281	Yarn mills, except wool	41.2	41.5	40.9	40.3	—	4.0	4.2	3.7	3.6	—
2282	Throwing and winding mills	40.1	37.9	40.2	38.7	—	3.4	2.8	3.2	2.6	—
229	Miscellaneous textile goods	41.1	40.6	41.6	41.5	—	3.9	3.9	4.0	4.0	—
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.6	33.1	35.8	34.6	34.9	1.3	1.0	1.1	.9	—
231	Men's and boys' suits and coats	35.9	32.8	37.1	35.3	—	.8	.7	.9	.8	—
232	Men's and boys' furnishings	35.6	32.6	36.0	34.7	—	.9	.7	.9	.7	—
2321	Men's and boys' shirts and nightwear	36.3	33.2	36.4	35.4	—	1.0	.7	1.0	.8	—
2327	Men's and boys' separate trousers	34.9	32.0	35.5	34.1	—	.8	.7	.7	.5	—
2328	Men's and boys' work clothing	35.6	32.5	36.9	35.7	—	.8	.6	1.1	.8	—
233	Women's and misses' outerwear	33.9	31.9	33.6	33.2	—	1.2	1.1	1.0	.9	—
2331	Women's and misses' blouses and waists	34.6	32.8	34.7	33.6	—	1.0	.8	.9	.8	—
2335	Women's and misses' dresses	32.8	30.8	31.7	31.3	—	1.3	1.2	.9	.8	—
2337	Women's and misses' suits and coats	33.6	31.7	33.5	33.5	—	1.2	1.1	.6	.6	—
2339	Women's and misses' outerwear, nec	35.2	32.9	35.4	35.0	—	1.4	1.0	1.3	1.1	—
234	Women's and children's undergarments	35.8	33.3	35.3	34.8	—	1.0	.8	.8	.6	—
2341	Women's and children's underwear	35.6	33.0	35.2	34.6	—	1.0	.7	.9	.6	—
2342	Brassieres and allied garments	36.6	34.4	35.7	35.7	—	1.0	.9	.6	.4	—
236	Children's outerwear	36.1	33.4	35.9	35.4	—	1.5	.9	1.0	.9	—
2361	Children's dresses and blouses	35.8	34.4	36.0	35.7	—	1.9	1.7	1.2	1.1	—
238	Misc. apparel and accessories	36.9	34.5	36.8	35.5	—	1.4	.7	1.4	1.2	—
239	Misc. fabricated textile products	38.3	36.2	39.6	36.8	—	2.2	1.9	2.2	1.7	—
2391	Curtains and draperies	36.8	34.1	38.4	35.1	—	1.3	.6	1.7	1.3	—
2392	House furnishings, nec	38.3	36.3	39.3	36.3	—	1.8	1.4	2.2	1.4	—
2396	Automotive and apparel trimmings	40.1	37.9	44.3	38.6	—	3.7	3.4	3.7	3.4	—
26	PAPER AND ALLIED PRODUCTS	42.9	42.2	43.4	42.6	42.4	5.1	4.9	5.2	4.9	—
261, 2, 6	Paper and pulp mills	45.0	44.2	45.8	45.4	—	6.7	6.5	7.0	7.0	—
262	Paper mills, except building paper	45.3	44.5	46.1	46.0	—	6.8	6.6	7.2	7.3	—
263	Paperboard mills	44.4	44.6	43.6	44.1	—	7.3	7.5	7.1	7.0	—
264	Misc. converted paper products	41.1	40.6	41.9	41.0	—	3.9	3.7	3.9	3.7	—
2641	Paper coating and glazing	43.4	42.6	43.9	43.7	—	5.5	5.4	5.4	5.7	—
2642	Envelopes	40.2	39.7	42.0	40.8	—	3.2	2.8	3.8	3.3	—
2643	Bags, except textile bags	41.3	40.7	42.5	41.4	—	3.7	3.6	4.1	3.7	—
265	Paperboard containers and boxes	42.1	41.1	42.8	41.2	—	4.2	3.7	4.3	3.5	—
2651	Folding paperboard boxes	42.7	41.5	44.1	41.3	—	4.7	3.9	4.8	3.5	—
2653	Corrugated and solid fiber boxes	42.6	41.7	43.0	41.6	—	4.6	4.2	4.7	3.9	—
2654	Sanitary food containers	41.3	40.3	41.8	40.9	—	3.4	3.0	3.2	3.3	—
27	PRINTING AND PUBLISHING	37.6	36.8	38.2	37.1	37.4	3.0	2.6	3.3	2.6	—
271	Newspapers	34.2	33.5	34.8	33.7	—	2.0	1.4	2.5	1.7	—
272	Periodicals	38.5	38.0	38.8	38.7	—	3.1	3.8	3.1	3.2	—
273	Books	39.6	38.9	40.1	38.3	—	3.9	3.6	3.9	3.3	—
2731	Book publishing	39.8	38.9	39.8	38.6	—	2.9	3.0	2.4	2.3	—
2732	Book printing	39.4	38.9	40.3	37.9	—	4.8	4.2	5.3	4.3	—
274	Miscellaneous publishing	36.4	36.2	36.9	35.3	—	2.2	1.9	2.4	2.1	—
275	Commercial printing	38.6	37.8	39.1	38.2	—	3.5	3.0	3.7	3.0	—
2751	Commercial printing, letterpress	38.4	37.8	38.7	37.8	—	3.1	2.7	3.1	2.5	—
2752	Commercial printing, lithographic	38.8	37.6	39.5	38.5	—	3.8	3.1	4.1	3.3	—
276	Manifold business forms	41.0	40.3	43.0	41.7	—	3.7	3.5	4.9	4.0	—
278	Blankbooks and bookbinding	39.0	38.0	40.0	38.9	—	2.4	2.4	2.5	2.1	—
279	Printing trade service	38.3	37.8	38.4	37.5	—	3.4	2.9	3.5	2.9	—
28	CHEMICALS AND ALLIED PRODUCTS	41.9	41.3	42.3	41.7	41.7	3.5	3.4	3.5	3.4	—
281	Industrial inorganic chemicals	42.1	41.5	42.4	42.0	—	3.8	3.8	3.6	3.5	—
2819	Industrial inorganic chemicals, nec	41.5	41.0	42.0	41.3	—	3.3	3.2	3.2	2.7	—
282	Plastics materials and synthetics	42.4	41.8	42.7	42.1	—	3.4	3.2	3.3	3.4	—
2821	Plastics materials and resins	43.3	42.5	44.0	43.0	—	4.6	4.2	4.6	4.5	—
2824	Organic fibers, noncellulosic	41.8	41.5	42.0	41.5	—	2.4	2.5	2.2	2.3	—
283	Drugs	41.3	41.0	42.2	41.4	—	2.9	2.9	3.2	2.7	—
2834	Pharmaceutical preparations	40.7	40.0	41.7	41.1	—	2.8	2.6	3.2	2.7	—

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$269.73	\$257.75	\$287.29	\$284.21	—	\$6.66	\$6.46	\$6.99	\$7.07	—
2841	Soap and other detergents	370.64	352.99	389.76	398.64	—	8.54	8.19	8.96	9.06	—
2842, 3	Polishing, sanitation, and finishing preparations	241.57	230.98	253.08	249.88	—	5.98	5.76	6.28	6.31	—
2844	Toilet preparations	212.91	199.18	228.67	212.63	—	5.53	5.34	5.76	5.67	—
285	Paints and allied products	261.65	249.08	270.40	266.02	—	6.32	6.15	6.50	6.52	—
286	Industrial organic chemicals	349.78	331.33	368.51	368.51	—	8.23	7.87	8.57	8.57	—
2865	Cyclic crudes and intermediates	320.21	303.78	349.92	338.44	—	7.57	7.25	8.10	8.02	—
2861, 9	Gum, wood, and industrial organic chemicals, nec	360.40	340.98	374.95	379.74	—	8.46	8.08	8.74	8.77	—
287	Agricultural chemicals	284.99	273.06	301.46	303.74	—	6.69	6.44	7.06	7.13	—
289	Miscellaneous chemical products	272.06	259.53	288.32	282.35	—	6.54	6.33	6.80	6.82	—
29	PETROLEUM AND COAL PRODUCTS	374.96	357.43	388.07	391.09	\$394.25	8.60	8.41	8.86	8.97	\$8.94
291	Petroleum refining	401.69	388.51	411.35	420.83	—	9.32	9.12	9.50	9.63	—
295	Paving and roofing materials	303.53	252.36	324.54	302.13	—	6.57	5.91	7.04	6.82	—
30	RUBBER AND MISC. PLASTICS PRODUCTS	224.40	212.53	240.93	238.79	237.97	5.50	5.34	5.75	5.81	5.79
301	Tires and inner tubes	337.04	310.99	375.91	375.48	—	7.82	7.44	8.28	8.40	—
302	Rubber and plastics footwear	145.16	141.38	156.82	148.83	—	3.80	3.75	3.97	3.99	—
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	232.63	224.52	250.67	242.67	—	5.66	5.53	5.94	5.89	—
306	Fabricated rubber products, nec	212.63	200.94	228.10	225.91	—	5.25	5.10	5.47	5.51	—
307	Miscellaneous plastics products	203.72	192.67	216.00	213.31	—	5.03	4.89	5.23	5.28	—
31	LEATHER AND LEATHER PRODUCTS	144.69	136.04	148.77	150.23	149.82	3.90	3.80	4.01	4.15	4.15
311	Leather tanning and finishing	203.15	195.11	206.06	206.42	—	5.13	4.99	5.27	5.32	—
314	Footwear, except rubber	138.38	131.01	142.05	144.27	—	3.75	3.68	3.86	4.03	—
3143	Men's footwear, except athletic	147.04	139.07	151.60	154.24	—	3.89	3.81	4.00	4.18	—
3144	Women's footwear, except athletic	131.77	123.53	135.36	137.63	—	3.65	3.56	3.76	3.91	—
316	Luggage	151.48	140.62	160.45	155.32	—	4.15	3.95	4.36	4.40	—
317	Handbags and personal leather goods	137.26	127.07	142.13	142.63	—	3.73	3.61	3.79	3.94	—
—	TRANSPORTATION AND PUBLIC UTILITIES	302.00	289.20	314.36	306.93	309.67	7.55	7.34	7.82	7.79	7.82
	RAILROAD TRANSPORTATION:										
4011	Class 1 railroads ²	343.92	327.05	359.75	(*)	—	7.87	7.75	8.27	(*)	—
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	193.55	180.77	192.32	191.75	—	5.61	5.38	5.64	5.69	—
411	Local and suburban transportation	282.22	269.84	284.28	281.26	—	6.85	6.63	6.90	6.86	—
413	Intercity highway transportation	247.54	283.56	287.45	285.60	—	8.02	7.79	8.12	8.50	—
42	TRUCKING AND WAREHOUSING	313.10	285.48	330.84	312.82	—	7.75	7.32	8.03	7.98	—
421, 3	Trucking and trucking terminals	319.95	291.69	339.48	319.48	—	7.90	7.46	8.20	8.15	—
422	Public warehousing	214.66	200.64	222.88	215.00	—	5.49	5.28	5.60	5.57	—
46	PIPE LINES, EXCEPT NATURAL GAS	366.50	368.46	376.74	384.57	—	8.81	8.69	9.10	9.07	—
48	COMMUNICATION	292.47	285.68	302.51	297.08	—	7.33	7.16	7.62	7.54	—
481	Telephone communication	301.50	295.07	313.58	306.86	—	7.50	7.34	7.82	7.71	—
4817	Switchboard operating employees ³	220.35	220.53	223.07	221.49	—	6.26	6.16	6.41	6.42	—
4818	Line construction employees ⁴	412.68	402.28	430.80	419.64	—	9.13	8.90	9.51	9.43	—
483	Radio and television broadcasting	248.62	243.21	255.61	258.25	—	6.56	6.35	6.78	6.85	—
49	ELECTRIC, GAS, AND SANITARY SERVICES	319.35	315.75	331.38	336.00	—	7.64	7.50	7.89	8.00	—
491	Electric services	324.94	319.27	339.80	345.44	—	7.70	7.53	7.96	8.09	—
492	Gas production and distribution	288.97	282.87	299.88	301.99	—	7.10	6.95	7.35	7.42	—
493	Combination utility services	354.47	356.97	367.04	370.44	—	8.46	8.36	8.76	8.82	—
495	Sanitary services	261.14	255.85	266.28	267.74	—	6.13	5.95	6.31	6.39	—
—	WHOLESALE AND RETAIL TRADE	153.31	146.19	158.88	157.91	159.22	4.66	4.54	4.80	4.95	4.96
50, 51	WHOLESALE TRADE	228.14	217.73	240.47	237.31	237.93	5.88	5.67	6.15	6.18	6.18
50	WHOLESALE TRADE-DURABLE GOODS	231.48	220.77	244.16	240.40	—	5.89	5.69	6.15	6.18	—
501	Motor vehicles and automotive equipment	211.30	197.08	228.89	218.12	—	5.46	5.20	5.78	5.74	—
502	Furniture and home furnishings	200.11	189.88	214.10	209.07	—	5.28	5.05	5.59	5.59	—
503	Lumber and construction materials	233.05	215.81	247.16	239.94	—	5.90	5.62	6.21	6.20	—
504	Sporting goods, toys, and hobby goods	228.69	227.67	241.16	235.99	—	6.05	5.96	6.38	6.31	—

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^p	Feb. 1979 ^p	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^p	Feb. 1979 ^p
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	40.5	39.9	41.1	40.2	—	3.2	3.0	3.3	3.3	—
2841	Soap and other detergents	43.4	43.1	43.5	44.0	—	5.1	4.9	5.5	5.4	—
2842, 3	Polishing, sanitation, and finishing preparations	40.4	40.1	40.3	39.6	—	3.1	3.2	2.8	3.0	—
2844	Toilet preparations	38.5	37.3	39.7	37.5	—	1.9	1.4	1.8	1.8	—
285	Paints and allied products	41.4	40.5	41.6	40.8	—	3.4	2.8	3.0	2.7	—
286	Industrial organic chemicals	42.5	42.1	43.0	43.0	—	3.7	3.5	3.8	4.0	—
2865	Cyclic crudes and intermediates	42.3	41.9	43.2	42.2	—	4.0	3.9	4.5	3.8	—
2861, 8	Gum, wood, and industrial organic chemicals, nec	42.6	42.2	42.9	43.3	—	3.6	3.4	3.6	4.1	—
287	Agricultural chemicals	42.6	42.4	42.7	42.6	—	5.0	4.9	4.5	4.8	—
289	Miscellaneous chemical products	41.6	41.0	42.4	41.4	—	3.5	3.4	3.8	3.5	—
29	PETROLEUM AND COAL PRODUCTS	43.6	42.5	43.8	43.6	44.1	4.3	3.7	4.5	4.2	—
291	Petroleum refining	43.1	42.6	43.3	43.7	—	3.5	3.4	3.9	3.7	—
295	Paving and roofing materials	46.2	42.7	46.1	44.3	—	7.7	5.6	7.3	6.4	—
30	RUBBER AND MISC. PLASTICS PRODUCTS	40.8	39.8	41.9	41.1	41.1	3.6	3.2	4.0	3.7	—
301	Tires and inner tubes	43.1	41.8	45.4	44.7	—	4.9	3.8	6.4	6.0	—
302	Rubber and plastics footwear	38.2	37.7	39.5	37.3	—	2.3	2.3	2.4	2.0	—
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	41.1	40.6	42.2	41.2	—	4.3	4.4	4.6	4.3	—
306	Fabricated rubber products, nec	40.5	39.4	41.7	41.0	—	3.3	2.8	3.7	3.5	—
307	Miscellaneous plastics products	40.5	39.4	41.3	40.4	—	3.4	3.2	3.5	3.3	—
31	LEATHER AND LEATHER PRODUCTS	37.1	35.8	37.1	36.2	36.1	1.8	1.6	1.5	1.4	—
311	Leather tanning and finishing	39.6	39.1	39.1	38.8	—	3.1	3.3	2.6	2.6	—
314	Footwear, except rubber	36.9	35.6	36.8	35.8	—	1.6	1.5	1.3	1.2	—
3143	Men's footwear, except athletic	37.8	36.5	37.9	36.9	—	1.7	1.7	1.2	.9	—
3144	Women's footwear, except athletic	36.1	34.7	36.0	35.2	—	1.6	1.3	1.4	1.5	—
316	Luggage	36.5	35.6	36.8	35.3	—	1.9	1.4	2.2	1.8	—
317	Handbags and personal leather goods	36.8	35.2	37.5	36.2	—	1.9	1.0	1.6	1.7	—
—	TRANSPORTATION AND PUBLIC UTILITIES	40.0	39.4	40.2	39.4	39.6	—	—	—	—	—
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	43.7	42.2	43.5	(*)	—	—	—	—	—	—
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	34.5	33.6	34.1	33.7	—	—	—	—	—	—
411	Local and suburban transportation	41.2	40.7	41.2	41.0	—	—	—	—	—	—
413	Intercity highway transportation	37.1	36.4	35.4	33.6	—	—	—	—	—	—
42	TRUCKING AND WAREHOUSING	40.4	39.0	41.2	39.2	—	—	—	—	—	—
421, 3	Trucking and trucking terminals	40.5	39.1	41.4	39.2	—	—	—	—	—	—
422	Public warehousing	39.1	38.0	39.8	38.6	—	—	—	—	—	—
46	PIPE LINES, EXCEPT NATURAL GAS	41.6	42.4	41.4	42.4	—	—	—	—	—	—
48	COMMUNICATION	39.9	39.9	39.7	39.4	—	—	—	—	—	—
481	Telephone communication	40.2	40.2	40.1	39.8	—	—	—	—	—	—
4817	Switchboard operating employees ³	35.2	35.8	34.8	34.5	—	—	—	—	—	—
4818	Line construction employees ⁴	45.2	45.2	45.3	44.5	—	—	—	—	—	—
483	Radio and television broadcasting	37.9	38.3	37.7	37.7	—	—	—	—	—	—
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.8	42.1	42.0	42.0	—	—	—	—	—	—
491	Electric services	42.2	42.4	42.7	42.7	—	—	—	—	—	—
492	Gas production and distribution	40.7	40.7	40.8	40.7	—	—	—	—	—	—
493	Combination utility services	41.9	42.7	41.9	42.0	—	—	—	—	—	—
495	Sanitary services	42.6	43.0	42.2	41.9	—	—	—	—	—	—
—	WHOLESALE AND RETAIL TRADE	32.9	32.2	33.1	31.9	32.1	—	—	—	—	—
50, 51	WHOLESALE TRADE	38.8	38.4	39.1	38.4	38.5	—	—	—	—	—
50	WHOLESALE TRADE-DURABLE GOODS	39.3	38.8	39.7	38.9	—	—	—	—	—	—
501	Motor vehicles and automotive equipment	38.7	37.9	39.6	38.0	—	—	—	—	—	—
502	Furniture and home furnishings	37.9	37.6	38.3	37.4	—	—	—	—	—	—
503	Lumber and construction materials	39.5	38.4	39.8	38.7	—	—	—	—	—	—
504	Sporting goods, toys, and hobby goods	37.8	38.2	37.8	37.4	—	—	—	—	—	—

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
WHOLESALE TRADE-DURABLE GOODS—Continued											
505	Metals and minerals, except petroleum	\$265.72	\$256.31	\$279.50	\$275.26	-	\$6.71	\$6.44	\$6.97	\$7.04	-
506	Electrical goods	232.83	220.80	247.90	242.17	-	5.97	5.75	6.26	6.29	-
507	Hardware, plumbing, and heating equipment	218.09	211.37	225.43	226.00	-	5.65	5.49	5.81	5.87	-
508	Machinery, equipment, and supplies	246.00	235.42	256.88	256.31	-	6.15	5.96	6.39	6.44	-
509	Miscellaneous durable goods	196.95	183.86	209.09	203.81	-	5.05	4.89	5.28	5.28	-
51	WHOLESALE TRADE-NONDURABLE GOODS	223.65	213.57	235.55	233.36	-	5.87	5.65	6.15	6.19	-
511	Paper and paper products	249.66	235.43	269.01	270.80	-	6.84	6.45	7.33	7.46	-
512	Drugs, proprietaries, and sundries	231.11	223.30	244.68	238.75	-	6.05	5.80	6.29	6.25	-
513	Apparel, piece goods, and notions	196.56	184.53	209.44	205.41	-	5.40	5.14	5.63	5.69	-
514	Groceries and related products	227.71	219.46	237.78	235.12	-	5.93	5.76	6.16	6.22	-
516	Chemicals and allied products	259.35	246.40	276.71	273.83	-	6.65	6.40	6.97	6.95	-
517	Petroleum and petroleum products	270.58	257.11	291.00	292.87	-	6.85	6.46	7.33	7.34	-
518	Beer, wine, and distilled beverages	261.64	246.00	281.60	266.01	-	6.94	6.56	7.43	7.17	-
519	Miscellaneous nondurable goods	183.44	175.41	194.06	192.38	-	4.84	4.69	5.08	5.13	-
52-59	RETAIL TRADE	129.89	124.23	134.90	133.35	\$134.99	4.19	4.10	4.31	4.46	\$4.47
52	BUILDING MATERIALS AND GARDEN SUPPLIES	175.68	162.34	181.23	178.36	-	4.66	4.46	4.82	4.86	-
521	Lumber and other building materials	195.32	178.42	201.17	197.37	-	4.92	4.72	5.08	5.10	-
525	Hardware stores	136.11	132.00	141.29	139.18	-	3.90	3.75	4.06	4.13	-
53	GENERAL MERCHANDISE STORES	118.37	112.31	124.12	119.54	-	4.04	4.04	4.03	4.30	-
531	Department stores	123.48	115.93	128.44	123.65	-	4.20	4.17	4.17	4.48	-
533	Variety stores	98.21	96.72	106.53	103.01	-	3.41	3.53	3.47	3.54	-
539	Misc. general merchandise stores	95.36	90.72	97.24	95.65	-	3.20	3.15	3.22	3.38	-
54	FOOD STORES	167.68	159.83	173.22	172.85	-	5.24	5.09	5.43	5.54	-
541	Grocery stores	174.96	166.31	180.64	180.37	-	5.40	5.23	5.61	5.69	-
546	Retail bakeries	115.15	107.26	119.77	115.77	-	3.93	3.79	4.06	4.12	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	183.63	172.52	189.50	187.99	-	4.91	4.65	5.04	5.04	-
551, 2	New and used car dealers	226.77	208.13	232.54	225.79	-	5.89	5.42	6.04	5.88	-
553	Auto and home supply stores	181.04	174.15	187.87	196.75	-	4.47	4.42	4.56	4.87	-
554	Gasoline service stations	128.45	124.55	131.60	133.63	-	3.67	3.61	3.76	3.84	-
56	APPAREL AND ACCESSORY STORES	110.11	105.04	118.58	112.79	-	3.72	3.66	3.85	3.93	-
561	Men's and boys' clothing and furnishings	137.05	135.04	150.92	146.00	-	4.23	4.22	4.40	4.52	-
562	Women's ready-to-wear stores	97.01	93.37	102.26	98.37	-	3.44	3.42	3.49	3.59	-
565	Family clothing stores	105.90	96.73	115.63	109.44	-	3.53	3.43	3.73	3.84	-
566	Shoe stores	117.89	113.78	123.26	113.29	-	4.01	3.87	4.15	4.09	-
57	FURNITURE AND HOME FURNISHINGS STORES	168.61	160.65	182.95	176.94	-	4.79	4.67	5.04	5.07	-
571	Furniture and home furnishings	174.59	168.43	188.08	181.48	-	4.96	4.84	5.21	5.23	-
572	Household appliance stores	179.55	167.56	193.66	186.52	-	4.96	4.72	5.22	5.21	-
573	Radio, television, and music stores	147.40	137.10	163.08	159.73	-	4.26	4.18	4.53	4.59	-
58	EATING AND DRINKING PLACES^S	86.99	82.58	88.05	87.29	-	3.21	3.14	3.31	3.45	-
59	MISCELLANEOUS RETAIL	132.52	129.28	139.26	139.04	-	4.09	3.99	4.22	4.40	-
591	Drug stores and proprietary stores	118.58	115.44	122.15	121.20	-	3.85	3.81	3.89	4.04	-
594	Miscellaneous shopping goods stores	119.70	114.08	128.84	126.46	-	3.80	3.68	3.94	4.16	-
596	Nonstore retailers	164.50	157.60	169.48	169.32	-	4.70	4.49	4.87	5.10	-
598	Fuel and ice dealers	212.65	225.35	230.68	244.02	-	5.27	5.34	5.71	5.88	-
599	Retail stores, nec	129.85	120.08	138.84	136.32	-	4.02	3.80	4.22	4.26	-
-	FINANCE, INSURANCE, AND REAL ESTATE^S	178.36	173.26	184.04	186.73	187.31	4.90	4.76	5.07	5.13	5.16
60	BANKING	154.09	150.84	157.18	160.67	-	4.21	4.11	4.33	4.39	-
602	Commercial and stock savings banks	150.79	147.90	154.28	157.32	-	4.12	4.03	4.25	4.31	-
61	CREDIT AGENCIES OTHER THAN BANKS	161.85	159.10	164.98	167.90	-	4.41	4.30	4.52	4.60	-
612	Savings and loan associations	153.49	153.14	154.94	160.92	-	4.24	4.15	4.34	4.47	-
614	Personal credit institutions	158.61	152.72	163.76	165.15	-	4.31	4.15	4.45	4.50	-
63	INSURANCE CARRIERS	194.56	189.35	202.17	203.11	-	5.23	5.09	5.42	5.46	-
631	Life insurance	193.57	188.64	200.56	200.02	-	5.26	5.14	5.45	5.45	-
632	Medical service and health insurance	189.50	185.82	197.49	200.69	-	5.00	4.89	5.17	5.24	-
633	Fire, marine, and casualty insurance	196.79	190.98	203.68	206.28	-	5.29	5.12	5.49	5.56	-

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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979	Feb. 1979
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	39.6	39.8	40.1	39.1	--	--	--	--	--	
506	Electrical goods	39.0	38.4	39.6	38.5	--	--	--	--	--	
507	Hardware, plumbing, and heating equipment	38.6	38.5	38.8	38.5	--	--	--	--	--	
508	Machinery, equipment, and supplies	40.0	39.5	40.2	39.8	--	--	--	--	--	
509	Miscellaneous durable goods	39.0	37.6	39.6	38.6	--	--	--	--	--	
51	WHOLESALE TRADE-NONDURABLE GOODS ..	38.1	37.8	38.3	37.7	--	--	--	--	--	
511	Paper and paper products	36.5	36.5	36.7	36.3	--	--	--	--	--	
512	Drugs, proprietaries, and sundries	38.2	38.5	38.9	38.2	--	--	--	--	--	
513	Apparel, piece goods, and notions	36.4	35.9	37.2	36.1	--	--	--	--	--	
514	Groceries and related products	38.4	38.1	38.6	37.8	--	--	--	--	--	
516	Chemicals and allied products	39.0	38.5	39.7	39.4	--	--	--	--	--	
517	Petroleum and petroleum products	39.5	39.8	39.7	39.9	--	--	--	--	--	
518	Beer, wine, and distilled beverages	37.7	37.5	37.9	37.1	--	--	--	--	--	
519	Miscellaneous nondurable goods	37.9	37.4	38.2	37.5	--	--	--	--	--	
52-59	RETAIL TRADE	31.0	30.3	31.3	29.9	30.2	--	--	--	--	
52	BUILDING MATERIALS AND GARDEN SUPPLIES	37.7	36.4	37.6	36.7	--	--	--	--	--	
521	Lumber and other building materials	39.7	37.8	39.6	38.7	--	--	--	--	--	
525	Hardware stores	34.9	35.2	34.8	33.7	--	--	--	--	--	
53	GENERAL MERCHANDISE STORES	29.3	27.8	30.8	27.8	--	--	--	--	--	
531	Department stores	29.4	27.8	30.8	27.6	--	--	--	--	--	
533	Variety stores	28.8	27.4	30.7	29.1	--	--	--	--	--	
539	Misc. general merchandise stores	29.8	28.8	30.2	28.3	--	--	--	--	--	
54	FOOD STORES	32.0	31.4	31.9	31.2	--	--	--	--	--	
541	Grocery stores	32.4	31.8	32.2	31.7	--	--	--	--	--	
546	Retail bakeries	29.3	28.3	29.5	28.1	--	--	--	--	--	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	37.4	37.1	37.6	37.3	--	--	--	--	--	
551, 2	New and used car dealers	38.5	38.4	38.5	38.4	--	--	--	--	--	
553	Auto and home supply stores	40.5	39.4	41.2	40.4	--	--	--	--	--	
554	Gasoline service stations	35.0	34.5	35.0	34.8	--	--	--	--	--	
56	APPAREL AND ACCESSORY STORES	29.6	28.7	30.8	28.7	--	--	--	--	--	
561	Men's and boys' clothing and furnishings	32.4	32.0	34.3	32.3	--	--	--	--	--	
562	Women's ready-to-wear stores	28.2	27.3	29.3	27.4	--	--	--	--	--	
565	Family clothing stores	30.0	28.2	31.0	28.5	--	--	--	--	--	
566	Shoe stores	29.4	29.4	29.7	27.7	--	--	--	--	--	
57	FURNITURE AND HOME FURNISHINGS STORES	35.2	34.4	36.3	34.9	--	--	--	--	--	
571	Furniture and home furnishings	35.2	34.8	36.1	34.7	--	--	--	--	--	
572	Household appliance stores	36.2	35.5	37.1	35.8	--	--	--	--	--	
573	Radio, television, and music stores	34.6	32.8	36.0	34.8	--	--	--	--	--	
58	EATING AND DRINKING PLACES ⁵	27.1	26.3	26.6	25.3	--	--	--	--	--	
59	MISCELLANEOUS RETAIL	32.4	32.4	33.0	31.6	--	--	--	--	--	
591	Drug stores and proprietary stores	30.8	30.3	31.4	30.0	--	--	--	--	--	
594	Miscellaneous shopping goods stores	31.5	31.0	32.7	30.4	--	--	--	--	--	
596	Nonstore retailers	35.0	35.1	34.8	33.2	--	--	--	--	--	
598	Fuel and ice dealers	39.6	42.2	40.4	41.5	--	--	--	--	--	
599	Retail stores, nec	32.3	31.6	32.9	32.0	--	--	--	--	--	
--	FINANCE, INSURANCE, AND REAL ESTATE ⁶	36.4	36.4	36.3	36.4	36.3	--	--	--	--	
60	BANKING	36.6	36.7	36.3	36.6	--	--	--	--	--	
602	Commercial and stock savings banks	36.6	36.7	36.3	36.5	--	--	--	--	--	
61	CREDIT AGENCIES OTHER THAN BANKS	36.7	37.0	36.5	36.5	--	--	--	--	--	
612	Savings and loan associations	36.2	36.9	35.7	36.0	--	--	--	--	--	
614	Personal credit institutions	36.8	36.8	36.8	36.7	--	--	--	--	--	
63	INSURANCE CARRIERS	37.2	37.2	37.3	37.2	--	--	--	--	--	
631	Life insurance	36.8	36.7	36.8	36.7	--	--	--	--	--	
632	Medical service and health insurance	37.9	38.0	38.2	38.3	--	--	--	--	--	
633	Fire, marine, and casualty insurance	37.2	37.3	37.1	37.1	--	--	--	--	--	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
-	SERVICES	\$163.67	\$160.39	\$167.70	\$169.45	\$170.42	\$4.99	\$4.89	\$5.16	\$5.23	\$5.26
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts	112.94	109.96	113.85	114.55	-	3.62	3.57	3.77	3.87	-
721	PERSONAL SERVICES: Laundry, cleaning, and garment services	129.38	123.68	133.86	135.43	-	3.75	3.67	3.88	3.96	-
723	Beauty shops	120.65	110.66	127.03	114.82	-	3.83	3.64	4.02	3.84	-
73	BUSINESS SERVICES	168.45	166.32	170.63	169.90	-	5.12	5.04	5.25	5.26	-
731	Advertising	255.25	248.51	261.00	257.38	-	7.11	7.04	7.21	7.11	-
734	Services to buildings	123.27	123.36	124.49	121.37	-	4.45	4.39	4.56	4.58	-
737	Computer and data processing services	209.88	202.76	217.56	216.94	-	5.75	5.54	6.01	5.96	-
75	AUTO REPAIR, SERVICES, AND GARAGES	186.50	179.08	191.88	194.51	-	5.00	4.84	5.20	5.30	-
753	Automotive repair shops	210.60	202.28	216.55	219.07	-	5.40	5.20	5.61	5.69	-
76	MISCELLANEOUS REPAIR SERVICES	244.22	236.00	255.23	252.34	-	6.03	5.90	6.18	6.20	-
78	MOTION PICTURES	190.63	195.65	196.01	205.23	-	6.76	6.77	7.18	7.49	-
781	Motion picture production and services	369.00	368.86	370.02	391.20	-	9.84	9.81	9.92	10.46	-
79	AMUSEMENT AND RECREATION SERVICES	143.67	138.92	147.30	146.91	-	4.59	4.60	4.91	4.93	-
80	HEALTH SERVICES	157.56	151.67	162.20	165.99	-	4.76	4.61	4.93	5.03	-
801	Offices of physicians	164.84	157.44	171.93	171.74	-	4.98	4.80	5.21	5.22	-
802	Offices of dentists	135.83	134.99	136.80	137.57	-	4.70	4.72	4.75	4.81	-
805	Nursing and personal care facilities	111.38	108.96	113.83	118.42	-	3.57	3.47	3.66	3.82	-
806	Hospitals	172.21	164.94	177.30	182.29	-	5.05	4.88	5.23	5.33	-
81	LEGAL SERVICES	212.50	210.53	215.68	219.09	-	6.25	6.12	6.40	6.54	-
89	MISCELLANEOUS SERVICES	274.61	268.73	283.83	287.54	-	7.17	6.98	7.43	7.43	-
891	Engineering and architectural services	296.01	287.39	304.15	308.46	-	7.59	7.35	7.90	7.95	-
893	Accounting, auditing, and bookkeeping	238.61	234.69	244.34	247.65	-	6.23	6.08	6.43	6.35	-

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.

* Not available.

** 11-month average.

p=preliminary.

**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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P	Avg. 1978	Jan. 1978	Dec. 1978	Jan. 1979	Feb. 1979
-	SERVICES	32.8	32.8	32.5	32.4	32.4	-	-	-	-	-
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	31.2	30.8	30.2	29.6	-	-	-	-	-	
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	34.5	33.7	34.5	34.2	-	-	-	-	-	
723	Beauty shops	31.5	30.4	31.6	29.9	-	-	-	-	-	
73	BUSINESS SERVICES	32.9	33.0	32.5	32.3	-	-	-	-	-	
731	Advertising	35.9	35.3	36.2	36.2	-	-	-	-	-	
734	Services to buildings	27.7	28.1	27.3	26.5	-	-	-	-	-	
737	Computer and data processing services	36.5	36.6	36.2	36.4	-	-	-	-	-	
75	AUTO REPAIR, SERVICES, AND GARAGES	37.3	37.0	36.9	36.7	-	-	-	-	-	
753	Automotive repair shops	39.0	38.9	38.6	38.5	-	-	-	-	-	
76	MISCELLANEOUS REPAIR SERVICES	40.5	40.0	41.3	40.7	-	-	-	-	-	
78	MOTION PICTURES	28.2	28.9	27.3	27.4	-	-	-	-	-	
781	Motion picture production and services	37.5	37.6	37.3	37.4	-	-	-	-	-	
79	AMUSEMENT AND RECREATION SERVICES	31.3	30.2	30.0	29.8	-	-	-	-	-	
80	HEALTH SERVICES	33.1	32.9	32.9	33.0	-	-	-	-	-	
801	Offices of physicians	33.1	32.8	33.0	32.9	-	-	-	-	-	
802	Offices of dentists	28.9	28.6	28.8	28.6	-	-	-	-	-	
805	Nursing and personal care facilities	31.2	31.4	31.1	31.0	-	-	-	-	-	
806	Hospitals	34.1	33.8	33.9	34.2	-	-	-	-	-	
81	LEGAL SERVICES	34.0	34.4	33.7	33.5	-	-	-	-	-	
89	MISCELLANEOUS SERVICES	38.3	38.5	38.2	38.7	-	-	-	-	-	
891	Engineering and architectural services	39.0	39.1	38.5	38.8	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	38.3	38.6	38.0	39.0	-	-	-	-	-	

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	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Executive Branch													
Total employment	2,662.5	2,664.3	2,673.1	2,659.5	2,668.2	2,672.9	2,686.7	2,702.9	2,747.5	2,760.3	2,738.5	2,691.9	2,694.5
Average weekly hours	39.8	39.4	40.0	39.6	39.9	39.9	39.6	39.5	39.6	39.8	39.7	39.5	39.9
Average overtime hours	1.2	1.1	1.6	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3
Indexes (1967=100):													
Average weekly earnings	226.9	225.9	230.5	229.0	230.2	227.4	226.5	226.0	226.5	227.7	226.8	230.0	242.0
Average hourly earnings	224.6	225.9	227.0	227.8	227.3	226.2	225.4	225.4	225.4	225.4	225.1	229.5	238.9
Department of Defense													
Total employment	907.8	909.8	907.7	906.4	906.0	905.6	905.4	911.3	924.8	927.1	918.6	905.4	905.8
Average weekly hours	39.9	39.8	40.0	39.9	40.1	40.0	40.1	40.0	40.0	40.1	40.1	39.7	39.9
Average overtime hours .....	.9	.9	.8	.7	.8	.9	.9	.9	1.0	.9	1.0	1.2	1.0
Indexes (1967=100):													
Average weekly earnings	217.4	220.9	220.4	221.8	222.3	221.5	222.1	222.0	221.5	220.4	221.2	223.3	232.5
Average hourly earnings	219.6	223.7	222.1	224.0	223.4	223.2	223.2	223.7	223.2	221.5	222.3	226.7	234.9
Postal Service													
Total employment	649.2	650.2	668.2	645.6	646.9	647.6	647.9	648.3	648.3	647.5	649.0	651.9	646.9
Average weekly hours	41.2	39.8	41.8	41.1	41.5	40.4	40.1	39.9	40.0	40.2	39.9	39.7	41.5
Average overtime hours	2.0	1.5	3.5	2.5	2.1	1.7	1.5	1.5	1.6	1.8	1.5	1.8	2.3
Indexes (1967=100):													
Average weekly earnings	259.0	253.4	271.7	253.9	266.5	258.5	256.2	254.3	259.7	261.9	260.3	259.3	278.7
Average hourly earnings	242.7	245.7	250.9	249.9	247.9	247.0	246.6	246.0	250.6	251.5	251.8	252.1	259.5
Other Agencies													
Total employment	1,105.5	1,104.3	1,097.2	1,107.5	1,115.3	1,119.7	1,133.4	1,143.3	1,174.4	1,185.7	1,170.9	1,134.6	1,141.8
Average weekly hours	38.8	38.9	38.8	38.5	38.9	38.8	38.9	38.8	39.0	39.3	39.3	39.1	39.0
Average overtime hours	1.1	1.1	1.0	.9	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.1
Indexes (1967=100):													
Average weekly earnings	216.6	215.4	216.1	216.6	217.6	215.1	214.1	213.4	212.0	214.6	213.4	218.3	229.1
Average hourly earnings	216.6	214.9	216.1	218.3	217.1	215.1	213.6	213.4	210.9	211.9	210.6	216.6	228.0

NOTE: The hours and earnings averages presented in this table have been computed using data collected by the U.S. Civil Service Commission 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. 1978	Jan. 1978	Dec. 1978	Jan. 1979 ^p	Feb. 1979 ^p
MANUFACTURING	\$5.90	\$5.73	\$6.18	\$6.22	\$6.23
DURABLE GOODS	6.28	6.08	6.59	6.60	6.62
Lumber and wood products	5.35	5.18	5.53	5.57	-
Furniture and fixtures	4.52	4.41	4.68	4.74	-
Stone, clay, and glass products	5.97	5.75	6.22	6.24	-
Primary metal industries	7.81	7.49	8.14	8.16	-
Fabricated metal products	6.06	5.86	6.32	6.32	-
Machinery, except electrical	6.44	6.23	6.75	6.73	-
Electric and electronic equipment	5.63	5.48	5.87	5.91	-
Transportation equipment	7.47	7.21	7.90	7.85	-
Instruments and related products	5.53	5.39	5.74	5.79	-
Miscellaneous manufacturing industries	4.55	4.47	4.72	4.80	-
NONDURABLE GOODS	5.31	5.18	5.52	5.60	5.59
Food and kindred products	5.52	5.37	5.74	5.82	-
Tobacco manufactures	6.09	5.87	6.16	6.38	-
Textile mill products	4.11	4.00	4.28	4.32	-
Apparel and other textile products	3.87	3.80	4.01	4.12	-
Paper and allied products	6.15	5.92	6.41	6.43	-
Printing and publishing	(²)	(²)	(²)	-	-
Chemicals and allied products	6.73	6.51	6.99	7.02	-
Petroleum and coal products	8.20	8.06	8.43	8.56	-
Rubber and misc. plastics products	5.27	5.13	5.49	5.56	-
Leather and leather products	3.81	3.72	3.93	4.07	-

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

^p preliminary.

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

ESTABLISHMENT DATA HOURS AND EARNINGS

C-5. Gross and spendable average weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division, in current and 1967 dollars

Industry	Gross average weekly earnings			Spendable average weekly earnings ²					
				Worker with no dependents			Married worker with 3 dependents		
	Avg. 1978	Dec. 1978	Jan. 1979 ^P	Avg. 1978	Dec. 1978	Jan. 1979 ^P	Avg. 1978	Dec. 1978	Jan. 1979 ^P
TOTAL PRIVATE:									
Current dollars	\$203.70	\$213.35	\$209.44	\$165.39	\$172.31	\$170.37	\$180.71	\$187.95	\$186.67
1967 dollars	104.30	105.15	102.32	84.69	84.92	83.23	92.53	92.63	91.19
MINING:									
Current dollars	332.88	350.18	348.50	252.33	263.81	264.80	276.51	289.55	291.16
1967 dollars	170.45	172.59	170.25	129.20	130.02	129.36	141.58	142.71	142.24
CONSTRUCTION:									
Current dollars	319.19	330.56	310.91	243.57	250.87	240.79	266.66	274.84	263.77
1967 dollars	163.44	162.92	151.89	124.72	123.64	117.63	136.54	135.46	128.86
MANUFACTURING:									
Current dollars	249.27	267.86	259.85	197.40	209.84	206.12	214.87	229.09	225.18
1967 dollars	127.63	132.02	126.94	101.08	103.42	100.69	110.02	112.91	110.00
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	302.00	314.36	306.93	232.41	240.44	238.21	254.29	263.18	260.87
1967 dollars	154.63	154.93	149.94	119.00	118.50	116.37	130.20	129.71	127.44
WHOLESALE AND RETAIL TRADE:									
Current dollars	153.31	158.80	157.91	128.58	132.69	132.32	141.86	146.12	148.23
1967 dollars	78.50	78.27	77.14	65.84	65.40	64.64	72.64	72.02	72.41
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	178.36	184.04	186.73	147.16	151.25	153.82	161.37	165.74	169.69
1967 dollars	91.33	90.70	91.22	75.35	74.54	75.14	82.63	81.69	82.90
SERVICES:									
Current dollars	163.67	167.70	169.45	136.34	139.36	140.96	149.92	153.06	158.12
1967 dollars	83.80	82.65	82.78	69.81	68.68	68.86	76.76	75.44	77.24
CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)	195.3	202.9	204.7	NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is an estimate of the average change in the prices of goods and services purchased by those consumers, and is used to deflate the current dollar values in this table to the 1967 dollar values shown. A major revision in the Consumer Price Index (revised CPI-W) was introduced with data for January 1978. Data prior to January 1978 in 1967 dollars are based on the unrevised Consumer Price Index for Urban Wage Earners and Clerical Workers (unrevised CPI-W).					

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).

Beginning in January 1979, the spendable average weekly earnings reflect the tax liability changes legislated by the Revenue Act of 1978. 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. 1978	Feb. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
	Hours				
TOTAL PRIVATE	120.2	113.2	124.7	118.4	118.8
GOODS-PRODUCING	105.3	96.0	110.1	103.4	103.7
MINING	136.2	103.2	147.7	143.6	145.5
CONSTRUCTION	119.1	87.7	123.8	102.3	101.8
MANUFACTURING	101.7	97.3	106.4	102.2	102.6
DURABLE GOODS	104.2	99.1	110.8	106.1	106.8
Lumber and wood products	113.4	106.7	114.0	106.9	108.9
Furniture and fixtures	109.0	108.3	112.8	106.8	106.7
Stone, clay, and glass products	110.8	100.5	112.4	103.6	105.1
Primary metal industries	95.0	91.8	99.6	98.1	97.5
Fabricated metal products	102.8	98.5	109.0	104.5	104.7
Machinery, except electrical	110.9	107.3	121.1	117.3	119.9
Electric and electronic equipment	100.6	96.9	106.7	103.4	104.3
Transportation equipment	97.9	90.0	109.2	102.0	101.3
Instruments and related products	122.2	116.2	129.9	127.5	130.6
Miscellaneous manufacturing industries	100.9	94.5	100.9	96.4	96.3
NONDURABLE GOODS	98.2	94.6	100.0	96.5	96.4
Food and kindred products	94.1	88.1	95.5	90.7	88.0
Tobacco manufactures	77.5	76.8	84.7	74.6	70.6
Textile mill products	92.2	91.6	93.2	90.6	90.4
Apparel and other textile products	90.3	88.2	89.9	85.9	87.4
Paper and allied products	100.4	96.4	102.5	100.1	100.0
Printing and publishing	98.5	95.5	103.0	99.1	100.8
Chemicals and allied products	106.2	103.5	107.9	106.5	107.0
Petroleum and coal products	121.6	112.8	122.0	120.0	122.6
Rubber and misc. plastics products	145.9	137.4	154.6	150.6	151.5
Leather and leather products	68.8	66.4	66.9	63.9	63.4
SERVICE-PRODUCING	130.6	125.2	134.9	128.8	129.4
TRANSPORTATION AND PUBLIC UTILITIES	108.6	105.9	111.5	107.4	108.6
WHOLESALE AND RETAIL TRADE	126.7	119.5	134.5	124.1	123.8
WHOLESALE TRADE	126.0	121.5	129.6	126.0	126.2
RETAIL TRADE	127.0	118.7	136.5	123.4	122.9
FINANCE, INSURANCE, AND REAL ESTATE	138.0	133.8	140.5	140.6	140.7
SERVICES	144.0	139.4	144.6	141.8	143.3

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. 1978	Feb. 1978	Dec. 1978	Jan. 1979 ^P	Feb. 1979 ^P
	Payrolls				
TOTAL PRIVATE	255.2	232.0	274.9	263.0	264.9
GOODS-PRODUCING	230.9	200.7	252.6	236.3	237.5
MINING	327.6	224.4	372.8	369.3	374.6
CONSTRUCTION	250.3	177.4	268.3	222.8	221.9
MANUFACTURING	222.1	205.9	243.8	234.6	236.2
DURABLE GOODS	228.7	210.5	255.8	244.4	247.1
Lumber and wood products	268.8	243.2	279.3	262.7	268.0
Furniture and fixtures	219.1	212.4	235.5	224.5	226.0
Stone, clay, and glass products	248.3	215.4	261.9	240.8	244.9
Primary metal industries	233.1	218.9	255.2	252.0	253.0
Fabricated metal products	218.9	202.8	242.2	231.4	233.1
Machinery, except electrical	235.4	222.0	270.9	260.3	268.0
Electric and electronic equipment	211.4	198.6	234.7	228.3	231.1
Transportation equipment	225.3	199.1	267.0	247.2	245.5
Instruments and related products	244.6	228.6	271.1	267.3	276.9
Miscellaneous manufacturing industries	201.4	184.2	209.0	202.1	202.7
NONDURABLE GOODS	211.0	197.9	223.5	218.1	217.7
Food and kindred products	206.9	189.7	217.9	209.6	203.7
Tobacco manufactures	213.7	207.2	236.0	212.5	204.4
Textile mill products	192.5	185.4	203.1	198.7	197.5
Apparel and other textile products	175.2	167.5	180.5	176.5	179.8
Paper and allied products	228.0	212.2	242.4	237.0	237.6
Printing and publishing	194.5	184.8	209.8	202.3	203.6
Chemicals and allied products	239.9	227.6	253.0	250.8	251.9
Petroleum and coal products	292.4	271.7	302.3	301.1	306.6
Rubber and misc. plastics products	292.5	267.5	323.7	318.8	319.7
Leather and leather products	129.6	123.8	129.6	128.4	127.5
SERVICE-PRODUCING	276.1	259.0	294.1	286.0	288.4
TRANSPORTATION AND PUBLIC UTILITIES	253.4	241.2	269.5	258.7	262.7
WHOLESALE AND RETAIL TRADE	262.3	241.0	287.0	272.9	272.5
WHOLESALE TRADE	257.5	239.2	277.2	270.9	271.2
RETAIL TRADE	265.0	242.1	292.4	274.0	273.2
FINANCE, INSURANCE, AND REAL ESTATE	261.9	246.5	275.8	279.0	281.0
SERVICES	314.0	299.0	325.9	323.9	329.1

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

p=preliminary.

ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

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

Industry	1978											1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. ^P	Feb. ^P
TOTAL PRIVATE	35.7	36.0	36.1	35.9	35.9	35.9	35.8	35.8	35.9	35.8	35.9	35.7	35.7
MINING	43.2	43.7	44.0	43.4	43.4	43.0	43.6	43.0	43.0	43.3	43.7	43.5	43.3
CONSTRUCTION	35.6	36.9	37.3	36.6	37.3	37.3	37.1	37.0	36.9	36.8	37.2	36.0	36.4
MANUFACTURING	40.1	40.6	40.8	40.4	40.5	40.5	40.3	40.4	40.5	40.7	40.7	40.7	40.6
<i>Overtime hours</i>	3.7	3.7	3.8	3.5	3.6	3.6	3.4	3.6	3.6	3.7	3.8	3.8	3.8
DURABLE GOODS	40.7	41.3	41.4	41.0	41.2	41.2	41.0	41.1	41.2	41.4	41.5	41.4	41.4
<i>Overtime hours</i>	4.0	3.9	4.0	3.7	3.7	3.8	3.6	3.8	3.9	4.0	4.1	4.2	4.2
Lumber and wood products	39.6	39.9	40.2	39.5	40.0	39.8	39.3	39.6	40.1	40.1	40.1	40.0	39.5
Furniture and fixtures	40.0	40.1	40.1	39.4	39.5	39.3	39.0	38.8	39.0	39.2	39.2	39.1	38.8
Stone, clay, and glass products	40.9	41.8	42.0	41.6	41.9	41.7	41.6	41.8	41.8	41.9	42.0	41.3	41.5
Primary metal industries	41.6	41.5	41.5	41.7	41.8	41.8	42.0	41.8	42.1	42.3	42.2	42.2	41.8
Fabricated metal products	40.7	41.3	41.4	41.1	41.0	41.0	40.9	40.9	40.8	41.1	41.4	41.2	41.3
Machinery, except electrical	41.8	42.3	42.3	42.1	42.3	42.2	41.8	41.9	42.0	42.2	42.5	42.1	42.5
Electric and electronic equipment	40.0	40.6	40.4	40.2	40.2	40.7	40.4	40.1	40.3	40.4	40.5	40.6	40.7
Transportation equipment	40.9	42.1	42.4	41.8	42.0	42.1	41.8	42.5	42.6	42.9	42.9	43.0	42.8
Instruments and related products	40.6	41.3	41.4	40.8	40.8	40.7	41.0	40.9	40.9	40.9	40.9	41.2	41.2
Miscellaneous manufacturing ind	38.3	39.0	39.1	38.8	38.8	38.8	39.0	39.0	38.8	38.8	38.8	39.0	38.8
NONDURABLE GOODS	39.1	39.7	39.8	39.5	39.4	39.4	39.3	39.4	39.3	39.6	39.5	39.6	39.4
<i>Overtime hours</i>	3.3	3.3	3.4	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.3	3.2	3.2
Food and kindred products	39.7	40.0	40.1	39.8	39.6	39.8	39.5	39.5	39.9	40.0	40.0	40.1	39.6
Tobacco manufactures	38.3	38.9	38.7	38.7	39.6	38.6	37.7	37.9	36.7	37.4	38.1	36.8	36.3
Textile mill products	40.3	40.8	40.9	40.5	40.3	40.2	40.4	40.4	40.3	40.4	40.4	40.9	40.1
Apparel and other textile products	35.5	36.0	36.3	35.9	35.8	35.8	35.6	35.7	35.2	35.7	35.6	35.3	35.5
Paper and allied products	42.5	43.4	43.5	42.9	42.9	42.9	42.7	42.7	42.6	43.1	42.7	42.9	43.0
Printing and publishing	37.4	38.0	37.9	37.3	37.5	37.6	37.4	37.8	37.7	37.9	37.6	37.7	37.8
Chemicals and allied products	41.6	42.1	42.0	41.9	41.9	41.8	41.9	41.8	41.9	42.1	41.8	42.0	42.0
Petroleum and coal products	42.8	43.3	43.6	42.9	43.4	43.9	44.3	43.8	43.9	44.2	43.7	44.2	44.9
Rubber and misc. plastics products	39.8	40.7	41.3	41.1	41.1	40.9	40.9	41.0	41.0	41.1	41.2	41.5	41.4
Leather and leather products	36.4	37.1	38.1	37.6	37.4	37.2	37.1	37.2	37.1	36.8	36.7	36.9	36.5
TRANSPORTATION AND PUBLIC UTILITIES	40.1	40.4	40.0	40.2	40.1	39.6	39.9	40.1	40.1	40.0	40.0	40.0	39.7
WHOLESALE AND RETAIL TRADE	32.7	33.0	33.0	32.9	32.8	32.9	32.8	32.8	32.9	32.8	32.9	32.4	32.6
WHOLESALE TRADE	38.7	38.9	39.0	38.7	38.8	38.7	38.8	39.0	38.9	38.8	38.9	38.7	38.8
RETAIL TRADE	30.9	31.2	31.2	31.1	31.0	31.1	30.9	30.9	31.0	30.9	31.0	30.5	30.7
FINANCE, INSURANCE, AND REAL ESTATE	36.3	36.3	36.7	36.3	36.5	36.6	36.5	36.5	36.6	36.3	36.3	36.3	36.2
SERVICES	32.9	33.0	33.0	32.9	32.8	32.8	32.7	32.8	32.8	32.7	32.5	32.6	32.6

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

p=preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

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

[1967=100]

Industry division and group	1978											1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. ^P	Feb. ^P
TOTAL PRIVATE	117.1	119.1	120.4	120.0	120.6	120.6	120.4	120.8	121.6	122.4	122.9	122.4	123.0
GOODS-PRODUCING	100.9	103.6	106.0	105.1	106.0	106.1	105.4	105.5	106.5	108.0	109.1	108.6	109.0
MINING	106.8	111.3	144.2	143.1	144.0	143.5	145.7	144.4	145.2	148.0	149.1	149.7	150.6
CONSTRUCTION	104.2	111.5	118.8	117.1	122.8	124.2	122.8	122.6	123.8	124.3	126.5	120.6	120.7
MANUFACTURING	100.1	102.0	102.5	101.6	101.7	101.6	101.0	101.2	102.1	103.7	104.6	105.1	105.4
DURABLE GOODS	101.9	103.9	104.2	103.5	103.8	104.0	103.5	103.9	105.5	107.1	108.3	108.7	109.7
Lumber and wood products	114.0	114.3	115.0	111.8	113.6	112.3	110.7	111.6	113.9	115.3	116.2	116.8	116.2
Furniture and fixtures	111.1	112.5	112.5	110.3	109.5	108.3	106.4	106.2	107.5	108.6	109.4	109.7	109.1
Stone, clay, and glass products	108.4	111.0	112.7	111.4	112.4	111.1	109.8	110.1	110.8	112.0	113.3	111.2	113.3
Primary metal industries	93.4	92.8	92.9	93.9	94.1	94.4	95.3	95.5	96.9	99.0	99.2	99.1	99.2
Fabricated metal products	101.4	102.9	103.5	103.3	102.4	102.0	101.8	102.0	103.1	105.2	106.8	106.5	107.6
Machinery, except electrical	107.1	109.4	110.1	109.5	111.3	112.1	110.8	111.5	113.6	114.5	116.9	116.9	119.5
Electric and electronic equipment	98.8	101.2	100.4	99.8	99.8	101.8	101.1	100.1	101.4	102.6	103.4	104.7	106.2
Transportation equipment	93.7	97.2	97.5	96.6	95.8	96.2	96.1	97.7	100.4	102.8	103.8	104.9	105.5
Instruments and related products	117.5	120.5	121.7	120.8	122.4	123.6	123.9	123.9	124.5	125.7	126.9	129.4	131.9
Miscellaneous manufacturing ind	99.0	102.0	102.6	101.5	101.4	99.8	100.6	100.3	100.9	101.8	101.5	102.9	100.6
NONDURABLE GOODS	97.4	99.2	99.9	98.9	98.7	98.1	97.2	97.2	97.2	98.8	99.1	99.9	99.2
Food and kindred products	94.7	96.2	96.4	94.6	94.0	93.6	91.4	91.3	92.2	94.6	96.1	96.7	94.4
Tobacco manufactures	79.4	82.0	80.2	81.5	84.1	78.6	71.5	74.5	73.5	73.5	77.6	74.9	72.6
Textile mill products	92.5	93.7	93.4	92.6	91.8	91.5	91.2	91.8	91.6	92.4	92.2	93.4	91.1
Apparel and other textile products	90.1	91.6	93.2	91.9	91.4	90.1	90.1	90.1	88.7	90.0	89.8	89.5	89.2
Paper and allied products	99.1	101.6	102.4	101.9	101.9	101.9	99.2	99.0	98.2	100.5	100.7	101.9	102.7
Printing and publishing	96.9	99.3	99.1	98.2	98.6	99.1	98.3	97.8	98.5	100.3	100.1	101.1	102.3
Chemicals and allied products	104.8	106.0	106.5	106.9	106.4	106.6	106.0	106.0	106.2	107.2	107.0	108.2	108.7
Petroleum and coal products	119.0	121.3	122.1	118.4	120.4	121.2	123.2	122.7	123.0	124.7	124.2	126.5	129.4
Rubber and misc. plastics products	140.1	144.5	147.3	146.6	147.0	146.2	145.4	145.0	147.0	149.6	152.3	153.9	154.3
Leather and leather products	67.8	69.1	71.3	70.4	70.1	67.1	69.1	69.6	68.8	67.3	66.5	66.5	64.9
SERVICE-PRODUCING	128.4	129.8	130.5	130.5	130.7	130.7	130.8	131.4	132.0	132.3	132.5	132.0	132.8
TRANSPORTATION AND PUBLIC UTILITIES	107.7	109.1	108.7	109.0	109.4	106.5	107.7	108.2	109.9	110.2	110.3	110.4	110.5
WHOLESALE AND RETAIL TRADE	124.2	125.9	126.4	126.8	126.8	127.4	127.2	127.5	128.2	128.4	128.7	127.4	129.0
WHOLESALE TRADE	123.9	125.3	126.0	125.2	126.1	125.7	126.1	127.1	127.4	127.6	128.5	128.0	128.9
RETAIL TRADE	124.4	126.1	126.6	127.3	127.0	128.0	127.7	127.7	128.5	128.7	128.8	127.1	129.0
FINANCE, INSURANCE, AND REAL ESTATE	135.1	135.4	137.5	136.2	137.9	139.0	139.2	139.6	140.5	140.6	140.9	141.7	141.7
SERVICES	141.8	143.3	144.1	143.8	143.9	144.1	144.1	145.1	145.0	145.6	145.4	145.4	145.9

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

p=preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

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

Industry	1978											1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. P	Feb. P
Average hourly earnings													
TOTAL PRIVATE	\$5.49	\$5.54	\$5.61	\$5.62	\$5.66	\$5.71	\$5.73	\$5.77	\$5.82	\$5.87	\$5.91	\$5.94	\$5.97
MINING	6.92	6.94	7.63	7.66	7.71	7.85	7.88	7.88	7.99	8.03	8.03	8.12	8.19
CONSTRUCTION	8.35	8.47	8.47	8.59	8.65	8.66	8.72	8.75	8.77	8.82	8.86	8.92	9.01
MANUFACTURING	5.98	6.01	6.05	6.08	6.12	6.18	6.20	6.25	6.32	6.38	6.43	6.44	6.50
TRANSPORTATION AND PUBLIC UTILITIES	7.38	7.40	7.49	7.50	7.52	7.53	7.58	7.65	7.66	7.68	7.81	7.79	7.83
WHOLESALE AND RETAIL TRADE	4.50	4.55	4.60	4.60	4.63	4.67	4.70	4.73	4.77	4.81	4.84	4.92	4.92
FINANCE, INSURANCE, AND REAL ESTATE	4.71	4.75	4.84	4.84	4.89	4.95	4.92	4.98	5.03	5.06	5.08	5.09	5.10
SERVICES	4.87	4.90	4.95	4.94	4.96	5.01	5.02	5.05	5.10	5.11	5.14	5.20	5.21
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	195.99	199.44	202.52	201.76	203.19	204.99	205.13	206.57	208.94	210.15	212.17	212.06	213.13
1967 dollars ²	103.81	104.86	105.59	104.32	104.20	104.48	103.97	103.86	104.16	104.14	104.41	103.34	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) ^{2, 3}	92.65	93.33	93.76	92.69	92.48	92.60	92.13	91.94	92.04	91.95	92.06	91.96	-

¹ For coverage of series, see footnote 1, table B-2.
² A major revision in the CPI was introduced beginning with the January 1978 data (see note on table C-5, and Explanatory Notes).
The seasonally adjusted Consumer Price Index has been revised to reflect experience through December 1978. The seasonally adjusted real earnings series have been revised accordingly. The revision affects the seasonally adjusted series from January 1974 forward. See page 13 for revised historical data.
³ 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 1978	January 1979P	February 1979P	Feb. 1978 to Feb. 1979	Dec. 1978 to Jan. 1979	Jan. 1979 to Feb. 1979
TOTAL	165,472	165,528	165,837	4.2	0.0	0.2
PRIVATE SECTOR	134,853	134,760	135,329	5.1	-0.1	0.4
MINING	2,058	2,039	2,052	33.9	-0.9	0.7
CONSTRUCTION	8,541	8,286	8,202	14.1	-3.0	-1.0
MANUFACTURING	43,518	43,707	43,871	4.7	0.4	0.4
DURABLE GOODS	26,676	26,781	26,945	6.7	0.4	0.6
NONDURABLE GOODS	16,842	16,926	16,926	1.7	0.5	0.0
TRANSPORTATION AND PUBLIC UTILITIES	10,315	10,306	10,370	3.3	-0.1	0.6
WHOLESALE AND RETAIL TRADE	33,666	33,564	33,922	4.0	-0.3	1.1
FINANCE, INSURANCE, AND REAL ESTATE	9,038	9,119	9,104	5.1	0.9	-0.2
SERVICES	27,716	27,739	27,808	3.4	0.1	0.2
GOVERNMENT	30,619	30,767	30,508	0.6	0.5	-0.8

¹ Data refer to hours of all employees—production workers, nonsupervisory workers and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods for Surveys and Studies*, BLS Bulletin 1910—Chapter 30, Productivity Measures: Private Economy and Major Sectors.
² "Annual rate" refers to total hours paid for 1 week in the month, expressed as a seasonally adjusted annual equivalent.

**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										
	1977	1978P	1976			1977				1978			
			II	III	IV	I	II	III	IV	I	II	III	IV
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	118.2	R118.6	116.1	117.1	117.2	117.9	117.4	118.9	119.0	117.6	118.0	119.0	119.6
Output	133.2	139.0	126.2	127.1	127.6	130.5	132.5	134.2	135.5	135.3	138.7	139.7	R142.3
Hours	112.6	R117.2	108.7	R108.5	R108.9	R110.7	112.9	112.9	R113.9	115.0	117.6	117.4	118.9
Compensation per hour	213.0	R232.7	194.8	199.3	203.6	207.5	210.5	215.3	218.8	225.2	229.6	235.4	240.3
Real compensation per hour	117.4	R119.1	115.0	116.1	117.3	117.2	116.4	117.6	118.2	119.3	118.6	119.0	119.1
Unit labor costs	180.2	196.3	167.7	170.1	173.8	176.0	179.3	181.1	183.9	191.4	194.6	197.8	R200.8
Unit nonlabor payments	164.7	R172.0	158.3	159.0	158.4	160.3	164.0	167.0	167.8	162.1	171.3	174.9	R179.5
Implicit price deflator	174.9	187.9	164.5	166.3	168.5	170.6	174.0	176.3	178.4	181.3	186.6	189.9	R193.5
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	115.8	R116.4	114.4	115.2	114.9	115.6	115.2	116.2	116.4	115.5	116.0	116.6	117.3
Output	133.6	139.9	126.9	127.7	128.1	131.0	133.0	134.6	135.8	136.1	139.8	140.6	R143.2
Hours	115.4	R120.2	110.9	110.9	111.5	113.3	115.5	115.8	116.7	117.8	120.6	120.5	R122.0
Compensation per hour	209.3	R228.7	191.7	195.8	199.9	203.9	207.1	211.2	215.1	221.4	225.8	231.0	236.1
Real compensation per hour	115.3	R117.1	113.1	114.1	115.1	115.1	114.5	115.3	116.2	117.3	116.6	116.9	117.0
Unit labor costs	180.8	R196.5	167.5	170.1	173.9	176.4	179.8	181.7	184.8	191.7	194.7	198.1	R201.2
Unit nonlabor payments	162.6	R168.1	155.5	157.4	157.2	157.7	161.7	166.1	165.1	159.2	167.1	171.3	R174.5
Implicit price deflator	174.6	186.8	163.4	165.7	168.2	170.0	173.6	176.4	178.1	180.6	185.3	188.9	R192.1
MANUFACTURING:													
Output per hour of all persons	126.1	R129.1	123.3	124.1	123.9	123.7	125.6	127.6	127.5	125.9	128.4	131.7	R132.3
Output	126.9	134.8	119.2	120.0	120.3	122.6	126.6	128.6	129.8	129.7	134.1	137.2	R139.8
Hours	100.6	R104.4	96.7	96.7	97.1	99.1	100.7	100.8	101.8	103.1	104.5	104.2	R105.7
Compensation per hour	212.2	R232.5	193.7	196.9	200.9	205.6	209.7	214.4	218.9	225.0	229.1	234.9	R240.4
Real compensation per hour	116.9	119.0	114.4	114.7	115.7	116.1	116.0	117.1	118.2	119.2	118.3	118.8	R119.2
Unit labor costs	168.3	R180.0	157.1	158.7	162.2	166.3	166.9	168.0	171.7	178.8	178.5	178.4	R181.7
DURABLE GOODS													
Output per hour of all persons	R120.4	R122.9	118.6	119.5	118.4	117.9	120.4	121.9	121.6	119.4	122.7	125.7	R125.7
Output	121.4	130.5	113.3	114.8	114.4	116.3	121.0	123.5	124.8	124.4	129.5	133.5	R136.4
Hours	100.8	R106.2	95.5	96.1	96.6	98.7	100.5	101.3	102.7	104.1	105.6	106.2	R108.5
Compensation per hour	214.3	R234.6	195.8	198.5	201.7	207.1	211.8	216.4	221.5	227.0	231.2	237.0	R242.8
Real compensation per hour	118.0	R120.1	115.6	115.7	116.2	116.9	117.1	118.2	119.6	120.3	119.4	119.9	R120.4
Unit labor costs	177.9	R190.8	165.1	166.2	170.3	175.7	175.9	177.5	182.2	190.1	188.4	188.5	R193.1
NONDURABLE GOODS													
Output per hour of all persons	135.3	R139.3	130.9	131.5	132.7	133.1	134.1	136.9	137.3	136.4	137.7	141.6	R143.1
Output	135.7	R141.7	128.9	128.5	129.8	132.6	135.5	136.9	138.0	138.3	141.5	143.2	145.3
Hours	100.3	101.7	98.4	97.7	97.9	99.7	101.0	100.9	100.5	101.4	102.8	101.1	R101.5
Compensation per hour	208.6	227.7	190.8	194.5	199.7	203.4	206.3	210.6	214.0	221.0	224.8	230.1	R234.3
Real compensation per hour	115.0	116.5	112.6	113.3	115.0	114.8	114.1	115.0	115.6	117.1	116.1	116.4	116.2
Unit labor costs	154.2	R163.4	145.8	147.9	150.5	152.8	153.9	153.8	155.9	162.1	163.3	162.5	R163.7
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	116.6	P117.9	115.5	115.9	115.2	115.7	116.2	117.4	117.3	116.6	117.8	118.2	N.A.
Output	141.0	P148.6	134.1	134.4	134.2	137.5	140.5	142.3	143.6	143.6	148.8	149.3	N.A.
Hours	120.9	P126.0	116.1	116.0	116.6	118.8	121.0	121.2	122.4	123.2	126.3	126.3	N.A.
Compensation per hour	207.5	P226.8	189.7	194.1	198.3	201.6	205.4	209.6	213.3	219.7	224.1	229.2	N.A.
Real compensation per hour	114.3	P116.1	112.0	113.0	114.2	113.9	113.6	114.5	115.2	116.4	115.7	116.0	N.A.
Total unit costs	182.0	P194.7	169.8	172.8	177.3	178.8	180.8	182.5	185.6	191.5	192.6	196.2	N.A.
Unit labor costs	177.9	P192.3	164.3	167.4	172.2	174.3	176.8	178.5	181.9	188.5	190.2	194.0	N.A.
Unit nonlabor costs	194.5	P202.1	186.9	189.4	193.0	192.6	193.1	195.0	197.1	201.1	200.1	203.2	N.A.
Unit profits	120.2	P125.7	115.5	114.7	105.6	108.8	120.1	128.3	122.9	104.5	127.8	130.0	N.A.
Implicit price deflator	172.8	P184.5	161.7	164.2	166.6	168.4	171.8	174.5	176.3	178.6	183.0	186.4	N.A.

p=preliminary.
r=revised.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

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

Item	Quarterly percent change						Annual percent change					
	II 1977 to III 1977	III 1977 to IV 1977	IV 1977 to I 1978	I 1978 to II 1978	II 1978 to III 1978	III 1978 to IV 1978	III 1976 to III 1977	IV 1976 to IV 1977	I 1977 to I 1978	II 1977 to II 1978	III 1977 to III 1978	IV 1978 to IV 1978
	PRIVATE BUSINESS SECTOR:											
Output per hour of all persons	5.1	0.4	-4.5	1.2	3.5	2.1	1.5	1.5	-0.2	0.5	0.1	0.5
Output	5.0	4.0	-0.6	10.5	3.0	R7.5	5.6	6.2	3.7	4.6	4.1	R5.0
Hours	-0.1	3.7	4.0	9.2	-0.4	R5.3	4.0	4.6	3.9	4.1	4.0	4.4
Compensation per hour	9.5	6.7	12.1	8.1	10.4	R8.6	8.0	7.5	8.5	9.1	9.3	9.8
Real compensation per hour	4.3	1.9	4.0	-2.5	1.7	R0.2	1.3	0.7	1.8	1.9	1.2	0.8
Unit labor costs	4.2	6.3	17.4	6.8	6.7	R6.4	6.5	5.8	8.8	8.5	9.2	9.2
Unit nonlabor payments	7.4	2.0	-13.1	24.8	8.8	R10.8	5.0	5.9	1.1	4.4	4.8	R6.9
Implicit price deflator	5.2	4.9	6.7	12.1	7.3	R7.8	6.0	5.9	6.3	7.2	7.7	R8.5
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	3.7	0.5	-3.1	1.7	2.3	2.3	0.9	1.3	-0.1	0.7	0.3	0.8
Output	5.0	3.5	0.7	11.6	2.1	R7.5	5.4	6.0	3.8	5.2	4.4	R5.4
Hours	1.3	3.0	3.9	9.8	-0.2	R5.1	4.4	4.7	3.9	4.5	4.1	R4.6
Compensation per hour	8.1	7.6	12.2	8.2	9.6	R9.0	7.8	7.6	8.6	9.0	9.4	R9.7
Real compensation per hour	2.9	2.8	4.0	-2.4	0.9	0.6	1.1	0.9	1.9	1.8	1.3	R0.7
Unit labor costs	4.2	7.1	15.7	6.4	7.1	R6.5	6.8	6.3	8.7	8.3	9.0	8.9
Unit nonlabor payments	11.5	-2.4	-13.5	21.3	10.5	R7.7	5.5	5.0	0.9	3.4	3.1	R5.7
Implicit price deflator	6.5	4.0	5.8	10.8	8.1	R6.9	6.4	5.9	6.2	6.7	7.1	7.9
MANUFACTURING:												
Output per hour of all persons	6.5	-0.3	-5.1	8.3	10.8	R1.8	2.9	2.9	1.8	2.2	3.2	R3.7
Output	6.6	4.0	-0.5	14.3	9.6	R7.8	7.1	7.9	5.8	6.0	6.7	R7.7
Hours	0.1	4.3	4.9	5.6	-1.1	R5.9	4.1	4.8	4.0	3.7	3.4	R3.8
Compensation per hour	9.2	8.8	11.6	7.4	10.6	R9.7	8.9	9.0	9.4	9.2	9.6	R9.8
Real compensation per hour	3.9	4.0	3.5	-3.1	1.8	R1.2	2.1	2.2	2.7	2.0	1.5	0.8
Unit labor costs	2.5	9.1	17.7	-0.8	-0.2	R7.7	5.8	5.9	7.6	6.9	6.2	5.9
DURABLE GOODS												
Output per hour of all persons	5.0	-1.1	-6.8	11.3	10.2	R0.1	2.0	2.6	1.3	1.9	3.1	R3.4
Output	8.3	4.5	-1.5	17.7	12.8	R8.9	7.5	9.1	6.9	7.0	8.1	R9.2
Hours	3.1	5.7	5.7	5.7	2.3	R8.8	5.4	6.3	5.5	5.1	4.8	R5.6
Compensation per hour	9.0	9.8	10.4	7.5	10.4	R10.3	9.0	9.8	9.6	9.2	9.5	R9.7
Real compensation per hour	3.8	4.9	2.4	-3.0	1.7	R1.7	2.2	2.9	2.9	1.9	1.4	R0.7
Unit labor costs	3.8	11.0	18.5	-3.4	0.2	R10.1	6.8	7.0	8.2	7.1	6.2	R6.0
NONDURABLE GOODS												
Output per hour of all persons	8.6	1.0	-2.6	3.9	11.8	R4.5	4.1	3.5	2.5	2.6	3.4	4.3
Output	4.1	3.2	1.1	9.4	4.9	R6.1	6.6	6.2	4.3	4.4	4.6	5.3
Hours	-4.2	2.2	3.8	5.3	-6.2	R1.6	2.4	2.7	1.8	1.7	1.2	R1.0
Compensation per hour	R8.5	6.7	13.6	7.2	9.7	7.6	8.3	7.2	8.7	9.0	9.3	9.5
Real compensation per hour	3.3	1.9	5.3	-3.3	1.0	R-0.8	1.5	0.5	2.0	1.8	1.2	0.5
Unit labor costs	-0.1	5.6	16.6	3.2	-1.9	R3.0	4.0	3.6	6.0	6.1	5.7	R5.0
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	4.4	-0.5	-2.5	4.4	1.3	N.A.	1.3	1.8	0.8	1.4	0.6	N.A.
Output	5.2	3.6	-0.0	15.2	1.5	N.A.	5.9	7.0	4.5	5.9	4.9	N.A.
Hours	0.7	4.2	2.5	10.4	0.2	N.A.	4.5	5.0	3.7	4.4	4.3	N.A.
Compensation per hour	8.5	7.2	12.5	8.3	9.5	N.A.	8.0	7.5	8.9	9.1	9.4	N.A.
Real compensation per hour	3.3	2.4	4.3	-2.3	0.8	N.A.	1.3	0.8	2.2	1.9	1.3	N.A.
Total unit costs	3.9	6.8	13.6	2.3	7.7	N.A.	5.6	4.7	7.1	6.6	7.5	N.A.
Unit labor costs	3.9	7.7	15.3	3.8	8.1	N.A.	6.6	5.6	8.1	7.6	8.7	N.A.
Unit nonlabor costs	3.9	4.3	8.5	-2.0	6.3	N.A.	3.0	2.1	4.4	3.6	4.2	N.A.
Unit profits	30.4	-15.8	-47.8	123.6	7.3	N.A.	11.9	16.4	-4.0	6.4	1.3	N.A.
Implicit price deflator	6.4	4.2	5.5	10.2	7.6	N.A.	6.3	5.8	6.1	6.5	6.8	N.A.

p=preliminary.
r=revised.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
ALABAMA ¹	\$202.41	\$237.84	(*)	39.0	41.8	(*)	\$5.19	\$5.69	(*)
Birmingham	226.07	279.97	277.85	37.0	41.6	40.8	6.11	6.73	6.81
Mobile	260.00	279.05	(*)	41.6	41.9	(*)	6.25	6.66	(*)
ALASKA	457.55	396.98	(*)	41.9	41.7	(*)	10.92	9.52	(*)
ARIZONA	231.87	260.41	259.31	39.3	41.4	40.9	5.90	6.29	6.34
Phoenix	229.32	260.60	263.68	39.2	41.3	41.2	5.85	6.31	6.40
Tucson	220.38	234.99	230.30	38.8	40.1	39.3	5.68	5.86	5.86
ARKANSAS	158.01	198.80	195.55	34.5	40.0	38.8	4.58	4.97	5.04
Fayetteville-Springdale	162.79	179.38	179.55	39.9	40.4	39.9	4.08	4.44	4.50
Fort Smith	161.28	207.11	200.33	33.6	39.6	38.6	4.80	5.23	5.19
Little Rock-North Little Rock	175.93	227.48	226.55	32.4	39.7	39.4	5.43	5.73	5.75
Pine Bluff	215.97	268.18	271.12	37.3	42.5	42.1	5.79	6.31	6.44
CALIFORNIA	246.54	274.18	270.80	39.7	40.8	40.0	6.21	6.72	6.77
Anaheim-Santa Ana-Garden Grove	230.11	248.67	248.06	40.3	40.9	40.8	5.71	6.08	6.08
Bakersfield	259.26	276.32	273.60	40.7	38.7	38.0	6.37	7.14	7.20
Fresno	221.57	237.55	239.17	38.4	38.5	38.7	5.77	6.17	6.18
Los Angeles-Long Beach	232.58	257.51	254.97	40.1	41.4	40.6	5.80	6.22	6.28
Modesto	247.60	265.46	264.14	40.0	40.1	39.9	6.19	6.62	6.62
Oxnard-Simi Valley-Ventura	208.67	229.91	229.89	38.5	39.3	39.5	5.42	5.85	5.82
Riverside-San Bernardino-Ontario	251.54	279.50	276.40	39.8	40.1	40.0	6.32	6.97	6.91
Sacramento	262.19	291.40	285.48	38.9	39.7	39.0	6.74	7.34	7.32
Salinas-Seaside-Monterey	246.51	250.61	260.60	38.1	37.8	38.1	6.47	6.63	6.84
San Diego	231.77	255.84	252.20	38.5	39.3	38.8	6.02	6.51	6.50
San Francisco-Oakland	304.00	328.86	316.18	40.0	40.5	38.7	7.60	8.12	8.17
San Jose	264.14	289.76	281.90	39.9	41.1	40.1	6.62	7.05	7.03
Santa Barbara-Santa Maria-Lompoc	223.74	230.44	227.86	39.6	38.6	37.6	5.65	5.97	6.06
Santa Rosa	218.59	241.42	231.87	36.8	37.9	36.4	5.94	6.37	6.37
Stockton	277.29	296.80	291.21	39.5	40.0	39.3	7.02	7.42	7.41
Vallejo-Fairfield-Napa	249.17	285.53	279.72	38.1	38.9	37.8	6.54	7.34	7.40
COLORADO	240.99	252.16	254.38	40.3	39.4	39.5	5.98	6.40	6.44
Denver-Boulder	231.47	252.95	254.72	39.5	39.4	39.8	5.86	6.42	6.40
CONNECTICUT	239.04	267.46	265.17	41.5	43.0	42.7	5.76	6.22	6.21
Bridgeport	243.02	283.66	278.52	41.9	44.6	44.0	5.80	6.36	6.33
Hartford	261.67	306.40	295.99	41.8	44.6	43.4	6.26	6.87	6.82
New Britain	249.40	278.46	277.01	42.2	44.2	43.9	5.91	6.30	6.31
New Haven-West Haven	235.13	265.64	260.41	40.4	42.3	41.4	5.82	6.28	6.29
Stamford	237.80	264.58	262.26	41.0	42.4	42.3	5.80	6.24	6.20
Waterbury	200.33	233.38	229.15	40.8	42.9	42.2	4.91	5.44	5.43
DELAWARE	252.07	296.78	276.01	38.9	41.8	39.6	6.48	7.10	6.97
Wilmington	284.07	325.92	315.06	39.4	41.1	40.6	7.21	7.93	7.76
DISTRICT OF COLUMBIA:									
Washington SMSA	211.03	215.83	(*)	38.3	39.1	(*)	5.51	5.52	(*)
FLORIDA	198.70	217.56	216.41	40.8	42.0	41.3	4.87	5.18	5.24
Fort Lauderdale-Hollywood	190.24	201.06	203.94	41.0	40.7	41.2	4.64	4.94	4.95
Jacksonville	242.02	260.95	254.47	41.8	42.5	42.2	5.79	6.14	6.03
Miami	168.35	185.40	189.31	39.8	41.2	40.8	4.23	4.50	4.64
Orlando	215.69	233.28	234.90	41.4	43.2	42.4	5.21	5.40	5.54
Pensacola	247.70	278.60	273.06	41.7	43.6	42.8	5.94	6.39	6.38
Tampa-St. Petersburg	198.30	220.92	219.06	39.9	42.0	41.1	4.97	5.26	5.33
West Palm Beach-Boca Raton	239.36	262.78	263.80	44.0	45.7	46.2	5.44	5.75	5.71
GEORGIA	183.35	211.46	(*)	38.6	41.3	(*)	4.75	5.12	(*)
Atlanta	212.63	245.43	(*)	37.7	40.3	(*)	5.64	6.09	(*)
Savannah	251.76	285.80	(*)	42.1	43.7	(*)	5.98	6.54	(*)
HAWAII	224.10	239.32	242.56	37.6	38.6	37.9	5.96	6.20	6.40
Honolulu	219.23	235.75	241.70	36.6	37.6	37.3	5.99	6.27	6.48
IDAHO	313.23	254.77	(*)	42.5	37.8	(*)	7.37	6.74	(*)
Boise City	214.18	250.80	(*)	38.8	38.0	(*)	5.52	6.60	(*)

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. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
ILLINOIS	\$261.12	\$285.30	\$273.91	40.0	40.5	39.0	\$6.53	\$7.04	\$7.03
Bloomington—Normal	204.63	257.28	259.78	38.1	41.2	40.9	5.38	6.24	6.36
Champaign—Urbana—Rantoul	249.73	256.35	259.48	38.7	38.4	38.3	6.45	6.67	6.77
Chicago SMSA	261.09	278.92	266.19	40.8	40.8	38.8	6.39	6.84	6.86
Davenport—Rock Island—Moline	270.18	296.97	274.48	38.6	38.5	36.9	6.99	7.70	7.45
Decatur	294.00	332.59	327.26	42.4	43.3	42.2	6.93	7.67	7.76
Peoria	289.32	353.61	325.78	36.3	40.3	37.3	7.97	8.77	8.72
Rockford	275.51	299.08	286.99	42.7	43.4	41.2	6.48	6.90	6.97
Springfield	301.88	333.90	340.30	42.7	43.7	44.4	7.06	7.64	7.66
INDIANA ¹	281.76	316.35	312.77	40.6	41.9	41.1	6.94	7.55	7.61
Gary—Hammond—East Chicago	377.10	413.40	(*)	41.9	41.8	(*)	9.00	9.89	(*)
Indianapolis	281.19	322.90	(*)	41.1	42.6	(*)	6.84	7.58	(*)
IOWA	266.11	310.34	298.56	39.6	41.6	40.4	6.72	7.46	7.39
Cedar Rapids	266.74	309.21	305.14	40.6	42.3	41.8	6.57	7.31	7.30
Des Moines	264.65	331.57	304.20	37.7	42.4	38.9	7.02	7.82	7.82
Dubuque	328.25	345.54	341.88	39.5	39.4	39.8	8.31	8.77	8.59
Sioux City	218.83	282.38	283.40	37.6	42.4	41.8	5.82	6.66	6.78
Waterloo—Cedar Falls	336.18	480.85	376.98	40.7	51.1	41.2	8.26	9.41	9.15
KANSAS	225.20	263.13	(*)	40.0	41.7	(*)	5.63	6.31	(*)
Topeka	229.36	286.70	(*)	38.1	42.6	(*)	6.02	6.73	(*)
Wichita	239.40	280.87	(*)	40.1	42.3	(*)	5.97	6.64	(*)
KENTUCKY ¹	217.54	270.35	257.54	36.5	40.9	39.5	5.96	6.61	6.52
Louisville ¹	253.42	309.32	293.83	37.6	41.8	39.6	6.74	7.40	7.42
LOUISIANA ¹	252.76	282.63	(*)	40.9	42.5	(*)	6.18	6.65	(*)
Baton Rouge	321.84	346.80	359.48	43.2	42.5	40.3	7.45	8.16	8.92
New Orleans ¹	240.95	266.53	261.39	39.5	40.2	40.4	6.10	6.63	6.47
Shreveport ¹	219.75	254.15	244.37	40.1	42.5	39.8	5.48	5.98	6.14
MAINE ¹	187.23	213.61	209.20	39.5	41.0	40.0	4.74	5.21	5.23
Lewiston—Auburn ¹	148.74	169.02	168.14	37.0	38.5	37.7	4.02	4.39	4.46
Portland ¹	193.12	209.51	205.88	39.9	41.0	39.9	4.84	5.11	5.16
MARYLAND	242.30	281.40	273.36	38.4	41.2	40.2	6.31	6.83	6.80
Baltimore	255.42	299.71	287.65	38.7	41.8	40.4	6.60	7.17	7.12
MASSACHUSETTS	215.47	237.72	237.05	40.2	41.2	40.8	5.36	5.77	5.81
Boston	234.40	261.43	258.62	40.0	41.3	40.6	5.86	6.33	6.37
Brockton	166.50	185.94	183.11	37.5	38.9	37.6	4.44	4.78	4.87
Fall River	148.97	165.43	164.93	35.3	36.2	35.7	4.22	4.57	4.62
Lawrence—Haverhill	216.68	236.74	236.16	40.2	41.1	41.0	5.39	5.76	5.76
Lowell	184.47	210.12	200.06	39.5	40.8	38.4	4.67	5.15	5.21
New Bedford	179.36	199.69	199.02	38.0	39.7	39.1	4.72	5.03	5.09
Springfield—Chicopee—Holyoke	221.53	240.54	239.51	41.1	42.2	41.8	5.39	5.70	5.73
Worcester	222.60	248.35	245.78	40.4	41.6	41.1	5.51	5.97	5.98
MICHIGAN	326.92	394.24	(*)	41.8	45.9	(*)	7.82	8.59	(*)
Ann Arbor	369.79	385.96	(*)	43.5	43.4	(*)	8.50	8.89	(*)
Battle Creek	322.69	352.29	(*)	41.6	42.1	(*)	7.76	8.37	(*)
Bay City	343.25	364.89	(*)	46.7	46.2	(*)	7.35	7.90	(*)
Detroit	349.31	420.66	(*)	41.5	45.6	(*)	8.42	9.23	(*)
Flint	378.96	453.20	(*)	44.9	47.7	(*)	8.44	9.50	(*)
Grand Rapids	261.99	293.39	(*)	40.7	42.1	(*)	6.44	6.97	(*)
Jackson	282.80	339.00	(*)	41.6	45.4	(*)	6.80	7.47	(*)
Kalamazoo—Portage	275.93	323.08	(*)	39.6	42.2	(*)	6.97	7.66	(*)
Lansing—East Lansing	329.55	363.61	(*)	41.5	41.3	(*)	7.94	8.80	(*)
Muskegon—Norton Shores—Muskegon Heights	290.32	298.90	(*)	42.5	41.6	(*)	6.83	7.19	(*)
Saginaw	390.06	491.49	(*)	44.3	49.6	(*)	8.81	9.91	(*)
MINNESOTA ¹	249.32	275.67	275.00	39.7	40.9	40.5	6.28	6.74	6.79
Duluth—Superior	235.42	252.33	(*)	39.5	39.0	(*)	5.96	6.47	(*)
Minneapolis—St. Paul ¹	267.73	299.41	296.74	40.2	41.7	41.1	6.66	7.18	7.22
MISSISSIPPI ¹	165.94	192.10	191.18	37.8	40.7	39.5	4.39	4.72	4.84
Jackson ¹	189.85	217.94	213.44	39.8	42.4	40.5	4.77	5.14	5.27

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. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
MISSOURI	\$233.22	\$268.45	\$260.25	39.0	41.3	40.1	\$5.98	\$6.50	\$6.49
Kansas City	268.27	306.35	298.66	40.1	41.8	40.8	6.69	7.33	7.32
St. Joseph	212.74	238.20	229.63	38.4	39.7	38.4	5.54	6.00	5.98
St. Louis	269.68	312.38	297.92	39.6	42.5	40.7	6.81	7.35	7.32
Springfield	191.38	226.63	217.54	38.2	39.9	38.3	5.01	5.68	5.68
MONTANA	322.77	341.01	344.00	43.5	42.1	43.6	7.42	8.10	7.89
NEBRASKA ¹	231.01	256.06	258.54	40.6	41.5	41.3	5.69	6.17	6.26
Lincoln	222.51	255.84	246.89	38.9	40.1	38.1	5.72	6.38	6.48
Omaha	252.74	272.99	269.43	41.5	41.3	40.7	6.09	6.61	6.62
NEVADA ¹	248.32	264.60	255.84	38.8	37.8	38.3	6.40	7.00	6.68
Las Vegas	308.03	336.76	(*)	39.9	39.9	(*)	7.72	8.44	(*)
NEW HAMPSHIRE ¹	188.02	210.23	207.32	39.5	40.9	40.1	4.76	5.14	5.17
Manchester	166.37	182.21	178.94	38.6	39.1	38.4	4.31	4.66	4.66
Nashua	212.45	230.87	223.41	40.7	41.9	40.4	5.22	5.51	5.53
NEW JERSEY	245.83	274.33	269.57	40.7	42.4	41.6	6.04	6.47	6.48
Atlantic City	191.89	196.58	188.55	37.7	40.2	39.2	5.09	4.89	4.81
Camden	243.20	264.18	263.33	40.0	41.8	41.6	6.08	6.32	6.33
Hackensack	231.57	257.11	249.99	41.5	43.8	42.3	5.58	5.87	5.91
Jersey City	242.14	272.66	276.30	39.5	41.5	41.3	6.13	6.57	6.69
New Brunswick—Perth Amboy—Sayreville	266.09	297.79	280.67	41.0	42.3	40.5	6.49	7.04	6.93
Newark	246.43	276.92	271.35	40.8	43.0	42.2	6.04	6.44	6.43
Paterson—Clifton—Passaic	231.24	252.54	249.08	39.8	41.4	40.9	5.81	6.10	6.09
Trenton	250.57	290.96	271.08	39.9	42.6	40.4	6.28	6.83	6.71
NEW MEXICO ¹	182.62	200.66	206.33	39.7	39.5	39.3	4.60	5.08	5.25
Albuquerque	190.24	202.07	204.44	41.0	39.7	38.5	4.64	5.09	5.31
NEW YORK ¹	231.27	258.22	255.76	39.0	40.6	39.9	5.93	6.36	6.41
Albany—Schenectady—Troy	244.53	278.12	269.72	39.0	40.9	39.9	6.27	6.80	6.76
Binghamton	214.25	238.52	231.49	40.5	41.7	40.9	5.29	5.72	5.66
Buffalo	303.16	351.42	346.09	40.1	42.7	41.9	7.56	8.23	8.26
Elmira	228.67	252.94	251.83	39.7	40.6	40.1	5.76	6.23	6.28
Monroe County	303.73	354.47	354.53	41.1	43.6	43.5	7.39	8.13	8.15
Nassau—Suffolk	217.32	237.15	233.05	38.6	40.4	39.5	5.63	5.87	5.90
New York—Northeastern New Jersey	222.69	242.80	(*)	39.0	40.4	(*)	5.71	6.01	(*)
New York and Nassau—Suffolk	204.17	219.63	218.50	37.6	38.6	38.0	5.43	5.69	5.75
New York SMSA	200.14	215.83	215.27	37.2	38.2	37.7	5.38	5.65	5.71
New York City	197.78	212.24	213.18	36.9	37.9	37.4	5.36	5.60	5.70
Poughkeepsie	247.08	260.15	252.29	43.5	42.3	41.7	5.68	6.15	6.05
Rochester	284.31	330.91	332.05	40.5	43.2	42.9	7.02	7.66	7.74
Rockland County	232.26	255.55	247.39	42.0	42.1	41.3	5.53	6.07	5.99
Syracuse	256.40	287.22	286.54	40.0	42.3	42.2	6.41	6.79	6.79
Utica—Rome	223.20	246.74	242.17	40.0	41.4	40.7	5.58	5.96	5.95
Westchester County	222.55	241.38	227.03	39.6	40.5	39.9	5.62	5.96	5.69
NORTH CAROLINA ¹	165.79	188.79	183.38	38.2	40.6	39.1	4.34	4.65	4.69
Asheville	154.64	186.00	186.86	36.3	40.7	40.8	4.26	4.57	4.58
Charlotte—Gastonia	172.80	194.27	187.06	40.0	41.6	39.8	4.32	4.67	4.70
Greensboro—Winston-Salem—High Point	177.46	206.55	193.54	38.0	40.9	38.4	4.67	5.05	5.04
Raleigh—Durham	189.54	212.86	207.50	39.0	40.7	39.3	4.86	5.23	5.28
NORTH DAKOTA	205.98	228.40	217.74	38.5	40.0	38.2	5.35	5.71	5.70
Fargo—Moorhead	220.44	251.52	235.96	37.3	39.3	37.1	5.91	6.40	6.36
OHIO ¹	280.50	331.25	322.07	39.9	43.3	42.1	7.03	7.65	7.65
Akron	277.89	331.32	318.85	40.1	44.0	42.4	6.93	7.53	7.52
Canton	294.33	322.64	314.72	40.1	41.1	40.4	7.34	7.85	7.79
Cincinnati	260.80	312.33	300.12	40.0	43.5	41.8	6.52	7.18	7.18
Cleveland	287.03	353.68	340.13	39.7	44.6	43.0	7.23	7.93	7.91
Columbus	240.28	282.22	279.76	38.2	41.2	40.9	6.29	6.85	6.84
Dayton	288.64	351.08	331.70	41.0	45.3	42.8	7.04	7.75	7.75
Toledo	301.17	351.48	338.12	41.2	44.1	42.8	7.31	7.97	7.90
Youngstown—Warren	314.11	363.19	367.02	38.4	40.9	41.1	8.18	8.88	8.93

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. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
OKLAHOMA ¹	\$217.11	\$248.87	\$248.03	38.7	41.0	40.2	\$5.61	\$6.07	\$6.17
Oklahoma City ¹	217.80	242.00	251.65	39.6	40.2	40.2	5.50	6.02	6.26
Tulsa ¹	229.70	267.24	264.54	38.8	40.8	39.9	5.92	6.55	6.63
OREGON	270.74	293.61	277.82	38.9	39.2	36.7	6.96	7.49	7.57
Eugene—Springfield	302.40	332.91	(*)	40.7	41.1	(*)	7.43	8.10	(*)
Jackson County	275.42	301.09	(*)	39.8	38.8	(*)	6.92	7.76	(*)
Portland	256.70	284.97	(*)	38.2	39.8	(*)	6.72	7.16	(*)
PENNSYLVANIA ¹	238.62	274.55	268.25	38.8	41.1	39.8	6.15	6.68	6.74
Allentown—Bethlehem—Easton ¹	234.38	261.80	265.20	37.5	38.5	39.0	6.25	6.80	6.80
Altoona ¹	188.49	218.69	223.30	36.6	38.3	38.5	5.15	5.71	5.80
Delaware Valley ¹	244.22	281.95	276.86	38.4	41.1	40.3	6.36	6.86	6.87
Erie ¹	242.42	275.22	275.98	39.1	41.7	41.5	6.20	6.60	6.65
Harrisburg ¹	209.37	254.34	254.29	38.7	40.5	40.3	5.41	6.28	6.31
Johnstown ¹	283.73	281.08	277.85	41.3	39.7	39.3	6.87	7.08	7.07
Lancaster ¹	211.85	246.69	240.78	38.8	41.6	40.4	5.46	5.93	5.96
Northeast Pennsylvania ¹	173.15	192.24	188.71	35.7	37.4	36.5	4.85	5.14	5.17
Philadelphia SMSA ¹	244.58	279.34	274.59	38.7	41.2	40.5	6.32	6.78	6.78
Pittsburgh ¹	295.42	327.62	327.24	39.6	40.8	40.6	7.46	8.03	8.06
Reading ¹	214.70	241.25	241.64	37.8	39.1	38.6	5.68	6.17	6.26
Scranton ¹	188.00	205.71	200.98	37.6	40.1	38.8	5.00	5.13	5.18
Wilkes-Barre—Hazleton ¹	162.11	181.09	178.54	34.2	35.3	34.6	4.74	5.13	5.16
Williamsport ¹	217.88	245.23	241.60	39.4	40.4	40.0	5.53	6.07	6.04
York ¹	223.44	252.88	248.40	40.7	42.5	41.4	5.49	5.95	6.00
RHODE ISLAND ¹	174.50	195.91	195.42	38.1	39.9	39.4	4.58	4.91	4.96
Providence—Warwick—Pawtucket ¹	175.87	198.19	197.31	38.4	40.2	39.7	4.58	4.93	4.97
SOUTH CAROLINA ¹	180.10	203.01	198.53	40.2	41.6	40.6	4.48	4.88	4.89
Charleston—North Charleston ¹	204.12	235.83	230.32	40.5	42.8	41.8	5.04	5.51	5.51
Columbia ¹	181.25	196.50	197.38	40.1	40.6	40.2	4.52	4.84	4.91
Greenville—Spartanburg ¹	179.50	202.31	199.51	39.8	41.8	40.8	4.51	4.84	4.89
SOUTH DAKOTA	204.42	228.38	223.55	40.4	43.5	42.1	5.06	5.25	5.31
Rapid City	180.30	168.96	163.35	38.2	32.0	33.0	4.72	5.28	4.95
Sioux Falls	257.61	318.93	304.17	42.3	49.6	44.6	6.09	6.43	6.82
TENNESSEE ¹	182.52	217.34	(*)	36.0	40.7	(*)	5.07	5.34	(*)
Chattanooga ¹	184.24	226.63	(*)	35.5	42.6	(*)	5.19	5.32	(*)
Knoxville ¹	209.05	258.54	(*)	34.9	41.3	(*)	5.99	6.26	(*)
Memphis ¹	210.00	255.84	(*)	37.3	41.0	(*)	5.63	6.24	(*)
Nashville—Davidson ¹	200.19	232.98	(*)	36.8	40.1	(*)	5.44	5.81	(*)
TEXAS ¹	230.40	255.23	(*)	40.0	41.5	(*)	5.76	6.15	(*)
Amarillo ¹	241.43	248.22	249.55	43.5	42.0	41.8	5.55	5.91	5.97
Austin ¹	178.43	200.34	197.54	41.4	42.9	42.3	4.31	4.67	4.67
Beaumont—Port Arthur—Orange ¹	325.98	362.44	326.25	39.9	41.9	37.5	8.17	8.65	8.70
Corpus Christi ¹	275.81	283.91	295.90	41.6	40.5	41.5	6.63	7.01	7.13
Dallas—Fort Worth ¹	206.95	243.11	239.50	38.9	41.7	40.8	5.32	5.83	5.87
El Paso ¹	165.21	185.93	168.59	38.6	39.9	37.8	4.28	4.66	4.46
Galveston—Texas City ¹	363.35	398.79	393.60	43.0	43.3	43.3	8.45	9.21	9.09
Houston ¹	289.08	327.36	330.34	42.7	44.6	44.4	6.77	7.34	7.44
Lubbock ¹	166.66	199.79	198.39	38.4	42.6	42.3	4.34	4.69	4.69
San Antonio ¹	168.63	180.80	185.89	39.4	40.0	39.3	4.28	4.52	4.73
Waco ¹	191.35	232.48	217.34	39.7	43.7	40.1	4.82	5.32	5.42
Wichita Falls ¹	201.69	230.33	234.35	40.5	41.5	41.7	4.98	5.55	5.62
UTAH	213.59	236.61	239.12	39.7	39.7	39.2	5.38	5.96	6.10
Salt Lake City—Ogden	204.11	231.58	232.43	40.1	40.7	39.8	5.09	5.69	5.84
VERMONT ¹	201.46	221.84	219.76	40.7	41.7	41.0	4.95	5.32	5.36
Burlington ¹	241.36	248.08	244.07	43.1	43.6	42.3	5.60	5.69	5.77
Springfield ¹	223.86	273.50	264.31	41.0	44.4	43.4	5.46	6.16	6.09
VIRGINIA	189.63	219.10	214.58	37.7	40.8	39.3	5.03	5.37	5.46
Bristol	163.06	195.58	191.72	33.9	38.5	37.3	4.81	5.08	5.14
Lynchburg	189.38	214.80	209.66	37.5	40.3	38.4	5.05	5.33	5.46
Norfolk—Virginia Beach—Portsmouth	216.22	261.08	248.95	39.6	42.8	41.7	5.46	6.10	5.97
Northern Virginia ¹⁰	214.18	252.15	244.38	36.8	41.0	39.1	5.82	6.15	6.25
Petersburg-Colonial Heights-Hopewell	228.75	265.02	246.18	37.5	42.2	37.7	6.10	6.28	6.53

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
VIRGINIA—Continued									
Richmond	\$234.60	\$273.42	\$263.06	39.1	42.0	40.1	\$6.00	\$6.51	\$6.56
Roanoke	168.63	199.26	194.33	36.5	41.0	39.1	4.62	4.86	4.97
WASHINGTON	280.52	(*)	(*)	38.8	(*)	(*)	7.23	(*)	(*)
Spattle—Everett	285.32	(*)	(*)	39.3	(*)	(*)	7.26	(*)	(*)
Spokane	243.71	(*)	(*)	38.5	(*)	(*)	6.33	(*)	(*)
Tacoma	282.55	(*)	(*)	38.6	(*)	(*)	7.32	(*)	(*)
WEST VIRGINIA	245.10	285.11	278.87	38.0	40.1	39.5	6.45	7.11	7.06
Charleston	296.67	312.28	315.78	42.2	42.2	42.5	7.03	7.40	7.43
Huntington—Ashland	253.50	309.25	304.50	36.9	39.8	39.7	6.87	7.77	7.67
Parkersburg—Marietta	264.37	293.34	294.67	39.4	41.2	40.7	6.71	7.12	7.24
Wheeling	258.33	314.06	289.52	39.2	41.0	40.1	6.59	7.66	7.22
WISCONSIN ¹¹	262.17	292.87	287.73	40.3	41.6	41.1	6.50	7.04	6.99
Appleton—Oshkosh ¹¹	259.91	287.55	285.57	41.7	42.8	42.2	6.23	6.72	6.76
Eau Claire ¹¹	256.80	285.51	278.42	40.4	41.1	40.2	6.35	6.95	6.93
Green Bay ¹¹	258.74	298.54	290.85	40.4	42.3	41.3	6.41	6.97	7.05
Kenosha ¹¹	283.86	321.74	301.36	38.2	39.7	39.4	7.44	8.11	7.66
La Crosse ¹¹	206.52	239.53	222.28	39.6	41.3	39.6	5.22	5.80	5.61
Madison ¹¹	271.83	287.64	279.62	39.4	40.6	39.6	6.91	7.08	7.06
Milwaukee ¹¹	293.12	325.18	318.19	41.1	42.2	41.3	7.13	7.71	7.70
Racine ¹¹	287.92	311.46	301.45	41.3	41.7	41.1	6.97	7.47	7.33
WYOMING	225.98	234.78	243.36	37.6	38.3	39.0	6.01	6.13	6.24
Casper	283.40	268.19	(*)	40.0	37.3	(*)	7.08	7.19	(*)
Cheyenne	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

¹ Revised to 1978 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.

¹¹ Revised to December 1977 benchmark; not strictly comparable with previously published data.

p=preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-1. Labor turnover rates in manufacturing, 1969 to date

(Per 100 employees)

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions													
1969	4.7	4.6	3.9	4.4	4.5	4.8	6.6	5.1	5.6	5.9	5.0	3.6	2.9
1970	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
1971	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972	4.5	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	5.2	4.6	3.9	3.1	2.3
1978	4.1	3.8	3.2	3.7	4.0	4.7	4.8	4.3	5.3	4.8	4.3	3.3	2.3
1979	-	4.0 ^P											
New hires													
1969	3.7	3.3	3.0	3.4	3.5	3.8	5.4	3.9	4.3	4.8	4.0	2.8	2.1
1970	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
1971	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972	3.3	2.6	2.5	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	2.9	2.2	1.6
1978	3.1	2.5	2.2	2.7	2.9	3.6	3.9	3.3	4.1	3.9	3.5	2.6	1.7
1979	-	2.8 ^P											
Recalls													
1976	1.0	1.4	1.0	1.2	1.0	1.0	.9	1.1	1.1	.8	.7	.7	.7
1977	.9	1.2	1.3	1.1	.9	.8	.8	.9	.9	.8	.6	.6	.5
1978	.7	1.0	.7	.8	.8	.8	.7	.8	.9	.8	.5	.5	.5
1979	-	.9 ^P											
Total separations													
1969	4.9	4.5	4.0	4.4	4.5	4.6	4.6	5.3	6.2	6.6	5.4	4.3	4.2
1970	4.8	4.8	4.3	4.4	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
1971	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972	4.3	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	4.2	5.1	4.8	3.8	3.4	3.3
1978	3.8	3.6	3.1	3.5	3.6	3.6	3.8	4.1	5.2	4.8	4.0	3.5	3.4
1979	-	3.8 ^P											
Quits													
1969	2.7	2.3	2.1	2.4	2.6	2.7	2.6	2.7	4.0	4.4	3.0	2.1	1.6
1970	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
1971	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972	2.3	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	3.4	3.0	2.3	1.7	1.3
1979	-	1.8 ^P											
Layoffs													
1969	1.2	1.2	1.0	1.0	.9	.9	1.0	1.6	1.1	1.1	1.3	1.3	1.8
1970	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
1971	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972	1.1	1.5	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	1.4	1.0	1.1	1.1	1.1	1.4
1978	.9	1.2	.9	.9	.7	.7	.7	1.0	.7	.8	.9	1.0	1.3
1979	-	1.1 ^P											

^P=preliminary.

ESTABLISHMENT DATA
LABOR TURNOVER

D-2. Labor turnover rates by industry

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P
—	MANUFACTURING	2.3	4.0	1.7	2.8	0.4	0.9	3.4	3.8	1.3	1.8	1.3	1.1
24, 25, 32-39	DURABLE GOODS	2.2	3.8	1.6	2.7	.4	.7	2.9	3.5	1.1	1.6	1.1	1.0
20-23, 26-31	NONDURABLE GOODS	2.6	4.3	1.9	2.9	.6	1.1	4.0	4.3	1.6	2.1	1.7	1.3
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	3.1	5.5	2.6	4.3	.4	1.1	4.9	5.8	2.3	3.1	1.7	1.5
242	Sawmills and planing mills	2.6	—	2.2	—	.2	—	3.7	—	2.0	—	.9	—
2421	Sawmills and planing mills, general	2.3	—	2.0	—	.2	—	3.2	—	1.9	—	.7	—
243	Millwork, plywood, and structural members	3.5	—	2.9	—	.6	—	4.1	—	2.2	—	1.0	—
2431	Millwork	4.0	—	2.8	—	1.1	—	3.8	—	2.2	—	.9	—
244	Wooden containers	5.4	—	4.7	—	.4	—	6.9	—	4.4	—	1.4	—
245	Wood buildings and mobile homes	2.9	—	2.5	—	.3	—	8.5	—	3.1	—	4.2	—
2451	Mobile homes	3.8	—	3.3	—	.4	—	8.7	—	3.7	—	3.5	—
249	Miscellaneous wood products	3.4	—	2.9	—	.2	—	4.5	—	2.3	—	1.2	—
25	FURNITURE AND FIXTURES	3.2	5.5	2.6	4.8	.3	.6	4.0	5.2	2.1	3.3	.9	.9
251	Household furniture	3.3	—	2.6	—	.4	—	4.2	—	2.4	—	.9	—
2511	Wood household furniture	3.4	—	2.8	—	.1	—	4.0	—	2.6	—	.4	—
2512	Upholstered household furniture	3.1	—	2.2	—	.8	—	4.0	—	2.0	—	1.1	—
2515	Mattresses and bedspings	2.7	—	2.3	—	.3	—	4.5	—	2.3	—	1.0	—
252	Office furniture	2.3	—	2.2	—	(1)	—	2.2	—	1.3	—	.1	—
254	Partitions and fixtures	4.1	—	3.5	—	.5	—	4.7	—	2.1	—	1.6	—
32	STONE, CLAY, AND GLASS PRODUCTS	2.2	3.9	1.6	2.3	.4	1.3	4.7	4.8	1.3	1.6	2.6	2.3
322	Glass and glassware, pressed or blown	1.4	—	.7	—	.4	—	4.0	—	.6	—	2.6	—
3221	Glass containers	1.0	—	.4	—	.4	—	3.7	—	.5	—	2.5	—
3229	Pressed and blown glass, nec	1.8	—	.9	—	.4	—	4.4	—	.6	—	2.6	—
323	Products of purchased glass	2.1	—	1.2	—	.9	—	5.0	—	.7	—	3.3	—
324	Cement, hydraulic .....	.7	—	.5	—	.1	—	1.2	—	.3	—	.3	—
325	Structural clay products	3.4	—	3.1	—	.2	—	4.5	—	2.5	—	1.3	—
326	Pottery and related products	2.1	—	1.7	—	.2	—	3.9	—	1.6	—	1.5	—
327	Concrete, gypsum, and plaster products	2.6	—	2.2	—	.4	—	6.9	—	1.9	—	4.2	—
329	Misc. nonmetallic mineral products	2.0	—	1.5	—	.4	—	2.5	—	.9	—	.9	—
33	PRIMARY METAL INDUSTRIES	1.7	2.9	1.0	1.8	.5	.8	1.8	2.5	.6	.9	.6	.6
331	Blast furnace and basic steel products	1.5	—	.4	—	.8	—	1.7	—	.2	—	.8	—
3312	Blast furnaces and steel mills	1.4	—	.3	—	.8	—	1.7	—	.2	—	.8	—
332	Iron and steel foundries	2.1	—	1.5	—	.4	—	2.3	—	1.1	—	.5	—
3321	Gray iron foundries	2.0	—	1.4	—	.5	—	2.2	—	1.1	—	.5	—
3325	Steel foundries, nec	2.4	—	1.7	—	.5	—	2.2	—	1.0	—	.2	—
333	Primary nonferrous metals .....	.9	—	.6	—	.1	—	.9	—	.3	—	.2	—
335	Nonferrous rolling and drawing	1.2	—	1.0	—	.1	—	1.3	—	.5	—	.3	—
3351	Copper rolling and drawing	1.3	—	1.1	—	.1	—	1.4	—	.6	—	.1	—
3353	Aluminum sheet, plate, and foil .....	.6	—	.2	—	.3	—	.7	—	.1	—	.2	—
3357	Nonferrous wire drawing and insulating	1.3	—	.9	—	.1	—	1.2	—	.4	—	.3	—
336	Nonferrous foundries	3.1	—	2.5	—	.4	—	2.6	—	1.3	—	.3	—
3361	Aluminum foundries	3.1	—	2.5	—	.3	—	2.4	—	1.3	—	.2	—
34	FABRICATED METAL PRODUCTS	2.4	4.0	1.8	3.0	.4	.8	3.2	3.9	1.3	1.8	1.1	1.1
341	Metal cans and shipping containers	3.7	—	.7	—	2.6	—	5.0	—	.6	—	3.7	—
3411	Metal cans	3.9	—	.5	—	3.0	—	5.2	—	.4	—	4.1	—
342	Cutlery, hand tools, and hardware	2.2	—	1.8	—	.2	—	2.9	—	1.3	—	.9	—
3423, 5	Hand and edge tools, and hand saws and blades	2.7	—	2.3	—	.3	—	2.6	—	1.5	—	.4	—
3429	Hardware, nec	1.9	—	1.6	—	.2	—	3.1	—	1.2	—	1.2	—
343	Plumbing and heating, except electric	2.3	—	1.7	—	.3	—	3.5	—	1.1	—	1.5	—
344	Fabricated structural metal products	2.5	—	2.1	—	.3	—	3.5	—	1.6	—	1.0	—
3441	Fabricated structural metal	3.3	—	2.7	—	.4	—	4.1	—	1.9	—	1.3	—
3442	Metal doors, sash, and trim	3.1	—	2.6	—	.4	—	4.8	—	2.7	—	1.1	—
3443	Fabricated plate work (boiler shops)	1.7	—	1.4	—	.2	—	1.7	—	.8	—	.3	—
3444	Sheet metal work	2.4	—	2.1	—	.3	—	3.4	—	1.6	—	1.0	—
345	Screw machine products, bolts, etc.	3.0	—	2.7	—	.2	—	2.6	—	1.6	—	.1	—
3451	Screw machine products	3.7	—	3.5	—	.2	—	3.2	—	2.2	—	.1	—
3452	Bolts, nuts, rivets, and washers	2.4	—	2.0	—	.2	—	2.1	—	1.0	—	.2	—
346	Metal forgings and stampings	1.9	—	1.2	—	.4	—	2.3	—	.8	—	.8	—
3462	Iron and steel forgings	1.9	—	1.4	—	.3	—	1.3	—	.5	—	.3	—
3465	Automotive stampings	1.2	—	.6	—	.3	—	2.4	—	.5	—	1.3	—
3469	Metal stampings, nec	2.5	—	1.8	—	.5	—	2.6	—	1.4	—	.5	—
347	Metal services, nec	3.2	—	2.4	—	.5	—	4.4	—	2.2	—	1.3	—
348	Ordnance and accessories, nec	1.3	—	.9	—	.2	—	1.2	—	.5	—	.3	—
349	Misc. fabricated metal products	2.5	—	2.0	—	.4	—	3.4	—	1.4	—	1.3	—
3494	Valves and pipe fittings	1.9	—	1.5	—	.3	—	1.9	—	1.0	—	.2	—
3496	Misc. fabricated wire products	3.5	—	3.1	—	.2	—	4.6	—	2.4	—	1.3	—

See footnotes at end of table.

ESTABLISHMENT DATA

LABOR TURNOVER

D-2. Labor turnover rates by industry

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
	MANUFACTURING	4.0	4.1	2.8	3.1	0.9	0.7	3.8	3.8	1.8	2.1	1.1	0.9
24, 25, 32-39	DURABLE GOODS	3.7	3.8	2.6	2.8	.8	.6	3.4	3.4	1.5	1.8	1.0	.7
20-23, 26-31	NONDURABLE GOODS	4.4	4.5	3.2	3.4	1.0	.9	4.4	4.5	2.3	2.5	1.4	1.2
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	6.3	6.0	5.2	5.1	.9	.8	5.9	5.9	3.6	3.8	1.1	.9
242	Sawmills and planing mills	5.0	4.8	4.1	4.1	.7	.5	4.8	4.8	3.0	3.2	.9	.6
2421	Sawmills and planing mills, general	4.5	4.3	3.7	3.6	.6	.5	4.4	4.3	2.7	2.8	.8	.6
243	Millwork, plywood, and structural members	6.1	5.9	5.1	5.2	.8	.5	5.4	5.7	3.2	3.7	1.0	.8
2431	Millwork	5.9	5.5	5.0	4.8	.8	.6	5.3	5.5	3.3	3.6	1.0	.9
244	Wooden containers	8.3	9.2	7.2	8.1	1.0	.9	8.1	8.9	6.1	7.0	1.0	.9
245	Wood buildings and mobile homes	11.4	9.9	10.2	8.4	1.0	1.4	10.8	10.1	6.4	6.3	1.6	1.6
2451	Mobile homes	12.9	10.8	11.6	9.6	1.0	1.1	12.2	10.9	7.2	7.2	1.4	1.1
249	Miscellaneous wood products	5.5	5.4	4.6	4.6	.7	.5	4.9	5.1	3.2	3.5	.8	.7
25	FURNITURE AND FIXTURES	5.6	5.8	4.6	5.2	.8	.4	5.2	5.7	3.2	3.8	1.0	.7
251	Household furniture	5.9	6.2	5.0	5.5	.7	.4	5.6	6.1	3.6	4.2	.8	.7
2511	Wood household furniture	6.2	6.5	5.4	6.0	.5	.3	5.9	6.4	4.1	4.7	.6	.4
2512	Upholstered household furniture	5.0	5.5	4.3	4.9	.6	.4	4.8	5.4	3.3	3.8	.7	.7
2515	Mattresses and bedsprings	5.6	5.9	4.6	5.3	.8	.4	4.9	5.7	3.0	3.6	.8	.7
252	Office furniture	4.6	4.0	3.6	3.6	.8	.3	3.8	3.5	2.1	2.3	.9	.3
254	Partitions and fixtures	5.7	6.5	4.5	5.8	1.1	.6	5.6	6.4	2.6	3.7	1.9	1.3
32	STONE, CLAY, AND GLASS PRODUCTS	4.5	4.1	2.9	3.1	1.3	.8	4.1	4.0	1.8	2.0	1.4	1.0
322	Glass and glassware, pressed or blown	3.3	2.8	1.7	1.7	1.3	.8	3.4	3.2	1.1	1.1	1.4	1.0
3221	Glass containers	3.2	2.8	1.9	1.8	1.1	.7	3.3	3.3	1.2	1.3	1.3	1.2
3229	Pressed and blown glass, nec	3.4	2.9	1.4	1.5	1.6	.9	3.4	3.1	.8	.8	1.5	.9
323	Products of purchased glass	5.0	4.5	2.7	3.5	2.0	.9	4.3	4.1	1.7	2.2	1.6	.9
324	Cement, hydraulic	2.6	1.9	1.1	1.2	1.3	.6	2.6	1.8	.6	.6	1.4	.5
325	Structural clay products	6.3	6.0	4.5	5.2	1.6	.7	5.8	5.5	3.1	3.8	1.7	.7
326	Pottery and related products	4.6	4.0	3.5	3.3	.8	.4	4.6	4.0	2.3	2.3	1.0	.6
327	Concrete, gypsum, and plaster products	5.8	5.6	4.2	4.3	1.4	1.1	5.2	5.2	2.4	2.7	1.8	1.5
329	Misc. nonmetallic mineral products	3.4	3.2	2.3	2.6	.9	.4	3.2	3.0	1.3	1.5	1.1	.6
33	PRIMARY METAL INDUSTRIES	3.0	2.9	1.6	1.8	1.2	.8	2.9	2.5	.8	1.0	1.2	.6
331	Blast furnace and basic steel products	2.8	2.5	.8	1.1	1.7	1.1	2.9	2.2	.4	.5	1.6	.8
3312	Blast furnaces and steel mills	2.8	2.5	.7	1.0	1.8	1.1	3.0	2.2	.4	.4	1.6	.8
332	Iron and steel foundries	3.5	3.6	2.5	2.8	.8	.6	3.2	3.1	1.3	1.6	.9	.5
3321	Gray iron foundries	3.4	3.3	2.4	2.6	.6	.5	3.0	3.0	1.4	1.6	.8	.5
3325	Steel foundries, nec	3.9	4.3	2.6	3.2	1.1	.9	3.5	3.6	1.3	1.6	1.2	.7
333	Primary nonferrous metals	1.8	1.7	1.1	1.2	.4	.3	1.7	1.6	.6	.6	.5	.3
335	Nonferrous rolling and drawing	2.4	2.2	1.5	1.6	.7	.3	2.2	1.9	.7	.8	.8	.4
3351	Copper rolling and drawing	2.5	2.8	1.9	2.4	.5	.3	2.3	2.2	.9	1.1	.7	.2
3353	Aluminum sheet, plate, and foil	1.8	1.4	1.0	1.0	.6	.3	1.4	1.1	.3	.3	.6	.3
3357	Nonferrous wire drawing and insulating	2.2	2.2	1.3	1.4	.5	.3	1.9	1.9	.6	.7	.5	.5
336	Nonferrous foundries	4.8	4.6	3.6	3.5	1.0	.8	4.2	4.2	2.1	2.1	1.1	.9
3361	Aluminum foundries	5.0	4.3	4.0	3.3	.8	.8	4.2	3.9	2.2	2.0	1.0	.8
34	FABRICATED METAL PRODUCTS	4.0	4.1	2.9	3.2	.8	.6	3.7	3.9	1.7	2.1	1.1	.9
341	Metal cans and shipping containers	5.0	4.1	1.6	1.7	2.8	1.9	5.3	4.4	.9	1.1	3.3	2.2
3411	Metal cans	5.2	3.9	1.3	1.2	3.2	2.1	5.6	4.4	.7	.7	3.8	2.5
342	Cutlery, hand tools, and hardware	3.6	3.8	2.8	3.1	.5	.3	3.0	3.5	1.6	2.0	.7	.7
3423, 5	Hand and edge tools, and hand saws and blades	3.6	3.6	2.9	3.1	.6	.3	3.0	3.2	1.7	1.9	.6	.4
3429	Hardware, nec	3.6	4.0	2.8	3.2	.4	.3	3.0	3.8	1.5	2.0	.7	.9
343	Plumbing and heating, except electric	4.2	3.9	3.4	3.2	.7	.5	3.5	3.9	1.8	2.0	.9	.9
344	Fabricated structural metal products	4.6	4.7	3.6	3.9	.9	.7	4.3	4.5	2.1	2.6	1.3	1.0
3441	Fabricated structural metal	4.7	5.3	3.3	4.2	1.2	1.0	4.8	5.0	1.9	2.6	1.8	1.3
3442	Metal doors, sash, and trim	7.3	6.5	6.1	5.6	1.0	.8	6.1	6.7	3.7	4.2	1.1	1.2
3443	Fabricated plate work (boiler shops)	2.5	2.7	1.9	2.2	.5	.4	2.5	2.6	1.1	1.4	.8	.5
3444	Sheet metal work	5.3	5.1	4.2	4.4	1.0	.6	4.7	4.6	2.2	2.7	1.6	1.0
345	Screw machine products, bolts, etc.	3.2	3.7	2.7	3.3	.3	.3	2.9	3.2	1.6	2.0	.4	.3
3451	Screw machine products	3.8	4.5	3.3	4.2	.3	.2	3.4	3.7	2.1	2.6	.5	.2
3452	Bolts, nuts, rivets, and washers	2.6	3.0	2.1	2.5	.3	.3	2.4	2.8	1.3	1.5	.4	.4
346	Metal forgings and stampings	3.4	3.3	2.2	2.3	.7	.6	3.1	3.2	1.2	1.4	1.1	.9
3462	Iron and steel forgings	2.5	2.4	1.5	2.0	.9	.3	2.3	2.0	.8	1.0	.7	.4
3465	Automotive stampings	3.4	3.0	1.7	1.3	.5	.7	2.8	3.1	.8	.9	1.2	1.5
3469	Metal stampings, nec	3.9	4.1	2.9	3.4	.8	.5	3.7	3.8	1.8	2.1	1.1	.7
347	Metal services, nec	5.7	6.2	4.7	5.3	.8	.7	5.4	5.9	2.9	3.5	1.2	.9
348	Ordnance and accessories, nec	2.2	2.4	1.4	1.6	.6	.6	2.2	1.8	.8	.8	.8	.4
349	Misc. fabricated metal products	3.7	3.8	2.8	3.2	.7	.4	3.3	3.6	1.7	2.1	.8	.6
3494	Valves and pipe fittings	2.8	2.7	2.3	2.2	.4	.3	2.4	2.5	1.2	1.4	.5	.4
3496	Misc. fabricated wire products	5.0	5.7	3.8	5.1	1.0	.5	4.4	5.0	2.6	3.5	.9	.6

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P
35	MACHINERY, EXCEPT ELECTRICAL	2.0	3.4	1.6	2.7	0.2	0.4	1.8	2.4	0.9	1.3	0.3	0.4
351	Engines and turbines	1.5	—	.7	—	.2	—	1.7	—	.3	—	.3	—
3511	Turbines and turbine generator sets	1.1	—	.4	—	(¹)	—	2.0	—	.1	—	.5	—
3519	Internal combustion engines, nec	1.7	—	.8	—	.3	—	1.5	—	.3	—	.1	—
352	Farm and garden machinery	2.4	—	1.8	—	.3	—	2.7	—	.8	—	1.1	—
3523	Farm machinery and equipment	2.4	—	1.7	—	.3	—	2.6	—	.8	—	1.1	—
353	Construction and related machinery	1.7	—	1.4	—	.1	—	1.5	—	.8	—	.2	—
3531	Construction machinery	1.4	—	1.1	—	.1	—	1.2	—	.5	—	.2	—
3533	Oil field machinery	2.5	—	2.3	—	.1	—	1.8	—	1.1	—	.1	—
354	Metalworking machinery	2.0	—	1.6	—	.2	—	1.8	—	.9	—	.3	—
3541	Machine tools, metal cutting types	1.4	—	1.2	—	.1	—	1.2	—	.6	—	.1	—
3544	Special dies, tools, jigs, and fixtures	2.3	—	1.7	—	.2	—	2.3	—	1.1	—	.4	—
3545	Machine tool accessories	2.2	—	1.8	—	.2	—	1.6	—	.9	—	.1	—
355	Special industry machinery	1.6	—	1.4	—	.1	—	1.5	—	.8	—	.1	—
3551	Food products machinery	1.6	—	1.5	—	.1	—	1.4	—	.7	—	.2	—
3552	Textile machinery	2.0	—	1.5	—	.2	—	2.1	—	1.1	—	.1	—
356	General industrial machinery	1.7	—	1.4	—	.2	—	1.5	—	.7	—	.2	—
3561	Pumps and pumping equipment	1.2	—	1.1	—	.1	—	1.3	—	.6	—	.2	—
3562	Ball and roller bearings	1.4	—	1.0	—	.1	—	1.1	—	.4	—	.2	—
3564	Blowers and fans	2.2	—	1.7	—	.4	—	1.6	—	1.0	(¹)	—	—
357	Office and computing machines	2.1	—	1.8	—	(¹)	—	1.4	—	.8	—	.1	—
3573	Electronic computing equipment	2.3	—	2.0	—	(¹)	—	1.4	—	.8	—	.1	—
358	Refrigeration and service machinery	2.1	—	1.4	—	.5	—	1.9	—	.9	—	.3	—
3585	Refrigeration and heating equipment	2.1	—	1.1	—	.6	—	2.0	—	.9	—	.3	—
359	Misc. machinery, except electrical	2.8	—	2.3	—	.3	—	2.7	—	1.5	—	.6	—
36	ELECTRIC AND ELECTRONIC EQUIPMENT	2.1	3.5	1.5	2.4	.2	.6	2.4	3.2	1.1	1.4	.6	.8
361	Electric distributing equipment	2.2	—	1.4	—	.3	—	2.0	—	.9	—	.2	—
3612	Transformers	2.0	—	1.4	—	.1	—	2.3	—	1.1	—	.3	—
3613	Switchgear and switchboard apparatus	2.3	—	1.4	—	.5	—	1.7	—	.7	—	.2	—
362	Electrical industrial apparatus	2.2	—	1.4	—	.2	—	2.0	—	.9	—	.3	—
3621	Motors and generators	2.0	—	1.4	—	.3	—	1.8	—	.8	—	.4	—
3622	Industrial controls	2.8	—	1.5	—	.2	—	2.3	—	.9	—	.2	—
363	Household appliances	2.2	—	1.0	—	.4	—	4.5	—	1.1	—	2.2	—
3632	Household refrigerators and freezers	2.0	—	.1	—	.7	—	4.8	—	.5	—	3.0	—
3633	Household laundry equipment	.9	—	.2	—	.3	—	2.3	—	.3	—	1.8	—
3634	Electric housewares and fans	2.5	—	1.9	—	.4	—	5.3	—	2.1	—	2.5	—
364	Electric lighting and wiring equipment	2.5	—	1.9	—	.2	—	2.8	—	1.3	—	.6	—
3641	Electric lamps	1.2	—	.7	—	.1	—	2.0	—	.5	—	.3	—
3643	Current-carrying wiring devices	2.4	—	1.9	—	.2	—	2.4	—	1.2	—	.4	—
365	Radio and TV receiving equipment	1.9	—	.9	—	.4	—	5.1	—	1.6	—	2.2	—
3651	Radio and TV receiving sets	1.9	—	.8	—	.4	—	4.9	—	1.4	—	1.9	—
366	Communication equipment	1.4	—	1.0	—	.1	—	1.3	—	.6	—	.1	—
3661	Telephone and telegraph apparatus	.7	—	.4	—	.2	—	1.0	—	.4	—	.2	—
3662	Radio and TV communication equipment	1.7	—	1.3	—	.1	—	1.4	—	.7	—	.1	—
367	Electronic components and accessories	2.7	—	2.2	—	.3	—	2.4	—	1.5	—	.2	—
3671-3	Electronic tubes	1.7	—	1.0	—	.1	—	1.8	—	.8	—	.2	—
3674	Semiconductors and related devices	2.1	—	1.7	—	.2	—	1.8	—	1.1	—	.1	—
3679	Electronic components, nec	3.2	—	2.7	—	.3	—	3.0	—	1.9	—	.3	—
369	Misc. electrical equipment and supplies	1.8	—	1.3	—	.2	—	2.1	—	1.1	—	.3	—
3694	Engine electrical equipment	1.6	—	1.2	—	.2	—	2.2	—	1.1	—	.4	—
37	TRANSPORTATION EQUIPMENT	1.8	—	1.1	—	.4	—	2.8	—	.7	—	1.4	—
371	Motor vehicles and equipment	1.3	—	.6	—	.3	—	2.6	—	.5	—	1.5	—
3711	Motor vehicles and car bodies	.9	—	.3	—	.2	—	2.9	—	.4	—	1.9	—
3713	Truck and bus bodies	2.6	—	1.8	—	.7	—	4.8	—	1.6	—	2.5	—
3714	Motor vehicle parts and accessories	1.4	—	.6	—	.4	—	1.8	—	.4	—	.7	—
3715	Truck trailers	3.0	—	2.7	—	.2	—	6.0	—	1.4	—	3.3	—
372	Aircraft and parts	1.4	—	1.0	—	.1	—	1.0	—	.4	—	(¹)	—
3721	Aircraft	1.1	—	.7	—	.2	—	.9	—	.4	—	(¹)	—
3724	Aircraft engines and engine parts	1.5	—	1.2	—	.1	—	.8	—	.3	—	(¹)	—
3728	Aircraft equipment, nec	2.0	—	1.8	—	.1	—	1.6	—	.8	—	(¹)	—
373	Ship and boat building and repairing	4.5	—	2.5	—	1.9	—	5.5	—	1.6	—	3.1	—
3731	Ship building and repairing	4.7	—	2.2	—	2.4	—	5.6	—	1.3	—	3.4	—
3732	Boat building and repairing	3.7	—	3.4	—	.2	—	5.2	—	2.5	—	1.8	—
374	Railroad equipment	2.0	—	1.1	—	.6	—	2.5	—	.5	—	.9	—
376	Guided missiles, space vehicles, parts	1.4	—	.7	—	.3	—	1.3	—	.5	—	.3	—
3761	Guided missiles and space vehicles	1.5	—	.7	—	.3	—	1.1	—	.5	—	.2	—
379	Miscellaneous transportation equipment	4.3	—	3.9	—	.3	—	8.9	—	2.9	—	5.0	—
38	INSTRUMENTS AND RELATED PRODUCTS	2.0	3.4	1.6	2.8	.2	.3	2.1	2.8	1.0	1.6	.3	.4
381	Engineering and scientific instruments	1.9	—	1.7	—	.1	—	1.9	—	.8	—	.1	—
382	Measuring and controlling devices	2.1	—	1.7	—	.2	—	1.8	—	1.0	—	.1	—
3822	Environmental controls	2.4	—	1.7	—	.4	—	1.8	—	.8	—	.3	—
3823	Process control instruments	1.7	—	1.3	—	.2	—	1.7	—	.8	—	.1	—
3825	Instruments to measure electricity	2.1	—	1.8	—	.1	—	1.7	—	1.2	—	.1	—

See footnotes at end of table.

ESTABLISHMENT DATA
LABOR TURNOVER

D-2. Labor turnover rates by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
35	MACHINERY, EXCEPT ELECTRICAL	2.9	3.0	2.1	2.4	0.5	0.3	2.5	2.5	1.1	1.3	0.7	0.4
351	Engines and turbines	2.3	2.0	1.1	1.1	.6	.3	1.9	1.9	.4	.5	.5	.4
3511	Turbines and turbine generator sets	1.2	1.5	.4	.6	(¹)	.1	1.5	1.7	.3	.3	.2	.3
3519	Internal combustion engines, nec	2.9	2.3	1.4	1.4	.9	.4	2.2	2.0	.5	.6	.7	.4
352	Farm and garden machinery	3.0	4.1	1.7	2.4	.9	1.2	3.5	3.9	1.1	1.5	1.5	1.4
3523	Farm machinery and equipment	3.0	3.8	1.6	2.2	.9	1.1	3.6	3.8	1.1	1.4	1.5	1.3
353	Construction and related machinery	2.9	2.8	1.9	2.4	.8	.3	2.6	2.2	1.0	1.2	1.0	.3
3531	Construction machinery	3.0	2.3	1.3	1.8	1.4	.3	2.7	1.6	.7	.8	1.5	.2
3533	Oil field machinery	3.5	3.9	3.0	3.6	.3	.1	2.9	3.0	1.7	1.9	.4	.1
354	Metalworking machinery	2.9	2.8	2.2	2.3	.4	.3	2.4	2.5	1.2	1.4	.5	.4
3541	Machine tools, metal cutting types	1.9	2.1	1.5	1.8	.3	.2	1.7	1.7	.8	.9	.3	.2
3544	Special dies, tools, jigs, and fixtures	3.6	3.3	3.0	2.7	.4	.3	2.9	3.0	1.6	1.6	.5	.5
3545	Machine tool accessories	2.5	2.9	2.0	2.5	.3	.2	2.1	2.4	1.1	1.5	.3	.2
355	Special industry machinery	2.3	2.5	1.8	2.1	.4	.3	2.2	2.2	1.0	1.2	.6	.4
3551	Food products machinery	2.3	2.4	1.7	2.0	.4	.2	2.2	2.2	1.0	1.2	.6	.3
3552	Textile machinery	2.9	3.4	1.8	2.4	.9	.6	3.3	3.1	1.3	1.6	1.4	.6
356	General industrial machinery	2.4	2.5	1.8	2.0	.4	.3	2.2	2.2	1.0	1.2	.5	.3
3561	Pumps and pumping equipment	2.5	2.1	2.1	1.9	.2	.1	2.0	1.9	1.1	1.2	.2	.2
3562	Ball and roller bearings	2.1	2.2	1.2	1.6	.4	.2	1.9	1.8	.6	.7	.5	.4
3564	Blowers and fans	2.9	3.1	2.5	2.6	.3	.4	2.5	2.6	1.3	1.5	.6	.4
357	Office and computing machines	2.9	2.7	2.4	2.3	.1	.1	2.1	2.0	1.2	1.2	.2	.1
3573	Electronic computing equipment	2.9	2.7	2.5	2.3	.1	.1	1.9	1.9	1.1	1.1	.1	.1
358	Refrigeration and service machinery	3.6	3.4	2.5	2.7	.7	.4	3.1	3.1	1.3	1.5	.8	.6
3585	Refrigeration and heating equipment	3.8	3.4	2.5	2.6	.8	.5	3.2	3.2	1.3	1.5	.9	.6
359	Misc. machinery, except electrical	3.7	4.1	3.0	3.6	.5	.4	3.2	3.7	1.7	2.3	.6	.5
36	ELECTRIC AND ELECTRONIC EQUIPMENT	3.2	3.5	2.2	2.6	.6	.4	2.9	3.2	1.3	1.6	.7	.6
361	Electric distributing equipment	3.2	3.0	2.2	2.1	.4	.3	2.9	3.0	1.4	1.4	.5	.3
3612	Transformers	3.3	3.1	2.1	2.2	.4	.3	3.1	3.0	1.3	1.4	.5	.3
3613	Switchgear and switchboard apparatus	3.0	2.9	2.2	2.0	.4	.4	2.9	2.9	1.4	1.4	.5	.3
362	Electrical industrial apparatus	2.7	2.6	1.7	1.9	.5	.3	2.4	2.5	1.1	1.2	.5	.4
3621	Motors and generators	2.7	2.5	1.7	1.8	.5	.3	2.4	2.5	1.1	1.2	.5	.4
3622	Industrial controls	2.6	2.9	1.8	1.9	.3	.4	2.4	2.5	1.1	1.1	.4	.4
363	Household appliances	4.7	4.5	2.8	2.8	1.1	.9	4.3	4.7	1.8	1.9	1.3	1.5
3632	Household refrigerators and freezers	5.6	5.0	1.9	2.4	1.8	1.4	5.1	5.6	1.5	1.4	1.9	2.3
3633	Household laundry equipment	2.4	2.3	1.6	1.3	.5	.5	2.3	2.6	.6	.6	.9	1.2
3634	Electric housewares and fans	5.4	5.9	4.1	4.4	1.0	1.0	5.4	5.7	2.7	3.3	1.8	1.4
364	Electric lighting and wiring equipment	3.5	3.8	2.6	2.9	.6	.5	3.2	3.4	1.5	1.8	.9	.7
3641	Electric lamps	2.2	2.2	1.1	1.3	.6	.3	2.3	2.1	.6	.7	.7	.4
3643	Current-carrying wiring devices	3.4	3.5	2.7	2.7	.5	.5	3.0	3.1	1.5	1.6	.6	.7
365	Radio and TV receiving equipment	4.5	5.3	2.0	3.0	1.2	1.0	4.9	5.8	1.4	2.0	1.9	1.8
3651	Radio and TV receiving sets	4.3	5.1	1.7	2.9	1.2	.8	4.7	6.0	1.2	1.9	1.8	1.8
366	Communication equipment	2.1	2.3	1.4	1.7	.3	.2	1.7	1.8	.8	.9	.3	.2
3661	Telephone and telegraph apparatus	1.8	1.4	1.3	1.1	.4	.2	1.2	1.5	.5	.6	.2	.2
3662	Radio and TV communication equipment	2.2	2.6	1.5	2.0	.3	.2	1.9	2.0	.9	1.1	.4	.2
367	Electronic components and accessories	3.8	4.3	3.0	3.6	.5	.4	3.4	3.7	1.9	2.2	.6	.4
3671.3	Electronic tubes	2.8	2.9	1.6	1.8	.6	.4	2.5	2.6	.8	1.0	.7	.4
3674	Semiconductors and related devices	2.6	3.2	1.9	2.7	.5	.3	2.2	2.5	1.1	1.3	.3	.3
3679	Electronic components, nec	4.6	5.3	3.8	4.5	.5	.4	4.4	4.5	2.5	3.0	.8	.5
369	Misc. electrical equipment and supplies	3.1	3.4	2.1	2.5	.4	.5	2.8	3.0	1.2	1.5	.6	.6
3694	Engine electrical equipment	2.9	3.0	1.9	2.2	.5	.4	2.6	2.7	1.1	1.4	.5	.5
37	TRANSPORTATION EQUIPMENT	3.5	3.6	2.1	2.2	1.0	.9	3.1	3.0	1.1	1.2	1.1	1.0
371	Motor vehicles and equipment	3.3	3.2	1.9	1.8	.8	.9	2.8	2.7	.9	1.0	1.0	.9
3711	Motor vehicles and car bodies	3.3	3.3	1.7	1.5	.9	1.2	2.9	2.8	.8	.8	1.3	1.2
3713	Truck and bus bodies	4.2	3.7	3.5	3.0	.6	.5	3.1	3.4	1.7	1.8	.7	.7
3714	Motor vehicle parts and accessories	3.0	2.8	1.7	1.7	.8	.6	2.5	2.4	.8	.8	.8	.7
3715	Truck trailers	6.3	5.9	5.4	5.3	.8	.4	4.8	5.1	2.4	2.9	1.0	.7
372	Aircraft and parts	2.1	2.6	1.4	2.0	.4	.3	1.8	1.5	.7	.8	.6	.2
3721	Aircraft	1.9	2.5	1.2	1.8	.4	.4	1.8	1.3	.6	.7	.7	.2
3724	Aircraft engines and engine parts	1.7	2.0	1.0	1.6	.3	.1	1.3	1.1	.5	.5	.2	.1
3728	Aircraft equipment, nec	3.0	3.5	2.3	3.0	.6	.3	2.4	2.5	1.1	1.5	.6	.2
373	Ship and boat building and repairing	6.8	6.7	3.9	3.7	2.6	2.8	6.5	6.8	2.4	2.5	2.8	3.0
3731	Ship building and repairing	7.2	6.8	3.8	3.2	3.1	3.4	6.7	7.1	2.2	2.2	3.1	3.7
3732	Boat building and repairing	5.4	6.5	4.3	5.7	.9	.6	5.7	5.7	3.0	3.8	1.5	.8
374	Railroad equipment	3.7	3.9	1.5	1.9	1.7	1.4	3.3	3.0	.6	.7	1.6	1.0
376	Guided missiles, space vehicles, parts	1.6	1.8	.9	1.0	.4	.4	1.5	1.5	.5	.5	.6	.6
3761	Guided missiles and space vehicles	1.5	1.8	.8	1.0	.3	.4	1.4	1.5	.5	.5	.5	.6
379	Miscellaneous transportation equipment	7.9	7.6	5.0	6.5	2.7	1.0	7.0	7.4	3.9	4.5	1.9	1.8
38	INSTRUMENTS AND RELATED PRODUCTS	2.7	2.8	2.1	2.4	.3	.2	2.4	2.5	1.3	1.5	.4	.3
381	Engineering and scientific instruments	2.1	2.6	1.9	2.3	.2	.1	1.8	2.0	1.1	1.3	.2	.2
382	Measuring and controlling devices	3.1	3.0	2.4	2.5	.3	.2	2.4	2.4	1.3	1.4	.3	.2
3822	Environmental controls	3.7	3.0	2.6	2.2	.5	.4	3.0	2.6	1.3	1.3	.5	.4
3823	Process control instruments	2.3	2.8	1.9	2.4	.1	.1	2.1	2.4	1.2	1.4	.3	.2
3825	Instruments to measure electricity	3.2	3.3	2.6	2.7	.2	.1	2.2	2.3	1.4	1.6	.2	.1

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P
	INSTRUMENTS AND RELATED PRODUCTS—Cont'd												
383	Optical instruments and lenses	2.9	—	2.3	—	0.1	—	2.0	—	1.5	—	0.1	—
384	Medical instruments and supplies	2.5	—	2.2	—	.2	—	2.6	—	1.4	—	.3	—
3841	Surgical and medical instruments	3.3	—	3.0	—	.2	—	3.3	—	2.1	—	.2	—
3842	Surgical appliances and supplies	2.0	—	1.7	—	.3	—	1.9	—	1.0	—	.3	—
385	Ophthalmic goods	1.9	—	1.3	—	.5	—	3.8	—	1.4	—	1.7	—
386	Photographic equipment and supplies	1.0	—	.7	—	(¹)	—	1.2	—	.4	—	.2	—
387	Watches, clocks, and watchcases	1.9	—	1.3	—	.4	—	3.5	—	1.2	—	.9	—
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	2.7	5.5	1.9	3.5	.7	1.9	7.8	5.9	1.8	2.4	4.9	2.3
391	Jewelry, silverware, and plated ware	1.7	—	1.4	—	.2	—	5.6	—	1.7	—	3.2	—
393	Musical instruments	2.8	—	2.3	—	.3	—	5.0	—	2.0	—	2.0	—
394	Toys and sporting goods	3.8	—	1.8	—	1.8	—	17.0	—	2.0	—	13.3	—
3942,4	Dolls, games, toys, and children's vehicles	5.4	—	1.7	—	3.4	—	31.7	—	2.5	—	26.7	—
3949	Sporting and athletic goods, nec	2.5	—	1.8	—	.4	—	4.8	—	1.6	—	2.1	—
395	Pens, pencils, office and art supplies	2.2	—	2.0	—	.1	—	3.2	—	1.3	—	.8	—
396	Costume jewelry and notions	2.5	—	1.9	—	.5	—	8.1	—	2.4	—	4.6	—
399	Miscellaneous manufactures	2.6	—	2.0	—	.5	—	3.4	—	1.5	—	1.1	—
	NONDURABLE GOODS												
20	FOOD AND KINDRED PRODUCTS	3.8	5.2	2.6	3.3	1.0	1.6	6.2	5.8	2.2	2.5	3.2	2.4
201	Meat products	4.5	—	3.2	—	.9	—	7.3	—	3.3	—	3.3	—
2011	Meat packing plants	3.5	—	1.8	—	1.4	—	4.7	—	1.3	—	2.6	—
2013	Sausages and other prepared meats	2.3	—	1.4	—	.8	—	3.8	—	1.2	—	1.9	—
2016	Poultry dressing plants	7.3	—	6.4	—	.3	—	13.9	—	7.5	—	5.6	—
202	Dairy products	2.6	—	1.9	—	.5	—	3.4	—	1.7	—	1.1	—
203	Preserved fruits and vegetables	6.5	—	3.7	—	2.7	—	15.7	—	2.9	—	11.6	—
204	Grain mill products	3.1	—	2.2	—	.8	—	3.0	—	1.3	—	1.1	—
205	Bakery products	2.0	—	1.5	—	.4	—	2.8	—	1.4	—	.9	—
2051	Bread, cake, and related products	2.0	—	1.6	—	.3	—	2.7	—	1.5	—	.7	—
2052	Cookies and crackers	2.2	—	.9	—	1.2	—	3.2	—	1.0	—	1.6	—
206	Sugar and confectionery products	5.1	—	3.0	—	1.7	—	7.5	—	2.6	—	3.9	—
207	Fats and oils	2.8	—	2.5	—	.2	—	3.5	—	1.5	—	1.4	—
208	Beverages	3.2	—	2.2	—	.8	—	4.5	—	1.7	—	2.0	—
2082	Malt beverages	2.5	—	1.0	—	1.4	—	3.8	—	.4	—	2.7	—
2086	Bottled and canned soft drinks	3.6	—	3.0	—	.4	—	3.8	—	2.4	—	.5	—
209	Misc. foods and kindred products	4.0	—	3.3	—	.6	—	5.2	—	2.3	—	2.3	—
21	TOBACCO MANUFACTURES	2.3	—	.7	—	1.0	—	4.9	—	.5	—	3.8	—
211	Cigarettes	1.2	—	.3	—	.1	—	.9	—	.2	—	(¹)	—
22	TEXTILE MILL PRODUCTS	2.4	4.5	1.9	3.5	.3	.6	3.4	4.6	1.8	2.8	.8	.9
221	Weaving mills, cotton	2.6	—	2.0	—	.1	—	2.8	—	1.7	—	.2	—
222	Weaving mills, synthetics	2.6	—	2.3	—	.1	—	2.9	—	2.0	—	.2	—
223	Weaving and finishing mills, wool	4.1	—	3.2	—	.7	—	4.0	—	2.5	—	.7	—
224	Narrow fabric mills	3.1	—	2.5	—	.4	—	3.6	—	1.9	—	1.1	—
225	Knitting mills	2.6	—	1.8	—	.7	—	4.2	—	1.9	—	1.6	—
2251	Women's hosiery, except socks	3.0	—	2.7	—	.3	—	3.6	—	2.5	—	.2	—
2252	Hosiery, nec	2.1	—	1.4	—	.7	—	3.5	—	2.0	—	.9	—
2253	Knit outerwear mills	2.0	—	1.6	—	.3	—	5.6	—	1.8	—	3.3	—
2254	Knit underwear mills	2.0	—	1.7	—	.2	—	2.6	—	1.9	—	.3	—
2257	Circular knit fabric mills	4.2	—	2.4	—	1.6	—	4.0	—	1.8	—	1.0	—
226	Textile finishing, except wool	1.7	—	1.3	—	.2	—	2.6	—	1.0	—	.7	—
227	Floor covering mills	1.9	—	1.5	—	.2	—	2.7	—	1.6	—	.4	—
228	Yarn and thread mills	2.4	—	2.0	—	.3	—	4.0	—	2.2	—	.8	—
229	Miscellaneous textile goods	2.0	—	1.6	—	.2	—	3.3	—	1.4	—	1.1	—
23	APPAREL AND OTHER TEXTILE PRODUCTS	3.0	6.4	1.8	3.7	1.0	2.4	5.4	5.9	1.9	2.9	2.8	2.2
231	Men's and boys' suits and coats	1.9	—	1.2	—	.5	—	4.4	—	1.2	—	2.5	—
232	Men's and boys' furnishings	2.4	—	1.7	—	.6	—	4.2	—	2.0	—	1.6	—
2321	Men's and boys' shirts and nightwear	1.8	—	1.3	—	.3	—	4.2	—	1.9	—	1.8	—
2327	Men's and boys' separate trousers	1.4	—	1.2	—	.1	—	2.6	—	1.8	—	.5	—
2328	Men's and boys' work clothing	3.1	—	2.5	—	.3	—	3.9	—	2.9	—	.4	—
233	Women's and misses' outerwear	3.8	—	1.8	—	1.9	—	6.8	—	1.8	—	4.3	—
234	Women's and children's undergarments	2.3	—	1.6	—	.7	—	5.5	—	1.9	—	3.1	—
2341	Women's and children's underwear	2.3	—	1.4	—	.8	—	5.6	—	2.1	—	3.1	—
2342	Brassieres and allied garments	2.6	—	2.4	—	.2	—	5.0	—	1.3	—	3.2	—
236	Children's outerwear	2.7	—	1.5	—	1.0	—	4.5	—	2.1	—	1.8	—
238	Misc. apparel and accessories	2.5	—	1.6	—	.7	—	7.0	—	2.3	—	4.3	—
239	Misc. fabricated textile products	3.1	—	2.4	—	.5	—	4.6	—	2.0	—	1.6	—
26	PAPER AND ALLIED PRODUCTS	1.8	2.7	1.2	1.8	.4	.8	2.5	2.6	.9	1.2	1.0	.8
261,2,6	Paper and pulp mills	1.1	—	.6	—	.4	—	1.3	—	.4	—	.5	—
262	Paper mills, except building paper	1.2	—	.6	—	.4	—	1.3	—	.4	—	.6	—

See footnotes at end of table.

ESTABLISHMENT DATA

LABOR TURNOVER

D-2. Labor turnover rates by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
INSTRUMENTS AND RELATED PRODUCTS—Cont'd													
383	Optical instruments and lenses	2.8	2.9	2.5	2.6	0.1	0.1	2.1	2.2	1.4	1.6	0.3	0.1
384	Medical instruments and supplies	3.1	3.3	2.5	2.9	.4	.3	2.8	2.8	1.6	1.8	.5	.3
3841	Surgical and medical instruments	3.6	3.9	2.9	3.4	.5	.2	3.1	3.1	2.0	2.0	.4	.3
3842	Surgical appliances and supplies	2.9	3.0	2.3	2.5	.4	.3	2.7	2.6	1.4	1.6	.6	.3
385	Ophthalmic goods	3.5	3.4	2.7	2.9	.4	.4	3.4	3.9	1.8	2.2	.8	.9
386	Photographic equipment and supplies	1.3	1.5	1.0	1.3	.1	.1	1.7	1.6	.7	.8	.3	.2
387	Watches, clocks, and watchcases	4.0	4.6	2.9	3.5	.8	.7	4.8	4.6	2.2	2.3	1.4	.9
MISCELLANEOUS MANUFACTURING INDUSTRIES													
39	Jewelry, silverware, and plated ware	5.3	5.8	3.9	4.5	1.2	1.0	5.4	5.8	2.5	2.9	1.9	1.7
391	Musical instruments	4.3	5.0	3.3	4.1	.9	.8	4.2	5.2	2.3	2.9	1.1	1.5
393	Dolls, games, toys, and children's vehicles	3.4	4.4	2.5	3.7	.6	.5	3.4	4.3	2.0	2.7	.6	.6
394	Sporting and athletic goods, nec	7.0	7.8	4.6	5.6	1.9	1.8	7.6	8.2	2.9	3.5	3.1	2.9
3942,4	Pens, pencils, office and art supplies	9.0	10.9	5.6	7.7	2.9	2.8	10.0	11.2	3.5	4.6	4.5	4.3
3949	Costume jewelry and notions	5.1	5.1	3.6	3.7	1.0	1.0	5.3	5.5	2.4	2.6	1.8	1.7
395	Miscellaneous manufactures	3.7	3.7	3.2	3.3	.4	.3	3.4	3.6	1.8	2.1	.6	.5
396		6.2	6.5	4.8	5.3	1.3	1.1	6.5	6.5	3.5	3.7	2.1	1.7
399		4.7	4.8	3.5	3.9	1.0	.8	4.4	4.6	2.1	2.4	1.5	1.2
NONDURABLE GOODS													
FOOD AND KINDRED PRODUCTS													
20	Meat products	6.5	6.4	4.5	4.6	1.7	1.7	6.4	6.3	3.0	3.3	2.6	2.2
201	Meat packing plants	6.5	7.0	4.9	5.2	1.2	1.4	6.6	7.0	3.9	4.4	1.7	1.7
2011	Sausages and other prepared meats	4.2	4.4	2.4	2.5	1.4	1.4	4.4	4.7	1.6	1.9	2.0	2.0
2013	Poultry dressing plants	4.3	4.6	2.6	3.0	1.5	1.4	4.5	4.8	1.7	2.2	2.0	1.8
2016	Dairy products	11.9	12.7	10.4	10.7	.9	1.3	11.7	12.3	9.3	9.9	1.2	1.2
202	Preserved fruits and vegetables	3.3	3.7	2.7	3.0	.5	.5	3.3	3.7	1.9	2.3	.8	.7
203	Grain mill products	15.0	14.3	10.0	9.0	4.8	5.1	14.3	13.5	5.4	5.5	7.6	6.9
204	Bakery products	3.5	4.0	2.6	3.1	.8	.8	3.7	4.0	1.9	2.2	1.1	1.1
205	Bread, cake, and related products	3.1	3.1	2.5	2.7	.5	.4	3.1	3.1	1.8	2.0	.8	.6
2051	Cookies and crackers	3.0	3.1	2.6	2.8	.2	.2	2.8	3.0	1.9	2.1	.5	.4
2052	Sugar and confectionery products	3.8	3.4	1.9	2.1	1.8	1.2	4.2	3.6	1.3	1.5	2.2	1.5
206	Fats and oils	6.3	6.9	3.0	3.5	3.0	3.1	7.0	6.7	2.0	2.4	4.2	3.5
207	Beverages	3.5	3.6	2.7	2.8	.6	.6	3.8	3.6	1.7	1.9	1.3	.9
208	Malt beverages	4.9	4.8	3.4	3.6	1.2	1.0	4.7	4.7	2.2	2.4	1.6	1.4
2082	Bottled and canned soft drinks	4.2	3.7	1.6	1.5	2.2	1.9	4.1	4.0	.5	.6	2.8	2.7
2086	Misc. foods and kindred products	5.1	5.3	4.6	4.8	.4	.3	4.7	4.9	3.2	3.5	.5	.5
209		7.3	7.2	4.7	5.1	2.1	1.9	7.3	7.4	3.2	3.6	3.4	2.9
TOBACCO MANUFACTURES													
21	Cigarettes	3.0	3.4	1.4	1.6	1.1	1.2	3.2	3.5	.8	1.0	1.7	1.6
211		1.0	1.5	.4	.6	.2	.2	1.3	1.2	.4	.4	.2	.1
TEXTILE MILL PRODUCTS													
22	Weaving mills, cotton	4.5	4.6	3.6	3.8	.6	.6	4.6	4.7	2.8	3.1	.8	.7
221	Weaving mills, synthetics	3.5	3.7	2.7	2.8	.2	.2	3.8	3.9	2.5	2.7	.3	.3
222	Weaving and finishing mills, wool	3.8	4.3	3.1	3.5	.4	.4	4.4	4.3	2.7	3.0	.7	.4
223	Narrow fabric mills	4.7	5.1	3.6	4.2	.8	.5	4.6	4.8	2.7	3.3	.9	.6
224	Knitting mills	4.4	4.8	3.2	4.0	.9	.6	4.2	4.5	2.4	3.0	1.0	.7
225	Women's hosiery, except socks	5.4	5.3	4.2	4.3	.9	.8	5.3	5.5	3.1	3.5	1.2	1.1
2251	Hosiery, nec	4.2	5.7	3.5	4.9	.5	.5	5.2	5.1	3.1	3.8	1.4	.4
2252	Knit underwear mills	5.1	5.1	4.6	4.6	.4	.4	4.6	5.1	3.7	3.9	.4	.4
2253	Circular knit fabric mills	6.1	5.6	4.6	4.3	1.2	1.0	6.0	6.0	3.3	3.5	1.9	1.6
2254	Textile finishing, except wool	4.7	5.1	4.1	4.4	.5	.5	4.3	4.8	3.1	3.7	.4	.4
2257	Floor covering mills	5.5	5.1	3.8	3.9	1.4	1.0	5.2	5.7	2.7	3.0	1.0	1.3
226	Yarn and thread mills	3.8	3.6	2.8	2.7	.7	.6	3.7	3.7	1.9	2.1	1.0	.7
227	Miscellaneous textile goods	4.2	4.3	3.5	3.6	.5	.5	4.2	4.0	2.5	2.6	.6	.5
228		5.8	5.9	4.8	4.9	.5	.6	5.7	6.0	4.0	4.3	.6	.5
229		4.3	3.9	2.9	3.0	1.0	.6	4.3	4.2	2.0	2.2	1.2	.9
APPAREL AND OTHER TEXTILE PRODUCTS													
23	Men's and boys' suits and coats	5.7	5.6	3.8	3.9	1.6	1.4	6.0	5.8	3.2	3.3	1.9	1.6
231	Men's and boys' shirts and nightwear	4.3	3.5	2.4	1.9	1.5	1.3	4.4	4.1	1.8	1.6	1.9	1.8
232	Men's and boys' separate trousers	5.6	5.3	4.2	4.1	1.1	.9	6.1	5.6	4.2	3.9	1.2	1.0
2321	Men's and boys' work clothing	5.0	5.1	3.5	3.9	1.2	.9	5.6	5.1	3.4	3.6	1.4	.8
2327	Women's and misses' outerwear	4.6	4.7	3.6	3.6	.7	.9	4.9	5.1	3.6	3.7	.7	.9
2328	Women's and children's undergarments	6.3	5.6	5.4	4.7	.7	.7	7.3	6.2	5.8	4.8	.7	.6
233	Women's and children's undergarments	6.1	5.9	3.5	3.7	2.4	2.0	6.4	6.0	2.6	2.9	2.9	2.3
234	Brassieres and allied garments	5.6	5.5	4.1	4.3	1.2	.9	5.5	5.8	3.5	3.8	1.2	1.2
2341	Children's outerwear	6.0	5.8	4.5	4.6	1.3	1.0	5.9	6.1	3.9	4.1	1.1	1.1
2342	Misc. apparel and accessories	4.2	4.2	2.8	3.2	1.0	.7	4.1	5.0	2.0	2.4	1.3	1.4
236	Misc. fabricated textile products	5.6	5.6	3.7	4.1	1.7	1.3	5.5	5.9	2.8	3.5	1.9	1.5
238		6.0	6.0	3.8	4.0	2.0	1.8	5.8	5.9	3.0	3.3	2.1	1.9
239		6.0	6.3	4.6	5.0	1.1	1.0	5.8	6.2	3.1	3.5	1.6	1.3
PAPER AND ALLIED PRODUCTS													
26	Paper and pulp mills	2.8	2.9	2.0	2.2	.6	.5	2.7	2.8	1.2	1.4	.8	.6
261,2,6	Paper mills, except building paper	1.8	1.6	1.2	1.2	.4	.3	1.6	1.6	.7	.7	.4	.4
262		1.7	1.6	1.1	1.1	.3	.3	1.5	1.5	.7	.7	.4	.4

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P	Dec. 1978	Jan. 1979 ^P
PAPER AND ALLIED PRODUCTS—Continued													
263	Paperboard mills	1.2	-	0.7	-	0.3	-	1.5	-	0.6	-	0.4	-
264	Misc. converted paper products	2.1	-	1.4	-	.6	-	3.3	-	1.2	-	1.4	-
265	Paperboard containers and boxes	2.1	-	1.6	-	.4	-	3.1	-	1.2	-	1.2	-
2651	Folding paperboard boxes	2.1	-	1.5	-	.5	-	2.8	-	.9	-	1.1	-
2653	Corrugated and solid fiber boxes	1.9	-	1.6	-	.2	-	2.2	-	1.0	-	.5	-
27	PRINTING AND PUBLISHING	2.6	3.6	2.1	2.8	.4	0.6	3.0	3.3	1.6	1.9	.8	0.7
271	Newspapers	2.8	-	2.6	-	.1	-	2.8	-	2.2	-	.1	-
272	Periodicals	2.8	-	2.4	-	.2	-	2.1	-	1.3	-	.2	-
273	Books	3.3	-	2.1	-	1.0	-	2.3	-	1.4	-	.4	-
274	Miscellaneous publishing	2.7	-	1.9	-	.8	-	3.0	-	1.8	-	.8	-
275	Commercial printing	2.2	-	1.6	-	.5	-	3.4	-	1.2	-	1.7	-
2751	Commercial printing, letterpress	2.1	-	1.5	-	.6	-	4.4	-	1.4	-	2.5	-
2752	Commercial printing, lithographic	2.4	-	1.7	-	.6	-	2.7	-	1.1	-	1.1	-
278	Blankbooks and bookbinding	3.3	-	2.8	-	.4	-	3.3	-	2.0	-	.6	-
28	CHEMICALS AND ALLIED PRODUCTS	1.1	1.8	.9	1.4	.1	.3	1.5	1.7	.5	.7	.4	.4
281	Industrial inorganic chemicals	1.0	-	.7	-	.1	-	1.3	-	.4	-	.3	-
2819	Industrial inorganic chemicals, nec	.9	-	.7	-	.1	-	1.0	-	.4	-	.1	-
282	Plastics materials and synthetics	1.0	-	.7	-	.2	-	.9	-	.3	-	.1	-
2821	Plastics materials and resins	1.3	-	.9	-	.3	-	1.1	-	.5	-	.2	-
2824	Organic fibers, noncellulosic	.6	-	.5	-	(¹)	-	.7	-	.2	-	(¹)	-
283	Drugs	1.0	-	.8	-	.1	-	1.2	-	.6	-	.2	-
2834	Pharmaceutical preparations	1.1	-	.9	-	.1	-	1.3	-	.6	-	.3	-
284	Soap, cleaners, and toilet goods	1.6	-	1.2	-	.2	-	2.9	-	.7	-	1.7	-
2841	Soap and other detergents	1.1	-	.9	-	.1	-	1.4	-	.4	-	.4	-
2844	Toilet preparations	2.0	-	1.4	-	.4	-	4.0	-	.8	-	2.7	-
285	Paints and allied products	1.2	-	1.0	-	.1	-	2.0	-	.7	-	.5	-
286	Industrial organic chemicals	.7	-	.5	-	.1	-	1.2	-	.4	-	.1	-
287	Agricultural chemicals	1.7	-	1.3	-	.4	-	1.8	-	.8	-	.6	-
289	Miscellaneous chemical products	1.6	-	1.4	-	.2	-	1.3	-	.7	-	.1	-
29	PETROLEUM AND COAL PRODUCTS	1.3	1.9	.9	1.5	.1	.2	2.2	1.7	.6	.5	1.1	.7
291	Petroleum refining	.9	-	.6	-	(¹)	-	1.3	-	.3	-	.6	-
295	Paving and roofing materials	2.4	-	1.9	-	.3	-	6.4	-	1.5	-	4.1	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	2.7	4.7	2.1	3.6	.4	.9	3.7	4.2	1.8	2.3	1.0	.8
301	Tires and inner tubes	1.1	-	.5	-	.2	-	1.2	-	.3	-	.3	-
302	Rubber and plastics footwear	3.7	-	3.3	-	.1	-	5.1	-	3.8	-	.2	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting	3.3	-	1.7	-	.4	-	2.2	-	1.3	-	.3	-
306	Fabricated rubber products, nec	2.5	-	1.9	-	.4	-	3.3	-	1.3	-	.8	-
307	Miscellaneous plastics products	3.2	-	2.6	-	.4	-	4.5	-	2.3	-	1.4	-
31	LEATHER AND LEATHER PRODUCTS	4.0	7.5	2.8	4.5	1.0	2.5	7.9	7.0	3.0	3.8	3.9	2.1
311	Leather tanning and finishing	3.9	-	2.2	-	1.5	-	6.1	-	1.9	-	3.5	-
314	Footwear, except rubber	4.6	-	3.2	-	1.1	-	7.0	-	3.2	-	3.0	-
3143	Men's footwear, except athletic	4.7	-	3.0	-	1.5	-	6.2	-	3.5	-	1.9	-
3144	Women's footwear, except athletic	4.5	-	3.2	-	.8	-	6.2	-	2.9	-	2.3	-
NONMANUFACTURING:													
-	MINING	3.4	4.9	2.6	3.7	.4	.8	3.8	4.8	2.1	2.6	1.0	1.2
10	METAL MINING	2.4	2.4	1.9	2.0	.1	.1	2.2	2.7	1.0	1.2	.5	.6
101	Iron ores	1.6	-	.6	-	.1	-	2.1	-	.1	-	1.0	-
102	Copper ores	1.7	-	1.3	-	.1	-	.9	-	.3	-	.2	-
12	BITUMINOUS COAL AND LIGNITE MINING	1.0	1.9	.6	1.4	.2	.2	1.3	2.7	.4	.5	.5	1.5
13	OIL AND GAS EXTRACTION	5.4	7.4	4.3	6.0	.6	1.1	4.9	6.3	3.5	4.5	.4	.6
131, 2	Crude petroleum, natural gas, and natural gas liquids	2.0	-	1.2	-	.6	-	1.3	-	.7	-	.2	-
138	Oil and gas field services	7.9	-	6.6	-	.6	-	7.5	-	5.6	-	.6	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	1.9	3.9	1.3	2.0	.4	1.8	6.2	5.4	1.3	1.3	4.4	3.5
142	Crushed and broken stone	1.4	-	1.0	-	.3	-	8.9	-	1.2	-	7.2	-
144	Sand and gravel	2.7	-	1.4	-	.8	-	7.9	-	1.6	-	5.8	-
-	COMMUNICATION:												
481	Telephone communication	1.0	-	.8	-	(¹)	-	.8	-	.3	-	.2	-

¹ Less than 0.05.

^P=preliminary.
* = not available.

ESTABLISHMENT DATA
LABOR TURNOVER

D-2. Labor turnover rates by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
	PAPER AND ALLIED PRODUCTS—Continued												
263	Paperboard mills	2.0	2.0	1.4	1.5	0.5	0.3	2.1	1.9	0.9	0.9	0.6	0.3
264	Misc. converted paper products	3.3	3.5	2.5	2.8	.6	.6	3.2	3.4	1.5	1.8	.9	.7
265	Paperboard containers and boxes	3.4	3.7	2.4	2.8	.8	.6	3.5	3.6	1.6	1.8	1.1	.8
2651	Folding paperboard boxes	3.0	3.4	2.1	2.7	.8	.6	3.3	3.3	1.3	1.6	1.2	.8
2653	Corrugated and solid fiber boxes	2.9	3.2	2.2	2.7	.5	.3	2.9	3.0	1.4	1.7	.7	.4
27	PRINTING AND PUBLISHING	3.2	3.5	2.6	3.0	.5	.4	3.0	3.2	1.8	2.1	.7	.6
271	Newspapers	3.0	3.5	2.8	3.2	.1	.2	2.9	3.2	2.2	2.5	.2	.2
272	Periodicals	2.5	2.9	2.3	2.6	.2	.2	2.2	2.5	1.3	1.7	.3	.3
273	Books	3.3	3.6	2.4	2.7	.8	.6	3.3	3.2	1.6	1.8	1.0	.8
274	Miscellaneous publishing	2.9	3.5	2.1	2.8	.6	.6	2.7	3.2	1.4	1.8	.7	.8
275	Commercial printing	3.1	3.4	2.3	2.7	.7	.6	2.9	3.2	1.3	1.6	1.0	.9
2751	Commercial printing, letterpress	3.1	3.5	2.2	2.8	.8	.7	2.9	3.4	1.4	1.8	1.0	1.0
2752	Commercial printing, lithographic	3.2	3.3	2.3	2.7	.7	.5	3.0	3.0	1.2	1.5	1.1	.9
278	Blankbooks and bookbinding	4.3	4.8	3.4	4.1	.8	.5	4.1	4.3	2.2	2.6	1.1	.8
28	CHEMICALS AND ALLIED PRODUCTS	1.8	1.8	1.3	1.4	.3	.3	1.7	1.7	.7	.8	.4	.4
281	Industrial inorganic chemicals	1.6	1.5	1.2	1.2	.2	.1	1.4	1.4	.6	.6	.3	.3
2819	Industrial inorganic chemicals, nec	1.6	1.4	1.2	1.1	.2	.1	1.3	1.2	.5	.6	.2	.2
282	Plastics materials and synthetics	1.4	1.3	.9	.9	.3	.2	1.3	1.3	.5	.6	.3	.2
2821	Plastics materials and resins	1.5	1.5	1.2	1.2	.2	.1	1.5	1.5	.7	.7	.2	.3
2824	Organic fibers, noncellulosic	1.0	.9	.5	.6	.2	.1	1.0	.9	.4	.5	.2	.1
283	Drugs	1.7	1.6	1.4	1.3	.2	.2	1.6	1.5	.8	.8	.3	.3
2834	Pharmaceutical preparations	1.8	1.7	1.5	1.4	.2	.2	1.6	1.6	.8	.8	.4	.3
284	Soap, cleaners, and toilet goods	2.7	2.8	1.8	2.0	.7	.6	2.5	2.6	.9	1.1	.8	.9
2841	Soap and other detergents	1.8	2.0	1.1	1.4	.6	.6	1.7	1.9	.6	.6	.5	.7
2844	Toilet preparations	3.4	3.3	2.1	2.2	1.0	.8	3.2	3.2	1.1	1.2	1.1	1.1
285	Paints and allied products	2.3	2.4	1.8	2.0	.3	.2	2.3	2.4	1.1	1.3	.4	.4
286	Industrial organic chemicals	1.2	1.2	.9	.9	.1	.1	1.1	1.2	.5	.5	.1	.1
287	Agricultural chemicals	2.9	3.1	2.1	2.4	.5	.6	3.0	2.9	1.3	1.4	1.0	1.0
289	Miscellaneous chemical products	2.5	2.2	1.8	1.7	.5	.3	2.4	2.1	1.0	1.1	.6	.4
29	PETROLEUM AND COAL PRODUCTS	2.2	2.2	1.7	1.7	.3	.2	2.2	2.1	.8	.9	.6	.6
291	Petroleum refining	1.5	1.5	1.3	1.3	(1)	(1)	1.6	1.4	.5	.5	.4	.3
295	Paving and roofing materials	5.1	5.1	3.5	3.7	1.2	1.1	4.9	5.2	1.8	2.3	2.1	1.7
30	RUBBER AND MISC. PLASTICS PRODUCTS	4.6	5.0	3.6	4.0	.7	.7	4.4	4.8	2.4	2.8	1.0	.9
301	Tires and inner tubes	1.7	2.0	1.0	1.0	.2	.5	1.8	2.0	.6	.6	.5	.6
302	Rubber and plastics footwear	6.0	7.3	4.4	6.4	.9	.7	7.3	7.6	4.0	5.6	2.2	.8
303,4	Reclaimed rubber, and rubber and plastics hose and belting	3.4	3.6	2.5	2.7	.5	.5	3.6	3.5	1.8	1.9	.7	.8
306	Fabricated rubber products, nec	3.9	4.0	2.8	3.0	.7	.6	3.8	3.8	1.9	2.0	.9	.7
307	Miscellaneous plastics products	5.7	5.9	4.5	4.9	.8	.7	5.3	5.8	3.0	3.5	1.2	1.0
31	LEATHER AND LEATHER PRODUCTS	6.9	7.3	4.9	5.3	1.5	1.5	7.1	7.6	4.0	4.5	2.0	1.9
311	Leather tanning and finishing	5.0	4.8	3.6	3.4	1.2	1.2	5.0	5.6	2.3	2.5	1.7	2.1
314	Footwear, except rubber	7.2	7.7	5.2	5.7	1.4	1.5	7.3	8.1	4.5	5.1	1.7	1.7
3143	Men's footwear, except athletic	6.3	6.9	5.1	5.7	.6	.8	6.4	7.3	4.6	5.4	.8	.8
3144	Women's footwear, except athletic	7.6	7.9	5.2	5.5	1.7	1.9	7.8	8.5	4.6	4.9	2.1	2.2
	NONMANUFACTURING:												
	MINING	4.0	4.7	3.0	3.7	.5	.5	3.6	4.1	2.2	2.7	.6	.5
10	METAL MINING	2.9	3.0	2.1	2.4	.5	.3	3.6	2.8	1.5	1.5	1.2	.6
101	Iron ores	2.6	2.6	1.4	1.7	.7	.5	3.8	2.3	.6	.7	2.1	.8
102	Copper ores	2.0	1.6	1.1	1.0	.7	.2	3.3	1.8	1.0	.6	1.4	.5
12	BITUMINOUS COAL AND LIGNITE MINING	2.1	1.9	1.3	1.3	.3	.3	1.6	1.7	.8	.7	.2	.4
13	OIL AND GAS EXTRACTION	5.4	6.6	4.4	5.3	.5	.6	4.7	5.7	3.4	4.2	.3	.3
131,2	Crude petroleum, natural gas, and natural gas liquids	2.0	2.3	1.5	1.6	.2	.4	1.7	1.9	1.0	1.1	.1	.2
138	Oil and gas field services	8.1	9.9	6.8	8.1	.7	.7	7.1	8.5	5.3	6.5	.5	.5
14	NONMETALLIC MINERALS, EXCEPT FUELS	3.9	4.0	2.5	2.9	1.2	1.0	3.8	3.7	1.6	1.8	1.6	1.2
142	Crushed and broken stone	4.5	4.3	2.4	2.8	1.7	1.4	4.5	4.0	1.5	1.7	2.4	1.7
144	Sand and gravel	5.0	5.2	3.0	3.5	1.8	1.5	4.7	4.7	1.9	2.1	2.1	1.8
-	COMMUNICATION:												
481	Telephone communication .....	.9	1.3	.8	1.0	-	-	.8	1.0	.3	.4	.1	.1

¹ Less than 0.05.

p=preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED LABOR TURNOVER

D-3. Labor turnover rates in manufacturing, 1969 to date, seasonally adjusted

[Per 100 employees]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions												
1969	4.9	4.8	4.9	4.9	4.7	5.0	4.7	4.5	4.7	4.6	4.5	4.6
1970	4.4	4.4	4.0	4.0	4.1	4.1	4.1	3.9	3.9	3.8	3.7	3.8
1971	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972	4.3	4.3	4.4	4.4	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	4.7	4.5	4.3	4.2	4.1	4.0	3.8	3.3	3.1
1975	3.0	3.1	3.2	3.8	3.6	3.8	4.0	4.0	3.8	3.9	3.9	3.9
1976	4.2	4.2	4.2	4.1	3.9	3.8	3.8	3.7	3.7	3.8	3.8	4.0
1977	4.0	4.4	4.1	3.9	3.9	3.9	3.9	3.7	3.9	4.0	4.1	4.4
1978	4.2	4.0	3.9	4.2	4.0	3.9	3.8	3.8	4.1	4.4	4.5	4.4
1979	4.4											
New hires												
1969	3.7	3.8	3.9	3.8	3.7	3.9	3.7	3.5	3.7	3.6	3.5	3.5
1970	3.3	3.2	2.9	2.8	2.7	2.8	2.8	2.7	2.6	2.5	2.4	2.4
1971	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.7	2.9
1972	3.0	3.1	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	3.2	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	2.3	2.4	2.5	2.5
1976	2.6	2.8	2.9	2.8	2.7	2.7	2.6	2.5	2.4	2.5	2.5	2.6
1977	2.7	2.8	2.9	2.8	3.0	2.8	2.7	2.7	2.7	2.8	2.9	3.3
1978	3.1	3.0	3.0	3.1	3.0	3.0	2.9	2.8	3.1	3.4	3.5	3.5
1979	3.4											
Total separations												
1969	4.6	4.9	4.9	4.8	4.8	5.0	4.8	4.9	4.9	5.0	4.9	4.9
1970	5.0	5.2	4.9	5.2	5.0	4.8	4.5	4.8	4.8	5.0	4.7	4.4
1971	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972	4.2	4.1	4.2	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	4.5	4.5	4.6	4.7	4.5	4.8	5.1	4.9
1975	5.2	5.0	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	3.9	3.9	3.8	3.9	3.9	3.9	3.9	3.9	3.7	3.7
1977	4.0	4.1	3.7	3.7	3.8	3.8	3.9	3.9	3.8	3.7	3.9	3.9
1978	3.8	3.8	3.8	4.0	3.9	4.0	3.9	3.7	3.7	3.9	3.9	4.1
1979	4.0											
Quits												
1969	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6
1970	2.4	2.5	2.3	2.3	2.1	2.2	2.1	2.0	2.0	1.9	1.8	1.9
1971	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972	2.1	2.1	2.2	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	2.3	2.3	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	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.7
1977	1.9	1.9	1.8	1.8	1.9	1.8	1.8	1.8	1.9	1.9	2.0	2.0
1978	2.0	2.0	2.0	2.2	2.1	2.1	2.0	1.9	2.0	2.3	2.2	2.2
1979	2.3											
Layoffs												
1969	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.4
1970	1.5	1.7	1.8	1.9	1.9	1.9	1.5	1.9	1.9	2.2	2.0	1.7
1971	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972	1.2	1.2	1.1	1.2	1.2	1.4	1.4	1.1	1.0	1.0	.9	.9
1973	.9	.8	.9	.8	.9	.9	1.2	1.0	.9	.8	1.0	1.1
1974	1.4	1.3	1.2	1.1	1.0	1.1	1.2	1.4	1.3	1.8	2.4	2.5
1975	2.9	2.9	2.7	2.6	2.5	2.2	1.7	1.7	1.7	1.5	1.5	1.3
1976	1.2	1.0	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.3	1.2
1977	1.3	1.4	1.1	1.1	1.1	1.2	1.2	1.3	1.1	1.1	1.0	1.0
1978	.9	.9	1.0	.9	1.0	1.0	.9	.9	.8	.9	.8	.9
1979	.8											

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. 1978	Dec. 1978 ^P	Nov. 1978	Dec. 1978 ^P	Nov. 1978	Dec. 1978 ^P	Nov. 1978	Dec. 1978 ^P	Nov. 1978	Dec. 1978 ^P	Nov. 1978	Dec. 1978 ^P
ALABAMA:												
Birmingham	2.2	1.3	1.3	0.7	0.6	0.4	2.5	1.7	0.8	0.6	0.9	0.5
Mobile ¹	7.7	2.7	1.3	1.0	6.2	1.7	8.9	7.4	1.4	.8	6.7	6.0
ALASKA	5.1	4.1	3.5	3.4	1.4	.3	16.7	12.5	4.7	5.0	10.1	3.7
ARIZONA	4.9	3.6	4.3	3.2	.5	.3	4.3	3.6	2.6	2.0	.6	.6
Phoenix	5.1	3.7	4.5	3.3	.5	.3	4.3	3.7	2.7	2.0	.4	.5
ARKANSAS	5.0	2.9	4.0	2.3	.7	.4	5.6	5.0	3.4	2.4	1.1	1.9
Fort Smith	5.1	3.2	3.8	2.6	.1	.3	5.5	4.0	3.8	2.7	.8	.5
Little Rock—North Little Rock	3.3	2.1	2.7	1.7	.3	.2	4.0	4.6	2.2	1.5	.9	2.3
Pine Bluff	3.5	2.2	2.8	1.7	.4	.1	4.1	2.7	2.1	1.8	1.2	.5
COLORADO ²	4.4	(*)	4.1	(*)	.3	(*)	4.1	(*)	2.6	(*)	.6	(*)
Denver—Boulder ²	4.5	(*)	4.2	(*)	.2	(*)	4.2	(*)	2.7	(*)	.4	(*)
CONNECTICUT	2.4	1.9	2.0	1.5	.2	.2	2.4	2.2	1.2	1.0	.5	.7
Hartford	2.5	2.4	2.2	2.1	.1	.1	1.7	1.9	1.1	.9	.2	.6
DELAWARE	1.7	1.2	.9	.6	.2	.3	1.8	1.6	.7	.5	.8	.7
Wilmington	1.5	1.1	.7	.4	.2	.3	1.5	1.5	.5	.3	.6	.6
FLORIDA	6.2	4.4	4.5	3.5	1.5	.8	4.9	4.6	3.1	2.7	.8	1.0
Fort Lauderdale—Hollywood	6.3	4.3	5.9	3.5	.3	.8	6.0	4.3	4.3	3.1	.3	.2
Jacksonville	4.8	4.2	3.4	2.8	1.4	1.4	4.6	4.4	1.8	2.1	1.9	1.6
Miami	5.6	3.5	5.2	3.1	.4	.4	4.4	4.4	3.2	2.6	.2	.9
Orlando	4.0	4.3	3.4	3.5	.5	.8	3.6	3.3	2.3	2.0	.3	.6
Pensacola	1.1	1.6	.9	1.4	.2	.1	.8	1.4	.5	1.0	.1	(³)
Tampa—St. Petersburg	7.1	6.3	5.4	4.2	1.6	2.0	7.3	6.5	4.2	3.7	2.0	1.7
West Palm Beach—Boca Raton	6.2	5.9	4.8	4.7	1.3	1.2	4.4	3.6	3.2	2.3	.2	.1
GEORGIA ⁴	3.3	2.1	2.7	1.6	.3	.3	3.2	2.4	2.1	1.5	.5	.3
Atlanta	2.9	2.4	2.1	1.6	.5	.6	2.2	2.1	1.2	1.2	.5	.3
HAWAII ⁵	3.0	2.9	1.2	1.0	1.5	1.0	1.7	2.1	1.2	1.5	.1	.3
IDAHO ⁶	3.3	4.0	2.8	2.3	.3	1.4	5.2	5.9	2.6	2.2	1.7	2.9
ILLINOIS:												
Chicago SMSA	3.1	2.2	2.5	1.8	.3	.2	2.9	2.3	1.5	1.2	.4	.4
INDIANA	3.0	1.8	2.1	1.1	.4	.2	3.2	3.0	1.3	.9	1.0	1.4
Indianapolis ⁷	3.1	2.1	1.8	1.3	.3	.4	2.5	2.3	1.1	.7	.5	.8
IOWA	3.1	(*)	2.5	(*)	.4	(*)	3.4	(*)	1.6	(*)	1.2	(*)
Cedar Rapids	2.3	(*)	1.3	(*)	.8	(*)	2.6	(*)	1.0	(*)	1.1	(*)
Des Moines	4.4	(*)	3.2	(*)	.2	(*)	3.9	(*)	2.2	(*)	.8	(*)
KANSAS	4.5	3.1	3.8	2.6	.5	.4	4.0	3.2	2.6	1.9	.5	.5
Topeka	3.7	3.0	1.6	2.4	2.1	.5	2.3	1.7	1.1	.8	.5	.4
Wichita	4.9	2.6	4.4	2.3	.3	.1	3.9	3.8	2.7	1.8	.1	1.0
KENTUCKY	3.7	3.4	2.2	2.0	1.0	1.0	3.6	4.5	1.7	1.3	1.0	2.4
Louisville	2.1	1.8	1.1	.9	.4	.3	2.3	2.6	.9	.7	.4	.9
LOUISIANA:												
New Orleans	4.8	3.2	4.2	2.6	.3	.3	4.3	4.0	2.4	2.0	1.1	1.2
MAINE	4.7	3.9	3.7	3.1	.7	.6	5.0	4.6	2.8	2.1	1.5	1.7
Portland	3.9	3.3	2.8	2.8	.9	.3	3.8	3.8	2.6	1.7	.6	1.1
MARYLAND	2.3	1.5	1.6	1.0	.6	.4	2.6	2.4	1.0	.7	1.0	1.3
Baltimore	2.1	1.3	1.4	.8	.6	.4	2.6	2.2	.9	.6	1.0	1.2
MASSACHUSETTS	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Boston	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
MICHIGAN	2.0	1.5	1.3	.8	.5	.4	2.3	2.1	.8	.6	.7	.9
Detroit	2.1	1.2	1.2	.7	.5	.3	2.1	1.9	.8	.5	.5	.8
Flint	1.0	.8	.7	.5	(³)	(³)	2.2	2.2	.4	.2	.7	.7
Grand Rapids	2.3	1.6	2.0	1.2	.2	.3	2.2	1.9	1.2	.8	.4	.4
Lansing—East Lansing	1.1	.6	.8	.5	.1	(³)	1.0	1.3	.4	.3	.1	.7

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. 1978	Dec. 1978 ^p	Nov. 1978	Dec. 1978 ^p	Nov. 1978	Dec. 1978 ^p	Nov. 1978	Dec. 1978 ^p	Nov. 1978	Dec. 1978 ^p	Nov. 1978	Dec. 1978 ^p
MINNESOTA	3.3	2.7	2.8	2.1	0.4	0.5	3.7	4.0	2.0	1.5	1.1	1.8
Minneapolis—St. Paul	2.8	2.5	2.4	2.0	.2	.4	2.9	3.4	1.6	1.3	.8	1.5
MISSISSIPPI:												
Jackson	4.5	2.3	3.9	2.0	.4	.3	5.0	3.9	2.6	1.9	.9	.9
MISSOURI	2.8	2.1	2.2	1.5	.4	.4	3.0	2.8	1.6	1.2	.8	.9
Kansas City	2.9	2.2	2.4	1.6	.5	.4	2.8	2.4	1.5	1.3	.5	.5
St. Louis	2.1	1.5	1.4	1.0	.5	.4	2.4	2.2	.9	.7	.9	.9
MONTANA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
NEBRASKA	3.8	2.7	3.4	2.3	.2	.3	3.6	3.2	2.5	2.0	.4	.6
NEVADA	10.0	5.0	9.2	4.2	.3	.2	7.0	6.1	5.1	3.2	.3	1.1
NEW HAMPSHIRE	3.8	(*)	3.3	(*)	.3	(*)	3.2	(*)	2.3	(*)	.3	(*)
NEW JERSEY:												
Camden ⁸	2.4	1.8	1.6	1.1	.6	.3	2.7	3.0	.8	.6	1.1	1.3
Hackensack	3.5	3.0	3.1	2.3	.3	.6	5.0	3.6	1.5	1.6	1.2	1.2
Jersey City	1.9	2.7	1.4	2.1	.4	.5	4.3	6.7	.9	.8	2.2	5.1
Newark	2.3	2.1	1.9	1.6	.2	.4	2.5	2.7	1.0	1.0	.6	.9
New Brunswick—Perth Amboy—Sayreville	3.0	1.9	2.6	1.4	.3	.4	3.7	4.2	1.6	1.0	1.2	2.3
Paterson—Clifton—Passaic	2.7	2.4	2.1	1.8	.4	.4	3.4	4.2	1.4	1.2	1.3	2.2
Trenton	2.5	1.8	1.7	1.2	.5	.4	2.3	2.0	.9	.7	.9	.7
NEW YORK	3.1	2.2	2.0	1.3	1.0	.7	3.5	4.0	1.1	.8	1.7	2.5
Albany—Schenectady—Troy	2.0	1.8	1.0	.8	.4	.4	2.9	2.8	.7	.5	1.2	1.3
Binghamton	2.3	1.9	1.9	1.4	.3	.2	1.9	1.9	1.2	.9	.2	.3
Buffalo	2.5	1.9	1.2	.8	1.1	.9	2.1	2.1	.6	.5	.9	1.1
Elmira	2.2	1.9	1.6	1.6	.4	(³)	2.5	2.5	.8	.9	.6	.7
Monroe County ⁹	1.7	1.4	1.3	.9	.2	.3	1.2	1.8	.6	.6	.2	.7
Nassau—Suffolk ¹⁰	4.9	3.2	4.0	2.5	.7	.5	4.5	3.6	2.3	1.5	1.2	1.2
New York and Nassau—Suffolk	4.1	2.7	2.5	1.7	1.5	.9	4.5	5.6	1.3	1.1	2.5	3.8
New York SMSA ¹⁰	3.9	2.6	2.2	1.5	1.6	1.0	4.6	6.1	1.1	1.0	2.8	4.5
New York City ¹¹	4.1	2.8	2.2	1.5	1.8	1.1	4.9	6.1	1.1	1.0	3.2	4.4
Rochester	2.0	1.6	1.5	1.1	.3	.4	2.1	2.7	.8	.7	.7	1.4
Syracuse	2.2	1.4	1.7	1.0	.3	.2	2.3	2.7	.9	.6	.8	1.6
Utica—Rome	1.9	1.4	1.2	.8	.6	.5	2.6	2.1	.7	.5	1.5	1.2
Westchester County ¹¹	2.6	1.8	2.0	1.3	.4	.2	2.1	6.9	1.0	.8	.5	5.7
NORTH CAROLINA	3.9	2.2	3.4	1.8	.3	.2	3.9	2.9	2.6	1.7	.5	.6
Charlotte—Gastonia	4.6	2.4	4.1	2.1	.3	.2	4.4	3.3	3.2	2.1	.3	.5
Greensboro—Winston-Salem—High Point	3.4	2.1	3.1	1.7	.1	.1	3.3	2.9	2.3	1.6	.3	.6
NORTH DAKOTA	5.5	5.7	4.4	4.5	.7	.8	5.2	7.9	3.2	2.6	1.3	5.0
Fargo—Moorhead	3.2	3.3	2.6	2.3	.2	.3	5.1	6.9	2.3	1.6	2.2	3.9
OHIO	2.1	1.6	1.4	1.0	(*)	(*)	2.4	2.1	.9	.7	.8	.8
Akron	1.5	1.1	1.1	.9	(*)	(*)	2.8	1.2	.8	.5	1.4	.2
Canton	2.6	1.7	1.5	1.0	(*)	(*)	2.1	2.1	.8	.5	.2	.5
Cincinnati	2.3	1.9	1.5	1.3	(*)	(*)	2.3	2.3	.9	.8	.6	.8
Cleveland	2.2	1.7	1.6	1.3	(*)	(*)	2.7	1.8	1.2	.8	.5	.3
Columbus	2.1	1.7	1.6	1.1	(*)	(*)	2.3	2.1	1.2	.8	.4	.6
Dayton	1.5	1.1	1.2	.8	(*)	(*)	1.8	1.3	.8	.6	.3	.3
Toledo	2.4	1.7	1.5	.7	(*)	(*)	2.4	2.4	.6	.6	.9	1.2
Youngstown—Warren	1.7	1.3	.7	.4	(*)	(*)	2.2	2.5	.4	.3	1.1	1.6
OKLAHOMA	5.4	3.9	4.9	3.5	.4	.4	5.6	4.6	4.1	3.1	.5	.6
Oklahoma City	5.8	4.0	5.3	3.3	.4	.6	5.8	4.9	4.3	3.3	.5	.6
Tulsa ¹²	5.4	4.2	5.0	3.9	.3	.2	6.1	4.9	4.2	3.0	.5	.7
OREGON ¹	3.6	2.7	3.0	2.1	.6	.4	3.8	3.7	2.0	1.6	1.0	1.4
Portland ¹	4.4	3.3	3.5	2.5	.8	.6	4.1	3.3	2.1	1.6	1.1	1.0
PENNSYLVANIA	2.3	1.8	1.5	1.1	.6	.5	2.7	2.6	1.0	.8	1.1	1.2
Allentown—Bethlehem—Easton	1.8	1.1	1.3	.5	.3	.5	1.9	2.1	.8	.7	.7	1.0
Altoona	2.1	1.3	.4	.3	1.5	.9	3.2	2.2	1.0	.3	1.9	1.6
Erie	2.3	1.5	1.5	1.1	.3	.2	3.8	2.2	.9	.6	2.1	.9
Harrisburg	2.4	2.0	1.7	1.4	.2	.3	2.2	2.6	1.2	1.1	.2	.6
Johnstown	3.4	.9	1.2	.4	2.2	.6	2.8	1.0	.7	.6	.8	.3
Lancaster	3.1	1.7	2.5	1.3	.4	.2	2.9	2.3	1.9	1.1	.6	.7

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. 1978	Dec. 1978 ^P	Nov. 1978	Dec. 1978 ^P	Nov. 1978	Dec. 1978 ^P	Nov. 1978	Dec. 1978 ^P	Nov. 1978	Dec. 1978 ^P	Nov. 1978	Dec. 1978 ^P
PENNSYLVANIA—Continued												
Northeast Pennsylvania	3.5	2.0	1.6	1.0	1.7	0.9	4.0	6.0	1.2	1.0	2.3	4.5
Philadelphia SMSA	2.3	1.7	1.7	1.2	.5	.4	2.4	2.1	.9	.8	.8	.7
Pittsburgh	1.7	1.8	.7	.6	.8	.9	2.3	2.4	.5	.4	1.2	1.3
Reading	2.7	2.3	2.2	1.5	.3	.7	2.6	2.3	1.5	1.0	.6	.8
Scranton	2.6	1.5	1.4	.8	1.1	.6	3.0	5.2	1.1	1.2	1.5	3.7
Wilkes-Barre—Hazleton	2.8	1.5	1.3	.8	1.3	.6	3.9	6.2	1.1	.6	2.4	5.1
Williamsport	3.3	1.8	1.5	.6	1.7	1.1	2.7	1.6	.8	.7	1.6	.5
York	3.6	2.6	3.3	2.1	.2	.4	3.4	5.1	2.1	1.9	.7	2.5
RHODE ISLAND	4.0	2.6	3.4	2.0	.4	.4	4.4	6.9	2.5	2.1	1.0	3.7
Providence—Warwick—Pawtucket	4.0	2.6	3.4	2.0	.4	.4	4.3	6.0	2.5	2.1	.9	2.9
SOUTH CAROLINA	3.4	2.2	2.9	1.8	.3	.3	3.4	2.7	2.1	1.5	.4	.4
Charleston—North Charleston	3.0	1.4	2.3	1.1	.4	.2	3.6	1.8	2.2	1.1	.2	.1
Columbia	3.4	2.2	3.3	2.1	.1	(³)	4.4	2.8	2.0	1.4	1.5	.7
Greenville—Spartanburg	4.0	3.0	3.6	2.2	.2	.6	3.8	3.2	2.5	1.8	.3	.4
SOUTH DAKOTA	4.2	3.2	4.0	2.8	.2	.3	3.3	3.9	2.3	2.1	.3	1.1
Sioux Falls	3.8	3.5	3.6	2.8	.1	.6	3.3	4.6	1.9	1.8	.4	2.0
TENNESSEE:												
Memphis	2.6	1.6	1.8	1.1	.5	.3	2.7	3.2	1.3	.9	.6	1.5
TEXAS:												
Dallas—Fort Worth	5.3	3.8	4.9	3.3	.3	.3	4.6	4.1	3.4	2.9	.3	.3
Houston	4.4	3.1	4.1	2.9	.1	.1	3.8	3.7	2.6	2.4	.2	.4
San Antonio	4.4	3.6	4.2	3.5	.1	.1	4.3	3.4	3.2	2.7	.4	.2
UTAH	6.1	4.7	5.7	4.0	.3	.4	5.3	5.0	3.4	2.8	.9	1.2
Salt Lake City—Ogden	6.2	4.6	5.9	4.3	.2	.2	4.9	4.4	3.4	2.9	.5	.6
VERMONT	3.2	2.7	2.6	2.0	.4	.5	2.9	4.1	1.7	1.2	.8	2.4
Burlington	1.9	1.4	1.5	1.1	.1	.1	1.4	1.1	.8	.5	.4	.4
Springfield	3.4	3.5	2.3	2.4	1.0	1.1	2.8	2.7	1.2	1.0	1.1	1.2
VIRGINIA	3.7	2.4	2.5	1.3	1.1	.8	3.8	3.7	1.7	1.2	1.3	1.7
Richmond	1.4	1.6	1.3	1.1	.1	(³)	2.3	1.9	.8	.7	1.2	.6
WASHINGTON: ¹⁴												
Seattle—Everett	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
WISCONSIN	2.4	1.9	1.8	1.2	.3	.4	2.8	2.7	1.1	.9	1.0	1.2
Milwaukee	2.4	1.9	1.8	1.3	.3	.3	2.5	2.5	1.0	.9	.7	.8
WYOMING	7.6	4.6	6.6	4.0	1.0	.6	8.9	7.0	4.3	4.0	2.5	1.5

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

SOURCE: Cooperating State agencies listed on inside back cover.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
ALABAMA	1,530.2	1,603.9	1,584.7	115.9	96.7	116.3	7.6	6.0	7.3
Birmingham	357.5	375.8	373.5	23.7	20.7	25.3	6.6	5.5	6.8
Huntsville	127.6	133.9	132.9	9.4	8.1	9.7	7.3	6.1	7.3
Mobile	172.8	179.4	175.2	13.6	11.7	13.6	7.9	6.5	7.8
Montgomery	107.2	116.2	114.9	5.8	6.0	6.7	5.4	5.2	5.8
Tuscaloosa	52.1	51.3	50.8	4.5	3.0	3.6	8.6	5.8	7.1
ALASKA	167.6	171.3	N.A.	20.0	19.5	N.A.	12.0	11.4	N.A.
ARIZONA	980.1	1,040.4	1,033.0	70.1	55.7	69.8	7.2	5.4	6.8
Phoenix	586.9	630.2	624.5	36.1	28.4	34.7	6.2	4.5	5.6
Tucson	179.0	186.1	186.0	12.2	8.3	10.8	6.8	4.5	5.8
ARKANSAS	883.0	914.2	901.7	64.9	68.4	72.7	7.4	7.5	8.1
Fayetteville—Springdale	69.8	72.6	71.8	4.2	4.0	4.5	6.0	5.5	6.3
Fort Smith ¹	79.6	85.6	83.9	5.9	8.3	8.1	7.4	9.7	9.7
Little Rock—North Little Rock	170.3	176.9	173.8	8.9	10.1	9.4	5.2	5.7	5.4
Pine Bluff	35.1	36.3	34.6	2.6	2.8	2.8	7.4	7.7	8.1
CALIFORNIA ²	10,311.9	10,781.7	10,806.5	815.5	677.4	779.9	7.9	6.3	7.2
Anaheim—Santa Ana—Garden Grove	954.8	1,023.7	1,036.0	54.5	42.3	49.2	5.7	4.1	4.7
Bakersfield	164.3	169.0	170.5	15.4	15.8	15.6	9.4	9.4	9.2
Fresno	243.3	251.4	249.1	25.2	21.5	23.1	10.4	8.5	9.3
Los Angeles—Long Beach ²	3,353.0	3,579.0	3,541.0	249.0	198.0	229.0	7.4	5.5	6.5
Modesto	122.4	127.0	127.8	15.9	14.3	16.5	13.0	11.2	12.9
Oxnard—Simi Valley—Ventura	205.9	209.5	208.5	18.1	16.6	17.7	8.8	7.9	8.5
Riverside—San Bernardino—Ontario	537.3	559.2	563.5	40.1	35.6	38.4	7.5	6.4	6.8
Sacramento	431.0	445.0	450.8	36.2	33.3	38.4	8.4	7.5	8.5
Salinas—Seaside—Monterey	117.6	122.6	120.1	13.9	10.7	13.5	11.8	8.8	11.2
San Diego	668.7	704.0	709.7	47.8	40.8	48.3	7.1	5.8	6.8
San Francisco—Oakland	1,546.6	1,582.3	1,596.7	99.8	87.1	98.6	6.5	5.5	6.2
San Jose	641.5	663.7	667.5	42.1	34.5	38.3	6.6	5.2	5.7
Santa Barbara—Santa Maria—Lompoc	137.6	137.6	142.7	10.9	8.9	11.4	7.9	6.4	8.0
Santa Rosa	116.8	118.7	120.6	10.6	7.9	9.8	9.1	6.7	8.1
Stockton	147.8	155.5	154.7	19.7	17.5	19.4	13.3	11.3	12.5
Vallejo—Fairfield—Napa	117.2	118.3	120.3	9.0	7.5	8.7	7.7	6.3	7.3
COLORADO	1,257.5	1,305.9	1,288.2	83.2	71.5	69.9	6.6	5.5	5.4
Denver—Boulder	743.5	775.2	765.3	43.6	39.5	37.1	5.9	5.1	4.9
CONNECTICUT	1,480.8	1,540.3	1,531.3	94.5	66.1	93.7	6.4	4.3	6.1
Bridgeport	181.8	188.5	187.8	12.3	8.4	11.7	6.8	4.5	6.2
Hartford	353.8	369.6	365.8	20.6	14.8	20.5	5.8	4.0	5.6
New Britain	68.8	71.7	71.4	4.9	3.2	4.4	7.1	4.5	6.2
New Haven—West Haven	189.6	199.1	195.7	12.1	8.5	12.1	6.4	4.3	6.2
Stamford	114.6	119.2	120.3	5.2	4.3	5.4	4.6	3.6	4.5
Waterbury	105.8	108.6	106.7	7.9	5.2	7.8	7.4	4.8	7.3
DELAWARE	263.7	275.1	270.4	21.2	19.7	19.1	8.0	7.2	7.1
Wilmington ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
DISTRICT OF COLUMBIA	329.0	328.9	330.4	30.6	24.3	24.4	9.3	7.4	7.4
Washington SMSA ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
FLORIDA ²	3,616.5	3,689.9	3,756.4	270.6	234.9	283.3	7.5	6.4	7.5
Fort Lauderdale—Hollywood	376.6	375.6	385.2	30.0	22.3	27.2	8.0	5.9	7.1
Jacksonville	291.6	296.6	300.3	20.3	17.0	22.2	6.9	5.7	7.4
Miami	676.0	683.2	694.3	54.1	45.5	52.5	8.0	6.7	7.6
Orlando	279.3	293.3	299.5	19.9	17.3	21.0	7.1	5.9	7.0
Pensacola	104.3	108.1	108.5	6.6	6.9	8.7	6.3	6.4	8.0
Tampa—St. Petersburg	552.0	558.7	568.7	39.2	33.0	39.4	7.1	5.9	6.9
West Palm Beach—Boca Raton	211.9	218.3	222.9	15.0	13.9	16.4	7.1	6.4	7.4
GEORGIA	2,259.7	2,324.4	N.A.	147.8	123.6	N.A.	6.5	5.3	N.A.
Albany	45.7	49.1	N.A.	3.3	2.8	N.A.	7.3	5.7	N.A.
Atlanta	888.9	919.4	N.A.	54.8	47.2	N.A.	6.2	5.1	N.A.
Augusta	119.0	124.6	N.A.	8.3	6.7	N.A.	7.0	5.4	N.A.
Columbus	82.4	85.1	N.A.	5.6	5.2	N.A.	6.8	6.1	N.A.
Macon	101.5	102.3	N.A.	8.1	6.2	N.A.	8.0	6.1	N.A.
Savannah	87.4	91.6	N.A.	5.5	5.4	N.A.	6.3	5.9	N.A.

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. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
HAWAII	392.2	398.7	395.8	30.6	26.6	31.4	7.8	6.7	7.9
Honolulu	309.4	315.5	311.8	23.5	20.4	24.1	7.6	6.5	7.7
IDAHO	382.8	404.8	399.5	26.2	26.6	35.2	6.8	6.6	8.8
Boise City	80.1	92.2	86.9	3.1	4.0	5.3	3.9	4.4	6.1
ILLINOIS ²	5,246.7	5,370.2	5,272.1	395.3	307.5	303.1	7.5	5.7	5.7
Bloomington—Normal	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Champaign—Urbana—Rantoul	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Chicago	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Davenport—Rock Island—Moline ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Decatur	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Peoria	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Rockford	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Springfield	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
INDIANA	2,498.5	2,612.6	2,594.2	162.8	155.5	165.1	6.5	6.0	6.4
Anderson	59.8	61.6	61.1	3.5	4.0	4.1	5.9	6.5	6.7
Evansville ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Fort Wayne	181.2	189.1	189.1	9.6	9.0	9.7	5.3	4.8	5.1
Gary—Hammond—East Chicago	279.2	294.2	290.3	18.2	18.1	17.3	6.5	6.2	6.0
Indianapolis	563.2	588.2	581.3	32.1	31.5	33.3	5.7	5.3	5.7
Lafayette—West Lafayette	60.1	64.3	64.4	3.1	2.5	3.6	5.2	3.8	5.6
Muncie	55.9	57.3	57.1	3.7	3.7	4.4	6.6	6.5	7.6
South Bend	136.8	143.3	141.6	8.0	8.1	7.9	5.9	5.6	5.6
Terre Haute	79.2	82.5	82.2	5.6	4.8	5.6	7.1	5.9	6.8
IOWA	1,347.8	1,398.5	1,364.1	67.0	59.4	69.3	5.0	4.2	5.1
Cedar Rapids	N.A.	N.A.	84.7	N.A.	N.A.	3.5	N.A.	N.A.	4.2
Des Moines	N.A.	N.A.	178.6	N.A.	N.A.	8.4	N.A.	N.A.	4.7
Dubuque	N.A.	N.A.	44.2	N.A.	N.A.	2.9	N.A.	N.A.	6.6
Sioux City ¹	N.A.	N.A.	55.5	N.A.	N.A.	4.5	N.A.	N.A.	8.2
Waterloo—Cedar Falls	N.A.	N.A.	67.4	N.A.	N.A.	3.6	N.A.	N.A.	5.4
KANSAS	1,112.0	1,161.3	1,158.8	43.3	32.5	40.8	3.9	2.8	3.5
Topeka	92.9	96.0	95.9	4.3	3.4	4.3	4.6	3.5	4.5
Wichita	206.1	220.8	221.4	8.3	6.1	7.3	4.0	2.8	3.3
KENTUCKY	1,459.4	1,583.3	N.A.	84.5	77.6	N.A.	5.8	4.9	N.A.
Lexington—Fayette	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Louisville	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	1,540.3	1,602.7	1,603.2	107.7	101.4	100.5	7.0	6.3	6.3
Alexandria	65.0	65.8	66.1	5.8	5.1	4.9	9.0	7.7	7.5
Baton Rouge	194.1	200.1	200.1	12.6	12.6	12.0	6.5	6.3	6.0
Lafayette	60.1	64.9	64.3	2.8	3.2	2.7	4.7	4.9	4.2
Lake Charles	62.9	64.0	64.5	5.0	4.2	4.0	7.9	6.6	6.3
Monroe	49.8	52.1	53.2	3.4	3.4	3.9	6.9	6.5	7.4
New Orleans	450.7	455.7	457.9	31.2	26.2	25.9	6.9	5.8	5.6
Shreveport	141.7	147.2	148.1	8.9	8.4	8.4	6.3	5.7	5.7
MAINE	451.9	472.5	468.7	36.9	27.5	35.2	8.2	5.8	7.5
Lewiston—Auburn	36.2	36.6	37.3	2.5	1.7	2.4	6.9	4.7	6.5
Portland	80.2	86.0	84.7	5.1	4.0	4.7	6.3	4.7	5.5
MARYLAND	1,933.5	2,064.2	N.A.	123.2	114.5	N.A.	6.4	5.5	N.A.
Baltimore	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
MASSACHUSETTS ²	2,815.2	2,842.1	2,904.6	211.9	162.5	219.2	7.5	5.7	7.5
Boston	1,359.3	1,370.9	1,412.6	94.0	71.4	98.8	6.9	5.2	7.0
Brockton	80.0	83.4	85.5	6.4	4.7	6.8	8.0	5.6	7.9
Fall River ¹	78.9	79.8	83.8	6.9	5.8	7.6	8.8	7.3	9.1
Lawrence—Haverhill ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Lowell ¹	113.1	112.2	116.7	9.5	6.5	9.1	8.4	5.8	7.8
New Bedford	83.1	82.9	84.9	9.2	7.0	8.8	11.0	8.4	10.3
Springfield—Chicopee—Holyoke ¹	271.7	275.8	278.9	17.6	15.1	17.4	6.5	5.5	6.2
Worcester	195.8	198.3	203.9	12.1	9.1	12.6	6.2	4.6	6.2
MICHIGAN ²	4,173.9	4,284.1	4,275.0	340.0	288.5	341.3	8.1	6.7	8.0
Ann Arbor	N.A.	N.A.	139.6	N.A.	N.A.	7.5	N.A.	N.A.	5.4

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. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
MICHIGAN—Continued									
Battle Creek	N.A.	N.A.	82.6	N.A.	N.A.	6.1	N.A.	N.A.	7.4
Bay City	N.A.	N.A.	54.7	N.A.	N.A.	3.9	N.A.	N.A.	7.2
Detroit	N.A.	N.A.	2,027.5	N.A.	N.A.	150.7	N.A.	N.A.	7.4
Flint	N.A.	N.A.	232.0	N.A.	N.A.	20.1	N.A.	N.A.	8.7
Grand Rapids	N.A.	N.A.	291.4	N.A.	N.A.	18.5	N.A.	N.A.	6.4
Jackson	N.A.	N.A.	67.7	N.A.	N.A.	4.8	N.A.	N.A.	7.1
Kalamazoo—Portage	N.A.	N.A.	132.6	N.A.	N.A.	8.8	N.A.	N.A.	6.6
Lansing—East Lansing	N.A.	N.A.	232.3	N.A.	N.A.	15.8	N.A.	N.A.	6.8
Muskegon—Norton Shores—Muskegon Heights	N.A.	N.A.	77.4	N.A.	N.A.	7.6	N.A.	N.A.	9.8
Saginaw	N.A.	N.A.	108.1	N.A.	N.A.	7.4	N.A.	N.A.	6.8
MINNESOTA									
Duluth—Superior ¹	1,096.8	2,018.4	1,982.2	101.1	80.8	95.6	5.3	4.0	4.8
Minneapolis—St. Paul	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	1,016.9	1,079.7	1,059.1	38.8	32.5	36.9	3.8	3.0	3.5
MISSISSIPPI									
Jackson	925.4	970.6	963.6	64.1	66.9	70.1	6.9	6.9	7.3
	131.6	145.3	142.7	7.1	7.1	6.7	5.4	4.9	4.7
MISSOURI									
Kansas City ¹	2,218.0	2,267.3	2,236.4	143.2	107.5	120.8	6.5	4.7	5.4
St. Joseph	677.8	695.0	686.3	34.7	27.2	29.8	5.1	3.9	4.3
St. Louis ¹	45.2	44.5	43.9	2.9	2.3	2.4	6.4	5.1	5.6
Springfield	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	99.8	103.7	102.5	5.2	4.1	4.6	5.2	3.9	4.5
MONTANA									
Billings	338.7	361.2	356.7	26.6	23.1	26.3	7.8	6.4	7.4
Great Falls	51.2	54.4	53.5	3.1	2.7	3.0	6.1	4.9	5.7
	33.2	35.6	35.0	2.8	2.8	3.0	8.3	7.9	8.5
NEBRASKA									
Lincoln	735.5	759.9	746.8	31.8	24.2	25.2	4.3	3.2	3.4
Omaha ¹	104.7	112.5	111.2	4.7	2.8	3.2	4.5	2.5	2.9
	N.A.	N.A.	272.5	N.A.	N.A.	11.0	N.A.	N.A.	4.0
NEVADA									
Las Vegas	318.4	346.3	331.3	20.3	15.5	17.0	6.4	4.5	5.1
Reno	173.6	185.8	178.1	11.5	8.6	8.9	6.6	4.7	5.0
	90.7	102.0	97.5	4.9	3.1	4.1	5.4	3.0	4.2
NEW HAMPSHIRE									
Manchester	406.5	440.7	N.A.	19.8	20.1	N.A.	4.9	4.6	N.A.
Nashua	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NEW JERSEY									
Atlantic City	3,358.5	3,564.7	3,511.2	263.0	246.2	262.4	7.8	6.9	7.5
Jersey City	78.0	86.7	85.6	9.3	9.1	10.0	12.0	10.5	11.6
Long Branch—Asbury Park	254.5	263.0	252.4	29.2	29.3	27.8	11.5	11.1	11.0
Newark	214.3	227.0	220.0	17.0	17.7	19.2	7.9	7.8	8.7
New Brunswick—Perth Amboy—Sayreville	947.0	1,004.6	968.0	65.8	61.5	62.5	6.9	6.1	6.5
Paterson—Clifton—Passaic	311.0	328.6	307.2	20.5	19.9	18.1	6.6	6.1	5.9
Trenton	210.4	227.5	222.4	19.2	18.2	19.0	9.1	8.0	8.5
Vineland—Millville—Bridgeton	157.4	165.6	161.3	8.9	7.8	9.5	5.7	4.7	5.9
	60.4	63.9	62.9	6.4	6.7	7.3	10.6	10.5	11.7
NEW MEXICO									
Albuquerque	499.9	531.5	522.6	33.5	28.7	35.5	6.7	5.4	6.8
	188.9	199.5	198.8	12.1	10.1	12.5	6.4	5.1	6.3
NEW YORK									
Albany—Schenectady—Troy	7,764.9	7,972.8	7,987.1	680.3	527.1	617.7	8.8	6.6	7.7
Binghamton ¹	366.7	379.8	379.8	23.5	20.9	24.4	6.4	5.5	6.4
Buffalo	135.7	142.4	143.0	10.4	7.4	8.9	7.6	5.2	6.2
Elmira	563.9	587.5	588.8	49.8	37.1	47.1	8.8	6.3	8.0
Nassau—Suffolk	39.7	40.8	41.3	3.3	2.1	2.9	8.2	5.2	7.0
New York ¹	1,216.9	1,280.0	1,291.7	89.5	68.9	84.6	7.4	5.4	6.5
New York City ²	3,608.8	3,602.3	3,622.3	353.7	267.2	301.3	9.8	7.4	8.3
Poughkeepsie	3,038.0	2,996.0	3,025.0	320.0	239.0	266.0	10.5	8.0	8.8
Rochester	99.5	106.5	105.7	5.7	4.7	5.8	5.7	4.4	5.5
Syracuse	452.7	476.2	475.8	29.5	22.6	27.9	6.5	4.8	5.9
Utica—Rome	292.9	311.6	309.1	20.8	17.4	21.0	7.1	5.6	6.8
	135.1	139.3	139.5	11.0	9.1	10.2	8.2	6.5	7.3
NORTH CAROLINA									
Asheville	2,642.0	2,673.0	2,656.3	187.3	95.5	128.5	7.1	3.6	4.8
Charlotte—Gastonia	80.4	81.9	81.1	5.4	3.4	4.4	6.8	4.2	5.5
	327.8	332.6	331.7	16.3	8.6	10.8	5.0	2.6	3.3

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
NORTH CAROLINA—Continued									
Greensboro—Winston-Salem—High Point	413.5	415.2	414.6	23.0	11.7	16.3	5.6	2.8	3.9
Raleigh—Durham	268.6	276.6	274.7	11.6	6.1	7.9	4.3	2.2	2.9
NORTH DAKOTA	270.7	276.8	274.2	19.6	14.8	17.5	7.2	5.3	6.4
Fargo—Moorhead ¹	68.6	70.6	69.0	3.9	2.8	3.4	5.7	3.9	4.9
OHIO	4,753.7	5,082.1	4,997.1	291.3	245.6	331.1	6.1	4.8	6.6
Akron	289.0	305.4	301.0	17.7	15.3	20.4	6.1	5.0	6.8
Canton	171.4	183.7	180.6	11.1	9.4	12.3	6.5	5.1	6.8
Cincinnati ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Cleveland	890.4	952.7	931.1	45.8	39.1	50.2	5.1	4.1	5.4
Columbus	509.4	551.5	535.7	25.6	22.4	29.0	5.0	4.1	5.4
Dayton	365.1	393.8	386.2	17.4	15.4	21.9	4.8	3.9	5.7
Toledo	N.A.	N.A.	368.4	N.A.	N.A.	28.6	N.A.	N.A.	7.8
Youngstown—Warren	228.9	240.3	236.5	18.9	14.3	18.4	8.3	5.9	7.8
OKLAHOMA	1,217.5	1,275.6	1,246.8	52.4	46.1	49.2	4.3	3.6	3.9
Oklahoma City	363.5	390.2	382.0	13.6	12.2	13.9	3.7	3.1	3.6
Tulsa	291.9	302.8	296.8	12.5	9.8	11.7	4.3	3.2	3.9
OREGON	1,149.4	1,206.6	1,202.0	87.2	72.5	97.1	7.6	6.0	8.1
Eugene—Springfield	120.2	126.5	125.6	9.6	8.8	11.0	8.0	6.9	8.8
Portland ¹	556.7	589.1	N.A.	35.7	28.6	N.A.	6.4	4.9	N.A.
Salem	107.0	111.8	112.6	8.3	7.3	9.3	7.7	6.5	8.3
PENNSYLVANIA	5,115.1	5,346.6	5,275.6	405.2	320.2	376.0	7.9	6.0	7.1
Allentown—Bethlehem—Easton ¹	286.4	299.5	300.4	19.0	15.5	19.6	6.6	5.2	6.5
Altoona	56.1	57.0	58.2	4.8	4.7	5.1	8.5	8.2	8.8
Erie	118.4	125.8	126.3	8.8	8.3	9.5	7.4	6.6	7.5
Harrisburg	208.5	217.6	219.1	11.8	8.5	11.9	5.7	3.9	5.4
Johnstown	109.2	107.9	106.8	14.1	9.8	10.0	12.9	9.1	9.4
Lancaster	164.9	174.5	174.4	9.8	6.5	8.3	5.9	3.7	4.7
Northeast Pennsylvania	269.2	284.1	282.2	26.5	23.9	26.2	9.9	8.4	9.3
Philadelphia ¹	2,027.7	2,124.6	2,098.6	155.6	129.8	149.7	7.7	6.1	7.1
Pittsburgh	965.1	1,004.7	1,011.7	67.7	50.6	63.4	7.0	5.0	6.3
Reading	141.9	151.0	152.1	8.5	5.9	8.2	6.0	3.9	5.4
Williamsport	51.1	54.6	54.5	4.7	3.9	4.5	9.3	7.1	8.2
York	159.3	169.6	169.2	10.0	6.7	8.9	6.3	4.0	5.3
RHODE ISLAND	423.9	440.4	427.2	34.6	27.0	33.7	8.2	6.1	7.9
Providence—Warwick—Pawtucket ¹	433.4	445.4	434.1	35.1	26.8	34.2	8.1	6.0	7.9
SOUTH CAROLINA	1,253.2	1,292.1	1,269.6	79.2	65.7	74.3	6.3	5.1	5.9
Charleston—North Charleston	146.4	152.1	150.1	9.6	8.3	8.9	6.5	5.5	5.9
Columbia	164.8	173.0	168.0	7.4	6.7	7.2	4.5	3.9	4.3
Greenville—Spartanburg	252.1	257.2	252.6	13.9	9.1	11.0	5.5	3.5	4.4
SOUTH DAKOTA	306.5	319.6	318.4	13.9	10.8	14.4	4.5	3.4	4.5
Sioux Falls	57.0	59.7	60.1	2.2	1.4	2.2	3.9	2.4	3.6
TENNESSEE	1,876.3	1,953.2	1,936.6	129.0	112.3	140.4	6.9	5.8	7.3
Chattanooga ¹	184.6	186.6	N.A.	12.4	9.7	N.A.	6.7	5.2	N.A.
Knoxville	198.9	208.5	207.4	10.5	11.5	11.6	5.3	5.5	5.6
Memphis ¹	361.7	376.2	375.0	20.8	19.5	25.2	5.8	5.2	6.7
Nashville—Davidson	380.7	404.6	400.3	19.2	17.5	19.0	5.1	4.3	4.7
TEXAS	5,896.0	6,095.7	6,084.6	324.2	283.6	269.0	5.5	4.7	4.4
Amarillo	83.5	86.3	86.1	3.6	3.5	3.6	4.3	4.0	4.1
Austin	228.2	239.7	240.1	8.9	7.9	7.5	3.9	3.3	3.1
Beaumont—Port Arthur—Orange	166.4	166.9	167.0	12.5	11.1	11.0	7.5	6.7	6.6
Corpus Christi	129.0	131.4	130.9	8.2	6.9	6.2	6.4	5.2	4.8
Dallas—Fort Worth	1,354.2	1,429.4	1,431.8	62.9	52.5	55.6	4.6	3.7	3.9
El Paso	165.2	170.2	169.0	17.4	15.1	13.2	10.6	8.8	7.8
Galveston—Texas City	79.7	83.7	82.7	6.1	5.5	4.6	7.7	6.6	5.5
Houston	1,315.0	1,370.7	1,379.4	60.2	49.5	48.0	4.6	3.6	3.5
Lubbock	99.1	105.4	102.7	4.2	4.1	3.6	4.2	3.9	3.5
San Antonio	399.3	408.3	406.9	27.7	24.9	22.7	6.9	6.1	5.6
Waco	75.3	76.9	77.1	3.9	3.3	3.2	5.2	4.2	4.2
Wichita Falls	58.9	59.7	59.7	2.2	2.3	2.2	3.8	3.9	3.7

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. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P	JAN. 1978	DEC. 1978	JAN. 1979P
UTAH	522.7	556.7	541.0	26.1	22.8	24.0	5.0	4.1	4.4
Salt Lake City—Ogden	345.6	369.8	358.9	16.4	14.7	15.0	4.8	4.0	4.2
VERMONT	228.5	240.1	236.5	16.8	13.2	16.3	7.4	5.5	6.9
VIRGINIA	2,360.5	2,469.0	2,420.6	150.4	128.9	144.7	6.4	5.2	6.0
Lynchburg	70.8	73.8	72.0	4.0	3.1	3.5	5.6	4.2	4.9
Newport News—Hampton	150.5	154.9	152.4	10.9	9.9	11.7	7.3	6.4	7.7
Norfolk—Virginia Beach—Portsmouth ¹	306.7	321.1	314.2	22.2	18.8	19.9	7.2	5.9	6.3
Petersburg—Colonial Heights—Hopewell	58.3	60.9	60.5	3.6	3.9	4.2	6.1	6.3	6.9
Richmond	304.3	321.9	317.0	11.7	10.4	11.6	3.9	3.2	3.7
Roanoke	108.9	110.5	107.9	8.3	5.1	6.3	7.7	4.6	5.8
WASHINGTON	1,665.8	1,798.2	N.A.	148.6	115.6	N.A.	8.9	6.4	N.A.
Seattle—Everett	721.5	790.6	N.A.	54.1	39.4	N.A.	7.5	5.0	N.A.
Spokane	135.4	144.9	N.A.	11.1	9.1	N.A.	8.2	6.3	N.A.
Tacoma	159.7	168.2	N.A.	15.0	11.0	N.A.	9.4	6.6	N.A.
WEST VIRGINIA	716.4	725.6	N.A.	68.9	44.2	N.A.	9.6	6.1	N.A.
Charleston	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
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.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Wheeling ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
WISCONSIN	2,216.7	2,350.1	N.A.	139.9	122.6	N.A.	6.3	5.2	N.A.
Appleton—Oshkosh	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Eau Claire	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Green Bay	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Kenosha	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
La Crosse	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Madison	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Milwaukee	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Racine	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
WYOMING	187.9	218.1	202.5	7.5	7.8	8.1	4.0	3.6	4.0

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.)

NOTE: Estimates for 1978 have been benchmarked to 1978 Current Population Survey annual averages. Except in the 10 States and 2 areas designated by footnote 2, estimates for

1979 are provisional and will be revised when new benchmark information becomes available. Data refer to place of residence.

p=preliminary.

N.A.=not available.

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

Labor force and unemployment estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the National Technical Information Service. When ordering, please specify "CETA Area Employment and Unemployment," "State, County, and Selected City Employment and Unemployment," and "Unemployment Rates for State and Local Governments." A complete set of price schedules and publications is available from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield Virginia, 22161.

Explanatory Notes

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

Introduction

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

Data based on household interviews are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 56,000 households, representing 614 areas in 1,113 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

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

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

Employment

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

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

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

For a comprehensive discussion of the differences between household and establishment survey employment data, see Gloria P. Green's article "Comparing Employment Estimates from Household and Payroll Surveys," *Monthly Labor Review*, December 1969. Reprints of this article are available upon request from the Bureau of Labor Statistics.

Hours of work

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

COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

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

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

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

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

COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

Household data

(A tables)

COLLECTION 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 obtained from the Department of Defense.

Each month, 56,000 occupied units are eligible for interview. About 2,500 of these households are visited but interviews are not obtained because the occupants are not found at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of about 4 percent. In addition to the 56,000 occupied units, there are 9,500 sample units in an average month which are visited but found to be vacant or otherwise not to be enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from 1 month to the next and one-half to be common with the same month a year earlier.

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

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

CONCEPTS

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

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

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

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

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

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

Unemployed persons by reasons for unemployment are divided into four major groups. (1) Job losers are persons whose employment ended involuntarily who immediately began looking for work and persons on layoff. (2) Job leavers are persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work. (3) Reentrants are persons who previously worked at a full-time job lasting 2 weeks or longer but were out of the labor 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 public or private employment agency or to an employer directly, seeking assistance from friends or relatives, placing or answering ads, or utilizing some "other" method. Examples of the "other" category include being on a union or professional register, obtaining assistance from a community organization, or waiting at a designated pick-up point.

The civilian labor force comprises the total of all civilians classified as employed or unemployed in accordance with the criteria

described above. The "total labor force" also includes members of the Armed Forces stationed either in the United States or abroad.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Nonveterans are males who never served in the Armed Forces.

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

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

HISTORIC COMPARABILITY

Raised lower age limit

Beginning with data for 1967, the lower age limit for official statistics on persons in the labor force was raised from 14 to 16 years. At the same time, several definitions were sharpened to clear up ambiguities. The principal definitional changes were: (1) Counting as unemployed only persons who were currently available for work and who had engaged in some specific jobseeking activity within the past 4 weeks, an exception to the latter condition is made for persons waiting to start a new job in 30 days or waiting to be recalled from layoff; in the past, the current availability test was not applied and the time period for jobseeking was ambiguous; (2) counting as employed persons who were absent from their jobs in the survey week because of strikes, bad weather, etc. and were also looking for other jobs; previously, these persons had been classified as unemployed; (3) sharpening the questions on hours of work, duration of unemployment, and self-employment in order to increase their reliability.

These changes did not affect the unemployment rate by more than one-fifth of a percentage point in either direction, although the distribution of unemployment by sex was affected. The number of employed was reduced about 1 million because of the exclusion of 14- and 15-year-olds. For persons 16 years and over, the only employment series appreciably affected were those relating to hours of work and class of worker. A detailed discussion of the changes and their effect on the various series is contained in "New Definitions for Employment and Unemployment" by Robert L. Stein in the February 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*. Reprints may be obtained upon request.

Noncomparability of labor force levels

Before the changes introduced in 1967, the labor force data were not comparable for three earlier periods: (1) Beginning 1953, as a result of the introduction of data from the 1950 census into the estimation procedure, population levels were raised by about 600,000; labor force, total employment, and agricultural employment by about 350,000, primarily affecting the figures for totals and males; other categories were relatively unaffected; (2) beginning 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force, four-fifths of this in nonagricultural employment; other labor force categories were not appreciably affected; (3) beginning 1962, the introduction of figures from the 1960 census reduced the population by about 50,000, labor force and employment by about 200,000; unemployment totals were virtually unchanged.

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

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

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

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

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 is to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households has race determined by the household respondent and seven-eighths of the sample households has race determined by interviewer observation. The corresponding numbers are 2/8 and 6/8 in November 1978, 3/8 and 5/8 in December 1978, 4/8 and 4/8 from January 1979 through September 1979, 5/8 and 3/8 in October 1979, and so on, until the entire sample has race determined by the household respondent in January 1980. Although the impact of this change is presently unknown, it is possible that it will cause a break in the time series given for some racial statistics.

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 estimates and nonmetropolitan estimates, not for the total U.S.

Changes in occupational classification system

Beginning with 1971, the comparability of occupational employment data was affected as a result of changes in census occupational classifications introduced into the Current Population Survey (CPS). These changes stemmed from an exhaustive review of the classification system to be used for the 1970 Census of Population. This review, the most comprehensive since the 1940 census, was to reduce the size of large groups, to be more specific about general and "not elsewhere classified" groups, and to provide information on emerging significant occupations. Differences in March 1970 employment levels tabulated on both the 1960 and 1970 classification systems ranged from a drop of 650,000 in operatives to an increase of 570,000 in service workers, much of which resulted from a shift between these two groups; the non-farm laborers group increased by 420,000, and changes in other groups amounted to 220,000 or less.

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

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

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

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 eight 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. A recent change was introduced in January 1978, when a supplemental sample of housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual

Time period	Number of sample areas ¹	Households eligible		Households visited not eligible ²
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	333 ³	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 present	614	53,500	2,500	9,500

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

² These are households which were visited, but were found to

be vacant or otherwise not eligible for interview.

³ Three sample areas were added in 1960 to represent Alaska and Hawaii after statehood.

average estimates for States, was incorporated with the existing design. A coverage improvement sample 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. This sample is composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units. These new construction units are composed of those units where building permits were issued prior to January 1970 and construction was not completed by the time of the 1970 Census (i.e., April 1970). The extent of other sources of housing undercoverage is unknown but believed to be small. The inclusion of this coverage improvement sample in the CPS does not have a significant effect on the estimates.

The following table provides a description of some aspects of the CPS sample design in use during the referenced data collection periods. For a more detailed account of the history of the CPS sample design, see *The Current Population Survey: Design and Methodology*, U.S. Department of Commerce, Bureau of the Census, Technical Paper No. 40, 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 expansion, 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 3 to 5 percent depending on weather, vacations, etc.

2. *Ratio estimates.* The distribution of the population selected for the sample may differ somewhat, by chance, from that of the 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 614 sample areas are chosen to represent other areas not in 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 secondly, 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 White-Nonwhite race, while the State adjustment is done by Urban-Rural status and White-Nonwhite race.

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

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 qualify some sources of nonsampling error in the CPS as discussed below. The effect of nonsampling error should be small on estimates of relative change, such as month-to-month change. Estimates of monthly levels would be more severely affected by the nonsampling error.

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

Nonsampling errors occurring in the interview phase of the survey have been studied by means of a reinterview program.

This 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. U.S. Department of Commerce, Bureau of the Census.

The effects of some components of nonsampling error in the CPS data can be examined as a result of the rotation plan used for the sample, since the level of the estimates vary by rotation group. A description of these effects appears in the article "The Effects of Rotation Group Bias on Estimates from Panel Surveys," by Barbara A. Bailer, *Journal of the American Statistical Association*, Volume 70, 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, Proceedings of the Annual Meetings of the American Statistical Association, Social Statistics Section, Chicago, Illinois, August 1977; in the paper "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Vol. 2, No. 2, April 1973; and in *The Current Population Survey, Design and Methodology*, Technical Paper No. 40, U.S. Department of Commerce, Bureau of the Census. This last document includes a comprehensive and up-to-date discussion of various sources of errors, and describes attempts to measure them in the CPS.

Sampling error. 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 enables one to construct confidence intervals, ranges that would include the average of all possible samples with a known probability. For example, if all possible samples were selected, each of these surveyed under essentially the same general conditions and using the same sample design, and an estimate and its estimated error were calculated from each sample, then:

1. Approximately 68 percent of the intervals from the one standard error or below the estimate to one standard error above the estimate would include the average result of all possible sample.
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 procedure in effect prior to the expansion for annual average State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Secondly, instead of computing an individual standard error for each estimate, generalized sets of standard errors were computed for various types of characteristics. This generalization yields more stable estimates of the standard errors. Consequently, the sets of standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

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

Tables C through G provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table H contains factors for use with table G for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. The standard

error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between two consecutive months. Estimates of change 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 1956-1966 period they should be multiplied by 1.22.

Table A. Standard errors of major employment status categories

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
<i>(In thousands)</i>		
Total, 16 years and over:		
Civilian labor force	223	171
Employed	236	180
Unemployed	107	111
Males, 20 years and over:		
Civilian labor force	124	107
Employed	135	118
Unemployed	68	71
Females, 20 years and over:		
Civilian labor force	168	129
Employed	167	131
Unemployed	64	67
Both sexes, 16-19 years:		
Civilian labor force	80	85
Employed	84	94
Unemployed	56	69
Black and other, 16 years and over:		
Civilian labor force	78	60
Employed	85	65
Unemployed	54	57
Males, 20 years and over:		
Civilian labor force	44	38
Employed	49	43
Unemployed	33	35
Females, 20 years and over:		
Civilian labor force	62	48
Employed	62	49
Unemployed	34	36
Both sexes, 16-19 years:		
Civilian labor force	33	37
Employed	30	35
Unemployed	29	32

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

Illustration. Assume that the tables showed that the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table C shows that the standard error on an estimate of 12,000,000 is about 150,000. 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 58 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 column one of table D the standard error on a month-to-month change of 400,000 when the monthly level is approximately 12,000,000 is about 111,000.

Standard errors for rates and percentages. The reliability of an estimated unemployment rate or an estimated percentage, computed using sample data for both numerator and denominator, depends on both the size of the rate or percentage and the total upon which the rate or percentage is based. Estimated rates and percentages are relatively more reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages 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 shows generalized standard errors for monthly level and month-to-month change for unemployment rates.

Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentages can be obtained through the use of the standard errors in table G and the factors in table H. First obtain the standard error from table G for the specific percentage and base. The generalized standard error is then calculated by multiplying the standard error from table G by the appropriate factor from table H. When the numerator and denominator of the percentage are in different categories, use the factor indicated by the numerator of the percentage.

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

The approximate standard errors of level, 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 an example, suppose that one is interested in the year-to-year change of a monthly unemployment rate. Let us assume that the tables show that for a certain month the unemployment rate is 6.9 percent based on a total of 95,678,000 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 percent). 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 $0.11 \times 1.40 = 0.15$ percent.

Table B. Standard errors of unemployment rates for major characteristics

Selected categories	Standard error of—		Selected categories	Standard error of—	
	Monthly level	Consecutive month change		Monthly level	Consecutive month change
Total (all civilian workers) . . . . .	.11	.11	OCCUPATION—Continued		
Males, 20 years and over . . . . .	.13	.13	Blue collar workers—Continued		
Females, 20 years and over . . . . .	.17	.18	Operatives, except transport . . . . .	.35	.40
Both sexes, 16-19 years . . . . .	.55	.65	Transport equipment operatives . . . . .	.49	.55
White workers . . . . .	.11	.11	Nonfarm laborers . . . . .	.62	.71
Black (and other) workers . . . . .	.45	.47	Service workers . . . . .	.31	.34
Married men, spouse present . . . . .	.12	.13	Farm workers . . . . .	.55	.62
Married women, spouse present . . . . .	.21	.22			
Full-time workers . . . . .	.11	.12	INDUSTRY		
Part-time workers . . . . .	.32	.40	Nonagricultural private wage and salary workers . . . . .	.12	.13
Unemployed 15 weeks and over . . . . .	.06	.07	Construction . . . . .	.58	.66
OCCUPATION			Manufacturing . . . . .	.22	.24
White-collar workers . . . . .	.12	.13	Durable goods . . . . .	.27	.30
Professional and technical . . . . .	.18	.20	Nondurable goods . . . . .	.36	.40
Managers and administrators, except farm . . . . .	.19	.21	Transportation and public utilities . . . . .	.31	.35
Sales workers . . . . .	.37	.41	Wholesale and retail trade . . . . .	.25	.28
Clerical workers . . . . .	.23	.26	Finance and service industries . . . . .	.17	.19
Blue-collar workers . . . . .	.20	.22	Government workers . . . . .	.21	.23
Craft and kindred workers . . . . .	.27	.30	Agricultural wage and salary workers	1.09	1.24

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

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

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

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

(In thousands)

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

¹ See footnote 1, table C.

² Part-time labor force for unemployment also includes persons

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

Table E. Standard errors of unemployment rates

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

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

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

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

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

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

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

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

Table I. Factors to be used with Tables C, E, G, H to Compute the Approximate Standard Errors of Level, Rates and Percentages for Year-to-Year Change of Monthly Estimates, Quarterly Averages, Change in Quarterly Averages, Yearly Averages and Change in Yearly Averages

Type of 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 Male	1.30	.89	.80	.72	.70
Female or teenage (16-19).....	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
Nonwhite or teenage (16-19)...	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

Establishment data

(B, C, and D tables)

COLLECTION

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

Federal-State cooperation

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

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

Shuttle schedules

Two types of data collection schedules are used: Form BLS 790—Report on Employment, Payroll, and Hours; and Form 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 number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, payroll and hours of production and related workers or nonsupervisory workers for the pay period which includes the 12th of the month. Form DL 1219 provides for the collection of information on the total number of accessions and separations, by type, during the calendar month.

CONCEPTS

Industrial classification

Establishments reporting on Form BLS 790 and Form DL 1219 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. This information is collected each year on a supplement to the monthly 790 or 1219 report. For an establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the industry indicated by the 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.

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 laid off, on leave without pay, or on strike for the entire period or who are hired but have not been paid during the period.

Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in construction, and nonsupervisory employees in the remaining private nonagricultural components. For Federal Government, hours and earnings relate to all employees, both supervisory and nonsupervisory. Terms are defined below. When the pay period reported is longer than 1 week, figures are reduced to a weekly basis.

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

Construction workers include the following employees in the 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 pre-cutting and preassembling) ordinarily performed by members of the construction trades.

Nonsupervisory employees include employees (not above the working supervisory level) such as office and clerical workers, repairers, salespersons, operators, drivers, physicians, lawyers, accountants, nurses, social workers, research aides, teachers, drafters, photographers, beauticians, musicians, restaurant workers, custodial workers, attendants, line installers and repairers, laborers, janitors, guards, and 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 nonsupervisory workers. Included are hours paid for holidays and vacations, and for sick leave when pay is received directly from the firm.

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

Gross average hourly and weekly earnings. Average hourly earnings are on a "gross" basis. 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 does not measure the level of total labor costs on the part of the employer since the following are excluded: Irregular bonuses, retroactive items, payments of various welfare benefits, payroll taxes paid by employers, and earnings for those employees not covered under the production worker, construction worker, or nonsupervisory employee definitions.

Gross average weekly earnings are derived by multiplying average weekly hours by average hourly earnings. Therefore, weekly earnings are affected not only by changes in gross average hourly earnings but also by changes in the length of the workweek. Monthly variations in such factors as proportion of part-time workers, stoppages for varying 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 holiday pay plus straight-time pay for hours worked that day, no overtime hours would be reported.

Since overtime hours are premium hours by definition, gross weekly hours and overtime hours do not necessarily move in the same direction from month-to-month; for example, overtime premiums may be paid for hours in excess of the straight-time workday although less than a full week is worked. Diverse trends at the

industry-group level also may be caused by a marked change in hours for a component industry where little or no overtime was worked in both the previous and current months. In addition, such factors as stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on gross hours.

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

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

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

Since part-time as well as full-time workers are included, and since the proportion of part-time workers has been rising, the series understates the increase in earnings for full-time workers. As noted, "fringe benefits" are not included in the earnings. For a more complete discussion of the uses and limitations of these series, see the article by Paul M. Schwab, "Two Measures of Purchasing Power Contrasted," in the *Monthly Labor Review* for April 1971. Reprints of this article are available upon request from the Bureau of Labor Statistics.

"Real" earnings 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. "Real" earnings for months prior to January 1978 are deflated by the unrevised CPI-W, whereas those for January 1978 forward are deflated by the revised CPI-W. 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. 537-540). Both methods eliminate only the earnings due to overtime paid for at 1½ times the straight-time rates. No adjustment is made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

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

Indexes of diffusion of changes in number of employees on non-agricultural payrolls. These indexes measure the percent of industries which posted increases in employment over the specified time span. The indexes are calculated from 172 unpublished seasonally adjusted employment series (two-digit nonmanufacturing industries and three-digit manufacturing industries) covering all nonagricultural payroll employment in the private sector. A more detailed discussion of these indexes appears in "Introduction of Diffusion Indexes," in the December 1974 issue of *Employment and Earnings*.

Labor turnover

Labor turnover is the gross movement of wage and salary workers into and out of employed status with respect to individual establishments. This movement, which relates to a calendar month, is divided into two broad types: *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 date relate to all employees, whether full- or part-time, permanent or temporary, including executive, office, sales, other salaried personnel, and production workers. Transfers to another establishment of the company are included, beginning with January 1959.

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

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

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

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

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

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

Quits are terminations of employment initiated by employees, failure to report after being hired (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, transfers to another establishment of the company, and entrance into the Armed Forces for a period expected to last more than 30 consecutive calendar days.

Relationship of labor turnover to employment series

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

ESTIMATING METHODS

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

The "link relative" technique

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

Table J. 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 J. 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 aggregate (of each labor turnover action) divided by annual sum of employment.	Annual aggregate (of each labor turnover action) divided by annual sum of employment.

¹ The estimates result from multiplying the product shown by business birth adjustment factors to compensate for the under representation of newly formed enterprises in the sample.

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-

computing industry statistics on employment, hours, earnings, and labor turnover.

Size and regional stratification

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

Benchmark adjustments

Employment estimates are compared periodically with comprehensive counts of employment which provide "benchmarks" for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1977 levels. Normally, benchmark adjustments are made annually.

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

The estimates 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 at levels 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 1977 benchmark adjustment is shown in table K.

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.

Table K. Comparison of nonagricultural employment benchmarks based on 1972 SIC and estimates based on 1967 SIC for 1977

Industry division	Benchmark (1972 SIC) March 1977	Estimate (1967 SIC) March 1977	Percent difference
Total	80,493	80,547	-0.1
Mining	805	827	-2.7
Construction	3,430	3,451	-.6
Manufacturing	19,253	19,183	.4
Transportation and public utilities	4,603	4,522	1.8
Wholesale and retail trade	17,891	17,799	.5
Finance, insurance, and real estate	4,377	4,422	-1.0
Services	14,935	15,028	-.6
Government	15,199	15,315	-.8

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

THE SAMPLE

Design

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

establishment." This design is an optimum allocation design among strata since the sampling variance is proportional to the average size of establishments. Under this type of design, large establishments fall into the sample with certainty. The size of the sample for the various industries is determined empirically on the basis of experience and of cost considerations. In a manufacturing industry in which a high proportion of total employment is concentrated in relatively few establishments, a large percentage of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to 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 fluctuations 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 reports are mailed by respondents, and at a somewhat later date, statistics in considerably greater industrial detail.

Coverage

The BLS sample of establishment employment and payrolls is the largest monthly sampling operation in the field of social statistics. Table L 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 M shows the approximate coverage, in terms of employment, of the labor turnover sample.

Reliability of the employment estimates

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a "link relative" technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling 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 N presents the average percent revisions (based on the 1967 SIC) of the

Table L. Approximate size and coverage of BLS employment and payrolls sample, March 1977¹

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	164,300	32,152,000	40
Mining	2,100	313,000	39
Construction	16,300	686,000	20
Manufacturing	47,100	11,166,000	58
Transportation and public utilities:			
Railroad transportation (ICC)	77	508,000	95
Other transportation and public utilities ..	7,400	2,208,000	53
Wholesale and retail trade	40,600	3,242,000	18
Finance, insurance, and real estate	10,600	1,583,000	36
Services	24,300	2,896,000	19
Government:			
Federal (Civil Service Commission) ²	3,700	2,714,000	100
State and local	12,100	6,836,000	55

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

² National estimates of Federal employment are provided to the BLS by the Civil Service Commission. State and area estimates are based on a sample of 3,700 reports covering about 55 percent of employment in Federal establishments.

Table M. Approximate size and coverage of BLS labor turnover sample, March 1977

Industry	Employees	
	Number reported	Percent of total
Total	10,070,140	49
Manufacturing	9,233,370	48
Mining	136,810	41
Telephone communication	699,960	72

six most recent benchmarks (excluding the March 1973 adjustment) for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors which may be expressed as relative errors of the estimates. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors (based on the 1967 SIC) for major industries are presented in table N and for individual industries with the specified number of employees in table O. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error

from the averages that would have been obtained from a complete census.

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

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

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

Approximations of the root-mean-square errors (based on the experience of the last 6 years and the 1967 SIC) of differences between final estimates and benchmarks are presented in table O.

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 P 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

Table N. Average benchmark percent revision in employment estimates and relative errors for average weekly hours and average hourly earnings by industry division¹

[In percent]

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

¹ Based on 1967 SIC.

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

³ Relative errors relate to March 1971 data.

⁴ Estimates for government are based on a total count for Federal Government and samples for State and local government benchmarked to a quinquennial census of government conducted by the Bureau of the Census.

normally not greater than .1 of an hour for weekly hours and 1 cent for hourly earnings.

Table O. Root-mean-square errors of differences between benchmarks and estimates of employment and average relative errors for average weekly hours and average hourly earnings¹

Size of employment estimate	Root-mean-square error of employment estimates ²	Relative errors ³ (in percent)	
		Average weekly hours	Average hourly earnings
50,000	1,900	0.9	1.5
100,000	2,700	.7	1.1
200,000	4,100	.5	.9
500,000	9,600	.4	.8
1,000,000	13,000	.3	.5
2,000,000	16,800	.3	.5

¹ Based on 1967 SIC.

² Assuming 12-month intervals between benchmark revisions.

³ Relative errors relate to March 1971 data.

Table P. Errors of preliminary employment estimates¹

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

¹ Based on 1967 SIC.

STATISTICS FOR STATES AND AREAS

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

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

PRODUCTIVITY DATA

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

Definition

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

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

Compensation per hour includes wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. The data also include an estimate of wages, salaries, and supplementary payment for the self-employed, except for 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 households and institutions, owner-occupied housing, and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the Gross Domestic Product of nonfinancial corporate business.

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

State and area unemployment data

(E table)

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 Work 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 "Explanatory note A, Household Data," above.

Monthly employment and unemployment estimates in the remaining 40 States and 205 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 residence 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 UI laws; (2) those previously employed in industries not covered by these laws; and (3) those who were either entering the labor force of 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 six 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 labor force included in the LMA's exhaust 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

Many economic statistics reflect a regularly recurring seasonal movement which can be estimated on the basis of past experience. By eliminating that part of the change which can be ascribed to usual seasonal variation, it is possible to observe the cyclical and other nonseasonal movements in the series. However, in evaluating deviations from the seasonal pattern—that is, changes in a seasonally adjusted series—it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, since they are subject not only to sampling and other errors, but in addition, are affected by the uncertainties of the seasonal adjustment process itself. Seasonally adjusted series for selected labor force and establishment data are published regularly in *Employment and Earnings*.

The seasonal adjustment programs used for these series are 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 methods** is given in the two publications, *BLS Seasonal Factor Method (1966)* and *X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

Data for the household series are seasonally adjusted utilizing the Census Bureau's X-11 Method. Each January, seasonal adjustment factors for unemployment and other labor force series are revised to take into account data from the previous year. In January 1976, in addition to the routine annual revisions, the Bureau introduced a modification in the procedure for seasonally

adjusting teenage unemployment and those few other unemployment series (e.g., unemployed new entrants) of which teenagers are the exclusive or major part. In January 1978, modifications were introduced in the procedure for seasonally adjusting teenage nonagricultural employment, a number of other teenage employment series, and adult male unemployment.

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

Revised seasonally adjusted series for major components of the labor force based on data through December 1978, new seasonal factors for the 12 major components of the civilian labor force, and a description of the seasonal adjustment methodology are published in the February 1979 *Employment and Earnings*. Many additional series, which are either components or aggregates of the series presented, are available from the BLS upon request.

For establishment data, seasonally adjusted series for all employees, women employees, production workers, hours, and earnings, are computed using the *BLS Seasonal Factor Method*. Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly

earnings and seasonally adjusted weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted revised Consumer Price Index for Urban Wage Earners and Clerical Workers (revised 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, total private service-producing, trade, manufacturing, and durable and nondurable goods industries, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1967 base.

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

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

The revised seasonally adjusted series for the establishment data reflect experience through May 1978. Seasonal factors to be used for current adjustment appear in the October 1978 issue of *Employment and Earnings*.

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

U.S. Department of Labor

Bureau of Labor Statistics

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

BLS Region	
IV ALABAMA	-Department of Industrial Relations, Industrial Relations Building, Montgomery 36130
X ALASKA	-Employment Security Division, Department of Labor, P.O. Box 3-7000, Juneau 99802
IX ARIZONA	-Department of Economic Security, P.O. Box 6123, Phoenix 85005
VI ARKANSAS	-Employment Security Division, Department of Labor, P.O. Box 2981, Little Rock 72203
IX CALIFORNIA	-Employment Development Department, P.O. Box 1679, Sacramento 95808 (LAUS and CES).
VIII COLORADO	-Management Services, Department of Labor and Employment, 1210 Sherman Street, Denver 80203
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