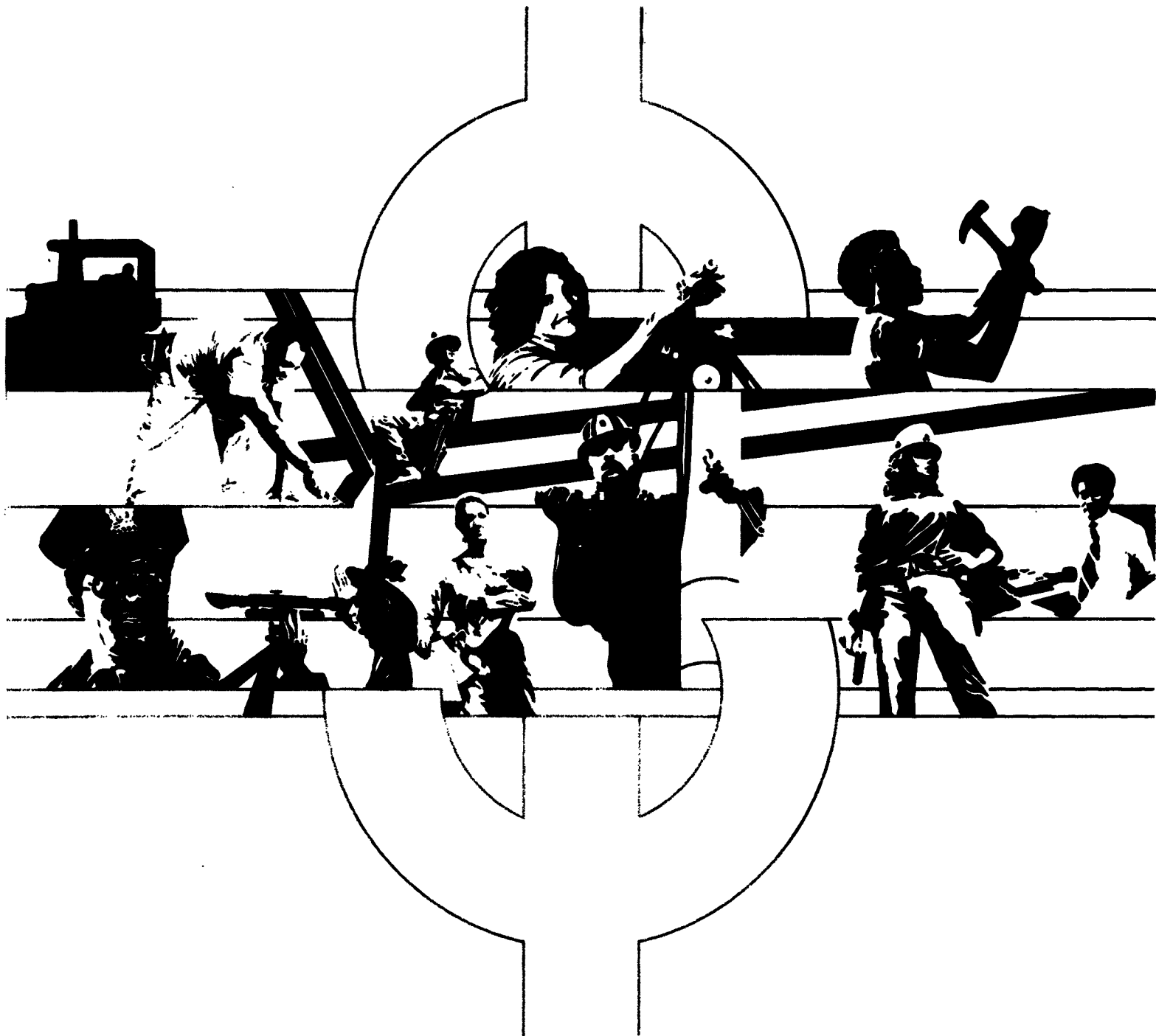


Employment and Earnings

November 1981



U.S. Department of Labor
Bureau of Labor Statistics





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

BUREAU OF LABOR STATISTICS
Janet L. Norwood, Commissioner

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Calendar of Features

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

Household data

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

Establishment data

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

State and area unemployment data

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

² Month of publication of annual supplement varies. The latest supplement was published in August 1981.

³ Issue varies. Latest revised data introduced July 1981.

⁴ These data first introduced in the May 1981 issue.

Employment and Earnings

Vol. 28 No. 11 November 1981

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

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Employment and Unemployment Developments, October 1981

Unemployment rose sharply in October, and nonfarm payroll employment declined. October's unemployment rate was 8.0 percent, up from 7.5 percent in September and the 1981 low of 7.0 percent in July.

Nonfarm payroll employment—as measured by the monthly survey of establishments—fell by 200,000 in October to 91.7 million. Total employment—derived from the monthly survey of households—was about unchanged at 98.2 million, after declining markedly in September.

Unemployment

The Nation's unemployment rate rose 0.5 percentage point to 8.0 percent in October, higher than the rates of 7.6 percent recorded during the 1980 recession. The number of unemployed persons increased by 550,000 in October to 8.5 million. Though this increase was widespread, it was particularly sharp among adult men, whose jobless rate rose from 6.2 to 6.7 percent. (See table A-33.)

Unemployment rates rose markedly in October for teenagers (20.6 percent), whites (6.9 percent), and full-time workers (7.7 percent). There were small over-the-month increases for adult women (7.0 percent) and black and other workers (15.5 percent), though both groups have had substantial increases since the summer. For the second straight month, a sizeable rise in unemployment took place among blue-collar workers, whose October rate of 11.0 percent was at its highest point this year but still slightly below 1980 highs. In a related development, there were marked over-the-month increases in joblessness for workers in the construction and manufacturing industries. (See table A-36.)

The over-the-month rise in the number of unemployed resulted from increases in both the number of persons on layoff and those returning to the labor force after a period of absence (reentrants to the labor force). Because of the substantial increase in the number of newly unemployed workers (less than 5 weeks), the median duration of unemployment declined from 7.0 to 6.7 weeks in October. (See tables A-39 and A-37.)

The number of nonfarm workers on part-time schedules for economic reasons (sometimes termed the "partially unemployed") rose by nearly half a million to

a record 5.0 million in October. Over the past 2 months, their total has risen by 840,000, with substantial increases posted among both those whose full-time workweek was reduced and persons working part time because they couldn't find full-time jobs. (See table A-42.)

Total employment and the labor force

Following a drop of nearly 700,000 in September, total employment was unchanged in October at 98.2 million, as a decline among adult men and teenagers was offset by an increase among adult women. Virtually all of the August-September employment decline took place among women. The overall employment-population ratio was 58.0 percent in October, its lowest level in almost 4 years. (See table A-33.)

The civilian labor force rose by 500,000 to 106.7 million in October, with the entire increase taking place among adult women. Their participation rate, which had declined substantially the month before, moved back up to 52.3 percent.

The labor force rose by 1.5 million over the past year, a somewhat slower pace than in recent times. Increases occurred among adult women (1.4 million) and adult men (600,000), while the number of teenage workers decreased by nearly 500,000. The teenage reduction stemmed from both a declining population and reduced participation. In line with recent trends, the participation rate of adult women was up by almost a full percentage point over the year, while that of adult men declined.

Industry payroll employment

Total nonagricultural payroll employment declined by 200,000 over the month to 91.7 million in October. Following 2 months of little change in the number of payroll jobs, the October drop was the first decrease since July 1980. Employment declines were pervasive, as gains were registered in only one-third of the 172 industries comprising the BLS diffusion index of private nonfarm employment. (See tables B-4 and B-7.)

The largest employment drop in October was in manufacturing, which declined by 275,000. Like total payroll employment, factory employment had held fairly steady during the prior 2-month period. Two-thirds

of the over-the-month decrease took place in the durable goods industries, especially in transportation equipment, primary and fabricated metals, electrical equipment, and lumber and wood products. The sharp cutback in transportation equipment jobs—85,000—actually represented a cumulation of job losses since June. A seasonally-adjusted estimate of these losses could not be made in the intervening months because of the traditional changeover to the automobile industry's new model year. Among the nondurable goods industries, large employment declines occurred over the month in food processing, textiles, apparel, and rubber and plastic products.

Elsewhere in the goods-producing sector, construction jobs dropped by 20,000, but the decline would have been larger were it not for the settlement of a strike. Mining employment was virtually unchanged, after posting substantial gains during the summer months.

The service-producing sector as a whole registered an advance of 90,000, although sizeable gains took place only in the services industry and retail trade. The services industry has posted monthly increases continually for 6 years.

Over the past 12 months, the number of nonfarm payroll jobs increased by 1.1 million. Nearly 1 million of this increase occurred in the service-producing sector.

Hours of work

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls, at 34.9 hours in October, failed to return to the August level following a decline of 0.3 hour in September that was due, at least in part, to the occurrence of the Labor Day holiday in the survey's reference week. The manufacturing workweek edged up by 0.1 hour in October to 39.4 hours, following a 0.7-hour decline in September. Over the 2-month period, hours declined in

every manufacturing industry. Factory overtime, at 2.7 hours in October, increased by 0.1 hour over the month but was down 0.3 hour over the 2-month period. (See table C-6.)

Reflecting the October reduction in employment, the index of aggregate weekly hours of production or non-supervisory workers on private nonfarm payrolls—a comprehensive measure of employment and hours effects—dropped by 0.3 percent in October to 108.3 (1977 = 100). The decline in the index has been continuous since July, totaling 1.0 percent over the 3-month period. The manufacturing index fell by 3.7 percent over the same time span. (See table C-7.)

Hourly and weekly earnings

Because weekly hours were unchanged in October, both average hourly and weekly earnings posted the same over-the-month change—an increase of 0.3 percent, seasonally adjusted. Before adjustment for seasonality, average hourly earnings moved up 2 cents in October to \$7.41, 56 cents above the year-earlier level. Average weekly earnings, at \$259.35 in October, were up 70 cents over the month and \$17.54 over the year. (See tables C-1 and C-8.)

The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 141.6 (1977 = 100) after seasonal adjustment in October, an increase of 0.2 percent over the previous month. For the 12 months ended in October, the increase (before seasonal adjustment) was 8.4 percent. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements—fluctuations in overtime in manufacturing and interindustry employment shifts. In dollars of constant purchasing power, the HEI decreased 1.4 percent during the 12-month period ended in September. (See table C-8.)

Revisions to household data series

Effective with data for January 1982, population counts derived from the 1980 Decennial Census will be introduced into the estimation procedures used in the Current Population Survey. Data for 1980 and 1981 will be revised based on the new census population estimates. Provisional adjustments in the major data series for 1979 back to 1970 will also be made and will be introduced with the release of January 1982 data.

Spendable Earnings Formulas, 1979-81

*Mary Lee Seifert

The spendable earnings series published by the Bureau of Labor Statistics is affected by the reduction in income tax specified in the Economic Recovery Act of 1981 (PL 97-34). The tax change, effective October 1, 1981, calls for a 1.25-percent reduction in income tax owed for 1981, or a 5-percent reduction for the period October through December 1981.

The formulas for calculating spendable earnings for 1979-81 are presented in table 1.¹ The formulas have been revised for October-December 1981 to take into account the recent tax law changes.

Table 2 shows the differences in spendable earnings between the first 9 months and the last 3 months of 1981 at different gross weekly earning levels.

Using gross average weekly earnings estimates for August 1981 (preliminary), table 3 shows, for a married worker with three dependents, spendable earnings computed by the original and revised formulas for 1981 for each major division as well as for the total private non-farm sector.

* Mary Lee Seifert is an economist in the Division of Monthly Industry Employment Statistics, Office of Employment Structure and Trends, Bureau of Labor Statistics.

¹ Formulas for prior periods were published in the March 1978 issue of *Employment and Earnings*; they are available upon request from the Bureau of Labor Statistics.

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

Period	Worker with no dependents ¹		Married worker with 3 dependents ¹	
	Gross average weekly earnings	Formulas (X = gross average weekly earnings)	Gross average weekly earnings	Formula (X = gross average weekly earnings)
January-June 1979	0.00- 63.46 63.47- 84.61 84.62-103.84 103.85-144.23 144.24-182.69 182.70-226.92 226.93-267.30 267.31-307.69 307.70-369.23 369.24-440.38 440.39-471.15 471.16-573.07	.9387X .7987X + 8.88 .7787X + 10.58 .7587X + 12.65 .7487X + 14.09 .7287X + 17.75 .6987X + 24.56 .6787X + 29.90 .6387X + 42.21 .5967X + 56.98 .66 X + 29.98 .61 X + 53.54	0.00-165.89† 165.90-182.69† 182.70-192.30† 192.31-223.07 223.08-305.76 305.77-384.61 384.62-440.38 440.39-465.38 465.39-550.00 550.01-651.92 651.93-753.84	.9387X .6737X + 43.96 .6537X + 47.62 .7787X + 23.58 .7587X + 28.03 .7287X + 37.21 .6987X + 48.75 .78 X + 21.75 .72 X + 40.37 .68 X + 62.37 .63 X + 94.96
July-December 1979 ²	0.00- 63.46 63.47- 84.61 84.62-103.84 103.85-144.23 144.24-182.69 182.70-226.92 226.93-267.30 267.31-307.69 307.70-369.23 369.24-440.38 440.39-471.15 471.16-573.07	.9387X .7987X + 8.88 .7787X + 10.58 .7587X + 12.65 .7487X + 14.09 .7287X + 17.75 .6987X + 24.56 .6787X + 29.90 .6387X + 42.21 .5987X + 56.98 .66 X + 29.98 .61 X + 53.54	0.00- 96.15† 96.16-115.38† 115.39-142.30† 142.31-182.69† 182.70-192.30† 192.31-223.07 223.08-305.76 305.77-384.61 384.62-440.38 440.39-465.38 465.39-550.00 550.01-651.92 651.93-753.84	1.0387X .9387X + 9.82 .8137X + 24.04 .6737X + 43.96 .6537X + 47.62 .7787X + 23.58 .7587X + 28.03 .7287X + 37.21 .6987X + 48.75 .76 X + 21.75 .72 X + 40.37 .68 X + 62.37 .63 X + 94.96
1979 Annual Average ³	0.00- 63.46 63.47- 84.61 84.62-103.84 103.85-144.23 144.24-182.69 182.70-226.92 226.93-267.30 267.31-307.69 307.70-369.23 369.24-440.38 440.39-471.15 471.16-573.07	.9387X .7987X + 8.88 .7787X + 10.58 .7587X + 12.85 .7487X + 14.09 .7287X + 17.75 .6987X + 24.56 .6787X + 29.90 .6387X + 42.21 .5987X + 56.98 .66 X + 29.98 .61 X + 53.54	0.00- 96.15† 96.16-115.38† 115.39-142.30† 142.31-165.89† 165.90-182.69† 182.70-192.30† 192.31-223.07 223.08-305.76 305.77-384.61 384.62-440.38 440.39-465.38 465.39-550.00 550.01-651.92 651.93-753.84	.9887X .9387X + 4.81 .8762X + 12.02 .8062X + 21.98 .6737X + 43.96 .6537X + 47.62 .7787X + 23.58 .7587X + 28.03 .7287X + 37.21 .6987X + 48.75 .76 X + 21.75 .72 X + 40.37 .68 X + 62.37 .63 X + 94.96
January-December 1980	0.00- 63.46 63.47- 84.61 84.62-103.84 103.85-144.23 144.24-182.69 182.70-226.92 226.93-267.30 267.31-307.69 307.70-369.23 369.24-471.15 471.16-498.07 498.08-573.07 573.08-675.00 675.01-817.30	.9387X .7987X + 8.88 .7787X + 10.58 .7587X + 12.65 .7487X + 14.09 .7287X + 17.75 .6987X + 24.56 .6787X + 29.90 .6387X + 42.21 .5987X + 56.98 .5487X + 80.54 .61 X + 50.01 .56 X + 78.66 .49 X + 112.41	0.00- 96.15† 96.16-115.38† 115.39-142.30† 142.31-182.69† 182.70-192.30† 192.31-223.07 223.08-305.76 305.77-384.61 384.62-465.38 465.39-498.07 498.08-550.00 550.01-651.92 651.93-753.84 753.85-957.69	1.0387X .9387X + 9.62 .8137X + 24.04 .6737X + 43.96 .6537X + 47.62 .7787X + 23.58 .7587X + 28.03 .7287X + 37.21 .6987X + 48.75 .6587X + 67.37 .72 X + 36.84 .68 X + 58.84 .63 X + 91.43 .57 X + 136.66
January-September 1981	0.00- 63.46 63.47- 84.61 84.62-103.84 103.85-144.23 144.24-182.69 182.70-226.92 226.93-267.30 267.31-307.69 307.70-369.23 369.24-471.15 471.16-571.15 571.16-573.07 573.08-675.00 675.01-817.30	.9335X .7935X + 8.88 .7735X + 10.58 .7535X + 12.65 .7435X + 14.09 .7235X + 17.75 .6935X + 24.56 .6735X + 29.90 .6335X + 42.21 .5935X + 56.98 .5435X + 80.54 .61 X + 42.56 .56 X + 71.21 .51 X + 104.96	0.00- 96.15† 96.16-115.38† 115.39-142.30† 142.31-182.69† 182.70-192.30† 192.31-223.07 223.08-305.76 305.77-384.61 384.62-465.38 465.39-550.00 550.01-571.15 571.16-651.92 651.93-753.84 753.85-957.69	1.0335X .9335X + 9.62 .8085X + 24.04 .6685X + 43.96 .6485X + 47.62 .7735X + 23.58 .7535X + 28.03 .7235X + 37.21 .6935X + 48.75 .6535X + 67.37 .6135X + 89.37 .68 X + 51.39 .63 X + 83.98 .57 X + 129.21

See footnotes at end of table.

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

Period	Worker with no dependents ¹		Married worker with 3 dependents ¹	
	Gross average weekly earnings	Formulas (X = gross average weekly earnings)	Gross average weekly earnings	Formula (X = gross average weekly earnings)
October-December 1981	0.00- 63.46 63.47- 84.61 84.62-103.84 103.85-144.23 144.24-182.69 182.70-226.92 226.93-267.30 267.31-307.69 307.70-369.23 369.24-471.15 471.16-571.15 571.16-573.07 573.08-675.00 675.01-817.30	.9335X .8005X + 8.44 .7815X + 10.05 .7625X + 12.02 .7530X + 13.39 .7340X + 16.87 .7055X + 23.33 .6865X + 28.41 .6485X + 40.10 .6105X + 54.13 .5630X + 76.15 .6295X + 38.33 .5820X + 65.76 .5345X + 97.81	0.00- 96.15† 96.16-115.38† 115.39-142.30† 142.31-182.69† 182.70-192.30† 192.31-223.07 223.08-305.76 305.77-384.61 384.62-465.38 465.39-550.00 550.01-571.15 571.16-651.92 651.93-753.84 753.85-957.69	1.0335X .9335X + 9.62 .8085X + 24.04 .6755X + 42.97 .6565X + 46.44 .7815X + 22.40 .7625X + 26.64 .7340X + 35.35 .7055X + 46.31 .6675X + 63.99 .6295X + 84.90 .6960X + 46.92 .6485X + 77.88 .5915X + 120.86
Annual Averages 1981 ²	0.00- 63.46 63.47- 84.61 84.62-103.84 103.85-144.23 144.24-182.69 182.70-226.92 226.93-267.30 267.31-307.69 307.70-369.23 369.24-471.15 471.16-571.15 571.16-573.07 573.08-675.00 675.01-817.30	.9335X .7953X + 8.77 .7755X + 10.45 .7558X + 12.50 .7459X + 13.92 .7261X + 17.53 .6965X + 24.25 .6768X + 29.53 .6373X + 41.88 .5978X + 56.27 .5484X + 79.53 .6149X + 41.55 .5655X + 69.85 .5161X + 103.18	0.00- 96.15† 96.16-115.38† 115.39-142.30† 142.31-182.69† 182.70-192.30† 192.31-223.07 223.08-305.76 305.77-384.61 384.62-465.38 465.39-550.00 550.01-571.15 571.16-651.92 651.93-753.84 753.85-957.69	1.0335X .9335X + 9.62 .8085X + 24.04 .6703X + 43.71 .6505X + 47.33 .7755X + 23.29 .7558X + 27.69 .7261X + 36.75 .6965X + 48.14 .6570X + 67.52 .6175X + 88.25 .6840X + 50.27 .6346X + 82.46 .5754X + 127.12

¹ For workers who earned the average weekly earnings.

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

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

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

Table 2. Changes in spendable earnings at different gross earnings levels, 1981

Category of workers	Gross average weekly earnings	Spendable earnings		
		Jan.-Sept.	Oct.-Dec.	Change
Married worker with 3 dependents	\$ 96.15	\$ 99.37	\$ 99.37	\$ 0.00
	115.38	117.33	117.33	.00
	142.30	139.09	139.09	.00
	182.69	166.09	166.38	.29
	192.30	172.33	172.68	.35
	223.07	196.12	196.73	.61
	305.76	258.42	259.78	1.36
	384.61	315.48	317.65	2.17
	465.38	371.49	374.64	3.15
	500.00	394.12	397.74	3.62
	550.00	426.80	431.12	4.32
571.15	439.77	444.44	4.67	
Single worker	63.46	59.24	59.24	0.00
	84.61	76.02	76.17	.15
	103.84	90.90	91.20	.30
	144.23	121.33	122.00	.67
	182.69	149.92	150.96	1.04
	226.92	181.93	183.43	1.50
	267.30	209.93	211.91	1.98
	307.69	237.13	239.64	2.51
	369.23	276.12	279.55	3.43
	471.15	336.61	341.77	5.16
	500.00	352.29	358.01	5.72
571.15	390.96	398.07	7.11	

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

Industry division	Gross average weekly earnings August 1981p	Spendable earnings		
		Under Jan.-Sept. 1981 formula	Under Oct.-Dec. 1981 formula	Difference
Total private nonfarm sector	\$259.98	\$223.85	\$224.80	\$0.95
Mining	446.60	358.47	361.39	2.92
Construction	406.54	330.69	333.12	2.43
Manufacturing	319.20	268.15	269.64	1.49
Transportation and public utilities	392.43	320.90	323.17	2.27
Trade	193.91	173.57	173.94	.37
Finance, insurance, and real estate	231.87	202.74	203.44	.70
Services	210.89	186.70	187.21	.51

p = preliminary.

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										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953 ¹	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	110,671	66,993	60.0	63,643	60,109	6,205	53,304	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960 ¹	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962.....	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	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	3,636	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 ¹	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 ¹	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978 ¹	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
1979.....	163,620	104,996	64.2	102,908	96,945	3,297	93,648	5,963	5.8	58,623
1980.....	166,246	106,821	64.3	104,719	97,270	3,310	93,950	7,448	7.1	59,425
Monthly data, seasonally adjusted ²										
1980:										
October..	167,005	107,288	64.2	105,167	97,206	3,319	93,887	7,961	7.6	59,717
November..	167,201	107,404	64.2	105,285	97,339	3,340	93,999	7,946	7.5	59,797
December..	167,396	107,191	64.0	105,067	97,282	3,394	93,868	7,785	7.4	60,205
1981:										
January..	167,585	107,668	64.2	105,543	97,696	3,403	94,294	7,847	7.4	59,917
February..	167,747	107,802	64.3	105,681	97,927	3,281	94,646	7,754	7.3	59,946
March....	167,902	108,305	64.5	106,177	98,412	3,276	95,136	7,764	7.3	59,598
April....	168,071	108,851	64.8	106,722	98,976	3,463	95,513	7,746	7.3	59,219
May.....	168,272	109,533	65.1	107,406	99,235	3,353	95,882	8,171	7.6	58,739
June.....	168,480	108,307	64.3	106,176	98,392	3,265	95,127	7,784	7.3	60,173
July.....	168,685	108,603	64.4	106,464	98,962	3,258	95,704	7,502	7.0	60,082
August...	168,855	108,762	64.4	106,602	98,944	3,370	95,574	7,657	7.2	60,093
September	169,049	108,401	64.1	106,236	98,270	3,310	94,959	7,966	7.5	60,648
October..	169,252	108,894	64.3	106,736	98,217	3,337	94,880	8,520	8.0	60,359

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

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

HOUSEHOLD DATA HISTORICAL

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

(Numbers in thousands)

Sex, year, and month	Total noninsti- tutional popula- tion	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of popula- tion	Total	Employed			Unemployed		
					Total	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
MALES										
Annual averages										
1972 ¹	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 ¹	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978 ¹	77,159	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
1979	78,397	61,466	78.4	59,517	56,499	2,645	53,854	3,018	5.1	16,931
1980	79,642	62,088	78.0	60,145	55,988	2,664	53,324	4,157	6.9	17,554
Monthly data, seasonally adjusted ²										
1980:										
October..	80,300	62,335	77.9	60,379	55,881	2,668	53,213	4,498	7.4	17,665
November	80,091	62,342	77.8	60,388	55,897	2,691	53,206	4,491	7.4	17,749
December	80,183	62,213	77.6	60,254	55,920	2,651	53,269	4,334	7.2	17,970
1981:										
January..	80,272	62,320	77.6	60,366	56,012	2,712	53,300	4,353	7.2	17,952
February	80,346	62,288	77.5	60,338	56,045	2,586	53,459	4,293	7.1	18,058
March....	80,415	62,582	77.8	60,628	56,383	2,599	53,784	4,245	7.0	17,833
April....	80,492	62,848	78.1	60,893	56,688	2,785	53,903	4,205	6.9	17,644
May.....	80,588	63,198	78.4	61,245	56,718	2,692	54,026	4,527	7.4	17,390
June.....	80,687	62,288	77.2	60,335	56,026	2,646	53,380	4,309	7.1	18,399
July.....	80,783	62,433	77.3	60,473	56,494	2,631	53,864	3,979	6.6	18,350
August...	80,863	62,564	77.4	60,584	56,368	2,716	53,652	4,216	7.0	18,300
September	80,955	62,682	77.4	60,699	56,349	2,644	53,705	4,349	7.2	18,273
October..	81,051	62,710	77.4	60,734	56,046	2,684	53,362	4,688	7.7	18,341
FEMALES										
Annual averages										
1972 ¹	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 ¹	77,242	34,561	44.7	34,510	32,446	619	31,827	2,064	6.0	42,681
1974	78,575	35,892	45.7	35,825	33,417	592	32,825	2,408	6.7	42,683
1975	79,954	37,087	46.4	36,998	33,553	579	32,973	3,445	9.3	42,868
1976	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	8.6	42,789
1977	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
1978 ¹	83,890	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,887
1979	85,223	43,531	51.1	43,391	40,446	652	39,794	2,945	6.8	41,692
1980	86,604	44,733	51.7	44,574	41,283	646	40,637	3,291	7.4	41,871
Monthly data, seasonally adjusted ²										
1980:										
October..	87,306	44,953	51.7	44,788	41,325	651	40,674	3,463	7.7	42,053
November	87,110	45,062	51.7	44,897	41,442	649	40,793	3,455	7.7	42,048
December	87,213	44,978	51.6	44,813	41,362	743	40,619	3,451	7.7	42,235
1981:										
January..	87,313	45,349	51.9	45,178	41,684	691	40,993	3,493	7.7	41,964
February	87,402	45,513	52.1	45,343	41,882	695	41,187	3,461	7.6	41,888
March....	87,487	45,723	52.3	45,549	42,029	677	41,352	3,519	7.7	41,764
April....	87,578	46,003	52.5	45,829	42,288	678	41,610	3,541	7.7	41,575
May.....	87,684	46,335	52.8	46,161	42,517	661	41,856	3,644	7.9	41,349
June.....	87,793	46,020	52.4	45,842	42,366	619	41,747	3,475	7.6	41,774
July.....	87,901	46,170	52.5	45,991	42,467	627	41,840	3,524	7.7	41,732
August...	87,991	46,198	52.5	46,018	42,577	654	41,922	3,441	7.5	41,793
September	88,094	45,719	51.9	45,537	41,920	666	41,254	3,617	7.9	42,375
October..	88,201	46,183	52.4	46,002	42,171	653	41,518	3,831	8.3	42,018

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

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

HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	October 1981										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
MALES											
16 years and over	62,420	77.0	60,443	56,269	4,174	6.9	18,632	314	4,641	1,684	11,993
18 to 21 years	8,167	65.6	7,522	6,227	1,295	17.2	4,287	14	3,782	23	468
16 to 19 years	4,647	57.1	4,378	3,536	842	19.2	3,489	11	3,134	14	330
16 to 17 years	1,779	45.0	1,760	1,411	349	19.8	2,173	4	2,020	9	139
18 to 19 years	2,868	68.5	2,618	2,125	493	18.8	1,316	7	1,114	5	191
20 to 64 years	55,864	88.9	54,157	50,888	3,270	6.0	6,960	155	1,505	1,210	4,090
20 to 24 years	8,941	85.3	8,181	7,142	1,039	12.7	1,538	8	1,122	45	362
25 to 54 years	39,901	94.3	38,954	36,944	2,011	5.2	2,398	90	377	644	1,287
25 to 29 years	9,029	94.5	8,656	7,969	687	7.9	529	19	224	58	228
30 to 34 years	8,559	96.0	8,293	7,857	436	5.3	355	17	94	70	174
35 to 39 years	6,836	96.2	6,653	6,340	313	4.7	268	23	19	89	137
40 to 44 years	5,542	94.7	5,455	5,256	199	3.6	309	12	22	125	150
45 to 49 years	4,988	93.6	4,959	4,747	212	4.3	341	11	16	106	209
50 to 54 years	4,947	89.3	4,939	4,775	164	3.3	595	8	3	195	389
55 to 64 years	7,023	69.9	7,022	6,802	219	3.1	3,023	56	6	521	2,441
55 to 59 years	4,341	80.9	4,340	4,199	141	3.2	1,023	36	3	238	746
60 to 64 years	2,682	57.3	2,682	2,603	79	2.9	2,000	20	3	283	1,695
65 years and over	1,908	18.9	1,908	1,845	62	3.3	8,183	148	2	460	7,573
65 to 69 years	1,113	28.8	1,113	1,070	43	3.9	2,752	28	1	148	2,576
70 years and over	795	12.8	795	776	19	2.4	5,431	120	1	313	4,997
White											
16 years and over	55,344	77.9	53,821	50,594	3,226	6.0	15,722	224	3,641	1,337	10,521
16 to 21 years	7,179	68.4	6,687	5,685	1,003	15.0	3,322	5	2,977	16	323
16 to 19 years	4,163	61.0	3,952	3,283	669	16.9	2,667	5	2,418	8	235
16 to 17 years	1,644	49.9	1,628	1,330	298	18.3	1,652	3	1,539	6	104
18 to 19 years	2,519	71.3	2,324	1,953	372	16.0	1,015	2	879	2	131
20 to 64 years	49,445	89.6	48,134	45,619	2,515	5.2	5,718	114	1,222	950	3,431
20 to 24 years	7,724	86.2	7,163	6,369	794	11.1	1,234	2	956	35	240
25 to 54 years	35,326	95.1	34,577	33,036	1,542	4.5	1,833	67	263	434	1,018
25 to 29 years	15,467	96.0	14,976	14,125	850	5.7	636	28	223	77	308
30 to 34 years	10,996	96.0	10,770	10,373	398	3.7	459	22	26	172	240
35 to 44 years	8,863	92.3	8,832	8,538	294	3.3	738	17	15	235	470
55 to 64 years	6,395	70.7	6,394	6,214	180	2.8	2,651	46	2	431	2,173
55 to 59 years	3,937	81.7	3,936	3,825	110	2.8	883	27	2	204	650
60 to 64 years	2,458	58.2	2,458	2,389	70	2.8	1,768	18	--	227	1,523
65 years and over	1,735	19.1	1,735	1,693	42	2.4	7,337	104	1	379	6,854
Black and other											
16 years and over	7,076	70.9	6,623	5,675	948	14.3	2,910	90	1,000	347	1,472
16 to 21 years	988	50.6	835	542	293	35.0	966	9	805	7	145
16 to 19 years	484	37.1	426	253	173	40.5	822	6	716	6	94
16 to 17 years	135	20.6	132	81	51	38.5	521	1	481	3	35
18 to 19 years	349	53.7	293	172	122	41.4	301	5	235	3	59
20 to 64 years	6,419	83.8	6,024	5,269	754	12.5	1,241	39	283	259	659
20 to 24 years	1,217	80.0	1,019	773	245	24.1	304	6	166	10	122
25 to 54 years	4,574	89.0	4,377	3,907	469	10.7	565	23	114	159	269
25 to 29 years	2,120	89.5	1,973	1,700	273	13.8	248	7	95	51	94
30 to 34 years	1,382	92.1	1,337	1,223	114	8.5	119	13	15	43	47
35 to 44 years	1,071	84.4	1,067	985	82	7.7	199	2	4	65	128
55 to 64 years	628	62.8	628	588	40	6.3	372	11	4	90	268
55 to 59 years	404	74.3	404	374	31	7.6	140	9	1	34	96
60 to 64 years	224	49.0	224	214	9	4.1	232	2	3	56	172
65 years and over	173	17.0	173	153	21	11.9	846	45	1	82	719

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

(Numbers in thousands)

Sex, age, and race	October 1981										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
FEMALES											
16 years and over	46,664	52.9	46,482	42,633	3,850	8.3	41,537	30,441	4,693	963	5,440
16 to 21 years	6,916	56.8	6,847	5,629	1,218	17.8	5,270	1,037	3,887	10	335
16 to 19 years	3,995	50.2	3,968	3,135	832	21.0	3,958	501	3,243	4	210
16 to 17 years	1,485	38.8	1,483	1,169	314	21.2	2,343	110	2,150	--	83
18 to 19 years	2,510	60.9	2,484	1,966	518	20.9	1,614	391	1,093	4	127
20 to 64 years	41,491	63.1	41,337	38,371	2,966	7.2	24,308	20,095	1,443	442	2,327
20 to 24 years	7,429	71.0	7,341	6,515	825	11.2	3,035	1,771	945	16	303
25 to 54 years	29,349	66.5	29,284	27,321	1,963	6.7	14,761	13,012	482	218	1,048
25 to 29 years	6,707	68.8	6,662	6,114	549	8.2	3,041	2,588	216	27	210
30 to 34 years	6,218	67.9	6,203	5,690	513	8.3	2,938	2,598	110	23	207
35 to 39 years	5,026	67.5	5,022	4,709	312	6.2	2,425	2,132	83	23	187
40 to 44 years	4,285	69.0	4,284	4,041	243	5.7	1,923	1,728	27	29	139
45 to 49 years	3,643	64.6	3,642	3,450	192	5.3	1,998	1,786	25	55	132
50 to 54 years	3,471	58.8	3,471	3,316	155	4.5	2,436	2,181	21	61	173
55 to 64 years	4,713	42.0	4,713	4,536	177	3.8	6,511	5,311	16	208	976
55 to 59 years	3,001	50.8	3,001	2,877	124	4.1	2,906	2,403	11	96	397
60 to 64 years	1,712	32.2	1,712	1,659	53	3.1	3,605	2,909	5	113	579
65 years and over	1,178	8.1	1,178	1,126	52	4.4	13,272	9,846	7	517	2,903
65 to 69 years	706	14.7	706	672	34	4.8	4,103	3,285	1	106	710
70 years and over	472	4.9	472	453	18	3.9	9,169	6,561	6	411	2,192
White											
16 years and over	40,266	52.7	40,136	37,299	2,836	7.1	36,192	27,113	3,681	746	4,652
16 to 21 years	6,074	59.6	6,025	5,154	872	14.5	4,118	840	3,067	3	208
16 to 19 years	3,528	53.2	3,509	2,902	607	17.3	3,104	409	2,562	--	133
16 to 17 years	1,351	42.6	1,350	1,100	250	18.5	1,824	94	1,678	--	53
18 to 19 years	2,177	63.0	2,158	1,802	357	16.5	1,280	315	884	--	80
20 to 64 years	35,688	62.9	35,577	33,387	2,190	6.2	21,070	17,708	1,112	332	1,919
20 to 24 years	6,382	72.5	6,320	5,768	552	8.7	2,423	1,484	728	9	202
25 to 54 years	25,149	66.3	25,101	23,620	1,481	5.9	12,772	11,376	370	172	854
25 to 29 years	10,955	68.1	10,912	10,127	785	7.2	5,128	4,499	253	40	336
35 to 44 years	8,019	68.0	8,015	7,592	423	5.3	3,767	3,373	83	45	266
45 to 54 years	6,175	61.4	6,174	5,901	273	4.4	3,877	3,504	34	88	252
55 to 64 years	4,156	41.4	4,156	3,999	157	3.8	5,876	4,848	14	150	864
55 to 59 years	2,668	50.7	2,668	2,555	113	4.2	2,596	2,167	9	64	356
60 to 64 years	1,489	31.2	1,489	1,444	45	3.0	3,280	2,681	5	86	508
65 years and over	1,050	8.0	1,050	1,011	39	3.7	12,018	8,996	7	414	2,600
Black and other											
16 years and over	6,397	54.5	6,347	5,333	1,014	16.0	5,345	3,328	1,012	217	788
16 to 21 years	842	42.2	822	476	347	42.2	1,152	197	820	7	128
16 to 19 years	467	35.3	459	234	225	49.1	854	92	681	4	77
16 to 17 years	133	20.4	133	69	64	48.1	519	16	472	1	30
18 to 19 years	333	49.9	326	165	161	49.5	335	76	208	4	47
20 to 64 years	5,802	64.2	5,760	4,985	775	13.5	3,237	2,387	331	111	408
20 to 24 years	1,046	63.1	1,021	748	274	26.8	613	287	217	7	102
25 to 54 years	4,200	67.9	4,183	3,700	482	11.5	1,989	1,637	112	45	195
25 to 29 years	1,969	69.8	1,953	1,677	277	14.2	851	687	73	10	82
35 to 44 years	1,292	69.0	1,291	1,159	132	10.2	581	487	26	8	60
45 to 54 years	939	62.8	939	865	74	7.9	557	463	13	28	54
55 to 64 years	556	46.7	556	537	20	3.5	635	463	2	58	112
55 to 59 years	333	51.8	333	322	11	3.3	310	235	2	32	41
60 to 64 years	223	40.7	223	215	9	3.8	325	228	--	26	71
65 years and over	128	9.2	128	115	13	10.1	1,254	849	--	102	303

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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	
	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
MALES								
16 years and over	62,091	62,420	77.6	77.0	60,135	60,443	77.1	76.4
16 to 19 years	4,936	4,647	59.2	57.1	4,655	4,378	57.8	55.6
16 to 17 years	1,934	1,779	47.3	45.0	1,912	1,760	47.0	44.8
18 to 19 years	3,002	2,868	70.6	68.5	2,743	2,618	68.7	66.5
20 to 24 years	8,928	8,941	85.8	85.3	8,186	8,181	84.7	84.2
25 to 54 years	39,152	39,901	94.5	94.3	38,220	38,954	94.4	94.2
25 to 34 years	17,138	17,588	95.5	95.2	16,518	16,949	95.4	95.0
35 to 44 years	12,050	12,378	96.1	95.5	11,776	12,107	96.0	95.4
45 to 54 years	9,963	9,935	91.2	91.4	9,926	9,898	91.1	91.4
55 to 64 years	7,180	7,023	72.2	69.9	7,179	7,022	72.2	69.9
55 to 59 years	4,426	4,341	82.4	80.9	4,425	4,380	82.3	80.9
60 to 64 years	2,754	2,682	60.3	57.3	2,754	2,682	60.3	57.3
65 years and over	1,895	1,908	19.1	18.9	1,895	1,908	19.1	18.9
White								
16 years and over	55,066	55,344	78.4	77.9	53,550	53,821	77.9	77.4
16 to 19 years	4,359	4,163	62.0	61.0	4,143	3,952	60.8	59.7
16 to 17 years	1,742	1,644	50.9	49.9	1,723	1,628	50.6	49.6
18 to 19 years	2,617	2,519	72.6	71.3	2,420	2,324	71.0	69.6
20 to 24 years	7,708	7,724	86.5	86.2	7,158	7,163	85.6	85.3
25 to 54 years	34,721	35,326	95.2	95.1	33,974	34,577	95.1	95.0
25 to 34 years	15,081	15,467	96.1	96.0	14,595	14,976	96.0	95.9
35 to 44 years	10,734	10,996	96.8	96.0	10,505	10,770	96.7	95.9
45 to 54 years	8,906	8,863	92.1	92.3	8,873	8,832	92.1	92.3
55 to 64 years	6,559	6,395	73.1	70.7	6,558	6,394	73.1	70.7
55 to 59 years	4,029	3,937	83.2	81.7	4,028	3,936	83.2	81.7
60 to 64 years	2,530	2,458	61.2	58.2	2,530	2,458	61.2	58.2
65 years and over	1,717	1,735	19.3	19.1	1,717	1,735	19.3	19.1
Black and other								
16 years and over	7,025	7,076	72.2	70.9	6,585	6,623	70.9	69.5
16 to 19 years	577	484	44.1	37.1	512	426	41.1	34.1
16 to 17 years	192	135	29.1	20.6	189	132	28.7	20.3
18 to 19 years	385	349	59.4	53.7	323	293	55.2	49.3
20 to 24 years	1,219	1,217	81.8	80.0	1,028	1,019	79.1	77.0
25 to 54 years	4,431	4,574	89.3	89.0	4,247	4,377	88.9	88.6
25 to 34 years	2,057	2,120	91.4	89.5	1,923	1,973	90.9	88.8
35 to 44 years	1,316	1,382	90.6	92.1	1,271	1,337	90.3	91.9
45 to 54 years	1,058	1,071	84.1	84.4	1,053	1,067	84.0	84.3
55 to 64 years	621	628	63.9	62.8	621	628	63.9	62.8
55 to 59 years	397	404	74.3	74.3	397	404	74.3	74.3
60 to 64 years	224	224	51.2	49.0	224	224	51.2	49.0
65 years and over	177	173	17.8	17.0	177	173	17.8	17.0

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	
	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
FEMALES								
16 years and over	45,445	46,664	52.2	52.9	45,280	46,482	52.1	52.8
16 to 19 years	4,210	3,995	51.7	50.2	4,183	3,968	51.5	50.1
16 to 17 years	1,664	1,485	42.1	38.8	1,662	1,483	42.1	38.8
18 to 19 years	2,547	2,510	60.7	60.9	2,520	2,484	60.5	60.6
20 to 24 years	7,325	7,429	70.5	71.0	7,244	7,341	70.3	70.7
25 to 54 years	28,120	29,349	65.1	66.5	28,064	29,284	65.0	66.5
25 to 34 years	12,223	12,925	66.6	68.4	12,171	12,865	66.5	68.3
35 to 44 years	8,789	9,311	66.4	68.2	8,785	9,306	66.4	68.2
45 to 54 years	7,108	7,114	61.2	61.6	7,108	7,113	61.2	61.6
55 to 64 years	4,622	4,713	41.6	42.0	4,622	4,713	41.6	42.0
55 to 59 years	2,929	3,001	49.5	50.8	2,928	3,001	49.5	50.8
60 to 64 years	1,693	1,712	32.6	32.2	1,693	1,712	32.6	32.2
65 years and over	1,168	1,178	8.3	8.1	1,168	1,178	8.3	8.1
White								
16 years and over	39,251	40,266	51.9	52.7	39,129	40,136	51.9	52.6
16 to 19 years	3,793	3,528	55.6	53.2	3,773	3,509	55.5	53.1
16 to 17 years	1,537	1,351	46.7	42.6	1,536	1,350	46.6	42.5
18 to 19 years	2,255	2,177	64.0	63.0	2,237	2,158	63.8	62.8
20 to 24 years	6,315	6,382	72.1	72.5	6,256	6,320	71.9	72.3
25 to 54 years	24,034	25,149	64.6	66.3	23,992	25,101	64.5	66.3
25 to 34 years	10,293	10,955	65.7	68.1	10,255	10,912	65.6	68.0
35 to 44 years	7,551	8,019	66.1	68.0	7,547	8,015	66.0	68.0
45 to 54 years	6,190	6,175	61.1	61.4	6,189	6,174	61.1	61.4
55 to 64 years	4,069	4,156	40.9	41.4	4,069	4,156	40.9	41.4
55 to 59 years	2,570	2,668	48.6	50.7	2,570	2,668	48.6	50.7
60 to 64 years	1,499	1,489	32.1	31.2	1,499	1,489	32.1	31.2
65 years and over	1,039	1,050	8.1	8.0	1,039	1,050	8.1	8.0
Black and other								
16 years and over	6,194	6,397	54.2	54.5	6,151	6,347	54.0	54.3
16 to 19 years	418	467	31.5	35.3	410	459	31.1	35.0
16 to 17 years	126	133	19.3	20.4	126	133	19.2	20.4
18 to 19 years	291	333	43.6	49.9	284	326	43.0	49.3
20 to 24 years	1,010	1,046	61.9	63.1	989	1,021	61.4	62.5
25 to 54 years	4,086	4,200	68.4	67.9	4,072	4,183	68.3	67.8
25 to 34 years	1,930	1,969	71.8	69.8	1,916	1,953	71.7	69.6
35 to 44 years	1,238	1,292	68.5	69.0	1,238	1,291	68.5	69.0
45 to 54 years	918	939	62.1	62.8	918	939	62.1	62.8
55 to 64 years	552	556	47.8	46.7	552	556	47.8	46.7
55 to 59 years	358	333	57.0	51.8	358	333	57.0	51.8
60 to 64 years	194	223	36.8	40.7	194	223	36.8	40.7
65 years and over	128	128	9.5	9.2	128	128	9.5	9.2

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

[Numbers in thousands]

Sex and age	October 1981						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
TOTAL							
16 years and over	10,977	9,186	161	9,025	1,790	16.3	6,946
16 to 19 years	763	394	5	389	369	48.4	1,460
16 to 17 years	223	118	--	119	105	46.9	916
18 to 19 years	540	275	6	269	264	49.0	544
20 to 24 years	1,783	1,303	31	1,272	480	26.9	726
25 to 54 years	7,141	6,285	81	6,205	855	12.0	2,078
25 to 34 years	3,266	2,768	22	2,745	498	15.3	857
35 to 44 years	2,202	1,981	20	1,961	221	10.0	581
45 to 54 years	1,673	1,537	39	1,498	136	8.1	640
55 to 64 years	1,032	974	25	949	58	5.6	868
55 to 59 years	637	596	15	580	42	6.5	378
60 to 64 years	395	378	10	368	17	4.2	490
65 years and over	258	231	19	212	27	10.6	1,814
Males							
16 years and over	5,584	4,715	146	4,568	868	15.5	2,448
16 to 19 years	369	211	5	207	158	42.8	712
16 to 17 years	111	69	--	70	43	38.7	459
18 to 19 years	258	142	6	136	115	44.6	253
20 to 24 years	894	666	30	636	228	25.5	218
25 to 54 years	3,643	3,214	70	3,145	428	11.7	475
25 to 34 years	1,631	1,375	19	1,355	255	15.6	192
35 to 44 years	1,125	1,023	17	1,006	102	9.1	101
45 to 54 years	887	816	34	782	71	8.0	183
55 to 64 years	538	500	24	476	38	7.1	328
55 to 59 years	344	314	14	299	31	9.0	120
60 to 64 years	194	185	10	176	8	4.1	208
65 years and over	140	125	18	107	15	10.7	715
Females							
16 years and over	5,393	4,471	15	4,457	922	17.1	4,498
16 to 19 years	394	183	--	182	211	53.6	748
16 to 17 years	112	49	--	49	62	55.8	457
18 to 19 years	282	133	--	133	149	52.7	291
20 to 24 years	889	637	1	636	252	28.3	508
25 to 54 years	3,498	3,071	11	3,060	427	12.2	1,603
25 to 34 years	1,635	1,393	3	1,390	243	14.9	665
35 to 44 years	1,077	958	3	955	119	11.1	480
45 to 54 years	786	721	5	716	65	8.2	457
55 to 64 years	494	474	1	473	20	4.0	540
55 to 59 years	293	282	1	281	11	3.9	258
60 to 64 years	201	193	--	192	9	4.2	282
65 years and over	118	106	1	105	12	10.2	1,099

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

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

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
TOTAL								
Total noninstitutional population	167,005	169,252	71,661	72,915	78,860	80,248	16,484	16,089
Total labor force	107,536	109,083	57,155	57,772	41,235	42,669	9,147	8,643
Percent of population	64.4	64.5	79.8	79.2	52.3	53.2	55.5	53.7
Civilian labor force	105,415	106,926	55,480	56,065	41,097	42,515	8,837	8,345
Employed	97,933	98,902	52,364	52,733	38,318	39,497	7,250	6,671
Agriculture	3,501	3,517	2,459	2,495	655	661	388	361
Nonagricultural industries	94,431	95,385	49,905	50,239	37,664	38,836	6,862	6,311
Unemployed	7,482	8,024	3,116	3,332	2,779	3,018	1,588	1,674
Percent of labor force	7.1	7.5	5.6	5.9	6.8	7.1	18.0	20.1
Not in labor force	59,469	60,169	14,507	15,143	37,626	37,580	7,337	7,447
White								
Total noninstitutional population	145,848	147,524	63,242	64,235	68,756	69,827	13,850	13,462
Total labor force	94,316	95,610	50,706	51,180	35,458	36,738	8,152	7,692
Percent of population	64.7	64.8	80.2	79.7	51.6	52.6	58.9	57.1
Civilian labor force	92,679	93,957	49,407	49,869	35,356	36,627	7,916	7,461
Employed	86,936	87,894	46,971	47,312	33,283	34,398	6,682	6,184
Agriculture	3,288	3,291	2,288	2,305	624	632	376	354
Nonagricultural industries	83,648	84,603	44,683	45,006	32,659	33,766	6,306	5,831
Unemployed	5,743	6,063	2,436	2,557	2,073	2,229	1,234	1,276
Percent of labor force	6.2	6.5	4.9	5.1	5.9	6.1	15.6	17.1
Not in labor force	51,532	51,914	12,536	13,055	33,298	33,088	5,698	5,771
Black and other								
Total noninstitutional population	21,157	21,728	8,419	8,679	10,104	10,422	2,634	2,627
Total labor force	13,220	13,473	6,448	6,592	5,777	5,930	995	951
Percent of population	62.5	62.0	76.6	76.0	57.2	56.9	37.8	36.2
Civilian labor force	12,736	12,969	6,073	6,197	5,741	5,888	922	885
Employed	10,997	11,008	5,393	5,422	5,035	5,100	568	487
Agriculture	213	226	171	190	31	30	12	7
Nonagricultural industries	10,784	10,782	5,222	5,232	5,004	5,070	557	480
Unemployed	1,739	1,961	680	775	706	788	353	398
Percent of labor force	13.7	15.1	11.2	12.5	12.3	13.4	38.3	45.0
Not in labor force	7,937	8,255	1,970	2,087	4,328	4,491	1,639	1,676

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

(Numbers in thousands)

Employment status and major activity	October 1981								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	24,640	12,454	12,186	20,692	10,501	10,192	3,948	1,954	1,994
Total labor force	15,083	8,167	6,916	13,253	7,179	6,074	1,830	988	842
Percent of population	61.2	65.6	56.8	64.0	68.4	59.6	46.4	50.6	42.2
Civilian labor force	14,369	7,522	6,847	12,712	6,687	6,025	1,657	835	822
Employed	11,856	6,227	5,629	10,838	5,685	5,154	1,018	542	476
Agriculture	579	483	96	552	457	94	27	25	2
Nonagricultural industries	11,277	5,744	5,533	10,286	5,227	5,059	990	517	473
Unemployed	2,514	1,295	1,218	1,874	1,003	872	639	293	347
Looking for full-time work	1,517	807	711	1,075	593	482	442	214	229
Looking for part-time work	996	489	508	799	410	389	197	79	118
Percent of labor force	17.5	17.2	17.8	14.7	15.0	14.5	38.6	35.0	42.2
Not in labor force	9,557	4,287	5,270	7,440	3,322	4,118	2,117	966	1,152
Major activity: going to school									
Civilian labor force	4,371	2,213	2,158	3,949	2,012	1,938	422	202	220
Employed	3,457	1,733	1,724	3,222	1,607	1,615	236	126	110
Agriculture	178	150	28	177	149	28	--	--	--
Nonagricultural industries	3,280	1,583	1,696	3,044	1,458	1,587	235	126	110
Unemployed	914	480	434	727	404	323	186	76	111
Looking for full-time work	63	30	33	42	20	22	21	10	11
Looking for part-time work	851	450	401	686	384	301	165	65	100
Percent of labor force	20.9	21.7	20.1	18.4	20.1	16.7	44.2	37.6	50.2
Not in labor force	7,669	3,782	3,887	6,044	2,977	3,067	1,625	805	820
Major activity: other									
Civilian labor force	9,998	5,308	4,690	8,763	4,676	4,088	1,235	633	602
Employed	8,398	4,493	3,905	7,616	4,077	3,539	782	416	366
Agriculture	401	333	68	374	308	66	27	25	2
Nonagricultural industries	7,997	4,161	3,836	7,242	3,769	3,473	755	391	364
Unemployed	1,600	815	785	1,147	598	549	453	217	236
Looking for full-time work	1,454	776	678	1,034	573	460	421	203	218
Looking for part-time work	145	39	107	114	25	88	32	13	18
Percent of labor force	16.0	15.4	16.7	13.1	12.8	13.4	36.7	34.2	39.2
Not in labor force	1,888	505	1,383	1,396	344	1,051	493	161	332

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

(Numbers in thousands)

Sex, age, and race	October 1981								
	Full-time labor force					Part-time labor force			
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time ¹	Unemployed (looking for part-time work)	
		Full-time schedules ¹	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
Both sexes, 16 years and over	90,785	79,572	4,833	6,380	7.0	16,141	14,497	1,644	10.2
16 to 21 years	8,595	6,035	1,042	1,517	17.7	5,775	4,779	996	17.2
16 to 19 years	3,856	2,443	578	836	21.7	4,489	3,651	838	18.7
16 to 17 years	565	290	121	153	27.2	2,679	2,169	509	19.0
18 to 19 years	3,291	2,153	456	682	20.7	1,810	1,481	329	18.2
20 years and over	86,929	77,129	4,255	5,544	6.4	11,652	10,847	805	6.9
20 to 24 years	13,129	10,527	987	1,616	12.3	2,392	2,143	249	10.4
25 years and over	73,799	66,603	3,268	3,928	5.3	9,259	8,704	556	6.0
25 to 54 years	61,931	55,685	2,678	3,568	5.8	6,308	5,902	406	6.4
55 years and over	11,869	10,918	590	360	3.0	2,952	2,801	150	5.1
Males, 16 years and over	55,278	49,586	2,167	3,526	6.4	5,165	4,517	648	12.6
16 to 21 years	4,737	3,455	475	807	17.0	2,785	2,297	489	17.5
16 to 19 years	2,133	1,444	263	426	20.0	2,245	1,829	416	18.5
20 years and over	53,145	48,141	1,904	3,100	5.8	2,920	2,688	232	7.9
20 to 24 years	7,199	5,830	434	935	13.0	983	878	105	10.7
25 years and over	45,947	42,311	1,471	2,165	4.7	1,938	1,810	127	6.6
25 to 54 years	38,248	35,099	1,199	1,950	5.1	707	646	60	8.5
55 years and over	7,699	7,212	272	215	2.8	1,230	1,164	67	5.4
Females, 16 years and over	35,506	29,986	2,665	2,854	8.0	10,976	9,981	995	9.1
16 to 21 years	3,858	2,579	568	711	18.4	2,990	2,482	508	17.0
16 to 19 years	1,723	998	315	410	23.8	2,244	1,822	422	18.8
20 years and over	33,783	28,988	2,351	2,445	7.2	8,732	8,159	573	6.6
20 to 24 years	5,931	4,697	553	681	11.5	1,410	1,265	145	10.2
25 years and over	27,852	24,291	1,797	1,764	6.3	7,322	6,893	428	5.8
25 to 54 years	23,683	20,586	1,479	1,618	6.8	5,602	5,256	346	6.2
55 years and over	4,169	3,705	319	146	3.5	1,720	1,637	83	4.8
White									
Males, 16 years and over	49,171	44,671	1,801	2,699	5.5	4,650	4,123	527	11.3
16 to 21 years	4,157	3,143	421	593	14.3	2,530	2,120	410	16.2
16 to 19 years	1,908	1,348	240	320	16.8	2,044	1,694	349	17.1
20 years and over	47,263	43,323	1,560	2,379	5.0	2,606	2,428	178	6.8
20 to 24 years	6,283	5,221	356	707	11.2	879	792	87	9.9
25 years and over	40,979	38,102	1,204	1,672	4.1	1,727	1,637	90	5.2
25 to 54 years	33,978	31,500	981	1,498	4.4	599	556	43	7.2
55 years and over	7,001	6,602	224	175	2.5	1,128	1,082	47	4.2
Females, 16 years and over	30,150	25,930	2,190	2,031	6.7	9,986	9,180	806	8.1
16 to 21 years	3,323	2,341	499	482	14.5	2,702	2,313	389	14.4
16 to 19 years	1,507	924	290	293	19.5	2,002	1,688	313	15.7
20 years and over	28,643	25,005	1,901	1,737	6.1	7,984	7,492	492	6.2
20 to 24 years	5,019	4,133	454	431	8.6	1,301	1,180	121	9.3
25 years and over	23,625	20,872	1,447	1,306	5.5	6,683	6,312	372	5.6
25 to 54 years	19,950	17,567	1,202	1,182	5.9	5,152	4,853	299	5.8
55 years and over	3,675	3,306	245	123	3.3	1,531	1,459	73	4.8
Black and other									
Males, 16 years and over	6,108	4,915	366	826	13.5	515	394	121	23.5
16 to 21 years	580	312	54	214	36.9	255	176	79	30.9
16 to 19 years	225	96	23	106	47.0	201	134	67	33.3
20 years and over	5,883	4,818	344	721	12.3	314	260	54	17.3
20 to 24 years	915	609	78	228	24.9	103	86	17	16.9
25 years and over	4,968	4,209	266	493	9.9	210	174	36	17.1
25 to 54 years	4,269	3,599	218	452	10.6	108	91	17	15.7
55 years and over	699	610	48	41	5.9	102	83	19	18.6
Females, 16 years and over	5,356	4,057	475	824	15.4	991	801	190	19.2
16 to 21 years	535	238	68	229	42.7	287	169	118	41.1
16 to 19 years	216	74	25	116	53.9	243	134	109	44.8
20 years and over	5,140	3,982	450	707	13.8	748	667	81	10.8
20 to 24 years	912	564	99	250	27.4	109	85	24	22.0
25 years and over	4,227	3,418	351	458	10.8	639	583	57	8.9
25 to 54 years	3,733	3,019	277	437	11.7	450	404	46	10.2
55 years and over	494	399	74	21	4.3	189	179	11	5.8

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	October 1981									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 18 years and over	106,926	64.0	98,902	8,024	7.5	60,169	30,755	9,334	2,647	17,433
Husbands	39,041	80.5	37,516	1,525	3.9	9,433	114	186	1,001	8,132
With employed wife	21,744	91.9	20,988	756	3.5	1,905	43	115	374	1,373
With unemployed wife	1,419	93.7	1,239	179	12.6	96	2	11	23	61
With wife not in labor force	15,879	68.1	15,289	590	3.7	7,432	70	60	605	6,698
Wives	25,163	51.9	23,649	1,514	6.0	23,311	20,669	334	284	2,025
With employed husband	22,227	59.2	20,988	1,239	5.6	15,289	13,998	293	110	888
With unemployed husband	935	61.3	756	179	19.2	590	528	15	6	41
With husband not in labor force	2,000	21.2	1,905	96	4.8	7,432	6,143	26	168	1,095
Relatives in married-couple families	13,007	61.1	11,111	1,896	14.6	8,286	769	5997	257	1,264
16 to 19 years	5,641	52.9	4,706	935	16.6	5,021	99	4,630	11	280
20 to 24 years	4,908	75.2	4,219	690	14.1	1,616	99	1,261	25	230
25 years and over	2,458	59.8	2,186	271	11.0	1,649	571	106	221	754
Females who maintain families	5,582	61.0	4,967	614	11.0	3,565	2,755	146	125	538
Relatives in families maintained by females	4,471	55.4	3,458	1,012	22.6	3,600	746	1,642	252	960
16 to 19 years	1,236	43.4	796	440	35.6	1,612	89	1,326	4	193
20 to 24 years	1,426	72.8	1,106	319	22.4	533	96	262	24	151
25 years and over	1,809	55.4	1,556	253	14.0	1,455	561	54	224	616
Males who maintain families	1,768	74.3	1,635	133	7.5	611	29	38	71	474
Relatives in families maintained by males	1,467	58.4	1,269	197	13.5	1,045	414	290	74	267
16 to 19 years	328	58.0	249	79	24.0	238	15	209	2	11
20 to 24 years	425	75.7	363	61	14.5	136	27	56	3	50
25 years and over	714	51.6	657	57	8.0	671	372	25	69	206
Persons living alone	10,197	53.8	9,682	514	5.0	8,769	4,849	215	488	3,217
Males	5,293	71.4	4,980	313	5.9	2,121	98	137	237	1,648
Females	4,904	42.5	4,703	201	4.1	6,648	4,751	77	251	1,569
All others ¹	6,230	80.1	5,615	619	9.9	1,549	410	486	95	556

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

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

Marital status, race, and age	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
	Total, 18 years and over	4,009	4,174	6.7	6.9	3,473	3,850	7.7	8.3
Married, spouse present	1,545	1,603	3.9	4.0	1,530	1,590	6.1	6.2
Widowed, divorced, or separated	409	482	7.9	8.9	653	767	7.6	8.4
Single (never married)	2,056	2,089	13.8	13.9	1,290	1,493	11.1	12.6
White, 18 years and over	3,133	3,226	5.9	6.0	2,610	2,836	6.7	7.1
Married, spouse present	1,324	1,322	3.6	3.6	1,303	1,338	5.8	5.8
Widowed, divorced, or separated	301	323	7.1	7.4	452	567	6.6	7.7
Single (never married)	1,508	1,582	11.8	12.2	856	931	8.8	9.5
Black and other, 18 years and over	876	948	13.3	14.3	863	1,014	14.0	16.0
Married, spouse present	220	281	6.3	7.9	227	251	8.8	9.7
Widowed, divorced, or separated	108	159	11.5	15.4	201	200	11.8	11.3
Single (never married)	548	507	25.2	24.9	434	562	23.4	28.2
Total, 20 to 64 years of age	3,071	3,270	5.7	6.0	2,737	2,966	6.9	7.2
Married, spouse present	1,488	1,546	3.9	4.0	1,441	1,516	5.9	6.1
Widowed, divorced, or separated	399	459	8.1	9.0	619	722	7.8	8.6
Single (never married)	1,185	1,265	11.4	11.7	577	728	8.7	8.9
White, 20 to 64 years of age	2,401	2,515	5.0	5.2	2,035	2,190	5.9	6.2
Married, spouse present	1,276	1,275	3.7	3.7	1,224	1,273	5.6	5.7
Widowed, divorced, or separated	294	312	7.3	7.6	420	529	6.7	7.9
Single (never married)	830	928	9.5	10.1	391	389	6.2	5.9
Black and other, 20 to 64 years of age	670	754	11.4	12.5	703	775	12.5	13.5
Married, spouse present	212	271	6.3	7.9	218	243	8.6	9.6
Widowed, divorced, or separated	104	146	11.6	14.9	199	193	12.3	11.4
Single (never married)	354	337	21.3	20.9	286	339	19.5	21.9

A-11. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
Total, 16 years and over	7,482	8,024	7.1	7.5	6.7	6.9	7.7	8.3
White-collar workers	2,146	2,326	4.0	4.3	3.0	2.7	4.9	5.6
Professional and technical	451	457	2.8	2.7	2.2	2.2	3.4	3.4
Managers and administrators, except farm	282	323	2.5	2.7	2.2	2.2	3.3	4.2
Sales workers	280	309	4.2	4.7	3.5	3.2	5.1	6.4
Clerical workers	1,133	1,237	5.9	6.4	6.0	4.9	5.8	6.7
Blue-collar workers	3,250	3,281	9.5	9.7	8.7	9.2	13.0	11.9
Craft and kindred workers	806	946	6.0	7.2	5.9	7.3	7.1	5.8
Carpenters and other construction craft workers	398	490	9.1	11.8	9.0	11.8	13.3	9.2
All other	408	456	4.5	5.1	4.3	5.0	6.5	5.4
Operatives, except transport	1,402	1,353	11.9	11.5	10.1	10.5	14.3	13.1
Transport equipment operatives	328	248	8.6	6.5	8.8	6.7	7.1	4.5
Nonfarm laborers	714	733	14.1	14.4	14.1	14.3	13.7	15.2
Construction laborers	160	200	17.3	20.7	16.9	20.1	(1)	(1)
All other	554	533	13.4	12.9	13.5	12.8	12.8	13.8
Service workers	1,182	1,365	8.4	9.4	8.3	9.2	8.5	9.5
Private household	68	83	6.0	7.6	(1)	(1)	6.0	7.4
All other	1,114	1,282	8.6	9.5	8.3	9.2	8.8	9.7
Farm workers	111	157	3.7	5.1	3.3	4.5	5.3	7.7
No previous work experience	793	894	--	--	--	--	--	--
16 to 19 years	579	609	--	--	--	--	--	--
20 to 24 years	122	165	--	--	--	--	--	--
25 years and over	92	119	--	--	--	--	--	--

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

A-12. Unemployed persons by industry and sex

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
Total, 16 years and over	100.0	100.0	7.1	7.5	6.7	6.9	7.7	8.3
Nonagricultural private wage and salary workers	75.2	74.4	7.3	7.6	7.0	7.2	7.8	8.1
Mining	.9	1.0	7.0	6.7	7.6	6.6	4.2	7.6
Construction	7.5	8.7	11.1	13.9	11.1	14.1	11.0	11.5
Manufacturing	26.1	22.7	8.6	8.0	7.2	7.0	11.4	10.1
Durable goods	15.9	13.5	8.6	7.8	7.9	7.2	10.6	9.4
Lumber and wood products	1.0	.8	11.1	10.8	11.5	10.8	8.8	10.7
Furniture and fixtures	.7	.8	9.7	10.5	8.2	8.3	13.1	15.2
Stone, clay, and glass products	.7	.7	8.8	8.5	8.2	7.8	11.2	11.8
Primary metal industries	1.6	1.7	10.1	10.8	9.6	11.0	13.1	9.8
Fabricated metal products	1.8	2.1	8.5	11.2	7.4	10.3	12.5	14.2
Machinery, except electrical equipment	2.9	1.9	7.6	5.0	7.1	5.0	9.4	5.0
Electrical equipment	2.0	2.0	6.3	6.5	4.3	4.7	8.9	8.7
Transportation equipment	3.7	2.1	11.8	7.4	11.0	7.0	15.5	8.9
Automobiles	2.7	1.5	16.3	10.1	14.1	9.1	26.3	15.9
Other transportation equipment	1.0	.6	6.9	4.4	7.5	4.8	4.3	3.2
Instruments and related products	.6	.5	6.7	5.6	4.9	1.8	9.0	10.5
Other durable goods industries	.7	.8	7.0	9.2	5.2	8.2	9.2	10.5
Nondurable goods	10.2	9.3	8.5	8.3	5.8	6.4	12.0	10.8
Food and kindred products	2.4	2.6	9.6	10.7	7.4	8.8	14.8	14.9
Textile mill products	1.3	1.2	11.5	12.2	8.0	7.7	14.7	16.0
Apparel and other textile products	2.1	1.7	11.9	10.0	8.7	8.0	12.7	10.5
Paper and allied products	.5	.7	5.2	7.5	4.1	5.9	8.9	13.5
Printing and publishing	1.3	1.0	6.4	5.1	5.0	4.2	8.4	6.1
Chemicals and allied products	.9	.8	5.1	4.8	3.6	3.6	8.7	7.8
Rubber and plastics products	.9	.8	8.7	8.4	6.6	8.3	12.2	8.7
Other nondurable goods industries	.8	.6	9.2	7.9	5.1	5.9	14.1	10.7
Transportation and public utilities	3.6	3.0	4.9	4.2	5.2	4.4	4.0	3.5
Railroads and railway express	.5	.2	5.6	3.6	5.9	3.3	(1)	(1)
Other transportation	2.7	1.9	7.8	5.8	8.1	6.3	6.5	3.9
Communication and other public utilities	.5	.8	1.5	2.6	.9	2.4	2.6	3.0
Wholesale and retail trade	19.2	19.9	7.5	8.1	6.7	6.7	8.3	9.5
Finance, insurance, and real estate	2.7	2.6	3.6	3.8	3.4	3.1	3.8	4.2
Service industries	15.2	16.6	6.4	7.1	6.3	6.8	6.5	7.3
Professional services	6.6	7.3	4.7	5.3	4.1	3.7	5.0	6.0
All other service industries	8.6	9.3	8.8	9.7	8.2	9.5	9.2	9.8
Agricultural wage and salary workers	2.1	2.6	9.9	12.0	8.9	10.2	14.1	18.7
All other classes of workers	12.1	11.9	3.5	3.7	3.2	3.3	3.8	4.3
No previous work experience	10.6	11.1	--	--	--	--	--	--

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

HOUSEHOLD DATA

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
NUMBER OF UNEMPLOYED												
Total unemployed, in thousands.....	7,482	8,024	3,116	3,332	2,779	3,018	1,588	1,674	5,743	6,063	1,739	1,961
Job losers.....	3,686	3,887	2,187	2,334	1,164	1,161	335	393	2,847	2,980	838	906
On layoff.....	1,219	1,181	732	714	401	380	86	87	996	962	223	218
Other job losers.....	2,467	2,706	1,455	1,620	763	781	249	306	1,851	2,018	615	688
Job leavers.....	913	1,007	349	307	394	499	170	200	770	822	143	185
Reentrants.....	2,092	2,239	498	589	1,089	1,174	505	475	1,564	1,651	528	588
New entrants.....	791	892	82	102	132	183	577	607	562	610	229	282
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.....	49.3	48.4	70.2	70.0	41.9	38.5	21.0	23.5	49.5	49.2	48.2	46.2
On layoff.....	16.3	14.7	23.5	21.4	14.4	12.6	5.4	5.2	17.3	15.9	12.8	11.1
Other job losers.....	33.0	33.7	46.7	48.6	27.5	25.9	15.6	18.3	32.2	33.3	35.4	35.1
Job leavers.....	12.2	12.5	11.2	9.2	14.2	16.5	10.7	11.9	13.4	13.6	8.2	9.4
Reentrants.....	28.0	27.9	16.0	17.7	39.2	38.9	31.8	28.4	27.2	27.2	30.4	30.0
New entrants.....	10.6	11.1	2.6	3.1	4.8	6.1	36.4	36.2	9.8	10.1	13.2	14.4
UNEMPLOYMENT RATE												
Total unemployment rate.....	7.1	7.5	5.6	5.9	6.8	7.1	18.0	20.1	6.2	6.5	13.7	15.1
Job loser rate ¹	3.5	3.6	3.9	4.2	2.9	2.7	3.8	4.7	3.1	3.1	6.6	7.0
Job leaver rate ¹.....	.9	.9	.6	.5	1.0	1.2	1.9	2.4	.8	.9	1.1	1.4
Reentrant rate ¹	2.0	2.1	.9	1.1	2.6	2.8	5.7	5.7	1.7	1.8	4.1	4.5
New entrant rate ¹.....	.8	.8	.1	.2	.3	.4	6.5	7.3	.6	.6	1.8	2.2

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

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

[Percent distribution]

Reason, sex, and age	October 1981						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over.....	8,024	100.0	43.9	30.5	25.6	12.7	12.9
Job losers.....	3,887	100.0	40.1	28.9	31.0	14.3	16.7
On layoff.....	1,181	100.0	58.1	22.7	19.2	11.0	8.1
Other job losers.....	2,706	100.0	32.2	31.6	36.2	15.8	20.4
Job leavers.....	1,007	100.0	47.5	34.7	17.8	9.1	8.7
Reentrants.....	2,239	100.0	49.7	30.7	19.6	10.1	9.5
New entrants.....	892	100.0	41.8	32.4	25.8	15.9	9.9
Males, 20 years and over.....	3,332	100.0	38.5	29.4	32.1	13.3	18.8
Job losers.....	2,334	100.0	38.2	27.5	34.3	14.2	20.1
On layoff.....	714	100.0	59.2	21.6	19.2	10.2	9.0
Other job losers.....	1,620	100.0	28.9	30.1	41.0	16.0	25.0
Job leavers.....	307	100.0	38.0	34.2	27.7	11.5	16.3
Reentrants.....	589	100.0	42.1	34.3	23.6	9.4	14.2
New entrants.....	102	100.0	27.1	30.0	42.8	19.0	23.9
Females, 20 years and over.....	3,018	100.0	46.1	30.8	23.1	12.7	10.3
Job losers.....	1,161	100.0	37.8	31.8	30.4	16.5	14.0
On layoff.....	380	100.0	51.9	27.2	21.0	13.2	7.8
Other job losers.....	781	100.0	30.9	34.0	35.1	18.1	17.0
Job leavers.....	499	100.0	47.4	36.3	16.3	9.7	6.6
Reentrants.....	1,174	100.0	54.7	27.9	17.4	9.5	7.9
New entrants.....	183	100.0	41.0	28.0	31.0	18.0	12.9
Both sexes, 16 to 19 years.....	1,674	100.0	50.5	32.3	17.2	11.4	5.8
Job losers.....	393	100.0	58.4	28.7	12.8	8.4	4.5
On layoff.....	87	100.0	76.3	12.7	11.0	8.1	2.9
Other job losers.....	306	100.0	53.4	33.3	13.4	8.4	4.9
Job leavers.....	200	100.0	62.2	31.4	6.4	4.2	2.2
Reentrants.....	475	100.0	46.7	33.2	20.1	12.6	7.4
New entrants.....	607	100.0	44.5	34.1	21.4	14.8	6.6

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

Sex, age, and race	October 1981								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	8,024	6,748	26.0	6.7	75.1	31.9	13.8	4.8	1.58
16 to 19 years	1,674	1,569	18.4	4.5	78.8	25.1	12.0	4.0	1.43
20 to 24 years	1,865	1,629	30.4	5.3	77.7	32.9	13.6	2.9	1.63
25 to 34 years	2,185	1,722	29.1	7.4	74.1	36.1	12.6	5.1	1.64
35 to 44 years	1,066	857	28.8	10.9	72.1	34.7	17.0	5.0	1.68
45 to 54 years	723	563	26.3	8.7	70.3	31.8	15.8	8.2	1.61
55 to 64 years	396	313	22.4	7.0	70.0	31.0	16.0	9.6	1.56
65 years and over	114	94	6.4	2.1	59.6	27.7	20.2	10.6	1.27
Males, 16 years and over	4,174	3,349	28.4	6.4	76.6	29.5	15.9	6.1	1.63
16 to 19 years	842	774	16.9	3.4	82.9	23.0	12.8	3.2	1.42
20 to 24 years	1,039	872	31.3	6.1	76.9	30.0	17.1	4.5	1.66
25 to 34 years	1,124	827	33.9	6.9	75.2	32.9	14.8	7.3	1.71
35 to 44 years	511	374	36.9	11.5	75.1	35.3	19.0	5.9	1.84
45 to 54 years	376	279	30.8	7.2	71.7	27.2	19.0	10.4	1.66
55 to 64 years	219	170	25.3	8.2	67.6	32.4	15.3	14.1	1.63
65 years and over	62	54	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	3,850	3,398	23.7	7.0	73.7	34.2	11.7	3.6	1.54
16 to 19 years	832	795	19.9	5.5	74.8	27.2	11.2	4.8	1.43
20 to 24 years	825	757	29.3	4.5	78.6	36.2	9.6	1.2	1.59
25 to 34 years	1,061	896	24.7	7.8	73.0	39.1	10.6	3.1	1.58
35 to 44 years	555	483	22.8	10.4	69.8	34.2	15.5	4.3	1.57
45 to 54 years	347	284	22.2	10.2	69.0	36.3	12.3	6.0	1.56
55 to 64 years	177	142	19.0	6.3	73.2	29.6	16.9	4.2	1.49
65 years and over	52	41	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over	6,063	5,015	24.0	6.8	75.7	33.8	13.5	4.9	1.59
Males	3,226	2,540	26.4	6.7	77.4	30.6	15.3	6.4	1.63
Females	2,836	2,475	21.5	6.9	74.0	37.1	11.7	3.2	1.54
Black and other, 16 years and over	1,961	1,732	31.9	6.3	73.3	26.4	14.7	4.8	1.57
Males	948	809	34.7	5.4	73.9	26.5	17.9	5.1	1.64
Females	1,014	923	29.5	7.2	72.9	26.5	11.8	4.4	1.52

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

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

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

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

Sex and reason	October 1981								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	8,024	6,748	26.0	6.7	75.1	31.9	13.8	4.8	1.58
Job losers	3,887	2,703	31.7	7.8	77.4	32.3	15.8	5.5	1.71
Job leavers	1,007	995	29.9	7.0	73.0	39.8	13.6	2.8	1.66
Reentrants	2,239	2,161	21.1	6.0	71.7	31.4	12.3	5.5	1.48
New entrants	892	890	16.2	4.5	78.8	23.3	11.6	3.5	1.38
Males, 16 years and over	4,174	3,349	28.4	6.4	76.6	29.5	15.9	6.1	1.63
Job losers	2,558	1,781	32.8	7.2	78.2	30.1	16.6	6.9	1.72
Job leavers	399	382	30.1	5.8	78.8	36.4	17.0	4.5	1.73
Reentrants	832	802	23.3	6.7	70.2	29.2	14.5	7.5	1.51
New entrants	385	384	17.4	2.3	80.5	20.8	14.6	1.3	1.37
Females, 16 years and over	3,850	3,398	23.7	7.0	73.7	34.2	11.7	3.6	1.54
Job losers	1,329	922	29.7	9.0	75.9	36.4	14.3	2.9	1.68
Job leavers	608	613	29.9	7.8	69.3	41.8	11.4	1.8	1.62
Reentrants	1,406	1,357	20.0	5.6	72.6	32.6	11.1	--	1.42
New entrants	507	506	15.2	6.1	77.7	25.1	9.3	5.1	1.39

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	
	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
Total, 16 years and over	7,482	8,024	100.0	100.0	5,911	6,380	100.0	100.0
Less than 5 weeks	3,087	3,521	41.3	43.9	2,214	2,608	37.5	40.9
5 to 14 weeks	2,338	2,449	31.2	30.5	1,835	1,913	31.0	30.0
15 to 26 weeks	1,725	1,903	23.1	23.7	1,294	1,461	21.9	22.9
27 to 51 weeks	614	546	8.2	6.8	541	453	9.2	7.1
52 weeks and over	2,058	2,053	27.5	25.6	1,862	1,859	31.5	29.1
Average (mean) duration, in weeks	12.9	13.4	--	--	14.3	14.7	--	--
Median duration, in weeks	6.8	6.2	--	--	8.1	7.0	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
	October 1981								Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
Total, 16 years and over	8,024	3,521	2,449	1,017	1,036	13.4	6.2	41.3	43.9	27.5	25.6
16 to 21 years	2,514	1,205	829	287	192	10.1	5.4	45.2	48.0	19.9	19.1
16 to 19 years	1,674	845	541	191	97	8.9	5.0	47.3	50.5	16.9	17.2
20 to 24 years	1,865	816	555	250	244	13.4	6.4	43.6	43.8	25.3	26.5
25 to 34 years	2,185	942	674	264	305	13.8	6.5	38.7	43.1	31.2	26.0
35 to 44 years	1,066	428	304	152	183	16.2	7.1	37.2	40.1	32.4	31.4
45 to 54 years	723	285	221	102	115	15.4	6.8	37.2	39.5	37.4	30.0
55 to 64 years	396	140	128	45	83	18.9	8.1	34.8	35.3	34.3	32.5
65 years and over	114	65	27	13	9	11.1	4.4	44.1	56.4	21.5	19.6
Males, 16 years and over	4,174	1,693	1,247	552	682	15.4	7.1	36.4	40.6	33.0	29.6
16 to 21 years	2,514	1,205	829	287	192	11.5	6.0	43.8	48.8	21.8	21.9
16 to 19 years	842	410	267	110	56	9.6	5.2	48.1	48.7	18.0	19.6
20 to 24 years	1,039	409	314	140	177	15.4	7.3	39.1	39.3	30.4	30.5
25 to 34 years	1,124	458	339	134	192	15.9	7.1	29.9	40.7	39.6	29.1
35 to 44 years	511	163	148	83	117	19.7	10.1	29.8	31.8	39.4	39.2
45 to 54 years	376	146	92	59	78	17.9	9.0	30.7	38.9	47.8	36.5
55 to 64 years	219	79	66	19	55	20.5	8.8	30.3	36.2	39.7	33.8
65 years and over	62	29	20	7	8	13.2	5.9	(1)	(1)	(1)	(1)
Females, 16 years and over	3,850	1,828	1,203	466	354	11.2	5.5	46.8	47.5	21.2	21.3
16 to 21 years	1,218	625	398	127	69	8.7	4.9	47.2	51.3	17.4	16.0
16 to 19 years	832	435	274	81	41	8.2	4.8	46.2	52.3	15.4	14.8
20 to 24 years	825	408	241	110	67	10.8	5.2	49.8	49.4	18.4	21.5
25 to 34 years	1,061	484	334	130	113	11.5	6.0	48.4	45.7	22.0	22.9
35 to 44 years	555	265	156	68	66	13.0	5.4	43.6	47.7	26.3	24.2
45 to 54 years	347	139	129	43	37	12.8	6.0	43.5	40.0	27.3	22.9
55 to 64 years	177	61	62	26	28	17.0	7.3	41.1	34.2	26.7	30.8
65 years and over	52	36	8	6	2	8.6	3.6	(1)	(1)	(1)	(1)
White, 16 years and over	6,063	2,719	1,889	749	705	12.4	6.0	42.4	44.8	26.8	24.0
Males	3,226	1,351	975	428	472	14.0	6.7	37.7	41.9	32.3	27.9
Females	2,836	1,367	915	321	233	10.6	5.3	48.1	48.2	20.1	19.5
Black and other, 16 years and over	1,961	802	560	268	331	16.3	7.2	37.4	40.9	29.9	30.5
Males	948	342	272	123	210	19.9	9.0	32.1	36.1	35.3	35.2
Females	1,014	460	288	145	120	12.9	5.9	42.8	45.4	24.5	26.2
Males, 16 years and over:											
Married, spouse present	1,603	661	454	202	286	16.1	7.3	33.8	41.2	38.1	30.5
Widowed, divorced, or separated	482	172	142	73	96	17.9	8.6	30.6	35.7	39.8	34.9
Single (never married)	2,089	860	651	277	300	14.2	6.7	39.6	41.2	27.8	27.6
Females, 16 years and over:											
Married, spouse present	1,590	790	485	183	132	10.5	5.1	49.1	49.7	20.7	19.8
Widowed, divorced, or separated	767	342	227	98	100	13.5	5.9	45.3	44.6	26.0	25.8
Single (never married)	1,493	696	490	185	122	10.7	5.6	44.8	46.6	19.3	20.5

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

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 6 weeks as a percent of unemployed in group		18 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			Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
	October 1981										
OCCUPATION											
White-collar workers	2,326	956	806	323	242	12.4	6.7	43.0	41.1	23.1	24.3
Professional and managerial	780	288	293	110	88	13.3	7.8	38.1	36.9	25.8	25.4
Sales workers	309	133	117	31	28	11.2	5.9	43.0	43.1	25.8	19.0
Clerical workers	1,237	535	395	182	126	12.1	6.3	46.1	43.2	20.7	24.9
Blue-collar workers	3,281	1,419	952	373	536	15.0	6.5	36.4	43.3	34.9	27.7
Craft and kindred workers	946	417	273	108	148	13.8	6.1	34.6	44.1	35.8	27.1
Operatives, except transport	1,353	603	387	156	208	15.0	6.3	37.3	44.5	36.3	26.9
Transport equipment operatives	248	95	67	30	56	18.6	7.5	34.0	38.4	35.8	34.7
Nonfarm laborers	733	304	226	79	124	15.3	7.3	38.0	41.5	30.6	27.7
Service workers	1,365	683	354	164	163	12.0	5.0	47.5	50.1	19.7	24.0
INDUSTRY¹											
Agriculture	206	123	56	17	11	8.7	4.2	47.5	59.6	15.7	13.3
Construction	735	364	192	73	107	13.0	5.1	39.1	49.5	32.5	24.4
Manufacturing	1,823	779	537	200	307	15.5	6.7	35.2	42.7	37.3	27.8
Durable goods	1,080	422	331	121	207	17.3	7.9	27.1	39.0	44.3	30.3
Nondurable goods	743	357	206	79	100	12.8	5.4	47.9	48.1	26.6	24.2
Transportation and public utilities	266	100	83	40	43	16.5	8.0	40.8	37.5	34.6	31.1
Wholesale and retail trade	1,607	729	522	179	176	11.7	5.8	42.9	45.4	24.0	22.1
Finance and service industries	1,942	827	611	282	222	12.6	6.4	46.5	42.6	20.2	26.0
Public administration	290	107	84	46	53	17.1	8.6	31.2	36.8	23.9	34.3
No previous work experience	894	372	291	143	88	12.9	6.4	45.1	41.6	22.9	25.8

¹ Includes wage and salary workers only.

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

[In thousands]

Industry and age	Total		Males		Females	
	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
All industries	97,933	98,902	56,125	56,269	41,807	42,633
16 to 19 years	7,250	6,671	3,761	3,536	3,489	3,135
16 to 17 years	2,864	2,581	1,509	1,411	1,355	1,169
18 to 19 years	4,386	4,091	2,252	2,125	2,134	1,966
20 to 24 years	13,650	13,657	7,159	7,142	6,491	6,515
25 to 54 years	62,605	64,265	36,380	36,944	26,224	27,321
25 to 34 years	26,640	27,630	15,451	15,826	11,189	11,804
35 to 44 years	19,627	20,346	11,345	11,596	8,282	8,751
45 to 54 years	16,338	16,289	9,585	9,522	6,753	6,766
55 to 64 years	11,452	11,338	6,975	6,802	4,478	4,536
55 to 59 years	7,120	7,076	4,292	4,199	2,828	2,877
60 to 64 years	4,332	4,262	2,683	2,603	1,649	1,659
65 years and over	2,976	2,971	1,850	1,845	1,126	1,126
Nonagricultural industries	94,431	95,385	53,346	53,476	41,085	41,909
16 to 19 years	6,862	6,311	3,441	3,237	3,422	3,074
16 to 17 years	2,679	2,402	1,351	1,262	1,327	1,140
18 to 19 years	4,184	3,909	2,090	1,976	2,094	1,934
20 to 24 years	13,240	13,194	6,822	6,753	6,419	6,441
25 to 54 years	60,804	62,432	35,035	35,558	25,770	26,874
25 to 34 years	25,969	26,882	14,933	15,238	11,036	11,644
35 to 44 years	19,073	19,800	10,943	11,203	8,131	8,597
45 to 54 years	15,761	15,750	9,159	9,117	6,603	6,634
55 to 64 years	10,883	10,782	6,503	6,352	4,380	4,430
55 to 59 years	6,812	6,757	4,044	3,951	2,768	2,806
60 to 64 years	4,071	4,025	2,459	2,401	1,612	1,624
65 years and over	2,642	2,666	1,546	1,575	1,095	1,091
Agriculture	3,501	3,517	2,779	2,794	722	723
16 to 19 years	388	361	320	299	67	62
16 to 17 years	185	179	158	150	28	29
18 to 19 years	202	181	163	149	40	32
20 to 24 years	409	463	337	389	72	74
25 to 54 years	1,800	1,833	1,346	1,386	455	447
25 to 34 years	670	748	517	587	153	160
35 to 44 years	554	547	403	393	151	154
45 to 54 years	576	538	426	406	150	133
55 to 64 years	570	556	472	450	98	106
55 to 59 years	308	319	248	248	60	71
60 to 64 years	262	237	224	202	37	34
65 years and over	334	305	304	270	31	35

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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	
	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
	TOTAL	97,933	98,902	52,364	52,733	38,318	39,497	3,761	3,536	3,489	3,135
White-collar workers	51,329	52,271	23,315	23,617	25,557	26,429	602	612	1,855	1,613
Professional and technical	15,891	16,445	8,688	8,928	7,029	7,368	91	77	84	71
Health workers	2,909	3,095	942	1,006	1,952	2,071	4	11	11	8
Teachers, except college	3,378	3,386	1,000	979	2,355	2,387	5	8	18	11
Other professional and technical	9,604	9,964	6,746	6,943	2,722	2,910	82	58	55	52
Managers and administrators, except farm	11,013	11,411	8,070	8,244	2,827	3,048	44	57	72	62
Salaried workers	9,074	9,439	6,607	6,749	2,355	2,582	44	49	69	58
Self-employed workers in retail trade	857	802	560	528	296	266	1	3	--	5
Self-employed workers, except retail trade	1,081	1,171	903	966	176	200	--	5	3	--
Sales workers	6,304	6,262	3,180	3,185	2,459	2,499	213	208	452	370
Retail trade	3,217	3,173	981	978	1,664	1,690	148	160	424	344
Other industries	3,087	3,089	2,199	2,206	796	808	65	49	27	26
Clerical workers	18,121	18,153	3,377	3,261	13,242	13,514	254	270	1,247	1,109
Stenographers, typists, and secretaries	5,017	4,895	68	70	4,602	4,592	3	8	343	226
Other clerical workers	13,104	13,258	3,309	3,191	8,640	8,922	251	262	904	883
Blue-collar workers	30,841	30,531	23,077	22,986	5,403	5,498	2,016	1,760	346	286
Craft and kindred workers	12,595	12,233	11,333	11,123	729	726	487	360	46	24
Carpenters	1,221	1,030	1,152	980	12	11	53	36	4	4
Construction craft workers, except carpenters	2,752	2,634	2,579	2,480	46	51	124	99	3	4
Mechanics and repairers	3,341	3,224	3,106	3,049	47	58	187	117	1	--
Metal craft workers	1,228	1,221	1,148	1,154	56	36	21	30	4	1
Blue-collar worker supervisors, not elsewhere classified	1,709	1,708	1,475	1,522	218	176	18	6	--	3
All other	2,344	2,415	1,873	1,937	350	393	84	72	37	13
Operatives, except transport	10,418	10,370	5,688	5,666	3,995	4,028	519	502	216	174
Durable goods manufacturing	4,602	4,541	2,883	2,843	1,507	1,512	155	145	58	40
Nondurable goods manufacturing	3,252	3,282	1,269	1,238	1,808	1,868	80	104	96	71
Other industries	2,564	2,546	1,536	1,585	681	647	285	252	62	61
Transport equipment operatives	3,471	3,569	3,018	3,093	267	334	174	134	12	7
Drivers, motor vehicles	2,932	3,053	2,540	2,625	238	311	143	111	11	5
All other	538	516	478	467	28	23	31	23	--	3
Nonfarm laborers	4,358	4,359	3,037	3,104	413	410	836	765	72	81
Construction	768	765	607	654	26	10	133	95	2	5
Manufacturing	944	966	752	741	113	131	70	87	8	7
Other industries	2,647	2,629	1,678	1,709	274	268	633	582	61	70
Service workers	12,889	13,203	3,926	4,051	6,836	7,063	887	901	1,240	1,189
Private household workers	1,063	1,012	14	29	853	789	5	6	191	189
Service workers, except private household	11,826	12,191	3,912	4,021	5,983	6,274	882	895	1,049	1,000
Food service workers	4,512	4,766	877	933	2,289	2,466	594	630	751	736
Protective service workers	1,352	1,397	1,199	1,237	117	141	30	16	6	3
All other	5,962	6,028	1,836	1,851	3,577	3,667	258	249	292	261
Farm workers	2,873	2,897	2,047	2,079	522	507	256	263	48	47
Farmers and farm managers	1,583	1,545	1,393	1,349	163	172	25	22	1	2
Farm laborers and supervisors	1,291	1,352	654	731	359	335	231	241	47	45
Paid workers	930	1,065	616	692	110	145	171	198	33	30
Unpaid family workers	361	287	38	39	249	190	60	42	14	15

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

(Percent distribution)

Occupation and race	Total		Males		Females	
	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
TOTAL						
Total, 16 years and over (thousands)	97,933	98,902	56,125	56,269	41,807	42,633
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	52.4	52.9	42.6	43.1	65.6	65.8
Professional and technical	16.2	16.6	15.6	16.0	17.0	17.4
Managers and administrators, except farm	11.2	11.5	14.5	14.8	6.9	7.3
Sales workers	6.4	6.3	6.0	6.0	7.0	6.7
Clerical workers	18.5	18.4	6.5	6.3	34.7	34.3
Blue-collar workers	31.5	30.9	44.7	44.0	13.8	13.6
Craft and kindred workers	12.9	12.4	21.1	20.4	1.9	1.8
Operatives, except transport	10.6	10.5	11.1	11.0	10.1	9.9
Transport equipment operatives	3.5	3.6	5.7	5.7	.7	.8
Nonfarm laborers	4.4	4.4	6.9	6.9	1.2	1.2
Service workers	13.2	13.3	8.6	8.8	19.3	19.4
Private household workers	1.1	1.0	(1)	.1	2.5	2.3
Other service workers	12.1	12.3	8.5	8.7	16.8	17.1
Farm workers	2.9	2.9	4.1	4.2	1.4	1.3
Farmers and farm managers	1.6	1.6	2.5	2.4	.4	.4
Farm laborers and supervisors	1.3	1.4	1.6	1.7	1.0	.9
White						
Total, 16 years and over (thousands)	86,936	87,894	50,417	50,594	36,519	37,299
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	54.0	54.4	44.1	44.5	67.6	67.7
Professional and technical	16.6	16.9	16.2	16.4	17.3	17.6
Managers and administrators, except farm	12.0	12.3	15.3	15.6	7.4	7.7
Sales workers	6.9	6.7	6.5	6.4	7.4	7.2
Clerical workers	18.5	18.4	6.2	6.0	35.5	35.2
Blue-collar workers	30.9	30.3	43.8	43.1	13.0	12.8
Craft and kindred workers	13.3	12.8	21.5	20.9	1.9	1.8
Operatives, except transport	10.1	9.9	10.7	10.4	9.3	9.1
Transport equipment operatives	3.4	3.4	5.4	5.4	.7	.8
Nonfarm laborers	4.1	4.1	6.3	6.4	1.2	1.1
Service workers	12.0	12.2	7.7	8.0	17.9	18.0
Private household workers	.9	.8	(1)	(1)	2.0	1.9
Other service workers	11.1	11.4	7.7	8.0	15.9	16.2
Farm workers	3.1	3.1	4.3	4.4	1.5	1.4
Farmers and farm managers	1.8	1.7	2.7	2.7	.4	.4
Farm laborers and supervisors	1.4	1.4	1.6	1.7	1.0	1.0
Black and other						
Total, 16 years and over (thousands)	10,997	11,008	5,709	5,675	5,288	5,333
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	39.9	40.8	29.3	30.2	51.3	52.0
Professional and technical	13.0	14.1	10.9	12.1	15.3	16.3
Managers and administrators, except farm	5.5	5.6	7.3	6.8	3.6	4.4
Sales workers	3.1	3.1	2.4	2.8	3.8	3.4
Clerical workers	18.3	17.9	8.7	8.5	28.6	28.0
Blue-collar workers	36.2	35.7	52.5	51.6	18.7	18.8
Craft and kindred workers	9.7	8.8	17.4	15.8	1.5	1.2
Operatives, except transport	14.7	15.5	14.2	15.6	15.3	15.4
Transport equipment operatives	4.6	4.9	8.3	8.8	.7	.8
Nonfarm laborers	7.1	6.5	12.6	11.3	1.2	1.4
Service workers	22.5	22.1	16.0	15.9	29.5	28.8
Private household workers	2.9	2.7	.1	.2	6.0	5.3
Other service workers	19.6	19.5	15.9	15.7	23.5	23.4
Farm workers	1.4	1.4	2.2	2.4	.5	.4
Farmers and farm managers	.4	.3	.7	.4	.1	.2
Farm laborers and supervisors	1.0	1.1	1.5	1.9	.5	.3

¹ Less than 0.05 percent.

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

[In thousands]

Age and sex	October 1981								
	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	87,923	1,147	15,348	71,428	7,047	416	1,511	1,700	306
16 to 19 years	6,201	255	381	5,566	94	16	271	33	57
16 to 17 years	2,361	174	101	2,086	30	10	120	16	44
18 to 19 years	3,841	81	280	3,480	63	5	151	17	13
20 to 24 years	12,829	90	1,341	11,398	328	38	329	103	31
25 to 34 years	25,111	164	4,462	20,485	1,685	86	381	312	55
35 to 44 years	17,938	142	3,764	14,031	1,784	78	212	287	48
45 to 54 years	14,204	151	3,032	11,021	1,437	109	150	328	60
55 to 64 years	9,554	192	2,012	7,350	1,157	71	116	400	39
55 to 59 years	6,006	95	1,289	4,622	718	33	72	220	27
60 to 64 years	3,549	98	723	2,729	439	38	45	180	12
65 years and over	2,085	153	357	1,575	563	18	51	237	17
Males, 16 years and over	48,514	157	7,411	40,945	4,920	42	1,217	1,496	80
16 to 19 years	3,166	62	168	2,935	58	13	226	31	42
16 to 17 years	1,231	43	43	1,144	22	9	101	15	34
18 to 19 years	1,934	19	125	1,790	37	5	125	16	8
20 to 24 years	6,520	24	513	5,982	219	14	275	93	20
25 to 34 years	14,078	15	2,118	11,945	1,159	1	299	280	8
35 to 44 years	9,993	11	1,859	8,124	1,211	--	152	239	2
45 to 54 years	8,090	13	1,517	6,559	1,021	6	120	284	1
55 to 64 years	5,494	7	1,040	4,447	854	5	98	351	1
55 to 59 years	3,412	3	653	2,756	537	2	58	188	2
60 to 64 years	2,082	4	387	1,691	317	3	39	163	--
65 years and over	1,174	25	196	953	398	3	46	218	6
Females, 16 years and over	39,409	989	7,937	30,483	2,127	374	294	204	225
16 to 19 years	3,036	192	212	2,631	35	2	45	2	15
16 to 17 years	1,129	130	57	942	9	2	19	1	10
18 to 19 years	1,906	62	155	1,690	27	1	26	1	5
20 to 24 years	6,309	65	827	5,416	109	23	54	9	11
25 to 34 years	11,033	149	2,344	8,540	525	85	82	32	46
35 to 44 years	7,945	132	1,905	5,908	573	79	59	48	46
45 to 54 years	6,115	138	1,515	4,462	416	103	30	44	59
55 to 64 years	4,061	185	972	2,903	303	66	19	49	38
55 to 59 years	2,594	92	636	1,866	181	31	13	32	26
60 to 64 years	1,467	93	336	1,038	122	35	5	17	12
65 years and over	911	128	160	623	164	16	5	19	11

A-24. Employed persons by industry and occupation

[In thousands]

Industry	October 1981											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Agriculture	3,517	85	45	10	80	42	19	65	260	--	14	2,897
Mining	1,116	156	121	6	127	279	329	56	31	--	11	--
Construction	5,959	202	798	31	478	3,215	274	179	765	--	18	--
Manufacturing	21,476	2,545	1,699	531	2,782	4,014	7,823	777	966	--	339	--
Durable goods	13,064	1,807	1,001	203	1,692	2,681	4,541	385	570	--	184	--
Nondurable goods	8,412	738	697	329	1,091	1,333	3,282	392	396	--	154	--
Transportation and public utilities	6,670	658	727	109	1,484	1,387	154	1,515	442	--	194	--
Wholesale and retail trade	20,235	451	3,881	4,111	3,684	1,388	891	700	1,235	--	3,893	--
Wholesale trade	3,907	149	842	938	812	308	203	348	255	--	52	--
Retail trade	16,328	302	3,039	3,173	2,872	1,081	688	352	979	--	3,842	--
Finance, insurance, and real estate	5,883	389	1,150	1,289	2,612	99	8	6	52	--	278	--
Services	29,039	10,948	2,223	169	5,201	1,528	839	227	483	1,012	6,407	--
Private households	1,194	15	--	--	11	14	--	3	110	1,012	28	--
Other service industries	27,845	10,933	2,223	169	5,190	1,514	839	224	373	--	6,379	--
Public administration	5,007	1,010	768	6	1,705	281	31	43	126	--	1,038	--

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

(In thousands)

Reason not working and sex	All Industries		Nonagricultural industries					
			Total		Wage and salary workers ¹			
					Paid absences ²		Unpaid absences ²	
	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981
Total, 16 years and over	4,288	4,396	4,182	4,271	2,044	2,314	1,591	1,443
Vacation	1,879	2,061	1,854	2,028	1,354	1,553	306	319
Illness	1,429	1,336	1,402	1,305	535	586	743	614
Bad weather	40	116	31	93	--	--	--	--
Industrial dispute	92	46	89	46	--	--	--	--
All other reasons	848	837	805	799	155	175	542	511
Males, 16 years and over	2,347	2,499	2,260	2,402	1,170	1,398	753	664
Vacation	1,077	1,207	1,056	1,180	800	955	133	123
Illness	766	720	744	699	299	346	374	299
All other reasons ³	503	573	459	523	72	98	246	242
Females, 16 years and over	1,941	1,896	1,922	1,870	874	916	839	781
Vacation	802	855	798	848	553	598	174	196
Illness	663	616	658	606	237	239	369	315
All other reasons ³	476	425	466	414	84	79	296	270

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

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

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

Hours of work	October 1981					
	Thousands of persons			Percent distribution		
	All industries	Nonagri-cultural industries	Agri-culture	All industries	Nonagri-cultural industries	Agri-culture
Total, 16 years and over	94,506	91,114	3,392	100.0	100.0	100.0
1-34 hours	27,712	26,706	1,007	29.3	29.3	29.7
1-4 hours	764	709	55	.8	.8	1.6
5-14 hours	4,576	4,358	218	4.8	4.8	6.4
15-29 hours	12,077	11,581	497	12.8	12.7	14.6
30-34 hours	10,295	10,058	237	10.9	11.0	7.0
35 hours and over	66,793	64,409	2,386	70.7	70.7	70.3
35-39 hours	6,232	6,070	163	6.6	6.7	4.8
40 hours	37,291	36,783	508	39.5	40.4	15.0
41 hours and over	23,270	21,556	1,715	24.6	23.7	50.5
41 to 48 hours	9,020	8,801	220	9.5	9.7	6.5
49 to 59 hours	7,961	7,527	434	8.4	8.3	12.8
60 hours and over	6,289	5,228	1,061	6.7	5.7	31.3
Average hours, total at work	38.0	37.7	46.1	--	--	--
Average hours, workers on full-time schedules	42.5	42.1	54.4	--	--	--

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

(Numbers in thousands)

Reason for working less than 35 hours	October 1981					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over	27,712	11,208	16,504	26,706	10,827	15,878
Economic reasons	4,833	1,914	2,919	4,549	1,750	2,799
Sleek work	2,511	1,559	952	2,303	1,422	881
Material shortages or repairs to plant and equipment	69	69	--	65	65	--
New job started during week	185	185	--	170	170	--
Job terminated during week	102	102	--	95	95	--
Could find only part-time work	1,967	--	1,967	1,918	--	1,918
Other reasons	22,881	9,296	13,585	22,157	9,078	13,079
Does not want, or unavailable for, full-time work	11,502	--	11,502	11,097	--	11,097
Vacation	1,202	1,202	--	1,192	1,192	--
Illness	1,794	1,615	179	1,739	1,586	153
Bad weather	366	366	--	237	237	--
Industrial dispute	1	1	--	1	1	--
Legal or religious holiday	4,779	4,779	--	4,773	4,773	--
Full time for this job	1,320	--	1,320	1,298	--	1,298
All other reasons	1,916	1,331	585	1,821	1,288	533
Average hours:						
Economic reasons	22.0	24.4	20.5	22.1	24.6	20.5
Other reasons	22.6	28.4	18.6	22.7	28.5	18.7
Worked 30 to 34 hours:						
Economic reasons	1,592	890	702	1,503	839	664
Other reasons	8,703	6,466	2,237	8,555	6,372	2,183

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

(Numbers in thousands)

Industry	October 1981								Average hours, total at work	Average hours, workers on full-time schedules
	Full- or part-time status									
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules						
				Total	40 hours or less	41 to 48 hours	49 hours or more			
Total, 16 years and over ¹	91,114	4,549	13,079	73,486	51,930	8,801	12,755	37.7	42.1	
Wage and salary workers	84,123	4,026	11,748	68,349	49,532	8,221	10,596	37.5	41.7	
Construction	4,515	358	173	3,984	2,946	413	625	39.0	41.4	
Manufacturing	20,152	744	589	18,819	13,758	2,686	2,375	40.3	41.5	
Durable goods	12,235	290	227	11,718	8,653	1,577	1,488	40.9	41.6	
Nondurable goods	7,916	454	362	7,100	5,104	1,109	887	39.5	41.5	
Transportation and public utilities	5,960	199	457	5,304	3,821	616	867	39.8	42.1	
Wholesale and retail trade	17,554	1,202	4,568	11,784	7,624	1,754	2,406	35.5	43.0	
Finance, insurance, and real estate	5,157	122	501	4,534	3,549	416	569	37.8	40.2	
Service industries	25,020	1,321	5,168	18,531	13,766	1,794	2,971	35.5	41.4	
Private households	1,104	220	555	329	208	40	81	22.8	43.9	
All other industries	23,916	1,101	4,613	18,202	13,558	1,754	2,890	36.1	41.4	
Public administration	4,755	61	271	4,423	3,530	384	509	37.9	39.4	
Self-employed workers	6,577	500	1,159	4,918	2,269	559	2,090	40.0	47.4	
Unpaid family workers	414	24	172	218	127	21	70	34.5	44.6	

¹ Includes mining, not shown separately.

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

[Numbers in thousands]

Sex, age, race, and marital status	October 1981							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	91,114	4,549	13,079	73,486	51,930	21,556	37.7	42.1
16 to 21 years	10,999	958	4,475	5,566	4,364	1,202	29.1	40.7
16 to 19 years	6,172	528	3,406	2,238	1,759	479	25.2	40.4
16 to 17 years	2,354	105	1,993	256	214	42	17.6	38.1
18 to 19 years	3,818	423	1,412	1,983	1,546	437	29.8	40.7
20 years and over	84,942	4,021	9,674	71,247	50,171	21,076	38.6	42.1
20 to 24 years	12,797	920	2,018	9,859	7,477	2,382	36.3	41.1
25 years and over	72,145	3,101	7,655	61,389	42,696	18,693	39.0	42.3
25 to 44 years	44,876	1,937	3,998	38,941	26,830	12,111	39.5	42.4
45 to 64 years	24,834	1,065	2,483	21,286	15,060	6,226	39.1	42.1
65 years and over	2,434	99	1,175	1,160	803	357	29.4	42.7
Males, 16 years and over	51,074	1,970	3,916	45,188	28,785	16,403	40.7	43.5
16 to 21 years	5,603	416	2,093	3,094	2,252	842	30.7	41.6
16 to 19 years	3,158	229	1,650	1,279	948	331	26.6	41.2
16 to 17 years	1,234	56	1,005	173	142	31	18.7	38.3
18 to 19 years	1,924	172	645	1,107	807	300	31.6	41.7
20 years and over	47,916	1,741	2,266	43,909	27,836	16,073	41.6	43.6
20 to 24 years	6,576	384	830	5,362	3,671	1,691	38.4	42.6
25 years and over	41,341	1,358	1,435	38,548	24,169	14,379	42.1	43.7
25 to 44 years	25,468	871	420	24,177	14,853	9,324	42.9	44.0
45 to 64 years	14,431	435	388	13,608	8,798	4,810	42.0	43.3
65 years and over	1,442	51	627	764	518	246	30.8	42.8
Females, 16 years and over	40,040	2,580	9,163	28,297	23,145	5,152	33.9	39.8
16 to 21 years	5,396	542	2,382	2,472	2,112	360	27.4	39.5
16 to 19 years	3,014	299	1,756	959	811	148	23.7	39.3
16 to 17 years	1,120	48	988	84	72	12	16.4	37.8
18 to 19 years	1,894	251	767	876	739	137	28.0	39.5
20 years and over	37,025	2,280	7,408	27,337	22,332	5,005	34.7	39.8
20 to 24 years	6,221	536	1,188	4,497	3,806	691	34.0	39.3
25 years and over	30,804	1,745	6,220	22,839	18,525	4,314	34.8	39.8
25 to 44 years	19,408	1,065	3,577	14,766	11,978	2,788	35.1	39.8
45 to 64 years	10,403	630	2,094	7,679	6,264	1,415	35.0	40.0
65 years and over	992	48	548	396	285	111	27.4	42.4
RACE								
White	80,767	3,755	11,990	65,022	44,873	20,149	37.8	42.3
Males	45,813	1,638	3,572	40,603	25,158	15,445	41.0	43.7
Females	34,954	2,117	8,418	24,419	19,715	4,704	33.7	39.9
Black and other	10,347	794	1,089	8,464	7,057	1,407	36.7	40.3
Males	5,261	331	344	4,586	3,627	959	38.6	41.4
Females	5,086	463	745	3,878	3,430	448	34.8	39.1
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	34,821	972	1,143	32,706	20,191	12,515	42.5	43.9
Widowed, divorced, or separated	4,421	226	176	4,019	2,548	1,471	41.5	43.7
Single (never married)	11,832	772	2,597	8,463	6,045	2,418	35.3	42.0
Females, 16 years and over:								
Married, spouse present	22,215	1,239	5,379	15,597	12,928	2,669	33.9	39.6
Widowed, divorced, or separated	7,879	561	1,075	6,243	4,894	1,349	36.3	40.3
Single (never married)	9,946	780	2,709	6,457	5,323	1,134	31.9	39.6

HOUSEHOLD DATA

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

[Numbers in thousands]

Occupation and sex	October 1981								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	48 hours or more		
Total, 16 years and over	91,693	4,600	13,174	73,919	52,175	8,845	12,899	37.7	42.1
White-collar workers	50,113	1,548	7,170	41,395	28,604	4,583	8,208	38.2	42.2
Professional and technical	15,848	332	1,840	13,676	9,403	1,544	2,729	39.0	42.2
Managers and administrators, except farm	10,919	167	542	10,210	5,263	1,371	3,576	44.1	45.7
Sales workers	6,004	317	1,553	4,134	2,494	563	1,077	35.9	43.6
Clerical workers	17,342	734	3,235	13,373	11,442	1,105	826	34.6	39.0
Blue-collar workers	28,954	1,832	1,997	25,125	17,900	3,505	3,720	39.3	42.1
Craft and kindred workers	11,528	574	395	10,559	7,205	1,590	1,764	40.6	42.4
Operatives, except transport	9,893	669	525	8,699	6,709	1,100	890	39.0	41.2
Transport equipment operatives	3,379	185	326	2,868	1,684	438	746	41.0	44.8
Nonfarm laborers	4,154	404	751	2,999	2,303	377	319	34.7	40.7
Service workers	12,626	1,220	4,007	7,399	5,671	757	971	32.1	41.6
Private household	974	172	496	306	200	38	68	23.2	42.6
Other service workers	11,652	1,048	3,511	7,093	5,471	719	903	32.8	41.6
Males, 16 years and over	51,499	2,001	3,965	45,533	28,974	6,172	10,387	40.7	43.5
White-collar workers	23,302	407	1,534	21,361	12,257	2,761	6,343	42.4	44.5
Professional and technical	8,680	130	491	8,059	5,067	918	2,074	41.8	43.6
Managers and administrators, except farm	7,931	112	243	7,576	3,537	1,027	3,012	45.6	46.8
Sales workers	3,295	70	389	2,836	1,466	449	921	41.5	45.2
Clerical workers	3,397	95	412	2,890	2,185	368	337	37.2	40.5
Blue-collar workers	23,439	1,305	1,370	20,764	14,269	3,016	3,479	40.0	42.6
Craft and kindred workers	10,815	512	301	10,002	6,780	1,512	1,710	40.9	42.5
Operatives, except transport	5,895	295	252	5,348	3,849	756	743	40.4	42.3
Transport equipment operatives	3,048	142	174	2,732	1,585	416	731	42.4	45.0
Nonfarm laborers	3,681	357	642	2,682	2,056	331	295	34.9	40.8
Service workers	4,758	289	1,061	3,408	2,448	395	565	35.9	43.1
Private household	35	5	14	16	10	2	4	28.9	45.6
Other service workers	4,722	284	1,047	3,391	2,436	393	562	36.0	43.1
Females, 16 years and over	40,196	2,599	9,209	28,388	23,204	2,674	2,510	33.9	39.8
White-collar workers	26,812	1,142	5,636	20,034	16,347	1,822	1,865	34.6	39.7
Professional and technical	7,169	202	1,349	5,618	4,337	626	655	35.7	40.2
Managers and administrators, except farm	2,988	54	300	2,634	1,725	344	565	40.0	42.6
Sales workers	2,709	247	1,164	1,298	1,027	115	156	29.1	40.2
Clerical workers	13,946	639	2,824	10,483	9,257	737	489	38.0	38.6
Blue-collar workers	5,515	527	627	4,361	3,631	490	240	36.1	39.7
Craft and kindred workers	713	62	94	557	425	78	54	36.3	40.5
Operatives, except transport	3,998	374	272	3,352	2,861	343	148	36.9	39.5
Transport equipment operatives	331	43	152	136	99	22	15	28.6	40.7
Nonfarm laborers	473	47	109	317	247	46	24	33.9	40.2
Service workers	7,869	930	2,946	3,993	3,226	362	405	29.8	40.4
Private household	939	167	482	290	190	36	64	23.0	42.4
Other service workers	6,930	764	2,464	3,702	3,036	326	340	30.7	40.2

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

[Numbers in thousands]

Employment status	October 1981								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,207	3,666	3,541	5,967	3,044	2,923	1,241	623	618
Civilian labor force	1,075	554	521	1,006	530	476	70	24	46
Employed	911	471	440	875	459	416	35	12	23
Agriculture	97	79	18	96	78	18	1	1	--
Nonagricultural industries	814	392	422	779	380	398	35	12	23
Unemployed	165	83	82	131	71	59	34	11	23
Unemployment rate	15.4	15.0	15.7	13.0	13.4	12.4	(1)	(1)	(1)
Not in labor force	6,132	3,112	3,019	4,961	2,514	2,447	1,171	599	572
Keeping house	49	5	44	32	4	28	17	1	16
Going to school	5,955	3,037	2,918	4,822	2,457	2,365	1,133	580	553
Unable to work	5	3	3	2	1	1	3	1	2
All other reasons	122	68	54	105	52	53	17	16	1

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

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

Class of worker and occupation	October 1981					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	911	471	440	100.0	100.0	100.0
Nonagricultural industries	814	392	422	89.5	83.2	96.3
Wage and salary workers	721	331	390	79.3	70.3	89.0
Private household workers	287	78	209	31.6	16.6	47.7
Government workers	20	12	8	2.2	2.5	1.8
Other wage and salary workers	413	241	172	45.4	51.2	39.3
Self-employed workers	82	53	29	9.0	11.3	6.6
Unpaid family workers	11	8	3	1.2	1.7	.7
Agriculture	97	79	18	10.7	16.8	4.1
Wage and salary workers	51	44	7	5.6	9.3	1.6
Self-employed workers	7	7	--	.8	1.5	--
Unpaid family workers	38	28	10	4.2	5.9	2.3
OCCUPATION						
Total	911	471	440	100.0	100.0	100.0
White-collar workers	282	174	107	30.9	37.0	24.4
Professional and technical	14	7	7	1.5	1.5	1.6
Managers and administrators, except farm	4	4	--	.4	.9	--
Sales workers	217	157	59	23.8	33.4	13.5
Clerical workers	48	6	41	5.3	1.3	9.4
Blue-collar workers	133	124	9	14.6	26.4	2.1
Craft and kindred workers	7	6	--	.8	1.3	--
Operatives, except transport	23	18	4	2.5	3.8	.9
Transport equipment operatives	1	--	2	.1	--	.5
Nonfarm laborers	102	100	2	11.2	21.3	.5
Service workers	415	106	308	45.5	22.6	70.3
Private household workers	234	24	209	25.7	5.1	47.7
Other service workers	181	82	99	19.8	17.4	22.6
Farm workers	81	66	15	8.9	14.0	3.4
Farmers and farm managers	3	2	1	.3	.4	.2
Farm laborers and supervisors	78	64	14	8.6	13.6	3.2

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[Numbers in thousands]

Employment status, sex, and age	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
TOTAL													
Total noninstitutional population ¹	167,005	167,201	167,396	167,585	167,747	167,902	168,071	168,272	168,480	168,685	168,855	169,049	169,252
Armed Forces ¹	2,121	2,119	2,124	2,125	2,121	2,128	2,129	2,127	2,131	2,139	2,160	2,165	2,158
Civilian noninstitutional population ¹	164,884	165,082	165,272	165,460	165,627	165,774	165,941	166,145	166,349	166,546	166,695	166,884	167,095
Civilian labor force	105,167	105,285	105,067	105,543	105,681	106,177	106,722	107,406	106,176	106,464	106,602	106,236	106,736
Percent of civilian population	63.8	63.8	63.6	63.8	63.8	64.0	64.3	64.6	63.8	63.9	64.0	63.7	63.9
Employed	97,206	97,339	97,282	97,696	97,927	98,412	98,976	99,235	98,392	98,962	98,944	98,270	98,217
Percent of total population	58.2	58.2	58.1	58.3	58.4	58.6	58.9	59.0	58.4	58.7	58.6	58.1	58.0
Agriculture	3,319	3,340	3,394	3,403	3,281	3,276	3,463	3,353	3,265	3,258	3,370	3,310	3,337
Nonagricultural industries	93,887	93,999	93,888	94,294	94,646	95,136	95,513	95,882	95,127	95,704	95,574	94,959	94,880
Unemployed	7,961	7,946	7,785	7,847	7,754	7,764	7,746	8,171	7,784	7,502	7,657	7,966	8,520
Unemployment rate	7.6	7.5	7.4	7.4	7.3	7.3	7.3	7.6	7.3	7.0	7.2	7.5	8.0
Not in labor force	59,717	59,797	60,205	59,917	59,946	59,598	59,219	58,739	60,173	60,082	60,093	60,648	60,359
Males, 20 years and over													
Total noninstitutional population ¹	71,661	71,768	71,875	71,980	72,070	72,155	72,249	72,359	72,474	72,586	72,687	72,798	72,915
Civilian noninstitutional population ¹	69,987	70,095	70,198	70,320	70,413	70,481	70,574	70,687	70,788	70,894	70,978	71,086	71,208
Civilian labor force	55,495	55,539	55,470	55,443	55,445	55,816	56,013	56,395	55,876	55,957	56,045	56,063	56,100
Percent of civilian population	79.3	79.2	79.0	78.8	78.7	79.2	79.4	79.8	78.9	78.9	79.0	78.9	78.8
Employed	51,963	52,007	52,045	52,091	52,134	52,511	52,750	52,849	52,451	52,811	52,724	52,608	52,327
Percent of total population	72.5	72.5	72.4	72.4	72.3	72.8	73.0	73.0	72.4	72.8	72.5	72.3	71.8
Agriculture	2,351	2,372	2,331	2,378	2,289	2,296	2,409	2,349	2,320	2,329	2,402	2,343	2,388
Nonagricultural industries	49,612	49,635	49,714	49,713	49,844	50,215	50,342	50,500	50,131	50,482	50,323	50,264	49,939
Unemployed	3,532	3,532	3,425	3,352	3,312	3,305	3,262	3,546	3,425	3,147	3,321	3,455	3,773
Unemployment rate	6.4	6.4	6.2	6.0	6.0	5.9	5.8	6.3	6.1	5.6	5.9	6.2	6.7
Not in labor force	14,492	14,556	14,728	14,877	14,968	14,665	14,561	14,292	14,912	14,937	14,933	15,023	15,108
Females, 20 years and over													
Total noninstitutional population ¹	78,860	78,979	79,097	79,212	79,315	79,415	79,522	79,642	79,766	79,889	79,999	80,122	80,248
Civilian noninstitutional population ¹	78,723	78,842	78,959	79,071	79,175	79,271	79,377	79,498	79,617	79,739	79,848	79,968	80,095
Civilian labor force	40,486	40,629	40,570	40,942	41,090	41,293	41,481	41,852	41,743	41,879	41,857	41,395	41,911
Percent of civilian population	51.4	51.5	51.4	51.8	51.9	52.1	52.3	52.6	52.4	52.5	52.4	51.8	52.3
Employed	37,754	37,909	37,820	38,191	38,410	38,567	38,760	39,014	39,011	39,082	39,155	38,576	38,958
Percent of total population	47.9	48.0	47.8	48.2	48.4	48.6	48.7	49.0	48.9	48.9	48.9	48.1	48.5
Agriculture	576	574	665	621	615	606	603	583	562	575	601	603	583
Nonagricultural industries	37,178	37,335	37,155	37,570	37,794	37,961	38,157	38,431	38,449	38,507	38,554	37,973	38,376
Unemployed	2,732	2,720	2,750	2,750	2,680	2,725	2,721	2,838	2,731	2,797	2,701	2,819	2,953
Unemployment rate	6.7	6.7	6.8	6.7	6.5	6.6	6.6	6.8	6.5	6.7	6.5	6.8	7.0
Not in labor force	38,237	38,213	38,389	38,129	38,085	37,978	37,896	37,646	37,874	37,860	37,991	38,573	38,184
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,484	16,454	16,424	16,393	16,362	16,331	16,300	16,270	16,240	16,210	16,169	16,129	16,089
Civilian noninstitutional population ¹	16,174	16,145	16,114	16,069	16,039	16,022	15,991	15,961	15,944	15,913	15,869	15,831	15,792
Civilian labor force	9,186	9,117	9,027	9,158	9,146	9,068	9,228	9,159	8,558	8,628	8,700	8,778	8,724
Percent of civilian population	56.8	56.5	56.0	57.0	57.0	56.6	57.7	57.4	53.7	54.2	54.8	55.4	55.2
Employed	7,489	7,423	7,417	7,414	7,384	7,334	7,465	7,372	6,930	7,069	7,065	7,086	6,931
Percent of total population	45.4	45.1	45.2	45.2	45.1	44.9	45.8	45.3	42.7	43.6	43.7	43.9	43.1
Agriculture	392	394	398	404	376	374	451	421	383	354	368	364	366
Nonagricultural industries	7,097	7,029	7,019	7,010	7,008	6,960	7,014	6,951	6,547	6,715	6,697	6,722	6,565
Unemployed	1,697	1,694	1,610	1,744	1,762	1,734	1,763	1,787	1,628	1,559	1,635	1,692	1,793
Unemployment rate	18.5	18.6	17.8	19.0	19.3	19.1	19.1	19.5	19.0	18.1	18.8	19.3	20.6
Not in labor force	6,988	7,028	7,087	6,911	6,893	6,954	6,763	6,802	7,386	7,285	7,169	7,053	7,068

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

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Full- and part-time status	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
FULL TIME													
Total, 16 years and over:													
Civilian labor force	89,896	90,043	90,040	90,393	90,239	90,556	90,938	91,763	90,448	91,019	90,612	90,834	91,340
Employed	83,337	83,411	83,491	83,933	83,844	84,149	84,645	85,073	84,126	84,918	84,510	84,328	84,311
Unemployed	6,559	6,632	6,549	6,460	6,396	6,407	6,293	6,690	6,322	6,101	6,102	6,506	7,029
Unemployment rate	7.3	7.4	7.3	7.1	7.1	7.1	6.9	7.3	7.0	6.7	6.7	7.2	7.7
PART TIME													
Total, 16 years and over:													
Civilian labor force	15,284	15,250	15,023	15,166	15,410	15,504	15,805	15,693	15,780	15,446	15,925	15,334	15,401
Employed	13,893	13,938	13,798	13,775	14,005	14,108	14,376	14,171	14,325	14,008	14,376	13,867	13,938
Unemployed	1,391	1,312	1,225	1,390	1,405	1,396	1,429	1,522	1,455	1,439	1,549	1,467	1,463
Unemployment rate	9.1	8.6	8.2	9.2	9.1	9.0	9.0	9.7	9.2	9.3	9.7	9.6	9.5

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

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

(Numbers in thousands)

Race, sex, and age	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
WHITE													
Total, 16 years and over:													
Civilian labor force	92,516	92,562	92,383	92,832	93,035	93,313	93,860	94,506	93,464	93,767	93,789	93,355	93,845
Employed	86,371	86,409	86,377	86,620	86,940	87,291	87,791	88,083	87,500	87,979	88,046	87,329	87,344
Unemployed	6,145	6,153	6,006	6,213	6,095	6,022	6,069	6,422	5,964	5,787	5,743	6,026	6,501
Unemployment rate	6.6	6.6	6.5	6.7	6.6	6.5	6.5	6.8	6.4	6.2	6.1	6.5	6.9
Males, 20 years and over:													
Civilian labor force	49,461	49,481	49,449	49,426	49,420	49,695	49,947	50,227	49,878	49,952	49,898	49,888	49,932
Employed	46,660	46,684	46,728	46,704	46,757	47,030	47,330	47,427	47,217	47,501	47,338	47,231	46,983
Unemployed	2,801	2,797	2,721	2,722	2,664	2,664	2,618	2,799	2,661	2,451	2,561	2,657	2,949
Unemployment rate	5.7	5.7	5.5	5.5	5.4	5.4	5.2	5.6	5.3	4.9	5.1	5.3	5.9
Females, 20 years and over:													
Civilian labor force	34,883	34,972	34,910	35,313	35,423	35,529	35,727	36,149	35,980	36,106	36,047	35,643	36,180
Employed	32,845	32,944	32,858	33,180	33,421	33,539	33,679	33,987	33,935	34,011	34,087	33,603	33,990
Unemployed	2,038	2,028	2,052	2,133	2,002	1,990	2,048	2,162	2,045	2,095	1,960	2,040	2,190
Unemployment rate	5.8	5.8	5.9	6.0	5.7	5.6	5.7	6.0	5.7	5.8	5.4	5.7	6.1
Both sexes, 16 to 19 years:													
Civilian labor force	8,172	8,109	8,024	8,093	8,191	8,089	8,186	8,130	7,606	7,709	7,843	7,823	7,733
Employed	6,866	6,781	6,791	6,735	6,762	6,721	6,782	6,669	6,348	6,467	6,621	6,495	6,371
Unemployed	1,306	1,328	1,233	1,358	1,429	1,368	1,404	1,461	1,258	1,242	1,222	1,328	1,362
Unemployment rate	16.0	16.4	15.4	16.8	17.4	16.9	17.2	18.0	16.5	16.1	15.6	17.0	17.6
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	12,686	12,706	12,668	12,684	12,598	12,765	12,899	12,895	12,741	12,658	12,793	12,872	12,913
Employed	10,884	10,922	10,895	11,051	10,942	11,020	11,193	11,138	10,928	10,939	10,877	10,924	10,905
Unemployed	1,802	1,784	1,773	1,634	1,655	1,745	1,706	1,757	1,813	1,719	1,916	1,948	2,008
Unemployment rate	14.2	14.0	14.0	12.9	13.1	13.7	13.2	13.6	14.2	13.6	15.0	15.1	15.5
Males, 20 years and over:													
Civilian labor force	6,030	6,042	6,015	5,996	6,007	6,072	6,081	6,153	6,046	6,028	6,136	6,170	6,157
Employed	5,300	5,315	5,315	5,367	5,355	5,414	5,437	5,425	5,288	5,326	5,373	5,366	5,337
Unemployed	730	727	700	628	651	658	644	727	758	702	763	804	820
Unemployment rate	12.1	12.0	11.6	10.5	10.8	10.8	10.6	11.8	12.5	11.6	12.4	13.0	13.3
Females, 20 years and over:													
Civilian labor force	5,648	5,652	5,654	5,638	5,645	5,708	5,764	5,724	5,759	5,729	5,751	5,767	5,787
Employed	4,953	4,965	4,956	5,016	4,976	4,988	5,083	5,036	5,065	5,040	5,012	4,974	5,015
Unemployed	695	687	698	621	669	720	681	688	694	689	739	793	772
Unemployment rate	12.3	12.2	12.3	11.0	11.9	12.6	11.8	12.0	12.0	12.0	12.8	13.7	13.3
Both sexes, 16 to 19 years:													
Civilian labor force	1,008	1,012	999	1,051	946	985	1,054	1,018	936	901	906	935	970
Employed	631	642	624	667	611	618	673	676	575	573	492	584	554
Unemployed	377	370	375	384	335	367	381	342	361	328	414	351	416
Unemployment rate	37.4	36.6	37.5	36.5	35.4	37.3	36.1	33.6	38.6	36.4	45.7	37.5	42.9

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
CHARACTERISTIC													
Total (all civilian workers)	7.6	7.5	7.4	7.4	7.3	7.3	7.3	7.6	7.3	7.0	7.2	7.5	8.0
Males, 20 years and over	6.4	6.4	6.2	6.0	6.0	5.9	5.8	6.3	6.1	5.6	5.9	6.2	6.7
Females, 20 years and over	6.7	6.7	6.8	6.7	6.5	6.6	6.6	6.8	6.5	6.7	6.5	6.8	7.0
Both sexes, 16-19 years	18.5	18.6	17.8	19.0	19.3	19.1	19.1	19.5	19.0	18.1	18.8	19.3	20.5
White	6.6	6.6	6.5	6.7	6.6	6.5	6.5	6.8	6.4	6.2	6.1	6.5	6.3
Black and other	14.2	14.0	14.0	12.9	13.1	13.7	13.2	13.6	14.2	13.6	15.0	15.1	15.5
Married men, spouse present	4.6	4.4	4.3	4.2	4.1	4.1	3.8	4.1	4.2	3.9	3.9	4.3	4.7
Married women, spouse present	6.0	5.9	5.8	6.2	5.8	6.0	5.9	5.9	5.6	5.6	5.3	5.9	6.1
Women who maintain families	10.2	9.9	10.4	10.5	9.6	9.4	9.8	10.3	10.6	11.5	9.8	10.6	10.7
Full-time workers	7.3	7.4	7.3	7.1	7.1	7.1	6.9	7.3	7.0	6.7	6.7	7.2	7.7
Part-time workers	9.1	8.6	8.2	9.2	9.1	9.0	9.0	9.7	9.2	9.3	9.7	9.6	9.5
Unemployed 15 weeks and over ¹	2.2	2.2	2.3	2.2	2.1	2.1	2.0	2.0	2.2	2.0	2.1	2.1	2.1
Labor force time lost ²	8.4	8.3	8.2	8.2	8.1	8.1	8.2	8.6	8.0	7.9	7.9	8.5	9.3
OCCUPATION													
White-collar workers	3.9	3.9	4.0	3.9	3.7	3.9	4.0	4.1	3.8	4.1	3.9	4.1	4.1
Professional and technical	2.6	2.5	2.6	2.8	2.6	2.7	3.2	2.9	2.8	2.8	2.4	2.8	2.6
Managers and administrators, except farm	2.5	2.4	2.5	2.4	2.4	2.6	2.4	2.7	2.8	2.7	2.8	2.7	2.7
Sales workers	4.6	4.8	4.7	4.4	4.0	3.8	4.0	4.6	4.1	5.1	4.7	5.2	4.9
Clerical workers	5.6	5.6	5.8	5.7	5.3	5.9	5.6	5.6	5.3	5.7	5.6	5.7	6.1
Blue-collar workers	10.8	10.7	10.5	10.2	10.1	9.8	9.6	10.0	9.8	9.4	9.3	10.2	11.0
Craft and kindred workers	7.1	7.1	7.1	6.8	7.2	7.1	6.8	7.7	7.2	6.7	6.9	7.6	8.4
Operatives, except transport	13.2	13.0	12.9	12.1	11.9	11.3	11.5	11.9	11.0	11.1	11.0	11.5	12.8
Transport equipment operatives	10.6	10.6	8.8	9.1	8.3	9.3	8.1	8.2	8.4	6.9	7.9	8.9	7.9
Nonfarm laborers	15.3	15.0	14.8	15.0	14.9	14.1	13.8	13.1	14.8	14.2	12.9	14.4	15.7
Service workers	8.3	8.3	7.8	8.0	8.7	8.1	8.5	9.4	9.0	8.0	8.9	8.9	9.3
Farm workers	4.4	4.0	4.0	5.0	4.7	5.1	3.7	5.4	6.0	4.5	5.6	3.7	6.1
INDUSTRY													
Nonagricultural private wage and salary workers ³	7.8	7.8	7.7	7.5	7.5	7.3	7.2	7.8	7.4	7.2	7.2	7.6	8.1
Construction	14.6	14.8	13.8	13.3	13.2	14.7	14.4	16.3	16.6	15.0	16.7	16.3	18.0
Manufacturing	9.2	8.9	8.8	8.4	8.4	8.0	7.4	7.9	7.6	7.3	7.0	7.8	8.5
Durable goods	9.5	9.0	9.0	8.3	8.5	7.9	7.3	7.3	7.4	7.3	6.4	7.6	8.6
Nondurable goods	8.9	8.6	8.5	8.5	8.2	8.3	7.6	8.9	7.8	7.3	7.9	8.0	8.6
Transportation	5.3	4.9	4.9	5.8	5.5	6.4	5.7	5.9	4.7	4.0	4.8	4.0	4.3
Wholesale and retail trade	7.8	8.2	8.3	7.6	7.6	7.3	7.3	8.4	7.5	7.9	7.8	8.6	8.3
Finance and service industries	5.6	5.5	5.5	5.8	6.0	5.6	5.9	5.9	5.8	5.6	5.6	5.9	6.2
Government workers	4.4	4.2	4.1	4.4	4.3	4.6	4.9	4.8	4.5	4.5	4.4	4.6	5.6
Agricultural wage and salary workers	11.1	10.1	10.6	11.5	12.1	11.9	9.1	11.1	13.1	10.3	12.6	10.6	13.3

¹ Unemployment as a percent of the civilian labor force.

as a percent of potentially available labor force hours.

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

³ Includes mining, not shown separately.

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

(Numbers in thousands)

Weeks of unemployment	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
DURATION													
Less than 5 weeks	3,186	3,108	3,115	3,259	3,203	3,209	3,074	3,369	3,172	3,187	3,161	3,383	3,652
5 to 14 weeks	2,500	2,524	2,217	2,264	2,324	2,356	2,462	2,581	2,360	2,196	2,345	2,489	2,605
15 weeks and over	2,292	2,329	2,378	2,358	2,250	2,192	2,105	2,168	2,315	2,100	2,194	2,212	2,251
15 to 26 weeks	1,256	1,213	1,231	1,079	992	1,013	1,001	1,022	1,205	1,068	1,059	1,151	1,156
27 weeks and over	1,036	1,116	1,147	1,279	1,257	1,179	1,104	1,146	1,110	1,032	1,135	1,061	1,095
Average (mean) duration, in weeks	13.3	13.6	13.5	14.4	14.4	14.0	13.7	13.2	14.2	13.9	14.5	13.7	13.7
Median duration, in weeks	7.5	7.7	7.3	7.4	6.9	7.0	7.7	7.1	6.7	7.0	7.0	7.0	6.7
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	39.9	39.0	40.4	41.3	41.2	41.4	40.2	41.5	40.4	42.6	41.0	41.8	42.9
5 to 14 weeks	31.3	31.7	28.8	28.7	29.9	30.4	32.2	31.8	30.1	29.3	30.5	30.8	30.6
15 weeks and over	28.7	29.3	30.8	29.9	28.9	28.3	27.6	26.7	29.5	28.1	28.5	27.4	26.5
15 to 26 weeks	15.7	15.2	16.0	13.7	12.8	13.1	13.1	12.6	15.4	14.3	13.8	14.2	13.6
27 weeks and over	13.0	14.0	14.9	16.2	16.2	15.2	14.5	14.1	14.1	13.8	14.7	13.1	12.9

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

Sex and age	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over	7.6	7.5	7.4	7.4	7.3	7.3	7.3	7.6	7.3	7.0	7.2	7.5	8.0
16 to 19 years	18.5	18.6	17.8	19.0	19.3	19.1	19.1	19.5	19.0	18.1	18.8	19.3	20.6
16 to 17 years	20.9	21.4	19.9	21.0	21.4	21.3	22.0	21.6	22.6	19.3	20.5	21.2	21.4
18 to 19 years	16.7	16.5	16.4	17.5	17.9	17.7	17.2	18.2	17.3	17.7	17.4	18.1	19.9
20 to 24 years	12.3	12.1	11.7	11.9	11.8	11.7	12.1	12.9	12.1	11.3	11.8	12.1	12.8
25 years and over	5.4	5.4	5.3	5.3	5.1	5.2	5.0	5.3	5.2	5.1	5.1	5.4	5.8
25 to 54 years	5.9	5.9	5.8	5.7	5.5	5.5	5.4	5.6	5.6	5.4	5.4	5.8	6.1
55 years and over	3.4	3.3	3.5	3.5	3.6	3.7	3.3	3.3	3.4	3.5	3.5	3.8	3.9
Males, 16 years and over	7.4	7.4	7.2	7.2	7.1	7.0	6.9	7.4	7.1	6.6	7.0	7.2	7.7
16 to 19 years	19.8	19.8	19.0	20.3	20.1	19.5	19.3	20.2	19.8	18.4	19.7	19.3	19.7
16 to 17 years	21.8	22.3	20.5	23.0	22.1	21.1	22.7	22.7	24.4	19.8	21.5	21.2	20.6
18 to 19 years	18.1	17.8	17.8	18.5	18.7	18.6	17.0	18.3	18.1	17.8	18.1	18.1	19.1
20 to 24 years	13.8	13.2	12.5	12.8	12.7	13.0	13.2	14.2	12.8	11.3	12.7	12.9	13.9
25 years and over	5.1	5.1	4.9	4.9	4.8	4.7	4.6	4.8	5.0	4.7	4.8	5.0	5.5
25 to 54 years	5.6	5.6	5.4	5.2	5.2	5.1	4.9	5.1	5.3	4.9	5.0	5.5	5.9
55 years and over	3.3	3.3	3.3	3.4	3.4	3.2	3.1	3.4	3.5	3.4	3.4	3.5	3.8
Females, 16 years and over	7.7	7.7	7.7	7.7	7.6	7.7	7.7	7.9	7.6	7.7	7.5	7.9	8.3
16 to 19 years	17.0	17.2	16.5	17.5	18.4	18.7	18.9	18.7	18.2	17.7	17.8	19.3	21.5
16 to 17 years	19.8	20.3	19.3	18.7	20.5	21.6	21.1	20.4	20.6	18.7	19.5	21.1	22.4
18 to 19 years	15.1	15.1	14.8	16.4	17.0	16.5	17.4	18.2	16.4	17.5	16.8	18.1	20.8
20 to 24 years	10.6	10.8	10.8	10.8	10.8	10.1	10.9	11.4	11.2	11.3	10.8	11.2	11.5
25 years and over	5.9	5.8	5.9	5.8	5.6	5.9	5.6	5.9	5.6	5.7	5.5	5.9	6.1
25 to 54 years	6.4	6.2	6.3	6.3	5.9	6.2	6.0	6.4	6.0	6.1	5.9	6.3	6.5
55 years and over	3.4	3.4	3.9	3.6	3.9	4.5	3.7	3.3	3.3	3.7	3.6	4.4	4.1

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

[Numbers in thousands]

Reason for unemployment	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	4,240	4,229	4,226	3,847	3,896	3,846	3,819	4,084	4,219	3,691	3,929	4,338	4,422
On layoff	1,692	1,453	1,470	1,258	1,267	1,299	1,280	1,368	1,367	1,178	1,205	1,412	1,607
Other job losers	2,548	2,776	2,756	2,590	2,629	2,547	2,539	2,715	2,852	2,513	2,724	2,925	2,815
Job leavers	870	897	813	907	884	863	854	1,009	863	898	838	889	962
Reentrants	2,013	1,896	1,869	2,039	1,970	2,040	2,017	2,126	1,955	2,022	1,939	1,949	2,172
New entrants	880	890	868	1,000	928	986	987	938	956	873	944	953	987
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	53.0	53.5	54.3	49.4	50.7	49.7	49.7	50.1	52.8	49.3	51.4	53.4	51.8
On layoff	21.1	18.4	18.9	16.1	16.5	16.8	16.7	16.8	17.1	15.7	15.7	17.4	18.8
Other job losers	31.8	35.1	35.4	33.2	34.2	32.9	33.1	33.3	35.7	33.6	35.6	36.0	33.0
Job leavers	10.9	11.3	10.5	11.6	11.5	11.2	11.1	12.4	10.8	12.0	11.0	10.9	11.3
Reentrants	25.2	24.0	24.0	26.2	25.7	26.4	26.3	26.1	24.5	27.0	25.4	24.0	25.4
New entrants	11.0	11.2	11.2	12.8	12.1	12.7	12.9	11.5	12.0	11.7	12.3	11.7	11.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	4.0	4.0	4.0	3.6	3.7	3.6	3.6	3.8	4.0	3.5	3.7	4.1	4.1
On layoff	.8	.9	.8	.9	.8	.8	.8	.9	.8	.8	.8	.8	.9
Other job losers	1.9	1.8	1.8	1.9	1.9	1.9	1.9	2.0	1.8	1.9	1.8	1.8	2.0
Job leavers	.8	.8	.8	.9	.9	.9	.9	.9	.9	.8	.9	.9	.9

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over	97,206	97,339	97,282	97,696	97,927	98,412	98,976	99,235	98,392	98,962	98,944	98,270	98,217
16 to 19 years	7,489	7,423	7,417	7,414	7,384	7,334	7,465	7,372	6,930	7,069	7,065	7,086	6,931
16 to 17 years	2,963	2,916	2,906	2,937	2,927	2,908	2,964	2,893	2,616	2,746	2,766	2,791	2,688
18 to 19 years	4,535	4,525	4,506	4,467	4,441	4,411	4,487	4,464	4,281	4,287	4,315	4,329	4,234
20 to 24 years	13,594	13,593	13,633	13,725	13,661	13,684	13,711	13,704	13,576	13,815	13,743	13,615	13,608
25 years and over	76,150	76,231	76,242	76,611	76,847	77,367	77,735	78,151	77,980	78,120	78,090	77,546	77,720
25 to 54 years	61,916	62,110	62,142	62,482	62,676	63,019	63,423	63,701	63,611	63,803	63,882	63,461	63,580
55 years and over	14,216	14,159	14,095	14,108	14,186	14,314	14,360	14,447	14,319	14,312	14,242	14,090	14,101
Males, 16 years and over	55,881	55,897	55,920	56,012	56,045	56,383	56,688	56,718	56,026	56,494	56,368	56,349	56,046
16 to 19 years	3,918	3,890	3,875	3,921	3,912	3,872	3,937	3,869	3,575	3,684	3,643	3,742	3,719
16 to 17 years	1,588	1,564	1,555	1,562	1,581	1,545	1,551	1,500	1,354	1,443	1,441	1,515	1,495
18 to 19 years	2,339	2,330	2,317	2,347	2,323	2,321	2,373	2,367	2,203	2,226	2,219	2,260	2,218
20 to 24 years	7,174	7,190	7,245	7,253	7,223	7,239	7,238	7,239	7,179	7,392	7,293	7,260	7,164
25 years and over	44,803	44,791	44,806	44,862	44,896	45,266	45,464	45,563	45,309	45,425	45,448	45,323	45,196
25 to 54 years	36,076	36,128	36,131	36,204	36,206	36,488	36,707	36,840	36,676	36,773	36,851	36,788	36,635
55 years and over	8,677	8,670	8,682	8,645	8,693	8,758	8,780	8,760	8,634	8,661	8,592	8,554	8,511
Females, 16 years and over	41,325	41,442	41,362	41,684	41,882	42,029	42,288	42,517	42,366	42,467	42,577	41,920	42,171
16 to 19 years	3,571	3,533	3,542	3,493	3,472	3,462	3,528	3,503	3,355	3,385	3,421	3,344	3,212
16 to 17 years	1,375	1,352	1,351	1,375	1,346	1,363	1,413	1,393	1,262	1,303	1,325	1,276	1,193
18 to 19 years	2,196	2,195	2,189	2,120	2,118	2,090	2,114	2,097	2,078	2,061	2,096	2,069	2,016
20 to 24 years	6,420	6,403	6,388	6,472	6,438	6,444	6,473	6,464	6,397	6,424	6,450	6,355	6,444
25 years and over	31,347	31,440	31,436	31,749	31,950	32,101	32,271	32,588	32,671	32,695	32,642	32,223	32,524
25 to 54 years	25,840	25,982	26,011	26,278	26,471	26,532	26,715	26,861	26,934	27,030	27,032	26,673	26,945
55 years and over	5,539	5,489	5,413	5,463	5,493	5,556	5,580	5,687	5,686	5,651	5,650	5,536	5,590

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

[In thousands]

Sex and age	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over	7,961	7,946	7,785	7,847	7,754	7,764	7,746	8,171	7,784	7,502	7,657	7,966	8,520
16 to 19 years	1,697	1,694	1,610	1,744	1,762	1,734	1,763	1,787	1,628	1,559	1,635	1,692	1,793
16 to 17 years	781	794	723	783	796	789	834	798	766	656	715	749	732
18 to 19 years	909	893	881	949	967	946	929	995	894	919	912	954	1,053
20 to 24 years	1,913	1,873	1,809	1,845	1,831	1,810	1,890	2,032	1,866	1,759	1,844	1,877	1,992
25 years and over	4,368	4,342	4,302	4,269	4,171	4,233	4,101	4,343	4,313	4,203	4,160	4,418	4,743
25 to 54 years	3,885	3,874	3,835	3,766	3,647	3,683	3,587	3,810	3,768	3,642	3,640	3,906	4,163
55 years and over	494	489	512	507	528	552	496	499	505	523	512	561	578
Males, 16 years and over	4,498	4,491	4,334	4,353	4,293	4,245	4,205	4,527	4,309	3,979	4,216	4,349	4,688
16 to 19 years	966	959	909	1,001	981	940	943	981	884	832	895	894	915
16 to 17 years	442	450	400	466	449	414	455	440	438	356	395	407	388
18 to 19 years	518	504	501	533	534	532	485	529	486	481	489	498	523
20 to 24 years	1,150	1,095	1,032	1,061	1,052	1,085	1,097	1,198	1,056	940	1,063	1,074	1,158
25 years and over	2,398	2,406	2,324	2,306	2,283	2,235	2,175	2,312	2,383	2,220	2,270	2,395	2,624
25 to 54 years	2,121	2,149	2,073	1,992	1,977	1,942	1,874	1,962	2,039	1,898	1,959	2,126	2,295
55 years and over	300	293	292	306	303	293	280	306	313	306	300	308	339
Females, 16 years and over	3,463	3,455	3,451	3,493	3,461	3,519	3,541	3,644	3,475	3,524	3,441	3,617	3,831
16 to 19 years	731	735	701	743	781	794	820	806	744	727	740	798	878
16 to 17 years	339	344	323	317	347	375	379	358	328	300	320	342	344
18 to 19 years	391	389	380	416	433	414	444	466	408	438	423	456	530
20 to 24 years	763	778	777	785	779	726	793	833	810	818	781	803	834
25 years and over	1,970	1,936	1,978	1,962	1,887	1,998	1,926	2,031	1,930	1,983	1,890	2,023	2,120
25 to 54 years	1,764	1,725	1,762	1,774	1,670	1,741	1,712	1,849	1,730	1,744	1,681	1,780	1,868
55 years and over	194	196	220	201	225	259	216	193	191	217	212	253	239

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Category	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
CHARACTERISTIC													
Total, 16 years and over	97,206	97,339	97,282	97,696	97,927	98,412	98,976	99,235	98,392	98,962	98,944	98,270	98,217
Married men, spouse present	38,142	38,167	38,231	38,182	38,113	38,365	38,510	38,498	38,216	38,283	38,315	38,169	38,059
Married women, spouse present	22,993	23,065	23,063	23,352	23,356	23,513	23,529	23,831	23,763	23,820	23,683	23,174	23,399
OCCUPATION													
White-collar workers	51,101	51,148	51,065	51,594	51,698	51,746	51,801	51,967	51,959	51,857	52,123	51,826	52,104
Professional and technical	15,780	15,863	15,810	15,965	15,813	15,827	15,754	15,688	16,057	15,966	16,299	16,254	16,347
Managers and administrators, except farm	10,979	11,016	11,009	11,363	11,488	11,565	11,444	11,260	11,174	11,418	11,217	11,341	11,434
Sales workers	6,277	6,155	6,175	6,265	6,271	6,220	6,145	6,461	6,440	6,220	6,369	6,295	6,225
Clerical workers	18,065	18,114	18,071	18,001	18,125	18,135	18,457	18,557	18,288	18,254	18,238	17,937	18,099
Blue-collar workers	30,521	30,550	30,373	30,338	30,446	30,594	31,156	31,373	30,922	31,038	31,113	30,637	30,222
Craft and kindred workers	12,485	12,424	12,337	12,306	12,386	12,605	12,624	12,743	12,482	12,575	12,508	12,202	12,124
Operatives, except transport equipment	10,210	10,247	10,194	10,331	10,390	10,189	10,524	10,609	10,550	10,567	10,501	10,334	10,187
Transport equipment operatives	3,443	3,429	3,402	3,322	3,361	3,363	3,411	3,390	3,425	3,481	3,499	3,453	3,530
Nonfarm laborers	4,383	4,450	4,440	4,380	4,309	4,437	4,596	4,632	4,466	4,415	4,605	4,649	4,381
Service workers	12,891	12,888	12,982	12,946	13,070	13,279	13,255	13,213	12,930	13,284	13,002	13,093	13,231
Farm workers	2,735	2,729	2,804	2,737	2,662	2,679	2,834	2,707	2,648	2,689	2,732	2,717	2,752
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,363	1,417	1,411	1,465	1,336	1,338	1,524	1,464	1,377	1,457	1,472	1,416	1,470
Self-employed workers	1,640	1,612	1,655	1,615	1,610	1,615	1,648	1,644	1,657	1,568	1,629	1,649	1,616
Unpaid family workers	325	324	305	284	325	312	290	231	258	235	250	254	264
Nonagricultural industries:													
Wage and salary workers	86,587	86,643	86,513	87,125	87,236	87,870	88,195	88,877	87,734	88,291	88,189	87,457	87,556
Government	15,597	15,651	15,653	15,738	15,589	15,685	15,628	15,512	15,460	15,349	15,140	15,111	15,151
Private industries	70,990	70,992	70,860	71,387	71,647	72,185	72,567	73,365	72,274	72,942	73,048	72,346	72,405
Private households	1,144	1,148	1,110	1,197	1,176	1,235	1,241	1,164	1,146	1,211	1,236	1,052	1,114
Other industries	69,846	69,844	69,750	70,190	70,471	70,949	71,327	72,201	71,128	71,731	71,812	71,294	71,291
Self-employed workers	7,005	6,943	6,973	6,839	6,923	6,896	7,021	6,761	7,005	6,886	6,942	7,093	7,033
Unpaid family workers	417	405	396	422	371	354	306	338	369	389	378	392	448
PERSONS AT WORK¹													
Nonagricultural industries	88,488	88,694	88,468	89,499	89,441	89,583	89,202	89,870	89,625	90,837	89,823	88,886	89,448
Full-time schedules	72,071	72,265	72,131	72,807	72,945	72,875	72,761	73,375	73,115	74,232	72,932	72,192	72,187
Part-time for economic reasons	4,220	4,176	4,218	4,474	4,145	4,227	4,044	4,143	3,798	4,225	4,187	4,537	5,026
Usually work full-time	1,685	1,620	1,647	1,698	1,622	1,638	1,517	1,630	1,367	1,632	1,654	1,675	2,023
Usually work part-time	2,535	2,556	2,571	2,776	2,523	2,589	2,527	2,513	2,431	2,593	2,533	2,862	3,003
Part time for noneconomic reasons	12,197	12,253	12,119	12,218	12,351	12,481	12,397	12,352	12,713	12,380	12,704	12,157	12,235

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	
Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	Oct. 1980	Oct. 1981	
VETERANS										
Total, 25 years and over	8,368	8,616	7,953	8,180	7,548	7,678	405	502	5.1	6.1
25 to 29 years	7,318	7,314	7,030	7,044	6,655	6,589	375	455	5.3	6.5
25 to 29 years	1,640	1,421	1,545	1,342	1,396	1,198	149	144	9.6	10.7
30 to 34 years	3,555	3,231	3,435	3,109	3,275	2,933	160	176	4.7	5.7
35 to 39 years	2,123	2,662	2,050	2,593	1,984	2,458	66	135	3.2	5.2
40 years and over	1,050	1,302	923	1,136	893	1,089	30	47	3.3	4.1
NONVETERANS										
Total, 25 to 39 years	15,734	16,614	15,006	15,768	14,145	14,847	861	921	5.7	5.8
25 to 29 years	7,204	7,490	6,828	7,059	6,328	6,550	500	509	7.3	7.2
30 to 34 years	4,738	5,379	4,534	5,148	4,301	4,890	233	258	5.1	5.0
35 to 39 years	3,792	3,745	3,644	3,561	3,516	3,407	128	154	3.5	4.3

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

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

ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

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

(In thousands)

Year and month	Goods-producing					Service-producing									
	Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government			
							Total	Wholesale trade	Retail trade			Total	Federal	State and local	
Annual averages															
1930.....	29,409	11,958	1,009	1,387	9,562	17,451	3,685	5,797	-	-	1,460	3,361	3,148	526	2,622
1931.....	26,635	10,272	873	1,229	8,170	16,363	3,254	5,284	-	-	1,392	3,169	3,264	560	2,704
1932.....	23,615	8,647	731	985	6,931	14,968	2,816	4,683	-	-	1,326	2,918	3,225	559	2,666
1933.....	23,699	8,965	744	824	7,397	14,734	2,672	4,755	-	-	1,280	2,861	3,166	565	2,601
1934.....	25,940	10,261	883	877	8,501	15,679	2,750	5,281	-	-	1,304	3,045	3,299	652	2,647
1935.....	27,039	10,893	897	927	9,069	16,146	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728
1936.....	29,068	11,933	946	1,160	9,827	17,135	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842
1937.....	31,011	12,936	1,015	1,127	10,794	18,075	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923
1938.....	29,194	11,401	891	1,070	9,440	17,793	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054
1939.....	30,603	12,297	854	1,165	10,278	18,306	2,936	6,426	1,762	4,664	1,447	3,502	3,995	905	3,090
1940.....	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206
1941.....	36,539	15,963	957	1,814	13,192	20,574	3,274	7,210	1,960	5,251	1,525	3,905	4,660	1,340	3,320
1942.....	40,106	18,470	992	2,198	15,280	21,636	3,460	7,118	1,906	5,212	1,509	4,066	5,483	2,213	3,270
1943.....	42,434	20,114	925	1,587	17,602	22,320	3,647	6,982	1,822	5,160	1,481	4,130	6,080	2,905	3,175
1944.....	41,864	19,328	892	1,108	17,328	22,536	3,829	7,058	1,845	5,214	1,461	4,145	6,043	2,928	3,116
1945.....	40,374	17,507	836	1,147	15,524	22,867	3,906	7,314	1,949	5,365	1,481	4,222	5,944	2,808	3,137
1946.....	41,652	17,248	862	1,683	14,703	24,404	4,061	8,376	2,291	6,084	1,675	4,697	5,595	2,254	3,341
1947.....	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,485	1,728	5,025	5,474	1,892	3,582
1948.....	44,866	18,774	994	2,198	15,582	26,092	4,189	9,272	2,605	6,667	1,800	5,181	5,650	1,863	3,787
1949.....	43,754	17,565	930	2,194	14,441	26,189	4,001	9,264	2,602	6,662	1,828	5,240	5,856	1,908	3,948
1950.....	45,197	18,506	901	2,364	15,241	26,691	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098
1951.....	47,819	19,959	929	2,637	16,393	27,860	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,087
1952.....	48,793	20,198	898	2,668	16,632	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188
1953.....	50,202	21,074	866	2,659	17,549	29,128	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340
1954.....	48,990	19,751	791	2,646	16,314	29,239	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563
1955.....	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,610	2,298	6,240	6,914	2,187	4,727
1956.....	52,369	21,104	822	3,039	17,243	31,266	4,244	10,858	3,018	7,840	2,389	6,497	7,278	2,209	5,069
1957.....	52,859	20,964	828	2,962	17,174	31,889	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399
1958.....	51,324	19,513	751	2,817	15,945	31,811	3,976	10,750	2,980	7,770	2,481	6,765	7,839	2,191	5,648
1959 ¹	53,268	20,411	732	3,004	16,675	32,857	4,011	11,127	3,082	8,045	2,549	7,087	8,083	2,233	5,850
1960.....	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083
1961.....	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315
1962.....	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963.....	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868
1964.....	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965.....	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966.....	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967.....	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968.....	67,897	23,737	606	3,350	19,781	44,160	4,318	14,099	3,729	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.....	82,471	24,346	813	3,851	19,682	58,125	4,713	18,516	4,708	13,808	4,467	15,303	15,127	2,727	12,399
1978.....	86,697	25,585	851	4,229	20,505	61,113	4,923	19,542	4,969	14,573	4,724	16,252	15,672	2,753	12,919
1979.....	89,823	26,461	958	4,463	21,040	63,363	5,136	20,192	5,204	14,989	4,975	17,112	15,947	2,773	13,174
1980.....	90,564	25,718	1,020	4,399	20,300	64,847	5,143	20,386	5,281	15,104	5,168	17,901	16,249	2,866	13,383
Monthly data, seasonally adjusted															
1980:															
October.....	90,668	25,521	1,032	4,379	20,110	65,147	5,129	20,461	5,296	15,165	5,221	18,087	16,249	2,795	13,454
November....	90,844	25,629	1,052	4,389	20,188	65,215	5,114	20,464	5,296	15,168	5,235	18,160	16,242	2,796	13,446
December....	90,949	25,631	1,069	4,387	20,175	65,318	5,118	20,470	5,300	15,170	5,254	18,240	16,236	2,800	13,436
1981:															
January.....	91,091	25,647	1,083	4,390	20,174	65,444	5,124	20,529	5,305	15,224	5,268	18,300	16,223	2,799	13,424
February....	91,258	25,657	1,091	4,389	20,177	65,601	5,135	20,600	5,313	15,287	5,283	18,343	16,240	2,795	13,445
March.....	91,347	25,705	1,098	4,416	20,191	65,642	5,139	20,635	5,316	15,319	5,293	18,371	16,204	2,781	13,423
April.....	91,458	25,700	950	4,418	20,332	65,758	5,161	20,636	5,333	15,303	5,316	18,475	16,170	2,767	13,403
May.....	91,564	25,705	957	4,334	20,414	65,859	5,148	20,714	5,346	15,368	5,326	18,540	16,131	2,779	13,352
June.....	91,615	25,818	1,110	4,284	20,424	65,797	5,149	20,717	5,349	15,368	5,331	18,560	16,040	2,781	13,259
July.....	91,880	25,939	1,132	4,272	20,535	65,941	5,167	20,796	5,360	15,436	5,344	18,642	15,992	2,777	13,215
August.....	91,901	25,931	1,151	4,275	20,505	65,970	5,170	20,862	5,375	15,487	5,354	18,667	15,917	2,770	13,147
September..P	91,948	25,925	1,157	4,268	20,500	66,023	5,191	20,879	5,369	15,510	5,358	18,791	15,804	2,771	13,033
October..P..	91,743	25,632	1,158												

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
-	TOTAL	90,638	91,244	91,598	92,079	92,332	-	-	-	-	-
-	PRIVATE SECTOR	74,797	74,913	76,450	76,618	76,430	60,855	60,948	62,018	62,202	62,044
-	MINING	1,030	1,034	1,169	1,164	1,160	765	767	862	860	854
10	METAL MINING	86.1	86.3	103.5	101.1	-	64.5	64.6	77.6	76.1	-
101	Iron ores	19.6	19.2	22.4	21.7	-	14.9	14.5	17.3	16.7	-
102	Copper ores	20.4	21.9	36.4	36.1	-	15.8	17.0	28.0	27.9	-
11, 12	COAL MINING	247.5	246.4	256.0	259.1	-	204.7	203.3	211.4	215.0	-
12	BITUMINOUS COAL AND LIGNITE MINING	244.1	243.0	252.5	255.6	-	201.6	200.2	208.3	211.9	-
13	OIL AND GAS EXTRACTION	571.7	577.5	687.3	681.9	-	397.9	402.6	478.8	474.4	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	229.8	231.5	269.2	263.3	-	104.7	104.6	118.9	114.7	-
138	Oil and gas field services	341.9	346.0	418.1	418.6	-	293.2	298.0	359.9	359.7	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	124.6	123.7	122.5	121.8	-	97.6	96.6	94.4	94.0	-
142	Crushed and broken stone	39.8	39.3	37.5	37.2	-	33.3	32.8	30.8	30.5	-
144	Sand and gravel	37.3	37.2	36.0	35.9	-	-	-	-	-	-
147	Chemical and fertilizer minerals	26.8	26.7	27.4	27.2	-	-	-	-	-	-
-	CONSTRUCTION	4,613	4,619	4,579	4,511	4,483	3,661	3,665	3,603	3,544	3,514
15	GENERAL BUILDING CONTRACTORS	1,263.4	1,268.7	1,245.4	1,221.7	-	977.4	980.4	949.9	931.2	-
152	Residential building construction	622.8	631.8	629.4	618.6	-	464.9	473.4	463.5	455.0	-
153	Operative builders	64.4	64.6	61.1	58.9	-	38.0	37.9	34.2	33.3	-
154	Nonresidential building construction	576.2	572.3	554.9	544.2	-	474.5	469.1	452.2	442.9	-
16	HEAVY CONSTRUCTION CONTRACTORS	997.6	986.7	958.7	949.2	-	810.5	798.7	781.7	773.5	-
181	Highway and street construction	309.9	299.0	273.4	264.8	-	268.6	258.3	233.3	225.2	-
182	Heavy construction, except highway	687.7	687.7	685.3	684.4	-	541.9	540.4	548.4	548.3	-
17	SPECIAL TRADE CONTRACTORS	2,351.5	2,363.3	2,374.5	2,339.9	-	1,873.2	1,885.5	1,871.1	1,839.5	-
171	Plumbing, heating, air conditioning	552.1	555.8	560.5	554.5	-	415.9	419.8	415.7	411.6	-
172	Painting, paper hanging, decorating	150.3	151.6	156.9	151.2	-	128.1	129.0	131.4	126.5	-
173	Electrical work	423.4	423.1	426.7	424.8	-	331.3	329.8	330.2	328.7	-
174	Masonry, stonework, and plastering	374.0	377.8	377.9	372.5	-	322.7	326.6	323.0	318.2	-
175	Carpentering and flooring	128.6	129.6	135.2	131.9	-	97.9	98.7	102.7	98.4	-
178	Roofing and sheet metal work	179.7	182.3	180.8	180.1	-	147.3	149.7	147.5	146.5	-
-	MANUFACTURING	20,212	20,235	20,473	20,608	20,350	14,131	14,141	14,230	14,391	14,150
24, 25, 32-39	DURABLE GOODS	11,990	12,061	12,188	12,294	12,174	8,244	8,304	8,323	8,446	8,331
20-23, 26-31	NONDURABLE GOODS	8,222	8,174	8,285	8,314	8,176	5,887	5,837	5,907	5,945	5,819
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	693.6	691.4	701.5	690.2	673.2	580.2	578.0	585.6	575.0	558.8
241	Logging camps and logging contractors	89.2	87.0	88.0	90.1	-	72.7	70.4	69.6	71.7	-
242	Sawmills and planing mills	214.6	211.9	215.8	209.0	-	189.7	187.7	191.2	184.8	-
2421	Sawmills and planing mills, general	180.5	177.2	180.0	173.7	-	159.9	157.3	159.9	154.1	-
2428	Hardwood dimension and flooring	28.8	29.4	30.9	30.3	-	24.9	25.5	26.9	26.2	-
243	Millwork, plywood, and structural members	204.6	205.0	204.9	201.2	-	168.6	168.4	169.1	165.6	-
2431	Millwork	71.4	71.2	71.9	71.0	-	57.4	57.3	57.6	56.7	-
2434	Wood kitchen cabinets	48.1	48.4	49.4	48.3	-	39.5	38.9	39.9	38.3	-
2435	Hardwood veneer and plywood	25.1	25.2	27.2	27.0	-	22.0	22.1	24.0	23.7	-
2436	Softwood veneer and plywood	43.4	42.9	41.0	40.4	-	37.3	37.1	36.4	36.2	-
244	Wood containers	41.2	41.6	42.7	42.2	-	35.7	35.9	36.5	35.9	-
245	Wood buildings and mobile homes	65.0	66.0	68.9	67.5	-	48.2	49.3	51.0	49.8	-
2451	Mobile homes	45.5	46.6	49.3	49.5	-	34.8	36.0	38.0	37.9	-
249	Miscellaneous wood products	79.0	79.9	81.2	80.2	-	65.3	66.3	68.2	67.2	-
25	FURNITURE AND FIXTURES	461.6	465.0	480.6	483.7	481.4	372.1	376.0	387.8	390.6	388.0
251	Household furniture	299.4	304.1	309.9	311.1	-	250.8	255.4	259.1	260.5	-
2511	Wood household furniture	137.0	139.5	141.0	142.0	-	118.7	121.3	122.3	123.6	-
2512	Upholstered household furniture	92.6	93.8	97.3	97.8	-	76.3	77.2	79.5	79.8	-
2514	Metal household furniture	26.2	27.2	27.9	28.1	-	20.9	21.9	22.3	22.4	-
2515	Mattresses and bedsprings	30.2	30.0	30.6	30.3	-	23.3	23.1	23.5	23.4	-
252	Office furniture	48.2	48.3	52.2	53.2	-	37.9	38.1	40.7	41.7	-
253	Public building and related furniture	24.0	23.6	25.5	25.9	-	17.9	17.5	19.3	19.6	-
254	Partitions and fixtures	63.4	62.2	64.1	64.2	-	47.0	46.2	48.3	48.2	-
259	Miscellaneous furniture and fixtures	26.6	26.8	28.9	29.3	-	18.5	18.8	20.4	20.6	-

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				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
32	STONE, CLAY, AND GLASS PRODUCTS	665.5	663.5	669.1	664.7	654.3	515.0	514.0	517.4	514.3	504.6
321	Flat glass	19.2	19.8	18.8	19.3	-	14.7	15.3	14.6	15.1	-
322	Glass and glassware, pressed or blown	124.4	124.1	125.8	124.4	-	104.9	104.5	106.5	105.5	-
3221	Glass containers	69.9	69.5	70.5	68.8	-	61.4	60.8	62.2	60.7	-
3229	Pressed and blown glass, nec	54.5	54.6	55.3	55.6	-	43.5	43.7	44.3	44.8	-
323	Products of purchased glass	45.8	45.5	48.2	48.7	-	31.9	31.8	32.7	33.1	-
324	Cement, hydraulic	30.3	29.8	30.1	29.3	-	24.1	23.7	24.1	23.3	-
325	Structural clay products	44.7	45.1	44.5	43.6	-	33.7	34.0	33.8	32.9	-
326	Pottery and related products	45.6	45.6	45.0	44.7	-	37.6	37.7	37.2	36.8	-
327	Concrete, gypsum, and plaster products	209.0	207.1	199.9	197.2	-	162.2	160.8	154.2	153.2	-
3271	Concrete block and brick	21.5	21.5	20.4	19.8	-	15.0	15.0	14.1	13.7	-
3272	Concrete products, nec	68.2	67.1	64.8	64.1	-	51.8	51.1	48.2	48.5	-
3273	Ready-mixed concrete	98.6	97.8	94.3	92.9	-	78.6	78.0	75.4	74.5	-
329	Misc. nonmetallic mineral products	135.0	135.1	144.0	144.7	-	96.5	96.9	103.8	104.0	-
3291	Abrasive products	27.8	27.6	29.8	29.7	-	18.1	18.2	20.2	20.0	-
3292	Asbestos products	16.4	16.3	17.3	17.4	-	12.7	12.6	13.3	13.4	-
3296	Mineral wool	32.5	32.9	33.1	33.6	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,092.0	1,103.7	1,140.3	1,141.5	1,117.4	832.5	843.9	873.7	877.4	857.4
331	Blast furnace and basic steel products	483.9	490.7	514.4	511.8	-	371.1	377.4	398.0	396.1	-
3312	Blast furnaces and steel mills	403.4	411.1	430.1	427.1	-	310.1	317.4	333.8	331.4	-
3317	Steel pipe and tubes	30.4	29.8	32.8	32.9	-	23.4	22.8	25.5	25.6	-
332	Iron and steel foundries	198.9	199.6	204.8	209.5	-	159.3	159.6	162.5	167.0	-
3321	Gray iron foundries	118.6	120.5	126.4	128.0	-	96.5	98.0	102.7	104.4	-
3322	Malleable iron foundries	13.9	13.9	15.5	15.7	-	10.4	10.4	11.9	12.2	-
3325	Steel foundries, nec	54.3	53.3	52.9	54.1	-	43.5	42.5	41.4	42.7	-
333	Primary nonferrous metals	67.0	68.4	71.0	70.6	-	49.2	50.6	53.3	53.2	-
3334	Primary aluminum	37.6	37.3	36.3	35.9	-	29.4	29.0	28.2	27.9	-
335	Nonferrous rolling and drawing	205.8	207.3	206.9	206.5	-	146.2	147.6	147.4	148.2	-
3351	Copper rolling and drawing	29.3	29.2	30.0	30.4	-	21.5	21.5	22.3	22.9	-
3353	Aluminum sheet, plate, and foil	34.4	34.5	34.5	34.0	-	26.0	26.3	26.6	26.2	-
3357	Nonferrous wire drawing and insulating	85.2	87.1	85.7	87.4	-	61.1	62.9	61.0	62.8	-
336	Nonferrous foundries	87.2	87.3	92.0	91.7	-	69.3	70.0	73.8	73.8	-
3361	Aluminum foundries	49.7	49.4	52.7	52.5	-	40.1	40.3	43.1	43.2	-
34	FABRICATED METAL PRODUCTS	1,576.4	1,586.6	1,590.9	1,609.7	1,590.3	1,163.2	1,173.1	1,172.8	1,192.3	1,170.1
341	Metal cans and shipping containers	75.0	73.4	73.2	73.6	-	63.7	62.2	62.6	63.0	-
3411	Metal cans	62.1	60.5	60.4	60.7	-	53.1	51.7	52.3	52.7	-
342	Cutlery, hand tools, and hardware	161.7	164.7	166.5	170.0	-	123.4	126.7	125.8	129.9	-
3423,5	Hand and edge tools, and hand saws and blades	56.7	57.4	58.4	58.9	-	43.6	44.4	44.1	44.9	-
3429	Hardware, nec	90.3	92.2	93.8	96.7	-	68.3	70.4	71.1	74.4	-
343	Plumbing and heating, except electric	67.1	68.3	68.8	69.5	-	47.8	48.8	49.5	50.5	-
3432	Plumbing fittings and brass goods	21.6	22.2	24.9	25.2	-	17.2	17.7	19.9	20.3	-
3433	Heating equipment, except electric	35.2	35.2	33.2	33.5	-	23.4	23.4	22.3	22.9	-
344	Fabricated structural metal products	507.8	509.3	503.5	504.2	-	349.8	350.9	344.8	344.7	-
3441	Fabricated structural metal	97.8	98.2	95.7	96.8	-	70.6	70.6	68.3	69.3	-
3442	Metal doors, sash, and trim	81.0	81.5	79.9	79.6	-	59.8	60.5	58.3	58.3	-
3443	Fabricated plate work (boiler shops)	149.9	150.1	148.1	148.1	-	92.3	92.2	90.5	89.7	-
3444	Sheet metal work	111.5	111.5	110.9	111.1	-	81.6	81.5	81.0	81.1	-
3446	Architectural metal work	32.1	32.2	32.0	32.2	-	22.6	22.9	22.6	22.6	-
345	Screw machine products, bolts, etc.	102.7	103.2	102.3	103.4	-	78.6	79.1	78.8	79.8	-
3451	Screw machine products	48.3	48.6	48.7	49.5	-	39.0	39.1	39.6	40.3	-
3452	Bolts, nuts, rivets, and washers	54.4	54.6	53.6	53.9	-	39.6	40.0	39.2	39.5	-
346	Metal forgings and stampings	253.4	258.7	252.4	260.3	-	197.6	202.7	199.0	207.1	-
3462	Iron and steel forgings	42.4	42.5	43.9	45.2	-	32.1	32.4	34.0	35.4	-
3465	Automotive stampings	91.7	96.3	88.6	93.1	-	73.5	77.9	72.9	77.5	-
3469	Metal stampings, nec	106.6	107.3	107.7	109.4	-	82.1	82.6	82.7	84.4	-
347	Metal services, nec	100.4	101.3	105.1	106.6	-	80.7	81.5	84.6	85.8	-
3471	Plating and polishing	68.3	68.7	71.2	71.7	-	55.5	55.9	58.4	58.7	-
3479	Metal coating and allied services	32.1	32.6	33.9	34.9	-	25.2	25.6	26.2	27.1	-
348	Ordinance and accessories, nec	59.3	59.3	60.3	60.4	-	39.4	39.3	38.5	38.8	-
3483	Ammunition, exc. for small arms, nec	24.9	25.2	25.2	24.9	-	17.1	17.3	16.1	16.2	-
349	Misc. fabricated metal products	249.0	248.4	258.8	261.7	-	182.2	181.9	189.2	192.7	-
3494	Valves and pipe fittings	101.2	100.4	104.8	105.3	-	68.8	68.1	71.1	71.8	-
3496	Misc. fabricated wire products	54.0	54.4	57.1	57.6	-	42.2	42.5	44.5	45.1	-
35	MACHINERY, EXCEPT ELECTRICAL	2,453.4	2,461.2	2,511.4	2,539.1	2,529.7	1,561.7	1,563.1	1,582.0	1,611.2	1,603.5
351	Engines and turbines	131.5	131.7	134.6	136.2	-	83.5	83.6	86.7	89.1	-
3511	Turbines and turbine generator sets	42.0	42.1	40.7	40.9	-	21.5	21.8	21.5	21.7	-
3519	Internal combustion engines, nec	89.5	89.6	93.9	95.3	-	62.0	61.8	65.2	67.4	-
352	Farm and garden machinery	164.3	168.6	157.8	163.7	-	108.8	111.5	104.7	110.0	-
3523	Farm machinery and equipment	144.8	147.1	137.6	140.9	-	95.5	96.4	90.5	93.4	-
353	Construction and related machinery	384.1	378.5	403.6	406.2	-	250.6	244.4	263.7	266.7	-
3531	Construction machinery	143.6	138.4	144.7	147.0	-	97.1	91.1	94.7	97.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3532	Mining machinery.....	37.3	36.3	37.5	37.5	-	22.8	22.2	23.2	23.2	-
3533	Oil field machinery.....	96.5	97.4	113.3	114.0	-	66.0	66.6	78.9	79.7	-
3535	Conveyers and conveying equipment.....	34.6	34.4	35.0	35.0	-	19.0	19.0	20.1	19.9	-
3537	Industrial trucks and tractors.....	36.0	35.8	36.9	35.8	-	23.4	23.2	24.5	23.4	-
354	Metalworking machinery.....	363.3	364.1	358.2	361.5	-	263.7	263.9	256.5	260.5	-
3541	Machine tools, metal cutting types.....	79.3	79.6	78.5	78.8	-	52.6	52.7	50.2	51.1	-
3542	Machine tools, metal forming types.....	26.3	26.0	24.5	24.8	-	16.7	16.3	15.2	15.3	-
3544	Special dies, tools, jigs, and fixtures.....	133.7	134.5	133.8	135.5	-	106.1	106.9	105.2	107.1	-
3545	Machine tool accessories.....	69.0	68.9	67.6	68.8	-	48.8	48.8	47.1	48.6	-
3546	Power driven hand tools.....	30.0	30.5	29.1	29.2	-	22.8	23.1	22.4	22.3	-
355	Special industry machinery.....	205.9	205.0	201.5	201.2	-	130.4	129.4	127.1	127.0	-
3551	Food products machinery.....	44.8	44.4	43.2	43.4	-	28.4	28.0	27.2	27.5	-
3552	Textile machinery.....	26.3	26.0	24.7	24.4	-	18.5	18.1	17.2	16.9	-
3555	Printing trades machinery.....	41.9	41.9	42.8	42.9	-	25.9	25.9	26.7	27.0	-
356	General industrial machinery.....	315.0	313.6	312.6	316.1	-	204.3	203.3	201.7	205.3	-
3561	Pumps and pumping equipment.....	62.0	61.5	63.2	63.8	-	36.5	35.8	37.3	38.1	-
3562	Ball and roller bearings.....	57.2	57.1	54.6	54.8	-	44.3	44.3	41.5	42.0	-
3563	Air and gas compressors.....	30.1	30.2	29.9	30.4	-	17.8	18.0	17.7	17.9	-
3564	Blowers and fans.....	40.4	39.6	39.4	39.9	-	25.1	24.6	24.7	25.2	-
3566	Speed changers, drives, and gears.....	25.6	25.7	27.4	27.4	-	17.1	17.2	18.0	18.3	-
3568	Power transmission equipment, nec.....	21.7	21.6	22.1	22.3	-	15.2	15.2	15.6	15.8	-
357	Office and computing machines.....	432.3	435.2	459.8	461.2	-	185.0	185.3	185.3	185.5	-
3573	Electronic computing equipment.....	353.1	355.7	380.9	382.0	-	141.3	141.5	143.4	143.2	-
358	Refrigeration and service machinery.....	168.7	173.9	179.2	183.5	-	114.3	118.8	123.7	129.1	-
3585	Refrigeration and heating equipment.....	113.6	118.1	121.8	125.9	-	76.9	80.6	84.7	89.4	-
359	Misc. machinery, except electrical.....	288.3	290.6	304.1	309.5	-	221.1	222.9	232.6	238.0	-
3592	Carburetors, pistons, rings, valves.....	38.8	39.3	42.0	43.3	-	30.4	30.9	33.7	35.0	-
3599	Machinery, except electrical, nec.....	249.5	251.3	262.1	266.2	-	190.7	192.0	198.9	203.0	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	2,079.6	2,094.8	2,146.1	2,164.8	2,157.2	1,307.2	1,316.1	1,343.5	1,363.8	1,356.8
361	Electric distributing equipment.....	119.5	119.4	120.6	121.0	-	83.4	83.6	85.1	85.7	-
3612	Transformers.....	51.4	51.3	52.8	53.3	-	35.5	35.4	37.1	37.6	-
3613	Switchgear and switchboard apparatus.....	68.1	68.1	67.8	67.7	-	47.9	48.2	48.0	48.1	-
362	Electrical industrial apparatus.....	229.4	230.0	241.0	242.1	-	160.2	161.1	171.3	172.5	-
3621	Motors and generators.....	114.7	116.0	123.0	124.0	-	85.4	86.8	94.2	95.5	-
3622	Industrial controls.....	70.6	70.2	71.3	71.4	-	43.8	43.5	43.8	43.8	-
363	Household appliances.....	163.6	167.2	167.2	173.0	-	130.3	133.3	132.0	137.4	-
3632	Household refrigerators and freezers.....	31.2	32.7	35.0	37.9	-	24.8	26.3	28.1	31.1	-
3633	Household laundry equipment.....	19.9	20.5	21.4	21.0	-	15.4	16.1	16.8	16.3	-
3634	Electric housewares and fans.....	53.9	54.8	53.8	55.1	-	44.7	45.1	43.4	44.4	-
364	Electric lighting and wiring equipment.....	203.8	205.8	210.4	210.9	-	151.1	153.2	154.2	154.6	-
3641	Electric lamps.....	36.2	35.6	33.8	34.1	-	32.1	31.5	29.1	29.6	-
3643	Current-carrying wiring devices.....	85.6	86.3	91.5	90.9	-	58.9	59.7	61.9	61.2	-
3644	Noncurrent-carrying wiring devices.....	21.5	21.8	22.8	22.8	-	15.2	15.5	16.8	16.6	-
3645	Residential lighting fixtures.....	24.3	25.2	24.8	25.3	-	18.4	19.3	18.8	19.3	-
365	Radio and TV receiving equipment.....	110.2	110.6	111.7	114.6	-	79.6	79.6	78.6	81.5	-
3651	Radio and TV receiving sets.....	85.6	85.9	88.7	90.1	-	59.6	59.4	60.5	62.1	-
366	Communication equipment.....	537.5	539.8	546.3	546.2	-	259.7	260.5	263.3	265.2	-
3661	Telephone and telegraph apparatus.....	159.1	158.9	150.7	150.4	-	107.2	107.0	100.4	100.7	-
3662	Radio and TV communication equipment.....	378.4	380.9	395.6	395.8	-	152.5	153.5	162.9	164.5	-
367	Electronic components and accessories.....	555.6	558.3	578.9	581.9	-	328.3	326.5	336.0	339.1	-
3671-3	Electronic tubes.....	42.8	42.6	43.3	44.0	-	26.7	26.4	26.2	26.8	-
3674	Semiconductors and related devices.....	228.7	231.6	236.7	235.3	-	99.0	97.0	96.3	95.4	-
3679	Electronic components, nec.....	213.2	213.9	224.2	227.2	-	147.2	148.5	156.5	158.7	-
369	Misc. electrical equipment and supplies.....	160.0	163.7	170.0	175.1	-	114.6	118.3	123.0	127.8	-
3691	Storage batteries.....	31.1	32.2	33.3	34.7	-	24.4	25.5	26.0	27.3	-
3694	Engine electrical equipment.....	74.6	76.8	80.3	83.3	-	55.9	58.2	61.7	64.6	-
37	TRANSPORTATION EQUIPMENT	1,842.4	1,869.0	1,799.6	1,850.2	1,822.5	1,179.4	1,207.4	1,123.4	1,179.7	1,151.0
371	Motor vehicles and equipment.....	731.8	749.8	688.6	732.3	-	531.8	552.3	500.3	546.3	-
3711	Motor vehicles and car bodies.....	334.1	345.6	283.7	313.1	-	228.8	241.6	188.1	218.8	-
3713	Truck and bus bodies.....	36.6	35.7	33.4	34.0	-	27.3	26.3	25.0	25.8	-
3714	Motor vehicle parts and accessories.....	330.3	338.2	336.8	349.0	-	253.0	262.3	261.0	274.0	-
3715	Truck trailers.....	26.2	25.0	30.4	30.4	-	19.3	18.2	23.4	23.3	-
372	Aircraft and parts.....	659.8	662.4	650.8	654.3	-	354.7	356.4	340.9	346.8	-
3721	Aircraft.....	356.5	359.3	361.6	359.6	-	176.3	177.9	175.5	176.9	-
3724	Aircraft engines and engine parts.....	163.0	162.5	152.5	156.1	-	90.9	90.9	84.4	87.4	-
3728	Aircraft equipment, nec.....	140.3	140.6	136.7	138.6	-	87.5	87.6	81.0	82.5	-
373	Ship and boat building and repairing.....	214.2	220.6	227.6	229.3	-	169.4	176.3	173.3	175.4	-
3731	Ship building and repairing.....	171.7	176.9	178.1	179.8	-	134.6	140.4	131.9	134.3	-
3732	Boat building and repairing.....	42.5	43.7	49.5	49.5	-	34.8	35.9	41.4	41.1	-
374	Railroad equipment.....	66.0	62.3	48.0	48.9	-	48.9	45.6	31.9	32.9	-
376	Guided missiles, space vehicles, parts.....	112.8	113.9	121.7	121.6	-	34.6	34.7	35.6	35.9	-
3761	Guided missiles and space vehicles.....	90.0	91.0	98.1	98.0	-	26.0	26.1	27.0	27.2	-

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				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	TRANSPORTATION EQUIPMENT—Continued										
379	Miscellaneous transportation equipment	39.3	41.2	40.6	41.3	-	25.6	27.3	25.9	26.8	-
3792	Travel trailers and campers	16.8	18.1	20.3	20.2	-	12.6	13.9	15.6	15.6	-
38	INSTRUMENTS AND RELATED PRODUCTS	705.6	706.3	726.2	723.4	719.7	419.1	419.1	423.9	424.7	422.1
381	Engineering and scientific instruments	77.4	77.2	78.5	78.3	-	37.6	37.3	37.5	37.6	-
382	Measuring and controlling devices	239.7	239.7	249.7	251.0	-	148.1	148.3	155.5	157.7	-
3822	Environmental controls	46.0	46.1	47.3	47.6	-	31.3	31.5	31.9	32.4	-
3823	Process control instruments	52.0	52.4	58.1	58.6	-	27.0	27.3	30.4	31.0	-
3825	Instruments to measure electricity	102.8	102.5	106.7	106.5	-	62.1	62.1	67.0	67.3	-
383	Optical instruments and lenses	32.8	32.9	32.8	33.1	-	18.1	18.2	18.4	18.7	-
384	Medical instruments and supplies	155.6	155.9	160.8	160.0	-	101.6	101.2	100.3	100.2	-
3841	Surgical and medical instruments	72.2	72.0	75.5	74.5	-	47.7	47.1	45.0	44.7	-
3842	Surgical appliances and supplies	66.3	66.7	68.8	69.0	-	43.2	43.4	45.1	45.3	-
385	Ophthalmic goods	43.3	43.4	42.1	40.8	-	30.6	30.9	29.3	28.9	-
386	Photographic equipment and supplies	136.0	136.3	143.0	140.6	-	67.7	67.9	68.6	67.2	-
387	Watches, clocks, and watchcases	20.8	20.9	19.3	19.6	-	15.4	15.3	14.3	14.4	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	419.8	419.2	421.8	426.5	428.2	314.0	313.1	312.7	317.2	318.6
391	Jewelry, silverware, and plated ware	56.6	58.4	54.3	55.5	-	40.6	42.2	38.8	39.7	-
3911	Jewelry, precious metal	37.4	39.0	34.3	35.0	-	26.6	28.0	24.1	24.6	-
393	Musical instruments	21.2	21.3	22.4	21.9	-	16.9	17.1	18.0	17.6	-
394	Toys and sporting goods	119.2	117.2	119.9	121.2	-	89.5	87.6	91.1	92.6	-
3942, 4	Dolls, games, toys, and children's vehicles	63.4	62.5	65.6	66.8	-	46.9	45.9	49.3	50.3	-
3949	Sporting and athletic goods, nec	55.8	54.7	54.3	54.4	-	42.6	41.7	41.8	42.3	-
395	Pens, pencils, office and art supplies	36.9	37.1	39.6	40.0	-	26.2	26.1	28.3	28.6	-
396	Costume jewelry and notions	50.9	51.4	47.9	47.9	-	40.5	40.9	36.6	36.7	-
3961	Costume jewelry	24.6	25.6	23.8	23.6	-	19.3	20.3	18.6	18.3	-
399	Miscellaneous manufactures	135.0	133.8	137.7	140.0	-	100.3	99.2	99.9	102.0	-
3993	Signs and advertising displays	47.0	47.3	48.6	49.0	-	33.9	34.3	35.3	35.4	-
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	1,823.5	1,765.2	1,773.2	1,775.0	1,700.4	1,284.3	1,228.8	1,237.4	1,244.2	1,173.0
201	Meat products	360.0	358.8	350.8	351.4	-	299.8	299.1	292.6	293.7	-
2011	Meat packing plants	161.9	162.0	157.6	158.1	-	132.7	132.7	129.4	130.4	-
2013	Sausages and other prepared meats	70.6	69.0	69.1	68.9	-	52.0	50.9	51.5	51.3	-
2016	Poultry dressing plants	113.6	112.7	111.8	112.2	-	103.2	102.3	101.2	101.7	-
202	Dairy products	177.0	175.1	176.5	174.4	-	98.0	96.4	98.0	96.6	-
2022	Cheese, natural and processed	36.7	36.7	35.8	35.8	-	28.5	28.5	27.2	27.3	-
2026	Fluid milk	101.9	101.1	100.8	100.1	-	45.1	44.6	45.3	44.8	-
203	Preserved fruits and vegetables	354.2	284.5	312.3	317.8	-	305.2	238.8	267.6	273.6	-
2032	Canned specialties	27.1	26.3	27.0	28.1	-	20.4	19.6	20.3	21.4	-
2033	Canned fruits and vegetables	192.0	121.7	158.7	155.6	-	172.4	104.8	141.4	138.6	-
2037	Frozen fruits and vegetables	49.8	53.1	46.9	51.7	-	43.3	46.4	40.9	45.7	-
204	Grain mill products	147.0	146.8	143.1	143.5	-	101.1	101.1	99.9	100.8	-
2041	Flour and other grain mill products	27.8	27.5	27.2	27.5	-	16.6	16.4	17.4	18.2	-
2048	Prepared feeds, nec	58.2	58.2	56.2	55.5	-	38.2	38.2	36.9	36.4	-
205	Bakery products	226.2	225.9	222.6	224.4	-	132.4	132.8	129.3	130.9	-
2051	Bread, cake, and related products	182.8	182.1	181.9	182.3	-	98.1	97.9	96.9	97.0	-
2052	Cookies and crackers	43.4	43.8	40.7	42.1	-	34.3	34.9	32.4	33.9	-
206	Sugar and confectionery products	107.7	118.9	108.2	109.7	-	80.9	90.9	82.0	83.7	-
2061-3	Cane and beet sugar	26.9	36.4	27.5	27.4	-	18.7	27.1	19.6	19.5	-
2065	Confectionery products	59.5	61.6	59.7	61.2	-	47.1	49.0	48.3	49.9	-
207	Fats and oils	43.7	45.3	42.8	43.5	-	32.0	33.5	31.6	32.1	-
208	Beverages	236.5	238.7	242.7	239.7	-	106.2	107.2	105.9	104.7	-
2082	Malt beverages	51.5	51.2	51.0	50.4	-	33.6	33.5	32.0	32.0	-
2086	Bottled and canned soft drinks	142.4	139.8	146.4	143.2	-	48.4	46.4	48.9	47.2	-
209	Misc. foods and kindred products	171.2	171.2	174.2	170.6	-	128.7	129.0	130.5	128.1	-
21	TOBACCO MANUFACTURES	74.9	75.9	75.6	77.2	76.9	59.5	60.0	59.5	61.5	61.2
211	Cigarettes	46.2	46.6	47.4	47.2	-	34.9	35.1	35.7	35.9	-
22	TEXTILE MILL PRODUCTS	843.3	845.4	847.3	850.6	834.6	732.8	733.8	733.8	738.3	722.9
221	Weaving mills, cotton	149.2	148.1	140.8	140.9	-	133.7	132.8	125.0	125.5	-
222	Weaving mills, synthetics	118.5	118.4	118.1	119.1	-	106.3	106.3	106.0	107.2	-
223	Weaving and finishing mills, wool	18.1	18.1	18.7	18.7	-	14.6	14.6	15.6	15.4	-
224	Narrow fabric mills	22.6	23.0	24.4	24.6	-	19.8	20.1	21.5	21.8	-
225	Knitting mills	220.5	220.4	223.5	223.5	-	191.6	190.8	193.5	193.9	-
2251	Women's hosiery, except socks	29.6	29.2	29.1	29.0	-	26.7	26.2	26.1	26.1	-
2252	Hosiery, nec	33.0	33.3	34.8	34.6	-	30.1	30.3	31.7	31.6	-
2253	Knit outerwear mills	70.6	70.9	74.6	75.0	-	60.5	60.7	63.5	63.9	-
2254	Knit underwear mills	31.1	31.2	31.2	30.9	-	26.8	26.9	26.8	26.7	-

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 workers ¹				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	TEXTILE MILL PRODUCTS—Continued										
2257	Circular knit fabric mills	32.9	32.8	30.9	30.7	-	28.0	27.6	26.2	26.1	-
226	Textile finishing, except wool	72.0	72.4	72.0	72.6	-	60.3	60.7	60.0	60.8	-
2261	Finishing plants, cotton	28.7	28.7	28.0	28.2	-	24.0	23.8	22.8	23.2	-
2262	Finishing plants, synthetics	28.1	28.5	29.1	29.2	-	23.6	24.0	24.3	24.4	-
227	Floor covering mills	53.6	53.1	53.4	53.3	-	43.6	43.1	43.1	43.1	-
228	Yarn and thread mills	123.8	125.4	128.2	129.0	-	111.8	113.1	115.5	116.3	-
2281	Yarn mills, except wool	83.1	84.2	85.9	86.4	-	76.4	77.4	78.7	79.3	-
2282	Throwing and winding mills	20.3	20.6	20.8	20.8	-	17.8	18.1	18.4	18.4	-
229	Miscellaneous textile goods	65.0	66.5	68.2	68.9	-	51.1	52.3	53.6	54.3	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,274.3	1,270.5	1,276.8	1,292.3	1,277.3	1,090.0	1,086.8	1,087.3	1,102.5	1,087.1
231	Men's and boys' suits and coats	77.9	77.7	79.2	79.9	-	68.6	68.5	69.4	69.9	-
232	Men's and boys' furnishings	362.2	358.3	357.6	359.0	-	309.8	306.4	305.9	306.5	-
2321	Men's and boys' shirts and nightwear	99.1	98.2	98.9	99.8	-	85.7	84.8	85.5	86.1	-
2327	Men's and boys' separate trousers	75.9	76.2	74.6	74.5	-	66.4	66.5	65.2	64.9	-
2328	Men's and boys' work clothing	103.6	101.4	103.8	104.0	-	86.4	85.1	86.1	85.8	-
233	Women's and misses' outerwear	417.7	415.2	421.6	426.4	-	360.0	357.5	362.3	367.4	-
2331	Women's and misses' blouses and waists	60.8	61.3	62.4	62.7	-	52.8	53.4	54.4	54.6	-
2335	Women's and misses' dresses	142.9	140.0	140.6	143.2	-	126.5	123.5	123.5	126.1	-
2337	Women's and misses' suits and coats	71.4	68.9	70.6	71.1	-	62.3	60.1	60.5	61.0	-
2339	Women's and misses' outerwear, nec.	142.6	145.0	148.0	149.4	-	118.4	120.5	123.9	125.7	-
234	Women's and children's undergarments	89.3	89.4	90.1	91.1	-	75.9	76.1	76.8	77.9	-
2341	Women's and children's underwear	72.3	72.2	72.1	73.1	-	62.8	62.7	62.8	63.8	-
2342	Brassieres and allied garments	17.0	17.2	18.0	18.0	-	13.1	13.4	14.0	14.1	-
236	Children's outerwear	64.3	65.2	64.6	65.7	-	54.9	55.8	54.7	55.7	-
2361	Children's dresses and blouses	27.2	27.9	27.6	28.2	-	24.3	25.0	24.6	25.1	-
238	Misc. apparel and accessories	56.5	56.5	57.1	57.1	-	48.2	48.3	48.3	48.5	-
239	Misc. fabricated textile products	183.6	185.5	184.7	191.5	-	152.9	154.6	151.0	157.9	-
2391	Curtains and draperies	27.1	27.6	29.6	29.8	-	22.7	23.1	24.7	25.0	-
2392	House furnishings, nec.	50.8	51.2	51.1	52.9	-	41.7	42.2	42.4	43.6	-
2396	Automotive and apparel trimmings	36.3	36.9	32.9	36.6	-	32.0	32.4	26.3	30.8	-
26	PAPER AND ALLIED PRODUCTS	688.6	690.6	700.3	701.5	691.2	518.2	519.9	527.7	530.4	521.0
261, 2,6	Paper and pulp mills	202.1	204.3	207.0	206.3	-	150.6	153.2	155.5	155.8	-
262	Paper mills, except building paper	174.0	176.4	179.4	178.5	-	128.1	130.7	133.7	133.6	-
263	Paperboard mills	64.7	64.6	65.2	64.6	-	50.9	50.6	51.2	51.1	-
264	Misc. converted paper products	218.6	218.5	222.8	223.4	-	161.6	161.1	164.0	164.5	-
2641	Paper coating and glazing	55.9	55.9	56.9	56.7	-	35.9	35.7	36.9	36.6	-
2642	Envelopes	25.1	25.0	25.2	25.6	-	19.5	19.7	19.5	19.9	-
2643	Bags, except textile bags	49.3	49.6	50.3	51.0	-	38.2	38.5	39.3	40.1	-
265	Paperboard containers and boxes	203.2	203.2	205.3	207.2	-	155.1	155.0	157.0	159.0	-
2651	Folding paperboard boxes	42.1	42.2	43.1	43.4	-	33.2	33.2	33.8	33.9	-
2653	Corrugated and solid fiber boxes	104.9	104.8	105.6	106.8	-	76.7	76.5	77.7	79.0	-
2654	Sanitary food containers	25.8	25.7	26.4	25.8	-	21.0	20.9	21.5	21.0	-
27	PRINTING AND PUBLISHING	1,255.1	1,259.1	1,289.4	1,293.4	1,294.5	700.6	700.6	709.2	713.4	713.8
271	Newspapers	420.4	423.0	438.0	433.5	-	163.1	164.0	165.5	165.4	-
272	Periodicals	89.2	89.4	93.1	93.5	-	16.9	16.4	17.8	18.2	-
273	Books	97.5	96.8	100.2	99.3	-	48.7	47.7	49.8	48.7	-
2731	Book publishing	68.9	68.5	71.8	71.0	-	25.1	24.5	26.6	25.7	-
2732	Book printing	28.6	28.3	28.4	28.3	-	23.6	23.2	23.2	23.0	-
274	Miscellaneous publishing	48.5	47.9	49.1	48.6	-	26.0	25.2	25.7	26.1	-
275	Commercial printing	420.4	423.1	431.8	437.0	-	313.2	315.5	317.3	321.7	-
2751	Commercial printing, letterpress	167.7	169.3	170.5	173.6	-	124.7	126.5	125.6	129.0	-
2752	Commercial printing, lithographic	230.6	231.5	238.6	240.8	-	170.2	170.6	173.4	174.4	-
276	Manifold business forms	48.9	48.9	48.5	48.8	-	34.0	33.7	33.5	33.7	-
278	Blankbooks and bookbinding	60.9	59.8	62.5	62.0	-	50.0	48.9	51.3	50.7	-
279	Printing trade services	44.0	44.4	43.9	44.6	-	32.7	33.2	32.3	32.7	-
28	CHEMICALS AND ALLIED PRODUCTS	1,100.9	1,099.5	1,112.0	1,111.6	1,102.0	617.9	616.1	630.3	631.1	625.3
281	Industrial inorganic chemicals	161.0	160.7	164.1	163.7	-	86.8	86.2	89.8	90.1	-
2819	Industrial inorganic chemicals, nec.	106.5	106.1	107.9	107.5	-	58.1	57.5	58.9	58.8	-
282	Plastics materials and synthetics	201.7	201.9	200.2	201.1	-	132.6	132.6	132.6	133.4	-
2821	Plastics materials and resins	80.3	80.0	80.1	80.5	-	46.9	46.6	47.6	47.6	-
2824	Organic fibers, noncellulosic	94.5	95.0	93.8	94.6	-	66.3	66.6	66.1	67.2	-
283	Drugs	196.6	196.8	201.5	201.2	-	95.3	96.0	100.1	100.8	-
2834	Pharmaceutical preparations	155.0	155.0	158.6	158.1	-	72.9	73.6	77.2	77.6	-
284	Soap, cleaners, and toilet goods	141.3	140.8	139.1	140.7	-	86.8	86.3	87.3	88.5	-
2841	Soap and other detergents	42.2	42.1	40.2	40.5	-	27.2	27.2	26.4	26.7	-
2844	Toilet preparations	57.3	56.8	57.0	57.9	-	37.3	36.6	38.0	39.0	-
2842, 3	Polishing, sanitation, and finishing preparations	41.8	41.9	41.9	42.3	-	22.3	22.5	22.9	22.8	-
285	Paints and allied products	65.0	64.4	66.1	65.0	-	32.5	32.0	33.1	31.9	-
286	Industrial organic chemicals	170.5	169.6	171.9	170.9	-	85.4	85.0	86.7	85.7	-

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 workers ¹				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	34.8	34.1	35.4	35.3	-	21.4	20.4	21.8	21.8	-
2861.9	Gum, wood, and industrial organic chemicals, nec.	135.7	135.5	136.5	135.6	-	65.0	64.6	64.9	63.9	-
287	Agricultural chemicals	71.6	71.7	72.1	71.7	-	44.8	44.8	44.8	44.4	-
289	Miscellaneous chemical products	93.2	93.6	97.0	97.3	-	52.7	53.2	55.9	56.3	-
29	PETROLEUM AND COAL PRODUCTS	210.2	209.7	215.4	213.0	213.5	135.6	135.1	134.8	132.6	134.8
291	Petroleum refining	165.8	165.6	172.5	170.7	-	103.3	102.9	103.7	102.1	-
295	Paving and roofing materials	32.6	32.1	30.6	30.0	-	24.9	24.6	23.4	22.9	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	718.0	725.7	756.8	762.3	749.4	551.1	559.3	584.1	590.4	579.0
301	Tires and inner tubes	118.3	119.7	121.9	122.2	-	82.8	84.3	83.6	85.1	-
302	Rubber and plastics footwear	22.6	22.0	20.4	20.5	-	20.2	19.6	18.1	18.0	-
303.4	Reclaimed rubber, and rubber and plastics hose and belting	22.4	22.9	23.8	24.1	-	15.5	15.9	16.7	17.0	-
306	Fabricated rubber products, nec	104.0	105.0	107.7	108.9	-	80.5	81.7	84.1	85.1	-
307	Miscellaneous plastics products	450.7	456.1	483.0	466.6	-	352.1	357.8	381.6	385.2	-
31	LEATHER AND LEATHER PRODUCTS	232.7	232.1	238.6	236.6	235.7	197.1	196.3	202.4	200.9	200.5
311	Leather tanning and finishing	18.8	19.2	20.8	21.0	-	15.6	16.0	17.6	17.8	-
314	Footwear, except rubber	143.4	142.9	147.0	144.9	-	123.6	122.9	126.9	125.3	-
3143	Men's footwear, except athletic	56.1	56.4	58.9	59.5	-	48.4	48.6	50.6	51.0	-
3144	Women's footwear, except athletic	53.5	52.7	53.7	51.0	-	46.1	45.1	46.4	44.2	-
316	Luggage	16.5	16.3	15.7	15.4	-	12.4	12.2	11.7	11.6	-
317	Handbags and personal leather goods	30.1	29.6	29.7	29.7	-	25.5	25.0	24.6	24.4	-
-	TRANSPORTATION AND PUBLIC UTILITIES	5,159	5,166	5,175	5,227	5,230	4,304	4,311	4,288	4,336	4,344
40	RAILROAD TRANSPORTATION	534.9	534.5	511.5	513.0	-	-	-	-	-	-
4011	Class 1 railroads ²	481.3	480.7	462.0	463.0	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	273.2	277.0	224.4	290.3	-	252.6	256.8	204.6	270.9	-
411	Local and suburban transportation	82.2	82.1	82.3	85.8	-	75.8	75.6	74.8	78.3	-
412	Taxicabs	51.1	52.7	48.9	49.3	-	-	-	-	-	-
413	Intercity highway transportation	40.5	38.2	42.1	42.1	-	37.0	34.7	38.6	38.6	-
415	School buses	84.4	88.7	36.8	97.5	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,269.8	1,282.5	1,253.0	1,256.5	-	1,112.6	1,124.2	1,094.6	1,097.3	-
421.3	Trucking and trucking terminals	1,181.7	1,190.4	1,170.4	1,173.6	-	1,037.8	1,045.4	1,025.6	1,027.4	-
422	Public warehousing	88.1	92.1	82.6	82.9	-	74.8	78.8	69.0	69.9	-
44	WATER TRANSPORTATION	217.2	205.2	216.1	217.8	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	452.7	450.5	468.2	463.3	-	-	-	-	-	-
451.2	Air transportation	403.3	401.1	416.9	411.8	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	21.8	21.6	23.0	22.3	-	15.7	15.4	16.2	15.5	-
47	TRANSPORTATION SERVICES	194.2	194.7	217.5	215.6	-	-	-	-	-	-
48	COMMUNICATION	1,359.6	1,363.2	1,375.3	1,373.2	-	1,013.1	1,015.7	1,027.3	1,023.1	-
481	Telephone communication	1,074.5	1,076.2	1,077.8	1,073.0	-	779.4	780.5	784.5	778.2	-
483	Radio and television broadcasting	200.0	201.1	202.9	203.3	-	159.8	161.1	164.1	164.3	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	835.4	837.2	885.7	874.6	-	681.6	682.9	724.9	713.8	-
491	Electric services	397.4	400.3	418.8	415.5	-	320.7	323.5	339.0	336.0	-
492	Gas production and distribution	170.2	170.2	181.4	176.6	-	138.9	138.8	148.5	143.6	-
493	Combination utility services	195.0	194.9	211.3	208.3	-	158.7	158.6	173.5	170.3	-
495	Sanitary services	49.6	48.8	50.3	50.8	-	44.0	43.1	44.1	44.6	-
-	WHOLESALE AND RETAIL TRADE	20,495	20,533	20,811	20,926	20,993	17,963	18,002	18,188	18,294	18,363
50.51	WHOLESALE TRADE	5,293	5,315	5,386	5,369	5,375	4,320	4,337	4,383	4,366	4,378
50	WHOLESALE TRADE - DURABLE GOODS	3,108	3,120	3,204	3,190	-	2,532	2,541	2,600	2,586	-
501	Motor vehicles and automotive equipment	413.5	414.5	419.4	419.2	-	332.9	333.2	337.7	338.0	-
502	Furniture and home furnishing	115.2	116.0	120.5	121.5	-	94.0	94.8	98.2	99.1	-
503	Lumber and construction materials	190.5	190.8	195.0	193.6	-	157.0	156.6	160.6	158.9	-
504	Sporting goods, toys, and hobby goods	71.6	72.0	75.3	75.6	-	58.6	58.6	60.3	60.0	-
505	Metals and minerals, except petroleum	150.4	150.7	155.5	155.7	-	120.6	120.9	125.2	125.5	-
506	Electrical goods	417.2	418.3	423.1	422.8	-	338.0	338.9	341.2	340.1	-
507	Hardware, plumbing, and heating equipment	240.4	241.6	246.7	245.2	-	197.0	198.8	201.1	198.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,306.1	1,310.3	1,364.7	1,352.8	-	1,062.2	1,065.1	1,103.3	1,092.8	-
509	Miscellaneous durable goods	202.7	205.6	203.7	203.6	-	171.5	174.2	171.9	172.3	-
51	WHOLESALE TRADE-NONDURABLE GOODS	2,185	2,195	2,182	2,179	-	1,788	1,796	1,783	1,780	-
511	Paper and paper products	151.7	152.5	155.1	154.9	-	123.5	124.4	125.8	125.2	-
512	Drugs, proprietaries, and sundries	146.6	148.4	151.5	151.0	-	123.5	125.5	127.8	127.4	-
513	Apparel, piece goods, and notions	169.9	171.2	170.2	170.2	-	134.7	135.9	133.2	133.2	-
514	Groceries and related products	697.6	692.8	690.2	684.7	-	603.0	597.2	592.6	588.9	-
516	Chemicals and allied products	128.4	127.3	130.6	130.1	-	92.5	90.9	94.3	94.0	-
517	Petroleum and petroleum products	221.0	221.2	226.5	224.6	-	161.3	161.4	170.8	169.1	-
518	Beer, wine, and distilled beverages	138.8	139.0	144.7	143.2	-	116.6	116.5	121.3	119.9	-
519	Miscellaneous nondurable goods	384.9	385.4	380.1	384.4	-	313.1	313.9	308.9	312.0	-
52-59	RETAIL TRADE	15,202	15,218	15,425	15,557	15,618	13,643	13,665	13,805	13,928	13,985
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	617.3	619.7	623.0	618.5	-	520.9	523.6	527.0	520.8	-
521	Lumber and other building materials	328.2	330.0	331.4	327.3	-	277.9	279.8	281.2	277.0	-
525	Hardware stores	148.8	149.0	150.5	150.4	-	127.0	127.4	128.5	127.6	-
53	GENERAL MERCHANDISE STORES	2,189.3	2,237.8	2,238.9	2,259.4	-	2,033.8	2,081.3	2,024.3	2,047.0	-
531	Department stores	1,812.0	1,860.5	1,860.4	1,881.6	-	1,694.8	1,742.2	1,682.1	1,706.7	-
533	Variety stores	257.1	256.9	250.2	250.4	-	236.7	236.8	232.4	231.2	-
539	Misc. general merchandise stores	120.2	120.4	128.3	127.4	-	102.3	102.3	109.8	109.1	-
54	FOOD STORES	2,413.2	2,414.5	2,448.6	2,474.4	-	2,230.8	2,233.3	2,275.7	2,298.6	-
541	Grocery stores	2,120.2	2,121.4	2,150.9	2,174.2	-	1,965.4	1,967.6	2,004.7	2,025.5	-
542	Meat markets and freezer provisioners	55.0	55.5	55.0	55.3	-	-	-	-	-	-
546	Retail bakeries	129.0	127.2	125.0	127.9	-	117.6	116.4	115.1	117.6	-
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,679.5	1,681.5	1,686.5	1,684.8	-	1,422.3	1,422.9	1,430.3	1,430.4	-
551.2	New and used car dealers	771.5	773.7	765.6	768.5	-	631.8	633.5	627.9	630.7	-
553	Auto and home supply stores	264.3	264.7	274.9	275.8	-	229.2	229.5	238.4	238.7	-
554	Gasoline service stations	565.5	565.2	565.3	561.4	-	493.2	492.2	494.5	493.2	-
56	APPAREL AND ACCESSORY STORES	952.1	965.1	963.5	972.5	-	813.0	825.9	825.1	831.9	-
561	Men's and boys' clothing and furnishings	130.5	131.8	130.0	131.4	-	109.8	111.1	110.0	111.3	-
562	Women's ready-to-wear stores	347.8	356.6	344.3	349.4	-	300.8	308.9	298.5	303.1	-
565	Family clothing stores	179.7	181.1	186.6	188.1	-	155.8	157.0	164.2	164.6	-
566	Shoe stores	194.3	194.0	202.2	202.0	-	160.9	160.9	166.3	165.8	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	604.8	607.5	606.1	608.0	-	501.9	503.9	500.5	501.4	-
571	Furniture and home furnishings stores	374.1	374.3	379.0	378.4	-	311.2	311.4	313.8	312.9	-
572	Household appliance stores	83.2	83.6	82.2	81.8	-	71.5	71.5	70.3	69.7	-
573	Radio, television, and music stores	147.5	149.6	144.9	147.8	-	119.2	121.0	116.4	118.8	-
58	EATING AND DRINKING PLACES	4,846.9	4,756.8	4,926.0	4,974.9	-	4,461.5	4,381.3	4,536.8	4,585.2	-
59	MISCELLANEOUS RETAIL	1,899.0	1,935.0	1,932.1	1,964.2	-	1,658.9	1,693.1	1,684.9	1,712.9	-
591	Drug stores and proprietary stores	490.8	492.6	489.5	485.0	-	444.5	446.2	442.7	437.1	-
592	Liquor stores	126.0	125.7	130.6	128.7	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	590.7	602.4	623.2	646.6	-	501.9	516.2	532.3	553.9	-
596	Nonstore retailers	271.5	286.8	264.6	279.4	-	253.4	264.0	243.9	258.3	-
598	Fuel and ice dealers	101.3	104.0	99.9	100.6	-	84.6	87.3	82.8	83.1	-
599	Retail stores, nec.	260.4	264.5	266.2	265.7	-	217.4	221.4	222.7	222.0	-
-	FINANCE, INSURANCE, AND REAL										
	ESTATE	5,201	5,211	5,408	5,353	5,337	3,937	3,940	4,096	4,043	4,027
60	BANKING	1,573.8	1,578.3	1,641.7	1,626.8	-	1,210.8	1,213.1	1,255.5	1,242.8	-
602	Commercial and stock savings banks	1,435.5	1,439.5	1,496.3	1,482.7	-	1,097.3	1,099.3	1,138.2	1,127.1	-
61	CREDIT AGENCIES OTHER THAN BANKS	567.3	570.6	578.8	574.8	-	427.8	430.9	439.6	435.9	-
612	Savings and loan associations	250.6	254.1	266.7	265.9	-	190.0	193.3	202.0	201.2	-
614	Personal credit institutions	203.2	202.8	196.8	194.7	-	152.8	152.2	152.4	150.6	-
62	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	226.6	228.7	251.8	249.9	-	-	-	-	-	-
621	Security brokers and dealers	184.0	185.3	206.8	205.6	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,228.1	1,231.6	1,242.0	1,235.5	-	857.2	858.2	860.4	853.5	-
631	Life insurance	532.2	533.9	536.9	534.0	-	326.5	327.6	334.3	330.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	143.7	143.9	144.5	143.8	-	115.1	114.9	114.7	113.9	-
633	Fire, marine, and casualty insurance	480.5	481.2	486.7	484.2	-	359.0	358.3	353.9	351.5	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	455.2	457.5	470.4	469.1	-	-	-	-	-	-
65	REAL ESTATE	1,010.6	1,005.1	1,072.7	1,047.7	-	-	-	-	-	-
651	Real estate operators and lessors	464.9	462.6	492.6	484.1	-	-	-	-	-	-
653	Real estate agents and managers	384.5	383.8	406.1	396.5	-	-	-	-	-	-
655	Subdividers and developers	139.5	137.0	152.1	145.8	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC.	21.1	21.0	21.0	21.0	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES.	118.1	118.4	129.8	128.4	-	-	-	-	-	-
-	SERVICES	18,087	18,115	18,835	18,829	18,877	16,094	16,122	16,751	16,734	16,792
70	HOTELS AND OTHER LODGING PLACES	1,151.4	1,083.1	1,237.8	1,161.2	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	1,113.2	1,053.1	1,158.2	1,118.4	-	1,023.8	968.2	1,063.7	1,025.8	-
72	PERSONAL SERVICES	880.8	887.8	880.6	888.0	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	354.0	356.5	351.8	353.0	-	316.3	318.7	314.7	315.1	-
723	Beauty shops	285.5	284.9	284.7	288.0	-	266.0	265.0	264.6	267.2	-
726	Funeral service and crematories	69.1	69.7	73.7	72.7	-	-	-	-	-	-
73	BUSINESS SERVICES	3,173.8	3,185.6	3,359.4	3,362.2	-	2,774.3	2,780.3	2,936.1	2,935.1	-
731	Advertising	153.2	153.9	156.4	154.9	-	116.0	116.9	120.5	119.2	-
732	Credit reporting and collection	73.3	73.8	72.2	71.7	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	121.8	124.5	129.5	130.6	-	-	-	-	-	-
734	Services to buildings	493.3	496.3	523.7	525.2	-	447.3	450.1	476.0	477.7	-
736	Personnel supply services	597.7	589.9	634.3	621.3	-	-	-	-	-	-
737	Computer and data processing services	311.8	315.6	349.3	352.2	-	261.1	263.7	286.8	287.9	-
75	AUTO REPAIR, SERVICES, AND GARAGES	570.0	567.5	579.4	582.1	-	486.1	484.7	493.6	495.4	-
753	Automotive repair shops	350.5	349.1	358.8	358.6	-	298.2	297.5	303.6	302.9	-
76	MISCELLANEOUS REPAIR SERVICES	287.1	293.9	298.6	300.7	-	235.4	243.3	251.9	252.8	-
78	MOTION PICTURES	199.5	198.0	224.8	222.8	-	176.4	173.8	193.1	191.4	-
781	Motion picture production and services	56.2	65.5	66.4	69.3	-	46.2	53.7	53.7	57.0	-
783	Motion picture theaters	132.0	121.4	147.9	142.6	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	820.9	731.0	930.4	890.4	-	743.5	658.2	850.1	810.3	-
80	HEALTH SERVICES	5,325.2	5,348.4	5,588.5	5,583.0	-	4,757.0	4,780.5	5,003.3	4,996.8	-
801	Offices of physicians	756.8	757.5	791.3	791.2	-	620.2	622.0	653.5	650.4	-
802	Offices of dentists	343.6	340.4	357.5	357.8	-	300.4	298.0	315.8	316.6	-
805	Nursing and personal care facilities	1,013.3	1,018.7	1,060.4	1,060.0	-	912.8	918.5	959.4	959.4	-
806	Hospitals	2,773.5	2,788.8	2,912.3	2,905.8	-	2,545.1	2,558.4	2,670.5	2,666.3	-
81	LEGAL SERVICES	503.9	510.7	548.5	540.3	-	430.0	437.9	469.4	459.9	-
82	EDUCATIONAL SERVICES	1,100.7	1,218.3	960.7	1,096.7	-	-	-	-	-	-
821	Elementary and secondary schools	290.8	301.2	251.4	286.9	-	-	-	-	-	-
822	Colleges and universities	695.2	797.1	593.4	690.8	-	-	-	-	-	-
83	SOCIAL SERVICES	1,143.9	1,155.0	1,177.8	1,175.6	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,548.8	1,570.1	1,580.9	1,574.5	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	996.0	1,001.8	1,053.2	1,043.2	-	828.4	833.7	877.6	869.0	-
891	Engineering and architectural services	547.7	551.5	579.0	570.9	-	464.6	468.3	491.3	483.4	-
893	Accounting, auditing, and bookkeeping	318.3	319.7	336.8	336.5	-	255.9	256.8	270.5	271.3	-
-	GOVERNMENT	15,841	16,331	15,148	15,461	15,902	-	-	-	-	-
-	FEDERAL GOVERNMENT	2,754	2,774	2,803	2,741	2,744	-	-	-	-	-
-	Executive, by agency ⁴	2,699.1	2,719.8	2,748.1	2,687.3	-	-	-	-	-	-
-	Department of Defense	883.5	891.3	930.7	903.3	-	-	-	-	-	-
-	Postal Service	657.1	660.7	663.3	660.2	-	-	-	-	-	-
-	Other executive agencies	1,158.5	1,167.8	1,154.1	1,123.8	-	-	-	-	-	-
-	Legislative	39.6	39.1	39.7	38.6	-	-	-	-	-	-
-	Judicial	15.0	14.9	15.3	15.5	-	-	-	-	-	-

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				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	FEDERAL GOVERNMENT—Continued										
	Federal Government, by industry										
—	Manufacturing activities	103.6	106.1	111.8	108.7	—	—	—	—	—	—
3731	Shipbuilding and repairing	53.9	56.6	58.6	56.8	—	—	—	—	—	—
—	Transportation and public utilities, except										
—	Postal Service	41.4	41.2	41.2	40.6	—	—	—	—	—	—
—	Services	410.5	409.1	414.6	410.2	—	—	—	—	—	—
806	Federal government hospitals	230.8	230.8	233.2	232.1	—	—	—	—	—	—
	STATE AND LOCAL GOVERNMENT	13,087	13,557	12,345	12,720	13,158	—	—	—	—	—
—	State government	3,524.0	3,662.5	3,364.4	3,447.1	—	—	—	—	—	—
806	State government hospitals	531.7	534.5	533.0	529.9	—	—	—	—	—	—
82	State education	1,316.6	1,465.9	1,135.2	1,282.3	—	—	—	—	—	—
—	General administration including executive, legislative, and judicial functions	1,039.6	1,032.1	1,055.0	1,010.9	—	—	—	—	—	—
—	Local government	9,563.3	9,894.5	8,980.5	9,273.2	—	—	—	—	—	—
—	Transportation and public utilities	625.2	626.8	643.1	643.3	—	—	—	—	—	—
806	Local government hospitals	611.8	611.8	632.1	630.3	—	—	—	—	—	—
82	Local education	4,932.5	5,328.4	4,203.5	4,802.4	—	—	—	—	—	—
—	General administration including executive, legislative, and judicial functions	2,989.0	2,947.6	3,098.9	2,863.5	—	—	—	—	—	—

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

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

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

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

— Data not available.
p = preliminary.

NOTE: Data from April 1980 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustment" in the Explanatory notes of this publication.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	July 1980	Aug. 1980	June 1981	July 1981	Aug. 1981
-	TOTAL	37,314	37,473	39,455	38,628	38,672
-	PRIVATE SECTOR	30,242	30,492	31,664	31,557	31,725
-	MINING	106	107	127	130	132
10	METAL MINING	8.5	8.2	9.7	9.6	9.6
11, 12	COAL MINING	10.5	10.8	10.9	11.4	11.6
13	OIL AND GAS EXTRACTION	77.6	78.6	96.6	99.1	101.0
131, 2	Crude petroleum, natural gas, and natural gas liquids	50.9	51.3	61.7	63.5	64.2
138	Oil and gas field services	26.7	27.3	34.9	35.6	36.8
14	NONMETALLIC MINERALS, EXCEPT FUELS	9.6	9.8	10.2	10.2	10.0
142	Crushed and broken stone	2.8	2.7	2.7	2.7	2.7
144	Sand and gravel	3.1	3.2	3.3	3.3	3.2
-	CONSTRUCTION	381	388	404	409	410
15	GENERAL BUILDING CONTRACTORS	133.3	136.7	141.5	142.6	143.9
152	Residential building construction	79.0	81.4	84.8	85.8	87.6
153	Operative builders	13.7	13.8	14.6	14.5	14.4
154	Nonresidential building construction	40.6	41.5	42.1	42.3	41.9
16	HEAVY CONSTRUCTION CONTRACTORS	64.4	65.1	64.3	65.9	65.7
161	Highway and street construction	19.9	20.0	18.2	18.4	18.2
162	Heavy construction, except highway	44.5	45.1	46.1	47.5	47.5
17	SPECIAL TRADE CONTRACTORS	183.7	185.8	198.0	200.6	199.9
171	Plumbing, heating, air conditioning	50.7	51.2	54.5	55.2	54.8
172	Painting, paper hanging, decorating	11.7	11.5	12.8	12.7	12.5
173	Electrical work	34.2	34.4	36.7	37.1	37.2
174	Masonry, stonework, and plastering	21.2	21.4	23.7	24.0	24.2
175	Carpentering and flooring	14.1	14.4	15.6	15.7	15.3
176	Roofing and sheet metal work	13.2	13.4	13.7	13.7	13.7
-	MANUFACTURING	6,096	6,267	6,449	6,370	6,485
24, 25, 32 39	DURABLE GOODS	2,891	2,913	3,099	3,064	3,077
20-23, 26-31	NONDURABLE GOODS	3,205	3,354	3,350	3,306	3,408
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	96.8	101.5	107.5	106.8	106.1
241	Logging camps and logging contractors	5.4	5.5	5.5	5.9	5.7
242	Sawmills and planing mills	19.9	20.1	20.7	20.5	20.3
2421	Sawmills and planing mills, general	14.4	14.5	14.6	14.7	14.5
243	Millwork, plywood, and structural members	37.9	40.9	44.2	44.0	43.5
244	Wood containers	6.9	7.0	7.2	7.1	7.0
245	Wood buildings and mobile homes	7.5	8.1	8.8	8.6	8.7
249	Miscellaneous wood products	19.2	19.9	21.1	20.7	20.9
25	FURNITURE AND FIXTURES	127.0	132.2	145.2	142.0	144.8
251	Household furniture	89.4	94.2	104.2	101.2	102.3
2511	Wood household furniture	37.8	41.1	44.5	43.5	44.1
2512	Upholstered household furniture	30.9	32.0	35.2	34.3	34.9
2515	Mattresses and bedsprings	7.7	8.0	8.5	8.3	8.4
252	Office furniture	12.1	12.2	13.3	13.0	13.6
253	Public building and related furniture	5.0	5.0	5.4	5.4	5.8
254	Partitions and fixtures	10.3	10.6	10.8	10.8	11.1
259	Miscellaneous furniture and fixtures	10.2	10.2	11.5	11.6	12.0
32	STONE, CLAY, AND GLASS PRODUCTS	121.9	123.5	130.7	130.0	130.7
322	Glass and glassware, pressed or blown	40.7	41.1	41.8	41.4	42.0
3221	Glass containers	23.0	23.9	23.5	23.4	23.7
3229	Pressed and blown glass, nec	17.7	17.2	18.3	18.0	18.3
323	Products of purchased glass	13.0	13.0	13.9	13.8	13.5
324	Cement, hydraulic	1.7	1.7	1.9	1.8	1.8
325	Structural clay products	6.3	6.3	6.7	6.7	6.8
326	Pottery and related products	13.3	14.1	14.5	14.5	14.9
327	Pottery and related products	15.4	15.5	15.4	15.2	15.1
329	Concrete, gypsum, and plaster products	29.1	29.1	33.1	33.1	33.1
329	Misc. nonmetallic mineral products	29.1	29.1	33.1	33.1	33.1
33	PRIMARY METAL INDUSTRIES	115.9	116.1	127.4	125.2	125.4
331	Blast furnace and basic steel products	36.6	36.3	42.6	42.4	42.4
3312	Blast furnaces and steel mills	27.7	27.2	32.4	32.5	32.0
332	Iron and steel foundries	17.5	17.1	18.0	17.9	17.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1980	Aug- 1980	June 1981	July 1981	Aug- 1981
PRIMARY METAL INDUSTRIES —Continued						
3321	Gray iron foundries	8.0	8.1	9.1	9.0	9.1
3322	Malleable iron foundries .....	.9	.9	1.1	1.1	1.1
3325	Steel foundries, nec	5.0	5.1	4.6	4.6	4.7
333	Primary nonferrous metals	4.9	4.7	5.2	5.2	5.1
3334	Primary aluminum	2.4	2.3	2.4	2.4	2.4
335	Nonferrous rolling and drawing	38.6	39.1	39.7	38.2	38.5
3351	Copper rolling and drawing	3.3	3.3	3.6	3.6	3.5
3353	Aluminum sheet, plate, and foil	3.8	4.0	4.1	4.0	4.0
3357	Nonferrous wire drawing and insulating	23.1	23.4	23.7	22.4	22.7
336	Nonferrous foundries	12.8	13.5	15.9	15.2	15.6
3361	Aluminum foundries	6.5	6.7	8.1	7.7	8.0
34	FABRICATED METAL PRODUCTS	312.5	320.0	342.6	337.1	337.7
341	Metal cans and shipping containers	12.6	12.9	13.1	13.0	12.9
3411	Metal cans	10.9	11.2	11.2	11.1	11.1
342	Cutlery, hand tools, and hardware	49.6	50.8	58.5	57.4	56.5
3423, 5	Hand and edge tools, and hand saws and blades	14.9	15.5	16.7	16.4	16.5
3429	Hardware, nec	28.6	28.4	35.3	34.6	33.6
343	Plumbing and heating, except electric	14.4	14.7	16.5	16.7	16.8
344	Fabricated structural metal products	69.4	70.7	72.8	72.6	72.5
3441	Fabricated structural metal	7.1	7.2	7.4	7.4	7.4
3442	Metal doors, sash, and trim	19.2	20.2	20.7	20.8	20.9
3443	Fabricated plate work (boiler shops)	18.1	18.3	18.8	18.7	18.6
3444	Sheet metal work	15.5	15.6	16.1	15.9	15.9
345	Screw machine products, bolts, etc.	22.8	22.9	23.6	23.3	23.3
3451	Screw machine products	11.6	11.8	12.2	11.9	11.8
3452	Bolts, nuts, rivets, and washers	11.2	11.1	11.4	11.4	11.5
346	Metal forgings and stampings	46.7	50.2	54.1	51.5	51.7
3462	Iron and steel forgings	4.2	4.2	4.3	4.3	4.3
3465	Automotive stampings	9.8	11.4	14.1	12.8	12.4
3469	Metal stampings, nec	30.3	32.1	33.1	31.8	32.5
347	Metal services, nec	22.9	23.6	24.5	24.5	24.6
3471	Plating and polishing	15.9	16.5	17.4	17.4	17.8
3479	Metal coating and allied services	7.0	7.1	7.1	7.1	6.8
348	Ordnance and accessories, nec	17.1	16.9	17.4	16.9	17.0
349	Misc. fabricated metal products	57.0	57.3	62.1	61.2	62.4
3494	Valves and pipe fittings	22.4	21.9	23.5	23.3	23.6
3496	Misc. fabricated wire products	13.3	13.9	14.9	14.5	15.1
35	MACHINERY, EXCEPT ELECTRICAL	485.4	480.9	511.3	509.4	510.2
351	Engines and turbines	24.6	24.3	23.5	23.7	24.0
3511	Turbines and turbine generator sets	6.1	6.2	5.9	5.9	5.8
3519	Internal combustion engines, nec	18.5	18.1	17.6	17.8	18.2
352	Farm and garden machinery	25.8	23.5	25.5	25.4	26.4
3523	Farm machinery and equipment	20.9	18.6	20.3	20.2	20.0
353	Construction and related machinery	47.5	47.5	52.5	53.3	53.4
3531	Construction machinery	13.9	13.8	15.6	15.6	15.6
3533	Oil field machinery	13.7	13.7	15.7	16.3	16.4
354	Metalworking machinery	56.8	56.3	58.7	57.5	57.9
3541	Machine tools, metal cutting types	10.6	10.4	10.6	10.6	10.6
3544	Special dies, tools, jigs, and fixtures	15.4	15.2	16.4	16.2	16.4
3545	Machine tool accessories	13.7	13.4	14.0	13.7	13.7
355	Special industry machinery	31.0	30.6	31.3	31.0	30.6
3551	Food products machinery	6.4	6.2	5.8	5.7	5.7
3552	Textile machinery	5.0	5.0	4.8	4.7	4.8
3555	Printing trades machinery	7.1	7.1	7.6	7.7	7.4
356	General industrial machinery	61.2	61.3	63.1	62.3	61.9
3561	Pumps and pumping equipment	11.4	11.3	11.6	11.6	11.7
3562	Ball and roller bearings	13.6	13.9	13.8	13.4	13.4
357	Office and computing machines	155.0	154.8	163.7	165.5	166.4
3573	Electronic computing equipment	126.4	127.0	135.4	137.1	138.3
358	Refrigeration and service machinery	35.7	35.3	40.8	39.1	38.0
3585	Refrigeration and heating equipment	23.1	23.0	27.5	25.8	25.6
359	Misc. machinery, except electrical	47.8	47.3	52.2	51.6	51.6
3599	Machinery, except electrical, nec	39.1	38.3	40.8	40.4	40.7
36	ELECTRIC AND ELECTRONIC EQUIPMENT	861.2	866.7	920.7	909.2	912.5
361	Electric distributing equipment	41.2	42.0	47.2	44.7	45.5
3612	Transformers	17.1	16.7	19.1	18.1	18.7
3613	Switchgear and switchboard apparatus	24.1	25.3	28.1	26.6	26.8
362	Electrical industrial apparatus	85.3	84.3	92.3	91.0	90.6
3621	Motors and generators	44.4	43.7	50.7	49.5	49.2
3622	Industrial controls	28.8	28.6	28.8	28.6	28.5
363	Household appliances	52.3	52.9	62.8	62.6	60.2
3632	Household refrigerators and freezers	8.1	6.1	11.7	11.5	8.8
3633	Household laundry equipment	3.6	3.2	4.6	4.8	4.6
3634	Electric housewares and fans	25.9	27.8	28.4	28.8	29.8
364	Electric lighting and wiring equipment	90.1	90.4	97.7	94.3	95.3
3641	Electric lamps	22.1	20.8	21.3	20.2	20.6

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1980	Aug. 1980	June 1981	July 1981	Aug. 1981
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	41.2	41.7	44.4	43.4	44.1
365	Radio and TV receiving equipment	54.3	56.2	58.0	57.7	57.9
3651	Radio and TV receiving sets	41.2	42.0	45.1	44.9	45.0
366	Communication equipment	204.2	205.1	209.5	208.7	209.1
3661	Telephone and telegraph apparatus	77.0	77.3	73.9	73.2	73.1
3662	Radio and TV communication equipment	127.2	127.8	135.6	135.5	136.0
367	Electronic components and accessories	284.4	283.3	292.8	289.8	292.4
3671-3	Electronic tubes	16.2	16.2	16.5	16.5	16.2
3674	Semiconductors and related devices	109.0	108.1	108.1	107.8	108.1
3679	Electronic components, nec	111.9	111.6	118.6	116.0	118.5
369	Misc. electrical equipment and supplies	49.4	52.5	60.4	60.4	61.5
3694	Engine electrical equipment	21.8	23.9	30.3	30.4	31.1
TRANSPORTATION EQUIPMENT		284.9	279.4	309.5	307.2	304.0
37	Motor vehicles and equipment	96.7	95.4	109.2	105.8	102.0
371	Motor vehicles and car bodies	40.7	36.6	38.9	37.8	33.7
3711	Truck and bus bodies	4.1	4.0	3.8	3.8	3.7
3713	Motor vehicle parts and accessories	48.8	51.6	62.6	60.4	61.3
372	Aircraft and parts	121.2	117.5	126.0	126.3	126.6
3721	Aircraft	65.7	63.4	70.7	71.5	72.9
3724	Aircraft engines and engine parts	28.4	26.9	28.1	27.7	27.0
3728	Aircraft equipment, nec	27.1	27.2	27.2	27.1	26.7
373	Ship and boat building and repairing	21.0	20.6	24.9	25.3	25.8
3731	Ship building and repairing	16.1	15.3	17.9	18.3	18.8
374	Railroad equipment	6.7	6.5	5.5	5.4	5.2
376	Guided missiles, space vehicles, parts	24.5	24.8	27.0	27.6	27.7
3761	Guided missiles and space vehicles	20.4	20.6	22.4	23.0	23.1
379	Miscellaneous transportation equipment	7.8	8.2	8.3	8.0	7.9
INSTRUMENTS AND RELATED PRODUCTS		299.7	299.2	308.5	305.6	308.5
38	Engineering and scientific instruments	23.9	24.0	24.6	24.5	24.6
381	Measuring and controlling devices	103.3	103.1	107.9	106.4	107.4
382	Environmental controls	21.7	22.7	22.9	23.3	23.7
3822	Process control instruments	18.4	17.6	19.9	19.6	19.9
3823	Instruments to measure electricity	47.1	47.0	49.3	48.3	48.7
3825	Optical instruments and lenses	11.6	11.3	11.7	11.8	11.6
383	Medical instruments and supplies	84.2	83.7	86.9	85.4	86.8
384	Surgical and medical instruments	41.1	40.8	42.6	42.3	42.4
3841	Surgical appliances and supplies	35.0	34.7	36.1	35.0	36.4
3842	Ophthalmic goods	24.5	25.1	25.2	24.8	25.0
385	Photographic equipment and supplies	39.6	39.5	41.5	41.9	41.7
386	Watches, clocks, and watchcases	12.6	12.5	10.7	10.8	11.4
387						
MISCELLANEOUS MANUFACTURING INDUSTRIES		185.8	193.6	195.5	191.8	197.4
39	Jewelry, silverware, and plated ware	23.3	25.4	25.4	23.7	24.5
391	Musical instruments	8.9	9.2	10.3	10.3	10.2
393	Toys and sporting goods	59.9	61.9	61.6	61.8	62.8
394	Dolls, games, toys, and children's vehicles	33.3	35.3	34.4	35.2	36.2
3942, 4	Sporting and athletic goods, nec	26.6	26.6	27.2	26.6	26.6
3949	Pens, pencils, office and art supplies	20.0	20.0	20.9	21.1	21.4
395	Costume jewelry and notions	26.3	28.6	27.6	25.3	27.5
396	Miscellaneous manufactures	47.4	48.5	49.7	49.6	51.0
399						
NONDURABLE GOODS						
FOOD AND KINDRED PRODUCTS		511.5	570.8	489.1	510.3	549.5
20	Meat products	117.2	116.5	114.3	114.4	114.7
201	Meat packing plants	29.5	29.4	29.1	28.9	29.8
2011	Sausages and other prepared meats	20.8	21.0	20.9	20.9	20.7
2013	Poultry dressing plants	60.3	59.5	58.1	59.0	58.5
2016	Dairy products	38.9	39.1	38.6	38.6	38.0
202	Fluid milk	17.7	17.7	17.6	17.5	17.3
2026	Preserved fruits and vegetables	111.3	160.8	87.9	108.6	142.4
203	Canned specialties	8.4	9.2	8.3	8.5	10.1
2032	Canned fruits and vegetables	47.5	90.7	25.4	45.9	74.3
2033	Frozen fruits and vegetables	18.8	22.1	21.0	18.9	21.5
2037	Grain mill products	29.6	30.4	30.0	29.7	30.3
204	Bakery products	58.8	59.2	58.1	57.8	57.9
205	Bread, cake, and related products	39.5	39.3	39.3	38.8	39.1
2051	Cookies and crackers	19.3	19.9	18.8	19.0	18.8
2052	Sugar and confectionery products	37.7	42.6	40.6	40.5	44.2
206	Fats and oils	6.1	6.0	6.1	6.0	6.0
207	Beverages	41.1	42.0	42.0	42.6	43.3
208	Malt beverages	7.7	7.7	7.7	8.1	8.3
2082	Bottled and canned soft drinks	18.8	18.9	19.3	19.7	19.8
2086	Misc. foods and kindred products	70.8	74.2	71.5	72.1	72.7
209						
TOBACCO MANUFACTURES		22.1	25.5	23.3	23.3	28.3
21	Cigarettes	14.2	13.9	15.4	15.4	15.1
211						

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	July 1980	Aug. 1980	June 1981	July 1981	Aug. 1981
22	TEXTILE MILL PRODUCTS	382.8	398.3	403.0	395.6	401.9
221	Weaving mills, cotton	63.8	64.8	61.8	61.1	61.4
222	Weaving mills, synthetics	46.1	48.1	49.1	48.9	49.2
223	Weaving and finishing mills, wool	6.6	7.0	7.5	6.8	7.2
224	Narrow fabric mills	11.8	13.4	14.6	14.1	14.8
225	Knitting mills	137.9	142.0	143.1	140.8	142.0
2251	Women's hosiery, except socks	23.2	23.3	22.6	22.2	22.7
2252	Hosiery, nec	22.7	24.0	25.1	25.0	25.0
2253	Knit outerwear mills	47.2	49.5	51.3	50.9	51.9
2254	Knit underwear mills	23.3	23.3	23.7	22.6	22.6
2257	Circular knit fabric mills	12.2	12.7	11.9	11.8	11.8
226	Textile finishing, except wool	20.8	21.6	22.0	20.8	21.9
2261	Finishing plants, cotton	9.1	9.3	9.2	8.7	9.5
2262	Finishing plants, synthetic	5.6	6.1	6.6	6.3	6.4
227	Floor covering mills	21.1	22.3	22.4	22.2	22.8
228	Yarn and thread mills	56.8	60.6	62.6	61.5	62.9
2281	Yarn mills, except wool	36.1	38.3	39.5	39.2	39.9
2282	Throwing and winding mills	11.2	11.7	12.1	11.6	12.0
229	Miscellaneous textile goods	17.9	18.5	19.9	19.4	19.7
23	APPAREL AND OTHER TEXTILE PRODUCTS	975.5	1,021.5	1,035.1	990.0	1,027.5
231	Men's and boys' suits and coats	59.1	61.0	61.7	59.7	61.7
232	Men's and boys' furnishings	292.7	309.3	302.4	292.6	300.6
2321	Men's and boys' shirts and nightwear	82.9	87.7	85.8	83.6	85.5
2327	Men's and boys' separate trousers	60.3	63.5	62.8	61.1	62.8
2328	Men's and boys' work clothing	82.3	87.5	86.9	83.0	85.5
233	Women's and misses' outerwear	339.4	351.2	357.8	338.1	356.7
2331	Women's and misses' blouses and waists	52.1	53.2	54.8	54.2	55.3
2335	Women's and misses' dresses	118.6	125.1	122.7	112.2	122.4
2337	Women's and misses' suits and coats	54.9	57.8	54.4	52.3	56.4
2339	Women's and misses' outerwear, nec	113.8	115.1	125.9	119.4	122.6
234	Women's and children's undergarments	73.8	76.0	77.6	75.8	77.6
2341	Women's and children's underwear	60.0	62.4	62.7	61.2	62.9
2342	Brassieres and allied garments	13.8	13.6	14.9	14.6	14.7
236	Children's outerwear	53.4	53.3	57.3	56.4	54.9
2361	Children's dresses and blouses	23.3	23.0	25.0	25.0	24.3
238	Misc. apparel and accessories	40.0	43.1	43.2	40.6	43.4
239	Misc. fabricated textile products	101.7	111.8	119.4	111.6	117.4
2391	Curtains and draperies	19.7	21.2	22.5	21.6	23.3
2392	House furnishings, nec	29.7	31.2	31.5	30.7	32.6
2396	Automotive and apparel trimmings	10.7	16.2	19.4	15.1	16.6
26	PAPER AND ALLIED PRODUCTS	155.9	158.1	163.1	162.6	165.1
261, 26	Paper and pulp mills	28.3	28.3	28.8	29.0	28.9
282	Paper mills, except building paper	25.3	25.3	25.9	26.1	26.1
283	Paperboard mills	6.1	6.0	6.1	6.2	6.2
284	Misc. converted paper products	75.1	75.8	78.9	78.9	79.8
285	Paperboard containers and boxes	46.4	48.0	49.3	48.5	50.2
27	PRINTING AND PUBLISHING	495.9	495.5	511.8	512.5	514.6
271	Newspapers	159.2	158.4	164.5	165.0	165.8
272	Periodicals	53.3	53.8	54.1	55.0	55.0
273	Books	53.1	52.6	54.6	53.9	53.9
274	Miscellaneous publishing	26.1	26.6	27.6	27.3	26.8
275	Commercial printing	129.3	129.1	137.0	136.4	136.9
2751	Commercial printing, letterpress	55.1	54.7	57.8	57.2	57.2
2752	Commercial printing, lithographic	68.8	69.0	72.8	72.7	73.1
276	Manifold business forms	15.6	15.7	15.7	15.7	15.8
278	Blankbooks and bookbinding	32.3	32.6	32.2	32.6	33.4
279	Printing trade services	10.9	10.8	11.4	11.6	11.5
28	CHEMICALS AND ALLIED PRODUCTS	277.5	277.5	285.9	285.3	284.1
281	Industrial inorganic chemicals	24.2	24.4	24.9	24.7	24.7
2819	Industrial inorganic chemicals, nec	16.2	16.5	16.7	16.6	16.6
282	Plastics materials and synthetics	43.2	42.9	44.0	44.3	43.7
2821	Plastics materials and resins	11.4	11.2	11.8	12.0	11.9
2824	Organic fibers, noncellulosic	24.9	24.9	25.1	25.2	25.0
283	Drugs	83.2	82.8	87.1	87.4	86.4
2834	Pharmaceutical preparations	69.7	69.5	72.8	73.1	72.4
284	Soap, cleaners, and toilet goods	56.2	57.1	57.2	56.5	56.9
2841	Soap and other detergents	9.5	9.5	9.3	9.1	9.3
2844	Toilet preparations	32.7	33.4	34.2	33.9	34.0
285	Paints and allied products	12.7	12.5	12.8	12.8	12.7
286	Industrial organic chemicals	26.7	26.5	26.5	26.8	26.9
2861,9	Gum, wood, and industrial organic chemicals, nec	22.1	22.0	22.2	22.4	22.4
287	Agricultural chemicals	10.9	10.6	11.3	11.2	11.0
289	Miscellaneous chemical products	20.4	20.7	22.1	21.6	21.8

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1980	Aug. 1980	June 1981	July 1981	Aug. 1981
29	PETROLEUM AND COAL PRODUCTS	28.6	28.4	30.9	31.4	31.4
291	Petroleum refining	23.4	23.3	25.6	26.1	26.2
30	RUBBER AND MISC. PLASTICS PRODUCTS	228.4	237.5	264.5	259.2	262.9
301	Tires and inner tubes	11.3	11.0	11.9	12.0	11.8
302	Rubber and plastics footwear	12.0	13.3	12.7	12.3	12.5
303,4	Reclaimed rubber, and rubber and plastics hose and belting	4.8	5.2	7.4	7.3	7.0
306	Fabricated rubber products, nec	32.5	33.8	37.5	36.7	37.4
307	Miscellaneous plastics products	167.8	174.2	195.0	190.9	194.2
31	LEATHER AND LEATHER PRODUCTS	126.5	140.8	143.0	136.2	143.1
311	Leather tanning and finishing	2.5	2.7	3.0	2.8	3.0
314	Footwear, except rubber	84.8	95.5	97.3	93.4	97.6
3143	Men's footwear, except athletic	29.6	34.9	36.8	34.5	37.1
3144	Women's footwear, except athletic	34.9	37.4	37.6	36.8	36.9
316	Luggage	8.6	8.5	8.7	8.1	8.1
317	Handbags and personal leather goods	19.5	20.9	20.3	19.5	20.5
-	TRANSPORTATION AND PUBLIC UTILITIES	1,275	1,276	1,343	1,327	1,330
41	LOCAL AND INTERURBAN PASSENGER TRANSPORT	41.4	39.9	68.6	43.4	42.0
411	Local and suburban transportation	12.7	13.0	15.6	15.1	15.2
412	Taxicabs	6.6	6.4	7.1	7.0	6.6
413	Intercity highway transportation	5.5	5.3	5.1	5.0	5.1
415	School buses	14.4	12.9	38.0	13.9	12.7
42	TRUCKING AND WAREHOUSING	149.4	150.8	152.5	152.4	153.0
421,3	Trucking and trucking terminals	134.3	135.1	137.8	137.1	136.7
422	Public warehousing	15.1	15.7	14.7	15.3	16.3
44	WATER TRANSPORTATION	21.8	21.9	23.0	24.2	24.5
45	TRANSPORTATION BY AIR	150.7	150.9	153.2	154.1	154.7
451,2	Air transportation	142.1	142.4	144.4	145.2	145.6
46	PIPE LINES, EXCEPT NATURAL GAS	2.9	2.8	3.3	3.3	3.3
47	TRANSPORTATION SERVICES	91.7	91.3	101.3	103.2	108.2
48	COMMUNICATION	636.1	637.9	644.9	647.4	646.8
481	Telephone communication	551.0	552.8	553.8	556.0	555.2
483	Radio and television broadcasting	63.7	63.6	66.1	66.1	66.0
49	ELECTRIC, GAS, AND SANITARY SERVICES	156.7	156.7	168.6	171.2	171.1
491	Electric services	72.8	72.9	78.4	79.2	79.2
492	Gas production and distribution	37.6	37.5	39.8	40.8	40.7
493	Combination utility services	35.5	35.6	39.1	39.5	39.7
495	Sanitary services	5.8	5.7	6.2	6.5	6.3
-	WHOLESALE AND RETAIL TRADE	8,795	8,845	9,153	9,106	9,159
50,51	WHOLESALE TRADE	1,360	1,361	1,391	1,386	1,396
50	WHOLESALE TRADE-DURABLE GOODS	750	750	775	775	778
501	Motor vehicles and automotive equipment	89.2	88.8	89.8	89.8	89.9
502	Furniture and home furnishings	43.2	43.7	45.1	45.3	46.0
503	Lumber and construction materials	34.6	34.6	36.8	36.9	37.1
504	Sporting goods, toys, and hobby goods	23.2	23.3	25.4	25.3	25.3
505	Metals and minerals, except petroleum	29.5	28.9	30.2	30.1	30.1
506	Electrical goods	119.5	120.2	124.3	122.6	123.4
507	Hardware, plumbing, and heating equipment	65.5	65.2	66.4	66.8	66.8
508	Machinery, equipment, and supplies	299.1	298.7	309.5	312.0	312.2
509	Miscellaneous durable goods	46.1	46.6	47.7	46.3	47.3
51	WHOLESALE TRADE-NONDURABLE GOODS	610	611	616	611	618
511	Paper and paper products	46.2	46.3	49.2	49.3	48.8
512	Drugs, proprietaries, and sundries	63.1	63.5	66.0	65.4	65.5
513	Apparel, piece goods, and notions	81.8	82.1	83.0	82.6	83.6
514	Groceries and related products	164.7	166.4	161.5	159.9	164.5
516	Chemicals and allied products	33.5	33.9	35.1	35.1	35.0
517	Petroleum and petroleum products	52.6	52.4	52.6	53.3	53.1
518	Beer, wine, and distilled beverages	21.1	21.0	22.2	22.2	22.2
519	Miscellaneous nondurable goods	113.2	113.2	114.8	113.7	113.8

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

(In thousands)

1972 SIC Code	Industry	July 1980	Aug. 1980	June 1981	July 1981	Aug. 1981
52-59	RETAIL TRADE	7,435	7,484	7,762	7,720	7,763
52	BUILDING MATERIALS AND GARDEN SUPPLIES	159.2	158.4	166.9	164.2	161.9
521	Lumber and other building materials	64.6	64.9	67.8	66.9	66.2
525	Hardware stores	54.6	54.6	56.1	56.7	55.9
53	GENERAL MERCHANDISE STORES	1,467.5	1,465.8	1,544.5	1,541.7	1,548.4
531	Department stores	1,193.5	1,189.8	1,268.9	1,266.5	1,271.7
533	Variety stores	194.1	195.3	193.6	191.4	193.0
539	Misc. general merchandise stores	77.9	80.7	82.0	83.8	83.7
54	FOOD STORES	1,013.3	1,018.6	1,056.9	1,051.7	1,058.4
541	Grocery stores	850.6	856.3	884.1	881.9	887.8
542	Meat markets and freezer provisioners	17.9	17.3	17.4	17.4	17.5
546	Retail bakeries	77.9	78.5	81.4	78.8	78.7
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	300.7	306.4	309.8	314.3	315.7
551.2	New and used car dealers	111.4	111.6	114.3	113.5	113.8
553	Auto and home supply stores	46.1	49.8	48.8	49.9	49.4
554	Gasoline service stations	127.0	129.2	130.7	134.9	136.7
56	APPAREL AND ACCESSORY STORES	645.1	652.1	673.5	667.1	669.5
561	Men's and boys' clothing and furnishings	56.4	57.0	58.2	58.0	58.3
562	Women's ready-to-wear stores	299.7	301.7	312.6	306.2	307.0
565	Family clothing stores	133.3	136.0	140.2	140.7	141.9
566	Shoe stores	81.0	82.0	85.3	84.9	84.5
57	FURNITURE AND HOME FURNISHING STORES	197.0	197.2	204.4	206.0	206.5
571	Furniture and home furnishings stores	133.8	133.0	138.1	139.0	138.9
572	Household appliance stores	22.2	22.3	22.8	23.1	22.7
573	Radio, television, and music stores	41.0	41.9	43.5	43.9	44.9
58	EATING AND DRINKING PLACES	2,680.2	2,699.4	2,759.8	2,739.1	2,751.8
59	MISCELLANEOUS RETAIL	971.8	986.0	1,046.6	1,036.1	1,051.2
591	Drug stores and proprietary stores	297.6	300.2	304.0	303.1	306.8
592	Liquor stores	30.3	30.9	34.6	34.8	35.0
594	Miscellaneous shopping goods stores	338.6	344.1	372.3	370.5	376.1
596	Nonstore retailers	148.2	148.1	160.7	156.5	159.6
598	Fuel and ice dealers	22.3	22.5	22.9	22.7	22.9
599	Retail stores, nec	118.3	120.0	131.6	128.3	130.4
-	FINANCE, INSURANCE, AND REAL ESTATE	3,064	3,071	3,188	3,203	3,204
60	BANKING	1,120.4	1,121.1	1,161.1	1,166.5	1,166.8
602	Commercial and stock savings banks	1,031.5	1,032.2	1,068.1	1,073.1	1,073.3
61	CREDIT AGENCIES OTHER THAN BANKS	372.5	375.9	398.5	398.8	397.9
612	Savings and loan associations	181.1	182.9	198.8	199.0	198.2
614	Personal credit institutions	120.5	121.1	128.3	127.9	128.0
62	SECURITY, COMMODITY BROKERS, AND SERVICES	91.9	93.6	103.1	105.4	106.5
621	Security brokers and dealers	73.5	75.1	84.2	86.3	87.3
63	INSURANCE CARRIERS	749.5	749.6	758.9	761.5	759.6
631	Life insurance	294.2	294.6	302.1	302.7	302.2
632	Medical service and health insurance	104.3	104.6	105.2	105.0	104.7
633	Fire, marine, and casualty insurance	304.0	302.7	302.1	303.4	303.4
64	INSURANCE AGENTS, BROKERS, AND SERVICE	283.5	283.8	294.4	296.5	296.8
65	REAL ESTATE	370.4	371.0	392.1	393.5	394.9
651	Real estate operators and lessors	142.2	143.3	153.3	153.5	154.2
653	Real estate agents and managers	178.5	177.1	183.4	184.7	185.1
655	Subdividers and developers	35.2	36.1	39.7	40.5	40.1
66	COMBINED REAL ESTATE, INSURANCE, ETC.	13.4	13.5	12.8	12.8	12.7
67	HOLDING AND OTHER INVESTMENT OFFICES	62.1	62.5	66.6	68.2	68.4
-	SERVICES	10,525	10,538	11,000	11,012	11,005
70	HOTELS AND OTHER LODGING PLACES	664.0	670.9	643.0	677.1	678.7
701	Hotels, motels, and tourist courts	628.8	633.7	617.6	637.5	637.6

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1980	Aug. 1980	June 1981	July 1981	Aug. 1981
72	PERSONAL SERVICES	604.8	601.0	600.4	608.0	607.0
721	Laundry, cleaning, and garment services	223.4	223.0	227.0	223.6	222.9
723	Beauty shops	255.1	252.4	252.5	253.6	254.1
726	Funeral service and crematories	19.0	19.1	19.9	19.7	20.2
73	BUSINESS SERVICES	1,314.5	1,335.6	1,436.2	1,445.4	1,456.3
731	Advertising	71.5	71.6	74.8	75.1	74.7
732	Credit reporting and collection	52.8	52.7	51.6	51.3	51.2
733	Mailing, reproduction, stenographic	57.5	59.3	63.4	63.5	63.4
734	Services to buildings	184.5	184.7	199.5	195.7	199.9
736	Personnel supply services	320.9	340.9	367.8	380.6	387.9
737	Computer and data processing services	141.9	141.3	161.2	163.3	164.2
75	AUTO REPAIR, SERVICES, AND GARAGES	94.7	94.7	96.9	96.6	96.8
753	Automotive repair shops	41.5	41.7	43.9	44.2	44.8
76	MISCELLANEOUS REPAIR SERVICES	58.2	58.1	58.0	57.8	58.9
78	MOTION PICTURES	91.0	83.1	90.5	92.5	93.9
781	Motion picture production and services	25.9	19.3	21.4	20.5	21.8
783	Motion picture theaters	59.0	57.9	63.2	66.1	66.1
79	AMUSEMENT AND RECREATION SERVICES	349.7	347.3	358.5	368.3	365.8
80	HEALTH SERVICES	4,319.7	4,335.5	4,510.6	4,537.9	4,546.7
801	Offices of physicians	587.2	590.3	610.0	616.4	617.3
802	Offices of dentists	289.2	290.5	305.2	306.9	304.9
805	Nursing and personal care facilities	900.9	906.8	934.4	937.0	940.0
806	Hospitals	2,237.1	2,241.5	2,334.5	2,349.9	2,354.4
81	LEGAL SERVICES	360.7	357.4	384.4	387.3	385.5
82	EDUCATIONAL SERVICES	494.6	497.6	561.0	502.7	494.3
821	Elementary and secondary schools	152.8	157.8	191.5	160.0	153.9
822	Colleges and universities	277.1	275.4	301.3	276.5	274.7
83	SOCIAL SERVICES	861.4	850.2	873.0	865.5	856.8
89	MISCELLANEOUS SERVICES	323.6	323.7	345.5	348.6	349.8
891	Engineering and architectural services	116.0	116.1	126.9	127.6	127.0
893	Accounting, auditing, and bookkeeping	146.5	147.3	159.5	160.2	162.0
...	GOVERNMENT	7,072	6,981	7,791	7,071	6,947
...	FEDERAL GOVERNMENT	938	906	895	899	889
...	STATE AND LOCAL GOVERNMENT	6,134	6,075	6,896	6,172	6,058
...	State government	1,509.4	1,512.1	1,576.8	1,525.1	1,517.6
...	Hospitals	338.2	337.5	334.9	335.7	336.3
...	State education	531.4	535.4	589.5	533.7	524.3
...	General administration including executive, legislative, and judicial functions	425.7	425.2	435.9	438.9	439.2
...	Local government	4,624.6	4,563.3	5,319.5	4,646.8	4,540.0
...	Transportation and public utilities	100.1	99.2	103.0	105.7	105.3
...	Hospitals	494.1	496.0	512.5	514.5	513.0
...	Local education	2,651.1	2,605.4	3,439.8	2,683.0	2,618.0
...	General administration including executive, legislative, and judicial functions	1,118.1	1,105.4	1,033.3	1,094.9	1,064.3

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT**

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

(In thousands)

Industry division and group	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. p	Oct. p
TOTAL	90,668	90,844	90,949	91,091	91,258	91,347	91,458	91,564	91,615	91,880	91,901	91,948	91,743
GOODS-PRODUCING	25,521	25,629	25,631	25,647	25,657	25,705	25,700	25,705	25,818	25,939	25,931	25,925	25,632
MINING	1,032	1,052	1,069	1,083	1,091	1,098	950	957	1,110	1,132	1,151	1,157	1,158
CONSTRUCTION	4,379	4,389	4,387	4,390	4,389	4,416	4,418	4,334	4,284	4,272	4,275	4,268	4,249
MANUFACTURING	20,110	20,188	20,175	20,174	20,177	20,191	20,332	20,414	20,424	20,535	20,505	20,500	20,225
DURABLE GOODS	12,013	12,090	12,077	12,084	12,074	12,099	12,207	12,254	12,278	12,333	12,332	12,309	12,126
Lumber and wood products	679	683	687	689	691	692	702	710	699	702	686	677	661
Furniture and fixtures	462	463	464	464	466	467	478	484	486	488	487	484	478
Stone, clay, and glass products	655	658	655	654	654	651	656	658	658	658	660	655	646
Primary metal industries	1,108	1,126	1,137	1,137	1,140	1,141	1,145	1,142	1,144	1,140	1,148	1,142	1,122
Fabricated metal products	1,578	1,582	1,581	1,579	1,577	1,581	1,595	1,604	1,604	1,614	1,610	1,608	1,581
Machinery, except electrical	2,481	2,489	2,490	2,487	2,481	2,480	2,491	2,511	2,521	2,533	2,542	2,549	2,550
Electric and electronic equipment	2,087	2,096	2,103	2,110	2,110	2,117	2,134	2,143	2,148	2,163	2,166	2,163	2,149
Transportation equipment	1,848	1,874	1,839	1,840	1,833	1,849	1,878	1,872	1,886	1,886	1,889	1,887	1,801
Instruments and related products	709	712	712	713	711	712	714	716	717	723	727	727	723
Miscellaneous manufacturing ind.	406	407	409	411	411	409	414	414	415	426	417	417	415
NONDURABLE GOODS	8,097	8,098	8,098	8,090	8,103	8,092	8,125	8,160	8,146	8,202	8,173	8,191	8,099
Food and kindred products	1,711	1,705	1,701	1,696	1,705	1,691	1,697	1,703	1,673	1,691	1,668	1,668	1,648
Tobacco manufactures	69	71	71	71	72	72	72	71	71	71	73	71	70
Textile mill products	845	844	842	841	839	838	842	843	846	856	849	850	834
Apparel and other textile products	1,256	1,253	1,250	1,244	1,243	1,243	1,250	1,258	1,264	1,278	1,272	1,278	1,262
Paper and allied products	691	692	692	691	691	689	691	694	695	696	698	702	691
Printing and publishing	1,262	1,265	1,269	1,269	1,272	1,276	1,280	1,283	1,284	1,290	1,295	1,300	1,297
Chemicals and allied products	1,102	1,103	1,105	1,106	1,109	1,108	1,107	1,109	1,111	1,110	1,106	1,113	1,105
Petroleum and coal products	208	209	209	211	210	210	211	213	212	212	212	211	212
Rubber and misc. plastic products	722	725	729	730	731	734	744	753	757	760	764	762	746
Leather and leather products	231	231	230	231	231	231	231	233	233	238	236	236	234
SERVICE-PRODUCING	65,147	65,215	65,318	65,444	65,601	65,642	65,758	65,859	65,797	65,941	65,970	66,023	66,111
TRANSPORTATION AND PUBLIC UTILITIES	5,129	5,114	5,118	5,124	5,135	5,139	5,161	5,148	5,149	5,167	5,170	5,191	5,194
WHOLESALE AND RETAIL TRADE	20,461	20,464	20,470	20,529	20,600	20,635	20,636	20,714	20,717	20,796	20,862	20,879	20,910
WHOLESALE TRADE	5,296	5,296	5,300	5,305	5,313	5,316	5,333	5,346	5,349	5,360	5,375	5,369	5,354
RETAIL TRADE	15,165	15,168	15,170	15,224	15,287	15,319	15,303	15,368	15,368	15,436	15,487	15,510	15,556
FINANCE, INSURANCE, AND REAL ESTATE	5,221	5,235	5,254	5,268	5,283	5,293	5,316	5,326	5,331	5,344	5,354	5,358	5,348
SERVICES	18,087	18,160	18,240	18,300	18,343	18,371	18,475	18,540	18,560	18,642	18,667	18,791	18,839
GOVERNMENT	16,249	16,242	16,236	16,223	16,240	16,204	16,170	16,131	16,040	15,992	15,917	15,804	15,820
FEDERAL	2,795	2,796	2,800	2,799	2,795	2,781	2,767	2,779	2,781	2,777	2,770	2,771	2,766
STATE AND LOCAL	13,454	13,446	13,436	13,424	13,445	13,423	13,403	13,352	13,259	13,215	13,147	13,033	13,054

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	1980					1981							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
TOTAL	38,269	38,425	38,473	38,570	38,657	38,780	38,877	38,931	38,987	39,088	39,264	39,469	39,482
GOODS-PRODUCING	6,721	6,736	6,754	6,778	6,795	6,806	6,814	6,823	6,878	6,915	6,936	7,016	6,999
MINING	105	107	108	111	113	115	117	119	114	116	124	127	129
CONSTRUCTION	379	381	384	388	390	391	392	394	397	397	398	402	401
MANUFACTURING	6,237	6,248	6,262	6,279	6,292	6,300	6,305	6,310	6,367	6,402	6,414	6,487	6,469
DURABLE GOODS	2,942	2,956	2,973	2,990	3,000	3,008	3,013	3,020	3,054	3,073	3,087	3,116	3,118
Lumber and wood products	101	102	102	102	103	104	104	104	106	108	107	108	105
Furnitures and fixtures	135	137	137	138	139	139	141	141	145	146	148	149	148
Stone, clay, and glass products	124	125	125	126	125	126	127	126	127	128	129	131	131
Primary metal industries	118	121	122	124	124	124	124	124	127	128	127	125	128
Fabricated metal products	326	329	330	330	331	330	331	333	337	341	342	345	345
Machinery, except electrical	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Electric and electronic equipment	877	878	882	888	892	897	898	902	912	915	916	926	925
Transportation equipment	288	287	292	296	291	292	294	295	302	303	308	311	314
Instruments and related products	301	301	302	302	304	303	302	302	303	305	304	308	310
Miscellaneous manufacturing ind.	191	190	189	188	191	192	191	191	192	194	193	200	195
NONDURABLE GOODS	3,295	3,292	3,289	3,289	3,292	3,292	3,292	3,290	3,313	3,329	3,327	3,371	3,351
Food and kindred products	515	509	508	506	505	505	505	500	506	507	495	504	496
Tobacco manufactures	24	25	25	26	25	26	26	26	26	26	26	26	27
Textile mill products	399	398	398	398	398	397	396	395	398	399	400	405	402
Apparel and other textile products	1,020	1,016	1,012	1,008	1,006	1,004	1,001	1,001	1,006	1,012	1,019	1,033	1,025
Paper and allied products	157	158	158	159	159	159	160	160	161	162	160	163	164
Printing and publishing	497	500	500	502	504	504	505	507	510	511	512	515	517
Chemicals and allied products	275	276	277	278	280	281	282	283	282	282	283	283	282
Petroleum and coal products	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rubber and misc. plastics products	241	244	246	247	249	250	250	252	257	261	263	268	267
Leather and leather products	139	138	137	137	137	137	138	137	137	139	139	144	141
SERVICE-PRODUCING	31,548	31,689	31,719	31,792	31,862	31,974	32,063	32,108	32,109	32,173	32,328	32,453	32,483
TRANSPORTATION AND PUBLIC UTILITIES	1,290	1,295	1,312	1,307	1,311	1,310	1,314	1,318	1,327	1,329	1,335	1,340	1,345
WHOLESALE AND RETAIL TRADE	8,915	8,936	8,935	8,941	8,946	8,998	9,031	9,051	8,990	9,024	9,166	9,207	9,237
WHOLESALE TRADE	1,367	1,371	1,374	1,370	1,378	1,375	1,378	1,377	1,388	1,389	1,388	1,393	1,403
RETAIL TRADE	7,548	7,565	7,561	7,571	7,568	7,623	7,653	7,674	7,602	7,635	7,778	7,814	7,834
FINANCE, INSURANCE, AND REAL ESTATE	3,054	3,065	3,078	3,089	3,103	3,120	3,130	3,138	3,153	3,169	3,172	3,184	3,185
SERVICES	10,526	10,582	10,613	10,671	10,720	10,765	10,803	10,830	10,882	10,906	10,924	10,979	10,994
GOVERNMENT	7,763	7,811	7,781	7,784	7,782	7,781	7,785	7,771	7,757	7,745	7,731	7,743	7,722
FEDERAL	893	879	883	886	887	887	885	878	877	877	876	878	877
STATE AND LOCAL	6,870	6,932	6,898	6,898	6,895	6,894	6,900	6,893	6,880	6,868	6,855	6,865	6,845

¹ This series is not published seasonally adjusted since the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. p	Oct. P
TOTAL PRIVATE	60,464	60,598	60,667	60,807	60,870	60,961	61,114	61,179	61,292	61,585	61,622	61,775	61,563
GOODS-PRODUCING	18,213	18,291	18,278	18,305	18,298	18,346	18,338	18,317	18,387	18,476	18,459	18,455	18,171
MINING	763	779	791	800	806	813	689	694	819	834	850	853	851
CONSTRUCTION	3,426	3,431	3,428	3,452	3,439	3,459	3,462	3,376	3,323	3,315	3,315	3,309	3,287
MANUFACTURING	14,024	14,081	14,059	14,053	14,053	14,074	14,187	14,247	14,245	14,327	14,294	14,293	14,033
DURABLE GOODS	8,259	8,320	8,301	8,306	8,297	8,325	8,412	8,442	8,455	8,491	8,485	8,468	8,286
Lumber and wood products	567	569	573	575	576	577	586	593	585	585	571	563	548
Furniture and fixtures	373	373	374	374	376	376	386	392	393	396	395	391	384
Stone, clay, and glass products	506	508	505	504	503	501	506	507	506	508	510	505	496
Primary metal industries	847	864	874	876	879	879	884	880	882	879	883	877	861
Fabricated metal products	1,165	1,169	1,168	1,166	1,164	1,169	1,178	1,184	1,187	1,197	1,193	1,190	1,162
Machinery, except electrical	1,579	1,581	1,577	1,577	1,573	1,575	1,580	1,594	1,602	1,605	1,618	1,624	1,620
Electric and electronic equipment	1,310	1,316	1,322	1,324	1,326	1,334	1,345	1,353	1,354	1,365	1,364	1,364	1,351
Transportation equipment	1,189	1,215	1,182	1,183	1,176	1,190	1,218	1,210	1,218	1,213	1,217	1,220	1,132
Instruments and related products	422	422	423	422	419	420	422	423	422	427	426	427	425
Miscellaneous manufacturing ind.	301	303	303	305	305	304	307	306	306	316	308	307	307
NONDURABLE GOODS	5,765	5,761	5,758	5,747	5,756	5,749	5,775	5,805	5,790	5,836	5,809	5,825	5,747
Food and kindred products	1,177	1,170	1,166	1,162	1,168	1,158	1,164	1,170	1,144	1,160	1,140	1,141	1,124
Tobacco manufactures	54	55	55	55	55	56	56	55	56	55	57	55	55
Textile mill products	734	732	731	729	727	727	729	731	733	742	736	738	723
Apparel and other textile products	1,073	1,071	1,068	1,062	1,061	1,061	1,065	1,071	1,077	1,092	1,082	1,089	1,073
Paper and allied products	520	521	521	521	520	519	521	523	524	525	526	531	521
Printing and publishing	703	704	707	705	707	708	709	710	709	711	714	717	716
Chemicals and allied products	619	621	622	623	625	626	627	629	632	630	630	633	628
Petroleum and coal products	134	134	133	134	134	134	134	135	133	133	132	131	133
Rubber and misc. plastics products	556	558	561	562	564	566	575	584	585	586	592	590	575
Leather and leather products	195	195	194	194	195	194	195	197	197	202	200	200	199
SERVICE-PRODUCING	42,251	42,307	42,389	42,502	42,572	42,615	42,776	42,862	42,905	43,109	43,163	43,320	43,392
TRANSPORTATION AND PUBLIC UTILITIES	4,275	4,260	4,265	4,264	4,270	4,268	4,291	4,272	4,269	4,284	4,284	4,306	4,305
WHOLESALE AND RETAIL TRADE	17,933	17,932	17,932	17,982	18,013	18,031	18,027	18,084	18,093	18,200	18,230	18,266	18,290
WHOLESALE TRADE	4,320	4,318	4,324	4,324	4,329	4,330	4,342	4,352	4,350	4,367	4,370	4,366	4,361
RETAIL TRADE	13,613	13,614	13,608	13,658	13,684	13,701	13,685	13,732	13,743	13,833	13,860	13,900	13,929
FINANCE, INSURANCE, AND REAL ESTATE	3,950	3,960	3,972	3,986	3,992	3,996	4,017	4,024	4,030	4,037	4,047	4,047	4,039
SERVICES	16,093	16,155	16,220	16,270	16,297	16,320	16,441	16,482	16,513	16,588	16,602	16,701	16,758

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

p: preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

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

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
1978				
January.....	66.3	77.0	80.8	79.9
February.....	66.3	76.5	82.8	82.8
March.....	72.1	80.2	83.7	82.3
April.....	73.3	78.2	77.9	85.2
May.....	65.4	78.2	80.2	83.7
June.....	70.6	73.0	78.2	83.4
July.....	62.5	71.2	74.1	81.7
August.....	66.9	69.5	77.3	80.8
September.....	67.2	72.1	77.0	79.4
October.....	66.3	76.2	79.4	75.0
November.....	72.4	76.7	73.3	77.6
December.....	70.9	77.6	74.7	75.0
1979				
January.....	65.1	72.1	72.1	74.7
February.....	66.0	68.6	71.8	70.6
March.....	64.2	65.7	70.1	69.5
April.....	54.1	65.7	64.8	67.2
May.....	60.5	62.8	59.6	59.6
June.....	62.5	63.7	54.4	58.1
July.....	57.0	55.5	56.7	55.8
August.....	53.2	50.0	51.5	55.2
September.....	49.1	53.5	52.0	50.0
October.....	61.6	52.0	50.6	46.2
November.....	49.4	53.5	51.2	38.1
December.....	49.7	49.4	47.7	35.8
1980				
January.....	52.6	50.6	40.4	32.0
February.....	53.2	46.8	33.4	32.6
March.....	49.4	38.7	30.8	31.7
April.....	34.6	30.8	24.7	32.3
May.....	32.8	27.0	26.2	31.4
June.....	31.4	25.9	28.2	31.4
July.....	36.9	35.5	35.2	31.4
August.....	64.8	54.9	45.1	32.6
September.....	64.0	71.2	61.0	34.9
October.....	61.3	69.8	73.5	43.6
November.....	63.4	64.8	72.7	55.8
December.....	56.7	64.0	65.4	70.3
1981				
January.....	59.6	61.0	68.6	78.8
February.....	55.8	61.3	68.6	75.6
March.....	52.3	64.2	67.2	73.5p
April.....	69.8	68.9	70.3	65.7p
May.....	62.5	66.9	67.7	
June.....	51.5	68.6	71.2p	
July.....	67.2	60.2	53.2p	
August.....	49.7	64.8p		
September.....	57.0p	42.2p		
October.....	33.1p			
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		
	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P
1 ALABAMA	1,349.9	1,344.9	1,347.5	16.9	17.1	17.1	73.8	70.1	69.7	354.4	357.4	358.2
2 Birmingham	351.1	348.4	349.6	9.7	9.5	9.5	20.3	20.0	19.6	61.4	59.8	60.1
3 Huntsville	119.7	121.7	122.0	(1)	(1)	(1)	4.2	4.2	4.1	35.7	36.3	36.6
4 Mobile	147.3	152.2	151.5	(1)	(1)	(1)	11.8	9.4	9.2	26.5	31.4	31.6
5 Montgomery	107.4	105.0	106.0	(1)	(1)	(1)	6.7	6.5	6.4	16.0	16.1	15.8
8 Tuscaloosa	50.0	48.6	49.0	2.3	2.3	2.3	2.4	2.4	2.3	8.4	8.0	8.2
7 ALASKA	178.2	189.7	186.3	6.9	7.7	7.5	13.3	15.7	15.9	15.1	17.5	13.3
8 ARIZONA	990.0	993.1	1,012.2	12.9	25.0	24.8	74.1	68.1	67.6	151.6	158.6	158.1
9 Phoenix	628.1	624.0	635.0	.4	.4	.4	49.8	47.1	47.0	112.6	116.0	115.7
10 Tucson	180.0	182.9	187.2	4.7	7.7	7.6	13.8	12.4	12.2	21.2	23.8	23.6
11 ARKANSAS	753.5	749.2	759.2	5.2	5.5	5.4	39.5	37.7	36.5	209.4	216.2	214.6
12 Fayetteville—Springdale	65.0	64.9	66.1	(1)	(1)	(1)	2.9	2.8	2.8	19.0	20.2	20.2
13 Fort Smith	66.3	67.0	67.4	1.0	1.2	1.2	2.8	2.6	2.5	20.5	22.3	21.7
14 Little Rock—North Little Rock	180.4	181.3	181.7	(1)	(1)	(1)	9.5	9.8	9.4	30.5	29.2	29.4
15 Pine Bluff	33.2	31.7	32.6	(1)	(1)	(1)	3.1	2.5	2.5	6.2	6.4	6.4
16 CALIFORNIA	9,855.1	9,901.0	9,986.1	43.2	46.1	46.3	439.2	395.2	390.9	2,025.8	2,020.1	2,010.9
17 Anaheim—Santa Ana—Garden Grove	837.4	858.4	862.1	2.4	2.6	2.6	50.4	50.4	50.5	222.1	223.5	223.6
18 Bakersfield	131.3	135.2	135.1	11.2	12.3	12.1	7.8	7.8	7.8	9.5	10.2	10.3
19 Fresno	186.0	182.9	186.7	1.0	1.1	1.1	11.3	11.1	10.9	24.9	23.8	24.1
20 Los Angeles—Long Beach	3,586.4	3,639.2	3,660.9	13.2	14.2	14.2	123.8	113.4	111.4	907.3	905.9	908.0
21 Modesto	94.2	94.3	93.4	.1	.1	.1	5.5	4.8	4.5	25.6	26.3	25.2
22 Oxnard—Simi Valley—Ventura	153.1	155.6	156.3	2.7	2.9	2.9	8.6	8.4	8.4	25.2	25.4	25.9
23 Riverside—San Bernardino—Ontario	429.1	429.3	436.3	1.6	2.3	2.3	26.2	25.8	25.8	62.7	63.6	63.6
24 Sacramento	404.1	403.0	409.1	.5	.5	.5	19.3	17.3	17.5	30.8	31.9	31.0
25 Salinas—Seaside—Monterey	88.8	89.9	91.2	.4	.4	.4	3.3	3.2	3.2	9.1	9.1	9.2
28 San Diego	647.5	652.4	655.2	.6	.6	.6	37.7	36.9	36.6	108.7	107.1	107.2
27 San Francisco—Oakland	1,562.6	1,578.2	1,584.2	3.3	3.8	3.8	74.8	73.5	72.7	205.3	203.2	202.9
28 San Jose	684.7	692.9	694.1	.2	.2	.2	25.9	24.5	24.1	250.1	249.2	248.7
29 Santa Barbara—Santa Maria—Lompoc	122.4	121.8	122.7	1.5	1.6	1.6	5.2	4.9	4.9	16.6	16.2	16.2
30 Santa Rosa	93.2	92.4	93.1	.5	.5	.4	6.3	5.6	5.6	15.2	15.5	15.2
31 Stockton	125.0	121.9	124.2	.1	.1	.1	5.8	5.1	5.1	25.9	26.1	25.0
32 Vallejo—Fairfield—Napa	100.5	103.7	102.9	.5	.6	.6	5.3	5.0	4.9	11.5	12.1	12.1
33 COLORADO	1,256.5	1,275.3	1,278.4	35.4	38.1	37.6	80.5	78.6	79.0	181.9	187.3	187.3
34 Denver—Boulder	802.3	814.2	818.5	19.1	21.4	21.2	48.9	47.7	47.9	125.6	129.3	129.7
35 CONNECTICUT	1,422.1	1,419.3	1,432.3	(2)	(2)	(2)	51.1	53.4	52.3	435.8	429.3	435.8
36 Bridgeport	173.0	170.1	173.4	(2)	(2)	(2)	4.7	4.6	4.5	64.9	66.8	66.9
37 Hartford	400.0	393.9	400.8	(2)	(2)	(2)	14.5	13.7	13.5	99.8	93.8	96.8
38 New Britain	64.9	64.1	65.7	(2)	(2)	(2)	2.4	2.4	2.4	29.7	28.9	29.6
39 New Haven—West Haven	195.6	188.6	193.5	(2)	(2)	(2)	8.0	7.8	7.9	42.5	38.5	39.2
40 Stamford	109.2	111.5	112.0	(2)	(2)	(2)	6.0	6.0	6.0	31.2	31.1	30.8
41 Waterbury	89.0	88.3	89.2	(2)	(2)	(2)	3.1	2.5	2.8	33.1	32.7	33.3
42 DELAWARE	259.3	259.2	259.7	(1)	(1)	(1)	15.0	14.7	14.4	73.6	68.7	72.4
43 Wilmington	229.4	227.5	229.8	(1)	(1)	(1)	15.8	15.3	15.1	67.0	61.8	65.8
44 DISTRICT OF COLUMBIA	613.4	623.9	604.4	(1)	(1)	(1)	13.7	13.7	13.5	15.5	14.3	14.3
45 Washington SMSA	1,567.7	1,609.0	1,594.0	(1)	(1)	(1)	76.6	74.9	73.5	55.8	55.8	55.9
46 FLORIDA	3,557.9	3,705.5	3,737.2	10.5	10.5	10.5	277.9	286.7	277.9	455.7	472.4	474.0
47 Bradenton	42.8	41.1	41.5	-	-	-	4.0	3.1	3.0	7.2	6.9	7.0
48 Daytona Beach	76.5	78.0	77.8	(1)	(1)	(1)	4.8	4.9	4.7	8.3	8.1	8.1
49 Fort Lauderdale—Hollywood	345.9	344.6	345.5	(1)	(1)	(1)	32.2	31.5	31.8	41.4	39.7	40.3
50 Fort Myers—Cape Coral	63.3	63.2	65.4	(1)	(1)	(1)	8.2	8.1	7.9	3.6	3.7	3.8
51 Gainesville	62.3	67.2	67.8	(1)	(1)	(1)	4.1	4.0	3.8	4.6	4.9	4.9
52 Jacksonville	293.8	295.2	295.0	(1)	(1)	(1)	15.9	16.6	16.6	34.4	35.4	35.0
53 Lakeland—Winter Haven	113.0	112.9	113.4	5.8	5.8	5.7	9.0	9.1	9.0	20.2	20.4	20.5
54 Melbourne—Titusville—Cocoa	101.9	103.5	103.9	(1)	(1)	(1)	6.3	6.7	6.7	22.8	23.6	23.7
55 Miami	727.0	719.4	724.7	(1)	(1)	(1)	38.9	35.6	35.4	101.2	100.3	100.3
56 Orlando	285.1	296.1	294.2	(1)	(1)	(1)	19.4	21.3	20.9	35.8	36.8	37.2
57 Panama City	33.1	33.1	33.4	(1)	(1)	(1)	2.1	2.1	2.1	3.6	3.5	3.5
58 Pensacola	96.5	100.3	101.1	(1)	(1)	(1)	6.7	7.7	7.5	12.6	12.7	12.6
59 Sarasota	68.1	72.3	71.2	(1)	(1)	(1)	7.0	7.3	7.2	6.0	6.3	6.3
60 Tallahassee	74.1	73.0	74.0	(1)	(1)	(1)	3.8	3.8	3.5	2.9	2.8	2.8
81 Tampa—St. Petersburg	540.1	549.1	554.6	(1)	(1)	(1)	39.4	41.2	41.3	74.5	76.9	77.3
62 West Palm Beach—Boca Raton	206.6	206.0	208.6	(1)	(1)	(1)	20.8	20.0	19.7	28.9	28.1	28.2

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			
SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	
71.1	71.6	71.3	272.9	271.9	271.7	58.8	58.6	58.2	206.3	208.0	209.2	295.7	290.2	292.1	1
29.2	29.1	29.1	82.9	84.0	84.1	22.9	22.9	22.9	67.4	69.2	69.1	57.3	53.9	55.2	2
2.6	2.6	2.6	21.6	21.8	22.0	3.5	3.5	3.5	17.5	18.5	18.4	34.6	34.8	34.8	3
10.6	10.9	10.6	36.4	37.1	36.4	7.1	7.5	7.4	28.9	29.7	30.0	26.0	26.2	26.7	4
4.9	4.7	4.7	23.6	23.8	23.8	6.3	6.2	6.2	20.5	20.3	20.5	29.4	27.4	28.6	5
1.8	1.7	1.7	9.6	9.6	9.6	1.7	1.7	1.6	6.3	6.0	6.1	17.5	16.9	17.2	6
17.8	19.1	19.2	30.5	32.1	32.0	8.3	8.8	8.6	31.4	32.5	32.5	54.9	56.3	57.3	7
49.7	51.2	51.1	239.3	240.9	243.8	57.5	60.2	60.3	204.6	207.5	208.2	200.3	181.6	198.3	8
30.1	31.3	31.2	155.6	160.1	161.4	44.8	46.9	47.2	130.3	132.3	133.6	100.5	89.9	98.5	9
8.6	8.6	8.6	40.4	40.8	41.5	8.1	8.6	8.5	39.5	40.6	41.0	43.7	40.4	44.2	10
43.7	43.5	44.2	162.4	165.5	165.9	31.4	32.4	32.2	119.0	120.0	119.9	143.3	128.4	140.5	11
3.9	3.8	3.8	15.9	16.0	16.1	2.3	2.3	2.3	9.6	9.4	9.7	11.4	10.4	11.2	12
3.7	3.8	3.8	14.1	14.5	14.6	2.5	2.5	2.5	12.7	12.2	12.2	9.0	7.9	8.9	13
13.7	14.0	13.9	42.2	42.3	42.4	12.4	12.7	12.7	34.1	35.7	35.4	38.0	37.6	38.5	14
3.9	4.0	4.0	6.6	6.5	6.5	1.4	1.3	1.3	5.0	5.0	5.1	7.0	6.0	6.8	15
551.4	556.8	558.2	2,287.4	2,328.8	2,347.1	624.5	635.8	637.6	2,165.3	2,263.5	2,281.8	1,718.3	1,654.7	1,713.3	18
27.9	29.2	29.4	203.4	211.5	211.2	57.0	60.0	60.1	174.5	184.6	183.7	99.7	96.6	101.0	17
7.9	8.0	8.0	33.9	34.4	34.2	4.8	5.1	5.1	24.1	24.8	24.9	32.1	32.6	32.7	18
11.4	10.6	10.6	50.5	52.1	52.4	10.9	11.2	11.2	36.6	37.3	37.6	39.4	35.7	38.8	19
201.2	203.6	203.6	817.0	834.6	840.2	233.9	238.4	238.2	810.9	861.9	869.8	479.1	467.2	475.5	20
4.2	4.0	4.1	22.0	21.9	22.5	3.4	3.5	3.5	17.1	17.7	17.7	16.3	16.0	15.8	21
6.7	6.2	6.3	36.1	37.4	37.1	7.5	7.6	7.6	31.0	32.3	32.5	35.3	35.4	35.6	22
26.0	26.2	26.2	106.7	109.3	108.9	18.5	18.7	18.7	89.1	90.0	91.5	98.3	93.4	99.3	23
22.0	22.6	22.7	95.1	96.8	98.4	22.7	23.3	23.3	74.5	75.0	75.2	139.2	135.6	140.5	24
5.0	5.1	5.0	23.2	24.3	24.4	4.4	4.4	4.4	19.9	20.6	20.6	23.5	22.8	24.0	25
28.8	28.7	28.6	148.4	149.6	150.2	38.5	39.7	39.5	150.3	157.4	157.3	134.5	132.4	135.2	26
130.4	133.2	133.2	362.1	368.7	371.3	147.0	150.0	150.2	354.8	361.6	364.5	284.9	284.2	285.6	27
22.1	22.7	22.9	127.6	131.1	132.0	27.4	28.2	28.2	153.9	161.2	160.1	77.5	75.8	77.9	28
5.1	5.2	5.2	30.2	30.2	30.2	5.6	5.7	5.7	34.4	34.7	34.9	23.7	23.3	24.0	29
4.6	4.6	4.5	22.8	23.6	23.7	5.7	5.7	5.7	18.6	18.5	18.6	19.5	18.4	19.4	30
8.4	8.0	8.3	28.5	28.5	28.8	5.0	5.1	5.1	24.3	24.4	24.9	27.0	24.6	26.9	31
4.9	4.9	4.9	21.5	23.2	23.2	3.3	3.3	3.3	19.0	19.8	19.6	34.5	34.8	34.3	32
80.8	83.7	83.3	307.5	313.9	313.4	77.0	80.5	79.8	254.9	265.8	261.9	238.6	227.3	236.1	33
56.8	58.6	58.5	193.3	196.9	196.7	54.5	57.2	56.8	168.6	175.0	173.2	135.5	128.0	134.5	34
61.6	58.3	60.7	301.3	297.2	300.0	105.3	111.3	110.4	288.9	297.9	298.6	178.1	171.9	174.5	35
6.3	6.1	6.2	37.5	36.3	37.0	7.4	7.4	7.4	34.6	34.6	34.9	17.6	14.3	16.5	36
14.1	13.4	14.3	82.4	81.9	83.2	61.3	63.6	63.0	75.1	76.8	77.5	52.8	50.7	52.5	37
3.3	3.1	3.3	11.0	10.9	11.2	1.8	1.9	1.8	10.6	10.9	11.1	6.1	6.0	6.3	38
16.3	15.5	16.2	41.5	42.3	42.9	10.9	11.2	11.0	50.8	50.2	50.9	25.6	23.1	25.4	39
4.2	4.5	4.5	23.6	24.7	24.6	7.6	8.0	8.0	26.6	27.9	27.7	10.0	9.3	10.4	40
3.2	3.0	3.2	15.7	15.8	16.0	3.5	3.6	3.5	19.7	20.2	19.7	10.7	10.1	10.7	41
12.3	12.0	12.3	56.9	56.7	56.3	11.9	12.2	12.1	47.7	50.5	49.1	41.9	44.5	43.1	42
11.9	11.8	11.9	47.3	46.7	47.2	11.1	11.5	11.3	42.4	45.2	44.1	33.8	35.2	34.4	43
25.5	26.0	25.8	64.8	65.0	64.7	35.8	36.0	35.8	179.2	183.5	186.1	278.9	285.4	264.2	44
67.7	68.8	68.3	302.5	310.1	312.4	92.2	96.3	95.2	426.7	449.2	451.7	546.2	553.9	537.0	45
216.8	224.3	222.7	920.5	971.3	970.0	254.9	268.4	265.6	812.2	879.2	882.5	609.4	592.7	634.0	46
1.5	1.5	1.5	11.0	10.4	10.5	2.9	3.3	3.4	8.1	8.4	8.5	8.1	7.5	7.6	47
3.2	3.2	3.2	21.1	22.6	22.0	4.3	4.7	4.7	20.4	21.3	20.6	14.4	13.2	14.5	48
16.7	17.2	17.0	100.1	97.4	98.4	28.5	28.4	28.0	81.8	82.9	82.8	45.2	47.5	47.2	49
3.7	4.3	4.3	17.8	17.8	17.8	5.8	6.3	6.3	13.2	13.9	13.9	11.0	9.1	11.4	50
1.6	1.8	1.7	13.7	14.6	14.7	2.7	2.8	2.8	10.7	11.7	11.8	24.9	27.4	28.1	51
23.8	24.3	24.2	75.1	77.0	77.1	27.8	27.2	26.9	62.7	65.6	65.9	54.1	49.1	53.3	52
4.9	4.9	4.9	27.7	27.3	27.2	6.6	6.5	6.5	22.5	22.5	22.4	16.3	16.4	17.2	53
4.6	4.5	4.5	20.9	21.1	21.0	4.0	3.9	3.9	24.4	25.0	25.2	18.9	18.7	18.9	54
72.2	72.3	71.9	188.6	187.6	187.7	52.8	54.4	54.1	175.7	180.5	180.6	97.6	88.7	94.7	55
14.9	14.5	14.5	74.8	78.2	76.7	19.6	20.8	20.8	80.0	83.0	81.5	40.6	41.5	42.6	56
2.0	1.9	1.9	8.6	9.0	8.7	1.7	1.8	1.8	6.6	6.8	6.7	8.5	8.0	8.7	57
5.1	5.1	5.1	21.8	23.1	22.8	4.3	4.3	4.2	21.3	22.8	22.3	24.7	24.6	26.6	58
3.0	3.0	3.0	18.9	19.8	19.3	5.9	6.5	6.4	17.3	19.1	18.7	10.0	10.3	10.3	59
2.4	2.5	2.5	14.6	14.2	14.2	3.5	3.6	3.6	12.7	13.3	13.3	34.2	32.8	34.1	60
30.1	31.3	31.3	146.5	148.1	147.2	39.0	40.7	40.4	129.3	133.4	133.7	81.3	77.5	83.4	61
8.3	8.7	8.7	51.2	51.1	51.3	17.3	16.8	16.8	49.5	51.0	52.1	30.6	30.3	31.8	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P
1 GEORGIA	2,147.9	2,156.1	2,160.3	7.7	7.8	7.8	104.4	99.7	98.8	514.5	519.8	521.7
2 Albany	43.8	45.2	45.2	(1)	(1)	(1)	3.1	3.2	3.2	10.4	11.0	10.9
3 Atlanta	960.1	963.5	966.8	(1)	(1)	(1)	47.0	42.1	40.8	143.8	140.8	142.4
4 Augusta	122.3	122.9	123.4	(1)	(1)	(1)	5.5	5.0	4.9	35.4	35.9	36.0
5 Columbus	79.9	79.4	78.5	(1)	(1)	(1)	4.0	4.1	3.9	20.9	20.7	20.8
6 Macon	97.0	97.6	97.0	(1)	(1)	(1)	5.3	4.7	4.7	15.5	16.5	16.3
7 Savannah	83.8	86.8	86.9	(1)	(1)	(1)	5.6	6.5	6.5	16.8	17.3	17.4
8 HAWAII	368.7	404.3	394.4	(1)	(1)	(1)	17.3	24.1	23.8	22.7	23.5	22.1
9 Honolulu	315.8	334.2	325.8	(1)	(1)	(1)	14.3	20.8	20.6	16.1	17.4	16.0
10 IDAHO	336.7	324.6	(*)	4.6	5.2	(*)	18.1	18.2	(*)	56.2	52.3	(*)
11 Boise City	80.1	77.0	(*)	(1)	(1)	(*)	5.8	5.5	(*)	8.4	9.1	(*)
12 ILLINOIS	4,884.3	4,843.4	4,850.6	33.0	32.0	32.0	206.3	183.0	185.1	1,210.4	1,184.1	1,185.8
13 Bloomington—Normal	50.2	48.7	50.7	(2)	(2)	(2)	2.0	1.9	1.8	6.5	6.5	6.9
14 Champaign—Urbana—Rantoul	76.2	70.5	75.6	(2)	(2)	(2)	1.8	1.9	1.9	7.6	7.7	7.8
15 Chicago—Gary	3,505.2	3,468.9	3,465.2	5.0	5.0	5.1	147.0	117.9	118.1	907.0	894.7	898.4
16 Chicago SMSA	3,256.7	3,217.3	3,214.7	4.9	4.9	5.0	131.6	102.8	102.9	816.7	803.2	808.1
17 Davenport—Rock Island—Moline	163.9	162.8	161.6	(2)	(2)	(2)	7.7	8.0	8.0	49.8	47.7	46.5
18 Decatur	54.9	55.4	55.1	(2)	(2)	(2)	2.5	2.4	2.4	19.4	19.7	19.7
19 Kankakee	35.1	33.5	33.7	(2)	(2)	(2)	1.9	1.9	1.9	9.5	8.8	8.7
20 Peoria	152.5	149.0	149.5	(2)	(2)	(2)	8.0	7.4	7.4	50.5	48.7	48.8
21 Rockford	118.6	116.5	117.9	(2)	(2)	(2)	3.8	3.9	3.9	50.4	49.9	50.2
22 Springfield	86.5	91.5	87.1	(2)	(2)	(2)	4.5	4.3	4.2	5.9	6.6	6.4
23 INDIANA	2,141.3	2,115.7	2,130.5	10.4	9.8	9.9	96.7	95.5	93.5	651.9	664.1	669.3
24 Anderson	45.3	44.9	45.5	(1)	(1)	(1)	1.1	1.2	1.1	19.2	19.4	19.7
25 Elkhart	68.0	68.6	68.8	-	-	-	2.3	2.3	2.2	34.3	35.1	35.3
26 Evansville	128.0	128.3	127.2	3.0	2.8	2.9	7.4	7.4	7.4	36.6	36.4	35.7
27 Fort Wayne	175.9	174.2	175.0	(1)	(1)	(1)	8.8	8.6	8.3	54.8	55.1	55.1
28 Gary—Hammond—East Chicago ³	248.5	251.6	250.5	(1)	(1)	(1)	15.4	15.1	15.2	90.3	91.5	90.3
29 Indianapolis	535.6	532.3	534.8	(1)	(1)	(1)	24.5	24.1	23.7	122.4	122.2	123.2
30 Lafayette—West Lafayette	58.4	53.6	58.8	(1)	(1)	(1)	2.5	3.1	2.9	11.2	11.4	11.3
31 Muncie	49.8	46.5	49.1	(1)	(1)	(1)	1.7	1.5	1.4	13.4	12.4	12.5
32 South Bend	108.0	104.7	106.6	(1)	(1)	(1)	4.8	4.4	4.4	30.3	30.7	30.8
33 Terre Haute	65.8	59.4	62.2	1.4	1.4	1.5	4.2	3.5	3.4	16.1	14.8	15.2
34 IOWA	1,099.3	1,060.0	1,082.7	2.4	2.1	2.1	50.5	45.5	44.7	236.3	231.2	235.4
35 Cedar Rapids	83.7	80.7	80.5	(1)	(1)	(1)	3.8	3.7	3.7	27.0	26.0	26.1
36 Des Moines	177.3	174.5	175.3	(1)	(1)	(1)	7.3	6.5	6.4	23.7	23.4	24.2
37 Dubuque	42.9	42.0	42.5	(1)	(1)	(1)	1.6	1.4	1.3	14.6	14.2	14.3
38 Sioux City	48.4	47.0	47.7	(1)	(1)	(1)	2.4	2.2	2.1	8.8	8.8	8.9
39 Waterloo—Cedar Falls	65.3	62.9	65.3	(1)	(1)	(1)	2.6	1.9	1.9	21.7	21.7	22.9
40 KANSAS	548.2	944.6	958.3	15.6	17.5	17.3	48.0	44.1	43.4	183.1	185.8	184.5
41 Lawrence	29.0	26.8	28.7	(2)	(2)	(2)	1.0	1.1	1.1	4.7	4.7	4.7
42 Topeka	84.8	84.6	84.5	.2	.2	.2	3.7	3.4	3.3	9.4	9.5	9.4
43 Wichita	204.0	205.6	207.2	3.1	3.7	3.6	10.6	10.5	10.7	62.3	62.7	62.2
44 KENTUCKY	1,206.7	1,188.4	1,196.3	53.1	53.1	53.6	62.0	58.7	58.6	267.9	271.8	274.7
45 Lexington—Fayette	142.6	141.3	143.2	(1)	(1)	(1)	6.5	5.4	5.3	28.7	29.6	29.4
46 Louisville	389.5	387.3	391.2	(1)	(1)	(1)	17.7	17.9	17.4	98.5	93.4	98.2
47 Owensboro	30.9	31.0	30.8	.9	1.0	1.0	2.2	1.9	1.8	6.8	7.1	7.2
48 LOUISIANA	1,588.4	1,635.0	1,648.4	88.6	95.7	94.8	148.4	159.4	158.5	214.2	216.0	216.9
49 Alexandria	52.6	52.2	53.3	(1)	(1)	(1)	4.2	4.3	4.3	5.9	5.6	5.6
50 Baton Rouge	206.0	209.5	211.6	1.2	1.4	1.4	23.9	23.3	23.6	26.0	26.3	26.4
51 Lafayette	82.0	88.5	89.9	15.7	18.2	18.0	6.0	6.2	6.0	4.5	4.9	5.0
52 Lake Charles	67.5	67.8	67.4	2.1	2.4	2.4	9.8	9.4	9.1	13.6	13.9	13.6
53 Monroe	50.1	48.0	49.1	.5	.5	.5	3.4	3.4	3.2	8.0	7.5	7.7
54 New Orleans	498.1	501.3	501.0	17.7	19.7	19.8	30.6	31.4	31.0	53.4	54.6	54.5
55 Shreveport	147.6	151.4	153.2	5.9	6.3	6.3	8.5	11.7	11.4	27.0	27.7	27.9
56 MAINE	427.6	431.8	423.6	(1)	(1)	(1)	22.6	21.5	21.4	115.1	116.6	114.5
57 Lewiston—Auburn	35.5	34.9	34.2	(1)	(1)	(1)	1.3	1.3	1.3	12.1	11.5	11.3
58 Portland	93.3	94.6	94.0	(1)	(1)	(1)	4.0	3.8	4.0	18.9	18.5	18.4
59 MARYLAND	1,687.5	1,680.1	1,694.4	(1)	(1)	(1)	105.3	95.8	93.8	235.4	231.6	235.9
60 Baltimore	943.0	933.3	937.6	(1)	(1)	(1)	53.4	47.6	45.8	159.2	155.8	157.5

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	
138.9	141.6	141.5	495.6	487.5	487.2	112.5	114.9	114.3	346.3	360.1	359.8	428.1	424.6	429.4	1
2.1	2.1	2.1	9.7	10.2	10.1	1.9	2.0	2.0	6.3	6.7	6.6	10.4	10.1	10.3	2
85.2	88.0	87.6	262.3	262.7	260.9	68.5	69.6	69.4	195.1	205.2	206.0	158.1	155.2	159.8	3
4.2	4.4	4.4	22.2	23.0	23.1	4.5	4.5	4.4	17.9	18.4	18.4	32.5	31.7	32.3	4
3.5	3.4	3.3	16.2	15.4	15.6	5.5	5.7	5.6	11.1	11.4	11.2	18.8	18.7	18.0	5
4.8	4.5	4.5	19.5	19.4	19.3	5.8	6.1	6.1	16.8	16.7	16.7	29.3	29.7	29.4	6
8.1	8.3	8.5	19.6	20.0	19.8	4.1	4.3	4.3	15.3	15.8	15.8	14.4	14.7	14.6	7
31.1	30.6	30.4	103.1	102.7	102.5	33.5	34.5	34.4	99.1	99.0	99.4	81.9	89.9	81.8	8
25.8	25.6	25.4	85.8	84.9	85.0	29.3	30.2	30.2	79.8	79.8	80.1	68.7	75.5	68.5	9
20.5	19.9	(*)	81.1	80.0	(*)	23.5	23.4	(*)	62.2	60.3	(*)	70.5	65.3	(*)	10
5.2	5.0	(*)	20.7	19.4	(*)	8.1	8.2	(*)	15.2	14.2	(*)	16.7	15.6	(*)	11
284.3	281.3	283.1	1,132.6	1,121.0	1,130.9	314.1	315.1	312.2	946.3	971.8	959.1	755.3	755.1	762.4	12
3.2	3.1	3.2	12.3	12.3	12.3	7.6	7.6	7.5	8.3	8.2	8.3	10.3	9.1	10.7	13
2.7	2.7	2.7	19.7	19.2	19.7	2.5	2.5	2.5	11.5	11.7	11.7	30.4	24.8	29.3	14
206.1	211.9	213.5	811.0	788.1	796.2	230.2	232.3	230.7	689.2	698.6	695.2	509.8	520.4	508.0	15
194.4	197.0	198.8	758.9	736.4	744.6	220.8	223.1	221.6	651.6	661.3	657.2	477.8	488.6	476.5	16
6.6	7.1	7.0	40.5	40.8	40.9	7.3	7.2	7.2	25.2	24.5	24.6	26.8	27.5	27.4	17
5.3	5.3	5.3	11.5	11.5	11.5	2.7	2.7	2.7	8.6	8.7	8.6	4.8	5.0	4.8	18
1.4	1.4	1.5	7.0	6.9	6.9	1.2	1.1	1.1	6.5	6.4	6.6	7.6	7.0	7.0	19
7.8	7.9	8.0	35.9	34.7	35.1	7.2	7.1	7.1	25.7	27.1	26.6	17.4	16.1	16.9	20
4.6	4.4	4.4	25.1	24.8	24.7	4.2	4.2	4.2	18.2	17.6	17.9	12.3	11.7	12.6	21
5.0	4.7	4.7	19.1	21.0	19.0	6.6	6.6	6.6	17.4	19.8	18.3	27.9	28.4	27.8	22
103.1	104.7	104.1	477.6	469.8	472.0	102.2	102.5	101.6	341.0	342.8	342.8	358.4	326.6	337.3	23
1.4	1.2	1.3	9.2	9.4	9.4	1.6	1.6	1.6	7.2	7.1	7.2	5.6	5.0	5.2	24
2.0	2.2	2.2	13.4	13.1	13.1	2.1	2.2	2.1	9.0	8.9	9.0	4.9	4.8	4.9	25
7.2	7.1	7.1	30.8	31.3	31.5	4.6	4.7	4.7	25.5	26.1	25.4	12.9	12.5	12.5	26
10.9	11.0	11.0	42.9	42.5	42.8	10.7	10.6	10.5	29.4	29.0	29.4	18.4	17.4	17.9	27
11.7	14.9	14.7	52.1	51.7	51.6	9.4	9.2	9.1	37.6	37.4	38.1	32.0	31.8	31.5	28
31.3	31.4	31.3	132.7	133.3	133.3	38.6	39.1	38.8	96.1	97.7	98.2	90.0	84.5	86.3	29
1.5	1.4	1.4	11.0	10.8	11.2	2.6	2.6	2.5	9.2	9.3	9.4	20.4	15.0	20.1	30
2.0	2.0	2.1	12.1	12.4	12.5	1.5	1.5	1.5	8.3	8.4	8.4	10.8	8.3	10.7	31
4.3	4.6	4.6	27.1	25.4	25.4	5.4	5.3	5.3	23.7	22.6	23.6	12.4	11.7	12.5	32
3.6	3.4	3.4	16.4	15.2	15.1	2.2	2.1	2.0	9.5	9.1	9.5	12.4	9.9	12.1	33
55.2	53.4	53.1	281.9	276.6	277.9	57.8	58.8	58.3	212.5	204.9	212.5	202.7	187.5	198.6	34
3.8	3.7	3.7	18.9	18.0	17.9	4.3	4.3	4.3	15.6	15.5	15.5	10.2	9.6	9.3	35
11.3	11.4	11.4	46.4	46.6	46.7	20.3	21.2	20.9	39.5	38.9	39.4	28.7	26.5	26.4	36
1.6	1.6	1.6	9.3	9.2	9.2	1.3	1.3	1.3	10.4	10.7	10.8	4.0	3.6	4.0	37
3.8	3.7	3.7	12.6	12.2	12.2	2.9	2.8	2.8	11.9	11.7	12.0	6.0	5.5	5.9	38
2.5	2.6	2.6	14.0	14.1	14.3	2.1	2.1	2.0	11.0	10.8	10.9	11.4	9.7	10.7	39
64.0	65.4	65.6	226.9	230.1	230.6	47.2	48.1	47.5	174.2	180.7	180.0	189.2	172.9	189.4	40
1.4	1.4	1.4	5.8	5.3	5.6	.8	.8	.8	4.2	4.3	4.5	11.1	9.4	10.8	41
7.5	7.8	7.8	18.9	19.0	19.0	6.2	6.5	6.4	17.2	17.7	17.8	21.7	20.5	20.6	42
10.8	10.9	10.9	44.8	45.9	46.4	9.2	9.4	9.3	38.9	40.5	40.3	24.3	22.0	23.8	43
68.3	67.4	67.4	258.4	256.6	256.0	52.2	52.8	52.3	210.5	212.6	211.0	234.3	215.4	222.7	44
7.5	7.7	7.6	32.5	32.3	32.9	7.4	7.6	7.6	26.5	26.2	27.0	33.5	32.5	33.4	45
23.6	22.4	22.5	89.2	89.4	89.5	23.3	23.4	23.2	78.4	80.4	81.0	58.7	60.4	59.6	46
2.4	2.5	2.4	6.8	6.9	6.8	1.2	1.3	1.2	5.8	5.7	5.7	4.8	4.6	4.7	47
125.7	128.7	128.1	356.9	364.9	366.8	74.8	76.4	76.1	272.4	284.2	285.4	307.4	309.7	321.8	48
2.5	2.6	2.5	11.2	11.7	11.7	2.8	3.0	3.0	10.8	11.0	11.3	15.2	14.0	14.9	49
11.2	11.7	11.7	45.6	47.5	47.9	11.0	11.4	11.3	33.6	35.5	35.5	53.5	52.4	53.8	50
5.8	6.6	6.7	20.6	22.4	22.5	2.8	3.1	3.1	15.4	16.9	16.9	11.2	10.2	11.7	51
4.0	3.9	3.9	14.6	14.9	15.0	2.8	2.8	2.8	9.7	9.7	10.0	10.9	10.8	10.6	52
2.7	2.8	2.8	13.2	12.9	13.1	3.7	4.0	4.1	7.5	8.2	8.2	10.7	8.7	9.5	53
52.1	52.3	51.6	125.6	125.6	125.6	30.5	30.5	30.4	109.3	108.4	111.3	78.9	78.8	76.8	54
10.2	10.5	10.4	35.9	35.4	35.9	7.3	7.0	7.0	28.2	30.0	29.9	24.6	22.8	24.4	55
19.1	19.8	19.2	91.9	93.2	90.4	16.8	17.2	16.9	61.4	66.8	61.5	80.7	76.7	79.7	56
1.2	1.2	1.2	8.5	8.2	8.2	1.6	1.6	1.6	7.6	8.0	7.7	3.2	3.1	2.9	57
5.4	5.7	5.5	25.1	26.9	26.1	7.4	7.9	7.8	20.2	20.5	20.3	12.3	11.3	11.9	58
85.8	85.3	86.8	414.5	419.5	425.0	94.0	97.4	96.8	365.9	375.9	378.8	386.6	374.6	377.3	59
58.0	57.2	58.4	213.6	209.1	213.0	58.5	60.5	60.2	200.0	212.3	212.9	200.3	190.8	189.8	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		
		SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P
1	MASSACHUSETTS	2,641.1	2,658.4	2,655.0	(1)	(1)	(1)	76.9	73.3	72.4	666.0	666.6	671.2
2	Boston	1,467.5	1,490.7	1,493.1	(1)	(1)	(1)	41.2	45.4	45.0	290.7	293.2	294.1
3	Brockton	57.1	57.1	57.2	(1)	(1)	(1)	1.7	1.4	1.4	12.4	13.0	13.0
4	Fall River	54.5	54.7	54.4	(1)	(1)	(1)	1.6	1.5	1.5	19.8	20.4	20.4
5	Lawrence—Haverhill	113.4	113.1	114.0	(1)	(1)	(1)	3.5	3.4	3.4	44.4	44.4	44.0
6	Lowell	75.4	76.5	76.4	(1)	(1)	(1)	2.9	2.9	2.8	27.5	29.1	29.1
7	New Bedford	63.7	63.5	63.2	(1)	(1)	(1)	1.7	1.8	1.7	25.2	25.4	25.6
8	Springfield—Chicopee—Holyoke	233.8	229.8	234.9	(1)	(1)	(1)	7.2	6.5	6.3	66.1	64.4	65.3
9	Worcester	165.4	162.6	164.3	(1)	(1)	(1)	6.6	6.6	6.5	47.6	47.9	48.0
10	MICHIGAN	3,435.1	3,418.0	3,485.8	11.2	13.2	12.8	124.2	117.1	115.9	994.3	984.8	1,021.3
11	Ann Arbor	136.9	134.5	138.7	(1)	(1)	(1)	3.1	2.7	2.7	42.3	44.6	45.8
12	Battle Creek	64.2	64.2	64.7	(1)	(1)	(1)	2.0	1.9	1.9	21.9	22.2	22.1
13	Bay City	33.0	34.4	34.8	(1)	(1)	(1)	1.0	.9	1.0	8.9	9.3	9.4
14	Detroit	1,687.1	1,657.6	1,689.9	1.3	1.4	1.3	52.8	50.6	50.8	489.0	467.3	489.6
15	Flint	186.5	192.1	194.8	(1)	(1)	(1)	7.1	9.8	9.4	66.4	70.5	72.4
16	Grand Rapids	269.3	272.0	276.4	(1)	(1)	(1)	12.7	12.4	12.3	91.6	93.3	95.0
17	Jackson	51.3	51.2	51.3	(1)	(1)	(1)	1.3	1.2	1.2	14.1	14.6	14.7
18	Kalamazoo—Portage	109.4	105.6	109.7	(1)	(1)	(1)	4.9	4.6	4.5	32.6	32.6	32.6
19	Lansing—East Lansing	188.3	183.3	191.9	(1)	(1)	(1)	7.5	6.4	6.2	37.6	44.2	44.0
20	Muskegon—Norton Shores—Musk. Hts.	57.8	61.5	61.6	(1)	(1)	(1)	2.1	2.1	2.1	18.0	20.7	21.0
21	Saginaw	83.1	83.8	84.6	(1)	(1)	(1)	2.5	2.2	2.1	28.6	29.9	30.6
22	MINNESOTA	1,781.4	1,747.3	1,780.2	16.0	16.4	15.9	85.5	76.9	75.4	375.5	380.0	380.4
23	Duluth—Superior	61.2	59.1	59.5	(1)	(1)	(1)	2.4	1.9	1.9	7.6	7.8	8.0
24	Minneapolis—St. Paul	1,094.7	1,097.1	1,103.7	(1)	(1)	(1)	47.7	40.6	40.1	246.5	250.5	250.1
25	Rochester	50.9	51.3	51.2	(2)	(2)	(2)	2.5	1.5	1.5	10.5	10.9	10.8
26	St. Cloud	56.0	53.2	55.1	(1)	(1)	(1)	3.6	3.3	3.4	12.1	11.8	11.8
27	MISSISSIPPI	829.3	811.3	824.3	11.0	11.3	11.2	45.7	42.1	41.5	218.8	219.8	219.9
28	Jackson	147.3	143.0	145.9	1.4	1.6	1.6	7.7	6.7	6.7	19.0	18.7	19.0
29	MISSOURI	1,975.4	1,967.0	1,980.6	7.7	7.0	7.1	83.2	83.3	81.6	428.7	428.9	430.0
30	Kansas City	624.7	617.2	620.4	.5	.5	.5	25.8	24.1	24.0	117.5	115.8	115.9
31	St. Joseph	37.6	35.7	35.9	(2)	(2)	(2)	2.1	2.2	1.9	9.4	8.3	8.3
32	St. Louis	984.4	974.8	981.4	2.8	2.7	2.8	43.0	42.8	42.0	235.9	231.1	231.9
33	Springfield	85.2	85.3	86.8	(2)	(2)	(2)	3.9	3.9	3.7	17.7	19.4	19.5
34	MONTANA	284.9	286.4	286.3	6.5	8.7	8.6	17.0	17.8	17.5	23.4	24.2	23.8
35	Billings	48.6	47.6	47.6	(1)	(1)	(1)	2.7	2.9	2.8	4.0	4.2	4.1
36	Great Falls	29.7	29.4	29.5	(1)	(1)	(1)	1.9	2.1	1.9	1.4	1.3	1.3
37	NEBRASKA	632.7	628.5	637.2	1.6	1.7	1.7	30.6	27.8	27.2	94.5	96.2	96.1
38	Lincoln	102.2	99.4	101.7	(2)	(2)	(2)	4.1	4.0	3.7	13.4	13.5	13.5
39	Omaha	264.1	263.1	267.0	(2)	(2)	(2)	11.5	10.2	10.0	34.8	35.5	35.6
40	NEVADA	406.1	423.5	425.3	7.2	8.1	8.1	26.7	26.2	25.9	19.5	20.0	20.0
41	Las Vegas	222.2	232.5	234.2	.5	.7	.7	13.7	13.6	13.4	7.0	7.1	7.1
42	Reno	116.9	118.6	119.0	1.1	1.2	1.2	7.7	7.1	7.1	8.3	8.4	8.4
43	NEW HAMPSHIRE	388.8	392.7	391.6	.4	.5	.5	19.4	21.0	21.3	115.8	116.3	116.0
44	Manchester	74.0	73.7	74.4	(2)	(2)	(2)	3.6	3.5	3.5	16.9	17.0	17.0
45	Nashua	64.5	65.5	65.8	(2)	(2)	(2)	2.8	2.9	2.8	30.1	31.2	31.0
46	NEW JERSEY	3,057.3	3,132.6	3,104.0	2.5	2.3	2.4	117.3	118.7	117.3	782.2	778.5	785.3
47	Atlantic City	92.7	107.8	102.1	-	-	-	5.8	4.5	4.3	8.5	8.1	8.0
48	Camden	329.1	332.7	329.2	.1	.1	.1	14.6	14.7	14.3	69.9	70.6	71.1
49	Hackensack	393.4	392.4	392.6	(1)	(1)	(1)	14.6	15.7	15.6	109.6	108.3	108.4
50	Jersey City	230.1	227.7	225.5	-	-	-	4.7	5.6	5.6	69.1	67.5	68.5
51	Long Branch—Asbury Park	162.0	172.8	167.3	(1)	(1)	(1)	6.8	8.7	8.3	25.0	25.7	25.2
52	New Bruns. Perth Amboy—Sayreville	288.1	287.3	286.0	(1)	(1)	(1)	12.1	11.1	10.9	91.1	91.3	91.3
53	Newark	935.7	937.2	936.9	.7	.8	.9	35.9	32.8	32.6	246.9	237.0	242.7
54	Paterson—Clifton—Passaic	187.4	188.4	186.9	(1)	(1)	(1)	7.5	7.1	7.2	67.2	65.3	65.8
55	Trenton	161.0	161.4	163.3	(1)	(1)	(1)	3.6	3.4	3.4	33.3	34.8	35.2
56	Vineland—Millville—Bridgeton	55.6	56.0	54.8	(1)	(1)	(1)	2.0	2.2	2.1	18.5	19.4	18.9
57	NEW MEXICO	464.0	469.0	471.4	29.5	31.4	30.8	30.0	31.0	30.7	34.5	32.8	32.3
58	Albuquerque	186.3	188.8	190.7	(1)	(1)	(1)	12.1	12.3	12.1	17.9	17.2	17.1
59	Las Cruces	29.6	28.4	29.5	-	-	-	1.9	1.8	1.7	2.9	2.7	2.9
60	NEW YORK	7,196.5	7,263.1	7,236.5	6.5	6.8	6.6	222.2	220.1	219.9	1,451.9	1,437.3	1,441.6
61	Albany—Schenectady—Troy	338.8	339.5	336.4	(1)	(1)	(1)	12.6	10.9	10.9	57.8	56.3	56.6
62	Binghamton	116.3	118.2	119.4	(1)	(1)	(1)	4.2	4.5	4.3	41.5	43.9	43.5

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	
123.5	123.2	127.0	572.7	585.6	590.0	161.2	169.5	166.2	640.0	669.7	667.3	400.8	370.5	360.9	1
74.6	73.5	75.2	318.6	312.7	319.9	109.4	114.6	113.8	429.8	452.7	454.3	203.2	198.6	190.8	2
3.8	3.6	3.7	15.9	15.7	16.1	2.0	2.0	1.9	9.8	10.3	10.3	11.5	11.1	10.8	3
1.9	1.9	1.9	11.5	11.6	11.6	2.7	2.8	2.8	9.6	9.3	9.4	7.4	7.2	6.8	4
4.7	4.6	4.8	22.0	21.8	21.9	4.1	4.4	4.3	18.5	18.7	18.9	16.2	15.8	16.7	5
3.4	3.1	3.4	15.6	15.3	15.7	2.1	2.2	2.2	12.2	12.4	12.3	11.7	11.5	10.9	6
2.6	3.0	3.0	12.1	11.7	11.8	2.0	2.0	1.9	9.8	10.1	10.0	10.3	9.5	9.2	7
9.5	9.1	9.5	47.8	46.8	48.0	13.5	14.0	13.8	46.7	46.9	48.2	43.0	42.1	43.8	8
7.2	6.9	7.3	35.2	35.2	35.9	9.2	9.6	9.5	33.3	32.4	33.2	26.3	24.0	23.9	9
149.3	147.8	147.0	738.8	736.1	740.8	156.8	156.2	155.6	656.5	675.7	681.4	603.9	587.1	611.0	10
3.3	3.3	3.3	19.2	18.1	18.1	4.3	4.1	4.1	23.3	23.5	23.5	41.4	38.4	41.2	11
2.4	2.4	2.4	10.9	10.8	10.9	3.8	3.8	3.8	11.0	11.4	11.4	12.2	11.7	12.2	12
1.7	1.7	1.7	8.4	8.5	8.5	1.3	1.3	1.3	7.1	7.7	7.8	4.6	5.1	5.2	13
89.4	79.3	79.4	367.3	370.5	375.9	90.4	90.2	89.7	354.8	361.7	364.4	250.9	236.7	238.7	14
6.0	6.0	6.3	40.6	41.5	41.2	6.6	6.8	6.7	30.0	30.0	30.1	29.8	27.2	28.7	15
11.1	11.5	11.5	62.3	63.1	63.8	10.7	10.7	10.7	48.4	48.9	49.5	32.1	32.1	33.6	16
5.2	5.3	5.2	10.0	10.3	10.3	1.8	1.8	1.8	9.1	9.4	9.4	9.8	8.7	8.7	17
3.8	3.8	3.8	22.2	21.4	21.7	3.7	3.9	3.9	22.0	22.3	22.6	20.1	17.0	20.6	18
5.7	5.6	5.6	34.9	34.7	34.5	9.3	9.4	9.5	29.0	29.7	29.4	64.3	53.3	62.7	19
3.1	3.2	3.2	12.2	12.6	12.5	1.8	1.8	1.8	9.6	10.5	10.1	10.8	10.6	10.9	20
4.9	4.9	4.9	17.7	18.1	18.1	4.1	4.0	4.0	13.9	14.4	14.5	11.4	10.3	10.4	21
101.5	96.7	99.2	443.3	440.2	442.2	95.4	97.5	96.6	374.7	386.7	388.6	289.6	272.7	282.0	22
7.1	6.6	6.7	16.4	15.6	15.7	2.2	2.2	2.2	13.2	13.5	13.5	12.3	11.4	11.5	23
65.3	62.5	64.1	270.7	270.2	272.6	70.8	73.0	72.1	244.0	254.1	256.5	149.7	146.1	148.2	24
1.9	1.9	1.9	9.9	10.2	10.4	1.4	1.4	1.4	19.0	19.6	19.6	5.8	5.7	5.5	25
3.6	3.3	3.3	13.5	13.5	13.4	1.9	2.0	2.0	10.3	10.0	10.7	11.1	9.3	10.5	26
41.3	40.6	40.5	165.1	166.7	166.5	32.9	33.3	33.2	120.9	119.8	122.9	193.6	177.7	188.7	27
10.0	9.8	9.7	34.6	34.3	34.5	11.3	11.2	11.1	28.8	28.3	29.2	34.5	32.4	34.1	28
139.2	137.4	138.9	467.2	472.8	471.5	109.2	112.5	111.5	404.2	415.2	414.9	336.0	309.9	325.1	29
52.1	51.4	51.8	155.3	156.3	157.4	44.6	44.7	44.3	134.2	137.4	136.9	90.7	87.0	89.6	30
2.2	2.1	2.1	9.0	8.5	8.4	1.9	2.0	1.9	7.0	7.2	7.1	6.0	5.4	6.2	31
70.9	70.3	70.5	226.6	225.3	225.5	56.1	56.9	56.3	214.1	220.2	220.4	135.0	125.5	132.0	32
6.5	6.3	6.4	23.1	23.3	23.4	3.4	3.4	3.4	18.6	18.7	18.9	12.0	10.3	11.5	33
23.3	23.3	23.3	73.5	76.0	75.7	13.0	13.0	12.9	57.4	58.3	58.0	70.6	65.1	66.5	34
4.9	4.7	4.7	16.2	16.0	16.0	2.4	2.3	2.3	10.5	10.1	10.0	7.9	7.5	7.7	35
1.9	1.9	1.9	9.7	9.9	9.8	2.0	2.0	2.0	7.0	7.0	7.0	5.8	5.3	5.6	36
47.7	47.6	47.0	165.8	164.9	164.6	43.1	43.6	43.2	118.1	122.1	123.9	131.4	124.6	133.5	37
7.5	7.2	7.2	21.9	21.7	22.2	6.9	7.1	7.0	17.6	17.5	18.0	30.8	28.4	30.1	38
24.3	24.3	24.5	68.0	67.4	67.5	25.0	25.6	25.6	59.1	60.7	61.4	41.4	39.4	42.4	39
24.4	25.6	25.5	80.3	87.5	87.3	17.9	18.6	18.4	172.0	182.9	181.8	58.1	54.6	58.3	40
13.2	14.0	14.0	45.5	45.8	49.8	10.2	10.7	10.6	105.6	111.5	111.5	26.5	25.1	27.1	41
8.3	8.3	8.3	24.9	27.0	26.9	6.2	6.4	6.3	43.6	44.7	44.2	16.8	15.5	16.6	42
14.1	13.6	14.0	87.7	89.4	88.3	19.6	20.0	19.9	75.9	82.2	78.3	55.9	49.7	53.3	43
4.6	4.6	4.6	19.0	18.9	19.2	6.2	6.3	6.2	15.3	15.5	15.7	8.4	7.9	8.2	44
1.9	1.8	2.0	12.7	12.6	12.7	1.9	2.0	2.0	9.6	9.9	9.9	5.5	5.1	5.4	45
193.2	188.6	192.0	681.0	693.7	691.3	157.2	161.7	158.9	618.0	672.7	656.8	506.1	516.4	500.0	46
3.9	4.0	3.9	21.5	23.3	21.3	4.8	5.1	5.1	33.5	47.4	44.9	14.8	15.4	14.6	47
14.9	14.8	14.9	86.2	86.4	86.8	16.7	16.5	16.3	66.6	70.0	68.6	60.1	59.6	57.1	48
20.6	20.0	20.0	115.2	109.7	111.8	16.8	17.9	17.8	74.7	78.8	78.0	41.8	42.0	41.0	49
26.2	24.5	24.3	43.9	42.9	44.0	8.7	8.9	8.4	32.0	31.1	32.4	45.4	47.2	42.7	50
6.1	5.9	6.0	40.7	43.8	42.2	8.2	8.2	8.1	42.9	47.1	45.5	32.5	33.4	32.0	51
23.5	24.5	24.5	65.2	64.6	65.7	10.1	10.7	10.5	42.0	43.7	42.9	44.1	41.4	40.2	52
74.2	73.5	74.2	174.7	174.1	175.5	63.9	65.0	64.3	195.4	203.3	202.8	144.0	150.7	143.9	53
6.7	7.1	6.9	39.4	39.4	39.8	9.1	9.0	8.9	33.7	33.0	32.9	23.8	27.5	25.4	54
5.5	5.3	5.4	25.0	24.5	25.3	7.6	8.0	8.0	42.3	41.2	42.6	43.6	44.2	43.4	55
2.9	2.9	2.9	9.1	8.5	8.4	2.4	2.4	2.4	8.4	8.6	8.5	12.3	12.0	11.6	56
28.8	28.5	29.5	104.5	107.4	108.5	21.0	21.5	21.3	51.4	95.2	92.8	124.3	121.2	125.5	57
11.9	11.8	12.0	47.1	47.7	48.3	10.9	11.2	11.0	42.9	46.0	46.2	42.5	42.6	44.0	58
1.1	1.1	1.2	5.4	5.5	5.5	1.2	1.2	1.2	3.9	3.9	3.9	13.2	12.2	13.1	59
435.1	428.5	434.1	1,474.7	1,466.4	1,480.4	628.6	645.6	641.2	1,713.4	1,771.4	1,762.2	1,264.2	1,287.1	1,250.4	60
16.1	16.1	16.1	68.5	69.0	68.4	15.8	16.0	15.8	71.8	74.8	73.0	96.2	96.3	95.6	61
4.6	4.5	4.5	21.6	21.9	22.3	4.0	4.1	4.0	18.2	20.1	20.1	22.3	19.1	20.7	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P
NEW YORK—Continued												
1 Buffalo	502.4	497.9	499.2	(1)	(1)	(1)	19.3	17.6	17.5	131.6	130.3	131.4
2 Elmira	37.1	37.2	37.1	(1)	(1)	(1)	1.3	1.3	1.2	11.4	11.4	11.3
3 Monroe County	336.1	340.3	340.5	(1)	(1)	(1)	10.2	10.6	10.6	136.0	140.4	139.0
4 Nassau—Suffolk	910.6	926.8	921.5	(1)	(1)	(1)	38.9	38.1	37.6	165.9	165.8	165.9
5 New York—NortheasternNewJersey	6,683.8	6,745.3	(*)	2.8	2.9	(*)	209.8	208.5	(*)	1,344.1	1,309.1	(*)
6 New York and Nassau—Suffolk	4,649.1	4,711.3	4,683.3	1.8	1.8	1.8	135.0	135.8	136.6	760.2	740.8	744.2
7 New York SMSA	3,738.6	3,784.5	3,761.9	1.6	1.6	1.5	96.1	97.6	99.0	594.2	575.0	578.3
8 New York City	3,290.2	3,331.1	3,310.4	1.2	1.2	1.2	76.2	77.7	78.9	501.7	482.8	486.4
9 Poughkeepsie	96.2	98.7	98.7	(1)	(1)	(1)	3.0	2.8	2.7	32.0	33.3	33.1
10 Rochester	414.0	418.2	419.3	(1)	(1)	(1)	12.8	13.3	13.3	158.4	163.4	162.2
11 Rockland County	82.5	84.0	83.2	(1)	(1)	(1)	2.9	2.9	2.9	16.1	15.9	16.2
12 Syracuse	260.4	258.2	260.2	(1)	(1)	(1)	10.3	10.3	10.1	59.3	59.5	59.6
13 Utica—Rome	114.4	115.0	114.9	(1)	(1)	(1)	3.2	3.1	3.0	30.2	30.3	30.8
14 Westchester County	353.5	356.9	356.1	(1)	(1)	(1)	16.3	16.4	16.5	75.2	75.1	74.5
NORTH CAROLINA												
15 Asheville	70.4	71.2	71.0	(1)	(1)	(1)	3.3	3.2	3.2	21.4	21.4	21.5
17 Charlotte—Gastonia	335.6	332.7	336.8	(1)	(1)	(1)	18.0	18.3	17.8	91.6	94.1	94.2
18 Greensboro—Winston-Salem—HighPt.	384.9	383.3	390.9	(1)	(1)	(1)	17.1	17.7	17.5	147.8	149.9	149.6
19 Raleigh—Durham	271.3	261.4	265.7	(1)	(1)	(1)	12.9	12.9	12.4	44.0	44.3	44.2
NORTH DAKOTA												
20 Fargo	247.3	249.0	250.5	8.7	10.9	10.8	18.1	17.1	17.5	14.4	15.4	14.9
21 Fargo—Moorhead	61.8	62.0	61.8	(2)	(2)	(2)	4.4	4.1	4.0	4.6	4.9	4.2
OHIO												
22 Akron	262.9	255.6	260.7	(*)	(*)	(*)	9.1	8.3	8.3	77.6	75.5	77.0
24 Canton	155.2	156.8	156.8	(*)	(*)	(*)	5.9	5.6	5.4	53.8	56.1	56.2
25 Cincinnati	606.3	601.6	607.3	(*)	(*)	(*)	28.5	27.0	26.9	162.6	161.6	162.8
26 Cleveland	899.7	898.0	895.1	(*)	(*)	(*)	35.9	33.4	33.2	248.2	249.9	252.0
27 Columbus	514.0	514.8	518.3	(*)	(*)	(*)	22.8	21.6	21.5	95.9	93.1	94.1
28 Dayton	355.2	350.8	358.4	(*)	(*)	(*)	14.6	12.9	12.6	98.0	99.0	101.3
29 Toledo	293.3	288.9	293.5	(*)	(*)	(*)	14.7	14.2	13.8	76.0	75.9	78.2
30 Youngstown—Warren	201.1	197.3	202.6	(*)	(*)	(*)	7.9	7.4	7.3	68.2	66.6	69.6
OKLAHOMA												
31 Enid	25.4	25.9	25.8	1.9	2.4	2.4	1.7	1.5	1.4	2.9	3.0	2.8
33 Lawton	28.7	28.5	29.4	(1)	(1)	(1)	1.7	1.6	1.6	2.8	3.0	2.9
34 Oklahoma City	404.0	421.6	426.8	18.1	21.1	21.0	20.8	25.3	24.9	54.7	56.3	56.5
35 Tulsa	308.0	321.5	321.3	21.6	24.2	24.1	18.5	19.1	18.8	62.6	66.3	65.9
OREGON												
36 Eugene—Springfield	102.9	99.6	101.0	(1)	(1)	(1)	5.0	4.5	4.7	20.5	19.8	19.6
38 Jackson County	—	—	—	—	—	—	—	—	—	8.2	6.6	—
39 Portland	552.8	537.2	542.2	(1)	(1)	(1)	24.7	20.9	20.3	115.1	109.5	111.5
40 Salem	91.1	88.0	(*)	(1)	(1)	(*)	4.7	3.6	(*)	17.9	18.5	(*)
PENNSYLVANIA												
41 Allentown—Bethlehem—Easton	262.9	260.1	264.8	(1)	(1)	(1)	5.5	9.0	8.7	107.0	106.1	106.6
43 Altoona	50.2	49.7	49.4	(1)	(1)	(1)	2.3	2.3	2.2	12.5	13.1	13.2
44 Delaware Valley	1,542.2	1,571.0	1,550.3	(1)	(1)	(1)	64.5	61.0	60.2	362.4	361.3	361.2
45 Erie	112.2	109.1	110.3	(1)	(1)	(1)	3.8	3.2	3.2	40.8	40.5	41.5
46 Harrisburg	220.7	224.5	223.5	(1)	(1)	(1)	8.9	8.5	8.4	42.3	42.8	42.8
47 Johnstown	83.4	82.7	82.6	8.1	8.2	8.3	3.1	2.7	2.7	17.8	17.7	17.1
48 Lancaster	153.8	154.1	153.6	(1)	(1)	(1)	7.3	7.0	6.9	58.9	60.2	60.5
49 Northeast Pennsylvania	239.8	240.3	237.2	1.2	1.3	1.2	11.8	12.7	13.0	71.2	70.7	70.8
50 Philadelphia—SMSA	1,871.5	1,903.7	1,879.4	(1)	(1)	(1)	79.2	75.7	74.4	432.3	431.9	432.4
51 Philadelphia City	753.7	786.4	756.4	(1)	(1)	(1)	22.0	19.1	18.9	133.2	132.5	133.2
52 Pittsburgh	943.6	952.1	947.5	9.7	9.9	10.0	48.3	50.9	49.9	230.8	238.9	237.0
53 Reading	139.3	139.8	142.8	(1)	(1)	(1)	6.0	6.1	5.9	53.9	54.4	54.9
54 Scranton	87.1	85.5	84.7	(1)	(1)	(1)	2.4	3.0	2.9	28.1	28.1	28.3
55 Wilkes-Barre—Hazleton	122.4	123.6	122.1	1.1	1.2	1.2	8.0	8.4	8.8	38.3	37.7	37.6
56 Williamsport	47.6	46.0	46.2	(1)	(1)	(1)	1.7	1.6	1.6	16.6	15.8	15.8
57 York	156.9	156.2	157.1	(1)	(1)	(1)	7.1	6.8	7.0	65.6	66.4	66.6
RHODE ISLAND												
58 Providence—Warwick—Pawtucket	402.4	399.1	403.8	(1)	(1)	(1)	13.1	13.3	13.2	127.5	126.4	127.7
59	406.4	406.4	410.1	(1)	(1)	(1)	13.3	13.5	13.4	141.1	140.5	141.7
SOUTH CAROLINA												
60 Charleston—North Charleston	146.7	151.7	151.6	(1)	(1)	(1)	10.8	10.5	10.6	19.4	21.8	21.4
62 Columbia	178.0	171.9	176.8	(1)	(1)	(1)	8.4	8.5	8.4	28.0	26.6	27.1
63 Greenville—Spartanburg	262.1	262.0	264.9	(1)	(1)	(1)	17.8	17.4	17.4	102.9	102.0	102.4

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		
SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P
27.3	25.6	26.4	114.2	114.0	114.3	22.6	22.7	22.5	102.6	103.7	104.8	84.7	84.1	82.3
1.4	1.3	1.3	8.6	9.0	9.1	1.0	1.1	1.1	7.1	7.3	7.2	6.3	5.8	5.9
10.3	10.3	10.2	59.1	59.2	59.6	14.4	14.8	14.5	67.8	68.1	69.3	38.3	36.9	37.3
39.2	38.1	40.5	242.1	245.4	247.6	52.1	52.8	52.4	205.6	215.8	210.9	166.7	170.8	166.5
472.0	469.8	(*)	1,398.6	1,381.8	(*)	631.0	647.2	(*)	1,582.1	1,634.0	(*)	1,043.4	1,092.0	(*)
320.8	319.4	322.8	960.0	951.9	963.3	522.5	536.4	534.3	1,204.4	1,242.2	1,234.4	744.4	783.0	745.9
281.6	281.3	282.3	718.0	706.5	715.7	470.4	483.6	481.9	959.0	1,026.7	1,023.7	577.7	612.2	575.4
258.0	257.6	258.6	612.7	601.4	609.0	448.8	461.5	460.2	850.6	911.7	912.8	501.0	537.2	503.5
2.9	2.8	2.8	16.3	16.2	16.3	2.7	2.8	2.8	17.7	18.7	18.5	21.7	22.1	22.5
12.9	12.8	12.7	76.2	76.4	76.8	16.1	16.5	16.2	79.2	79.3	80.3	58.4	56.5	58.0
3.5	3.5	3.5	18.2	18.5	18.7	2.5	2.6	2.5	18.3	19.4	18.0	20.9	21.3	21.4
15.1	14.7	14.8	57.9	58.0	58.2	16.4	16.9	16.6	53.4	50.5	53.4	47.9	48.2	47.5
4.0	3.9	4.0	22.5	22.4	22.5	5.5	5.6	5.5	20.7	21.4	21.2	28.3	28.3	27.9
19.5	19.5	19.6	84.1	83.6	84.9	18.5	19.0	18.7	67.5	92.7	90.4	52.4	50.6	51.4
116.6	116.4	119.0	477.2	475.8	474.0	95.8	97.6	96.8	345.4	357.0	358.0	418.1	360.5	414.3
3.7	3.6	3.7	15.3	15.5	15.4	2.1	2.2	2.1	12.4	14.2	12.9	12.2	11.1	12.2
31.0	31.5	31.6	83.4	82.0	81.8	21.1	21.3	21.2	53.1	53.3	53.8	37.4	32.2	36.4
21.1	21.5	21.6	76.8	76.6	77.1	18.0	18.6	18.6	56.9	58.6	59.3	47.2	40.4	47.2
13.9	14.2	14.2	51.6	51.9	52.4	15.9	15.9	15.7	57.4	55.2	56.1	75.6	67.0	74.7
16.9	16.7	16.8	67.9	68.1	67.3	11.5	12.0	12.0	45.8	51.6	51.8	60.0	57.2	55.4
4.0	3.9	3.9	19.0	19.7	19.3	3.7	3.8	3.7	13.3	13.9	13.9	12.8	11.7	12.8
226.7	221.3	222.2	971.8	969.3	972.8	207.0	210.5	209.6	840.7	865.2	871.2	667.3	632.7	649.7
14.2	13.6	13.7	57.3	56.4	56.5	9.3	9.2	9.1	51.5	53.6	53.0	43.6	38.6	42.5
7.3	7.1	7.1	33.3	33.4	33.4	6.3	6.5	6.5	29.1	29.8	30.0	18.3	17.5	17.2
34.0	33.3	33.5	141.8	142.1	143.2	33.2	33.8	33.6	123.2	127.8	128.9	82.7	75.6	78.1
46.7	45.4	45.8	210.4	207.8	208.7	48.8	49.7	49.2	189.4	190.7	192.5	118.8	119.7	116.4
24.9	25.2	25.3	123.4	125.1	126.3	38.6	40.2	40.0	107.2	111.1	111.6	100.3	97.6	98.7
13.3	13.4	13.4	73.5	72.7	73.4	13.7	14.0	13.8	73.4	74.2	76.2	68.2	64.2	67.3
20.1	19.6	19.7	66.8	65.9	66.1	10.9	11.1	11.1	60.7	62.3	62.3	43.6	39.3	41.7
9.4	9.2	9.2	45.0	44.7	44.7	7.1	7.3	7.3	38.5	39.3	40.0	24.4	22.4	24.1
67.6	69.8	69.2	273.3	286.6	288.8	56.9	58.8	58.4	203.1	216.3	215.4	223.6	204.4	215.9
2.8	2.9	2.9	6.8	7.0	7.0	1.1	1.1	1.1	4.5	4.5	4.4	3.7	3.5	3.8
1.3	1.3	1.4	7.1	7.1	7.1	1.2	1.3	1.3	4.4	4.7	4.7	10.2	9.5	10.4
23.1	25.2	25.2	95.4	106.3	107.7	24.8	26.0	25.9	74.5	80.0	79.4	88.6	81.4	86.2
24.2	24.8	24.5	71.1	74.2	73.9	15.6	16.2	16.1	61.3	64.6	64.8	33.1	32.1	33.2
60.2	59.7	59.8	255.1	254.8	257.3	69.4	68.2	67.1	191.3	192.5	192.2	191.3	181.4	190.0
5.1	5.1	5.0	25.8	24.9	24.9	5.4	5.4	5.4	20.0	20.2	20.1	21.1	19.7	21.3
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36.1	36.1	35.9	142.5	139.4	139.8	45.6	45.5	44.8	110.7	111.4	111.4	78.1	74.4	78.5
2.9	2.8	(*)	19.8	19.1	(*)	5.4	5.4	(*)	14.8	14.3	(*)	25.6	24.3	(*)
260.4	246.5	251.7	988.1	964.4	965.6	237.5	242.9	240.7	982.2	987.5	989.0	681.1	692.5	673.3
14.3	14.4	14.5	50.4	49.4	49.8	9.3	10.1	10.0	44.7	46.7	46.7	27.7	24.4	28.5
6.6	5.9	5.9	10.9	10.9	10.9	1.5	1.6	1.6	8.8	8.7	8.6	7.6	7.2	7.0
83.2	78.3	80.5	323.0	317.7	322.0	108.4	112.4	111.9	355.1	401.8	404.0	205.6	238.5	210.4
5.0	5.4	5.3	22.3	22.2	21.9	4.9	5.0	5.0	22.8	22.7	22.7	12.6	10.1	10.7
16.6	15.6	15.5	44.3	44.6	44.4	13.1	13.1	13.1	40.0	43.1	42.5	55.5	56.8	56.8
4.1	4.4	4.6	16.1	16.0	15.9	4.0	4.2	4.1	16.3	16.1	16.1	13.9	13.4	13.8
6.1	6.5	6.4	34.0	35.2	34.8	5.6	5.7	5.7	27.5	26.5	26.5	14.4	13.0	12.8
13.6	13.0	13.3	50.0	49.7	49.5	9.7	10.0	9.9	45.1	44.9	44.1	37.2	38.0	35.4
98.1	93.1	95.4	409.2	404.1	408.9	125.1	128.9	128.1	461.9	471.8	472.7	265.7	298.2	267.5
51.9	48.8	49.5	142.8	140.1	142.3	66.1	67.6	67.4	214.8	215.1	219.5	122.9	163.2	125.6
58.5	56.3	56.9	209.2	215.0	213.5	45.6	46.6	45.9	217.9	215.4	216.5	123.6	119.1	117.8
6.4	6.1	6.1	27.9	28.2	28.2	6.1	6.4	6.4	23.2	24.5	24.6	15.8	14.1	16.7
4.4	4.1	4.1	18.9	18.5	18.5	3.6	3.6	3.6	17.7	16.6	16.4	12.0	11.6	10.9
7.2	7.1	7.3	25.7	25.7	25.7	5.1	5.3	5.3	19.1	19.4	19.3	17.9	18.8	16.9
2.3	2.4	2.4	10.1	9.8	9.8	2.2	2.3	2.2	8.2	8.3	8.2	6.5	5.8	6.2
7.4	7.4	7.2	32.1	33.2	33.0	3.9	3.9	3.9	22.2	21.8	22.0	17.6	16.7	17.4
13.4	12.7	13.3	82.9	80.4	81.4	20.9	21.2	21.1	85.8	86.8	88.4	58.8	58.3	58.7
13.4	12.7	13.3	81.8	80.7	81.0	20.9	21.2	20.9	80.5	83.2	84.8	55.4	54.6	55.0
53.9	55.2	55.5	224.6	225.8	227.9	47.7	50.1	49.5	156.7	165.3	165.2	235.0	213.6	228.6
9.5	9.5	9.5	31.5	33.0	33.1	6.5	6.8	6.7	24.1	25.2	25.7	44.9	44.9	44.6
9.5	9.6	9.6	37.7	36.7	36.5	14.1	14.4	14.3	25.4	26.2	26.1	54.9	49.9	54.8
9.9	10.3	10.2	52.0	52.0	52.3	9.4	9.5	9.5	35.7	36.9	37.3	34.4	33.9	35.8

**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		
	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P
1 SOUTH DAKOTA	238.1	234.3	233.5	2.9	2.9	2.9	11.7	10.8	10.3	25.2	26.0	25.8
2 Rapid City	32.6	33.3	33.2	(2)	(2)	(2)	2.2	1.9	2.0	3.1	3.1	3.1
3 Sioux Falls	54.2	53.2	53.3	(2)	(2)	(2)	2.6	2.5	2.3	7.8	8.0	8.0
4 TENNESSEE	1,727.2	1,719.9	1,731.3	9.8	10.8	10.8	78.2	74.8	73.2	500.1	522.9	524.0
5 Chattanooga	166.3	164.2	165.6	1.3	1.3	1.3	6.5	6.3	6.3	49.1	48.9	49.3
6 Knoxville	(*)	199.4	199.3	(*)	1.8	1.7	(*)	11.0	11.0	(*)	53.0	52.7
7 Memphis	358.4	353.9	356.9	.2	.1	.1	16.3	15.4	15.3	59.6	59.1	59.1
8 Nashville—Davidson	357.1	351.5	353.8	(1)	(1)	(1)	17.5	17.0	16.7	78.2	81.2	82.9
9 TEXAS	5,536.3	6,151.0	6,180.5	243.5	285.2	286.7	430.6	444.5	443.4	1,054.0	1,089.3	1,089.6
10 Abilene	56.1	57.6	58.7	4.4	4.6	4.6	3.0	3.3	3.3	5.8	6.2	6.4
11 Amarillo	74.2	76.2	76.4	(1)	(1)	(1)	4.2	4.6	4.7	9.1	10.1	9.8
12 Austin	242.4	246.7	248.2	(1)	(1)	(1)	13.9	15.1	14.8	30.4	31.4	31.5
13 Beaumont—Port Arthur Orange	154.0	153.6	154.2	(1)	(1)	(1)	13.1	11.8	11.9	42.7	44.2	44.4
14 Corpus Christi	125.2	127.0	128.3	6.6	6.4	6.5	12.7	13.9	14.5	16.2	16.6	16.5
15 Dallas—Fort Worth	1,474.0	1,522.8	1,535.6	25.3	28.9	29.1	85.7	92.5	90.7	319.9	324.2	324.4
16 El Paso	160.9	163.5	164.5	(1)	(1)	(1)	8.5	8.3	8.0	35.0	37.6	37.8
17 Galveston—Texas City	71.0	72.4	72.1	(1)	(1)	(1)	4.8	4.7	4.6	12.1	12.6	12.7
18 Houston	1,449.8	1,507.4	1,509.3	80.9	88.9	88.7	146.8	146.6	146.5	243.7	257.3	257.2
19 Longview—Marshall	64.9	65.1	65.6	(1)	(1)	(1)	4.8	4.3	4.4	18.9	19.5	19.6
20 Lubbock	89.6	87.8	89.3	(1)	(1)	(1)	4.3	4.2	4.2	13.1	11.6	11.6
21 Midland	43.2	46.0	46.7	10.9	12.7	12.7	3.0	2.9	2.8	3.9	4.0	4.0
22 Odessa	53.4	57.3	56.9	8.4	9.0	8.9	4.5	5.2	4.7	7.3	8.3	8.4
23 San Angelo	35.3	37.0	37.4	.8	.9	.9	2.2	2.4	2.3	6.3	6.2	6.3
24 San Antonio	400.3	404.4	407.4	2.5	3.0	3.1	29.1	29.5	28.8	51.0	54.2	53.9
25 Sherman—Denison	36.9	37.0	36.8	.1	.2	.2	1.9	1.8	1.8	13.4	13.0	12.9
26 Waco	71.8	71.6	73.4	(1)	(1)	(1)	3.8	3.5	3.4	16.4	17.4	17.2
27 Wichita Falls	52.8	54.1	54.9	3.4	3.6	3.7	2.5	2.7	2.7	9.6	10.4	10.5
28 UTAH	554.6	550.1	555.5	19.7	20.6	20.6	33.6	30.4	30.2	87.9	88.5	88.6
29 Salt Lake City—Ogden	391.6	389.4	391.9	7.9	7.7	7.7	23.2	20.4	20.3	60.6	61.0	61.2
30 VERMONT	201.3	201.3	203.1	.7	.7	.7	10.9	11.1	10.9	50.1	50.5	50.1
31 Burlington ¹³	57.5	57.7	59.1	—	—	—	—	—	—	14.7	16.0	15.7
32 Springfield ¹³	14.6	14.3	14.3	—	—	—	—	—	—	6.4	6.2	6.2
33 VIRGINIA	2,136.2	2,147.5	2,163.8	24.0	24.5	24.7	127.0	118.7	116.1	410.6	408.1	411.9
34 Bristol	28.4	29.0	29.3	(1)	(1)	(1)	1.3	1.6	1.5	9.3	9.6	9.5
35 Lynchburg	72.4	70.1	71.6	(1)	(1)	(1)	3.9	3.4	3.3	29.0	28.8	29.4
36 Newport News—Hampton	154.9	158.4	157.7	(1)	(1)	(1)	7.3	7.4	7.3	35.3	35.1	35.0
37 Norfolk—Virginia Beach—Portsmouth	284.9	293.3	293.1	(1)	(1)	(1)	16.1	17.0	16.9	29.7	29.4	29.7
38 Northern Virginia ¹⁴	432.3	443.8	446.3	.4	.4	.4	27.9	29.5	28.9	17.1	18.2	18.1
39 Petersburg—Colonial Heights—Holyoke	47.6	44.6	46.0	(1)	(1)	(1)	3.1	2.4	2.3	11.6	10.8	11.1
40 Richmond	326.6	326.3	330.9	.4	.3	.3	17.1	16.5	16.3	55.8	56.8	56.9
41 Roanoke	105.4	103.4	103.6	.1	.1	.1	6.7	5.2	5.0	20.9	21.0	20.8
42 WASHINGTON	1,615.3	1,575.1	1,590.7	3.3	3.3	3.3	90.4	90.4	89.5	312.3	302.0	305.4
43 Seattle—Everett	786.6	767.7	772.5	(1)	(1)	(1)	43.0	38.9	38.5	176.3	169.5	168.5
44 Spokane	128.1	123.8	125.4	(1)	(1)	(1)	7.6	6.1	6.0	16.9	17.2	17.3
45 Tacoma	144.1	139.8	144.7	(1)	(1)	(1)	7.6	7.1	7.2	21.9	22.6	22.9
46 WEST VIRGINIA	645.9	629.1	633.1	66.1	66.3	67.0	39.4	32.4	30.5	115.7	114.4	113.8
47 Charleston	117.1	113.4	112.9	6.8	6.7	6.7	7.8	6.0	5.6	17.6	16.8	16.8
48 Huntington—Ashland	104.1	104.8	104.6	1.1	1.1	1.1	6.3	4.5	4.3	25.7	26.1	26.1
49 Parkersburg—Martetta	58.6	57.1	57.1	.9	.9	.9	3.8	3.2	3.0	16.7	16.5	16.6
50 Wheeling	65.3	64.9	64.9	5.5	5.3	5.3	3.3	2.6	2.4	11.5	12.4	12.4
51 WISCONSIN	1,562.6	1,962.9	1,979.4	2.8	2.5	2.4	76.7	73.0	70.7	562.9	567.0	568.8
52 Appleton—Oshkosh	125.3	126.6	126.6	(1)	(1)	(1)	6.5	6.0	6.2	46.9	47.9	48.1
53 Eau Claire	48.4	47.8	49.3	(1)	(1)	(1)	2.2	2.2	2.3	8.8	8.7	8.6
54 Green Bay	79.4	79.6	80.5	(1)	(1)	(1)	3.5	2.7	3.0	22.8	23.1	22.8
55 Janesville—Beloit	48.8	50.5	51.5	(1)	(1)	(1)	2.2	1.7	1.6	17.4	19.9	20.2
56 Kenosha	45.1	41.7	42.7	(1)	(1)	(1)	2.3	1.9	1.9	18.6	16.4	16.9
57 La Crosse	45.7	45.6	46.7	(1)	(1)	(1)	1.7	1.6	1.7	11.0	11.0	11.1
58 Madison	172.9	171.2	173.9	(1)	(1)	(1)	6.9	7.0	6.8	20.7	21.0	21.0
59 Milwaukee	674.6	668.9	674.1	(1)	(1)	(1)	22.5	21.8	22.3	202.7	198.5	199.4
60 Racine	68.7	67.3	68.5	(1)	(1)	(1)	2.0	1.7	1.6	29.0	28.5	29.1
61 WYOMING	211.8	213.6	212.7	36.4	39.0	38.7	23.0	19.1	18.0	10.9	12.1	12.0
62 Casper	35.8	40.0	40.0	7.6	7.0	6.8	4.4	3.7	3.6	1.9	2.0	2.0
63 Cheyenne	29.8	28.8	29.1	(1)	(1)	(1)	2.4	2.1	2.1	1.7	1.5	1.5

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	
13.6	13.1	13.5	64.9	63.8	63.1	11.1	11.3	11.1	51.2	51.9	51.0	57.5	54.5	55.8	1
1.9	1.9	1.9	9.4	10.5	10.1	1.5	1.6	1.6	7.3	7.3	7.0	7.2	7.0	7.5	2
4.8	4.8	4.8	15.8	15.6	15.1	3.4	3.4	3.4	13.1	13.0	13.1	6.7	5.9	6.6	3
85.7	81.2	82.4	372.7	366.1	365.2	77.6	76.6	75.9	292.3	300.1	300.7	310.9	287.4	299.1	4
7.2	7.2	7.2	32.4	32.6	32.4	9.2	9.3	9.3	27.7	27.4	27.5	32.9	31.2	32.3	5
(*)	8.3	8.2	(*)	42.3	42.6	(*)	8.1	8.0	(*)	31.8	31.7	(*)	43.1	43.4	6
27.1	26.7	26.7	96.5	96.9	97.3	19.1	19.4	19.3	74.1	74.6	75.0	65.5	61.7	64.1	7
19.2	18.3	18.2	81.5	80.5	79.8	24.4	24.1	24.1	72.4	70.5	72.1	63.9	59.9	60.0	8
368.7	389.7	388.4	1,438.3	1,493.5	1,497.5	341.7	355.5	353.9	1,031.4	1,087.6	1,096.6	1,028.1	1,005.7	1,024.4	9
3.1	3.3	3.3	15.4	15.8	16.0	2.6	2.9	2.8	12.3	12.4	12.8	9.5	9.1	9.5	10
7.3	7.4	7.4	22.1	22.6	22.8	3.7	3.7	3.7	15.1	15.9	15.7	12.7	11.9	12.3	11
7.3	7.4	7.4	51.7	54.6	55.5	14.6	15.3	15.3	44.1	44.6	45.6	80.4	78.3	78.1	12
11.8	12.2	11.6	33.4	33.6	33.2	5.4	6.1	6.0	26.5	28.4	28.4	20.7	17.3	18.7	13
7.7	7.2	7.2	29.0	29.8	29.7	5.4	5.5	5.5	21.3	22.1	22.0	26.3	25.5	26.4	14
94.6	98.3	97.5	390.6	409.4	410.5	110.9	117.2	116.7	261.9	281.7	283.6	185.1	170.6	183.1	15
10.9	11.2	11.0	39.3	39.7	39.8	7.4	7.6	7.6	25.6	25.1	25.2	34.2	34.0	35.1	16
6.5	6.7	7.0	14.0	15.0	14.8	4.6	4.8	4.7	11.5	11.9	11.1	17.5	16.7	17.2	17
103.4	108.7	108.2	350.1	358.6	359.6	88.9	93.6	92.8	276.7	296.4	297.3	159.3	157.3	159.0	18
3.6	3.6	3.6	14.9	14.8	14.6	2.3	2.4	2.4	13.0	13.2	13.4	7.4	7.3	7.6	19
5.0	4.9	4.9	26.2	26.3	26.8	4.9	4.9	4.9	16.5	17.7	17.6	19.2	18.2	19.3	20
2.4	2.5	2.5	9.7	10.3	10.3	2.3	2.7	2.8	6.4	6.9	7.0	4.6	4.0	4.6	21
2.5	2.6	2.6	15.8	16.8	17.0	1.9	2.1	2.0	6.5	7.4	7.5	6.5	5.9	5.8	22
3.2	3.6	3.6	8.2	8.9	9.0	1.5	1.7	1.7	6.7	7.2	7.1	6.4	6.1	6.5	23
18.4	19.8	19.5	99.6	99.2	99.2	27.1	27.8	27.6	79.7	81.7	82.0	92.9	89.2	93.3	24
2.4	2.5	2.5	7.1	7.2	7.1	1.3	1.3	1.3	5.7	6.1	6.1	5.0	4.9	4.9	25
3.5	3.5	3.5	17.1	17.9	18.0	4.2	4.3	4.2	15.3	14.6	15.7	11.5	10.4	11.4	26
2.6	2.7	2.7	13.1	13.4	13.4	2.3	2.4	2.4	8.2	8.3	8.4	11.1	10.6	11.1	27
34.2	34.1	34.1	129.0	130.0	130.5	25.8	26.0	25.9	101.5	101.6	102.9	123.0	118.8	122.8	28
27.1	26.4	26.5	96.1	97.1	97.5	20.9	21.0	20.9	68.8	70.1	70.0	87.0	85.6	87.9	29
8.9	8.7	8.8	41.4	43.0	43.1	8.1	8.5	8.3	45.4	45.4	45.2	35.8	33.4	36.0	30
2.5	2.5	2.4	11.9	11.9	12.3	-	-	-	12.4	12.6	12.9	-	-	-	31
.7	.7	.7	2.1	2.2	2.1	-	-	-	2.6	2.6	2.5	-	-	-	32
114.7	118.7	118.5	451.7	464.1	464.6	106.0	109.4	109.1	392.2	410.2	406.5	510.0	493.8	512.4	33
1.1	1.3	1.3	6.6	6.8	6.9	1.0	1.0	1.0	3.8	3.9	3.8	5.3	4.8	5.3	34
2.8	2.7	2.7	11.7	11.2	11.3	3.7	3.7	3.6	11.0	10.5	10.8	10.3	9.8	10.5	35
5.1	5.3	5.4	29.3	30.1	29.9	5.2	5.3	5.2	25.4	23.6	22.1	43.3	41.6	42.8	36
19.0	19.7	19.4	68.8	73.6	73.4	14.6	15.0	14.7	55.9	59.8	59.5	80.8	78.8	79.5	37
29.1	29.5	28.9	98.5	102.0	102.3	27.3	28.7	28.3	113.2	116.3	116.5	118.8	119.2	122.9	38
1.6	1.4	1.4	8.0	8.3	8.4	1.3	1.3	1.3	6.4	6.5	6.5	15.6	13.9	15.0	39
19.8	20.3	20.3	72.7	74.7	74.9	26.8	26.9	26.7	59.6	62.2	61.6	74.4	68.6	73.9	40
9.8	9.6	9.7	25.7	25.9	26.0	6.2	6.3	6.3	19.6	20.2	20.2	16.4	15.1	15.5	41
91.5	88.9	88.9	390.1	380.6	384.3	92.7	93.5	92.9	316.0	320.2	321.4	319.0	296.2	305.0	42
54.0	52.7	52.5	187.3	186.6	187.9	57.1	57.5	57.5	154.4	157.4	157.6	114.5	105.1	110.0	43
8.0	8.2	8.0	35.7	35.1	34.8	8.2	8.3	8.3	29.7	29.9	30.8	22.0	19.0	20.2	44
6.8	7.3	7.2	33.8	33.6	34.2	7.3	7.6	7.5	33.8	31.4	34.2	32.9	30.2	31.5	45
43.5	43.5	43.3	130.0	131.3	131.4	22.2	22.2	22.0	99.7	97.5	98.4	129.3	121.6	126.6	46
9.9	9.7	9.6	26.7	26.6	26.5	5.1	5.1	5.0	20.5	21.0	20.9	22.6	21.6	21.8	47
9.8	10.3	10.2	23.2	25.3	25.3	3.7	3.7	3.6	15.8	15.8	15.9	18.5	18.0	18.2	48
2.5	2.5	2.5	12.7	13.0	12.9	2.1	2.1	2.1	10.2	9.6	9.5	9.6	9.3	9.7	49
4.0	3.9	3.8	15.6	15.4	15.4	2.8	2.8	2.8	13.9	13.7	13.9	8.8	8.8	8.8	50
92.9	87.6	91.8	444.5	449.3	449.8	94.1	97.5	96.4	372.1	389.3	386.9	316.6	299.6	312.5	51
4.2	4.2	4.3	26.0	25.9	25.9	5.4	5.6	5.5	20.8	21.9	21.8	15.4	15.2	14.8	52
2.6	2.6	2.6	12.9	13.1	13.4	1.6	1.7	1.6	10.0	10.5	10.4	10.2	9.1	10.3	53
6.0	5.9	6.1	19.5	20.1	20.3	2.4	2.4	2.4	15.4	15.3	15.8	9.9	10.0	10.2	54
1.7	2.0	2.0	11.1	11.2	11.1	1.3	1.4	1.4	8.3	8.3	8.4	6.6	6.1	6.9	55
1.4	1.1	1.2	8.3	8.3	8.2	1.1	1.1	1.1	7.7	7.6	7.9	5.8	5.4	5.5	56
2.3	2.2	2.2	12.4	12.2	12.5	1.1	1.1	1.1	10.5	11.2	11.2	6.6	6.2	6.9	57
6.4	6.2	6.4	36.3	36.3	37.0	12.9	13.4	13.2	31.5	32.2	32.7	58.2	55.0	56.8	58
34.7	32.4	34.4	145.6	145.5	145.3	39.4	40.4	40.1	145.6	149.6	150.9	84.1	80.7	81.6	59
2.4	2.2	2.3	13.0	12.7	12.8	2.2	2.2	2.2	11.5	11.4	11.3	8.6	8.5	9.2	60
18.0	18.5	18.6	42.0	45.0	44.1	7.2	7.3	7.2	30.8	33.8	32.4	43.5	38.8	41.7	61
3.2	3.3	3.3	10.1	10.0	9.9	1.7	2.0	1.9	5.7	5.9	6.0	5.2	6.1	6.5	62
4.4	4.3	4.1	6.4	6.3	6.1	1.5	1.5	1.4	4.9	5.1	5.2	8.5	8.0	8.7	63

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P
1 PUERTO RICO	(*)	(*)	(*)	.9	.8	(*) ³	39.5	31.8	(*)	(*)	(*)	(*)
2. Caguas	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
3. Mayaguez	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
4. Ponce	(*)	(*)	(*)	(*)	(*)	(*)	3.7	2.5	2.1	(*)	(*)	(*)
5. San Juan	(*)	(*)	(*)	(*)	(*)	(*)	26.7	22.4	21.8	(*)	(*)	(*)
6 VIRGIN ISLANDS	35.1	36.6	35.2	(2)	(2)	(2)	3.1	2.6	2.9	3.2	3.0	2.9

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

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

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-B. 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			
SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	
17.4	17.9	(*)	112.3	109.8	(*)	27.3	28.1	(*)	83.1	79.5	(*)	250.9	225.8	(*)	1
(*)	(*)	(*)	5.6	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	12.0	10.6	(*)	2
(*)	(*)	(*)	5.6	5.5	(*)	(*)	(*)	(*)	(*)	(*)	(*)	15.6	15.0	(*)	3
(*)	(*)	(*)	7.7	7.2	(*)	(*)	(*)	(*)	(*)	(*)	(*)	18.4	17.3	(*)	4
13.4	(*)	(*)	71.1	69.7	(*)	20.5	21.1	(*)	57.6	(*)	(*)	121.8	120.8	(*)	5
2.0	2.0	2.0	6.8	7.1	6.7	1.5	1.6	1.5	5.5	5.4	5.4	13.0	14.9	13.8	6

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
-	TOTAL PRIVATE	\$239.69	\$241.81	\$259.88	\$258.65	\$259.35	\$6.79	\$6.85	\$7.30	\$7.39	\$7.41
-	MINING	404.99	408.10	447.62	450.70	455.68	9.31	9.36	10.15	10.29	10.24
10	METAL MINING	423.06	419.36	478.74	489.65	-	10.55	10.59	11.85	12.12	-
101	Iron ores	430.07	401.32	518.75	549.12	-	11.53	11.21	12.47	12.86	-
102	Copper ores	424.93	445.76	485.60	488.44	-	10.98	11.20	11.99	12.12	-
11, 12	COAL MINING	444.57	445.38	507.78	517.05	-	10.95	10.97	12.09	12.34	-
12	BITUMINOUS COAL AND LIGNITE MINING	446.19	446.60	509.46	518.72	-	10.99	11.00	12.13	12.38	-
13	OIL AND GAS EXTRACTION	396.38	402.65	432.35	431.75	-	8.75	8.83	9.44	9.51	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	406.64	404.33	445.95	464.03	-	9.87	9.79	10.72	10.97	-
138	Oil and gas field services	392.65	402.23	427.20	421.78	-	8.39	8.54	9.07	9.09	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	342.88	345.20	366.24	363.79	-	7.74	7.81	8.40	8.48	-
142	Crushed and broken stone	324.72	328.41	353.90	351.60	-	7.33	7.38	8.08	8.12	-
-	CONSTRUCTION	386.84	388.10	405.45	393.06	410.70	10.18	10.24	10.87	11.01	11.07
15	GENERAL BUILDING CONTRACTORS	344.65	346.86	354.17	347.55	-	9.34	9.40	9.73	9.93	-
152	Residential building construction	323.43	324.89	319.16	315.90	-	8.91	8.95	8.94	9.21	-
153	Operative builders	303.55	307.35	303.83	299.48	-	8.16	8.24	8.37	8.46	-
154	Nonresidential building construction	368.02	372.75	393.63	383.41	-	9.84	9.94	10.61	10.77	-
16	HEAVY CONSTRUCTION CONTRACTORS	398.11	397.17	432.78	408.66	-	9.57	9.64	10.53	10.67	-
161	Highway and street construction	389.91	386.13	419.34	385.28	-	9.11	9.15	9.89	9.93	-
162	Heavy construction, except highway	403.60	403.51	437.81	419.44	-	9.82	9.89	10.81	10.98	-
17	SPECIAL TRADE CONTRACTORS	402.58	406.62	421.08	409.03	-	10.91	10.96	11.60	11.72	-
171	Plumbing, heating, air conditioning	419.14	425.17	436.73	420.08	-	11.03	11.13	11.74	11.80	-
172	Painting, paper hanging, decorating	358.69	357.98	375.95	378.67	-	10.19	10.17	10.62	10.85	-
173	Electrical work	468.25	467.11	495.94	468.60	-	12.29	12.26	13.12	13.20	-
174	Masonry, stonework, and plastering	378.08	383.06	384.07	377.48	-	10.65	10.70	11.23	11.37	-
175	Carpentering and flooring	343.77	343.42	350.55	365.75	-	9.85	9.84	10.25	10.48	-
176	Roofing and sheet metal work	333.20	339.68	360.15	346.39	-	9.52	9.65	10.29	10.34	-
-	MANUFACTURING	295.32	298.10	319.20	321.53	321.53	7.42	7.49	8.02	8.14	8.14
24, 25, 32-39	DURABLE GOODS	318.38	322.80	344.51	344.60	345.86	7.92	8.01	8.57	8.68	8.69
20-23, 26-31	NONDURABLE GOODS	262.36	263.53	285.26	288.17	285.87	6.71	6.74	7.24	7.37	7.33
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	265.67	263.82	278.07	272.90	271.78	6.76	6.73	7.13	7.16	7.19
241	Logging camps and logging contractors	354.71	338.63	363.40	354.00	-	8.89	8.75	9.20	9.39	-
242	Sawmills and planing mills	276.41	271.35	296.51	286.38	-	6.98	6.94	7.45	7.40	-
2421	Sawmills and planing mills, general	290.14	284.98	313.61	302.64	-	7.29	7.27	7.86	7.80	-
2426	Hardwood dimension and flooring	185.28	187.40	201.96	196.98	-	4.80	4.83	5.10	5.09	-
243	Millwork, plywood, and structural members	257.54	260.31	265.65	261.38	-	6.57	6.59	6.90	6.97	-
2431	Millwork	257.54	260.43	268.48	272.75	-	6.57	6.56	7.01	7.14	-
2434	Wood kitchen cabinets	220.88	222.97	231.75	226.04	-	5.89	5.93	6.18	6.21	-
2435	Hardwood veneer and plywood	201.73	205.60	221.14	213.79	-	5.12	5.14	5.42	5.44	-
2436	Softwood veneer and plywood	326.42	328.03	328.80	313.27	-	8.12	8.16	8.63	8.63	-
244	Wood containers	190.13	192.15	206.95	203.68	-	5.03	5.07	5.32	5.36	-
245	Wood buildings and mobile homes	239.51	241.81	239.28	236.31	-	6.27	6.33	6.52	6.51	-
2451	Mobile homes	238.13	239.15	242.08	233.28	-	6.25	6.31	6.49	6.48	-
249	Miscellaneous wood products	221.35	222.86	237.19	238.16	-	5.52	5.53	6.02	6.06	-
25	FURNITURE AND FIXTURES	214.10	215.60	230.83	225.60	229.45	5.59	5.60	5.98	6.00	6.07
251	Household furniture	197.17	199.79	210.35	205.53	-	5.23	5.23	5.55	5.57	-
2511	Wood household furniture	183.64	187.50	196.86	188.64	-	4.82	4.82	5.14	5.14	-
2512	Upholstered household furniture	204.23	206.83	219.11	217.34	-	5.58	5.59	5.89	5.89	-
2514	Metal household furniture	211.10	212.98	226.14	222.53	-	5.57	5.59	5.92	5.95	-
2515	Mattresses and bedspreads	221.34	218.28	232.23	231.58	-	5.84	5.79	6.16	6.31	-
252	Office furniture	238.40	237.19	262.51	255.84	-	5.99	6.02	6.53	6.51	-
253	Public building and related furniture	233.23	232.46	273.65	261.49	-	5.86	5.90	6.61	6.62	-
254	Partitions and fixtures	266.17	266.47	278.52	277.97	-	6.79	6.85	7.16	7.22	-
259	Miscellaneous furniture and fixtures	238.68	245.16	266.80	267.24	-	6.12	6.27	6.67	6.80	-

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				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
-	TOTAL PRIVATE	35.3	35.3	35.6	35.0	35.0	-	-	-	-	-
-	MINING	43.5	43.6	44.1	43.8	44.5	-	-	-	-	-
10	METAL MINING	40.1	39.6	40.4	40.4	-	-	-	-	-	
101	Iron ores	37.3	35.8	41.6	42.7	-	-	-	-	-	
102	Copper ores	38.7	39.8	40.5	40.3	-	-	-	-	-	
11, 12	COAL MINING	40.6	40.6	42.0	41.9	-	-	-	-	-	
12	BITUMINOUS COAL AND LIGNITE MINING	40.6	40.6	42.0	41.9	-	-	-	-	-	
13	OIL AND GAS EXTRACTION	45.3	45.6	45.8	45.4	-	-	-	-	-	
131, 2	Crude petroleum, natural gas, and natural gas liquids	41.2	41.3	41.6	42.3	-	-	-	-	-	
138	Oil and gas field services	46.8	47.1	47.1	46.4	-	-	-	-	-	
14	NONMETALLIC MINERALS, EXCEPT FUELS	44.3	44.2	43.6	42.9	-	-	-	-	-	
142	Crushed and broken stone	44.3	44.5	43.8	43.3	-	-	-	-	-	
-	CONSTRUCTION	38.0	37.9	37.3	35.7	37.1	-	-	-	-	
15	GENERAL BUILDING CONTRACTORS	36.9	36.9	36.4	35.0	-	-	-	-	-	
152	Residential building construction	36.3	36.3	35.7	34.3	-	-	-	-	-	
153	Operative builders	37.2	37.3	36.3	35.4	-	-	-	-	-	
154	Nonresidential building construction	37.4	37.5	37.1	35.6	-	-	-	-	-	
16	HEAVY CONSTRUCTION CONTRACTORS	41.6	41.2	41.1	38.3	-	-	-	-	-	
161	Highway and street construction	42.8	42.2	42.4	38.8	-	-	-	-	-	
162	Heavy construction, except highway	41.1	40.8	40.5	38.2	-	-	-	-	-	
17	SPECIAL TRADE CONTRACTORS	36.9	37.1	36.3	34.9	-	-	-	-	-	
171	Plumbing, heating, air conditioning	38.0	38.2	37.2	35.6	-	-	-	-	-	
172	Painting, paper hanging, decorating	35.2	35.2	35.4	34.9	-	-	-	-	-	
173	Electrical work	38.1	38.1	37.8	35.5	-	-	-	-	-	
174	Masonry, stonework, and plastering	35.5	35.8	34.2	33.2	-	-	-	-	-	
175	Carpentering and flooring	34.9	34.9	34.2	34.9	-	-	-	-	-	
176	Roofing and sheet metal work	35.0	35.2	35.0	33.5	-	-	-	-	-	
-	MANUFACTURING	39.8	39.8	39.8	39.5	39.5	3.0	2.9	3.0	2.9	
24, 25, 32-39	DURABLE GOODS	40.2	40.3	40.2	39.7	39.8	2.9	2.9	2.9	2.7	
20-23, 26-31	NONDURABLE GOODS	39.1	39.1	39.4	39.1	39.0	3.1	2.9	3.0	2.9	
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	39.3	39.2	39.0	38.1	37.8	3.1	3.1	2.8	2.3	
241	Logging camps and logging contractors	39.9	38.7	39.5	37.7	-	4.5	4.2	4.4	3.2	
242	Sawmills and planing mills	39.6	39.1	39.8	38.7	-	3.7	3.5	3.3	2.8	
2421	Sawmills and planing mills, general	39.8	39.2	39.9	38.8	-	3.9	3.7	3.6	3.0	
2426	Hardwood dimension and flooring	38.6	38.8	39.6	38.7	-	2.4	2.6	2.3	2.2	
243	Millwork, plywood, and structural members	39.2	39.5	38.5	37.5	-	2.5	2.6	2.3	1.7	
2431	Millwork	39.2	39.7	38.3	38.2	-	1.8	2.0	1.8	1.1	
2434	Wood kitchen cabinets	37.5	37.6	37.5	36.4	-	1.3	1.7	1.6	1.2	
2435	Hardwood veneer and plywood	39.4	40.0	40.8	39.3	-	3.6	3.5	3.3	2.5	
2436	Softwood veneer and plywood	40.2	40.2	38.1	36.3	-	3.7	3.7	2.9	2.4	
244	Wood containers	37.8	37.9	38.9	38.0	-	2.1	1.9	2.2	2.1	
245	Wood buildings and mobile homes	38.2	38.2	36.7	36.3	-	2.2	2.2	1.6	1.0	
2451	Mobile homes	38.1	37.9	37.3	36.0	-	2.0	2.0	1.2	.8	
249	Miscellaneous wood products	40.1	40.3	39.4	39.3	-	2.9	3.0	2.6	2.9	
25	FURNITURE AND FIXTURES	38.3	38.5	38.6	37.6	37.8	1.8	1.9	2.0	1.8	
251	Household furniture	37.7	38.2	37.9	36.9	-	1.6	1.8	1.6	1.4	
2511	Wood household furniture	38.1	38.9	38.3	36.7	-	1.6	2.0	1.8	1.6	
2512	Upholstered household furniture	36.6	37.0	37.2	36.9	-	1.0	1.1	1.1	.9	
2514	Metal household furniture	37.9	38.1	38.2	37.4	-	2.7	2.6	1.9	1.8	
2515	Mattresses and bedsprings	37.9	37.7	37.7	36.7	-	2.5	1.7	2.1	1.9	
252	Office furniture	39.8	39.4	40.2	39.3	-	2.1	1.8	2.9	2.6	
253	Public building and related furniture	39.8	39.4	41.4	39.5	-	2.3	2.2	2.9	2.2	
254	Partitions and fixtures	39.2	38.9	38.9	38.5	-	2.7	2.4	2.8	2.5	
259	Miscellaneous furniture and fixtures	39.0	39.1	40.0	39.3	-	1.1	1.2	2.3	2.2	

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				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
32	STONE, CLAY, AND GLASS PRODUCTS	\$316.06	\$319.66	\$344.81	\$346.32	\$345.10	\$7.69	\$7.74	\$8.41	\$8.53	\$8.50
321	Flat glass	424.87	438.48	448.33	480.25	-	9.95	10.08	10.70	11.30	-
322	Glass and glassware, pressed or blown	324.80	329.64	361.97	366.30	-	8.12	8.20	8.85	9.00	-
3221	Glass containers	355.06	352.97	384.81	386.72	-	8.66	8.63	9.34	9.62	-
3229	Pressed and blown glass, nec	281.78	297.50	329.67	339.89	-	7.30	7.57	8.14	8.19	-
323	Products of purchased glass	259.20	272.57	289.48	285.35	-	6.48	6.73	7.48	7.47	-
324	Cement, hydraulic	452.94	457.26	502.25	526.96	-	10.81	10.81	11.93	12.17	-
325	Structural clay products	251.25	250.22	278.36	280.60	-	6.25	6.24	6.89	6.98	-
326	Pottery and related products	245.22	255.42	266.50	267.80	-	6.32	6.45	6.94	6.92	-
327	Concrete, gypsum, and plaster products	333.25	332.13	354.06	348.55	-	7.75	7.76	8.39	8.46	-
3271	Concrete block and brick	306.05	314.30	322.61	316.40	-	6.94	7.00	7.52	7.48	-
3272	Concrete products, nec	291.45	292.56	314.49	311.82	-	6.89	6.90	7.47	7.55	-
3273	Ready-mixed concrete	365.51	362.09	384.80	374.94	-	8.54	8.56	9.25	9.35	-
329	Misc. nonmetallic mineral products	303.81	308.10	339.05	339.76	-	7.52	7.57	8.31	8.41	-
3291	Abrasive products	281.39	292.07	320.00	323.20	-	7.29	7.32	7.98	8.08	-
3292	Asbestos products	310.43	308.45	351.37	327.66	-	7.59	7.56	8.57	8.38	-
33	PRIMARY METAL INDUSTRIES	397.40	402.99	442.90	456.75	437.98	9.96	10.10	10.99	11.25	11.06
331	Blast furnace and basic steel products	456.30	458.64	517.60	544.54	-	11.67	11.76	12.94	13.09	-
3312	Blast furnaces and steel mills	472.25	474.14	535.16	569.32	-	12.14	12.22	13.48	13.62	-
3317	Steel pipe and tubes	378.65	373.58	424.35	416.07	-	9.49	9.41	10.25	10.35	-
332	Iron and steel foundries	328.32	337.85	355.27	347.97	-	8.27	8.51	9.04	9.23	-
3321	Gray iron foundries	329.51	342.74	355.80	351.38	-	8.30	8.59	9.17	9.37	-
3322	Malleable iron foundries	344.20	359.28	376.94	371.63	-	9.13	9.43	9.69	9.91	-
3325	Steel foundries, nec	324.37	328.28	352.29	337.04	-	8.15	8.29	8.72	8.80	-
333	Primary nonferrous metals	446.76	462.42	501.74	549.08	-	10.95	11.01	12.09	12.95	-
3334	Primary aluminum	491.63	505.61	536.26	600.23	-	11.65	11.65	12.86	14.09	-
335	Nonferrous rolling and drawing	374.67	383.05	406.16	411.23	-	9.05	9.23	9.74	10.03	-
3351	Copper rolling and drawing	313.34	325.48	367.65	351.44	-	7.68	7.90	8.61	8.53	-
3353	Aluminum sheet, plate, and foil	483.51	480.66	522.50	540.05	-	11.35	11.39	12.56	13.14	-
3357	Nonferrous wire drawing and insulating	346.08	361.42	368.87	381.14	-	8.40	8.73	8.91	9.14	-
336	Nonferrous foundries	296.86	303.60	318.00	316.34	-	7.44	7.59	7.97	8.07	-
3361	Aluminum foundries	305.92	316.33	323.57	323.70	-	7.61	7.83	8.13	8.30	-
34	FABRICATED METAL PRODUCTS	309.02	311.45	333.28	329.04	334.80	7.63	7.69	8.27	8.33	8.37
341	Metal cans and shipping containers	458.06	441.96	491.51	480.05	-	10.34	10.16	11.07	11.19	-
3411	Metal cans	477.12	457.98	512.76	499.82	-	10.65	10.48	11.42	11.57	-
342	Cutlery, hand tools, and hardware	280.35	285.32	310.44	296.43	-	7.17	7.26	7.80	7.76	-
3423, 5	Hand and edge tools, and hand saws and blades	274.63	270.51	298.40	295.50	-	7.06	6.99	7.46	7.50	-
3428	Hardware, nec	291.33	302.20	321.95	299.09	-	7.47	7.67	8.13	8.04	-
343	Plumbing and heating, except electric	266.23	269.21	284.06	285.25	-	6.74	6.85	7.34	7.39	-
3432	Plumbing fittings and brass goods	256.36	260.43	274.71	267.88	-	6.49	6.61	6.99	6.94	-
3433	Heating equipment, except electric	257.67	260.29	284.79	289.30	-	6.59	6.64	7.34	7.38	-
344	Fabricated structural metal products	302.40	301.38	326.43	325.19	-	7.43	7.46	8.08	8.15	-
3441	Fabricated structural metal	324.66	320.85	352.34	349.29	-	7.73	7.75	8.49	8.54	-
3442	Metal doors, sash, and trim	237.60	240.20	249.99	255.45	-	5.94	5.99	6.41	6.55	-
3443	Fabricated plate work (boiler shops)	337.83	339.90	362.50	362.07	-	8.18	8.25	8.82	8.94	-
3444	Sheet metal work	298.90	294.03	325.94	322.26	-	7.51	7.52	8.21	8.20	-
3446	Architectural metal work	285.53	281.20	302.71	296.68	-	7.05	7.03	7.53	7.53	-
345	Screw machine products, bolts, etc.	285.11	289.17	315.90	310.08	-	7.11	7.14	7.80	7.85	-
3451	Screw machine products	258.33	259.78	288.48	284.20	-	6.59	6.56	7.23	7.25	-
3452	Bolts, nuts, rivets, and washers	311.25	317.60	343.17	337.16	-	7.61	7.69	8.37	8.45	-
346	Metal forgings and stampings	352.63	369.49	383.94	375.14	-	8.75	8.99	9.48	9.57	-
3462	Iron and steel forgings	367.54	376.32	406.82	386.06	-	9.40	9.60	10.12	10.08	-
3465	Automotive stampings	435.74	464.45	475.59	464.36	-	10.68	10.98	11.46	11.58	-
3469	Metal stampings, nec	272.30	278.94	292.93	289.38	-	6.74	6.82	7.36	7.42	-
347	Metal services, nec	249.69	250.08	261.35	262.94	-	6.09	6.07	6.55	6.64	-
3471	Plating and polishing	237.41	239.19	256.36	256.08	-	5.98	5.95	6.49	6.60	-
3479	Metal coating and allied services	277.20	273.66	272.14	276.45	-	6.30	6.32	6.67	6.71	-
348	Ordnance and accessories, nec	315.29	316.93	326.76	334.72	-	7.69	7.73	8.21	8.41	-
3483	Ammunition, exc. for small arms, nec	279.10	276.71	290.97	302.23	-	6.96	6.97	7.48	7.71	-
349	Misc. fabricated metal products	287.36	289.67	308.10	307.72	-	7.22	7.26	7.80	7.85	-
3494	Valves and pipe fittings	306.06	311.18	330.70	333.52	-	7.69	7.76	8.33	8.38	-
3496	Misc. fabricated wire products	255.27	256.48	264.88	262.09	-	6.35	6.38	6.74	6.79	-
35	MACHINERY, EXCEPT ELECTRICAL	336.61	337.81	360.60	361.89	366.02	8.21	8.30	8.86	8.98	9.06
351	Engines and turbines	393.00	397.41	442.73	453.60	-	10.00	10.19	11.18	11.20	-
3511	Turbines and turbine generator sets	383.76	390.86	412.48	415.49	-	9.36	9.51	10.39	10.31	-
3519	Internal combustion engines, nec	395.90	399.19	451.88	465.35	-	10.23	10.45	11.44	11.49	-
352	Farm and garden machinery	380.14	371.05	384.16	386.68	-	9.34	9.37	9.58	9.74	-
3523	Farm machinery and equipment	395.93	387.60	398.16	402.59	-	9.61	9.69	9.88	10.09	-
353	Construction and related machinery	359.38	364.67	398.26	396.09	-	8.83	8.96	9.69	9.78	-

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				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
		32	STONE, CLAY, AND GLASS PRODUCTS	41.1	41.3	41.0	40.6	40.6	4.1	4.1	4.0
321	Flat glass	42.7	43.5	41.9	42.5	-	4.6	4.5	4.0	4.1	-
322	Glass and glassware, pressed or blown	40.0	40.2	40.9	40.7	-	3.9	3.9	4.3	5.0	-
3221	Glass containers	41.0	40.9	41.2	40.2	-	4.5	4.4	4.8	5.6	-
3229	Pressed and blown glass, nec	38.6	39.3	40.5	41.5	-	3.0	3.2	3.6	4.1	-
323	Products of purchased glass	40.0	40.5	38.7	38.2	-	3.0	3.5	3.0	2.5	-
324	Cement, hydraulic	41.9	42.3	42.1	43.3	-	3.3	3.3	3.3	3.5	-
325	Structural clay products	40.2	40.1	40.4	40.2	-	3.1	3.0	3.3	3.3	-
326	Pottery and related products	38.8	39.6	38.4	38.7	-	2.6	2.7	1.7	2.1	-
327	Concrete, gypsum, and plaster products	43.0	42.8	42.2	41.2	-	5.8	5.7	5.3	4.7	-
3271	Concrete block and brick	44.1	44.9	42.9	42.3	-	5.5	5.9	4.7	4.2	-
3272	Concrete products, nec	42.3	42.4	42.1	41.3	-	5.0	4.9	4.7	4.2	-
3273	Ready-mixed concrete	42.8	42.3	41.6	40.1	-	6.1	6.0	5.6	4.6	-
329	Misc. nonmetallic mineral products	40.4	40.7	40.8	40.4	-	3.0	3.1	3.6	3.2	-
3291	Abrasive products	38.6	39.9	40.1	40.0	-	1.8	2.5	2.8	2.7	-
3292	Asbestos products	40.9	40.8	41.0	39.1	-	2.5	2.9	3.1	2.5	-
33	PRIMARY METAL INDUSTRIES	39.9	39.9	40.3	40.6	39.6	2.6	2.7	3.1	3.3	-
331	Blast furnace and basic steel products	39.1	39.0	40.0	41.6	-	2.0	2.1	2.9	3.2	-
3312	Blast furnaces and steel mills	38.9	38.8	39.7	41.8	-	1.8	1.9	2.8	3.3	-
3317	Steel pipe and tubes	39.9	39.7	41.4	40.2	-	3.2	2.9	3.6	2.7	-
332	Iron and steel foundries	39.7	39.7	39.3	37.7	-	2.6	2.7	2.9	2.6	-
3321	Gray iron foundries	39.7	39.9	38.8	37.5	-	2.4	2.6	2.9	2.7	-
3322	Malleable iron foundries	37.7	38.1	38.9	37.5	-	1.7	2.0	2.5	2.9	-
3325	Steel foundries, nec	39.8	39.6	40.4	38.3	-	3.0	3.1	3.1	2.2	-
333	Primary nonferrous metals	40.8	42.0	41.5	42.4	-	3.4	3.5	3.2	4.7	-
3334	Primary aluminum	42.2	43.4	41.7	42.6	-	3.8	3.8	3.7	6.1	-
335	Nonferrous rolling and drawing	41.4	41.5	41.7	41.0	-	3.9	4.0	4.5	4.4	-
3351	Copper rolling and drawing	40.8	41.2	42.7	41.2	-	3.6	3.6	4.7	4.6	-
3353	Aluminum sheet, plate and foil	42.6	42.2	41.6	41.1	-	5.8	5.9	5.1	5.8	-
3357	Nonferrous wire drawing and insulating	41.2	41.4	41.4	41.7	-	3.6	4.0	4.7	4.4	-
336	Nonferrous foundries	39.9	40.0	39.9	39.2	-	2.3	2.3	2.4	2.1	-
3361	Aluminum foundries	40.2	40.4	39.8	39.0	-	2.1	2.4	2.5	2.3	-
34	FABRICATED METAL PRODUCTS	40.5	40.5	40.3	39.5	40.0	2.9	2.8	2.9	2.6	-
341	Metal cans and shipping containers	44.3	43.5	44.4	42.9	-	5.4	4.2	5.3	4.8	-
3411	Metal cans	44.8	43.7	44.9	43.2	-	5.8	4.1	5.3	4.9	-
342	Cutlery, hand tools, and hardware	39.1	39.3	39.8	38.2	-	1.8	2.2	2.4	1.7	-
3423, 5	Hand and edge tools, and hand saws and blades	38.9	38.7	40.0	39.4	-	1.5	1.6	2.4	2.0	-
3429	Hardware, nec	39.0	39.4	39.6	37.2	-	1.9	2.5	2.4	1.5	-
343	Plumbing and heating, except electric	39.5	39.3	38.7	38.6	-	2.1	2.1	1.7	1.8	-
3432	Plumbing fittings and brass goods	39.5	39.4	39.3	38.6	-	1.5	1.5	2.0	1.7	-
3433	Heating equipment, except electric	39.1	39.2	38.8	39.2	-	2.5	2.4	1.6	1.8	-
344	Fabricated structural metal products	40.7	40.4	40.4	39.9	-	3.0	2.8	2.9	2.7	-
3441	Fabricated structural metal	42.0	41.4	41.5	40.9	-	3.6	3.1	3.5	3.0	-
3442	Metal doors, sash, and trim	40.0	40.1	39.0	39.0	-	2.6	2.7	2.2	2.3	-
3443	Fabricated plate work (boiler shops)	41.3	41.2	41.1	40.5	-	3.0	3.1	3.3	3.4	-
3444	Sheet metal work	39.8	39.1	39.7	39.3	-	2.9	2.5	2.5	2.4	-
3446	Architectural metal work	40.5	40.0	40.2	39.4	-	3.1	2.8	2.4	1.6	-
345	Screw machine products, bolts, etc.	40.1	40.5	40.5	39.5	-	3.0	3.0	3.0	2.5	-
3451	Screw machine products	39.2	39.6	39.9	39.2	-	2.9	2.9	2.7	2.2	-
3452	Bolts, nuts, rivets, and washers	40.9	41.3	41.0	39.9	-	3.0	3.1	3.3	2.8	-
346	Metal forgings and stampings	40.3	41.1	40.5	39.2	-	3.3	3.5	3.2	2.7	-
3462	Iron and steel forgings	39.1	39.2	40.2	38.3	-	3.1	3.0	3.1	2.2	-
3465	Automotive stampings	40.8	42.3	41.5	40.1	-	3.9	4.3	3.9	3.2	-
3469	Metal stampings, nec	40.4	40.9	39.8	39.0	-	2.7	2.9	2.5	2.3	-
347	Metal services, nec	41.0	41.2	39.9	39.6	-	2.6	2.3	2.7	2.5	-
3471	Plating and polishing	39.7	40.2	39.5	38.8	-	3.3	3.1	2.8	2.5	-
3479	Metal coating and allied services	44.0	43.3	40.8	41.2	-	1.0	.5	2.5	2.6	-
348	Ordinance and accessories, nec	41.0	41.0	39.8	39.8	-	2.8	3.1	2.5	2.9	-
3483	Ammunition, exc. for small arms, nec	40.1	39.7	38.9	39.2	-	2.1	2.3	2.0	2.4	-
349	Misc. fabricated metal products	39.8	39.9	39.5	39.2	-	2.4	2.4	2.7	2.6	-
3494	Valves and pipe fittings	39.8	40.1	39.7	39.8	-	2.7	2.8	2.8	2.9	-
3496	Misc. fabricated wire products	40.2	40.2	39.3	38.6	-	2.5	2.6	2.6	2.3	-
35	MACHINERY, EXCEPT ELECTRICAL	41.0	40.7	40.7	40.3	40.4	3.3	3.2	3.3	3.0	-
351	Engines and turbines	39.3	39.0	39.6	40.5	-	2.0	2.2	3.1	2.6	-
3511	Turbines and turbine generator sets	41.0	41.1	39.7	40.3	-	3.9	4.1	3.6	3.4	-
3519	Internal combustion engines, nec	38.7	38.2	39.5	40.5	-	1.4	1.5	2.9	2.4	-
352	Farm and garden machinery	40.7	39.6	40.1	39.7	-	4.0	3.1	3.1	2.9	-
3523	Farm machinery and equipment	41.2	40.0	40.3	39.9	-	4.4	3.4	3.5	3.3	-
353	Construction and related machinery	40.7	40.7	41.1	40.5	-	2.9	2.8	3.5	3.2	-

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				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery	\$376.94	\$382.62	\$435.60	\$432.30	-	\$9.74	\$9.99	\$10.89	\$11.00	-
3532	Mining machinery	349.00	355.88	375.77	386.89	-	8.66	8.68	9.66	9.77	-
3533	Oil field machinery	370.05	382.10	409.87	410.62	-	8.26	8.51	9.19	9.29	-
3535	Conveyers and conveying equipment	320.39	321.59	350.86	343.10	-	7.95	7.98	8.86	8.82	-
3537	Industrial trucks and tractors	303.62	300.96	324.78	311.70	-	7.99	7.92	8.48	8.47	-
354	Metalworking machinery	348.19	350.70	370.94	369.96	-	8.31	8.39	8.96	9.09	-
3541	Machine tools, metal cutting types	364.63	370.66	380.97	380.18	-	8.46	8.60	9.18	9.25	-
3542	Machine tools, metal forming types	346.46	345.26	357.17	372.01	-	8.64	8.61	9.35	9.49	-
3544	Special dies, tools, jigs, and fixtures	375.66	381.74	397.62	400.61	-	8.86	8.94	9.40	9.63	-
3545	Machine tool accessories	308.21	310.75	336.61	328.20	-	7.61	7.73	8.23	8.33	-
3546	Power driven hand tools	263.91	260.89	289.35	290.80	-	6.39	6.41	7.27	7.27	-
355	Special industry machinery	315.70	317.34	338.24	338.15	-	7.70	7.74	8.27	8.37	-
3551	Food products machinery	330.00	336.13	353.74	347.53	-	8.25	8.32	8.67	8.71	-
3552	Textile machinery	250.92	254.16	266.12	266.53	-	6.15	6.26	6.62	6.68	-
3555	Printing trades machinery	330.96	332.63	358.70	357.66	-	7.88	7.79	8.46	8.66	-
356	General industrial machinery	333.74	332.91	353.36	354.40	-	8.16	8.22	8.79	8.86	-
3561	Pumps and pumping equipment	328.43	325.98	350.34	353.98	-	8.17	8.17	8.96	9.03	-
3562	Ball and roller bearings	334.53	339.07	358.80	353.57	-	8.10	8.27	8.73	8.73	-
3563	Air and gas compressors	378.01	367.16	395.93	412.16	-	8.71	8.68	9.36	9.63	-
3564	Blowers and fans	314.42	307.57	319.19	315.06	-	7.54	7.52	8.04	8.12	-
3566	Speed changers, drives, and gears	372.94	369.90	403.09	401.88	-	9.03	9.00	9.76	9.85	-
3568	Power transmission equipment, nec	312.04	315.22	333.33	333.73	-	7.86	7.96	8.21	8.23	-
357	Office and computing machines	290.37	290.46	310.01	315.24	-	6.98	7.05	7.47	7.67	-
3573	Electronic computing equipment	289.53	287.60	313.74	318.37	-	6.91	6.93	7.47	7.69	-
358	Refrigeration and service machinery	298.69	301.60	321.53	321.87	-	7.43	7.54	8.14	8.19	-
3585	Refrigeration and heating equipment	307.80	310.75	333.17	331.41	-	7.60	7.73	8.35	8.39	-
359	Misc. machinery, except electrical	327.61	330.88	346.32	345.07	-	8.01	8.09	8.53	8.67	-
3592	Carburetors, pistons, rings, valves	399.23	411.18	401.60	408.35	-	9.62	9.79	9.99	10.26	-
3599	Machinery, except electrical, nec	316.20	317.87	337.40	334.32	-	7.75	7.81	8.29	8.40	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	282.66	285.76	310.40	308.48	\$308.87	7.12	7.18	7.76	7.79	\$7.78
361	Electric distributing equipment	282.03	279.82	302.97	296.79	-	7.14	7.12	7.67	7.61	-
3612	Transformers	278.40	277.70	306.27	300.64	-	6.96	6.96	7.47	7.46	-
3613	Switchgear and switchboard apparatus	284.26	281.25	301.06	294.12	-	7.27	7.23	7.84	7.74	-
362	Electrical industrial apparatus	291.80	293.33	317.20	314.42	-	7.35	7.37	7.93	7.90	-
3621	Motors and generators	295.87	298.22	312.83	305.75	-	7.36	7.40	7.86	7.78	-
3622	Industrial controls	283.53	285.82	310.08	312.84	-	7.27	7.31	7.87	7.92	-
363	Household appliances	278.71	282.43	307.30	297.60	-	7.11	7.15	7.76	7.75	-
3632	Household refrigerators and freezers	334.10	333.32	387.82	351.12	-	8.07	8.11	9.19	9.24	-
3633	Household laundry equipment	336.65	346.98	351.92	338.37	-	8.61	8.74	9.31	9.22	-
3634	Electric housewares and fans	229.13	227.17	237.19	235.07	-	5.86	5.81	6.02	6.09	-
364	Electric lighting and wiring equipment	257.28	264.01	281.24	281.78	-	6.58	6.65	7.12	7.17	-
3641	Electric lamps	290.03	302.30	334.97	328.05	-	7.38	7.52	8.15	8.12	-
3643	Current-carrying wiring devices	239.51	245.39	269.72	269.56	-	6.11	6.15	6.76	6.79	-
3644	Noncurrent-carrying wiring devices	272.34	281.64	283.97	293.72	-	6.86	6.92	7.30	7.38	-
3645	Residential lighting fixtures	191.29	199.05	214.68	215.59	-	5.17	5.17	5.62	5.78	-
365	Radio and TV receiving equipment	259.38	259.25	287.03	288.68	-	6.60	6.58	7.23	7.29	-
3651	Radio and TV receiving sets	267.63	265.88	291.51	290.90	-	6.81	6.80	7.38	7.44	-
366	Communication equipment	329.27	332.10	367.52	368.96	-	8.11	8.20	9.03	9.11	-
3661	Telephone and telegraph apparatus	342.15	349.06	397.16	401.02	-	8.49	8.64	9.57	9.71	-
3662	Radio and TV communication equipment	319.87	320.33	348.07	348.80	-	7.84	7.89	8.68	8.72	-
367	Electronic components and accessories	243.66	246.09	266.78	266.63	-	6.20	6.23	6.72	6.75	-
3671-3	Electronic tubes	320.02	321.77	330.96	337.28	-	7.73	7.81	8.40	8.39	-
3674	Semiconductors and related devices	276.19	280.00	310.31	310.00	-	7.01	7.00	7.70	7.75	-
3679	Electronic components, nec	228.31	229.89	250.17	248.46	-	5.78	5.82	6.27	6.29	-
369	Misc. electrical equipment and supplies	331.68	341.85	356.47	350.06	-	8.21	8.42	8.78	8.84	-
3691	Storage batteries	332.48	344.44	361.92	344.18	-	8.07	8.34	8.70	8.78	-
3694	Engine electrical equipment	363.65	377.48	388.27	379.46	-	9.16	9.39	9.78	9.78	-
37	TRANSPORTATION EQUIPMENT	388.28	400.73	417.15	414.32	424.11	9.54	9.75	10.30	10.41	10.55
371	Motor vehicles and equipment	405.22	428.48	442.13	430.49	-	10.08	10.40	10.81	11.01	-
3711	Motor vehicles and car bodies	442.66	476.74	501.43	476.63	-	11.15	11.46	12.23	12.51	-
3713	Truck and bus bodies	322.36	321.53	351.01	352.14	-	8.12	8.14	8.71	8.87	-
3714	Motor vehicle parts and accessories	392.50	409.70	424.36	415.76	-	9.62	9.92	10.30	10.42	-
3715	Truck trailers	258.31	260.94	283.86	284.64	-	6.87	6.94	7.47	7.55	-
372	Aircraft and parts	394.90	400.32	422.58	428.63	-	9.47	9.60	10.46	10.48	-
3721	Aircraft	409.76	420.09	434.22	447.43	-	9.85	10.05	10.91	10.86	-
3724	Aircraft engines and engine parts	399.78	398.55	427.43	424.66	-	9.61	9.65	10.58	10.59	-
3728	Aircraft equipment, nec	359.94	363.74	393.34	393.05	-	8.57	8.64	9.41	9.54	-
373	Ship and boat building and repairing	344.83	349.76	363.91	363.51	-	8.39	8.51	9.03	9.02	-
3731	Shipbuilding and repairing	359.68	365.44	383.25	-	-	8.73	8.87	9.51	-	-
3732	Boat building and repairing	284.82	285.63	301.90	300.56	-	7.05	7.07	7.51	7.59	-
374	Railroad equipment *	405.97	403.65	-	-	-	10.33	10.35	-	-	-

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				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	38.7	38.3	40.0	39.3	-	1.1	1.1	2.2	1.8	-
3532	Mining machinery	40.3	41.0	38.9	39.6	-	2.3	2.3	1.8	1.7	-
3533	Oil field machinery	44.8	44.9	44.6	44.2	-	5.7	5.4	6.1	5.9	-
3535	Conveyers and conveying equipment	40.3	40.3	39.6	38.9	-	3.0	2.9	3.9	3.1	-
3537	Industrial trucks and tractors	38.0	38.0	38.3	36.8	-	2.1	1.8	2.7	2.2	-
354	Metalworking machinery	41.9	41.8	41.4	40.7	-	4.3	4.3	4.0	3.7	-
3541	Machine tools, metal cutting types	43.1	43.1	41.5	41.1	-	5.3	5.2	4.2	4.0	-
3542	Machine tools, metal forming types	40.1	40.1	38.2	39.2	-	3.9	3.7	2.5	2.7	-
3544	Special dies, tools, jigs, and fixtures	42.4	42.7	42.3	41.6	-	5.0	5.3	4.9	4.5	-
3545	Machine tool accessories	40.5	40.2	40.9	39.4	-	3.3	3.1	3.1	2.9	-
3546	Power driven hand tools	41.3	40.7	39.8	40.0	-	2.5	2.0	2.7	2.3	-
355	Special industry machinery	41.0	41.0	40.9	40.4	-	3.2	2.9	2.9	2.8	-
3551	Food products machinery	40.0	40.4	40.8	39.9	-	2.5	2.6	2.2	2.0	-
3552	Textile machinery	40.8	40.6	40.2	39.9	-	2.3	2.0	2.1	1.9	-
3555	Printing trades machinery	42.0	42.7	42.4	41.3	-	3.9	3.7	3.8	3.6	-
356	General industrial machinery	40.9	40.5	40.2	40.0	-	3.4	3.1	3.0	2.9	-
3561	Pumps and pumping equipment	40.2	39.9	39.1	39.2	-	2.4	2.5	2.7	2.6	-
3562	Ball and roller bearings	41.3	41.0	41.1	40.5	-	3.7	3.5	3.3	2.7	-
3563	Air and gas compressors	43.4	42.3	42.3	42.8	-	4.8	4.5	3.6	4.4	-
3564	Blowers and fans	41.7	40.9	39.7	38.8	-	4.4	3.9	3.2	2.8	-
3566	Speed changers, drives, and gears	41.3	41.1	41.3	40.8	-	3.0	2.7	4.3	3.6	-
3568	Power transmission equipment, nec	39.7	39.6	40.6	40.6	-	2.9	2.5	2.9	3.0	-
357	Office and computing machines	41.6	41.2	41.5	41.1	-	2.9	2.6	2.8	3.0	-
3573	Electronic computing equipment	41.9	41.5	42.0	41.4	-	2.8	2.7	3.2	3.4	-
358	Refrigeration and service machinery	40.2	40.0	39.5	39.3	-	2.6	2.5	2.3	2.0	-
3585	Refrigeration and heating equipment	40.5	40.2	39.9	39.5	-	2.6	2.5	2.3	2.0	-
359	Misc. machinery, except electrical	40.9	40.9	40.6	39.8	-	3.7	3.8	3.7	3.1	-
3592	Carburetors, pistons, rings, valves	41.5	42.0	40.2	39.8	-	3.4	3.3	2.7	2.2	-
3599	Machinery, except electrical, nec	40.8	40.7	40.7	39.8	-	3.8	3.8	3.9	3.3	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	39.7	39.8	40.0	39.6	39.7	2.3	2.2	2.3	2.2	-
361	Electric distributing equipment	39.5	39.3	39.5	39.0	-	2.4	2.1	2.8	2.2	-
3612	Transformers	40.0	39.9	41.0	40.3	-	2.4	2.2	2.8	2.6	-
3613	Switchgear and switchboard apparatus	39.1	38.9	38.4	38.0	-	2.4	2.0	2.7	2.0	-
362	Electrical industrial apparatus	39.7	39.8	40.0	39.8	-	2.3	2.1	2.7	2.7	-
3621	Motors and generators	40.2	40.3	39.8	39.3	-	2.6	2.3	2.6	2.4	-
3622	Industrial controls	39.0	39.1	39.4	39.5	-	1.7	1.5	2.5	2.5	-
363	Household appliances	39.2	39.5	39.6	38.4	-	2.2	2.2	2.2	1.9	-
3632	Household refrigerators and freezers	41.4	41.1	42.2	38.0	-	1.9	1.9	2.1	1.5	-
3633	Household laundry equipment	39.1	39.7	37.8	36.7	-	1.2	2.1	1.4	.9	-
3634	Electric housewares and fans	39.1	39.1	39.4	38.6	-	2.4	2.1	2.4	2.2	-
364	Electric lighting and wiring equipment	39.1	39.7	39.5	39.3	-	2.0	2.2	2.0	1.9	-
3641	Electric lamps	39.3	40.2	41.1	40.4	-	1.6	2.1	2.0	1.6	-
3643	Current-carrying wiring devices	39.2	39.9	39.9	39.7	-	1.9	2.0	2.4	2.4	-
3644	Noncurrent-carrying wiring devices	39.7	40.7	38.9	39.8	-	2.2	2.7	2.4	2.1	-
3645	Residential lighting fixtures	37.0	38.5	38.2	37.3	-	1.1	1.6	1.3	1.4	-
365	Radio and TV receiving equipment	39.3	39.4	39.7	39.6	-	1.8	1.6	1.6	1.6	-
3651	Radio and TV receiving sets	39.3	39.1	39.5	39.1	-	1.7	1.5	1.5	1.3	-
366	Communication equipment	40.6	40.5	40.7	40.5	-	2.4	2.1	2.4	2.5	-
3661	Telephone and telegraph apparatus	40.3	40.4	41.5	41.3	-	2.1	1.9	2.6	3.0	-
3662	Radio and TV communication equipment	40.8	40.6	40.1	40.0	-	2.6	2.3	2.2	2.2	-
367	Electronic components and accessories	39.3	39.5	39.7	39.5	-	2.4	2.3	2.3	2.3	-
3671-3	Electronic tubes	41.4	41.2	39.4	40.2	-	2.4	2.2	1.7	2.1	-
3674	Semiconductors and related devices	39.4	40.0	40.3	40.0	-	2.9	2.7	2.4	2.6	-
3679	Electronic components, nec	39.5	39.5	39.9	39.5	-	2.4	2.4	2.4	2.3	-
369	Misc. electrical equipment and supplies	40.4	40.6	40.6	39.6	-	2.5	2.7	2.3	2.0	-
3691	Storage batteries	41.2	41.3	41.6	38.2	-	3.0	3.9	2.5	2.3	-
3694	Engine electrical equipment	39.7	40.2	39.7	38.8	-	2.2	2.4	2.1	1.6	-
37	TRANSPORTATION EQUIPMENT	40.7	41.1	40.5	39.8	40.2	3.4	3.7	3.3	2.9	-
371	Motor vehicles and equipment	40.2	41.2	40.9	39.1	-	2.7	3.5	3.1	2.6	-
3711	Motor vehicles and car bodies	39.7	41.6	41.0	38.1	-	2.6	3.8	3.2	2.5	-
3713	Truck and bus bodies	39.7	39.5	40.3	39.7	-	2.0	1.9	2.9	2.0	-
3714	Motor vehicle parts and accessories	40.8	41.3	41.2	39.9	-	2.9	3.5	3.2	2.8	-
3715	Truck trailers	37.6	37.6	38.0	37.7	-	1.2	1.2	1.8	1.6	-
372	Aircraft and parts	41.7	41.7	40.4	40.9	-	4.3	4.3	3.4	3.2	-
3721	Aircraft	41.6	41.8	39.8	41.2	-	3.7	3.7	3.1	2.8	-
3724	Aircraft engines and engine parts	41.6	41.3	40.4	40.1	-	5.0	4.9	3.3	3.4	-
3728	Aircraft equipment, nec	42.0	42.1	41.8	41.2	-	4.9	4.8	4.1	3.9	-
373	Ship and boat building and repairing	41.1	41.1	40.3	40.3	-	4.0	4.0	3.8	3.9	-
3731	Ship building and repairing	41.2	41.2	40.3	-	-	4.0	4.0	3.9	-	-
3732	Boat building and repairing	40.4	40.4	40.2	39.6	-	3.8	3.7	3.7	3.9	-
374	Railroad equipment *	39.3	39.0	-	-	-	2.9	2.5	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	\$384.48	\$381.64	\$408.44	\$402.56	-	\$9.47	\$9.47	\$10.06	\$10.14	-
3761	Guided missiles and space vehicles	389.91	385.52	416.07	412.09	-	9.58	9.59	10.35	10.38	-
379	Miscellaneous transportation equipment	285.73	283.01	308.33	305.37	-	7.09	7.04	7.67	7.81	-
3792	Travel trailers and campers	233.31	231.04	268.52	249.30	-	6.06	5.97	6.85	6.83	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	277.09	279.68	305.42	307.44	\$306.64	6.91	6.94	7.56	7.61	\$7.59
381	Measuring and controlling devices	297.75	296.54	318.33	323.16	-	7.28	7.34	7.86	7.94	-
382	Environmental controls	281.76	281.93	312.77	307.75	-	6.94	6.91	7.61	7.58	-
3822	Process control instruments	246.87	248.61	274.00	281.71	-	6.33	6.31	7.08	7.15	-
3823	Instruments to measure electricity	296.87	296.78	312.60	315.56	-	6.92	6.87	7.39	7.46	-
3825	Optical instruments and lenses	301.25	300.29	339.39	325.60	-	7.42	7.36	8.10	8.00	-
383	Medical instruments and supplies	305.47	304.56	329.11	327.55	-	7.58	7.52	8.29	8.23	-
384	Surgical and medical instruments	232.85	233.82	256.10	260.43	-	5.94	5.98	6.50	6.61	-
3841	Surgical appliances and supplies	228.28	231.45	256.64	262.04	-	5.75	5.83	6.40	6.47	-
3842	Ophthalmic goods	238.46	235.85	256.47	261.71	-	6.13	6.11	6.61	6.78	-
385	Photographic equipment and supplies	211.72	212.61	224.47	228.97	-	5.36	5.41	5.64	5.71	-
386	Watches, clocks, and watchcases	358.58	374.47	398.62	410.85	-	8.92	8.98	9.77	9.90	-
387	Watches, clocks, and watchcases	205.28	208.94	225.76	228.28	-	5.25	5.33	5.73	5.75	-
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	216.22	216.28	232.83	235.13	237.94	5.53	5.56	5.97	6.06	6.07
391	Jewelry, precious metal	223.69	228.93	247.56	253.63	-	5.81	5.87	6.43	6.52	-
3911	Musical instruments	217.91	224.85	246.66	256.51	-	5.78	5.81	6.56	6.68	-
393	Toys and sporting goods	214.66	216.22	232.62	235.35	-	5.49	5.53	5.98	6.05	-
394	Dolls, games, toys, and children's vehicles	199.25	199.29	217.33	220.74	-	5.07	5.11	5.53	5.66	-
3942, 4	Sporting and athletic goods, nec	186.44	186.24	207.48	206.98	-	4.83	4.85	5.32	5.39	-
3949	Pens, pencils, office and art supplies	214.27	213.05	228.49	236.02	-	5.33	5.38	5.77	5.96	-
396	Costume jewelry and notions	228.02	223.51	249.28	244.11	-	5.63	5.63	6.14	6.18	-
3961	Costume jewelry	182.96	184.12	196.60	203.18	-	4.74	4.77	5.16	5.25	-
3969	Miscellaneous manufactures	169.27	168.97	180.42	189.81	-	4.49	4.53	4.85	4.93	-
399	Signs and advertising displays	238.07	237.78	249.62	249.72	-	6.12	6.16	6.45	6.52	-
3993	Signs and advertising displays	255.45	251.90	267.42	273.78	-	6.55	6.56	6.91	7.02	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	279.68	275.92	300.00	301.29	298.65	6.94	6.95	7.50	7.57	7.58
201	Meat packing plants	283.93	278.85	298.10	302.08	-	7.17	7.15	7.49	7.59	-
2011	Sausages and other prepared meats	364.04	361.09	369.82	376.89	-	8.73	8.68	9.02	9.17	-
2013	Poultry dressing plants	324.62	320.19	353.28	355.20	-	8.26	8.21	8.81	8.88	-
2016	Dairy products	169.46	162.44	187.39	188.05	-	4.58	4.55	4.88	4.91	-
202	Cheese, natural and processed	294.84	290.34	310.99	328.74	-	7.02	7.03	7.53	7.79	-
2022	Fluid milk	271.20	272.68	284.80	296.96	-	6.78	6.80	7.12	7.48	-
2026	Preserved fruits and vegetables	311.18	304.80	324.84	345.60	-	7.22	7.24	7.79	8.00	-
203	Canned specialties	246.00	232.05	272.52	258.80	-	6.15	5.95	6.83	6.67	-
2032	Canned fruits and vegetables	296.96	282.07	304.30	314.08	-	6.89	6.70	7.28	7.55	-
2033	Frozen fruits and vegetables	253.89	222.85	287.74	260.95	-	6.30	5.88	7.14	6.64	-
2037	Grain mill products	223.29	235.20	244.38	250.48	-	5.74	5.88	6.25	6.54	-
204	Flour and other grain mill products	342.11	343.98	355.71	370.60	-	7.74	7.80	8.35	8.50	-
2041	Prepared feeds, nec	373.03	375.41	381.94	393.47	-	7.92	7.92	8.45	8.48	-
2048	Bakery products	282.83	282.04	284.14	295.67	-	6.37	6.41	6.67	6.86	-
205	Bread, cake, and related products	287.12	284.90	301.75	309.04	-	7.40	7.40	7.92	8.09	-
2051	Cookies and crackers	284.97	283.10	306.66	311.60	-	7.46	7.45	8.07	8.20	-
2052	Sugar and confectionery products	291.28	291.60	287.98	301.47	-	7.21	7.29	7.48	7.79	-
206	Cane and beet sugar	267.04	257.90	288.29	293.53	-	6.61	6.48	7.28	7.32	-
2061-3	Confectionery products	350.92	293.46	368.94	378.43	-	8.18	7.30	8.58	8.76	-
2065	Fats and oils	226.73	227.34	242.52	249.74	-	5.74	5.77	6.45	6.47	-
207	Beverages	313.34	305.28	333.48	343.87	-	7.27	7.20	7.94	7.96	-
208	Malt beverages	335.78	338.15	368.18	370.78	-	8.23	8.37	8.98	9.11	-
2082	Bottled and canned soft drinks	476.44	464.26	519.78	516.60	-	11.08	11.16	12.23	12.30	-
2086	Misc. foods and kindred products	253.53	246.80	278.39	272.52	-	6.26	6.28	6.84	6.83	-
209	Misc. foods and kindred products	234.78	230.05	247.54	248.07	-	6.02	6.07	6.48	6.58	-
TOBACCO MANUFACTURES											
21	Cigarettes	287.65	307.60	350.43	349.27	340.26	7.53	7.69	8.61	8.71	8.68
211	Cigarettes	358.88	394.61	447.69	458.38	-	9.57	9.89	10.84	11.18	-
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	208.95	210.27	226.40	221.52	225.37	5.25	5.27	5.66	5.68	5.72
221	Weaving mills, synthetics	222.49	225.64	241.57	238.19	-	5.48	5.49	5.95	5.94	-
222	Weaving and finishing mills, wool	222.49	224.66	249.60	241.40	-	5.48	5.52	6.00	5.99	-
223	Narrow fabric mills	214.27	212.93	241.12	235.34	-	5.33	5.35	5.81	5.74	-
224	Knitting mills	189.34	188.65	201.68	202.64	-	4.71	4.74	5.08	5.13	-
225	Knitting mills	183.60	184.95	199.54	193.57	-	4.87	4.88	5.21	5.26	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	40.6	40.3	40.6	39.7	-	3.6	3.3	3.3	2.5	-
3761	Guided missiles and space vehicles	40.7	40.2	40.2	39.7	-	3.3	3.0	3.1	2.3	
379	Miscellaneous transportation equipment	40.3	40.2	40.2	39.1	-	2.5	2.6	2.2	2.0	
3792	Travel trailers and campers	38.5	38.7	39.2	36.5	-	1.9	1.9	2.1	1.1	
38	INSTRUMENTS AND RELATED PRODUCTS	40.1	40.3	40.4	40.4	40.4	2.4	2.3	2.2	2.5	
381	Engineering and scientific instruments	40.9	40.4	40.5	40.7	-	2.7	2.6	2.7	3.4	
382	Measuring and controlling devices	40.6	40.8	41.1	40.6	-	2.3	2.2	2.1	2.3	
3822	Environmental controls	39.0	39.4	38.7	39.4	-	1.9	1.5	1.7	2.3	
3823	Process control instruments	42.9	43.2	42.3	42.3	-	3.6	3.6	2.5	3.0	
3825	Instruments to measure electricity	40.6	40.8	41.9	40.7	-	1.9	2.0	2.0	1.9	
383	Optical instruments and lenses	40.3	40.5	39.7	39.8	-	3.2	3.0	2.4	2.5	
384	Medical instruments and supplies	39.2	39.1	39.4	39.4	-	2.1	2.0	2.3	2.5	
3841	Surgical and medical instruments	39.7	39.7	40.1	40.5	-	1.9	1.8	2.4	2.6	
3842	Surgical appliances and supplies	38.9	38.6	38.8	38.6	-	2.7	2.3	2.4	2.7	
385	Ophthalmic goods	39.5	39.3	39.8	40.1	-	1.8	1.7	1.3	1.6	
386	Photographic equipment and supplies	40.2	41.7	40.8	41.5	-	3.0	3.2	2.3	2.9	
387	Watches, clocks, and watchcases	39.1	39.2	39.4	39.7	-	1.3	1.5	2.0	2.2	
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	39.1	38.9	39.0	38.8	39.2	2.0	2.1	2.0	2.2	
391	Jewelry, silverware, and plated ware	38.5	39.0	38.5	38.9	-	1.7	2.7	2.0	2.1	
3911	Jewelry, precious metal	37.7	38.7	37.6	38.4	-	1.7	2.9	2.0	2.2	
393	Musical instruments	39.1	39.1	38.9	38.9	-	1.2	1.4	1.2	1.5	
394	Toys and sporting goods	39.3	39.0	39.3	39.0	-	1.7	1.7	2.1	2.5	
3942, 4	Dolls, games, toys, and children's vehicles	38.6	38.4	39.0	38.4	-	1.5	1.6	2.1	2.3	
3949	Sporting and athletic goods, nec	40.2	39.6	39.6	39.6	-	2.0	1.9	2.0	2.7	
395	Pens, pencils, office and art supplies	40.5	39.7	40.6	39.5	-	2.8	2.4	2.4	1.8	
396	Costume jewelry and notions	38.6	38.6	38.1	38.7	-	2.0	2.2	1.9	2.2	
3961	Costume jewelry	37.7	37.3	37.2	38.5	-	1.4	1.8	1.5	2.2	
399	Miscellaneous manufactures	38.9	38.6	38.7	38.3	-	2.4	2.2	1.9	2.0	
3993	Signs and advertising displays	39.0	38.4	38.7	39.0	-	2.7	2.3	2.4	2.5	
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	40.3	39.7	40.0	39.8	39.4	4.4	3.9	4.0	4.2	
201	Meat products	39.6	39.0	39.8	39.8	-	3.9	3.6	3.7	3.9	
2011	Meat packing plants	41.7	41.6	41.0	41.1	-	5.2	4.9	4.4	5.2	
2013	Sausages and other prepared meats	39.3	39.0	40.1	40.0	-	3.0	2.9	3.7	3.6	
2016	Poultry dressing plants	37.0	35.7	38.4	38.3	-	2.6	2.4	3.0	2.5	
202	Dairy products	42.0	41.3	41.3	42.2	-	4.4	3.8	3.9	4.6	
2022	Cheese, natural and processed	40.0	40.1	40.0	39.7	-	3.7	3.4	3.2	3.6	
2026	Fluid milk	43.1	42.1	41.7	43.2	-	4.9	4.2	4.3	5.4	
203	Preserved fruits and vegetables	40.0	39.0	39.9	38.8	-	5.2	4.1	4.6	4.4	
2032	Canned specialties	43.1	42.1	41.8	41.6	-	8.7	7.5	4.9	4.6	
2033	Canned fruits and vegetables	40.3	37.9	40.3	39.3	-	5.8	4.1	5.3	5.0	
2037	Frozen fruits and vegetables	38.9	40.0	39.1	38.3	-	3.8	4.3	4.4	4.6	
204	Grain mill products	44.2	44.1	42.6	43.6	-	6.4	6.3	5.6	6.3	
2041	Flour and other grain mill products	47.1	47.4	45.2	46.4	-	7.7	7.1	5.9	7.0	
2048	Prepared feeds, nec	44.4	44.0	42.6	43.1	-	7.0	6.5	5.8	6.1	
205	Bakery products	38.8	38.5	38.1	38.2	-	3.5	3.3	3.1	3.6	
2051	Bread, cake, and related products	38.2	38.0	38.0	38.0	-	3.7	3.5	3.3	4.0	
2052	Cookies and crackers	40.4	40.0	38.5	38.7	-	2.9	2.8	2.4	2.4	
206	Sugar and confectionery products	40.4	39.8	39.6	40.1	-	3.1	3.3	2.6	3.2	
2061-3	Cane and beet sugar	42.9	40.2	43.0	43.2	-	3.7	4.1	3.8	5.1	
2065	Confectionery products	39.5	39.4	37.6	38.6	-	2.8	3.0	2.1	2.4	
207	Fats and oils	43.1	42.4	42.0	43.2	-	5.3	5.6	5.1	5.7	
208	Beverages	40.8	40.4	41.0	40.7	-	4.4	3.8	4.4	4.4	
2082	Malt beverages	43.0	41.6	42.5	42.0	-	5.8	4.9	6.4	6.4	
2086	Bottled and canned soft drinks	40.5	39.3	40.7	39.9	-	4.0	3.1	4.4	3.6	
209	Misc. foods and kindred products	39.0	37.9	38.2	37.7	-	3.9	3.3	3.4	3.5	
21	TOBACCO MANUFACTURES	38.2	40.0	40.7	40.1	39.2	1.8	2.6	2.5	2.6	
211	Cigarettes	37.5	39.9	41.3	41.0	-	1.7	3.1	2.8	3.3	
22	TEXTILE MILL PRODUCTS	39.8	39.9	40.0	39.0	39.4	3.0	3.0	3.2	2.7	
221	Weaving mills, cotton	40.6	41.1	40.6	40.1	-	3.6	3.7	3.6	3.1	
222	Weaving mills, synthetics	40.6	40.7	41.6	40.3	-	3.1	3.4	3.9	3.1	
223	Weaving and finishing mills, wool	40.2	39.8	41.5	41.0	-	2.7	2.5	4.5	3.0	
224	Narrow fabric mills	40.2	39.8	39.7	39.5	-	2.1	2.2	2.7	2.1	
225	Knitting mills	37.7	37.9	38.3	36.8	-	2.2	2.2	2.4	1.9	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	\$158.10	\$155.60	\$188.48	\$181.80	-	\$4.53	\$4.51	\$4.96	\$5.05	-
2252	Hosiery, nec	172.33	172.96	185.17	178.85	-	4.62	4.60	4.86	4.90	-
2253	Knit outerwear mills	181.93	183.74	194.44	186.79	-	4.75	4.76	5.09	5.16	-
2254	Knit underwear mills	168.36	169.46	182.77	179.57	-	4.60	4.63	4.98	5.03	-
2257	Circular knit fabric mills	221.45	222.64	230.29	233.84	-	5.55	5.58	5.92	5.92	-
226	Textile finishing, except wool	226.85	226.80	241.98	238.58	-	5.56	5.60	5.96	6.04	-
2261	Finishing plants, cotton	225.50	224.22	243.61	243.97	-	5.68	5.72	6.06	6.13	-
2262	Finishing plants, synthetics	238.52	241.76	253.59	241.25	-	5.72	5.77	6.17	6.25	-
227	Floor covering mills	226.59	221.66	230.22	222.14	-	5.46	5.38	5.77	5.74	-
228	Yarn and thread mills	193.75	195.03	210.40	209.13	-	4.93	4.95	5.34	5.39	-
2281	Yarn mills, except wool	195.92	196.71	212.12	208.21	-	4.96	4.98	5.37	5.38	-
2282	Throwing and winding mills	186.12	184.16	196.86	208.17	-	4.76	4.71	5.10	5.27	-
229	Miscellaneous textile goods	242.44	244.53	256.68	254.78	-	5.80	5.85	6.20	6.26	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	165.09	167.92	180.77	177.76	\$179.93	4.69	4.73	4.98	5.05	\$5.04
231	Men's and boys' suits and coats	189.72	194.39	206.96	209.02	-	5.27	5.43	5.67	5.79	-
232	Men's and boys' furnishings	154.94	155.23	168.52	164.88	-	4.28	4.30	4.53	4.58	-
2321	Men's and boys' shirts and nightwear	152.46	152.46	165.17	158.20	-	4.20	4.20	4.44	4.52	-
2327	Men's and boys' separate trousers	152.25	157.35	168.18	169.82	-	4.35	4.42	4.57	4.64	-
2328	Men's and boys' work clothing	153.87	152.15	169.67	161.62	-	4.17	4.18	4.43	4.44	-
233	Women's and misses' outerwear	155.80	157.56	171.34	165.46	-	4.75	4.76	5.01	5.06	-
2331	Women's and misses' blouses and waists	146.06	149.94	161.24	157.56	-	4.36	4.41	4.66	4.76	-
2335	Women's and misses' dresses	150.79	152.57	169.11	162.13	-	4.88	4.89	5.14	5.18	-
2337	Women's and misses' suits and coats	177.66	178.13	192.42	185.32	-	5.21	5.27	5.61	5.65	-
2339	Women's and misses' outerwear, nec	153.79	155.72	167.20	163.06	-	4.55	4.54	4.75	4.81	-
234	Women's and children's undergarments	152.10	153.67	167.61	166.81	-	4.19	4.21	4.53	4.57	-
2341	Women's and children's underwear	151.52	152.67	165.84	165.97	-	4.14	4.16	4.47	4.51	-
2342	Brassieres and allied garments	155.31	159.67	174.24	171.56	-	4.45	4.46	4.80	4.86	-
236	Children's outerwear	153.44	156.52	165.53	165.43	-	4.31	4.30	4.56	4.66	-
2361	Children's dresses and blouses	146.89	153.91	163.35	163.90	-	4.27	4.24	4.55	4.63	-
238	Misc. apparel and accessories	162.81	166.50	183.52	181.06	-	4.51	4.50	4.92	4.92	-
239	Misc. fabricated textile products	208.30	214.48	226.40	226.10	-	5.54	5.60	5.82	5.95	-
2391	Curtains and draperies	148.83	148.27	170.69	167.10	-	4.10	4.13	4.48	4.48	-
2392	House furnishing, nec	172.58	178.79	192.84	190.68	-	4.59	4.62	4.97	4.94	-
2396	Automotive and apparel trimmings	346.33	358.90	398.67	391.95	-	9.09	9.25	9.70	10.05	-
26	PAPER AND ALLIED PRODUCTS	340.94	341.40	368.48	386.24	369.28	8.06	8.09	8.67	8.92	8.73
261, 26	Paper and pulp mills	423.25	418.44	450.97	497.38	-	9.49	9.51	10.18	10.56	-
262	Paper mills, except building paper	423.41	420.91	452.93	504.57	-	9.43	9.48	10.11	10.49	-
263	Paperboard mills	418.13	423.70	446.61	490.82	-	9.46	9.50	10.22	10.67	-
264	Misc. converted paper products	284.01	285.73	314.42	316.24	-	7.03	7.09	7.65	7.77	-
2641	Paper coating and glazing	316.65	321.94	365.93	377.04	-	7.78	7.91	8.61	8.83	-
2642	Envelopes	254.40	257.84	288.05	281.50	-	6.36	6.43	7.06	7.02	-
2643	Bags, except textile bags	273.10	275.40	296.30	294.74	-	5.71	6.75	7.28	7.35	-
265	Paperboard containers and boxes	294.65	295.07	317.75	315.18	-	7.10	7.11	7.62	7.65	-
2651	Folding paperboard boxes	300.66	302.21	321.68	318.94	-	7.21	7.23	7.77	7.76	-
2653	Corrugated and solid fiber boxes	313.44	315.46	339.25	339.78	-	7.41	7.44	8.02	8.09	-
2654	Sanitary food containers	281.23	276.45	298.50	288.40	-	5.68	6.71	7.04	7.00	-
27	PRINTING AND PUBLISHING	287.56	287.93	310.13	314.63	312.48	7.73	7.74	8.27	8.39	8.40
271	Newspapers	260.97	266.34	283.42	294.46	-	7.79	7.88	8.41	8.61	-
272	Periodicals	275.26	273.42	290.63	291.00	-	7.36	7.35	7.75	7.76	-
273	Books	270.23	270.61	294.52	294.10	-	7.13	7.14	7.63	7.76	-
2731	Book publishing	263.52	257.23	284.93	282.68	-	6.99	6.99	7.42	7.64	-
2732	Book printing	278.10	283.92	305.75	307.32	-	7.28	7.28	7.86	7.88	-
274	Miscellaneous publishing	248.79	248.29	274.54	273.04	-	6.93	6.84	7.40	7.46	-
275	Commercial printing	312.27	308.70	334.07	337.08	-	8.09	8.06	8.61	8.71	-
2751	Commercial printing, letterpress	289.18	285.39	311.08	315.65	-	7.59	7.55	8.08	8.22	-
2752	Commercial printing, lithographic	321.26	318.45	345.93	349.83	-	8.28	8.25	8.87	8.97	-
276	Manifold business forms	301.55	303.51	331.70	333.20	-	7.52	7.55	8.19	8.33	-
278	Blankbooks and bookbinding	231.08	228.48	240.14	244.99	-	5.91	5.95	6.27	6.38	-
279	Printing trade services	365.53	365.31	394.61	392.31	-	9.67	9.69	10.33	10.27	-
28	CHEMICALS AND ALLIED PRODUCTS	349.81	354.00	380.47	396.77	384.92	8.47	8.53	9.19	9.38	9.32
281	Industrial inorganic chemicals	384.81	389.69	425.60	449.02	-	9.34	9.39	10.33	10.59	-
2819	Industrial inorganic chemicals, nec	383.39	386.63	424.32	450.05	-	9.42	9.43	10.40	10.69	-
282	Plastics materials and synthetics	341.53	346.94	380.87	411.06	-	8.33	8.36	9.09	9.30	-
2821	Plastics materials and resins	377.80	388.94	415.38	444.84	-	9.06	9.13	9.89	10.11	-
2824	Organic fibers, noncellulosic	315.52	319.43	360.32	390.27	-	7.81	7.81	8.62	8.77	-
283	Drugs	319.87	322.26	340.71	352.70	-	7.84	7.86	8.31	8.54	-
2834	Pharmaceutical preparations	302.30	304.67	322.80	332.92	-	7.52	7.56	8.07	8.20	-

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				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	TEXTILE MILL PRODUCTS—Continued										
2251	Women's hosiery, except socks	34.9	34.5	38.0	36.0	-	0.9	0.8	2.3	2.0	-
2252	Hosiery, nec	37.3	37.6	38.1	36.5	-	2.2	1.9	2.2	1.7	-
2253	Knit outerwear mills	38.3	38.6	38.2	36.2	-	2.5	2.6	2.4	2.0	-
2254	Knit underwear mills	36.6	36.6	36.7	35.7	-	1.5	1.4	1.4	1.5	-
2257	Circular knit fabric mills	39.9	39.9	38.9	39.5	-	3.5	3.2	2.4	1.9	-
228	Textile finishing, except wool	40.8	40.5	40.6	39.5	-	3.4	3.3	3.6	3.2	-
2261	Finishing plants, cotton	39.7	39.2	40.2	39.8	-	3.2	3.0	3.3	3.4	-
2262	Finishing plants, synthetics	41.7	41.9	41.1	38.6	-	3.9	4.1	4.0	3.0	-
227	Floor covering mills	41.5	41.2	39.9	38.7	-	4.3	3.8	3.7	2.7	-
228	Yarn and thread mills	39.3	39.4	39.4	38.8	-	2.8	2.9	2.9	2.9	-
2281	Yarn mills, except wool	39.5	39.5	39.5	38.7	-	2.9	3.1	3.1	2.8	-
2282	Throwing and winding mills	39.1	39.1	38.6	39.5	-	3.4	2.8	2.7	3.6	-
229	Miscellaneous textile goods	41.8	41.8	41.4	40.7	-	3.7	3.7	3.9	3.4	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.2	35.5	36.3	35.2	35.7	1.1	1.1	1.3	1.0	-
231	Men's and boys' suits and coats	36.0	35.8	36.5	36.1	-	.9	.8	.8	.8	-
232	Men's and boys' furnishings	36.2	36.1	37.2	36.0	-	1.1	1.0	1.1	.8	-
2321	Men's and boys' shirts and nightwear	36.3	36.3	37.2	35.0	-	1.1	1.1	1.0	.8	-
2327	Men's and boys' separate trousers	35.0	35.6	36.8	36.6	-	1.0	.9	1.1	.9	-
2328	Men's and boys' work clothing	36.9	36.4	38.3	36.4	-	1.4	1.1	1.2	.9	-
233	Women's and misses' outerwear	32.8	33.1	34.2	32.7	-	.8	.9	1.1	.8	-
2331	Women's and misses' blouses and waists	33.5	34.0	34.6	33.1	-	.8	.9	1.1	.7	-
2335	Women's and misses' dresses	30.9	31.2	32.9	31.3	-	.7	.8	1.0	.7	-
2337	Women's and misses' suits and coats	34.1	33.8	34.3	32.8	-	1.0	.9	1.0	.8	-
2339	Women's and misses' outerwear, nec	33.8	34.3	35.2	33.9	-	.9	.9	1.2	.9	-
234	Women's and children's undergarments	36.3	36.5	37.0	36.5	-	1.1	1.2	1.5	1.6	-
2341	Women's and children's underwear	36.6	36.7	37.1	36.8	-	1.1	1.2	1.5	1.6	-
2342	Brasieres and allied garments	34.9	35.8	36.3	35.3	-	.9	1.2	1.5	1.5	-
236	Children's outerwear	35.6	36.4	36.3	35.5	-	1.1	1.2	1.8	1.2	-
2361	Children's dresses and blouses	34.4	36.3	35.9	35.4	-	.9	1.1	1.3	1.2	-
238	Misc. apparel and accessories	36.1	37.0	37.3	36.8	-	1.2	1.5	1.6	1.4	-
239	Misc. fabricated textile products	37.6	38.3	38.9	38.0	-	1.9	2.0	2.1	1.8	-
2391	Curtains and draperies	36.3	35.9	38.1	37.3	-	.6	.6	1.4	1.4	-
2392	House furnishings, nec	37.6	38.7	38.8	38.6	-	1.8	2.1	2.1	2.1	-
2396	Automotive and apparel trimmings	38.1	38.8	41.1	39.0	-	3.2	2.7	2.8	2.0	-
26	PAPER AND ALLIED PRODUCTS	42.3	42.2	42.5	43.3	42.3	4.6	4.5	4.5	5.4	-
261, 2, 6	Paper and pulp mills	44.6	44.0	44.3	47.1	-	7.0	6.5	6.2	8.5	-
262	Paper mills, except building paper	44.9	44.4	44.8	48.1	-	7.1	6.7	6.4	8.9	-
263	Paperboard mills	44.2	44.6	43.7	46.0	-	6.8	7.1	6.8	9.6	-
264	Misc. converted paper products	40.4	40.3	41.1	40.7	-	3.0	2.8	2.9	2.9	-
2641	Paper coating and glazing	40.7	40.7	42.5	42.7	-	3.2	3.1	3.2	3.3	-
2642	Envelopes	40.0	40.1	40.8	40.1	-	2.5	2.2	2.8	2.3	-
2643	Bags, except textile bags	40.7	40.8	40.7	40.1	-	3.1	3.0	3.0	3.1	-
265	Paperboard containers and boxes	41.5	41.5	41.7	41.2	-	3.4	3.3	3.8	3.6	-
2651	Folding paperboard boxes	41.7	41.8	41.4	41.1	-	3.9	3.9	3.8	3.5	-
2653	Corrugated and solid fiber boxes	42.3	42.4	42.3	42.0	-	3.4	3.5	4.3	4.2	-
2654	Sanitary food containers	42.1	41.2	42.4	41.2	-	3.7	2.9	3.5	3.0	-
27	PRINTING AND PUBLISHING	37.2	37.2	37.5	37.5	37.2	2.8	2.6	2.6	2.8	-
271	Newspapers	33.5	33.8	33.7	34.2	-	1.8	2.0	1.7	1.9	-
272	Periodicals	37.4	37.2	37.5	37.5	-	3.0	2.7	2.3	2.9	-
273	Books	37.9	37.9	38.6	37.9	-	2.4	2.1	2.5	2.2	-
2731	Book publishing	37.7	36.8	38.4	37.0	-	1.5	1.0	1.7	1.2	-
2732	Book printing	38.2	39.0	38.9	39.0	-	3.4	3.2	3.4	3.3	-
274	Miscellaneous publishing	35.9	36.3	37.1	36.6	-	1.8	1.6	2.0	2.1	-
275	Commercial printing	38.6	38.3	38.8	38.7	-	3.4	3.0	3.1	3.3	-
2751	Commercial printing, letterpress	38.1	37.8	38.5	38.4	-	2.8	2.5	2.4	2.8	-
2752	Commercial printing, lithographic	38.8	38.6	39.0	39.0	-	3.7	3.2	3.5	3.6	-
276	Manifold business forms	40.1	40.2	40.5	40.0	-	2.9	2.7	3.2	3.4	-
278	Blankbooks and bookbinding	39.1	38.4	38.3	38.4	-	2.2	1.9	1.6	1.8	-
279	Printing trade service	37.8	37.7	38.2	38.2	-	3.9	3.7	3.8	3.5	-
28	CHEMICALS AND ALLIED PRODUCTS	41.3	41.5	41.4	42.3	41.3	3.1	3.2	3.3	3.7	-
281	Industrial inorganic chemicals	41.2	41.5	41.2	42.4	-	3.0	3.1	3.3	4.2	-
2819	Industrial inorganic chemicals, nec	40.7	41.0	40.8	42.1	-	2.8	3.0	3.1	4.2	-
282	Plastics materials and synthetics	41.0	41.5	41.9	44.2	-	2.5	2.7	3.6	4.0	-
2821	Plastics materials and resins	41.7	42.6	42.0	44.0	-	3.6	4.0	4.4	5.4	-
2824	Organic fibers, noncellulosic	40.4	40.9	41.8	44.5	-	1.5	1.7	3.2	3.2	-
283	Drugs	40.8	41.0	41.0	41.3	-	3.0	3.0	2.7	3.2	-
2834	Pharmaceutical preparations	40.2	40.3	40.0	40.6	-	3.0	3.0	2.7	3.2	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$316.93	\$316.27	\$337.74	\$339.65	-	\$7.73	\$7.79	\$8.36	\$8.47	-
2841	Soap and other detergents	427.23	423.67	453.88	458.81	-	10.10	10.16	10.73	10.95	-
2844	Toilet preparations	247.46	247.63	251.55	253.44	-	6.11	6.16	6.50	6.60	-
2842, 3	Polishing, sanitation, and finishing preparations	297.48	298.80	349.38	345.14	-	7.40	7.47	8.48	8.48	-
285	Paints and allied products	302.71	310.59	326.01	328.42	-	7.53	7.65	8.13	8.19	-
286	Industrial organic chemicals	416.66	424.42	459.19	482.46	-	9.85	10.01	10.83	10.99	-
2865	Cyclic crudes and intermediates	368.18	391.35	421.82	444.74	-	8.98	9.34	10.14	10.44	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	433.14	435.37	470.73	494.83	-	10.12	10.22	11.05	11.17	-
287	Agricultural chemicals	369.73	368.90	383.18	397.81	-	8.48	8.50	9.08	9.23	-
289	Miscellaneous chemical products	322.77	328.02	348.06	356.01	-	7.95	8.02	8.51	8.62	-
29	PETROLEUM AND COAL PRODUCTS	448.32	453.61	486.33	505.12	\$494.42	10.33	10.38	11.31	11.48	\$11.34
291	Petroleum refining	478.90	485.27	520.99	542.57	-	11.06	11.13	12.06	12.22	-
295	Paving and roofing materials	361.71	366.30	386.24	391.78	-	8.11	8.14	8.92	9.09	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	270.82	276.35	295.73	294.52	300.17	6.72	6.79	7.32	7.40	7.43
301	Tires and inner tubes	423.43	432.37	474.24	464.62	-	10.13	10.27	11.40	11.36	-
302	Rubber and plastics footwear	185.12	190.32	175.96	168.22	-	4.45	4.51	4.73	4.82	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	299.71	297.44	327.54	323.61	-	7.17	7.15	7.95	8.05	-
306	Fabricated rubber products, nec	252.63	257.18	273.08	271.56	-	6.30	6.35	6.81	6.91	-
307	Miscellaneous plastics products	242.99	248.46	265.98	266.93	-	6.09	6.15	6.60	6.69	-
31	LEATHER AND LEATHER PRODUCTS	167.71	170.19	183.39	183.03	186.58	4.62	4.65	4.97	5.07	5.07
311	Leather tanning and finishing	247.44	252.46	259.38	257.95	-	6.14	6.28	6.55	6.70	-
314	Footwear, except rubber	161.01	161.73	174.36	174.57	-	4.46	4.48	4.79	4.89	-
3143	Men's footwear, except athletic	173.82	175.96	185.87	189.22	-	4.66	4.73	5.01	5.17	-
3144	Women's footwear, except athletic	148.61	149.04	167.08	164.15	-	4.32	4.32	4.68	4.69	-
316	Luggage	181.05	178.24	197.84	191.78	-	4.88	4.87	5.22	5.24	-
317	Handbags and personal leather goods	154.61	161.09	173.43	173.99	-	4.43	4.45	4.70	4.86	-
	TRANSPORTATION AND PUBLIC UTILITIES	358.09	365.76	390.66	390.22	391.39	9.02	9.19	9.89	9.98	10.01
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	448.49	446.90	447.72	-	-	10.31	10.25	10.66	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	218.40	218.83	268.42	221.40	-	6.50	6.38	7.12	6.75	-
411	Local and suburban transportation	272.53	275.26	296.54	291.51	-	6.97	7.04	7.34	7.38	-
413	Intercity highway transportation	365.74	366.54	429.75	-	-	10.42	10.21	11.25	-	-
42	TRUCKING AND WAREHOUSING	366.42	370.83	395.97	390.01	-	9.30	9.46	10.05	10.13	-
421, 3	Trucking and trucking terminals	374.86	379.85	404.24	399.12	-	9.49	9.69	10.26	10.34	-
422	Public warehousing	251.74	248.82	271.05	269.63	-	6.59	6.38	6.95	7.04	-
46	PIPE LINES, EXCEPT NATURAL GAS	444.78	445.30	482.72	493.73	-	10.49	10.19	11.20	11.59	-
48	COMMUNICATION	342.50	359.68	394.00	407.03	-	8.52	9.06	9.85	10.10	-
481	Telephone communication	352.81	376.14	413.70	429.62	-	8.69	9.38	10.24	10.53	-
4817	Switchboard operating employees ³	233.06	265.20	284.97	317.04	-	7.02	7.80	8.26	8.71	-
4818	Line construction employees ⁴	465.75	493.71	524.92	544.57	-	10.35	11.17	11.93	12.21	-
483	Radio and television broadcasting	290.70	289.18	316.47	324.42	-	7.63	7.63	8.35	8.56	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	379.39	382.81	411.41	418.97	-	9.12	9.18	10.01	10.12	-
491	Electric services	396.53	393.12	419.15	423.90	-	9.33	9.36	10.10	10.19	-
492	Gas production and distribution	339.69	357.34	371.39	379.61	-	8.45	8.59	9.17	9.35	-
493	Combination utility services	409.53	414.41	462.89	472.69	-	9.94	10.01	11.29	11.39	-
495	Sanitary services	300.96	302.10	322.73	344.29	-	7.20	7.21	7.91	8.12	-
	WHOLESALE AND RETAIL TRADE	179.03	179.44	194.83	194.17	191.40	5.56	5.59	5.94	6.03	6.00
50, 51	WHOLESALE TRADE	272.20	274.38	296.83	296.84	297.61	7.07	7.09	7.67	7.71	7.73
50	WHOLESALE TRADE-DURABLE GOODS	275.02	276.90	299.51	298.38	-	7.07	7.10	7.66	7.71	-
501	Motor vehicles and automotive equipment	249.98	254.37	273.86	268.38	-	6.51	6.59	7.04	7.10	-
502	Furniture and home furnishings	235.79	239.67	261.85	264.79	-	6.39	6.46	7.02	7.08	-
503	Lumber and construction materials	279.63	278.00	312.05	310.86	-	7.17	7.11	7.92	7.93	-
504	Sporting goods, toys, and hobby goods	274.81	272.63	299.30	303.96	-	7.27	7.27	7.96	8.02	-

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				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	41.0	40.6	40.4	40.1	-	3.3	3.0	3.2	2.9	-
2841	Soap and other detergents	42.3	41.7	42.3	41.9	-	4.3	4.1	4.4	3.8	-
2844	Toilet preparations	40.5	40.2	38.7	38.4	-	2.9	2.6	2.3	2.3	-
2842, 3	Polishing, sanitation, and finishing preparations	40.2	40.0	41.2	40.7	-	2.7	2.4	3.1	2.9	-
285	Paints and allied products	40.2	40.6	40.1	40.1	-	2.4	2.6	2.7	2.6	-
286	Industrial organic chemicals	42.3	42.4	42.4	43.9	-	3.2	3.6	3.8	4.1	-
2865	Cyclic crudes and intermediates	41.0	41.9	41.6	42.6	-	2.5	3.2	3.4	4.0	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	42.8	42.6	42.6	44.3	-	3.4	3.7	3.9	4.2	-
287	Agricultural chemicals	43.6	43.4	42.2	43.1	-	5.2	5.3	4.1	4.5	-
289	Miscellaneous chemical products	40.6	40.9	40.9	41.3	-	3.2	3.3	3.0	3.4	-
29	PETROLEUM AND COAL PRODUCTS	43.4	43.7	43.0	44.0	43.6	3.9	4.2	3.8	3.9	-
291	Petroleum refining	43.3	43.6	43.2	44.4	-	3.4	3.7	3.4	3.6	-
295	Paving and roofing materials	44.6	45.0	43.3	43.1	-	6.8	7.0	5.9	5.5	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	40.3	40.7	40.4	39.8	40.4	3.1	3.1	3.2	3.1	-
301	Tires and inner tubes	41.8	42.1	41.6	40.9	-	3.3	3.3	3.7	3.0	-
302	Rubber and plastics footwear	41.6	42.2	37.2	34.9	-	3.2	3.2	2.0	1.4	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	41.8	41.6	41.2	40.2	-	3.2	2.7	3.1	2.8	-
306	Fabricated rubber products, nec	40.1	40.5	40.1	39.3	-	2.6	2.7	2.7	2.6	-
307	Miscellaneous plastics products	39.9	40.4	40.3	39.9	-	3.1	3.2	3.2	3.3	-
31	LEATHER AND LEATHER PRODUCTS	36.3	36.6	36.9	36.1	36.8	1.5	1.5	1.5	1.3	-
311	Leather tanning and finishing	40.3	40.2	39.6	38.5	-	3.1	2.8	3.0	2.4	-
314	Footwear, except rubber	36.1	36.1	36.4	35.7	-	1.2	1.1	1.2	1.0	-
3143	Men's footwear, except athletic	37.3	37.2	37.1	36.6	-	1.3	1.1	1.3	.9	-
3144	Women's footwear, except athletic	34.4	34.5	35.7	35.0	-	1.1	1.1	1.2	1.1	-
316	Luggage	37.1	36.6	37.9	36.6	-	2.4	2.1	1.3	1.2	-
317	Handbags and personal leather goods	34.9	36.2	36.9	35.8	-	1.5	2.1	1.9	1.7	-
-	TRANSPORTATION AND PUBLIC UTILITIES	39.7	39.8	39.5	39.1	39.1	-	-	-	-	-
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	43.5	43.6	42.0	-	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	33.6	34.3	37.7	32.8	-	-	-	-	-	-
411	Local and suburban transportation	39.1	39.1	40.4	39.5	-	-	-	-	-	-
413	Intercity highway transportation	35.1	35.9	38.2	-	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	39.4	39.2	39.4	38.5	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	39.5	39.2	39.4	38.6	-	-	-	-	-	-
422	Public warehousing	38.2	39.0	39.0	38.3	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	42.4	43.7	43.1	42.6	-	-	-	-	-	-
48	COMMUNICATION	40.2	39.7	40.0	40.3	-	-	-	-	-	-
481	Telephone communication	40.6	40.1	40.4	40.8	-	-	-	-	-	-
4817	Switchboard operating employees ³	33.2	34.0	34.5	36.4	-	-	-	-	-	-
4818	Line construction employees ⁴	45.0	44.2	44.0	44.6	-	-	-	-	-	-
483	Radio and television broadcasting	38.1	37.9	37.9	37.9	-	-	-	-	-	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.6	41.7	41.1	41.4	-	-	-	-	-	-
491	Electric services	42.5	42.0	41.5	41.6	-	-	-	-	-	-
492	Gas production and distribution	40.2	41.6	40.5	40.6	-	-	-	-	-	-
493	Combination utility services	41.2	41.4	41.0	41.5	-	-	-	-	-	-
495	Sanitary services	41.8	41.9	40.8	42.4	-	-	-	-	-	-
-	WHOLESALE AND RETAIL TRADE	32.2	32.1	32.8	32.2	31.9	-	-	-	-	-
50, 51	WHOLESALE TRADE	38.5	38.7	38.7	38.5	38.5	-	-	-	-	-
50	WHOLESALE TRADE-DURABLE GOODS	38.9	39.0	39.1	38.7	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	38.4	38.6	38.9	37.8	-	-	-	-	-	-
502	Furniture and home furnishings	36.9	37.1	37.3	37.4	-	-	-	-	-	-
503	Lumber and construction materials	39.0	39.1	39.4	39.2	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.8	37.5	37.6	37.9	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	\$328.60	\$330.26	\$350.46	\$348.38	-	\$6.34	\$8.34	\$8.85	\$8.91	-
506	Electrical goods	286.30	285.82	318.55	318.94	-	7.36	7.31	8.21	8.22	-
507	Hardware, plumbing, and heating equipment	258.72	260.16	277.22	277.15	-	6.72	6.74	7.09	7.18	-
508	Machinery, equipment, and supplies	286.10	289.14	310.47	308.89	-	7.28	7.32	7.86	7.90	-
509	Miscellaneous durable goods	228.05	231.39	243.42	242.06	-	5.97	6.01	6.29	6.32	-
51	WHOLESALE TRADE-NONDURABLE GOODS	267.57	269.37	291.46	294.13	-	7.06	7.07	7.67	7.72	-
511	Paper and paper products	293.83	298.84	315.24	314.64	-	8.05	8.21	8.52	8.55	-
512	Drugs, proprietaries, and sundries	285.38	280.50	306.90	308.84	-	7.59	7.50	8.25	8.28	-
513	Apparel, piece goods, and notions	236.43	236.48	252.59	250.80	-	6.39	6.34	6.79	6.76	-
514	Groceries and related products	265.73	267.25	292.61	297.98	-	7.03	7.07	7.66	7.76	-
516	Chemicals and allied products	330.62	331.06	351.01	355.29	-	8.37	8.36	9.07	9.11	-
517	Petroleum and petroleum products	335.75	339.95	361.27	366.00	-	8.50	8.52	9.10	9.15	-
518	Beer, wine, and distilled beverages	298.52	302.29	333.00	330.26	-	8.09	8.17	9.00	8.95	-
519	Miscellaneous nondurable goods	222.91	226.59	239.62	240.41	-	5.82	5.84	6.24	6.31	-
52-59	RETAIL TRADE	149.49	149.40	162.53	161.87	\$157.94	4.95	4.98	5.26	5.36	\$5.30
52	BUILDING MATERIALS AND GARDEN SUPPLIES	201.25	201.28	216.00	215.34	-	5.41	5.44	5.76	5.82	-
521	Lumber and other building materials	221.52	222.69	235.59	234.08	-	5.68	5.71	6.01	6.08	-
525	Hardware stores	159.87	158.59	175.58	175.26	-	4.73	4.72	5.06	5.08	-
53	GENERAL MERCHANDISE STORES	142.49	141.52	153.99	159.60	-	4.83	4.83	5.15	5.32	-
531	Department stores	148.09	146.79	159.13	166.70	-	5.02	5.01	5.34	5.52	-
533	Variety stores	114.17	113.00	124.91	123.84	-	3.87	3.87	4.22	4.30	-
539	Misc. general merchandise stores	115.25	115.44	131.94	128.70	-	3.92	3.90	4.27	4.29	-
54	FOOD STORES	202.84	201.16	220.06	226.49	-	6.46	6.51	6.92	7.19	-
541	Grocery stores	211.76	209.61	229.44	237.23	-	6.68	6.74	7.17	7.46	-
546	Retail bakeries	134.56	135.02	144.45	140.43	-	4.64	4.64	4.88	4.91	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	213.75	217.53	235.22	229.02	-	5.70	5.77	6.19	6.14	-
551,2	New and used car dealers	253.75	258.34	278.36	269.42	-	6.66	6.71	7.23	7.09	-
553	Auto and home supply stores	211.23	214.25	233.21	225.44	-	5.19	5.29	5.73	5.65	-
554	Gasoline service stations	158.30	162.34	175.21	171.78	-	4.51	4.56	4.84	4.88	-
56	APPAREL AND ACCESSORY STORES	123.82	123.80	136.46	136.51	-	4.36	4.39	4.61	4.74	-
561	Men's and boys' clothing and furnishings	155.50	158.18	168.35	167.90	-	4.89	4.99	5.18	5.33	-
562	Women's ready-to-wear stores	109.62	109.61	123.11	122.27	-	4.06	4.09	4.35	4.43	-
565	Family clothing stores	117.58	115.87	133.15	131.41	-	4.26	4.26	4.56	4.66	-
566	Shoe stores	132.77	132.31	139.12	143.92	-	4.61	4.61	4.70	4.98	-
57	FURNITURE AND HOME FURNISHINGS STORES	195.51	196.87	210.50	207.76	-	5.70	5.69	5.98	5.97	-
571	Furniture and home furnishings stores	195.74	196.49	210.70	207.35	-	5.69	5.63	6.02	6.01	-
572	Household appliance stores	210.25	214.31	222.14	221.79	-	5.99	6.02	6.24	6.23	-
573	Radio, television, and music stores	187.71	187.25	201.43	201.34	-	5.57	5.64	5.69	5.72	-
58	EATING AND DRINKING PLACES ¹	97.46	96.98	107.29	103.88	-	3.72	3.73	3.93	3.98	-
59	MISCELLANEOUS RETAIL	152.70	153.50	163.33	160.27	-	4.91	4.92	5.12	5.17	-
591	Drug stores and proprietary stores	130.50	131.11	142.92	141.43	-	4.50	4.49	4.78	4.86	-
594	Miscellaneous shopping goods stores	137.70	136.94	150.10	144.30	-	4.59	4.58	4.75	4.81	-
596	Nonstore retailers	194.97	192.72	200.18	196.14	-	5.82	5.77	5.94	5.89	-
598	Fuel and ice dealers	241.04	251.29	258.40	259.62	-	6.31	6.46	6.80	6.85	-
599	Retail stores, nec	163.51	165.00	170.17	167.64	-	4.94	5.00	5.22	5.19	-
-	FINANCE, INSURANCE, AND REAL ESTATE ²	211.91	214.53	231.23	228.96	232.04	5.87	5.91	6.37	6.36	6.41
60	BANKING	181.94	182.50	200.75	196.57	-	5.04	5.00	5.47	5.43	-
602	Commercial and stock savings banks	178.70	179.58	197.98	193.67	-	4.95	4.92	5.38	5.35	-
61	CREDIT AGENCIES OTHER THAN BANKS	188.55	190.53	209.79	206.42	-	5.18	5.22	5.67	5.64	-
612	Savings and loan associations	179.69	179.42	193.98	190.44	-	4.95	4.97	5.30	5.29	-
614	Personal credit institutions	182.94	186.07	211.86	207.20	-	5.11	5.14	5.68	5.60	-
63	INSURANCE CARRIERS	240.75	244.02	266.70	266.35	-	6.42	6.49	7.15	7.16	-
631	Life insurance	252.21	255.91	284.26	283.87	-	6.69	6.77	7.56	7.59	-
632	Medical service and health insurance	229.14	231.19	247.78	249.66	-	6.03	6.10	6.59	6.57	-
633	Fire, marine, and casualty insurance	233.58	237.07	254.33	254.74	-	6.33	6.39	6.93	6.96	-

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				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	39.4	39.6	39.6	39.1	-	-	-	-	-	
506	Electrical goods	38.9	39.1	38.8	38.8	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment	38.5	38.6	39.1	38.6	-	-	-	-	-	
508	Machinery, equipment, and supplies	39.3	39.5	39.5	39.1	-	-	-	-	-	
509	Miscellaneous durable goods	38.2	38.5	38.7	38.3	-	-	-	-	-	
51	WHOLESALE TRADE-NONDURABLE GOODS	37.9	38.1	38.0	38.1	-	-	-	-	-	
511	Paper and paper products	36.5	36.4	37.0	36.8	-	-	-	-	-	
512	Drugs, proprietaries, and sundries	37.6	37.4	37.2	37.3	-	-	-	-	-	
513	Apparel, piece goods, and notions	37.0	37.3	37.2	37.1	-	-	-	-	-	
514	Groceries and related products	37.8	37.8	38.2	38.4	-	-	-	-	-	
516	Chemicals and allied products	39.5	39.6	38.7	39.0	-	-	-	-	-	
517	Petroleum and petroleum products	39.5	39.9	39.7	40.0	-	-	-	-	-	
518	Beer, wine, and distilled beverages	36.9	37.0	37.0	36.9	-	-	-	-	-	
519	Miscellaneous nondurable goods	38.3	38.8	38.4	38.1	-	-	-	-	-	
52-59	RETAIL TRADE	30.2	30.0	30.9	30.2	29.8	-	-	-	-	
52	BUILDING MATERIALS AND GARDEN SUPPLIES	37.2	37.0	37.5	37.0	-	-	-	-	-	
521	Lumber and other building materials	39.0	39.0	39.2	38.5	-	-	-	-	-	
525	Hardware stores	33.8	33.6	34.7	34.5	-	-	-	-	-	
53	GENERAL MERCHANDISE STORES	29.5	29.3	29.9	30.0	-	-	-	-	-	
531	Department stores	29.5	29.3	29.8	30.2	-	-	-	-	-	
533	Variety stores	29.5	29.2	29.6	28.8	-	-	-	-	-	
539	Misc. general merchandise stores	29.4	29.6	30.9	30.0	-	-	-	-	-	
54	FOOD STORES	31.4	30.9	31.8	31.5	-	-	-	-	-	
541	Grocery stores	31.7	31.1	32.0	31.8	-	-	-	-	-	
546	Retail bakeries	29.0	29.1	29.6	28.6	-	-	-	-	-	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	37.5	37.7	38.0	37.3	-	-	-	-	-	
551, 2	New and used car dealers	38.1	38.5	38.5	38.0	-	-	-	-	-	
553	Auto and home supply stores	40.7	40.5	40.7	39.9	-	-	-	-	-	
554	Gasoline service stations	35.1	35.6	36.2	35.2	-	-	-	-	-	
56	APPAREL AND ACCESSORY STORES	28.4	28.2	29.6	28.8	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	31.8	31.7	32.5	31.5	-	-	-	-	-	
562	Women's ready-to-wear stores	27.0	26.8	28.3	27.6	-	-	-	-	-	
565	Family clothing stores	27.6	27.2	29.2	28.2	-	-	-	-	-	
566	Shoe stores	28.8	28.7	29.6	28.9	-	-	-	-	-	
57	FURNITURE AND HOME FURNISHINGS STORES	34.3	34.6	35.2	34.8	-	-	-	-	-	
571	Furniture and home furnishings stores	34.4	34.9	35.0	34.5	-	-	-	-	-	
572	Household appliance stores	35.1	35.6	35.6	35.6	-	-	-	-	-	
573	Radio, television, and music stores	33.7	33.2	35.4	35.2	-	-	-	-	-	
58	EATING AND DRINKING PLACES	26.2	26.0	27.3	26.1	-	-	-	-	-	
59	MISCELLANEOUS RETAIL	31.1	31.2	31.9	31.0	-	-	-	-	-	
591	Drug stores and proprietary stores	29.0	29.2	29.9	29.1	-	-	-	-	-	
594	Miscellaneous shopping goods stores	30.0	29.9	31.6	30.0	-	-	-	-	-	
596	Nonstore retailers	33.5	33.4	33.7	33.3	-	-	-	-	-	
598	Fuel and ice dealers	38.2	38.9	38.0	37.9	-	-	-	-	-	
599	Retail stores, nec	33.1	33.0	32.6	32.3	-	-	-	-	-	
	FINANCE, INSURANCE, AND REAL ESTATE	36.1	36.3	36.3	36.0	36.2	-	-	-	-	
60	BANKING	36.1	36.5	36.7	36.2	-	-	-	-	-	
602	Commercial and stock savings banks	36.1	36.5	36.8	36.2	-	-	-	-	-	
61	CREDIT AGENCIES OTHER THAN BANKS	36.4	36.5	37.0	36.6	-	-	-	-	-	
612	Savings and loan associations	36.3	36.1	36.6	36.0	-	-	-	-	-	
614	Personal credit institutions	35.8	36.2	37.3	37.0	-	-	-	-	-	
63	INSURANCE CARRIERS	37.5	37.6	37.3	37.2	-	-	-	-	-	
631	Life insurance	37.7	37.8	37.6	37.4	-	-	-	-	-	
632	Medical service and health insurance	38.0	37.9	37.6	38.0	-	-	-	-	-	
633	Fire, marine, and casualty insurance	36.9	37.1	36.7	36.6	-	-	-	-	-	

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				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	SERVICES	\$193.32	\$195.60	\$210.89	\$210.60	\$212.88	\$5.93	\$6.00	\$6.41	\$6.50	\$6.55
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	137.10	138.93	149.31	148.35	-	4.51	4.57	4.71	4.88	
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	151.76	155.16	162.32	165.66	-	4.53	4.55	4.86	4.96	-
723	Beauty shops	129.17	129.33	141.34	139.00	-	4.32	4.34	4.68	4.68	-
	BUSINESS SERVICES										
73	Advertising	199.47	200.08	216.81	213.49	-	6.10	6.10	6.59	6.63	-
731	Services to buildings	288.10	293.66	321.73	309.76	-	8.07	8.18	9.14	8.80	-
734	Computer and data processing services	142.78	144.67	147.15	147.38	-	5.23	5.28	5.43	5.52	-
737	Automotive repair shops	266.08	266.09	304.56	298.89	-	7.31	7.29	8.10	8.10	-
	AUTO REPAIR, SERVICES, AND GARAGES										
75	Automotive repair shops	232.85	231.95	250.25	247.49	-	6.16	6.12	6.50	6.53	-
753	Miscellaneous repair services	257.13	256.23	276.01	272.69	-	6.61	6.57	6.97	7.01	-
76	Miscellaneous repair services	291.40	289.17	302.22	302.64	-	7.09	7.14	7.69	7.78	-
	MOTION PICTURES										
78	Motion picture production and services	169.83	195.45	196.10	203.67	-	6.66	7.46	7.40	8.05	-
781	Motion picture production and services	379.66	415.91	440.81	455.34	-	9.71	10.61	11.42	12.11	-
79	Amusement and recreation services	165.60	171.99	184.83	189.41	-	5.73	5.85	5.74	6.19	-
	HEALTH SERVICES										
80	Offices of physicians	190.49	191.88	211.53	211.24	-	5.79	5.85	6.41	6.46	-
801	Offices of dentists	194.03	198.44	212.20	212.53	-	5.97	6.05	6.59	6.58	-
802	Offices of dentists	162.73	167.02	183.74	179.07	-	5.73	5.84	6.38	6.35	-
805	Nursing and personal care facilities	131.13	129.86	142.56	144.75	-	4.23	4.23	4.54	4.61	-
806	Hospitals	211.42	213.18	237.36	236.60	-	6.20	6.27	6.92	7.00	-
81	Legal services	254.39	255.47	283.37	277.70	-	7.46	7.47	8.31	8.12	-
	MISCELLANEOUS SERVICES										
89	Engineering and architectural services	331.58	337.04	363.47	359.86	-	8.68	8.80	9.54	9.52	-
891	Accounting, auditing, and bookkeeping	363.87	369.33	396.47	392.83	-	9.33	9.47	10.14	10.23	-
893	Accounting, auditing, and bookkeeping	277.51	277.86	305.62	301.82	-	7.42	7.39	8.26	8.07	-

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

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

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

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

⁵ Money payments only; tips, not included.

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

- Data not available.

p = preliminary.

NOTE: Data from April 1980 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustment" in the Explanatory notes of this publication.

* Hours and earnings data for Railroad equipment (SIC 374) have been temporarily discontinued because of a reporting problem in the sample panel. Publication of these estimates will resume as soon as the problem can be corrected. Revised data will be issued when publication resumes.

**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				
		Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
-	SERVICES	32.6	32.6	32.9	32.4	32.5	-	-	-	-	-
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts	30.4	30.4	31.7	30.4	-	-	-	-	-	-
721	PERSONAL SERVICES: Laundry, cleaning, and garment services	33.5	34.1	33.4	33.4	-	-	-	-	-	
723	Beauty shops	29.9	29.8	30.2	29.7	-	-	-	-	-	
73	BUSINESS SERVICES	32.7	32.8	32.9	32.2	-	-	-	-	-	
731	Advertising	35.7	35.9	35.2	35.2	-	-	-	-	-	
734	Services to buildings	27.3	27.4	27.1	26.7	-	-	-	-	-	
737	Computer and data processing services	36.4	36.5	37.6	36.9	-	-	-	-	-	
75	AUTO REPAIR, SERVICES, AND GARAGES	37.8	37.9	38.5	37.9	-	-	-	-	-	
753	Automotive repair shops	38.9	39.0	39.6	38.9	-	-	-	-	-	
76	MISCELLANEOUS REPAIR SERVICES	41.1	40.5	39.3	38.9	-	-	-	-	-	
78	MOTION PICTURES	25.5	26.2	26.5	25.3	-	-	-	-	-	
781	Motion picture production and services	39.1	39.2	38.6	37.6	-	-	-	-	-	
79	AMUSEMENT AND RECREATION SERVICES	28.9	29.4	32.2	30.6	-	-	-	-	-	
80	HEALTH SERVICES	32.9	32.8	33.0	32.7	-	-	-	-	-	
801	Offices of physicians	32.5	32.8	32.2	32.3	-	-	-	-	-	
802	Offices of dentists	28.4	28.6	28.8	28.2	-	-	-	-	-	
805	Nursing and personal care facilities	31.0	30.7	31.4	31.4	-	-	-	-	-	
806	Hospitals	34.1	34.0	34.3	33.8	-	-	-	-	-	
81	LEGAL SERVICES	34.1	34.2	34.1	34.2	-	-	-	-	-	
89	MISCELLANEOUS SERVICES	38.2	38.3	38.1	37.8	-	-	-	-	-	
891	Engineering and architectural services	39.0	39.0	39.1	38.4	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	37.4	37.6	37.0	37.4	-	-	-	-	-	

ESTABLISHMENT DATA HOURS AND EARNINGS

C-3. Average hourly earnings excluding overtime of production workers on manufacturing payrolls by industry

Major industry group	Average hourly earnings excluding overtime ¹				
	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
MANUFACTURING	\$7.16	\$7.23	\$7.74	\$7.86	\$7.86
DURABLE GOODS	7.64	7.73	8.27	8.39	8.41
Lumber and wood products	6.51	6.47	6.88	6.95	-
Furniture and fixtures	5.46	5.47	5.83	5.87	-
Stone, clay, and glass products	7.32	7.37	8.02	8.14	-
Primary metal industries	9.64	9.77	10.58	10.81	-
Fabricated metal products	7.37	7.43	7.98	8.06	-
Machinery, except electrical	7.89	7.99	8.52	8.66	-
Electric and electronic equipment	6.92	6.99	7.54	7.58	-
Transportation equipment	9.17	9.33	9.90	10.04	-
Instruments and related products	6.71	6.75	7.36	7.38	-
Miscellaneous manufacturing industries	5.39	5.42	5.83	5.90	-
NONDURABLE GOODS	6.46	6.50	6.97	7.09	7.07
Food and kindred products	6.58	6.62	7.14	7.18	-
Tobacco manufactures	7.35	7.44	8.36	8.44	-
Textile mill products	5.06	5.07	5.44	5.49	-
Apparel and other textile products	4.62	4.66	4.89	4.98	-
Paper and allied products	7.64	7.68	8.24	8.40	-
Printing and publishing	7.45	7.48	7.99	8.09	-
Chemicals and allied products	8.16	8.21	8.84	8.98	-
Petroleum and coal products	9.88	9.90	10.84	10.99	-
Rubber and misc. plastics products	6.47	6.54	7.05	7.12	-
Leather and leather products	4.53	4.56	4.87	4.98	-

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

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.

P=preliminary.

C-4. Gross and spendable average weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division, in current and constant (1977) dollars

Industry	Gross average weekly earnings			Spendable average weekly earnings ²					
	Sept. 1980	Aug. 1981	Sept. 1981P	Worker with no dependents			Married worker with 3 dependents		
				Sept. 1980	Aug. 1981	Sept. 1981P	Sept. 1980	Aug. 1981	Sept. 1981P
TOTAL PRIVATE:									
Current dollars	\$239.69	\$259.88	\$258.65	\$192.03	\$204.79	\$203.93	\$209.88	\$223.85	\$222.92
Constant (1977) dollars	172.69	170.64	168.17	138.35	134.46	132.59	151.21	146.98	144.94
MINING:									
Current dollars	404.99	447.62	450.70	299.45	322.64	324.47	331.72	359.17	361.31
Constant (1977) dollars	291.78	293.91	293.04	215.74	211.85	210.97	238.99	235.83	234.92
CONSTRUCTION:									
Current dollars	386.84	405.45	393.06	288.58	297.61	290.26	319.04	329.93	321.34
Constant (1977) dollars	278.70	266.22	255.57	207.91	195.41	188.73	229.86	216.63	208.93
MANUFACTURING:									
Current dollars	295.32	319.20	321.53	230.33	244.42	245.90	252.09	268.15	269.84
Constant (1977) dollars	212.77	209.59	209.06	165.94	160.49	159.88	181.62	176.07	175.45
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	358.09	390.66	390.22	270.92	288.84	288.58	298.15	319.67	319.37
Constant (1977) dollars	257.99	256.51	253.72	195.19	189.65	187.63	214.81	209.89	207.65
WHOLESALE AND RETAIL TRADE:									
Current dollars	179.03	194.83	194.17	148.13	158.71	158.23	164.57	174.28	173.77
Constant (1977) dollars	128.98	127.93	126.25	106.72	104.21	102.88	118.57	114.43	112.98
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	211.91	231.23	228.96	172.17	184.92	183.34	188.59	202.26	200.55
Constant (1977) dollars	152.67	151.83	148.87	124.04	121.42	119.21	135.87	132.80	130.40
SERVICES:									
Current dollars	193.32	210.89	210.60	158.62	170.33	170.12	174.12	186.70	186.48
Constant (1977) dollars	139.28	138.47	136.93	114.28	111.84	110.61	125.45	122.59	121.25

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

² Spendable earnings are calculated by taking the average weekly pay for all production or nonsupervisory jobs, both full-time and part-time, and then deducting social security and Federal income taxes applicable to a single worker or to a married worker with three dependents who earned

this amount (see Explanatory Notes for the establishment data in the back of this publication). A technical note on the calculation and uses of the spendable earnings series is available on request.

P=preliminary.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

C-5. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division and major manufacturing group

(1977=100)

Industry division and group	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	Hours				
TOTAL PRIVATE	108.2	108.4	111.0	109.6	109.4
GOODS-PRODUCING	103.8	103.9	104.6	103.5	102.8
MINING	124.0	124.7	141.8	140.5	141.6
CONSTRUCTION	126.0	126.0	121.9	114.6	118.2
MANUFACTURING	98.5	98.7	99.4	99.6	97.9
DURABLE GOODS	97.3	98.2	98.2	98.5	97.3
Lumber and wood products	92.9	92.2	93.1	89.1	86.0
Furniture and fixtures	95.6	97.2	100.4	98.6	98.4
Stone, clay, and glass products	96.2	96.4	96.4	94.9	93.2
Primary metal industries	87.2	88.5	92.5	93.6	89.3
Fabricated metal products	95.9	96.8	96.3	96.0	95.3
Machinery, except electrical	108.4	107.9	109.1	109.9	109.7
Electric and electronic equipment	104.1	105.2	107.7	108.3	108.0
Transportation equipment	87.5	90.6	83.0	85.6	84.3
Instruments and related products	110.0	110.8	112.2	112.4	111.8
Miscellaneous manufacturing industries	94.6	93.8	93.8	94.7	96.1
NONDURABLE GOODS	100.3	99.5	101.3	101.3	98.9
Food and kindred products	111.6	105.1	106.6	106.8	99.6
Tobacco manufactures	105.3	111.3	112.3	114.4	111.3
Textile mill products	91.2	91.5	91.7	90.0	89.1
Apparel and other textile products	95.5	96.0	98.2	96.6	96.6
Paper and allied products	98.8	98.7	100.9	103.3	99.2
Printing and publishing	107.0	106.9	109.0	109.7	109.1
Chemicals and allied products	99.2	99.4	101.4	103.8	100.3
Petroleum and coal products	104.8	105.3	103.4	104.0	104.7
Rubber and misc. plastics products	97.1	99.5	103.1	102.7	102.1
Leather and leather products	88.7	89.0	92.6	90.0	91.5
SERVICE-PRODUCING	110.6	110.9	114.6	113.0	113.1
TRANSPORTATION AND PUBLIC UTILITIES	106.9	107.2	105.9	105.9	106.0
WHOLESALE AND RETAIL TRADE	106.3	106.4	109.7	108.3	107.8
WHOLESALE TRADE	110.5	111.4	112.7	111.6	112.1
RETAIL TRADE	104.8	104.5	108.6	107.1	106.1
FINANCE, INSURANCE, AND REAL ESTATE	114.8	115.7	120.3	117.5	117.8
SERVICES	115.9	116.2	122.0	119.9	120.6

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

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ESTABLISHMENT DATA HOURS AND EARNINGS

C-5. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers' on private nonagricultural payrolls by industry division and major manufacturing group—Continued

(1977=100)

Industry division and group	Sept. 1980	Oct. 1980	Aug. 1981	Sept. 1981P	Oct. 1981P
	Payrolls				
TOTAL PRIVATE	139.9	141.6	154.4	154.4	154.4
GOODS-PRODUCING	136.5	137.9	148.2	148.4	147.7
MINING	166.3	168.2	207.3	208.2	208.8
CONSTRUCTION	158.2	159.2	163.5	155.7	161.5
MANUFACTURING	128.8	130.3	140.5	142.9	140.4
DURABLE GOODS	127.1	129.7	138.8	141.1	139.6
Lumber and wood products	123.4	121.7	130.2	125.2	121.4
Furniture and fixtures	123.1	125.3	138.2	136.3	137.7
Stone, clay, and glass products	127.2	128.4	139.5	139.3	136.4
Primary metal industries	117.3	120.7	137.2	142.2	133.4
Fabricated metal products	123.9	126.1	134.7	135.4	135.0
Machinery, except electrical	142.3	143.0	154.6	157.8	158.9
Electric and electronic equipment	137.5	140.2	155.1	156.6	155.8
Transportation equipment	114.6	121.2	117.2	122.2	122.1
Instruments and related products	143.6	145.3	160.3	161.6	160.4
Miscellaneous manufacturing industries	119.8	119.6	128.5	131.7	133.6
NONDURABLE GOODS	131.9	131.3	143.5	146.1	141.9
Food and kindred products	144.0	135.9	148.6	150.4	140.4
Tobacco manufactures	143.0	154.4	174.5	179.8	174.3
Textile mill products	120.1	121.0	130.1	128.3	128.0
Apparel and other textile products	123.7	125.3	135.0	134.7	134.5
Paper and allied products	133.5	133.9	146.8	154.6	145.3
Printing and publishing	135.1	135.1	147.2	150.2	149.6
Chemicals and allied products	130.6	131.7	144.9	151.3	145.3
Petroleum and coal products	138.3	139.6	149.3	152.4	151.7
Rubber and misc. plastics products	126.1	130.6	146.0	146.9	146.7
Leather and leather products	113.6	114.8	127.6	126.5	128.6
SERVICE-PRODUCING	142.4	144.2	158.8	158.7	159.1
TRANSPORTATION AND PUBLIC UTILITIES	137.9	140.9	149.9	151.1	151.8
WHOLESALE AND RETAIL TRADE	138.2	139.1	152.4	152.8	151.3
WHOLESALE TRADE	144.8	146.5	160.2	159.6	160.9
RETAIL TRADE	134.7	135.2	148.3	149.1	146.1
FINANCE, INSURANCE, AND REAL ESTATE	148.4	150.7	168.7	164.4	166.1
SERVICES	147.7	149.8	168.0	167.7	169.9

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED HOURS**

**C-6. Average weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls
by industry division and major manufacturing group, seasonally adjusted**

Industry	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. p	Oct. p
TOTAL PRIVATE	35.3	35.3	35.3	35.3	35.2	35.3	35.4	35.3	35.2	35.3	35.2	34.9	34.9
MINING	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
CONSTRUCTION	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MANUFACTURING	39.7	39.8	39.9	40.1	39.8	39.9	40.2	40.3	40.1	40.0	40.0	39.3	39.4
<i>Overtime hours</i>	2.8	3.0	3.0	3.0	2.8	2.8	2.9	3.2	3.0	3.0	3.0	2.6	2.7
DURABLE GOODS	40.1	40.4	40.4	40.6	40.1	40.4	40.8	40.8	40.5	40.5	40.5	39.6	39.7
<i>Overtime hours</i>	2.8	3.0	3.1	3.0	2.8	2.8	3.0	3.2	3.0	3.0	3.0	2.5	2.6
Lumber and wood products	38.6	39.1	39.3	39.8	39.1	39.1	39.6	39.8	39.0	38.8	38.6	37.5	37.2
Furniture and fixtures	38.0	38.0	38.4	38.5	38.6	38.6	38.8	39.0	38.9	38.5	38.6	37.4	37.4
Stone, clay, and glass products	40.8	40.9	41.0	41.3	40.6	40.7	41.2	41.0	40.8	40.9	40.8	40.3	40.1
Primary metal industries	40.1	40.8	41.2	41.1	40.7	41.0	41.2	41.0	40.8	40.5	40.7	40.4	39.8
Fabricated metal products	40.4	40.5	40.4	40.5	40.2	40.4	40.9	40.9	40.7	40.5	40.5	39.4	39.9
Machinery, except electrical	40.8	41.0	40.9	41.1	40.8	40.9	41.3	41.4	41.1	41.1	41.2	40.2	40.5
Electric and electronic equipment	39.8	39.9	40.0	40.1	39.6	40.0	40.2	40.4	40.2	40.5	40.4	39.5	39.7
Transportation equipment	40.7	41.2	41.0	41.3	40.5	40.9	42.0	41.8	41.4	41.2	41.3	39.8	39.8
Instruments and related products	40.3	40.4	40.4	40.6	40.5	40.5	40.1	40.4	40.4	40.5	40.8	40.5	40.4
Miscellaneous manufacturing ind	38.6	38.6	38.9	38.8	38.6	38.7	38.9	39.2	39.1	39.2	39.1	38.5	38.9
NONDURABLE GOODS	39.0	39.1	39.2	39.5	39.2	39.2	39.3	39.6	39.4	39.3	39.3	38.9	38.9
<i>Overtime hours</i>	2.8	2.9	2.9	3.0	2.9	2.8	2.9	3.1	3.0	2.9	2.9	2.8	2.8
Food and kindred products	39.6	39.8	39.7	40.3	39.9	39.7	40.1	40.0	39.8	39.4	39.4	39.2	39.3
Tobacco manufactures	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Textile mill products	39.8	39.9	40.1	40.0	40.0	39.9	39.8	40.5	40.2	40.4	40.3	39.0	39.3
Apparel and other textile products	35.4	35.2	35.5	36.1	35.6	35.7	35.5	36.0	36.1	35.9	36.1	35.2	35.6
Paper and allied products	42.2	42.4	42.8	42.6	42.4	42.4	42.6	42.8	42.7	42.7	42.7	43.2	42.3
Printing and publishing	37.1	36.8	37.4	37.5	37.3	37.1	37.3	37.6	37.4	37.3	37.3	37.2	37.1
Chemicals and allied products	41.5	41.6	41.6	41.6	41.6	41.5	41.5	41.7	41.7	41.8	41.7	42.4	41.3
Petroleum and coal products	42.8	42.9	43.2	43.8	43.8	43.5	44.1	43.8	43.4	43.1	42.8	42.9	42.6
Rubber and misc. plastics products	40.5	40.8	40.8	40.9	40.3	40.5	40.7	41.3	41.0	40.5	40.6	39.6	40.2
Leather and leather products	36.7	36.3	36.6	36.8	37.0	37.1	36.6	37.1	37.4	36.5	36.9	36.2	36.9
TRANSPORTATION AND PUBLIC UTILITIES	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
WHOLESALE AND RETAIL TRADE	32.1	32.2	32.1	32.2	32.2	32.2	32.3	32.1	32.1	32.2	32.1	32.1	31.9
WHOLESALE TRADE	38.5	38.5	38.6	38.8	38.6	38.6	38.6	38.5	38.5	38.7	38.6	38.5	38.3
RETAIL TRADE	30.1	30.2	30.0	30.1	30.2	30.2	30.3	30.1	30.1	30.1	30.1	30.1	29.9
FINANCE, INSURANCE, AND REAL ESTATE	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
SERVICES	32.6	32.7	32.7	32.7	32.8	32.8	32.8	32.7	32.5	32.5	32.4	32.4	32.5

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

p=preliminary.

² This series is not published seasonally adjusted since 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

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

(1977=100)

Industry division and group	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. ^p	Oct. ^p
TOTAL PRIVATE	107.4	107.7	107.9	108.2	107.9	108.4	108.9	108.9	108.7	109.4	109.2	108.6	108.3
GOODS-PRODUCING	101.7	102.0	102.3	102.4	100.9	102.4	102.8	103.1	102.6	103.5	103.4	101.1	100.2
MINING	124.0	126.6	130.1	130.1	128.6	128.2	112.0	113.3	128.0	136.5	139.8	138.4	139.6
CONSTRUCTION	117.7	114.4	115.6	113.9	109.1	116.6	115.8	112.9	109.3	110.9	110.0	105.0	108.1
MANUFACTURING	97.6	98.4	98.5	98.9	98.0	98.4	99.9	100.7	100.2	100.5	100.4	98.6	96.8
DURABLE GOODS	97.3	98.6	98.5	99.0	97.8	98.6	100.7	101.1	100.6	100.9	100.9	98.4	96.5
Lumber and wood products	89.1	90.6	91.7	93.2	91.7	91.9	94.5	96.1	92.9	92.5	89.8	86.0	83.0
Furniture and fixtures	95.1	95.1	96.4	96.6	97.4	97.4	100.5	102.6	102.6	102.3	102.3	98.1	96.4
Stone, clay, and glass products	93.9	94.5	94.1	94.6	92.8	92.7	94.8	94.5	93.9	94.5	94.6	92.5	90.4
Primary metal industries	89.3	92.6	94.6	94.6	94.0	94.7	95.7	94.8	94.6	93.5	94.4	93.1	90.0
Fabricated metal products	95.9	96.4	96.1	96.2	95.3	96.2	98.2	98.7	98.4	98.8	98.4	95.5	94.5
Machinery, except electrical	109.1	109.3	109.3	109.8	108.7	109.1	110.5	111.8	111.5	111.7	112.9	110.6	111.1
Electric and electronic equipment	104.6	105.3	106.1	106.5	105.3	107.0	108.4	109.6	109.2	110.9	110.5	108.1	107.6
Transportation equipment	88.2	91.3	88.3	89.1	86.8	88.7	93.3	92.2	91.9	91.1	91.6	88.5	82.1
Instruments and related products	111.4	111.7	112.0	112.3	111.2	111.5	110.9	112.0	111.7	113.3	113.9	113.3	112.5
Miscellaneous manufacturing ind	89.5	90.1	90.8	91.2	90.7	90.6	92.0	92.4	92.2	95.4	92.8	91.0	92.0
NONDURABLE GOODS	98.0	98.0	98.4	98.9	98.3	98.1	98.7	100.1	99.5	99.8	99.5	98.7	97.4
Food and kindred products	100.4	100.3	99.7	100.9	100.4	99.0	100.5	100.8	98.1	98.4	96.8	96.3	95.2
Tobacco manufactures	100.1	102.2	97.1	98.4	98.1	96.5	96.5	98.4	98.3	103.2	110.1	101.2	97.6
Textile mill products	91.3	91.3	91.6	91.2	90.9	90.7	90.7	92.6	92.1	93.7	92.7	90.0	88.8
Apparel and other textile products	94.6	93.9	94.4	95.4	94.0	94.3	94.1	96.0	96.8	97.6	97.2	95.4	95.1
Paper and allied products	98.8	99.4	100.4	99.9	99.2	99.1	99.9	100.8	100.7	100.9	101.1	103.3	99.2
Printing and publishing	107.0	106.3	108.5	108.5	108.2	107.8	108.5	109.5	108.8	108.8	109.3	109.4	109.0
Chemicals and allied products	99.9	100.5	100.6	100.8	101.1	101.0	101.2	102.0	102.5	102.4	102.2	104.4	100.9
Petroleum and coal products	102.2	102.5	102.4	104.6	104.6	103.9	105.3	105.4	102.9	102.2	100.7	100.2	101.0
Rubber and misc. plastics products	98.3	99.4	100.0	100.4	99.3	100.1	102.2	105.3	104.7	103.6	105.0	102.0	100.9
Leather and leather products	88.8	87.8	88.1	88.5	89.5	89.3	88.5	90.6	91.4	91.4	91.5	89.8	91.1
SERVICE-PRODUCING	110.6	110.9	111.0	111.3	111.7	111.8	112.3	112.0	112.1	112.6	112.5	112.7	112.7
TRANSPORTATION AND PUBLIC UTILITIES	106.3	105.7	106.6	105.0	105.4	105.1	105.4	104.9	106.2	106.0	105.2	105.2	104.6
WHOLESALE AND RETAIL TRADE	106.1	106.3	105.9	106.6	106.8	106.9	107.2	106.9	107.0	107.8	107.9	108.0	107.4
WHOLESALE TRADE	110.6	110.5	110.9	111.5	111.1	111.1	111.4	111.4	111.3	112.3	112.1	111.7	111.0
RETAIL TRADE	104.3	104.7	103.9	104.7	105.2	105.4	105.6	105.2	105.3	106.0	106.2	106.5	106.0
FINANCE, INSURANCE, AND REAL ESTATE	115.9	116.2	116.5	117.3	117.4	117.5	117.8	117.4	117.6	118.1	118.7	118.1	118.2
SERVICES	116.0	116.9	117.3	117.7	118.2	118.4	119.3	119.2	118.7	119.3	119.0	119.7	120.5

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

^p preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

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

Industry	1980			1981									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. P	Oct. P
Hourly Earnings Index² (1977=100)													
TOTAL PRIVATE (in current dollars)	130.6	132.1	132.6	133.8	135.0	135.8	136.7	137.7	138.4	139.0	140.7	141.3	141.6
MINING ³	137.5	139.2	139.8	142.1	143.2	144.0	145.7	145.6	147.2	148.9	149.4	151.5	150.4
CONSTRUCTION	124.4	125.2	126.2	127.6	128.0	128.6	129.0	129.4	130.4	131.8	132.5	132.8	133.9
MANUFACTURING	133.5	134.6	135.4	136.5	137.5	138.5	139.9	140.7	141.6	142.5	143.6	144.8	145.2
TRANSPORTATION AND PUBLIC UTILITIES	130.9	132.6	132.8	133.7	135.4	136.1	137.3	138.9	139.8	139.3	141.8	141.8	142.5
WHOLESALE AND RETAIL TRADE	130.8	132.3	132.4	133.7	135.0	135.8	136.4	137.4	137.8	138.4	140.0	141.0	140.5
FINANCE, INSURANCE, AND REAL ESTATE	129.9	132.4	131.9	133.2	135.0	136.0	135.4	136.8	137.1	137.4	140.4	139.9	140.8
SERVICES	128.5	130.5	131.1	132.0	133.2	134.0	134.8	136.0	136.6	136.9	139.4	139.7	139.9
TOTAL PRIVATE (in 1977 dollars) ⁴	93.2	93.3	92.7	92.8	92.7	92.8	93.0	93.1	92.9	92.2	92.7	92.0	-
Average hourly earnings													
TOTAL PRIVATE	\$6.83	\$6.90	\$6.94	\$6.99	\$7.04	\$7.09	\$7.14	\$7.18	\$7.23	\$7.26	\$7.34	\$7.36	\$7.38
MINING	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
CONSTRUCTION	10.15	10.21	10.30	10.39	10.44	10.49	10.52	10.57	10.69	10.77	10.85	10.87	10.98
MANUFACTURING	7.49	7.59	7.63	7.69	7.74	7.80	7.90	7.95	7.99	8.02	8.08	8.13	8.14
TRANSPORTATION AND PUBLIC UTILITIES	9.12	9.20	9.26	9.33	9.44	9.48	9.57	9.67	9.74	9.71	9.88	9.89	9.94
WHOLESALE AND RETAIL TRADE	5.61	5.66	5.69	5.72	5.78	5.81	5.84	5.89	5.91	5.93	5.99	6.04	6.02
FINANCE, INSURANCE, AND REAL ESTATE	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
SERVICES	6.00	6.07	6.11	6.15	6.20	6.24	6.27	6.32	6.38	6.42	6.51	6.51	6.56
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	241.10	243.57	244.98	246.75	247.81	250.28	252.76	253.45	254.50	256.28	258.37	256.86	257.56
1977 dollars ⁴	172.09	171.89	171.19	171.12	170.20	170.96	172.06	171.37	170.92	170.06	170.20	167.23	-
Real spendable earnings (married worker with 3 dependents, 1977 dollars) ^{4, 6}	150.57	150.20	149.48	148.38	147.49	147.96	148.73	148.07	147.62	146.74	146.71	144.25	-

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

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

³ The 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.

⁴ The deflator for these series is derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

⁵ See footnote 2, table C-6.

⁶ See footnote 2, table C-4.

p=preliminary.

C-9. Hours of wage and salary workers¹ in nonagricultural establishments by industry division

Industry division	Millions of hours (Annual rate) ²			Percent change		
	AUGUST r1981	SEPTEMBER r1981	OCTOBER p1981	Oct. 1980 to Oct. 1981	Aug. 1981 to Sept. 1981	Sept. 1981 to Oct. 1981
TOTAL	171,289	167,760	170,177	0.3	-2.1	1.4
PRIVATE SECTOR	140,119	139,660	139,750	1.3	-0.3	0.1
MINING	2,608	2,573	2,638	14.5	-1.3	2.5
CONSTRUCTION	8,054	7,770	7,998	-5.0	-3.5	2.9
MANUFACTURING	42,296	41,833	41,537	0.03	-1.1	-0.7
DURABLE GOODS	25,703	25,325	25,181	0.2	-1.5	-0.6
NONDURABLE GOODS	16,593	16,508	16,356	-0.2	-0.5	-0.9
TRANSPORTATION AND PUBLIC UTILITIES	10,520	10,548	10,584	-0.4	0.3	0.3
WHOLESALE AND RETAIL TRADE	34,921	35,061	34,996	1.5	0.4	-0.2
FINANCE, INSURANCE, AND REAL ESTATE	10,105	10,064	10,069	2.0	-0.4	0.0
SERVICES	31,613	31,812	31,928	3.8	0.6	0.4
GOVERNMENT	31,170	28,100	30,427	-4.0	-9.8	8.3

¹ Data refer to hours of all employees—production workers, nonsupervisory workers and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods for Surveys and Studies*, BLS Bulletin 1910—Chapter 30, Productivity Measures: Private Economy and Major Sectors.

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

**PRODUCTIVITY
SEASONALLY ADJUSTED**

**C-10. Indexes of output and compensation per hour, unit costs, and prices,
private business sector, seasonally adjusted**

[1977 = 100]

Item	Annual average		Quarterly indexes										
			1979				1980				1981		
	1979	1980	I	II	III	IV	I	II	III	IV	I	II	III
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	99.5	99.3	99.7	99.7	99.4	99.1	99.5	99.1	99.4	99.1	100.3	r101.1	p100.7
Output	107.7	106.8	107.7	107.1	107.7	108.2	108.7	105.4	105.7	107.5	109.5	r109.5	p109.2
Hours	108.2	107.5	108.1	107.4	108.4	109.1	109.2	106.4	106.3	108.4	109.2	r108.3	p108.4
Compensation per hour	119.3	r131.5	115.0	118.1	120.7	123.2	126.4	130.1	133.1	135.9	139.7	143.2	p146.4
Real compensation per hour	99.6	r96.7	100.6	100.3	99.2	98.0	96.7	96.5	96.9	96.0	96.1	96.8	p 96.3
Unit labor costs	119.9	r132.4	115.4	118.5	121.4	124.3	127.0	131.3	133.9	137.0	139.4	r141.6	p145.5
Unit nonlabor payments	110.9	r118.3	109.6	110.4	111.5	112.2	115.2	116.0	119.7	122.7	127.6	r129.3	p131.5
Implicit price deflator	116.9	127.6	113.4	115.8	118.1	120.2	123.0	126.1	129.1	132.2	135.4	r137.5	p140.7
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	99.1	98.8	99.5	99.1	98.9	98.8	98.9	98.2	99.0	99.0	100.0	r100.4	p 99.8
Output	107.7	106.8	107.9	107.1	107.8	108.2	108.5	105.1	105.8	107.7	109.7	r109.4	p108.9
Hours	108.7	108.1	108.4	108.0	109.0	109.4	109.8	107.1	106.9	108.8	109.7	109.0	p109.1
Compensation per hour	119.0	130.8	114.9	117.7	120.2	123.0	126.0	129.4	132.3	135.4	139.1	142.4	p145.6
Real compensation per hour	99.3	96.2	100.4	100.0	98.8	97.8	96.4	96.0	96.3	95.6	95.7	96.3	p 95.7
Unit labor costs	120.0	132.4	115.4	118.7	121.5	124.4	127.4	131.8	133.6	136.8	139.1	r141.9	p145.9
Unit nonlabor payments	108.5	r117.6	107.1	107.7	109.2	110.1	113.9	115.1	119.2	122.0	127.8	r129.3	p131.3
Implicit price deflator	116.2	127.4	112.6	115.1	117.4	119.7	122.9	126.3	128.8	131.9	135.3	r137.5	p141.1
MANUFACTURING:													
Output per hour of all persons	102.0	101.7	101.5	102.3	102.0	102.1	102.0	r100.7	r100.7	r103.2	r104.1	r105.1	p105.5
Output	108.6	103.6	109.3	108.5	108.5	r108.2	108.0	r101.6	r99.9	r105.1	r107.0	r107.9	p107.9
Hours	106.5	101.9	107.7	106.1	106.4	106.0	105.9	100.9	99.2	101.8	102.8	102.6	p102.3
Compensation per hour	118.8	131.6	114.5	118.6	119.8	122.3	125.4	130.0	133.9	137.3	140.9	r144.6	p148.1
Real compensation per hour	99.2	r96.7	100.2	100.7	98.5	97.2	95.9	96.4	97.5	97.0	96.9	r97.8	p 97.3
Unit labor costs	116.5	129.4	112.9	115.9	117.5	119.8	122.9	r129.1	r133.0	r133.0	r135.4	r137.5	p140.3
DURABLE GOODS													
Output per hour of all persons	100.7	99.6	100.7	101.6	100.1	r100.3	r99.9	r98.9	r98.3	101.1	r102.2	r103.7	p103.9
Output	110.2	102.9	111.7	r110.4	109.5	109.1	r108.4	r100.7	r98.1	104.3	r106.4	r107.8	p107.6
Hours	109.3	103.3	110.8	108.6	109.4	108.7	108.5	101.9	99.8	103.1	104.1	104.0	p103.5
Compensation per hour	118.4	r131.6	114.1	118.4	119.3	121.5	125.1	129.9	134.1	137.7	141.4	145.0	p148.7
Real compensation per hour	98.8	96.8	99.8	100.6	98.1	96.6	95.7	96.4	97.6	97.3	97.2	r98.1	p 97.7
Unit labor costs	117.5	r132.1	r113.2	116.6	119.2	121.1	125.3	r131.4	r136.4	r136.2	r138.3	r139.9	p143.0
NONDURABLE GOODS													
Output per hour of all persons	104.0	104.9	r102.7	103.5	105.0	104.9	r105.3	103.5	r104.3	r106.4	r106.9	r107.4	p107.9
Output	106.4	104.8	105.7	105.9	107.0	107.0	r107.4	102.9	r102.6	r106.3	107.8	108.1	p108.5
Hours	102.3	99.9	103.0	102.2	101.9	102.0	101.9	99.4	98.4	99.9	100.9	100.6	p100.5
Compensation per hour	118.8	131.0	114.5	118.2	119.9	122.9	125.0	129.6	133.3	136.0	139.6	143.2	p146.5
Real compensation per hour	99.2	96.3	100.1	100.4	98.6	97.7	95.7	96.2	97.1	96.1	96.0	r96.9	p 96.3
Unit labor costs	114.3	r124.8	111.5	114.1	114.2	117.2	r118.7	r125.3	r127.8	r127.8	130.7	r133.4	p135.8
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	100.4	101.0	100.6	100.7	100.5	99.9	100.2	100.1	101.8	101.8	103.3	r103.9	NA
Output	109.3	108.5	109.5	109.0	109.4	109.3	109.9	106.8	107.7	109.7	112.8	r112.8	NA
Hours	108.8	107.5	108.9	108.3	108.9	109.4	109.6	106.7	105.8	107.8	109.1	r108.6	NA
Compensation per hour	118.7	130.7	114.5	117.6	120.1	122.7	125.7	129.3	132.5	135.5	139.2	142.3	NA
Real compensation per hour	99.1	96.2	100.1	99.9	98.7	97.5	96.2	95.9	96.5	95.7	95.7	96.2	NA
Total unit costs	116.8	129.7	112.2	115.3	118.2	121.3	124.2	129.2	131.1	134.1	136.0	r138.7	NA
Unit labor costs	118.2	129.4	113.8	116.8	119.5	122.8	125.4	129.1	130.2	133.1	134.7	r137.0	NA
Unit nonlabor costs	112.7	130.2	107.8	111.2	114.6	117.2	120.9	129.3	133.8	136.9	139.5	r143.6	NA
Unit profits	99.0	90.2	105.6	100.7	97.5	92.2	95.5	83.4	89.1	92.4	106.8	r102.8	NA
Implicit price deflator	114.8	125.2	111.5	113.7	115.9	118.1	121.0	124.1	126.4	129.5	132.7	r134.7	NA

p=preliminary.
r=revised.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

C-11. Percent changes from preceding quarter and year in productivity, hourly compensation, unit costs, and prices, private business sector, seasonally adjusted at annual rate

Item	Quarterly percent change						Annual percent change					
	I 1980	II 1980	III 1980	IV 1980	I 1981	II 1981	II 1979	III 1979	IV 1979	I 1980	II 1980	III 1980
	to	to	to	to	to	to	to	to	to	to	to	to
	I 1980	II 1980	IV 1980	I 1981	II 1981	II 1981	II 1980	III 1980	IV 1980	I 1981	II 1981	III 1981
PRIVATE BUSINESS SECTOR:												
Output per hour of all persons	-1.8	1.3	-1.1	4.6	r3.5	p-1.9	-0.6	0.0	0.0	0.7	r2.1	pl.3
Output	-11.5	1.1	6.9	7.9	r-0.1	p-1.2	-1.6	-1.9	-0.7	0.8	r3.9	p3.3
Hours	-9.9	-0.2	8.1	3.1	r-3.5	p0.7	-1.0	-1.9	-0.7	0.0	r1.8	p2.0
Compensation per hour	12.3	9.5	8.6	11.8	10.4	p9.3	10.1	10.3	10.3	10.5	10.1	pl0.0
Real compensation per hour	-0.7	1.6	-3.8	0.4	r3.2	p-2.4	-3.8	-2.3	-2.0	-0.7	0.3	p-0.7
Unit labor costs	14.4	8.1	9.8	6.9	r6.6	pl1.4	10.8	10.3	10.3	9.7	r7.8	p8.6
Unit nonlabor payments	2.6	13.7	10.2	17.2	r5.3	p6.8	5.1	7.4	9.3	10.8	r11.5	p9.8
Implicit price deflator	10.5	9.8	9.9	10.0	r6.2	p9.9	9.0	9.4	10.0	10.1	r9.0	p9.0
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	-2.9	3.6	-0.2	4.3	r1.4	p-2.2	-1.0	0.1	0.1	1.1	r2.2	p0.8
Output	-12.1	2.9	7.1	7.9	r-1.1	p-1.9	-1.9	-1.8	-0.5	1.1	r4.1	p2.9
Hours	-9.5	-0.7	7.3	3.5	-2.5	p0.3	-0.9	-1.9	-0.6	0.0	1.9	p2.1
Compensation per hour	11.3	9.0	9.8	11.6	9.6	p9.4	9.9	10.1	10.1	10.4	10.0	pl0.1
Real compensation per hour	-1.6	1.2	-2.7	0.2	2.4	p-2.2	-4.0	-2.5	-2.2	-0.8	0.2	p-0.6
Unit labor costs	14.6	5.3	10.1	7.0	r8.1	pl1.9	11.0	9.9	9.9	9.2	r7.6	p9.3
Unit nonlabor payments	4.2	15.0	9.9	20.3	r3.0	p8.5	6.9	9.1	10.8	12.2	r11.8	pl0.2
Implicit price deflator	11.3	8.2	10.0	11.0	r6.5	pl0.8	9.7	9.6	10.2	10.1	r8.9	p9.6
MANUFACTURING:												
Output per hour of all persons	r-4.9	r0.0	10.4	r3.3	r4.1	pl.4	r-1.6	r-1.3	r1.1	r2.1	r4.4	p4.8
Output	r-21.6	r-6.6	r22.5	r7.5	r3.3	p0.2	r-6.4	r-7.9	r-2.9	r-0.9	r6.2	p8.1
Hours	-17.6	-6.5	11.0	4.0	r-0.7	p-1.3	-4.9	-6.7	-4.0	-2.9	1.7	p3.1
Compensation per hour	15.5	12.7	10.5	11.1	r10.8	pl0.0	9.6	11.7	r12.2	12.4	r11.3	pl0.6
Real compensation per hour	2.1	4.5	-2.2	-0.3	r3.5	p-1.7	-4.3	-1.0	-0.3	1.0	r1.4	p-0.2
Unit labor costs	r21.4	r12.7	r0.1	r7.5	6.4	p8.4	11.3	r13.2	r11.0	r10.2	r6.6	p5.5
DURABLE GOODS												
Output per hour of all persons	r-3.8	r-2.4	r12.0	r4.5	r5.6	pl.1	-2.6	r-1.8	r0.8	r2.4	r4.8	p5.7
Output	r-25.3	r-10.2	r27.8	r8.7	r5.1	p-0.7	-8.7	r-10.5	r-4.4	r-1.8	7.0	p9.7
Hours	-22.4	-8.0	14.0	4.0	r-0.5	p-1.8	-6.2	-8.8	-5.2	-4.1	2.1	p3.7
Compensation per hour	16.5	13.4	11.3	11.1	r10.7	pl0.5	9.7	12.4	13.3	13.0	11.6	pl0.9
Real compensation per hour	2.9	5.2	-1.4	-0.3	r3.5	p-1.3	-4.1	-0.5	0.7	1.6	1.7	p0.1
Unit labor costs	r21.1	r16.2	r-0.7	r6.3	r4.8	p9.2	r12.7	r14.5	r12.4	r10.4	r6.5	p4.9
NONDURABLE GOODS												
Output per hour of all persons	r-6.9	r3.4	r8.3	r1.7	r2.0	pl.9	r-0.1	r-0.6	1.5	r1.5	3.8	p3.4
Output	r-15.7	r-1.0	r15.3	r5.8	r0.8	pl.5	-2.8	r-4.1	-0.6	r0.4	5.0	p5.7
Hours	-9.4	-4.3	6.4	4.1	r-1.1	p-0.4	-2.7	-3.5	-2.1	-1.0	1.2	p2.2
Compensation per hour	15.6	11.9	8.2	11.2	r10.7	p9.3	9.7	11.2	10.6	11.7	10.5	p9.8
Real compensation per hour	2.2	3.8	-4.2	-0.2	r3.5	p-2.4	-4.1	-1.5	-1.7	0.4	r0.7	p-0.9
Unit labor costs	r24.2	r8.2	r-0.1	r9.3	r8.6	p7.2	r9.8	r11.9	9.0	r10.1	6.4	p6.2
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	-0.5	6.7	0.0	6.3	r2.2	NA	-0.5	1.3	1.9	3.1	r3.8	NA
Output	-10.9	3.4	7.9	11.5	r0.1	NA	-2.0	-1.6	0.4	2.6	r5.6	NA
Hours	-10.5	-3.1	7.9	4.8	r-2.0	NA	-1.5	-2.8	-1.5	-0.5	r1.8	NA
Compensation per hour	12.0	10.2	9.4	11.4	r9.3	NA	9.9	10.3	10.4	10.8	10.1	NA
Real compensation per hour	-1.0	2.2	-3.1	0.0	2.1	NA	-3.9	-2.2	1.9	-0.5	0.3	NA
Total unit costs	17.0	6.2	9.4	5.6	r8.4	NA	12.0	11.0	10.5	9.5	r7.4	NA
Unit labor costs	12.6	3.2	9.4	4.8	r7.0	NA	10.5	8.9	8.4	7.4	r6.1	NA
Unit nonlabor costs	30.6	14.7	9.5	7.9	r12.3	NA	16.3	16.8	16.8	15.4	r11.1	NA
Unit profits	-41.9	30.3	15.7	77.9	r-13.9	NA	-17.2	-8.6	0.3	11.8	r23.3	NA
Implicit price deflator	10.5	7.9	9.9	10.4	r6.2	NA	9.1	9.1	9.6	9.7	r8.6	NA

p=preliminary.
r=revised.

GPO 872-678

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-12. 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		
	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P
ALABAMA	\$261.85	\$284.12	\$288.72	40.1	40.3	40.1	\$6.53	\$7.05	\$7.20
Birmingham	293.83	311.59	325.88	39.6	38.9	39.5	7.42	8.01	8.25
Mobile	237.79	372.74	381.78	41.6	41.6	42.0	8.12	8.96	9.09
ALASKA	434.40	486.47	† (*)	40.0	47.6	(*)	10.86	10.22	(*)
ARIZONA	295.14	322.72	325.36	40.1	39.5	39.2	7.36	8.17	8.30
Phoenix	294.67	316.78	318.72	40.2	39.4	39.3	7.33	8.04	8.11
Tucson	281.23	301.34	314.32	37.8	38.0	38.1	7.44	7.93	8.25
ARKANSAS	231.82	252.23	257.44	39.9	40.1	40.1	5.81	6.29	6.42
Fayetteville—Springdale	199.54	213.57	220.41	38.3	37.6	38.6	5.21	5.68	5.71
Fort Smith	230.10	246.91	245.25	39.0	38.7	38.5	5.90	6.38	6.37
Little Rock—North Little Rock	258.84	285.53	293.13	39.7	40.5	40.6	6.52	7.05	7.22
Pine Bluff	314.57	333.20	335.44	41.5	42.5	42.3	7.58	7.84	7.93
CALIFORNIA	314.42	346.66	345.54	39.7	39.8	39.0	7.92	8.71	8.86
Anaheim—Santa Ana—Garden Grove	296.27	329.64	328.25	40.2	40.2	39.5	7.37	8.20	8.31
Bakersfield	337.60	360.00	366.53	40.0	40.0	40.5	8.44	9.00	9.05
Fresno	285.22	305.71	304.04	38.7	38.6	38.1	7.37	7.92	7.98
Los Angeles—Long Beach	298.00	324.39	320.15	40.0	39.9	38.9	7.45	8.13	8.23
Modesto	315.57	351.54	335.60	40.2	40.5	38.9	7.85	8.68	8.73
Oxnard—Simi Valley—Ventura	270.38	295.11	280.48	39.3	39.4	37.1	6.88	7.49	7.56
Riverside—San Bernardino—Ontario	303.00	330.00	326.02	38.5	39.1	38.4	7.87	8.44	8.49
Sacramento	357.70	368.74	362.78	41.4	40.7	38.8	8.64	9.06	9.35
Salinas—Seaside—Monterey	278.23	289.26	310.57	36.9	35.8	38.2	7.54	8.08	8.13
San Diego	298.65	323.75	326.49	39.4	39.1	39.1	7.58	8.28	8.35
San Francisco—Oakland	369.33	417.25	415.67	39.0	39.7	39.4	9.47	10.51	10.55
San Jose	329.94	361.00	361.67	39.8	40.2	39.7	8.29	8.98	9.11
Santa Barbara—Santa Maria—Lompoc	266.64	296.78	297.54	38.2	38.0	38.0	6.98	7.81	7.83
Santa Rosa	287.10	320.62	313.23	39.6	41.0	39.8	7.25	7.82	7.87
Stockton	358.28	368.51	366.33	42.4	40.9	40.3	8.45	9.01	9.09
Vallejo—Fairfield—Napa	348.60	393.79	414.16	40.3	39.3	39.9	8.65	10.02	10.38
COLORADO	303.81	328.78	325.84	39.1	39.9	39.4	7.77	8.24	8.27
Denver—Boulder	302.64	325.12	321.79	39.0	39.6	39.1	7.76	8.21	8.23
CONNECTICUT	297.36	316.77	317.34	41.3	41.3	41.0	7.20	7.67	7.74
Bridgeport	313.12	334.65	339.58	42.2	42.2	42.5	7.42	7.93	7.99
Hartford	321.86	334.14	332.51	41.8	41.1	40.6	7.70	8.12	8.19
New Britain	312.91	323.18	324.90	42.4	41.7	41.6	7.38	7.75	7.81
New Haven—West Haven	287.99	302.76	302.04	41.2	40.1	39.9	6.99	7.55	7.57
Stamford	280.98	296.84	292.98	41.2	41.0	40.3	6.82	7.24	7.27
Waterbury	245.43	272.90	265.93	40.5	41.6	41.4	6.06	6.56	6.52
DELAWARE	309.55	327.24	328.50	41.0	40.4	39.2	7.55	8.10	8.38
Wilmington	356.81	371.84	366.52	40.5	39.1	38.1	8.81	9.51	9.62
DISTRICT OF COLUMBIA:									
Washington SMSA	345.20	352.56	357.90	40.0	38.7	39.2	8.63	9.11	9.13
FLORIDA	251.74	268.66	267.98	41.0	40.4	39.7	6.14	6.65	6.75
Fort Lauderdale—Hollywood	223.97	253.13	244.53	39.5	40.5	39.0	5.67	6.25	6.27
Jacksonville	305.28	313.55	317.66	42.4	42.2	42.1	7.20	7.43	7.55
Lakeland—Winter Haven	301.50	307.45	303.00	44.6	43.0	42.2	6.76	7.15	7.18
Miami	211.53	214.40	216.28	39.1	38.7	38.9	5.41	5.54	5.56
Orlando	269.38	290.91	291.18	41.7	42.1	42.2	6.46	6.91	6.90
Pensacola	306.88	326.04	331.57	40.7	41.8	42.4	7.54	7.80	7.82
Tampa—St. Petersburg	255.64	263.74	260.56	41.5	39.6	39.3	6.16	6.66	6.63
West Palm Beach—Boca Raton	264.37	295.39	288.15	39.4	40.8	40.3	6.71	7.24	7.15
GEORGIA	238.39	257.11	254.78	40.2	40.3	39.5	5.93	6.38	6.45
Atlanta	274.01	295.71	293.61	39.2	39.8	39.2	6.99	7.43	7.49
Savannah	333.32	358.60	365.20	43.8	44.0	44.0	7.61	9.15	8.30
HAWAII	263.15	288.79	292.72	37.7	38.2	37.1	6.98	7.56	7.89
Honolulu	259.56	275.62	290.40	37.4	36.7	36.3	6.94	7.51	8.00
IDAHO	301.32	343.00	337.39	37.2	40.4	39.6	8.10	8.49	8.52
Boise City	268.41	292.70	297.65	38.9	39.5	39.9	6.90	7.41	7.46

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-12. 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		
	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P
ILLINOIS	\$330.77	\$363.60	\$366.16	39.9	40.0	39.8	\$8.29	\$9.09	\$9.20
Bloomington—Normal	298.48	323.09	337.50	41.0	38.1	39.8	7.28	8.48	8.48
Champaign—Urbana—Rantoul	260.64	319.28	334.06	36.0	38.7	40.2	7.24	8.25	8.31
Chicago SMSA	308.11	329.83	328.77	39.4	39.5	39.0	7.82	8.35	8.43
Davenport—Rock Island—Moline	391.64	438.52	454.10	39.6	39.4	40.4	9.89	11.13	11.24
Decatur	368.42	428.36	442.05	38.7	39.7	40.3	9.52	10.79	10.97
Kankakee	285.73	295.57	302.15	40.3	37.7	38.3	7.09	7.84	7.89
Peoria	393.51	478.40	483.60	39.0	39.9	40.0	10.09	11.99	12.09
Rockford	313.61	369.15	368.52	39.9	40.3	40.1	7.86	9.16	9.19
Springfield	327.16	399.99	416.83	39.8	39.8	41.6	8.22	10.05	10.02
INDIANA	345.46	380.57	379.89	39.8	40.4	40.2	8.68	9.42	9.45
Gary—Hammond—East Chicago	457.04	514.70	(*)	39.4	40.4	(*)	11.60	12.74	(*)
Indianapolis	342.86	387.20	(*)	40.1	41.5	(*)	8.55	9.33	(*)
IOWA	351.74	375.18	384.15	39.3	39.0	39.0	8.95	9.62	9.85
Cedar Rapids	358.40	375.77	385.07	40.0	38.9	38.3	8.96	9.66	9.90
Des Moines	358.87	399.29	410.74	38.3	39.3	39.8	9.37	10.16	10.32
Dubuque	383.90	418.66	409.58	37.6	39.2	37.1	10.21	10.68	11.04
Sioux City	364.63	281.98	286.13	43.1	37.2	37.5	8.46	7.58	7.63
Waterloo—Cedar Falls	480.00	492.50	486.53	40.1	39.4	38.4	11.97	12.50	12.67
KANSAS	306.27	328.04	326.33	41.0	40.3	39.7	7.47	8.14	8.22
Topeka	332.90	353.23	380.78	40.4	39.6	40.9	8.24	8.92	9.31
Wichita	334.96	362.03	358.57	41.2	41.0	40.7	8.13	8.83	8.81
KENTUCKY	293.25	306.12	312.76	39.1	38.7	38.9	7.50	7.91	8.04
Lexington—Fayette	286.99	308.83	312.58	39.1	37.8	38.4	7.34	8.17	8.14
Louisville	348.07	375.86	384.31	40.1	39.9	40.2	8.68	9.42	9.56
LOUISIANA	325.13	357.81	358.11	41.0	41.8	41.4	7.93	8.56	8.65
Baton Rouge	426.00	444.94	467.08	42.9	41.7	42.5	9.93	10.67	10.99
New Orleans	330.22	366.74	356.73	41.8	41.3	40.4	7.90	8.88	8.83
Shreveport	284.92	317.05	323.59	40.3	40.7	40.6	7.07	7.79	7.98
MAINE	246.21	270.28	276.98	40.1	40.4	40.2	6.14	6.69	6.89
Lewiston—Auburn	190.88	212.80	205.24	37.5	38.0	37.1	5.09	5.60	5.64
Portland	233.63	245.86	245.66	39.2	38.0	38.0	5.96	6.47	6.57
MARYLAND	306.90	333.56	341.94	39.6	39.9	39.9	7.75	8.36	8.57
Baltimore	322.40	354.09	364.75	40.0	40.7	40.8	8.06	8.70	8.94
MASSACHUSETTS	263.21	281.90	(*)	39.7	40.1	(*)	6.63	7.03	(*)
Boston	285.12	301.95	(*)	39.6	40.1	(*)	7.20	7.53	(*)
Brockton	210.65	224.46	(*)	39.3	38.7	(*)	5.36	5.80	(*)
Fall River	187.04	215.04	(*)	35.9	38.4	(*)	5.21	5.60	(*)
Lawrence—Haverhill	274.39	297.25	(*)	41.2	41.0	(*)	6.66	7.25	(*)
Lowell	240.16	254.66	(*)	39.5	39.3	(*)	6.08	6.48	(*)
New Bedford	207.43	231.94	(*)	36.2	38.4	(*)	5.73	6.04	(*)
Springfield—Chicopee—Holyoke	264.71	286.06	(*)	40.6	41.1	(*)	6.52	6.96	(*)
Worcester	254.41	287.03	(*)	39.2	40.2	(*)	6.49	7.14	(*)
MICHIGAN	386.55	423.54	410.14	40.0	40.6	38.5	9.66	10.43	10.65
Ann Arbor	382.20	456.40	478.40	37.1	40.9	41.8	10.30	11.16	11.45
Battle Creek	376.67	427.91	436.82	39.8	40.3	40.6	9.46	10.62	10.76
Bay City	357.10	381.86	375.41	40.4	40.4	41.2	8.84	9.45	9.21
Detroit	431.39	456.81	443.04	41.5	41.4	39.6	10.40	11.03	11.19
Flint	452.83	486.81	428.04	40.8	40.5	35.1	11.10	12.02	12.20
Grand Rapids	323.60	346.55	340.31	40.1	39.3	37.2	8.07	8.82	9.15
Jackson	366.92	411.48	403.42	42.8	43.4	41.5	8.57	9.48	9.72
Kalamazoo—Portage	353.16	390.49	373.53	40.0	40.1	38.1	8.83	9.74	9.80
Lansing—East Lansing	370.44	462.51	455.82	36.3	39.1	35.5	10.21	11.83	12.84
Muskegon—Norton Shores—Muskegon Heights	345.56	381.74	363.94	40.2	41.1	39.1	8.60	9.29	9.31
Saginaw	425.14	483.73	433.21	39.6	40.1	35.9	10.74	12.06	12.07
MINNESOTA	303.77	331.01	330.91	39.4	39.5	39.3	7.71	8.38	8.42
Duluth—Superior	270.78	332.35	335.83	37.4	39.1	39.7	7.24	8.50	8.56
Minneapolis—St. Paul	323.47	356.71	354.60	39.4	39.9	39.4	8.21	8.94	9.09
St. Cloud	214.83	255.97	256.30	33.0	35.8	35.0	6.51	7.15	7.38

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-12. 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		
	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P
MISSISSIPPI	\$221.60	\$237.40	\$238.54	40.0	39.5	39.3	\$5.54	\$6.01	\$6.08
Jackson.....	243.81	261.94	264.06	40.5	40.8	40.5	6.02	6.42	6.52
MISSOURI	287.82	314.03	311.59	39.0	39.6	38.9	7.38	7.93	8.01
Kansas City.....	325.28	359.20	356.18	39.2	40.0	39.4	8.40	8.98	9.04
St. Joseph.....	287.53	287.90	280.70	40.9	38.8	38.4	7.03	7.42	7.31
St. Louis.....	328.94	356.40	356.02	39.3	39.6	39.0	8.37	9.00	9.18
Springfield.....	275.93	306.27	304.64	40.4	41.0	40.7	6.83	7.47	7.49
MONTANA	375.68	377.15	366.56	45.1	43.4	41.7	8.33	8.69	8.80
NEBRASKA	310.90	322.81	328.03	40.8	40.1	40.2	7.62	8.05	8.16
Lincoln.....	300.58	304.57	296.45	40.4	38.7	38.4	7.44	7.87	7.72
Omaha.....	309.20	326.31	339.60	40.0	38.8	40.0	7.73	8.41	8.49
NEVADA	312.76	(*)	(*)	38.5	(*)	(*)	8.04	(*)	(*)
Las Vegas.....	385.24	(*)	(*)	39.8	(*)	(*)	9.78	(*)	(*)
NEW HAMPSHIRE	240.40	257.20	258.84	40.0	40.0	39.7	6.01	6.43	6.52
Manchester.....	226.46	236.77	246.63	39.8	39.2	39.0	5.69	6.04	6.17
Nashua.....	268.37	277.60	282.57	40.6	39.6	39.3	6.61	7.01	7.19
NEW JERSEY	300.85	320.74	326.82	40.6	40.6	40.7	7.41	7.90	8.03
Atlantic City.....	221.76	246.34	245.98	36.0	37.1	37.2	6.16	6.64	6.72
Camden.....	312.36	328.84	334.53	41.1	40.2	40.5	7.60	8.18	8.26
Hackensack.....	265.58	289.22	296.12	40.6	41.2	41.3	6.64	7.02	7.17
Jersey City.....	297.98	310.71	314.28	41.1	40.3	40.5	7.25	7.71	7.76
New Brunswick—Perth Amboy—Sayreville.....	357.01	375.78	409.91	42.1	41.8	43.7	8.48	8.99	9.38
Newark.....	319.19	333.27	337.43	41.4	41.4	41.0	7.71	8.05	8.23
Paterson—Clifton—Passaic.....	279.35	317.77	314.61	40.9	43.0	42.4	6.83	7.39	7.42
Trenton.....	301.72	320.58	315.28	38.0	39.0	38.7	7.94	8.22	8.25
NEW MEXICO	226.29	251.36	255.82	39.7	38.2	37.6	5.70	6.58	6.51
Albuquerque.....	249.23	258.25	266.32	41.4	37.7	35.0	6.02	6.85	6.88
NEW YORK	286.50	306.15	310.07	39.3	39.2	39.2	7.29	7.81	7.91
Albany—Schenectady—Troy.....	313.84	333.63	336.10	40.6	40.1	40.3	7.73	8.32	8.34
Binghamton.....	276.30	289.27	295.60	41.3	40.8	41.4	6.69	7.09	7.14
Buffalo.....	373.86	401.79	408.03	40.2	40.3	40.2	9.30	9.97	10.15
Elmira.....	283.61	317.75	312.73	39.5	41.0	40.3	7.18	7.75	7.76
Monroe County.....	398.04	412.05	417.38	42.3	41.0	40.8	9.41	10.05	10.23
Nassau—Suffolk.....	277.31	299.95	300.45	39.9	40.1	39.9	6.95	7.48	7.53
New York—Northeastern New Jersey.....	272.14	292.39	(*)	39.1	39.3	(*)	6.96	7.44	(*)
New York and Nassau—Suffolk.....	245.52	265.46	268.46	37.2	37.6	37.6	6.60	7.06	7.14
New York SMSA.....	237.90	256.41	255.04	36.6	37.0	36.9	6.50	6.93	7.02
New York City.....	234.21	252.50	255.76	36.2	36.7	36.8	6.47	6.88	6.95
Poughkeepsie.....	304.99	329.41	330.24	43.2	43.4	43.0	7.06	7.59	7.68
Rochester.....	365.56	384.99	387.22	41.9	41.0	40.6	8.82	9.39	9.54
Rockland County.....	274.44	299.69	306.48	40.3	39.8	39.7	6.81	7.53	7.72
Syracuse.....	319.97	339.42	343.54	41.5	40.6	40.8	7.71	8.36	8.42
Utica—Rome.....	263.74	292.64	296.91	39.6	39.6	39.8	6.66	7.39	7.46
Westchester County.....	261.80	276.57	276.40	38.9	38.2	37.1	6.73	7.24	7.45
NORTH CAROLINA	216.94	238.58	234.08	39.3	39.5	38.5	5.52	6.04	6.08
Asheville.....	217.46	234.59	235.22	39.5	40.1	39.8	5.45	5.85	5.91
Charlotte—Gastonia.....	220.84	250.10	231.00	40.3	41.0	38.5	5.48	6.10	6.00
Greensboro—Winston-Salem—High Point.....	242.35	266.63	255.75	39.6	39.5	37.5	6.12	6.75	6.82
Raleigh—Durham.....	249.80	270.47	265.30	39.4	39.6	39.2	6.34	6.83	6.87
NORTH DAKOTA	263.81	280.32	270.72	38.4	38.4	37.6	6.87	7.30	7.20
Fargo—Moorhead.....	283.71	312.34	290.22	38.6	40.8	38.0	7.35	7.68	7.64
OHIO	355.72	393.67	396.88	40.7	40.9	41.0	8.74	9.63	9.68
Akron.....	370.94	400.32	392.57	41.4	41.7	40.7	8.96	9.60	9.67
Canton.....	340.22	387.29	388.48	38.4	39.6	39.6	8.86	9.78	9.81
Cincinnati.....	335.38	356.47	365.38	41.1	40.6	41.1	8.16	8.78	8.89
Cleveland.....	356.06	400.05	401.14	40.6	41.2	41.1	8.77	9.71	9.76
Columbus.....	312.44	347.79	350.88	39.4	40.3	40.1	7.93	8.63	8.75
Dayton.....	367.33	413.55	402.41	41.6	41.9	41.4	8.83	9.87	9.72
Toledo.....	372.41	396.96	414.06	40.7	40.3	41.2	9.15	9.85	10.05
Youngstown—Warren.....	411.84	491.57	479.57	39.6	41.8	41.2	10.40	11.76	11.64

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-12. 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		
	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P
OKLAHOMA	\$300.35	\$328.84	\$320.15	40.1	40.2	38.9	\$7.49	\$8.18	\$8.23
Oklahoma City	321.20	346.66	342.22	39.9	39.8	39.2	8.05	8.71	8.73
Tulsa	319.99	357.93	355.24	40.2	41.0	40.5	7.96	8.73	8.87
OREGON	341.13	353.19	(*)	38.2	37.1	(*)	8.93	9.52	(*)
Eugene—Springfield	370.94	361.19	(*)	39.8	36.3	(*)	9.32	9.95	(*)
Jackson County	347.88	351.71	(*)	39.0	37.9	(*)	8.92	9.28	(*)
Portland	338.96	366.53	(*)	38.0	38.3	(*)	8.92	9.57	(*)
Salem	287.99	279.55	285.61	36.5	33.6	33.8	7.89	8.32	8.45
PENNSYLVANIA	299.15	330.17	331.57	36.7	39.4	39.1	7.73	8.38	8.48
Allentown—Bethlehem—Easton	307.04	336.78	336.49	38.0	38.8	38.5	8.08	8.68	8.74
Altoona	263.31	280.86	280.91	39.3	38.9	38.8	6.70	7.22	7.24
Delaware Valley	310.08	335.91	332.26	39.5	39.8	39.3	7.85	8.44	8.48
Erie	321.18	350.99	350.73	40.4	41.1	40.5	7.95	8.54	8.66
Harrisburg	294.03	310.87	302.62	40.5	39.5	38.6	7.26	7.87	7.84
Johnstown	311.07	335.02	326.90	36.9	37.6	38.1	8.43	8.91	8.58
Lancaster	260.17	281.25	287.04	39.6	38.9	39.0	6.57	7.23	7.36
Northeast Pennsylvania	218.65	231.84	222.23	36.2	36.8	36.4	6.04	6.30	6.38
Philadelphia SMSA	309.64	334.76	332.99	39.8	39.9	39.5	7.78	8.29	8.43
Pittsburgh	368.94	420.16	416.21	39.0	40.4	39.8	9.46	10.40	10.46
Reading	281.71	303.40	303.81	39.4	39.3	39.0	7.15	7.72	7.79
Scranton	215.16	230.89	233.60	36.1	38.1	37.8	5.96	6.06	6.18
Wilkes-Barre—Hazleton	220.70	232.92	231.16	36.3	36.0	35.4	6.08	6.47	6.53
Williamsport	275.73	302.51	304.55	39.0	39.7	39.5	7.07	7.62	7.71
York	276.69	310.58	310.02	40.1	41.3	40.9	6.90	7.52	7.53
RHODE ISLAND	225.04	236.78	242.48	39.9	38.5	39.3	5.64	6.15	6.17
Providence—Warwick—Pawtucket	223.04	235.85	241.30	39.9	38.6	39.3	5.59	6.11	6.14
SOUTH CAROLINA	228.80	255.15	252.33	40.0	40.5	39.8	5.72	6.30	6.34
Charleston—North Charleston	264.26	281.30	274.32	40.1	39.9	38.8	6.59	7.05	7.07
Columbia	220.30	247.02	241.25	39.2	40.1	39.1	5.62	6.16	6.17
Greenville—Spartanburg	226.69	253.58	256.00	39.7	40.9	40.7	5.71	6.20	6.29
SOUTH DAKOTA	277.44	291.72	297.56	40.8	40.8	41.5	6.80	7.15	7.17
Rapid City	218.75	250.92	257.74	32.6	36.0	37.3	6.71	6.97	6.91
Sioux Falls	382.34	402.74	421.36	43.3	45.1	44.4	8.83	8.93	9.49
TENNESSEE	246.93	266.66	272.05	39.7	39.8	39.6	6.22	6.70	6.87
Chattanooga	253.66	273.38	266.52	40.2	40.5	40.5	6.31	6.75	6.62
Knoxville	276.31	295.46	300.17	39.7	39.5	39.6	6.96	7.48	7.58
Memphis	290.90	303.69	(*)	40.8	40.6	(*)	7.13	7.48	(*)
Nashville—Davidson	263.19	300.03	302.48	39.4	40.6	40.9	6.68	7.39	7.42
TEXAS	302.95	334.05	337.82	41.5	41.6	41.4	7.30	8.03	8.16
Abilene	193.26	250.99	239.36	40.6	44.9	44.0	4.76	5.59	5.44
Amarillo	295.64	314.02	302.47	42.6	39.4	40.6	6.94	7.97	7.45
Austin	241.84	266.27	264.16	41.2	41.8	41.6	5.87	6.37	6.35
Beaumont—Port Arthur—Orange	423.11	444.72	468.86	42.1	40.8	41.9	10.05	10.90	11.19
Corpus Christi	327.83	341.55	371.50	42.3	41.3	43.4	7.75	8.27	8.56
Dallas—Fort Worth	280.44	312.77	309.42	41.0	41.1	40.5	6.84	7.61	7.64
El Paso	205.51	217.61	214.50	42.2	44.5	42.9	4.87	4.89	5.00
Galveston—Texas City	443.50	499.49	499.82	41.8	43.7	43.5	10.61	11.43	11.49
Houston	385.37	414.04	416.90	43.3	43.4	43.7	8.90	9.54	9.54
Longview—Marshall	294.52	329.01	329.13	39.8	41.7	41.4	7.40	7.89	7.95
Lubbock	248.94	270.29	266.07	42.7	42.7	42.3	5.83	6.33	6.29
San Angelo	202.91	231.26	229.56	40.1	40.5	40.7	5.06	5.71	5.65
San Antonio	214.95	242.36	242.67	41.1	41.5	41.2	5.23	5.84	5.89
Sherman—Denison	265.98	294.32	295.86	40.3	39.4	39.5	6.60	7.47	7.49
Waco	243.10	271.61	276.48	39.4	40.6	40.9	6.17	6.69	6.76
Wichita Falls	274.46	293.97	297.56	40.6	41.0	41.5	6.76	7.17	7.17
UTAH	278.64	314.40	325.22	38.7	40.0	40.4	7.20	7.86	8.05
Salt Lake City—Ogden	269.40	300.15	309.59	39.1	41.4	41.5	6.89	7.25	7.46
VERMONT	256.22	270.86	275.01	40.8	39.6	39.4	6.28	6.84	6.98
Burlington	290.74	295.39	312.42	43.2	40.8	41.6	6.73	7.24	7.51
Springfield	278.66	303.28	305.14	40.8	40.6	41.0	6.83	7.47	7.54

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-12. 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		
	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P	SEP. 1980	AUG. 1981	SEP. 1981P
VIRGINIA	\$250.58	\$273.24	\$275.01	39.4	39.6	39.4	\$6.36	\$6.90	\$6.58
Bristol	207.12	211.69	218.13	36.4	35.4	35.7	5.69	5.98	6.11
Lynchburg	243.72	274.68	267.58	39.5	40.1	39.7	6.17	6.85	6.74
Norfolk—Virginia Beach—Portsmouth	282.35	291.72	301.04	41.4	40.8	42.4	6.82	7.15	7.10
Northern Virginia ¹⁰	285.91	300.05	311.92	40.1	39.9	40.3	7.13	7.52	7.74
Petersburgh—Colonial Heights—Hopewell	298.35	345.77	352.60	39.0	40.3	41.0	7.65	8.58	8.60
Richmond	329.26	343.17	345.15	40.8	39.4	39.0	8.07	8.71	8.85
Roanoke ⁷	238.00	250.38	257.54	39.8	39.0	39.5	5.98	6.42	6.52
WASHINGTON	372.68	415.01	423.36	38.7	39.3	39.2	9.63	10.56	10.80
Seattle—Everett	380.83	424.71	435.45	38.9	39.0	39.5	9.79	10.89	11.10
Spokane	341.10	369.51	373.76	37.9	37.4	36.5	9.00	9.88	10.24
Tacoma	368.77	358.03	413.87	37.9	37.8	37.9	9.73	10.53	10.92
WEST VIRGINIA	314.50	347.60	357.63	38.4	39.5	39.3	8.19	8.80	9.10
Charleston	365.56	430.77	435.56	41.2	43.6	42.8	8.97	9.88	10.20
Huntington—Ashland	366.27	393.28	391.93	38.8	38.9	38.2	9.44	10.11	10.26
Parkersburg—Marietta	335.32	361.82	346.21	40.4	40.7	38.9	8.30	8.89	8.90
Wheeling	349.97	380.81	390.00	38.5	38.7	39.0	9.09	9.84	10.00
WISCONSIN	326.80	348.06	355.28	40.1	39.9	40.2	8.16	8.73	8.84
Appleton—Oshkosh	317.45	351.48	360.62	41.1	41.6	42.1	7.73	8.45	8.57
Eau Claire	330.61	348.59	354.08	41.4	41.0	40.8	7.99	8.49	8.68
Green Bay	337.46	369.90	381.66	41.5	42.5	42.7	8.12	8.71	8.94
Janeville—Beloit	352.16	359.18	363.50	40.6	38.9	38.7	8.67	9.23	9.39
Kenosha	363.43	385.26	428.23	39.0	39.3	39.8	9.31	9.81	10.75
La Crosse	289.46	313.98	318.50	40.8	40.4	40.6	7.09	7.77	7.84
Madison	329.52	338.54	335.81	38.7	40.0	39.6	8.52	8.47	8.49
Milwaukee	364.98	390.31	395.37	40.1	39.8	39.6	9.11	9.80	9.86
Racine	347.18	377.54	381.26	39.6	40.0	39.7	8.78	9.44	9.61
WYOMING	320.88	336.13	324.72	42.0	40.4	41.0	7.64	8.32	7.92
VIRGIN ISLAND	295.26	360.14	377.52	39.9	41.3	41.9	7.40	8.72	9.01

¹ Hours and earnings data adjusted to March 1980 benchmark.

² Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

³ Subarea of New York—Northeastern New Jersey.

⁴ Subarea of Rochester Standard Metropolitan Statistical Area.

⁵ Area included in New York and Nassau-Suffolk combined SMSA's.

⁶ Subarea of New York Standard Metropolitan Statistical Area.

⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

⁸ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area:

Lackawanna County.

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

¹⁰ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

p = preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

ESTABLISHMENT DATA LABOR TURNOVER

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

[Per 100 employees]

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions													
1971.....	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972.....	4.5	4.1	3.7	4.0	4.1	4.9	5.4	4.7	6.1	5.4	4.8	3.7	2.7
1973.....	4.8	4.7	4.1	4.5	4.6	5.4	5.9	5.2	6.3	5.8	5.2	3.8	2.6
1974.....	4.2	4.2	3.7	4.1	4.5	5.1	5.4	4.9	5.5	4.9	3.8	2.4	1.8
1975.....	3.7	2.9	2.7	3.2	3.7	4.0	4.5	4.6	5.2	4.6	3.7	2.8	2.2
1976.....	3.9	3.9	3.5	4.2	3.9	4.5	4.8	4.2	5.1	4.4	3.5	2.9	2.2
1977.....	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.3	5.3	4.6	3.9	3.1	2.4
1978.....	4.1	3.8	3.2	3.8	4.0	4.7	4.9	4.4	5.4	4.9	4.3	3.3	2.4
1979.....	4.0	4.0	3.4	3.8	3.9	4.7	4.8	4.3	5.0	4.5	4.1	3.0	2.2
1980.....	3.5	3.8	3.3	3.5	3.1	3.4	3.9	3.8	4.5	4.3	3.6	2.7	2.2
1981.....		3.4	3.0	3.4	3.3	3.5	4.0	3.6	4.0	P3.5			
New hires													
1971.....	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972.....	3.3	2.6	2.5	2.8	2.9	3.7	4.2	3.5	4.5	4.3	3.9	2.9	2.1
1973.....	3.9	3.5	3.2	3.5	3.7	4.5	5.0	4.1	5.1	4.8	4.4	3.1	2.0
1974.....	3.2	3.2	2.8	3.1	3.3	4.0	4.3	3.7	4.2	3.9	2.9	1.7	1.0
1975.....	2.0	1.3	1.2	1.3	1.6	2.0	2.5	2.6	3.1	3.1	2.5	1.8	1.3
1976.....	2.6	2.1	2.1	2.7	2.6	3.1	3.6	2.9	3.6	3.2	2.5	1.9	1.3
1977.....	2.8	2.2	2.1	2.6	2.7	3.5	3.7	3.0	4.0	3.5	3.0	2.2	1.6
1978.....	3.1	2.5	2.2	2.7	2.9	3.6	3.9	3.3	4.2	3.9	3.5	2.6	1.7
1979.....	2.9	2.8	2.5	2.8	2.9	3.6	3.8	3.1	3.7	3.4	3.1	2.2	1.5
1980.....	2.1	2.4	2.2	2.3	2.0	2.1	2.4	2.1	2.5	2.6	2.2	1.6	1.2
1981.....		1.8	1.8	2.0	2.0	2.3	2.8	2.4	2.7	P2.3			
Recalls													
1976.....	1.0	1.4	1.0	1.2	1.0	1.0	0.9	1.1	1.1	0.8	0.7	0.7	0.7
1977.....	.9	1.2	1.3	1.1	.9	.8	.8	.9	1.0	.8	.6	.6	.6
1978.....	.7	1.0	.7	.8	.8	.7	.8	.9	.7	.7	.6	.5	.5
1979.....	.7	.9	.7	.7	.7	.8	.7	.9	.9	.8	.7	.6	.5
1980.....	1.1	1.1	.9	.9	.8	1.0	1.2	1.5	1.7	1.4	1.1	.9	.8
1981.....		1.3	1.0	1.1	1.1	1.0	.9	1.0	1.0	P .9			
Total separations													
1971.....	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972.....	4.3	4.1	3.5	3.9	3.8	3.9	4.2	4.8	5.5	5.5	4.4	3.8	3.7
1973.....	4.7	4.3	3.8	4.3	4.2	4.4	4.5	5.2	6.5	5.8	5.0	4.2	4.0
1974.....	4.9	5.0	4.1	4.4	4.3	4.4	4.2	4.9	6.2	5.5	5.1	5.0	5.2
1975.....	4.2	6.1	4.5	4.2	4.0	3.9	3.7	4.4	4.7	4.4	4.1	3.5	3.4
1976.....	3.8	3.7	3.0	3.5	3.6	3.4	3.6	4.3	4.9	4.7	4.1	3.4	3.5
1977.....	3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.3	5.1	4.9	3.8	3.4	3.4
1978.....	3.9	3.6	3.1	3.5	3.6	3.7	3.8	4.1	5.3	4.9	4.1	3.5	3.4
1979.....	4.0	3.8	3.2	3.6	3.7	3.8	3.9	4.3	5.7	4.7	4.2	3.8	3.5
1980.....	4.0	4.1	3.5	3.7	4.7	4.8	4.4	4.2	4.8	4.1	3.8	3.0	3.1
1981.....		3.6	3.1	3.2	3.1	3.1	3.2	3.6	4.4	P4.1			
Quits													
1971.....	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972.....	2.3	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	2.0	1.6
1973.....	2.8	2.3	2.1	2.5	2.5	2.8	2.8	2.8	4.6	4.0	3.1	2.3	1.6
1974.....	2.4	2.2	2.0	2.3	2.4	2.7	2.5	2.6	4.0	3.3	2.2	1.4	1.0
1975.....	1.4	1.1	.9	1.0	1.1	1.3	1.4	1.5	2.5	2.1	1.6	1.2	.9
1976.....	1.7	1.3	1.2	1.6	1.7	1.7	1.8	1.9	2.8	2.5	1.7	1.2	1.0
1977.....	1.8	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9	1.5	1.2
1978.....	2.1	1.5	1.4	1.8	2.0	2.1	2.2	2.1	3.5	3.1	2.3	1.7	1.3
1979.....	2.0	1.8	1.6	1.9	2.0	2.1	2.1	2.0	3.3	2.7	2.1	1.6	1.1
1980.....	1.5	1.6	1.5	1.6	1.5	1.5	1.4	1.4	2.2	1.9	1.4	1.1	.9
1981.....		1.2	1.1	1.2	1.3	1.3	1.4	1.5	2.1	P1.8			
Layoffs													
1971.....	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972.....	1.1	1.5	1.1	1.1	1.0	.9	1.1	1.7	.9	.9	1.0	1.0	1.3
1973.....	.9	1.1	.8	.8	.7	.7	.7	1.4	.8	.8	.8	1.1	1.6
1974.....	1.5	1.8	1.3	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975.....	2.1	4.0	2.9	2.5	2.1	1.8	1.6	2.0	1.3	1.5	1.6	1.7	1.9
1976.....	1.3	1.6	1.0	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977.....	1.1	1.7	1.4	1.0	.9	.8	.8	1.5	1.0	1.1	1.1	1.1	1.5
1978.....	.9	1.2	.9	.9	.8	.7	.7	1.1	.8	.8	.9	1.0	1.4
1979.....	1.1	1.1	.8	.8	.9	.7	.9	1.4	1.3	1.1	1.2	1.5	1.7
1980.....	1.7	1.6	1.2	1.3	2.3	2.5	2.2	2.0	1.7	1.4	1.5	1.4	1.6
1981.....		1.6	1.2	1.2	1.0	1.0	1.1	1.3	1.3	P1.5			

=preliminary.

ESTABLISHMENT DATA LABOR TURNOVER

D-2. Labor turnover rates, by industry

(Per 100 employees)

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P
	MANUFACTURING	4.0	3.5	2.7	2.3	1.0	0.9	4.4	4.1	2.1	1.8	1.3	1.5
24, 25, 32-39	DURABLE GOODS	3.3	3.0	2.1	1.8	.9	.9	4.1	3.6	1.7	1.4	1.5	1.5
20-23, 26-31	NONDURABLE GOODS	5.0	4.2	3.5	3.0	1.2	1.0	4.8	4.7	2.8	2.3	1.1	1.5
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	4.3	3.9	3.4	2.4	.7	1.4	6.5	6.7	3.1	2.4	2.3	3.4
242	Sawmills and planing mills	3.6	-	2.8	-	.6	-	6.4	-	2.6	-	2.9	-
2471	Sawmills and planing mills, general	3.1	-	2.4	-	.5	-	6.2	-	2.3	-	3.0	-
243	Millwork, plywood, and structural members	4.2	-	3.1	-	1.0	-	6.2	-	3.1	-	2.1	-
2431	Millwork	3.5	-	2.4	-	1.1	-	6.1	-	2.7	-	2.5	-
244	Wood containers	5.5	-	4.3	-	1.1	-	7.9	-	4.1	-	2.5	-
245	Wood buildings and mobile homes	7.2	-	6.7	-	.4	-	11.0	-	6.0	-	3.4	-
2451	Mobile homes	9.2	-	8.6	-	.5	-	11.4	-	6.9	-	2.4	-
249	Miscellaneous wood products	4.7	-	3.9	-	.6	-	6.1	-	3.3	-	1.6	-
25	FURNITURE AND FIXTURES	4.9	3.9	3.7	3.2	1.1	.6	4.8	4.3	2.8	2.3	1.0	1.1
251	Household furniture	5.3	-	3.8	-	1.3	-	5.3	-	3.2	-	1.1	-
2511	Wood household furniture	5.4	-	4.0	-	1.2	-	5.8	-	3.6	-	1.2	-
2512	Upholstered household furniture	5.3	-	4.0	-	1.1	-	4.5	-	3.0	-	.6	-
2515	Mattresses and bedspings	3.8	-	3.1	-	.6	-	3.7	-	2.4	-	.4	-
252	Office furniture	3.3	-	3.0	-	.2	-	2.4	-	1.7	-	.1	-
254	Partitions and fixtures	5.2	-	4.4	-	.6	-	5.9	-	2.9	-	1.8	-
32	STONE, CLAY, AND GLASS PRODUCTS	3.7	2.7	2.2	1.6	1.2	.9	4.7	4.0	2.0	1.3	1.6	1.8
322	Glass and glassware, pressed or blown	3.1	-	1.6	-	1.2	-	4.1	-	1.7	-	1.2	-
3221	Glass containers	3.1	-	1.8	-	1.1	-	4.2	-	2.2	-	1.1	-
3229	Pressed and blown glass, nec	3.0	-	1.2	-	1.2	-	4.1	-	1.2	-	1.4	-
323	Products of purchased glass	4.0	-	2.1	-	1.6	-	3.7	-	1.6	-	1.1	-
324	Cement, hydraulic	1.6	-	.7	-	.9	-	4.1	-	1.5	-	1.7	-
325	Structural clay products	5.1	-	3.1	-	1.9	-	6.3	-	3.0	-	1.8	-
326	Pottery and related products	4.4	-	2.6	-	1.5	-	4.0	-	2.1	-	1.2	-
327	Concrete, gypsum, and plaster products	4.6	-	3.2	-	1.3	-	5.6	-	2.7	-	2.0	-
329	Misc. nonmetallic mineral products	2.7	-	1.6	-	.9	-	4.3	-	1.6	-	1.7	-
33	PRIMARY METAL INDUSTRIES	2.6	2.4	1.2	1.0	1.2	1.1	3.6	3.8	1.1	.8	1.7	2.3
331	Blast furnace and basic steel products	2.2	-	.6	-	1.3	-	3.4	-	.8	-	1.8	-
3312	Blast furnaces and steel mills	2.1	-	.4	-	1.3	-	3.4	-	.7	-	1.9	-
332	Iron and steel foundries	3.6	-	1.7	-	1.5	-	4.3	-	1.4	-	1.9	-
3321	Gray iron foundries	3.2	-	1.6	-	1.2	-	4.5	-	1.3	-	2.4	-
3325	Steel foundries, nec	4.3	-	2.3	-	1.6	-	4.1	-	1.6	-	1.0	-
333	Primary nonferrous metals	1.1	-	.6	-	.4	-	2.8	-	1.0	-	1.0	-
335	Nonferrous rolling and drawing	2.1	-	1.2	-	.8	-	2.8	-	.9	-	1.1	-
3351	Copper rolling and drawing	2.5	-	1.5	-	.9	-	2.4	-	1.1	-	.5	-
3353	Aluminum sheet, plate, and foil	1.1	-	.4	-	.6	-	2.8	-	.9	-	1.5	-
3357	Nonferrous wire drawing and insulating	2.4	-	1.3	-	1.0	-	2.2	-	.8	-	.8	-
336	Nonferrous foundries	4.3	-	2.8	-	1.3	-	5.5	-	1.7	-	2.7	-
3361	Aluminum foundries	4.7	-	2.7	-	1.6	-	6.5	-	1.8	-	3.5	-
34	FABRICATED METAL PRODUCTS	3.8	3.2	2.3	2.0	1.1	.9	4.4	4.0	1.9	1.5	1.6	1.8
341	Metal cans and shipping containers	3.3	-	1.0	-	1.8	-	4.7	-	1.5	-	2.3	-
3411	Metal cans	3.2	-	.8	-	1.9	-	4.7	-	1.2	-	2.5	-
342	Cutlery, hand tools, and hardware	3.7	-	1.8	-	1.2	-	4.9	-	1.6	-	2.4	-
3423, 5	Hand and edge tools, and hand saws and blades	2.7	-	2.0	-	.7	-	5.2	-	1.6	-	3.0	-
3429	Hardware, nec	4.3	-	1.7	-	1.5	-	5.0	-	1.7	-	2.4	-
343	Plumbing and heating, except electric	3.7	-	2.1	-	1.5	-	3.8	-	1.8	-	1.2	-
344	Fabricated structural metal products	4.1	-	2.9	-	1.0	-	4.5	-	2.3	-	1.3	-
3441	Fabricated structural metal	5.6	-	3.3	-	2.2	-	4.6	-	2.4	-	1.3	-
3442	Metal doors, sash, and trim	4.6	-	3.6	-	.8	-	5.9	-	3.0	-	1.8	-
3443	Fabricated plate work (boiler shops)	2.6	-	1.9	-	.6	-	2.9	-	1.5	-	.7	-
3444	Sheet metal work	4.2	-	3.1	-	1.0	-	5.1	-	2.3	-	1.7	-
345	Screw machine products, bolts, etc.	3.2	-	2.4	-	.7	-	3.7	-	2.0	-	.9	-
3451	Screw machine products	4.1	-	3.1	-	.9	-	4.6	-	2.7	-	1.0	-
3452	Bolts, nuts, rivets, and washers	2.4	-	1.7	-	.6	-	2.9	-	1.4	-	.7	-
346	Metal forgings and stampings	4.0	-	1.8	-	1.6	-	4.9	-	1.5	-	2.7	-
3462	Iron and steel forgings	2.8	-	1.0	-	1.5	-	3.7	-	1.2	-	1.6	-
3465	Automotive stampings	4.5	-	.5	-	2.5	-	6.9	-	.9	-	5.4	-
3469	Metal stampings, nec	4.2	-	3.2	-	.9	-	4.0	-	2.1	-	.9	-
347	Metal services, nec	4.5	-	3.0	-	1.4	-	5.4	-	2.6	-	1.7	-
348	Ordnance and accessories, nec	2.1	-	1.5	-	.3	-	2.1	-	1.0	-	.6	-
349	Misc. fabricated metal products	3.5	-	2.4	-	.8	-	3.9	-	1.9	-	1.2	-
3494	Valves and pipe fittings	2.1	-	1.5	-	.5	-	2.9	-	1.5	-	.7	-
3496	Misc. fabricated wire products	5.1	-	3.3	-	1.2	-	4.7	-	2.3	-	1.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

(Per 100 employees)

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P
35	MACHINERY, EXCEPT ELECTRICAL	2.8	2.4	1.8	1.6	0.7	0.6	3.3	2.7	1.4	1.1	1.1	0.9
351	Engines and turbines	2.9	-	.7	-	1.6	-	2.4	-	.7	-	.8	-
3511	Turbines and turbine generator sets	1.3	-	.6	-	(1)	-	1.7	-	.4	-	.4	-
3519	Internal combustion engines, nec	3.7	-	.7	-	2.2	-	2.8	-	.8	-	.9	-
352	Farm and garden machinery	3.7	-	1.2	-	2.2	-	5.3	-	1.1	-	3.0	-
3523	Farm machinery and equipment	3.3	-	1.2	-	1.8	-	5.5	-	1.1	-	3.3	-
353	Construction and related machinery	2.7	-	2.1	-	.5	-	2.9	-	1.4	-	.7	-
3531	Construction machinery	2.0	-	1.0	-	.8	-	1.7	-	.8	-	.4	-
3533	Oil field machinery	4.1	-	3.9	-	.1	-	3.5	-	2.6	-	(1)	-
354	Metalworking machinery	2.8	-	1.6	-	1.0	-	3.9	-	1.4	-	1.9	-
3541	Machine tools, metal cutting types	1.0	-	.7	-	.2	-	2.0	-	1.1	-	.5	-
3544	Special dies, tools, jigs, and fixtures	3.3	-	2.3	-	.8	-	4.2	-	1.7	-	1.5	-
3545	Machine tool accessories	2.1	-	1.5	-	.4	-	2.6	-	1.3	-	.6	-
355	Special industry machinery	2.1	-	1.4	-	.6	-	2.8	-	1.3	-	.8	-
3551	Food products machinery	2.1	-	1.3	-	.7	-	2.8	-	1.0	-	1.3	-
3552	Textile machinery	3.5	-	1.6	-	1.6	-	3.1	-	1.5	-	.7	-
356	General industrial machinery	2.4	-	1.5	-	.6	-	2.7	-	1.2	-	.7	-
3561	Pumps and pumping equipment	2.1	-	1.5	-	.4	-	2.0	-	1.1	-	.2	-
3562	Ball and roller bearings	1.8	-	.8	-	.4	-	2.4	-	.7	-	1.1	-
3564	Blowers and fans	2.8	-	1.8	-	.8	-	3.5	-	1.4	-	1.1	-
357	Office and computing machines	2.6	-	2.1	-	.2	-	2.5	-	1.3	-	.3	-
3573	Electronic computing equipment	2.7	-	2.2	-	.2	-	2.3	-	1.3	-	.2	-
358	Refrigeration and service machinery	3.0	-	2.0	-	.7	-	4.5	-	1.4	-	1.9	-
3585	Refrigeration and heating equipment	2.7	-	1.6	-	.6	-	3.7	-	1.1	-	1.3	-
359	Misc. machinery, except electrical	3.4	-	2.7	-	.6	-	4.0	-	2.0	-	1.1	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	3.0	3.0	2.0	1.9	.6	.7	3.5	3.2	1.6	1.3	1.0	1.0
361	Electric distributing equipment	2.8	-	1.9	-	.4	-	3.5	-	1.7	-	.7	-
3612	Transformers	3.2	-	2.0	-	.6	-	4.1	-	1.7	-	1.1	-
3613	Switchgear and switchboard apparatus	2.4	-	1.9	-	.3	-	3.0	-	1.7	-	.5	-
362	Electrical industrial apparatus	2.8	-	1.7	-	.6	-	3.2	-	1.2	-	.9	-
3621	Motors and generators	3.3	-	1.9	-	.8	-	3.8	-	1.2	-	1.3	-
3622	Industrial controls	2.5	-	1.6	-	.5	-	2.6	-	1.2	-	.6	-
363	Household appliances	5.2	-	1.7	-	2.0	-	8.5	-	1.4	-	5.2	-
3632	Household refrigerators and freezers	9.4	-	.1	-	7.0	-	22.2	-	1.0	-	18.3	-
3633	Household laundry equipment	1.7	-	.2	-	.3	-	7.6	-	.7	-	5.9	-
3634	Electric housewares and fans	5.3	-	4.1	-	1.0	-	3.7	-	2.4	-	.3	-
364	Electric lighting and wiring equipment	3.4	-	2.1	-	.8	-	4.1	-	1.6	-	1.7	-
3641	Electric lamps	2.7	-	1.2	-	.7	-	2.2	-	.7	-	.6	-
3643	Current-carrying wiring devices	2.5	-	1.8	-	.4	-	3.4	-	1.5	-	1.1	-
365	Radio and TV receiving equipment	3.6	-	1.8	-	.8	-	3.0	-	1.2	-	.7	-
3651	Radio and TV receiving sets	3.7	-	2.1	-	.5	-	3.1	-	1.2	-	.7	-
366	Communication equipment	1.8	-	1.3	-	.2	-	2.1	-	1.2	-	.2	-
3661	Telephone and telegraph apparatus	.7	-	.4	-	.3	-	1.5	-	.6	-	.3	-
3662	Radio and TV communication equipment	2.2	-	1.7	-	.2	-	2.3	-	1.5	-	.2	-
367	Electronic components and accessories	3.3	-	2.7	-	.4	-	3.6	-	2.3	-	.5	-
3671-3	Electronic tubes	2.4	-	1.4	-	.5	-	2.3	-	1.2	-	.3	-
3674	Semiconductors and related devices	1.9	-	1.4	-	.3	-	2.9	-	1.6	-	.6	-
3679	Electronic components, nec	4.3	-	3.6	-	.5	-	4.1	-	2.7	-	.5	-
369	Misc. electrical equipment and supplies	3.3	-	2.1	-	.8	-	3.1	-	1.3	-	.9	-
3694	Engine electrical equipment	3.1	-	1.8	-	.9	-	3.4	-	1.3	-	1.4	-
37	TRANSPORTATION EQUIPMENT	2.7	-	1.4	-	.9	-	4.5	-	1.2	-	2.5	-
371	Motor vehicles and equipment	3.1	-	1.0	-	1.4	-	7.1	-	.9	-	5.2	-
3711	Motor vehicles and car bodies	2.8	-	.9	-	1.3	-	7.7	-	.8	-	6.2	-
3713	Truck and bus bodies	1.9	-	1.0	-	.9	-	10.8	-	2.0	-	7.9	-
3714	Motor vehicle parts and accessories	3.4	-	.9	-	1.5	-	6.2	-	.9	-	4.2	-
3715	Truck trailers	4.7	-	2.5	-	2.1	-	7.1	-	2.2	-	3.6	-
372	Aircraft and parts	1.6	-	1.2	-	.2	-	2.0	-	1.0	-	.4	-
3721	Aircraft	1.3	-	1.0	-	.1	-	1.8	-	1.0	-	.4	-
3724	Aircraft engines and engine parts	1.4	-	.7	-	.3	-	1.7	-	.7	-	.4	-
3728	Aircraft equipment, nec	2.8	-	2.2	-	.3	-	2.6	-	1.5	-	.4	-
373	Ship and boat building and repairing	4.4	-	2.9	-	1.5	-	5.4	-	2.3	-	2.0	-
3731	Ship building and repairing	4.2	-	2.4	-	1.7	-	5.0	-	1.8	-	2.1	-
3732	Boat building and repairing	5.2	-	4.6	-	.5	-	6.8	-	4.1	-	1.6	-
374	Railroad equipment	3.6	-	.4	-	2.6	-	3.3	-	.5	-	1.9	-
376	Guided missiles, space vehicles, parts	1.9	-	1.4	-	.2	-	1.7	-	1.2	-	.2	-
3761	Guided missiles and space vehicles	1.8	-	1.5	-	.1	-	1.7	-	1.2	-	.1	-
379	Miscellaneous transportation equipment	6.1	-	4.5	-	1.4	-	6.3	-	3.6	-	1.7	-
38	INSTRUMENTS AND RELATED PRODUCTS	2.6	2.4	2.1	1.9	.4	.2	2.9	3.2	1.8	1.9	.5	.7
381	Engineering and scientific instruments	2.4	-	2.0	-	.2	-	2.8	-	1.7	-	.6	-
382	Measuring and controlling devices	2.9	-	2.1	-	.5	-	3.1	-	1.8	-	.6	-
3822	Environmental controls	2.9	-	2.3	-	.4	-	2.8	-	1.6	-	.5	-
3823	Process control instruments	2.7	-	1.7	-	.9	-	3.5	-	2.7	-	.3	-
3825	Instruments to measure electricity	3.0	-	2.4	-	.2	-	2.9	-	1.7	-	.5	-

See footnotes at end of table.

ESTABLISHMENT DATA LABOR TURNOVER

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

(Per 100 employees)

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P	AUG. 1981	SEPT. 1981P
	INSTRUMENTS AND RELATED PRODUCTS—Cont'd												
383	Optical instruments and lenses	2.3	-	2.1	-	0.1	-	2.3	-	2.1	-	0.1	-
384	Medical instruments and supplies	2.9	-	2.3	-	.4	-	3.7	-	2.3	-	.7	-
3841	Surgical and medical instruments	2.8	-	2.4	-	.2	-	3.5	-	2.1	-	.7	-
3842	Surgical appliances and supplies	3.2	-	2.4	-	.7	-	4.1	-	2.7	-	.7	-
385	Ophthalmic goods	3.0	-	2.5	-	.2	-	4.3	-	2.8	-	.7	-
386	Photographic equipment and supplies	1.6	-	1.4	-	.1	-	1.3	-	.7	-	.1	-
387	Watches, clocks, and watchcases	5.1	-	3.0	-	1.9	-	3.4	-	1.6	-	.9	-
	MISCELLANEOUS MANUFACTURING INDUSTRIES												
39	Jewelry, silverware, and plated ware	6.0	4.9	4.4	3.8	1.4	0.9	5.4	5.1	3.0	2.3	1.3	1.7
391	Musical instruments	5.9	-	4.3	-	1.4	-	4.2	-	2.2	-	1.3	-
393	Toys and sporting goods	3.5	-	2.5	-	.6	-	4.2	-	2.6	-	.8	-
394	Dolls, games, toys, and children's vehicles	7.0	-	5.6	-	1.0	-	7.6	-	4.7	-	1.6	-
3942.4	Sporting and athletic goods, nec	8.9	-	7.7	-	.9	-	8.0	-	5.8	-	.7	-
3949	Pens, pencils, office and art supplies	4.7	-	3.1	-	1.2	-	7.2	-	3.3	-	2.7	-
395	Costume jewelry and notions	3.7	-	2.9	-	.7	-	3.6	-	2.5	-	.3	-
396	Miscellaneous manufactures	6.7	-	4.3	-	2.3	-	4.2	-	2.3	-	1.0	-
399	Miscellaneous manufactures	6.1	-	4.1	-	1.7	-	4.9	-	2.4	-	1.6	-
	NONDURABLE GOODS												
20	FOOD AND KINDRED PRODUCTS	8.5	6.6	5.5	4.2	2.7	2.2	6.6	7.6	3.7	3.3	2.0	3.3
201	Meat products	6.6	-	5.1	-	1.1	-	7.2	-	5.0	-	1.2	-
2011	Meat packing plants	4.8	-	2.8	-	1.6	-	5.6	-	2.8	-	1.8	-
2013	Sausages and other prepared meats	3.9	-	2.8	-	1.0	-	4.5	-	2.4	-	1.5	-
2016	Poultry dressing plants	10.7	-	9.5	-	.6	-	10.9	-	9.5	-	.1	-
202	Dairy products	3.1	-	2.3	-	.7	-	4.5	-	2.5	-	1.3	-
203	Preserved fruits and vegetables	23.7	-	14.5	-	8.8	-	11.7	-	5.6	-	5.0	-
204	Grain mill products	3.6	-	2.4	-	.7	-	3.8	-	2.2	-	.9	-
205	Bakery products	3.2	-	2.5	-	.5	-	3.2	-	2.2	-	.4	-
2051	Bread, cake, and related products	2.8	-	2.4	-	.3	-	3.3	-	2.3	-	.3	-
2052	Cookies and crackers	5.1	-	3.1	-	1.7	-	3.1	-	1.5	-	.8	-
206	Sugar and confectionery products	7.9	-	3.4	-	4.4	-	4.8	-	1.8	-	2.2	-
207	Fats and oils	2.6	-	1.9	-	.6	-	3.6	-	2.0	-	.8	-
208	Beverages	4.4	-	2.7	-	1.5	-	5.8	-	3.2	-	1.5	-
2082	Malt beverages	3.2	-	.9	-	2.0	-	6.0	-	1.1	-	3.4	-
2086	Bottled and canned soft drinks	4.0	-	3.6	-	.2	-	6.2	-	4.5	-	.6	-
209	Misc. foods and kindred products	8.0	-	5.6	-	2.0	-	8.3	-	4.3	-	3.0	-
21	TOBACCO MANUFACTURES	10.0	-	4.6	-	4.6	-	2.9	-	1.6	-	.3	-
211	Cigarettes	2.2	-	1.0	-	.2	-	2.6	-	1.4	-	(1)	-
22	TEXTILE MILL PRODUCTS	4.1	3.4	3.2	2.7	0.6	0.5	4.4	4.0	2.7	2.3	0.7	0.9
221	Weaving mills, cotton	3.2	-	2.5	-	.3	-	3.5	-	2.2	-	.3	-
222	Weaving mills, synthetics	4.2	-	3.1	-	.8	-	3.6	-	2.3	-	.3	-
223	Weaving and finishing mills, wool	4.1	-	3.2	-	.6	-	6.2	-	2.4	-	2.5	-
224	Narrow fabric mills	5.7	-	4.3	-	1.2	-	5.0	-	3.1	-	1.1	-
225	Knitting mills	4.5	-	3.5	-	.8	-	5.1	-	3.1	-	1.0	-
2251	Women's hosiery, except socks	4.5	-	3.8	-	.4	-	4.5	-	3.2	-	.2	-
2252	Hosiery, nec	5.0	-	4.6	-	.3	-	5.5	-	4.4	-	.2	-
2253	Knit outerwear mills	4.2	-	3.3	-	.8	-	4.6	-	2.8	-	.8	-
2254	Knit underwear mills	5.0	-	3.6	-	1.2	-	4.7	-	3.3	-	.6	-
2257	Circular knit fabric mills	4.2	-	2.9	-	1.0	-	6.3	-	2.5	-	3.0	-
226	Textile finishing, except wool	3.4	-	2.5	-	.5	-	3.8	-	2.0	-	.7	-
227	Floor covering mills	4.0	-	3.1	-	.3	-	4.0	-	2.5	-	.9	-
228	Yarn and thread mills	4.6	-	3.8	-	.6	-	5.2	-	3.5	-	.6	-
229	Miscellaneous textile goods	3.8	-	3.0	-	.6	-	3.9	-	2.0	-	1.0	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	6.8	5.7	4.6	4.2	1.9	1.3	6.1	5.3	3.8	3.2	1.3	1.3
231	Men's and boys' suits and coats	5.9	-	4.4	-	1.1	-	3.9	-	2.7	-	.4	-
232	Men's and boys' furnishings	6.2	-	4.8	-	1.2	-	5.7	-	4.2	-	.7	-
2321	Men's and boys' shirts and nightwear	6.0	-	4.7	-	.9	-	5.1	-	3.8	-	.6	-
2327	Men's and boys' separate trousers	6.2	-	4.8	-	1.3	-	5.4	-	4.4	-	.3	-
2328	Men's and boys' work clothing	5.9	-	5.3	-	.5	-	5.8	-	4.8	-	.3	-
233	Women's and misses' outerwear	6.6	-	3.9	-	2.5	-	6.1	-	3.4	-	1.7	-
234	Women's and children's undergarments	7.9	-	6.2	-	1.6	-	6.3	-	4.8	-	.6	-
2341	Women's and children's underwear	7.6	-	6.2	-	1.3	-	6.0	-	4.9	-	.3	-
2342	Brassieres and allied garments	9.0	-	6.3	-	2.5	-	7.5	-	4.5	-	2.1	-
236	Children's outerwear	6.3	-	4.3	-	1.7	-	6.3	-	3.9	-	1.5	-
238	Misc. apparel and accessories	7.6	-	5.0	-	2.2	-	5.7	-	4.2	-	.6	-
239	Misc. fabricated textile products	7.8	-	5.1	-	2.0	-	7.2	-	3.5	-	2.3	-
26	PAPER AND ALLIED PRODUCTS	2.6	2.3	1.8	1.6	0.6	0.6	3.6	3.4	1.9	1.5	0.9	1.1
261,2.6	Paper and pulp mills	1.6	-	.9	-	.5	-	2.8	-	1.7	-	.5	-
262	Paper mills, except building paper	1.6	-	.9	-	.4	-	2.7	-	1.7	-	.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

(Per 100 employees)

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		AUG. 1981	SEPT. 1981 P	AUG. 1981	SEPT. 1981 P	AUG. 1981	SEPT. 1981 P	AUG. 1981	SEPT. 1981 P	AUG. 1981	SEPT. 1981 P	AUG. 1981	SEPT. 1981 P
PAPER AND ALLIED PRODUCTS—Continued													
263	Paperboard mills	1.3	-	1.0	-	0.2	-	2.8	-	1.5	-	0.6	-
264	Misc. converted paper products	3.3	-	2.4	-	.7	-	4.2	-	2.0	-	1.3	-
265	Paperboard containers and boxes	3.3	-	2.3	-	.8	-	3.8	-	2.2	-	.8	-
2651	Folding paperboard boxes	3.9	-	2.9	-	.9	-	3.6	-	2.0	-	.7	-
2653	Corrugated and solid fiber boxes	2.7	-	1.9	-	.5	-	3.5	-	2.0	-	.7	-
27	PRINTING AND PUBLISHING	3.6	3.5	3.0	2.9	.4	.5	3.9	3.5	2.6	2.3	.6	.6
271	Newspapers	3.8	-	3.5	-	.1	-	4.2	-	3.3	-	.2	-
272	Periodicals	3.7	-	3.4	-	.4	-	3.5	-	2.6	-	.3	-
273	Books	3.0	-	2.1	-	.8	-	4.9	-	2.5	-	1.8	-
274	Miscellaneous publishing	3.1	-	2.7	-	.3	-	3.5	-	2.4	-	.3	-
275	Commercial printing	3.0	-	2.3	-	.6	-	3.2	-	1.8	-	.7	-
2751	Commercial printing, letterpress	3.3	-	2.4	-	.8	-	3.5	-	2.0	-	.8	-
2752	Commercial printing, lithographic	2.9	-	2.3	-	.5	-	2.9	-	1.6	-	.7	-
278	Blankbooks and bookbinding	4.1	-	3.7	-	.4	-	5.0	-	3.2	-	.8	-
28	CHEMICALS AND ALLIED PRODUCTS	1.7	1.4	1.3	1.1	.3	.2	2.6	2.0	1.4	.9	.5	.5
281	Industrial inorganic chemicals	1.5	-	1.2	-	.1	-	2.2	-	1.1	-	.4	-
2819	Industrial inorganic chemicals, nec	1.2	-	.9	-	.1	-	2.3	-	1.1	-	.6	-
282	Plastics materials and synthetics	1.1	-	.7	-	.2	-	2.3	-	1.1	-	.5	-
2821	Plastics materials and resins	1.4	-	1.0	-	.3	-	2.3	-	1.1	-	.2	-
2824	Organic fibers, noncellulosic	.6	-	.4	-	.1	-	1.9	-	1.4	-	.3	-
283	Drugs	1.7	-	1.3	-	.2	-	2.9	-	1.5	-	.7	-
2834	Pharmaceutical preparations	1.7	-	1.4	-	.2	-	2.8	-	1.3	-	.8	-
284	Soap, cleaners, and toilet goods	2.9	-	2.3	-	.4	-	3.4	-	2.0	-	.5	-
2841	Soap and other detergents	1.8	-	1.4	-	.3	-	2.2	-	1.1	-	.6	-
2844	Toilet preparations	4.2	-	3.2	-	.6	-	4.6	-	2.7	-	.6	-
285	Paints and allied products	2.1	-	1.7	-	.2	-	3.4	-	1.9	-	.6	-
286	Industrial organic chemicals	1.0	-	.7	-	.1	-	2.0	-	1.0	-	.2	-
287	Agricultural chemicals	1.6	-	1.1	-	.5	-	3.2	-	1.7	-	.8	-
289	Miscellaneous chemical products	2.5	-	1.6	-	.7	-	2.6	-	1.5	-	.4	-
29	PETROLEUM AND COAL PRODUCTS	1.9	2.0	1.7	1.6	.2	.3	3.3	3.1	1.3	.8	1.1	1.1
291	Petroleum refining	1.8	-	1.6	-	.1	-	2.7	-	1.2	-	.6	-
295	Paving and roofing materials	3.1	-	2.3	-	.7	-	6.2	-	1.8	-	3.6	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	4.4	3.7	3.2	2.8	.9	.6	4.7	4.5	2.6	2.0	1.0	1.5
301	Tires and inner tubes	1.4	-	.5	-	.5	-	2.0	-	.5	-	.7	-
302	Rubber and plastics footwear	6.1	-	3.4	-	2.5	-	7.4	-	3.5	-	3.1	-
303,4	Reclaimed rubber, and rubber and plastics hose and helting	3.2	-	2.0	-	.7	-	3.1	-	1.4	-	.9	-
306	Fabricated rubber products, nec	3.9	-	2.6	-	.8	-	3.6	-	1.7	-	1.0	-
307	Miscellaneous plastics products	5.2	-	4.0	-	.9	-	5.6	-	3.3	-	1.0	-
31	LEATHER AND LEATHER PRODUCTS	7.2	5.1	5.2	4.1	1.7	.8	7.2	6.5	4.2	3.5	1.8	2.2
311	Leather tanning and finishing	5.4	-	4.3	-	1.1	-	5.9	-	3.4	-	1.3	-
314	Footwear, except rubber	7.0	-	4.6	-	1.8	-	7.9	-	4.4	-	2.2	-
3143	Men's footwear, except athletic	5.8	-	4.6	-	.4	-	6.3	-	4.5	-	.5	-
3144	Women's footwear, except athletic	7.3	-	3.8	-	3.1	-	9.3	-	3.5	-	4.2	-
NONMANUFACTURING:													
-	MINING	5.4	5.1	4.4	4.1	.6	.6	5.3	5.3	3.7	3.7	.3	.3
10	METAL MINING	1.4	1.2	1.0	.7	.2	.3	4.2	2.7	2.1	1.1	1.3	.8
101	Iron ores	1.3	-	.3	-	.3	-	3.9	-	.6	-	2.1	-
102	Copper ores	.9	-	.7	-	.1	-	3.1	-	1.3	-	1.0	-
12	BITUMINOUS COAL AND LIGNITE MINING	2.1	2.1	1.4	1.2	.5	.7	1.3	1.2	.8	.7	.1	.1
13	OIL AND GAS EXTRACTION	7.8	7.4	6.5	6.2	.7	.6	7.3	7.8	5.5	5.6	.1	.3
131, 2	Crude petroleum, natural gas, and natural gas liquids	2.8	-	2.0	-	.5	-	3.6	-	2.6	-	.1	-
138	Oil and gas field services	11.0	-	9.4	-	.8	-	9.6	-	7.3	-	.2	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	2.2	2.2	1.6	1.5	.5	.6	3.6	2.7	1.8	1.4	1.1	.7
142	Crushed and broken stone	2.8	-	1.8	-	.8	-	4.9	-	2.4	-	1.8	-
144	Sand and gravel	2.8	-	2.2	-	.4	-	3.7	-	1.5	-	1.4	-
-	COMMUNICATION:												
481	Telephone communication	.9	-	.8	-	(1)	-	1.5	-	.6	-	.3	-

¹ Less than 0.05.

p=preliminary.

ESTABLISHMENT DATA SEASONALLY ADJUSTED LABOR TURNOVER

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

(Per 100 employees)

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

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	
	July 1981	Aug. 1981 ^P	July 1981	Aug. 1981 ^P	July 1981	Aug. 1981 ^P	July 1981	Aug. 1981 ^P	July 1981	Aug. 1981 ^P	July 1981	Aug. 1981 ^P
ALABAMA:												
Birmingham	2.5	2.6	1.2	1.6	1.2	0.9	2.6	2.9	0.9	1.2	1.1	1.2
Mobile	5.7	3.8	4.5	2.0	1.2	1.8	3.8	5.5	1.6	2.2	1.2	2.8
ALASKA	24.1	15.8	23.8	14.6	.3	1.2	13.4	58.6	7.5	5.9	4.6	51.8
ARIZONA	3.4	3.6	2.8	3.0	.5	.5	3.3	4.7	1.9	2.5	.4	1.2
Phoenix	3.5	3.7	3.0	3.1	.4	.5	3.4	4.5	1.8	2.5	.5	1.1
ARKANSAS	5.2	6.1	3.9	4.7	.8	.9	6.2	6.9	3.3	4.4	1.2	1.2
Fort Smith	5.8	5.2	4.9	4.9	.3	.1	12.5	4.5	2.8	3.6	1.9	.3
Little Rock—North Little Rock ¹	3.2	3.6	2.4	2.5	.7	.9	3.3	5.8	2.1	2.5	.4	2.2
Pine Bluff	4.3	4.0	4.1	3.5	.1	.2	4.0	4.4	2.5	2.1	.8	1.2
CALIFORNIA	4.2	4.5	2.8	3.1	1.2	1.2	3.9	4.1	1.7	1.9	1.2	1.3
COLORADO	4.3	4.1	3.7	3.7	.5	.2	2.8	4.3	1.8	2.8	.3	.6
Denver—Boulder	2.9	3.6	2.5	3.2	.2	.2	2.8	3.6	1.8	2.4	.3	.3
CONNECTICUT	1.9	2.5	1.4	1.9	.3	.5	2.4	3.0	1.0	1.7	.4	.5
Hartford	1.4	1.7	1.2	1.3	.2	.2	1.7	2.8	1.0	1.7	.2	.5
DELAWARE	2.6	8.9	1.4	2.1	.5	6.5	3.1	9.3	1.1	1.6	.8	6.7
Wilmington	2.0	8.2	.9	1.2	.5	6.6	2.3	8.9	.7	1.0	.5	7.1
FLORIDA	4.5	4.8	3.8	4.2	.6	.5	4.5	5.2	2.7	3.4	.9	.8
Fort Lauderdale—Hollywood	4.5	5.4	4.0	5.0	.4	.3	4.8	6.0	3.3	3.8	.3	1.1
Jacksonville	5.7	4.2	4.8	3.2	.9	1.0	6.0	6.0	2.4	2.8	2.2	2.0
Miami	3.9	3.4	3.6	2.9	.3	.4	5.0	4.3	3.1	2.4	1.1	.8
Orlando	4.2	4.4	3.4	3.9	.7	.4	3.0	3.9	2.0	3.1	.3	.1
Pensacola	1.7	1.6	1.5	1.4	.1	.1	1.8	2.0	1.4	1.5	.1	.3
Tampa—St. Petersburg	6.9	6.4	5.6	5.8	1.2	.5	6.1	6.2	4.3	4.7	.7	.4
West Palm Beach—Boca Raton	4.1	4.2	3.7	3.9	.4	.2	4.6	4.5	2.5	2.9	1.2	.7
GEORGIA	3.7	4.1	3.0	3.3	.4	.5	3.5	4.0	2.1	2.7	.5	.5
Atlanta ¹	3.3	2.9	2.7	2.2	.5	.4	3.0	2.6	1.4	1.6	.7	.2
HAWAII ²	1.8	2.4	1.1	1.6	.6	.6	2.5	2.3	.7	1.3	1.3	.6
IDAHO ³	3.5	2.9	2.3	2.3	1.1	.5	3.0	6.1	1.5	2.4	.8	3.0
ILLINOIS:												
Chicago SMSA	2.5	3.1	1.8	2.6	.5	.6	3.2	3.9	1.2	1.8	.8	.8
Davenport—Rock Island—Moline	1.3	2.9	.7	1.2	.4	1.2	1.4	5.1	.4	1.1	.4	2.8
Decatur	3.5	2.0	.3	.4	2.8	1.4	2.6	3.0	.5	.3	1.2	1.1
Peoria	1.5	1.3	.8	.6	.6	.6	1.0	2.1	.2	.5	.4	1.2
Rockford	1.9	2.5	1.1	1.4	.7	.8	2.0	2.9	.9	1.4	.5	.7
INDIANA ⁴	2.3	2.6	1.1	1.3	.9	.8	3.6	4.8	.8	1.5	2.0	2.5
Indianapolis ⁵	2.4	2.5	1.4	1.5	.6	.6	4.8	6.5	.9	1.5	3.0	4.0
IOWA	2.3	2.6	1.1	1.4	.9	.9	2.6	3.2	.8	1.4	1.3	1.2
Cedar Rapids	2.6	1.8	.6	.5	1.6	.7	2.0	3.1	.6	.7	.7	1.8
Des Moines	2.1	2.0	1.4	1.1	.3	.4	4.3	3.3	1.2	1.1	2.5	.9
KANSAS	3.5	3.8	2.7	3.0	.7	.6	4.0	5.6	2.4	3.1	.8	.8
Topeka	2.4	2.8	1.2	1.7	1.2	1.1	5.9	6.0	1.3	3.0	3.4	2.5
Wichita	3.0	2.7	2.4	2.1	.5	.4	3.2	4.0	2.0	2.0	.2	.7
KENTUCKY	3.0	5.3	1.5	2.2	1.2	2.6	4.5	6.5	.9	1.3	2.7	3.9
Lexington—Fayette	2.9	3.4	1.1	1.4	.8	1.9	2.7	3.8	.9	1.3	1.3	1.6
Louisville	1.7	7.1	.7	1.0	.4	4.9	5.8	9.9	.6	.7	4.3	7.5
LOUISIANA:												
New Orleans	4.9	4.9	4.5	4.3	.4	.5	5.3	5.9	2.9	3.5	1.0	1.3
MAINE	4.7	5.1	3.2	3.6	1.3	1.2	4.3	6.2	1.9	3.1	1.7	2.2
Portland	2.7	3.0	2.4	2.6	.2	.2	2.5	4.5	1.8	3.4	.3	.6
MARYLAND	3.3	4.2	1.5	2.2	1.2	1.8	4.0	4.7	1.2	1.6	1.8	2.2
Baltimore	3.1	4.4	1.6	2.0	1.3	2.2	3.6	4.3	1.0	1.3	1.6	2.1
MASSACHUSETTS	2.5	3.3	1.8	2.4	.5	.6	2.7	4.0	1.3	2.4	.9	.7
Boston	2.3	2.8	1.9	2.1	.2	.5	2.5	3.9	1.2	2.5	.6	.5

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	
	July 1981	Aug. 1981 ^p	July 1981	Aug. 1981 ^p	July 1981	Aug. 1981 ^p	July 1981	Aug. 1981 ^p	July 1981	Aug. 1981 ^p	July 1981	Aug. 1981 ^p
MICHIGAN	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Detroit.....	1.0	2.5	.2	.6	.5	1.5	.8	3.0	.3	.8	.4	1.5
Filint.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Grand Rapids.....	1.6	2.9	.9	1.1	.4	1.2	3.4	3.7	.9	1.1	1.3	1.6
Lansing—East Lansing.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
MINNESOTA	3.0	4.1	2.2	2.9	.6	.8	2.4	4.1	1.2	2.1	.7	1.4
Minneapolis—St. Paul.....	2.4	3.8	1.9	2.2	.3	1.2	1.9	4.4	1.1	1.9	.3	1.9
MISSISSIPPI:												
Jackson.....	4.8	5.6	3.6	4.6	1.1	.9	4.4	5.2	2.6	3.0	1.3	1.5
MISSOURI	2.8	3.1	1.9	2.3	.8	.6	2.9	3.9	1.3	2.2	.9	1.0
Kansas City.....	2.6	3.1	1.9	2.2	.7	.8	2.8	3.4	1.4	1.8	.8	.9
St. Louis.....	2.0	2.3	1.3	1.5	.6	.7	2.9	3.2	.7	1.6	.6	1.0
MONTANA	2.2	2.2	1.4	1.7	.6	.2	4.1	3.3	1.3	1.9	1.8	1.1
NEBRASKA	2.8	3.5	2.3	2.8	.4	.5	3.0	4.1	1.7	3.1	.7	.4
NEVADA	5.6	(*)	5.1	(*)	.5	(*)	7.5	(*)	4.8	(*)	1.3	(*)
NEW HAMPSHIRE	4.4	4.4	3.1	3.5	.9	.5	4.3	4.3	2.2	2.8	1.2	.5
NEW JERSEY:												
Camden ⁶	2.9	3.7	1.5	1.8	1.3	1.8	4.5	3.3	.6	1.6	2.9	.8
Hackensack.....	3.4	5.2	2.1	3.0	1.1	2.1	6.4	4.7	1.6	2.3	3.8	1.2
Jersey City.....	3.2	4.3	2.2	2.6	.9	1.4	5.1	4.1	.8	1.7	3.3	1.2
New Brunswick—Perth Amboy—Sayreville.....	2.8	4.2	2.2	2.6	.5	1.5	4.8	4.8	1.3	2.1	2.1	1.4
Newark.....	2.5	3.3	1.8	2.2	.5	.7	3.4	5.5	1.1	2.0	1.4	2.5
Paterson—Clifton—Passaic.....	3.7	4.3	2.3	2.7	1.1	1.5	6.3	4.1	1.0	1.8	3.9	1.5
Trenton.....	3.1	4.7	1.8	2.4	1.1	2.1	5.1	4.9	1.3	1.5	3.1	2.4
NEW MEXICO	4.3	7.9	3.6	7.5	.5	.2	4.0	6.8	2.7	3.8	.2	1.8
NEW YORK	3.9	4.3	2.3	2.5	1.4	1.5	4.6	4.3	1.1	1.8	2.5	1.6
Albany—Schenectady—Troy.....	2.8	3.0	1.3	1.5	1.0	.9	2.9	3.3	.8	1.1	1.1	1.4
Binghamton.....	4.5	3.0	2.0	2.3	2.3	.4	4.5	2.6	1.1	1.7	2.4	.2
Buffalo.....	2.5	2.9	1.3	1.3	1.0	1.4	4.9	6.7	.5	1.0	3.5	4.8
Elmira.....	2.8	2.4	1.9	1.5	.7	.6	2.2	2.2	.5	1.2	.9	.2
Monroe County.....	2.2	1.9	1.9	1.5	.2	.2	1.9	2.5	.7	1.3	.7	.7
Nassau—Suffolk ⁸	3.8	4.9	2.9	3.4	.8	1.3	4.7	5.1	1.9	3.1	2.0	.8
New York and Nassau—Suffolk.....	4.2	5.2	2.7	3.0	1.4	2.0	5.6	4.6	1.4	1.9	3.2	1.6
New York SMSA ⁸	4.4	5.2	2.7	2.9	1.6	2.2	5.8	4.5	1.3	1.6	3.5	1.9
New York City ⁹	4.6	5.5	2.8	3.0	1.7	2.4	6.3	4.6	1.4	1.5	3.9	2.0
Rochester.....	3.4	3.1	2.4	2.3	.9	.7	2.4	3.0	.8	1.6	1.0	.8
Syracuse.....	3.9	3.7	3.1	2.3	.5	1.3	3.4	3.4	1.0	2.0	1.5	.5
Utica—Rome.....	2.5	5.2	1.6	2.2	.8	2.7	3.6	3.1	.8	1.2	2.3	1.2
Westchester County ⁷	3.1	3.5	2.3	2.2	.7	1.0	2.8	3.9	1.0	1.6	1.2	1.1
NORTH CAROLINA	3.5	4.4	3.0	3.6	.3	.6	3.6	4.9	2.3	3.2	.4	.8
Charlotte—Gastonia.....	4.5	4.7	4.0	4.2	.3	.3	4.4	5.0	2.7	3.6	.7	.4
Greensboro—Winston-Salem—High Point.....	3.6	4.2	2.9	3.2	.2	.7	3.5	5.5	2.1	3.1	.3	1.5
NORTH DAKOTA	4.1	4.6	3.0	3.1	.9	1.3	5.2	4.7	1.9	3.5	2.5	.4
Fargo—Moorhead.....	4.1	3.7	3.4	2.1	.6	1.4	2.8	3.2	1.4	2.1	.3	.1
OHIO	2.0	2.4	1.0	1.0	(*)	(*)	2.6	3.2	.6	.9	1.3	1.6
Akron.....	1.3	1.5	.7	.8	(*)	(*)	1.4	1.6	.3	.5	.5	.5
Canton.....	2.4	3.4	1.0	1.3	(*)	(*)	2.8	3.0	.9	1.4	.9	.7
Cincinnati.....	1.9	2.0	1.2	1.0	(*)	(*)	2.6	2.1	.8	.9	1.2	.7
Cleveland.....	1.7	2.4	1.0	1.1	(*)	(*)	2.2	3.4	.6	1.0	.8	1.6
Columbus.....	1.9	2.2	1.2	1.2	(*)	(*)	2.4	2.4	.8	1.0	1.0	.7
Dayton.....	2.0	2.3	1.2	1.0	(*)	(*)	2.5	2.3	.7	.9	1.0	.5
Toledo.....	2.0	3.0	.7	1.1	(*)	(*)	3.1	3.2	.4	.8	1.9	1.8
Youngstown—Warren.....	2.6	2.0	1.1	.9	(*)	(*)	3.1	2.6	.5	.8	1.7	1.1
OKLAHOMA	5.8	6.8	5.3	6.1	.4	.5	5.8	7.4	4.3	5.6	.4	.7
Oklahoma City.....	5.3	6.4	4.9	5.5	.4	.8	4.9	6.5	3.6	4.4	.5	1.1
Tulsa.....	6.0	6.9	5.5	6.4	.3	.3	5.5	6.9	3.7	5.0	.4	.4
OREGON ⁴	3.3	3.1	2.0	1.9	1.2	1.1	3.6	4.3	1.2	1.4	1.8	2.4
Eugene—Springfield ⁴	2.8	2.7	1.4	2.1	1.3	.6	2.8	3.9	.8	1.2	1.5	2.2
Portland ⁴	2.9	3.0	1.9	2.0	.9	1.0	3.5	2.8	1.3	1.3	1.7	.9

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER**

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	July 1981	Aug. 1981 ^p	July 1981	Aug. 1981 ^p	July 1981	Aug. 1981 ^p	July 1981	Aug. 1981 ^p	July 1981	Aug. 1981 ^p	July 1981	Aug. 1981 ^p
PENNSYLVANIA	3.4	3.5	1.4	1.7	1.8	1.6	3.7	3.6	0.8	1.4	2.2	1.5
Allentown—Bethlehem—Easton	3.4	3.1	1.4	1.6	1.8	1.2	3.9	3.0	.9	1.3	2.3	.9
Alltoona	3.8	1.4	1.4	1.1	2.3	.2	2.9	2.6	.7	1.5	1.9	.9
Erie	2.7	4.0	1.4	2.8	.8	.9	2.4	3.7	.7	2.0	.9	.4
Harrisburg	3.2	1.9	1.9	1.3	1.1	.4	3.1	3.0	.9	1.3	1.5	1.0
Johnstown	4.8	4.6	1.5	1.2	3.1	2.8	5.7	4.9	.7	.7	4.1	3.1
Lancaster	2.1	2.6	1.2	2.0	.7	.5	2.4	2.5	1.1	1.7	.7	.2
Northeast Pennsylvania	4.1	4.0	1.4	1.9	2.5	1.8	5.3	3.8	1.0	1.6	3.8	1.6
Philadelphia SMSA	3.1	3.2	1.5	1.7	1.4	1.3	3.6	3.4	.9	1.4	2.0	1.1
Pittsburgh	3.0	3.1	.7	.8	1.9	2.0	3.1	3.8	.3	.8	1.9	2.1
Reading	4.2	4.9	1.9	2.3	2.2	2.5	4.2	3.3	1.2	1.6	2.4	.9
Scranton	3.9	5.5	1.4	2.3	2.4	3.1	6.2	3.1	1.1	1.6	4.8	1.1
Wilkes-Barre—Hazleton	4.5	3.2	1.5	2.0	2.8	.9	5.0	4.1	1.1	1.4	3.4	1.9
Williamsport	1.4	1.7	.7	.8	.6	.8	1.7	2.5	.2	.8	.9	1.4
York	4.3	3.8	1.8	2.1	2.1	1.4	3.2	3.5	1.1	2.1	1.4	.6
RHODE ISLAND	5.8	5.0	2.7	3.7	2.7	1.1	6.2	4.0	1.6	2.1	3.6	1.0
Providence—Warwick—Pawtucket	5.9	5.1	2.8	3.6	2.7	1.2	6.4	4.0	1.6	2.0	3.8	1.1
SOUTH CAROLINA	4.0	4.0	2.6	2.9	1.0	.7	4.2	3.9	1.9	2.4	1.3	.6
Charleston—North Charleston	4.0	3.3	3.6	2.7	.4	.4	5.0	4.6	2.3	2.8	1.2	.6
Columbia	3.6	5.1	3.2	4.3	.3	.5	3.2	3.6	2.2	2.3	.2	.5
Greenville—Spartanburg	3.5	4.2	2.8	3.3	.5	.6	3.8	4.0	2.0	2.5	.9	.5
SOUTH DAKOTA	3.3	2.6	2.2	1.7	1.0	.7	3.7	5.2	1.2	3.0	2.0	1.7
Sioux Falls	3.0	1.5	.6	.7	2.3	.7	5.4	2.2	.8	1.4	4.3	.6
TENNESSEE:												
Memphis	2.6	2.6	2.0	1.6	.4	.7	2.2	2.7	1.0	1.5	.4	.3
TEXAS:												
Dallas—Fort Worth	4.5	4.7	4.1	4.3	.3	.3	6.0	5.4	3.5	3.9	1.5	.5
Houston	4.2	4.5	3.9	4.2	.2	.1	4.0	4.7	2.7	3.3	.3	.3
San Antonio	5.7	4.9	5.4	4.3	.3	.5	5.2	4.8	3.9	3.7	.2	.4
UTAH ³	3.2	3.9	2.7	3.2	.1	.5	3.5	4.4	1.9	2.7	1.0	.9
Salt Lake City—Ogden ³	2.8	3.1	2.6	2.8	.1	.3	3.5	3.6	2.0	2.3	.8	.5
VERMONT	4.0	3.2	2.1	2.2	1.6	.8	3.5	3.8	1.2	1.6	1.6	1.6
Burlington	2.4	2.1	2.0	1.5	.1	.2	1.5	2.3	.5	.7	.6	1.3
Springfield	3.7	2.6	1.3	1.4	2.4	.7	3.0	2.9	1.1	1.4	.8	.7
VIRGINIA	2.9	3.1	2.0	1.9	.7	.9	2.8	3.3	1.4	1.6	.6	.8
Richmond	2.7	2.6	1.7	1.4	.4	.5	2.1	2.0	.9	.7	.2	.2
WASHINGTON:												
Seattle—Everett ¹²	2.0	2.2	1.4	1.4	.5	.7	2.4	2.4	1.0	1.0	.7	.7
WEST VIRGINIA	2.6	2.1	1.4	1.2	.8	.5	4.2	3.3	1.0	1.0	1.9	1.8
WISCONSIN	3.4	2.4	1.6	1.3	1.5	.9	2.6	3.1	.8	1.3	1.1	1.1
Milwaukee	3.1	2.7	1.1	1.0	1.6	1.2	2.9	3.2	.6	1.1	1.4	1.1
WYOMING	6.0	6.3	4.8	5.5	1.1	.7	4.2	8.8	2.5	4.0	.9	3.2

¹ Excludes agricultural chemicals, and miscellaneous manufacturing.

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

³ Excludes canning and preserving, and sugar.

⁴ Excludes canning and preserving.

⁵ Excludes canning and preserving, and newspapers.

⁶ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

⁷ Subarea of Rochester Standard Metropolitan Statistical Area.

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

⁹ Subarea of New York Standard Metropolitan Statistical Area.

¹⁰ Excludes new-hire rate for transportation equipment.

¹¹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

¹² Excludes canning and preserving, printing and publishing.

^p = preliminary.

* Not available.

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

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
	SEPT. 1980	AUG. 1981	SEPT. 1981P	Number			Percent of labor force		
				SEPT. 1980	AUG. 1981	SEPT. 1981P	SEPT. 1980	AUG. 1981	SEPT. 1981P
ALABAMA	1,652.9	1,625.7	1,625.8	151.0	152.4	159.4	9.1	9.4	9.8
Birmingham	384.0	375.3	370.9	39.5	36.8	35.9	10.3	9.8	9.7
Huntsville	138.9	138.0	138.2	13.0	12.3	13.0	9.4	8.9	9.4
Mobile	181.9	183.9	182.6	14.5	15.8	16.6	8.0	8.6	9.1
Montgomery	120.5	117.2	117.7	9.4	9.6	10.5	7.8	8.2	8.9
Tuscaloosa	52.5	51.0	50.9	4.2	4.5	4.6	8.0	8.8	9.0
ALASKA	192.8	203.5	199.0	15.0	16.3	15.8	7.8	8.0	8.0
ARIZONA	1,126.7	1,141.8	1,167.8	78.9	71.0	69.2	7.0	6.2	5.9
Phoenix	686.2	695.9	711.4	42.0	35.3	34.9	6.1	5.1	4.9
Tucson	204.9	209.6	214.9	12.8	10.9	10.6	6.3	5.2	4.9
ARKANSAS	993.6	1,024.7	1,032.6	71.4	85.4	81.9	7.2	8.3	7.9
Fayetteville-Springdale	77.1	79.0	79.9	3.9	4.2	3.8	5.0	5.4	4.8
Fort Smith ¹	83.4	85.8	86.2	8.3	7.0	7.2	9.9	8.1	8.3
Little Rock—North Little Rock	188.8	197.0	197.4	11.2	14.7	14.4	5.9	7.5	7.3
Pine Bluff	40.3	41.1	41.8	2.7	4.0	3.9	6.7	9.9	9.3
CALIFORNIA ²	11,199.0	11,535.5	11,320.8	755.0	792.5	788.4	6.7	6.9	7.0
Anaheim—Santa Ana—Garden Grove	1,081.9	1,148.6	1,128.1	48.3	52.9	52.5	4.5	4.6	4.7
Bakersfield	180.7	194.3	189.5	13.0	14.8	15.4	7.2	7.6	8.1
Fresno	298.4	282.4	295.7	20.8	23.4	22.8	7.0	8.3	7.7
Los Angeles—Long Beach ²	3,587.0	3,601.0	3,508.0	268.0	236.0	256.0	7.5	6.5	7.3
Modesto	132.6	141.1	135.8	11.9	15.2	13.4	8.9	10.8	9.9
Oxnard—Simi Valley—Ventura	215.5	241.9	237.3	17.1	20.2	19.4	8.0	8.4	8.2
Riverside—San Bernardino—Ontario	565.5	586.2	581.9	48.0	52.3	50.0	8.5	8.9	8.6
Sacramento	468.5	487.6	478.0	33.4	38.3	34.9	7.1	7.9	7.3
Salinas—Seaside—Monterey	131.8	134.2	132.4	9.8	10.3	9.1	7.4	7.7	6.9
San Diego	747.6	778.2	763.7	49.2	52.7	51.7	6.6	6.8	6.8
San Francisco—Oakland	1,595.7	1,673.0	1,636.6	85.8	97.4	90.4	5.4	5.8	5.5
San Jose	742.0	784.6	768.4	34.1	45.1	45.1	4.6	5.7	5.9
Santa Barbara—Santa Maria—Lompoc	144.9	150.5	147.2	7.5	8.7	8.2	5.2	5.8	5.5
Santa Rosa	132.5	135.9	134.2	8.9	10.0	9.3	6.7	7.3	6.9
Stockton	171.6	170.4	174.5	12.9	15.9	14.5	7.5	9.3	8.3
Vallejo—Fairfield—Napa	127.1	135.3	131.7	8.5	9.5	9.1	6.7	7.0	6.9
COLORADO	1,495.3	1,514.4	1,517.6	82.1	72.1	75.3	5.5	4.8	5.0
Denver—Boulder	882.6	893.0	898.3	46.2	40.2	42.0	5.2	4.5	4.7
CONNECTICUT	1,610.9	1,597.8	1,593.2	92.8	100.2	96.1	5.8	6.3	6.0
Bridgeport	199.5	194.9	194.8	11.8	11.8	11.7	5.9	6.1	6.0
Hartford	387.7	386.2	385.0	19.4	23.3	21.7	5.0	6.0	5.6
New Britain	77.1	76.9	77.0	4.7	6.0	5.3	6.1	7.8	6.8
New Haven—West Haven	207.0	199.9	201.9	12.2	13.4	13.0	5.9	6.7	6.5
Stamford	120.6	122.5	121.8	4.8	4.7	5.2	4.0	3.9	4.2
Waterbury	110.0	107.9	106.8	8.4	7.8	7.4	7.6	7.3	6.9
DELAWARE	279.2	290.1	280.2	19.7	25.8	19.4	7.1	8.9	6.9
Wilmington ¹	246.2	254.3	247.1	17.1	24.5	17.0	6.9	9.6	6.9
DISTRICT OF COLUMBIA	315.4	305.8	295.3	23.2	30.8	28.0	7.4	10.1	9.5
Washington SMSA ¹	1,634.9	1,660.6	1,646.6	71.2	86.5	87.0	4.4	5.2	5.3
FLORIDA ²	3,905.0	4,177.8	4,135.1	273.0	278.5	331.6	7.0	6.7	8.0
Bradenton	55.8	57.2	56.2	3.4	3.7	3.9	6.2	6.4	7.0
Daytona Beach	94.0	101.7	99.4	6.1	6.0	7.1	6.5	5.9	7.2
Fort Lauderdale—Hollywood	418.0	442.6	435.8	21.1	22.8	26.6	5.1	5.2	6.1
Fort Myers—Cape Coral	75.1	79.4	81.3	4.6	4.6	5.4	6.1	5.7	6.7
Gainesville	64.8	73.7	72.5	3.3	3.1	3.4	5.1	4.2	4.7
Jacksonville	299.7	319.3	319.4	18.6	18.4	23.6	6.2	5.8	7.4
Lakeland—Winter Haven	125.3	133.9	134.5	18.2	20.4	24.1	14.5	15.2	17.9
Melbourne—Titusville—Cocoa	106.3	114.9	114.0	8.1	8.8	10.6	7.6	7.7	9.3
Miami	728.3	758.6	752.1	51.4	48.6	56.7	7.1	6.4	7.5
Orlando	316.3	348.6	340.5	22.1	23.3	27.2	7.0	6.7	8.0
Panama City	37.4	39.4	39.2	3.6	3.2	4.0	9.5	8.1	10.2
Pensacola	106.7	116.7	115.1	6.4	6.4	7.8	6.0	5.5	6.7
Sarasota	66.9	74.9	72.9	3.6	3.3	4.6	5.3	4.4	6.3
Tallahassee	76.4	80.0	79.4	3.5	3.4	4.2	4.5	4.2	5.2
Tampa—St. Petersburg	600.5	646.4	641.2	36.6	36.4	44.6	6.1	5.6	7.0
West Palm Beach—Boca Raton	230.8	245.3	244.6	17.0	18.7	21.5	7.3	7.6	8.8

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	SEPT. 1980	AUG. 1981	SEPT. 1981P	SEPT. 1980	AUG. 1981	SEPT. 1981P	SEPT. 1980	AUG. 1981	SEPT. 1981P
GEORGIA	2,405.4	2,462.0	2,462.9	157.8	147.1	151.0	6.6	6.0	6.1
Albany	49.4	52.0	51.8	4.3	3.9	4.0	8.7	7.6	7.6
Atlanta	965.0	998.5	997.5	54.6	54.9	54.6	5.7	5.5	5.5
Augusta	123.0	125.8	125.9	9.2	7.9	8.1	7.5	6.3	6.4
Columbus ¹	82.7	83.8	83.2	6.6	6.3	7.0	7.9	7.6	8.4
Macon	98.2	101.5	100.6	6.2	6.0	6.1	6.4	5.9	6.0
Savannah	86.1	90.5	90.7	6.2	5.0	5.5	7.2	5.5	6.1
HAWAII	391.0	411.2	401.2	21.1	21.1	21.2	5.4	5.1	5.3
Honolulu	304.7	321.5	314.2	15.7	15.3	15.6	5.2	4.7	5.0
IDAHO	431.9	434.0	429.9	28.9	28.6	28.5	6.7	6.6	6.6
Boise City	89.4	88.5	87.6	5.1	4.7	4.6	5.7	5.3	5.3
ILLINOIS²	5,414.0	5,580.3	5,491.7	464.0	448.7	437.7	8.6	8.0	8.0
Bloomington—Normal	59.6	60.3	61.2	3.9	3.5	3.2	6.6	5.8	5.3
Champaign—Urbana—Rantoul	81.9	81.2	84.3	4.5	4.5	4.3	5.5	5.6	5.1
Chicago	3,394.5	3,505.8	3,446.5	281.7	278.0	273.3	8.3	7.9	7.9
Davenport—Rock Island—Moline ¹	184.7	190.9	186.9	13.2	16.4	15.6	7.2	8.6	8.4
Decatur	60.0	62.2	61.3	7.0	6.1	6.4	11.7	9.9	10.4
Kankakee	41.4	41.5	41.2	4.8	4.8	4.7	11.6	11.6	11.4
Peoria	171.9	174.4	172.4	13.8	12.3	11.9	8.0	7.0	6.9
Rockford	134.0	135.7	135.0	14.1	12.2	12.0	10.5	9.0	8.9
Springfield	95.0	103.8	97.6	6.9	6.1	5.9	7.2	5.9	6.1
INDIANA	2,629.3	2,602.6	2,617.6	255.9	227.2	236.9	9.7	8.7	9.1
Anderson	57.4	54.8	55.4	8.9	6.0	6.4	15.4	10.9	11.5
Elkhart	68.0	66.9	66.8	7.0	5.1	5.4	10.2	7.6	8.1
Evansville ¹	145.3	149.3	149.0	10.0	11.1	13.2	6.9	7.4	8.9
Fort Wayne	198.0	193.2	193.4	21.1	15.3	16.6	10.6	7.9	8.6
Gary—Hammond—East Chicago	299.6	295.9	291.9	38.3	30.6	30.3	12.8	10.3	10.4
Indianapolis	605.1	614.4	614.4	45.6	48.2	51.7	7.5	7.8	8.4
Lafayette—West Lafayette	63.2	59.3	64.1	3.9	3.5	4.0	6.1	5.9	6.3
Muncie	57.6	55.5	57.7	6.0	6.2	6.4	10.5	11.1	11.0
South Bend	138.0	133.6	133.6	12.7	10.4	10.8	9.2	7.8	8.1
Terre Haute	82.7	77.3	79.8	6.1	6.6	7.0	7.3	8.5	8.7
IOWA	1,457.0	1,433.6	1,428.9	80.7	88.3	84.2	5.5	6.2	5.9
Cedar Rapids	90.6	86.7	85.7	6.9	6.3	6.3	7.7	7.3	7.3
Des Moines	184.4	181.4	181.2	10.8	11.7	11.6	5.8	6.4	6.4
Dubuque	45.8	44.7	44.8	3.9	4.0	4.0	8.5	8.9	8.9
Sioux City ¹	54.0	52.9	52.9	3.2	3.8	3.6	6.0	7.1	6.8
Waterloo—Cedar Falls	69.5	67.2	68.8	4.9	5.3	5.1	7.0	7.9	7.3
KANSAS	1,201.2	1,224.3	1,222.2	53.3	49.6	47.3	4.4	4.1	3.9
Lawrence	35.9	34.6	36.3	1.6	1.5	1.6	4.5	4.4	4.4
Topeka	95.3	97.7	96.8	5.6	5.0	4.9	5.9	5.2	5.1
Wichita	225.6	235.4	232.8	9.6	10.4	9.2	4.2	4.4	3.9
KENTUCKY	1,645.7	1,665.4	1,661.3	136.0	118.6	108.6	8.3	7.1	6.5
Lexington—Fayette	176.0	179.5	181.0	8.0	7.2	7.6	4.5	4.0	4.2
Louisville ¹	433.0	443.7	437.6	36.7	37.6	30.0	8.5	8.5	6.9
Owensboro	42.5	43.7	43.3	3.0	2.7	2.7	7.0	6.1	6.2
LOUISIANA	1,758.9	1,793.5	1,803.0	116.2	149.8	143.6	6.6	8.4	8.0
Alexandria	70.4	69.9	70.9	6.2	7.4	6.8	8.7	10.6	9.7
Baton Rouge	223.3	230.9	231.9	16.0	23.8	22.7	7.2	10.3	9.8
Lafayette	81.9	87.4	88.8	2.9	3.5	3.8	3.6	4.0	4.3
Lake Charles	74.5	75.5	75.3	4.4	6.3	6.4	5.9	8.4	8.5
Monroe	54.3	52.3	53.0	4.6	5.5	5.0	8.6	10.5	9.4
New Orleans	479.2	482.8	480.9	29.3	37.7	36.2	6.1	7.8	7.5
Shreveport	155.6	158.0	159.4	10.7	12.3	11.7	6.9	7.8	7.3
MAINE	520.0	523.5	519.9	35.7	31.6	31.4	6.9	6.0	6.0
Lewiston—Auburn	38.8	37.8	37.6	2.7	2.5	2.7	6.9	6.7	7.1
Portland	90.9	91.7	90.5	5.0	4.6	4.3	5.5	5.1	4.7
MARYLAND	2,119.2	2,154.0	2,154.6	132.0	155.3	154.6	6.2	7.2	7.2
Baltimore	1,049.9	1,048.1	1,052.9	76.9	89.4	89.0	7.3	8.5	8.4

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		
	SEPT. 1980	AUG. 1981	SEPT. 1981P	SEPT. 1980	AUG. 1981	SEPT. 1981P	SEPT. 1980	AUG. 1981	SEPT. 1981P
MASSACHUSETTS¹	2,914.0	3,040.2	2,950.1	173.0	218.4	192.9	5.9	7.2	6.5
Boston	1,414.3	1,493.8	1,447.6	78.1	100.2	86.9	5.5	6.7	6.0
Brockton	82.8	83.7	80.8	6.1	7.6	6.7	7.3	9.1	8.3
Fall River ¹	73.6	76.2	73.4	5.7	6.2	5.8	7.8	8.2	7.9
Lawrence—Haverhill ¹	143.0	147.3	144.1	9.3	10.3	10.0	6.5	7.0	6.9
Lowell	122.0	127.2	123.0	7.8	9.7	8.7	6.4	7.6	7.1
New Bedford	80.3	84.0	81.2	6.0	7.7	7.4	7.5	9.2	9.1
Springfield—Chicopee—Holyoke	270.9	281.1	283.9	16.0	19.8	17.5	5.9	7.0	6.2
Worcester	198.4	200.1	195.7	11.1	13.8	12.4	5.6	6.9	6.3
MICHIGAN²	4,285.0	4,466.7	4,374.2	524.0	492.0	468.5	12.2	11.0	10.7
Ann Arbor	142.0	147.5	146.8	11.5	11.1	11.1	8.1	7.5	7.5
Battle Creek	81.0	84.1	81.5	9.5	7.7	7.4	11.7	9.2	9.1
Bay City	53.6	55.1	53.8	8.3	6.1	5.9	15.4	11.1	11.0
Detroit	2,019.8	2,079.4	2,057.6	258.8	236.6	238.7	12.8	11.4	11.6
Flint	226.3	242.3	232.3	40.0	37.5	31.7	17.7	15.5	13.7
Grand Rapids	315.2	335.9	331.5	25.6	26.3	27.6	8.1	7.8	8.3
Jackson	65.8	68.6	66.4	7.8	6.5	6.2	11.8	9.4	9.4
Kalamazoo—Portage	135.6	138.4	138.5	11.3	10.7	10.8	8.4	7.7	7.8
Lansing—East Lansing	234.8	260.5	242.4	25.4	38.6	22.2	10.8	14.8	9.2
Muskegon—Norton Shores—Muskegon Heights	78.9	81.8	79.6	11.8	8.7	9.0	14.9	10.6	11.3
Saginaw	100.0	106.1	102.9	13.7	13.2	12.2	13.7	12.4	11.9
MINNESOTA	2,129.4	2,212.5	2,203.8	111.7	96.8	101.4	5.2	4.4	4.6
Duluth—Superior ¹	116.6	115.2	115.6	9.9	7.1	7.1	8.5	6.2	6.1
Minneapolis—St. Paul	1,115.1	1,178.3	1,183.3	51.3	46.1	50.5	4.6	3.9	4.3
Rochester	55.7	59.3	59.0	2.3	2.1	2.2	4.2	3.5	3.8
St. Cloud	75.4	75.9	75.6	5.0	4.1	4.2	6.7	5.4	5.6
MISSISSIPPI	1,037.1	1,003.0	1,019.3	76.5	82.8	84.5	7.4	8.3	8.3
Jackson	154.7	149.9	150.5	8.7	9.4	9.4	5.6	6.3	6.2
MISSOURI	2,315.2	2,366.1	2,347.8	161.3	160.4	148.8	7.0	6.8	6.3
Kansas City ¹	684.4	705.7	695.9	45.2	44.0	42.9	6.6	6.2	6.2
St. Joseph	45.2	45.6	44.8	3.1	3.4	3.3	6.8	7.4	7.4
St. Louis ¹	1,084.4	1,126.3	1,105.3	90.2	88.3	81.5	8.3	7.8	7.4
Springfield	104.7	108.8	108.4	6.1	5.2	5.3	5.8	4.8	4.9
MONTANA	381.5	404.3	390.0	18.5	23.8	21.4	4.8	5.9	5.5
Billings	57.7	59.6	58.8	2.3	2.7	2.2	4.0	4.6	3.7
Great Falls	34.8	36.8	35.6	2.1	2.5	2.2	6.0	6.9	6.1
NEBRASKA	774.7	793.8	778.1	28.1	27.5	26.5	3.6	3.5	3.4
Lincoln	111.7	110.6	111.4	3.7	3.9	3.9	3.4	3.6	3.5
Omaha ¹	278.2	280.9	281.2	14.4	14.7	14.6	5.2	5.2	5.2
NEVADA	382.3	399.1	401.3	23.3	24.5	26.3	6.1	6.1	6.6
Las Vegas	209.4	219.4	222.1	15.3	15.4	16.7	7.3	7.0	7.5
Reno	108.6	110.2	110.7	4.7	5.1	5.4	4.3	4.6	4.9
NEW HAMPSHIRE	466.6	479.7	476.1	21.3	21.0	21.8	4.6	4.4	4.6
Manchester	81.6	82.0	82.2	4.0	4.0	4.0	4.9	4.8	4.9
Nashua	78.3	80.5	80.7	3.5	3.8	4.2	4.5	4.8	5.3
NEW JERSEY²	3,530.0	3,556.7	3,474.6	250.0	234.8	218.7	7.1	6.6	6.3
Atlantic City	107.1	119.8	112.5	6.7	7.6	7.3	6.3	6.3	6.4
Jersey City	238.7	235.3	231.5	23.9	23.1	22.5	10.0	9.8	9.7
Long Branch—Asbury Park	227.7	245.5	235.1	14.7	15.5	14.3	6.5	6.3	6.1
New Brunswick—Perth Amboy—Sayreville	324.9	321.8	315.0	20.6	21.5	18.2	6.3	6.7	5.8
Newark	956.8	959.1	941.8	70.2	67.7	58.7	7.3	7.1	6.2
Paterson—Clifton—Passaic	207.5	206.5	203.3	19.5	16.5	16.3	9.4	8.0	8.0
Trenton	158.6	158.1	157.9	10.1	8.0	7.7	6.4	5.0	4.9
Vineland—Millville—Bridgeton	58.7	59.1	56.8	5.7	5.7	5.5	9.7	9.7	9.7
NEW MEXICO	546.6	561.8	565.2	40.6	38.8	37.8	7.4	6.9	6.7
Albuquerque	202.5	208.8	210.3	16.8	15.0	14.9	8.3	7.2	7.1

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	SEPT. 1980	AUG. 1981	SEPT. 1981P	SEPT. 1980	AUG. 1981	SEPT. 1981P	SEPT. 1980	AUG. 1981	SEPT. 1981P
NEW YORK²	7,848.0	8,053.6	7,855.0	564.0	567.5	544.3	7.2	7.0	6.9
Albany—Schenectady—Troy.....	372.8	386.8	372.0	19.0	21.4	19.6	5.1	5.5	5.3
Binghamton ¹	138.4	144.9	141.7	8.6	8.6	8.0	6.2	5.9	5.6
Buffalo.....	563.4	583.3	560.1	50.7	58.7	50.8	9.0	10.1	9.1
Elmira.....	39.0	41.0	39.6	2.6	2.9	2.5	6.7	7.1	6.2
Nassau-Suffolk.....	1,294.8	1,357.8	1,312.9	72.4	81.9	72.6	5.6	6.0	5.5
New York.....	3,532.2	3,553.2	3,511.8	290.8	264.8	274.4	8.2	7.5	7.8
New York City ²	2,924.0	2,919.0	2,898.0	264.0	235.0	245.0	9.0	8.1	8.4
Poughkeepsie.....	106.6	112.3	110.6	5.1	5.8	6.1	4.8	5.2	5.5
Rochester.....	463.5	484.2	467.5	24.3	27.3	24.9	5.2	5.6	5.3
Syracuse.....	299.1	306.2	301.6	19.6	19.3	18.0	6.6	6.3	6.0
Utica—Rome.....	135.8	140.6	134.7	9.9	9.5	8.2	7.3	6.8	6.1
NORTH CAROLINA	2,766.9	2,821.7	2,810.2	183.0	161.3	150.7	6.6	5.7	5.4
Asheville.....	82.9	86.6	84.9	5.2	4.7	4.5	6.3	5.4	5.3
Charlotte—Gastonia.....	348.9	356.5	358.0	18.3	16.6	17.0	5.2	4.7	4.8
Greensboro—Winston-Salem—High Point.....	417.0	429.9	432.4	25.0	24.0	23.7	6.0	5.6	5.5
Raleigh—Durham.....	292.2	292.3	296.1	14.0	12.6	11.7	4.8	4.3	4.0
NORTH DAKOTA	321.0	339.6	321.2	13.8	14.1	12.1	4.3	4.1	3.8
Fargo—Moorhead ¹	70.6	74.4	72.6	3.4	3.6	3.2	4.8	4.8	4.4
OHIO²	5,180.0	5,189.2	5,104.1	461.0	487.7	511.4	8.9	9.4	10.0
Akron.....	309.4	304.8	293.2	28.0	30.1	29.3	9.0	9.9	10.0
Canton.....	190.3	189.7	187.3	20.0	17.4	20.0	10.5	9.2	10.7
Cincinnati ¹	688.7	697.6	692.6	51.3	58.8	63.8	7.5	8.4	9.2
Cleveland.....	959.6	N.A.	940.1	77.2	N.A.	83.4	8.0	N.A.	8.9
Columbus.....	567.2	579.5	572.4	34.6	44.6	49.6	6.1	7.7	8.7
Dayton.....	396.0	394.7	N.A.	31.3	33.8	N.A.	7.9	8.6	N.A.
Toledo ¹	370.5	372.2	N.A.	37.7	39.8	N.A.	10.2	10.7	N.A.
Youngstown—Warren.....	242.1	234.2	231.8	31.2	27.4	25.8	12.9	11.7	11.1
OKLAHOMA	1,334.7	1,396.1	1,407.7	64.3	39.6	45.3	4.8	2.8	3.2
Oklahoma City.....	408.4	434.9	440.5	18.6	11.5	14.6	4.6	2.6	3.3
Tulsa.....	327.5	348.0	347.4	14.5	9.6	11.2	4.4	2.7	3.2
OREGON	1,276.1	1,327.4	1,327.7	96.6	121.0	119.3	7.6	9.1	9.0
Eugene—Springfield.....	133.1	139.0	139.1	12.1	15.1	15.0	9.1	10.8	10.8
Portland ¹	621.1	646.0	644.5	37.6	50.0	48.1	6.1	7.7	7.5
Salem.....	123.1	127.0	125.8	7.7	9.4	9.4	6.2	7.4	7.5
PENNSYLVANIA²	5,382.0	5,529.7	5,394.3	427.0	426.7	441.4	7.9	7.7	8.2
Allentown—Bethlehem—Easton ¹	303.8	311.0	307.2	21.8	23.7	22.6	7.2	7.6	7.4
Alltoona.....	60.4	58.7	57.7	5.7	6.3	7.2	9.4	10.8	12.4
Erie.....	127.5	125.7	124.1	11.8	11.3	11.8	9.3	9.0	9.5
Harrisburg.....	220.5	236.0	228.8	13.0	13.4	13.6	5.9	5.7	5.9
Johnstown.....	109.4	107.3	104.4	13.1	11.7	12.2	11.9	10.9	11.6
Lancaster.....	178.3	187.8	181.2	9.9	9.1	8.9	5.6	4.8	4.9
Northeast Pennsylvania.....	286.1	293.4	280.2	26.6	27.4	25.3	9.3	9.3	9.0
Philadelphia ¹	2,136.2	2,182.8	2,133.7	150.7	166.0	169.7	7.1	7.6	8.0
Pittsburgh.....	1,019.5	1,052.5	1,027.5	80.7	66.3	73.9	7.9	6.3	7.2
Reading.....	155.7	161.5	159.6	11.6	11.3	11.3	7.4	7.0	7.1
Williamsport.....	53.3	53.7	52.7	5.5	6.0	6.2	10.4	11.1	11.8
York.....	176.4	182.4	180.1	11.7	12.7	13.5	6.6	7.0	7.5
RHODE ISLAND	464.8	467.8	468.3	29.9	34.5	30.0	6.4	7.4	6.4
Providence—Warwick—Pawtucket ¹	459.1	462.2	462.2	30.5	35.3	30.2	6.6	7.6	6.5
SOUTH CAROLINA	1,309.5	1,349.7	1,350.9	95.2	96.9	102.1	7.3	7.2	7.6
Charleston—North Charleston.....	154.9	163.8	163.7	11.3	11.2	12.2	7.3	6.8	7.4
Columbia.....	172.3	173.1	176.7	8.8	10.0	10.1	5.1	5.8	5.7
Greenville—Spartanburg.....	259.5	267.4	269.0	16.1	17.1	17.9	6.2	6.4	6.6
SOUTH DAKOTA	345.0	351.3	345.0	14.7	15.4	14.5	4.3	4.4	4.2
Rapid City.....	42.7	43.8	44.0	2.1	1.9	2.2	4.9	4.3	5.0
Sioux Falls.....	63.2	62.9	62.1	2.8	2.8	3.1	4.4	4.5	5.0
TENNESSEE	2,026.2	2,077.7	2,092.3	143.7	167.2	167.8	7.1	8.0	8.0
Chattanooga ¹	188.4	191.7	191.7	12.7	14.7	14.3	6.7	7.7	7.4
Knoxville.....	211.3	223.1	223.3	11.6	15.4	16.0	5.5	6.9	7.2
Memphis ¹	391.4	405.4	407.3	23.3	33.1	32.8	6.0	8.2	8.1
Nashville—Davidson.....	414.1	419.0	419.8	23.9	26.4	25.1	5.8	6.3	6.0

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	SEPT. 1980	AUG. 1981	SEPT. 1981P	SEPT. 1980	AUG. 1981	SEPT. 1981P	SEPT. 1980	AUG. 1981	SEPT. 1981P
TEXAS ¹	6,494.0	6,681.3	6,722.5	295.0	383.4	354.7	4.5	5.7	5.3
Amarillo	86.7	89.0	91.2	3.0	4.3	5.8	3.4	4.9	6.4
Austin	256.3	261.0	263.2	8.1	10.2	9.1	3.2	3.9	3.5
Beaumont—Port Arthur—Orange	169.9	170.5	170.4	9.7	12.8	10.8	5.7	7.5	6.4
Corpus Christi	142.4	147.1	147.3	7.5	10.1	8.7	5.3	6.9	5.9
Dallas—Fort Worth	1,552.8	1,611.6	1,625.3	62.4	85.5	77.4	4.0	5.3	4.8
El Paso	173.9	176.4	179.3	14.0	16.7	17.1	8.1	9.5	9.5
Galveston—Texas City	83.5	86.9	85.7	4.7	7.0	5.8	5.7	8.0	6.7
Houston	1,496.5	1,561.7	1,571.5	55.2	74.9	72.8	3.7	4.8	4.6
Lubbock	101.1	100.7	101.5	3.7	4.9	4.5	3.6	4.9	4.4
San Antonio	430.3	439.2	440.9	24.8	32.3	29.2	5.8	7.3	6.6
Waco	80.7	80.9	82.5	3.8	4.5	4.1	4.7	5.6	5.0
Wichita Falls	61.0	62.3	63.7	2.0	2.2	2.6	3.3	3.6	4.1
UTAH	621.1	610.4	617.2	38.9	35.3	36.6	6.3	5.8	5.9
Salt Lake City—Ogden	402.3	400.9	402.7	24.7	23.2	23.8	6.1	5.8	5.9
VERMONT	246.2	255.8	257.3	14.5	11.8	10.7	5.9	4.6	4.2
VIRGINIA	2,555.6	2,551.9	2,564.9	127.8	138.4	142.6	5.0	5.4	5.6
Lynchburg	78.0	74.6	75.7	4.2	3.8	3.6	5.4	5.1	4.8
Newport News—Hampton	170.7	173.9	173.1	8.8	9.8	10.2	5.2	5.6	5.9
Norfolk—Virginia Beach—Portsmouth ¹	329.4	337.7	337.1	18.5	20.0	20.9	5.6	5.9	6.2
Petersburg—Colonial Heights—Hopewell	61.2	57.7	59.2	3.9	4.4	4.6	6.4	7.6	7.8
Richmond	333.4	331.4	335.7	12.2	13.3	14.2	3.7	4.0	4.2
Roanoke	112.9	110.2	110.5	5.5	5.7	6.1	4.8	5.2	5.6
WASHINGTON	1,925.9	1,906.4	1,921.4	132.7	169.9	168.5	6.9	8.9	8.8
Seattle—Everett	844.0	827.6	830.2	51.0	62.6	65.2	6.0	7.6	7.9
Spokane	146.3	143.6	144.4	10.5	12.6	13.2	7.2	8.8	9.1
Tacoma	174.9	171.4	175.5	12.4	15.5	16.1	7.1	9.0	9.2
WEST VIRGINIA	768.4	752.9	760.7	70.1	62.2	60.8	9.1	8.3	8.0
Charleston	129.7	124.6	125.2	10.6	8.6	8.6	8.1	6.9	6.9
Huntington—Ashland ¹	126.8	127.3	126.5	12.6	11.3	11.4	10.0	8.9	9.0
Parkersburg—Marietta ¹	72.9	70.7	70.6	6.5	5.7	5.9	8.9	8.0	8.4
Wheeling ¹	83.3	81.0	80.3	7.8	6.3	6.3	9.4	7.8	7.8
WISCONSIN	2,415.1	2,474.9	2,460.8	159.3	180.9	163.1	6.6	7.3	6.6
Appleton—Oshkosh	149.1	154.0	151.4	10.2	10.9	9.4	6.8	7.1	6.2
Eau Claire	57.4	58.9	59.9	3.3	4.1	3.8	5.8	7.0	6.4
Green Bay	89.7	94.2	93.8	5.4	7.1	6.7	6.1	7.5	7.2
Janesville—Beloit	70.1	74.9	70.3	9.1	10.3	4.9	13.0	13.7	7.0
Kenosha	61.2	59.3	59.8	3.9	4.9	4.5	6.4	8.3	7.5
La Crosse	47.9	50.3	50.6	2.4	3.6	3.2	5.0	7.2	6.3
Madison	184.5	189.4	189.8	8.3	10.1	9.0	4.5	5.3	4.8
Milwaukee	731.5	747.6	747.4	48.6	54.2	53.3	6.6	7.3	7.1
Racine	88.2	89.8	88.9	8.0	8.8	7.0	9.1	9.8	7.9
WYOMING	243.4	256.0	251.8	8.1	9.1	8.8	3.3	3.6	3.5

¹ Includes interstate portion of area located in adjacent State.

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

becomes available. Data refer to place of residence.

p = preliminary.

N.A. = not available.

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

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

Explanatory Notes

Introduction

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

Data based on household interviews are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 60,000 households, representing 629 areas in 1,133 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

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

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

Employment

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

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

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

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

Hours of work

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

Earnings

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

COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

Unemployment insurance data. The unemployed total from the household survey includes all persons who did not have a job at all during the survey week and were looking for work or were waiting to be called back to a job from which they had been laid off, whether or

not they were eligible for unemployment insurance. Figures on unemployment insurance claims, prepared by the Employment and Training Administration of the Department of Labor, exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (some workers in agriculture, domestic services, and religious organizations, and self-employed and unpaid family workers). Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

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

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

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

COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

Statistics on manufactures and business, Bureau of the Census. BLS establishment statistics on employment differ from employment

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

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

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

Household Data (A tables)

COLLECTION AND COVERAGE

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

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

Inmates of institutions, members of the Armed Forces, and persons under 14 years of age are not covered in the regular monthly enumerations and are excluded from the population and labor force statistics shown in this report. Data on members of the Armed Forces, who are

included as part of the categories "total noninstitutional population" and "total labor force," are, however, obtained from the Department of Defense.

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

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

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

Beginning in May 1981 the sample size was cut by about 6,000 occupied housing units. The reduction did not affect the ability to

publish reliable State and local estimates and had practically no effect on the reliability of national estimates.

CONCEPTS

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

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

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

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

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

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

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

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

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

The unemployment rate represents the number unemployed as a percent of the civilian labor force. This measure can also be computed

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

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

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

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

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

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

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

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

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

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

dispute, or otherwise absent from their jobs for voluntary, noneconomic reasons.

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

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

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

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

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

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

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

Nonveterans are males who never served in the Armed Forces.

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

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

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

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

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

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

HISTORIC COMPARABILITY

Raised lower age limit

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

Noncomparability of labor force levels

Before the changes introduced in 1967, the labor force data were not comparable for three earlier periods: (1) Beginning in 1953, as a result of the introduction of data from the 1950 census into the estimation procedure, population levels were raised by about 600,000; labor force, total employment, and agricultural employment by about 350,000, primarily affecting the figures for totals and males; other categories were relatively unaffected; (2) beginning in 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force, four-fifths of this in nonagricultural employment; other labor force categories were not appreciably affected; (3) beginning in 1962, the introduction of figures from the 1960 census reduced the population by about 50,000, labor force and employment by about 200,000; unemployment totals were virtually unchanged. In addition, beginning in 1972, information from the 1970 census was introduced into the estimation procedures, producing an increase in the civilian noninstitutional population of about 800,000; labor force and employment totals were raised by a little more than 300,000, and unemployment levels and rates were

essentially unchanged. A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment affected the white and black and other groups but had little effect on totals. The adjustment resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black and other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black and other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

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

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

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

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

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

Changes in the occupational classification system

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

groups; the nonfarm laborers group increased by 420,000, and changes in other groups amounted to 220,000 or less.

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

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

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

Changes in sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, occasionally the sample is expanded in terms of number of sample areas and number of sample persons. In 1953, a rotation plan was introduced in which a sample unit would be interviewed for 4 months, leave the sample for 8 months, and then return to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to the sample to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a noncontiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated with the existing design. A coverage improvement sample, composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction housing units that previously had no chance for selection in the CPS sample. In January 1980 another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added to the existing sample. A sample reduction of about 6,000 units was implemented in May 1981.

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

ESTIMATING METHODS

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

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

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

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

a. *First-stage ratio estimate.* In the CPS, a portion of the 629 sample areas is chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The procedure is performed at two

geographic levels: First, by the four census regions (Northeast, North Central, South, and West), and second, for each of the 46 States which contains nonsample areas. The procedure corrects for the differences that existed at the time of the 1970 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. The regional adjustment is performed by metropolitan-nonmetropolitan residence and race, while the State adjustment is done by urban-rural status and race.

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

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

Table A. Characteristics of the CPS sample

Time period	Number of sample areas	Households eligible		Households visited not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981	629	62,200	2,800	12,000
May 1981 to present	629	57,500	2,500	11,000

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

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

race, aging this population forward to each subsequent month and later age by adding births and net migration, and subtracting deaths. These post-censal population estimates are then "deflated" to census level to reflect the pattern of net undercount in the most recent census by age, sex, and race. The actual percent change over time in the population in any age group is preserved.

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

Rounding of estimates

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

Reliability of the estimates

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

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

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

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

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

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Overall undercoverage as compared to the level of the decennial census, is about 5 percent. It is known that the CPS undercoverage varies with age, sex, and race. Generally, undercoverage is larger for males than for females and larger for black and other races than for whites. Ratio estimation to independent age-sex-race population controls, as described previously, partially corrects for the biases due to survey undercoverage.

However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race group. Further, the independent population controls used have not been adjusted for undercoverage in the 1970 census, which was estimated at 2.5 percent of the population, with differentials by age, sex, and race similar to those observed in the CPS.

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

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

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

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

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

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations were required. First, the standard errors in this volume reflect the sample design and estimation procedures in effect prior to the expansions for State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Second, instead of computing an individual standard error for each estimate, generalized sets of standard errors were computed for various types of characteristics. This generalization yields more stable estimates of the standard errors. Consequently, the sets of standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

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

Tables D through H provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table I contains factors for use with table H for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the

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

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

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

Illustration. For example, assume that in a given month 3.6 percent of a total of 90,771,000 employed persons are employed in agriculture. First the standard error on an estimate of 3.6 percent with a base of 90,771,000 is obtained from table H (0.09 percentage point). The appropriate factor from table I for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between two consecutive months. Estimates of change for nonconsecutive months are subject to higher standard errors. Table J contains factors for use with tables D, F, H, and I to compute approximate standard errors, as described below, for levels, labor force participation rates, and percentages as pertaining to year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages and changes in yearly averages. Note that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50 and for the 1956-66 period they should be multiplied by 1.22. Table K provides generalized standard errors for quarterly estimates of persons and families for use with the CPS earnings data.

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

Illustration. Assume that in a given month the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table D shows that the standard error on an estimate of 12,000,000 is about 150,000. The 68 percent confidence interval as shown by these data is from 11,850,000 to 12,150,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in the first column of table E the standard error on a month-to-month change of 400,000 when the monthly level is approximately 12,000,000 is about 111,000.

Standard errors for rates and percentages. The reliability of an estimated unemployment rate or an estimated percentage, computed using sample data for both numerator and denominator, depends on both the size of the rate or percentage and the total upon which the rate or percentage is based. Estimated rates and percentages are relatively more reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages are on the estimated 3.6 percent is then approximately $0.09 \times 1.26 = 0.11$ percentage point.

Standard errors for year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages and changes in yearly averages. The approximate standard errors of levels, rates and percentages involving year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly

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

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

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

Table B. Standard errors for major employment status categories

(In thousands)

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

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

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

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

Illustration:

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

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

or about 259,000.

Table C. Standard errors for unemployment rates by major characteristics

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

Table D. Standard errors for estimates of monthly level

(In thousands)

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

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

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

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

(In thousands)

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

¹ See footnote 1, table D.

² Part-time labor force for unemployment also includes persons

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

Table F. Standard errors for unemployment rates

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

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

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

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

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

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

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

Characteristic	Factor		Characteristic	Factor	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Agricultural employment:			Unemployment:		
Total or full-time labor force	1.26	1.05	Part-time labor force, duration of unemployment, left last job, reentering labor force.	1.01	1.21
Part-time labor force	1.26	1.50	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 J. Factors to be used with Tables, D, F, H, and I to compute the approximate standard errors for levels, rates, and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages, and change in yearly averages

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

Table K. Standard errors for estimates of quarterly level

(In thousands)

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

Establishment Data (B, C, and D tables)

COLLECTION

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

Federal-State cooperation

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

Shuttle schedules

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

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

CONCEPTS

Industrial classification

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

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

Industry employment

Employment data, except those for the Federal Government, refer to persons on establishment payrolls who received pay for any part of the pay period which includes the 12th of the month. For Federal Government establishments, employment figures represent the number of persons who occupied positions on the last day of the

calendar month. Intermittent workers are counted if they performed any service during the month.

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

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

Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in construction, and nonsupervisory employees in private service-producing industries.

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

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

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

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

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

Overtime hours covers hours worked by production or related workers for which overtime premiums were paid because the hours were in excess of the number of hours of either the straight-time workday or the workweek during the pay period which includes the 12th of

the month. Weekend and holiday hours are included only if overtime premiums were paid. Hours for which only shift differential, hazard, incentive, or other similar types of premiums were paid are excluded. *Gross average hourly and weekly earnings.* Average hourly earnings are on a "gross" basis. They reflect not only changes in basic hourly and incentive wage rates but also such variable factors as premium pay for overtime and late-shift work and changes in output of workers paid on an incentive plan. They also reflect shifts in the number of employees between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments. Averages for groups and divisions further reflect changes in average hourly earnings for individual industries.

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

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

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

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

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

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

Railroads hours and earnings. The figures for Class I railroads (excluding switching and terminal companies) are based on monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. Gross average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by the number of employees, as defined above. Gross average weekly

earnings are derived by multiplying average weekly hours by average hourly earnings.

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

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

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

"Real" earnings, or earnings in constant dollars, are calculated from the earnings averages for the current month using a deflator derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

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

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

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

Labor turnover

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

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

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

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

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

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

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

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

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

Relationship of labor turnover to employment series

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

ESTIMATING METHODS

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

The "link relative" technique

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

Size and regional stratification

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

Benchmark adjustments

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

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

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1980 benchmark adjustment is shown in table M.

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

THE SAMPLE

Design

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

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

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

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

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

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

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

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

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

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

Coverage

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

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

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

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	166,300	35,270,000	38
Mining	2,100	369,000	37
Construction	16,100	739,000	18
Manufacturing	44,200	11,175,000	54
Transportation and public utilities:			
Railroad transportation (ICC)	40	482,000	90
Other transportation and public utilities	7,600	2,623,000	57
Wholesale and retail trade	41,100	3,288,000	16
Finance, insurance, and real estate	11,200	1,826,000	36
Services	25,500	3,516,000	20
Government:			
Federal ²	4,500	2,869,000	100
State and local	13,900	8,383,000	61

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

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

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

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

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

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

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

(In percent)

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

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

² Relative errors relate to March 1971 data.

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

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

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

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

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

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

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

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

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to March 1971 data.

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

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 compensa-

Table R. Errors of preliminary employment estimates

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

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

tion and gross national product supplied by the U.S. Department of Commerce and the Federal Reserve Board.

Definitions

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

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

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

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

Unit labor costs measure the labor compensation cost required to produce one unit of output and are derived by dividing compensation per hour by output per hour. *Unit nonlabor payments* include profits, depreciation; interest, and indirect taxes per unit of output. They are

computed by subtracting compensation of all persons from the current-dollar gross national product and dividing by output. In these tables, unit nonlabor costs contain all the components of unit nonlabor payments except unit profits. *Unit profits* include corporate profits and inventory valuation adjustments per unit of output.

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

Notes on the data

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

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

State and Area Unemployment Data (E table)

FEDERAL-STATE COOPERATIVE PROGRAM

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

ESTIMATING METHODS

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

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

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

2. *Preliminary estimate—unemployment*: In the current month, the estimate of unemployment is an aggregate of the estimates for each of three building block categories: (1) Persons who were previously employed in industries covered by State unemployment insurance (UI) laws; (2) those previously employed in industries not covered by these

laws; and (3) those who were either entering the labor force for the first time or reentering after a period of separation. This is referred to below as the UI-based estimate.

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

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

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

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

U = total entrant unemployment

E = total employment

X = total experienced unemployment

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

3. *Correction factors for employment and unemployment* are then applied at the State level to the UI-based estimates obtained above for

each of the 40 States and the District of Columbia. These correction factors are based on the ratio of the CPS to the UI-based estimates for the 6 month period ending in the current month (e.g. a 6-month moving average).

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

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

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

Seasonal Adjustment

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

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

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

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

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

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

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

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

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

Seasonally adjusted data are not published for a number of series characterized by small seasonal components relative to their trend-cycle and/or irregular components. Beginning with data for July 1981, these failed or unsatisfactory seasonally adjusted series are used in the aggregation to broader level seasonally adjusted series. In prior months, the unadjusted series were used in the aggregation process.

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

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

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

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

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