

Employment and Earnings

June 1980



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U.S. DEPARTMENT OF LABOR Ray Marshall, 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	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.	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	Oct. ¹
Revised seasonally adjusted series	Oct. ²
State and area annual averages	May
Area definitions	May

¹ The issue that introduces new benchmark varies. The October 1979 issue marks the introduction of March 1978 benchmarks. The March 1979 benchmark will be introduced in the July 1980 issue.

² Revised data introduced October 1979

Employment and Earnings

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

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Employment and Unemployment Developments, May 1980

Unemployment rose sharply for the second straight month and employment continued to decline in May. The jobless rate was 7.8 percent, up from 7.0 percent in April and 6.2 percent in March.

Total employment—as measured by the monthly survey of households—edged down in May, as a 300,000 decline in nonfarm employment was partially offset by an over-the-month gain in agriculture. Total employment has declined by nearly 1 million during the past 3 months.

Nonfarm payroll employment—as measured by the monthly survey of establishments—declined by 180,000 in May to 90.3 million. As in April, the drop was concentrated in manufacturing. Average weekly hours fell for the fourth month in a row.

Unemployment

The unemployment rate rose 0.8 percentage point for the second month in a row and stood at 7.8 percent in May, the highest rate since November 1976. The number of persons unemployed increased by 900,000 to 8.2 million. Most of the May increase can be traced to layoffs and job terminations; job losers now comprise more than half of the unemployed total. In the past 2 months, the number of unemployed workers has risen by 1.7 million. (See tables A-33 and A-39.)

Jobless rate increases were pervasive among worker groups. The teenage rate jumped 3 full percentage points to 19.2 percent. The rates for adult men and women continued to rise; each stood at 6.6 percent in May. Joblessness among adult men has been climbing at a faster pace than that for adult women in recent months, and May marked the first time in 2 decades that the rate for men has been as high as that for women. Whites, blacks, and full-time workers also registered markedly higher rates than those posted in April. (See table A-36.)

As in the previous month, unemployment increases were especially large among workers in the construction and manufacturing industries. The rate for blue-collar workers also rose sharply.

The number of nonfarm workers on part-time work schedules for economic reasons (often referred to as the “partially unemployed”) increased by 530,000 in May to 4.3 million. Jobholders who usually work full time accounted for two-thirds of the increase. (See A-42.)

Employment

Following a drop of 800,000 in the February-April period, there was a small decline in total employment in May. Over the past 3 months, the overall employment level decreased by nearly 1 million; about three-quarters of the decline occurred among adult men. The precipitous drop during recent months wiped out about two-thirds of the employment gains which had occurred since May a year ago, such that total employment was up only about half a million over the past year. The employment-population ratio was 58.5 percent in May, the lowest it has been in 2 years. (See table A-33.)

There were sharp contrasts in April-to-May movements among the major occupational groups. The number of blue-collar workers fell by 450,000, continuing the steep declines which have been registered in recent months. In contrast, white-collar employment was up 200,000 in May and has maintained a moderate growth pace. (See table A-42.)

The civilian labor force swelled by 725,000 in May to 105.1 million, as a disproportionately large number of persons under 25 years of age entered the labor force; they accounted for more than half of the over-the-month growth. The May labor force activity brought the overall labor force participation rate to a record 64.2 percent, up 0.4 point from April.

Industry payroll employment

Nonagricultural payroll employment fell by 180,000 in May and was down more than 500,000 since February. At 90.3 million, payroll employment has grown by less than 1 million over the past year. (See table B-4.)

The over-the-month decline took place almost entirely in manufacturing, where employment fell

by 275,000. Most affected by the cutbacks were the durable goods industries, particularly transportation equipment and fabricated metals, each of which lost about 60,000 jobs. The number of jobs in the transportation equipment industry has fallen by about 175,000, or 9 percent, in the past 2 months. Substantial over-the-month declines also were registered in primary metals, lumber and wood products, and stone, glass, and clay products. Employment in nondurable goods manufacturing generally showed only small changes, except for a decrease of 35,000 in rubber and plastic products and an increase of about the same magnitude in petroleum and coal products, where striking workers returned to their jobs.

Elsewhere in the goods-producing sector, mining employment rose over the month and construction jobs were about unchanged. Construction employment had dropped by 300,000 between January and April.

In the service-producing sector, there was slow employment growth. Most of the 70,000 advance was accounted for by an increase in services industry jobs, although finance, insurance, and real estate also showed a gain. An 85,000 decline in Federal government jobs primarily was due to reductions in the number of temporary workers for the 1980 Decennial Census; Federal employment had shown a rise of nearly 300,000 between February and April.

Hours of work

The average workweek for production or non-supervisory workers on private nonfarm payrolls dropped by 0.2 hour to 35.1 hours in May; average weekly hours have fallen for 4 consecutive months. The manufacturing workweek also was down 0.2 hour and has fallen by nearly 1 hour

since January. Factory overtime declined 0.3 hour in May to 2.6 hours, following a decline of the same magnitude in April. (See table C-7.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls was down 0.7 percent over the month to 123.6 (1967 = 100) in May, reflecting the declines in both employment and weekly hours. The manufacturing index dropped by 2.5 percent over the month and was down 6.1 percent since January. (See table C-8.)

Hourly and weekly earnings

Average hourly earnings of production or non-supervisory workers on private nonagricultural payrolls rose 0.5 percent over the month and were 7.9 percent above the May 1979 level (seasonally adjusted). Average weekly earnings edged down by 0.1 percent from April but have risen by 6.1 percent over the year.

Before adjustment for seasonality, average hourly earnings rose 4 cents in May to \$6.57 and were 48 cents above the May 1979 level. Average weekly earnings were \$229.95, up \$1.40 over the month and \$13.75 over the year. (See tables C-1 and C-9.)

The Hourly Earnings Index

The Hourly Earnings Index—earnings adjusted for overtime in manufacturing, seasonality, and the effects of changes in the proportion of workers in high-wage and low-wage industries—was 247.9 (1967 = 100) in May, 0.6 percent higher than in April. The Index was 9.0 percent above May a year ago. In dollars of constant purchasing power, the Index decreased 5.2 percent during the 12-month period ended in April. (See table C-9.)

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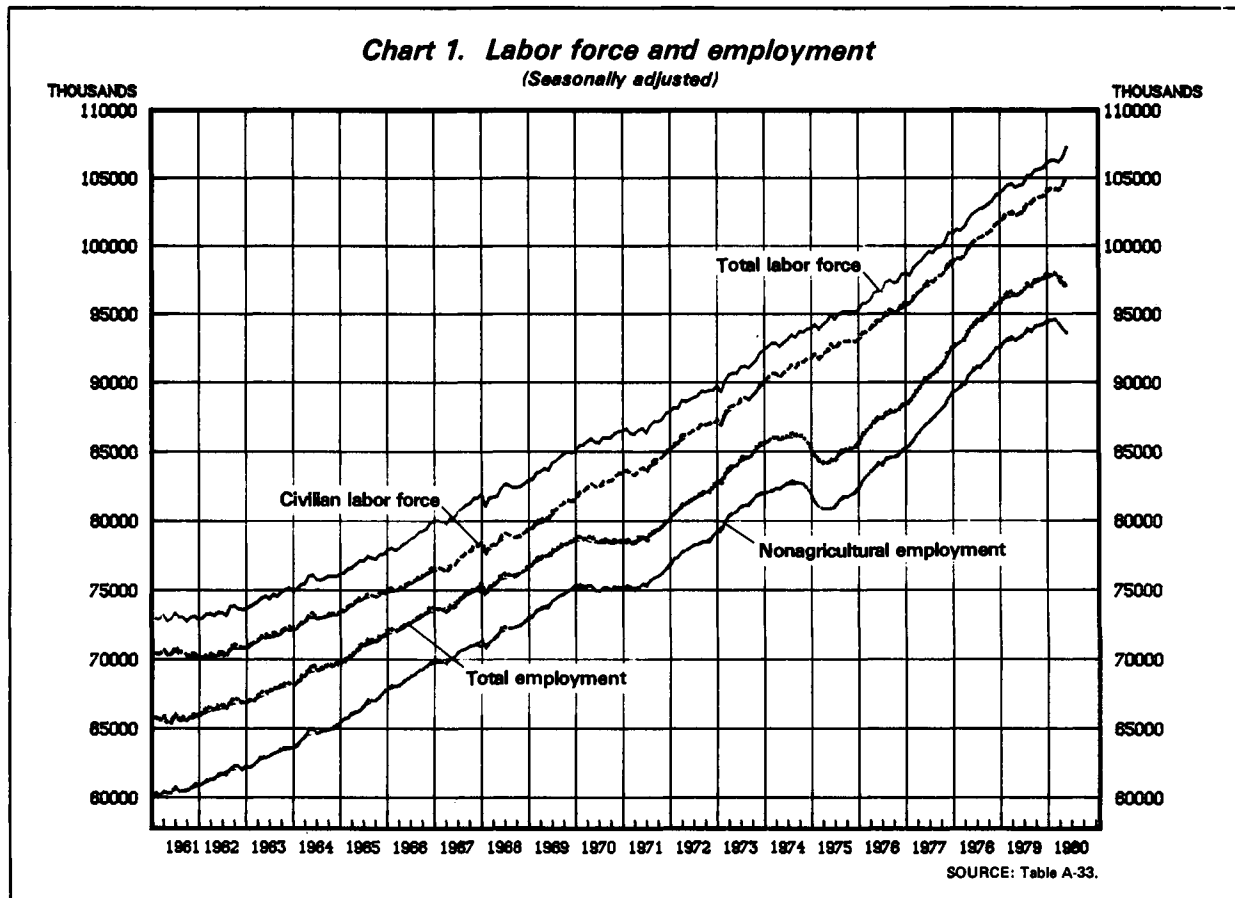
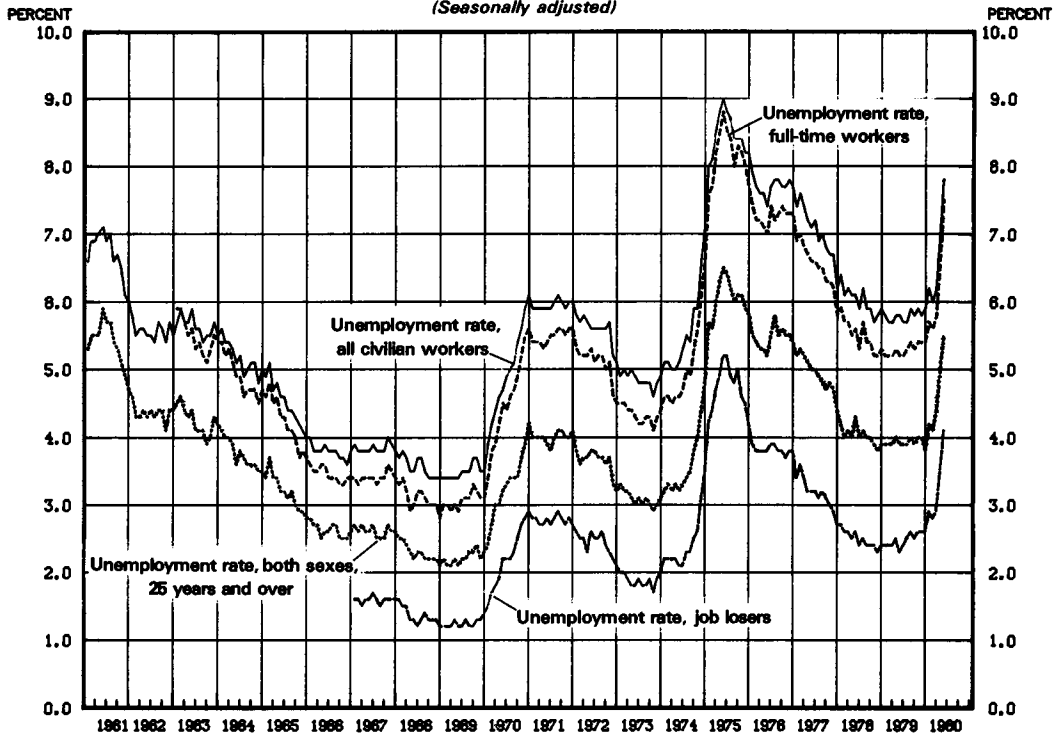


Chart 2. Major unemployment indicators

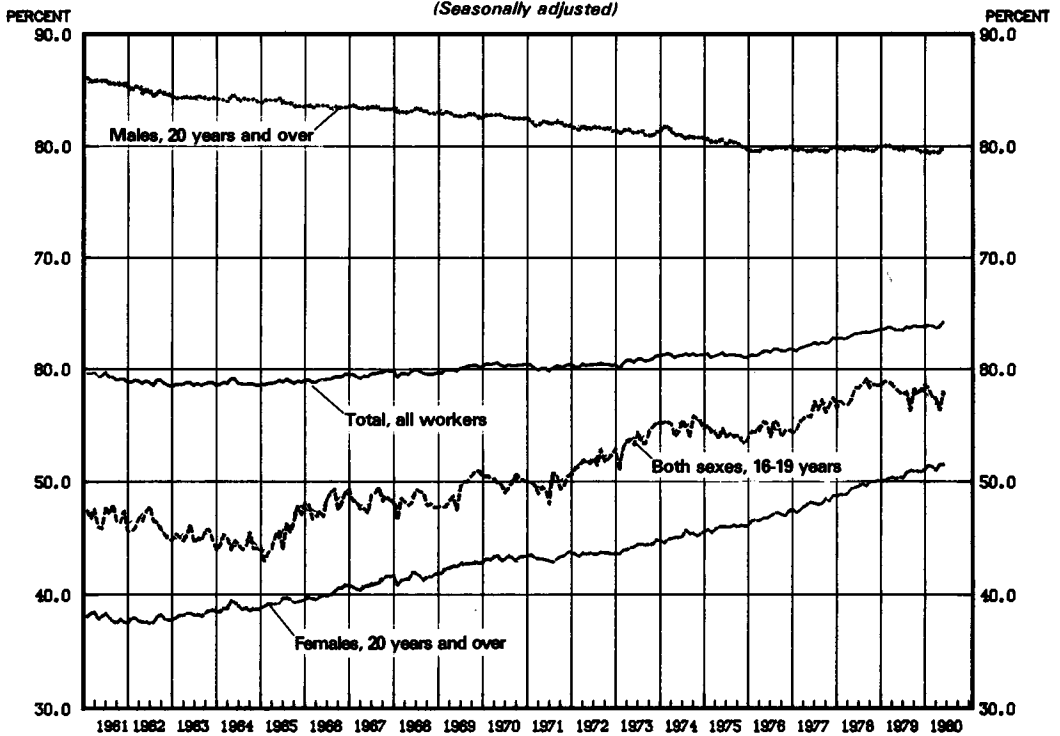
(Seasonally adjusted)



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

Chart 3. Civilian labor force participation rates by sex and age

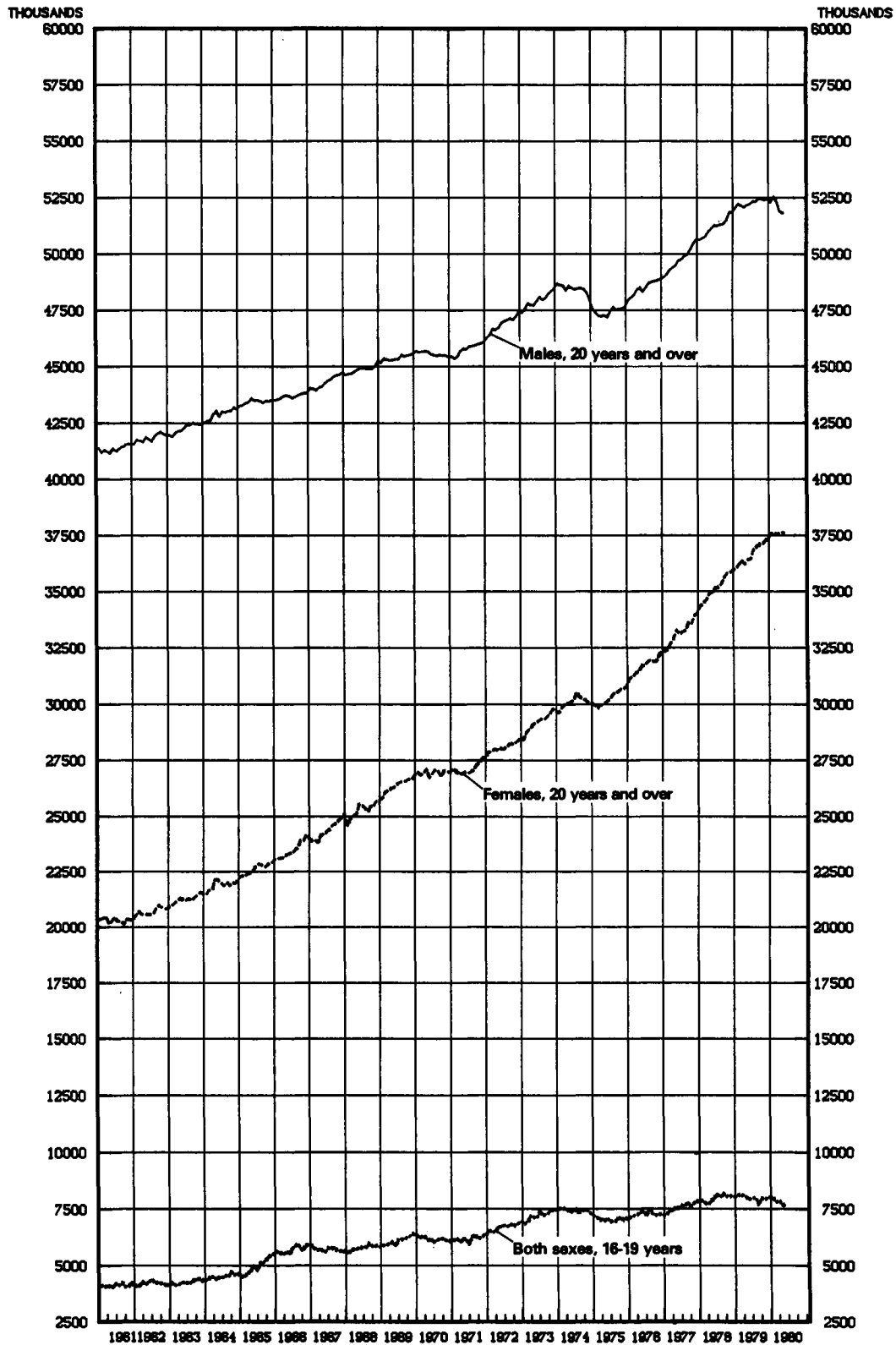
(Seasonally adjusted)



SOURCE: Table A-33.

Chart 4. Total employment by sex and age

(Seasonally adjusted)



SOURCE: Table A-33.

Chart 5. Employment—population ratios by sex and age
(Seasonally adjusted)

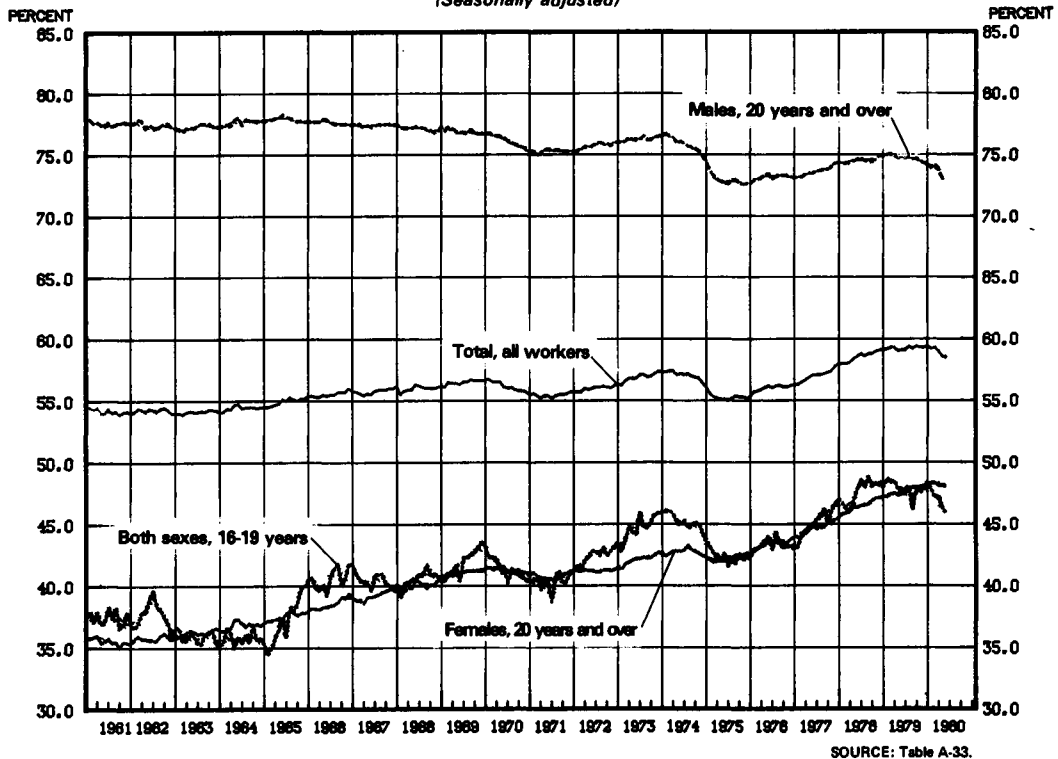


Chart 6. Payroll employment in goods-and service-producing industries
(Seasonally adjusted)

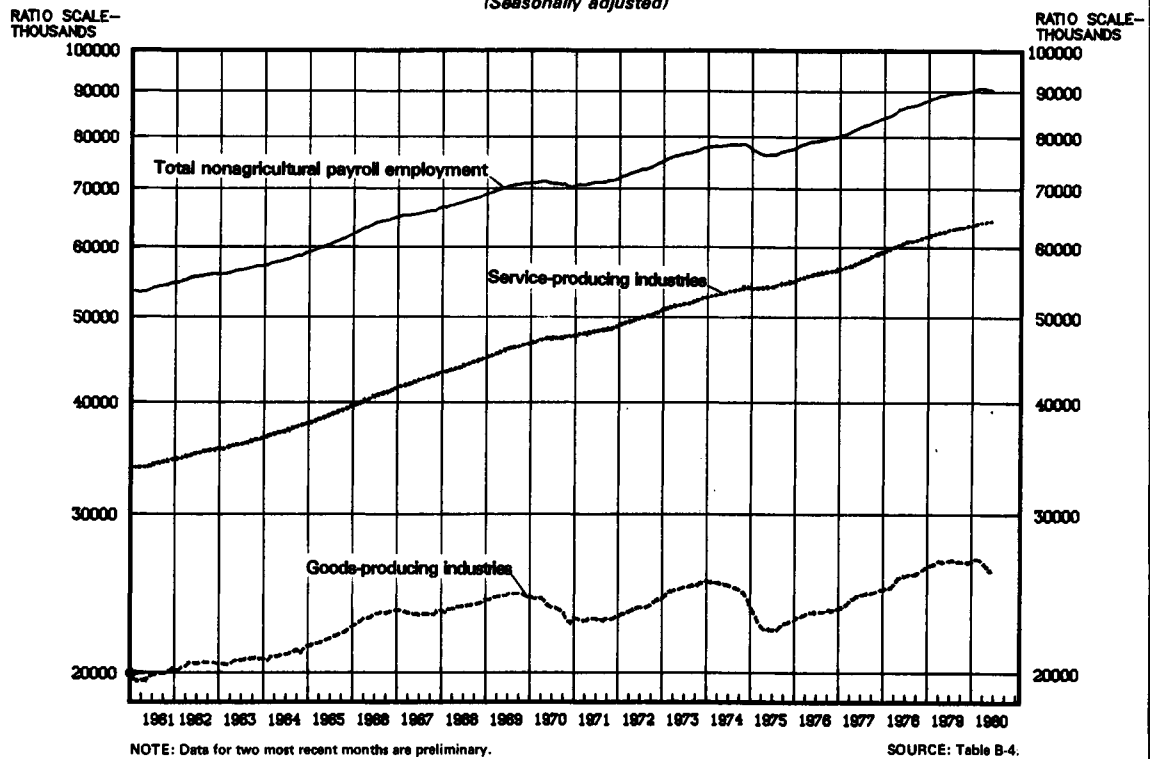
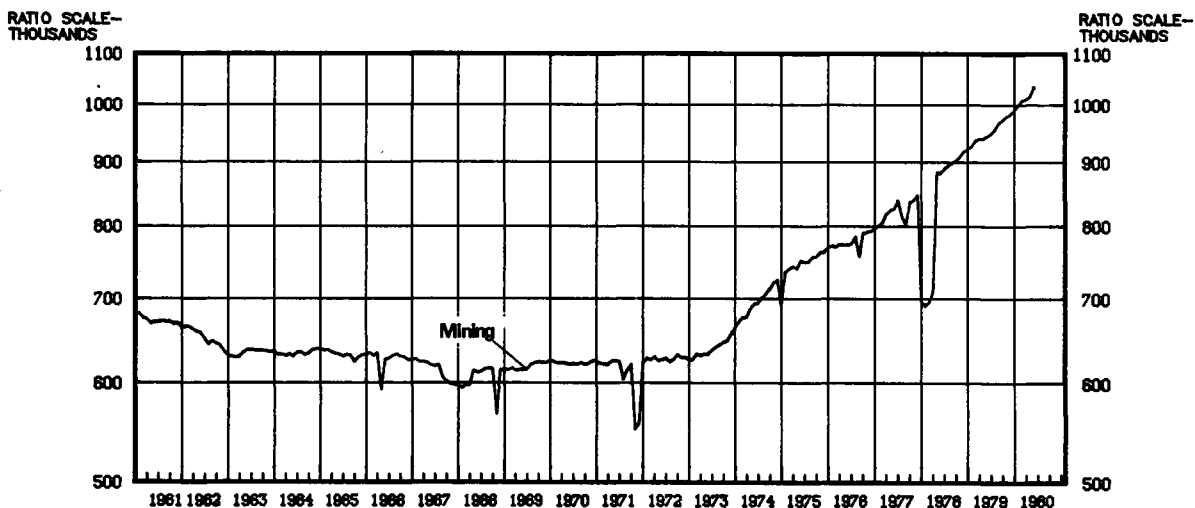
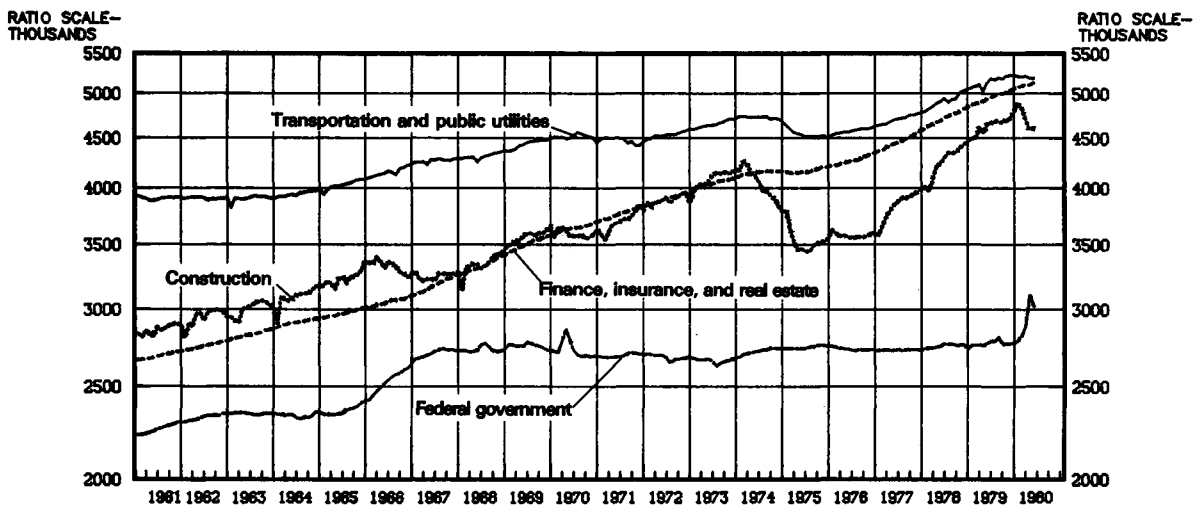
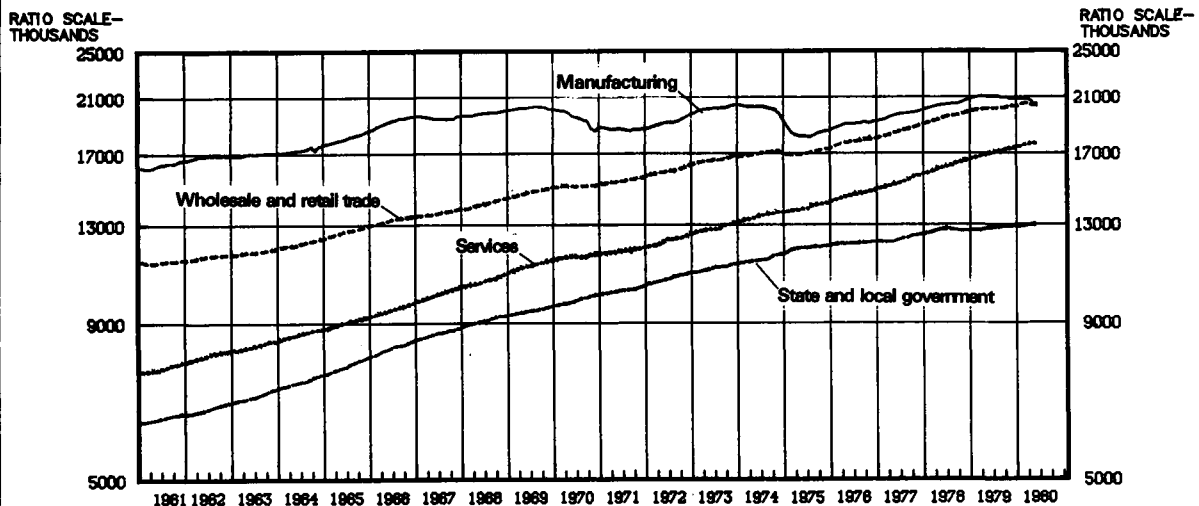


Chart 7. Nonagricultural payroll employment by industry

(Seasonally adjusted)

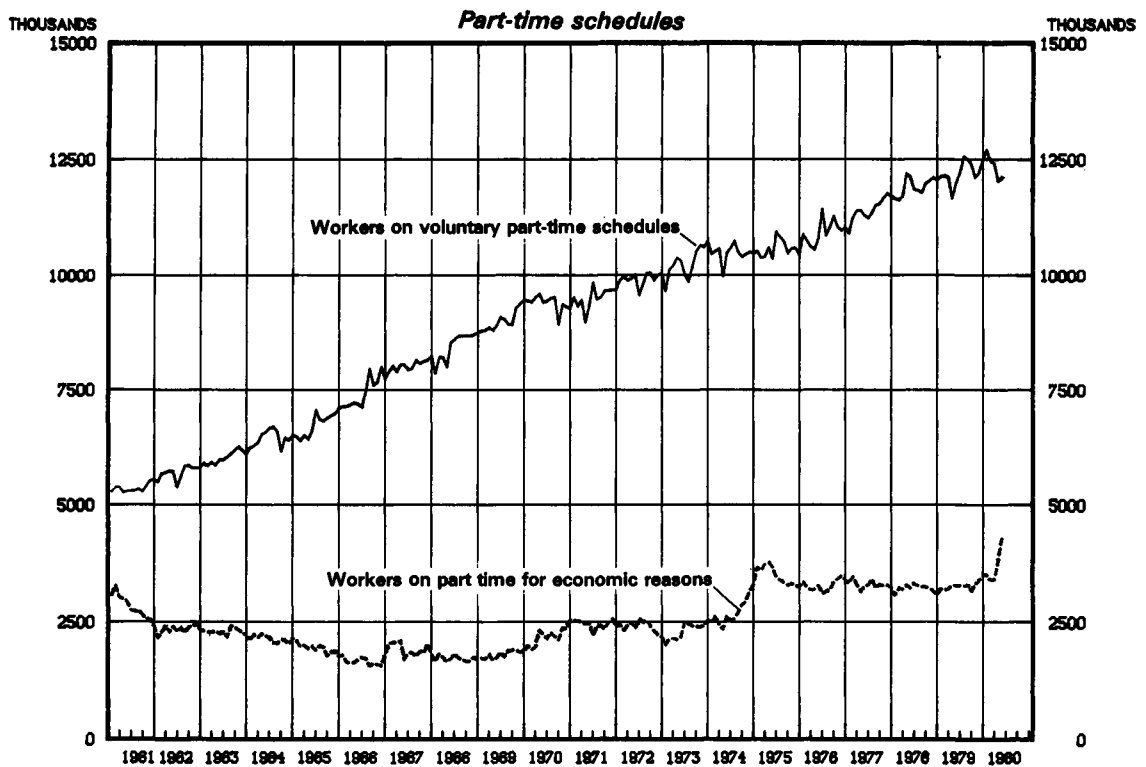
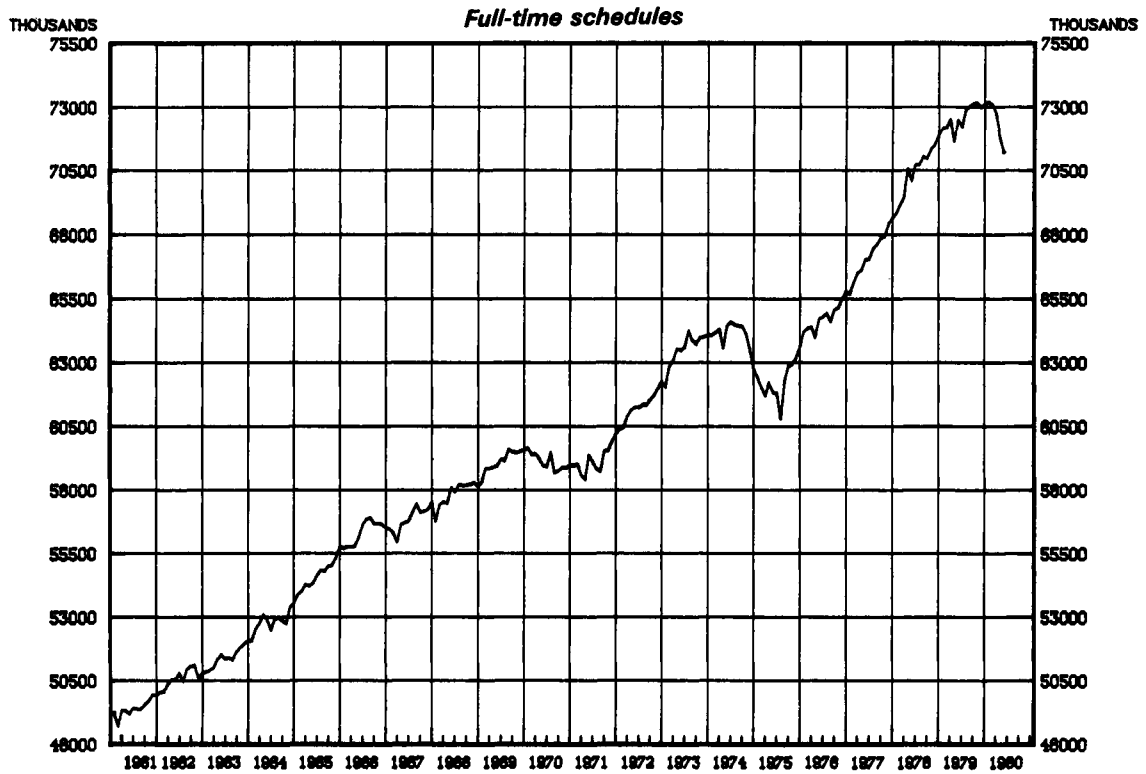


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

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

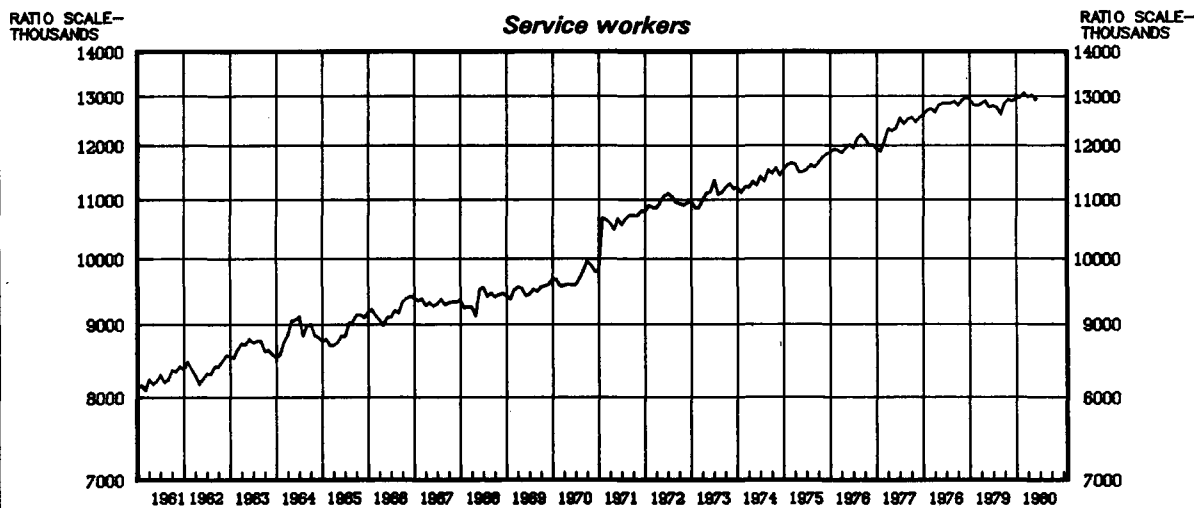
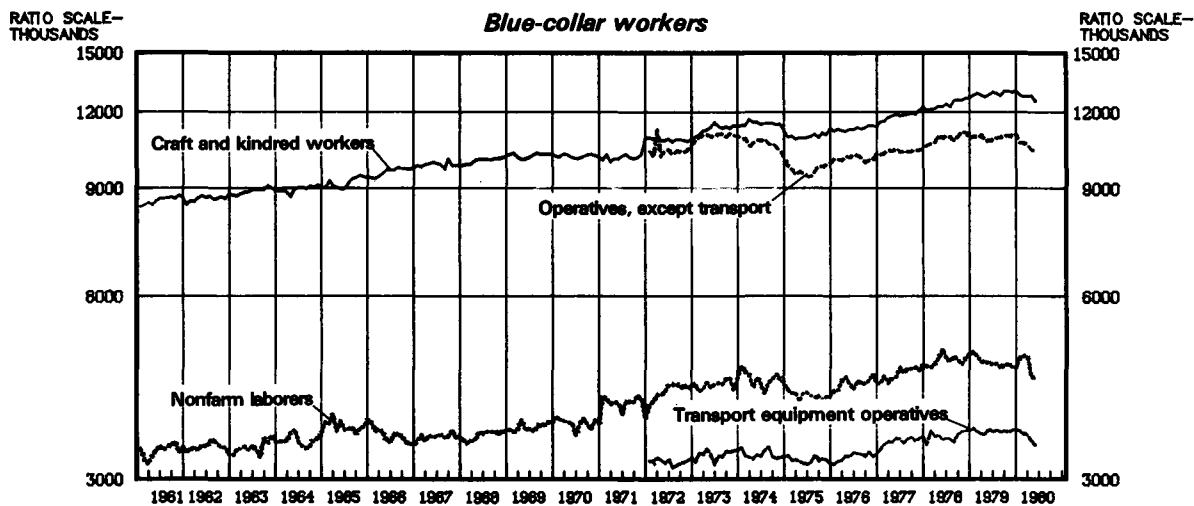
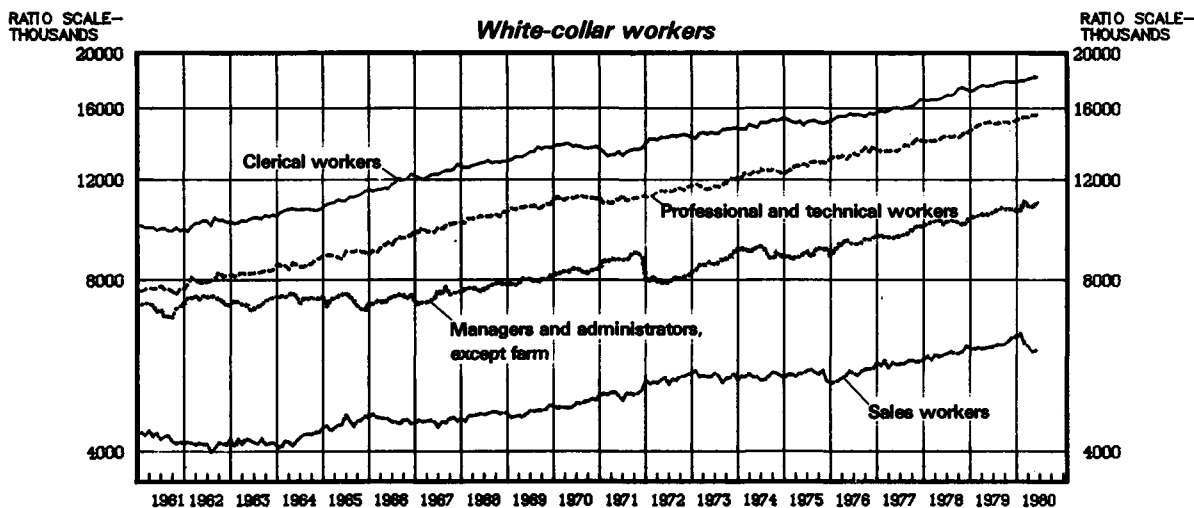
(Seasonally adjusted)



SOURCE: Table A-42.

Chart 9. Employment in nonfarm occupations

(Seasonally adjusted)

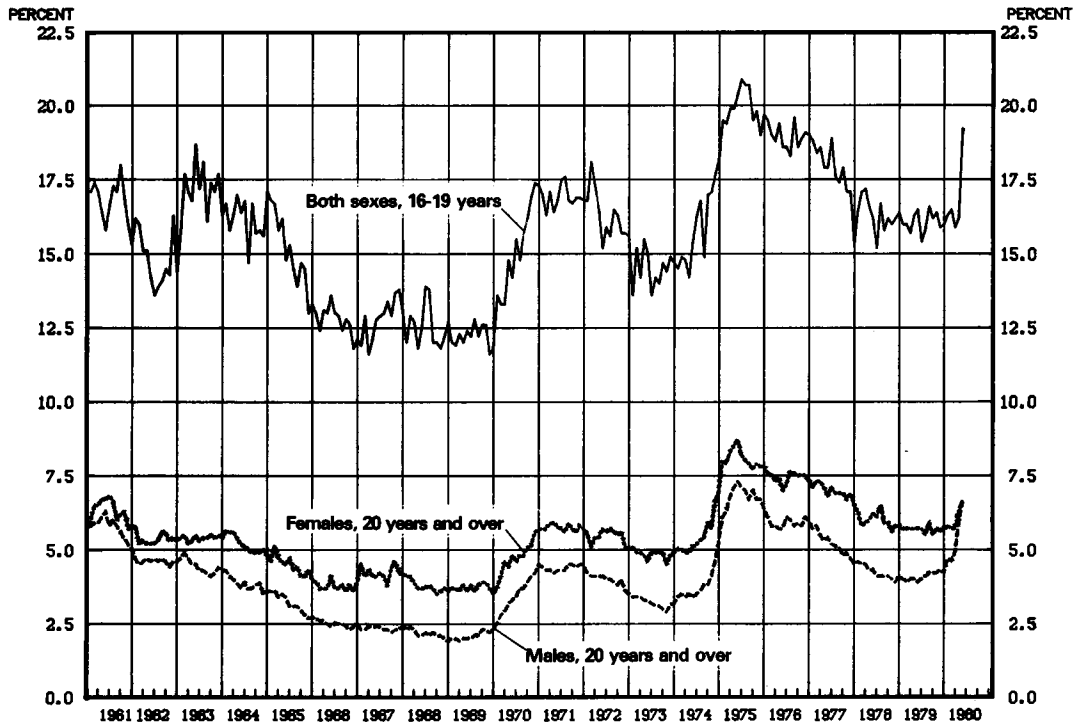


NOTE: Two breaks in series occurred in 1971 stemming from the reclassification of occupations introduced in January and from a questionnaire change concerning "major activity" introduced in December. See "Changes in occupational classification system" in the Explanatory Notes.

SOURCE: Table A-42.

Chart 10. Unemployment rates by sex and age

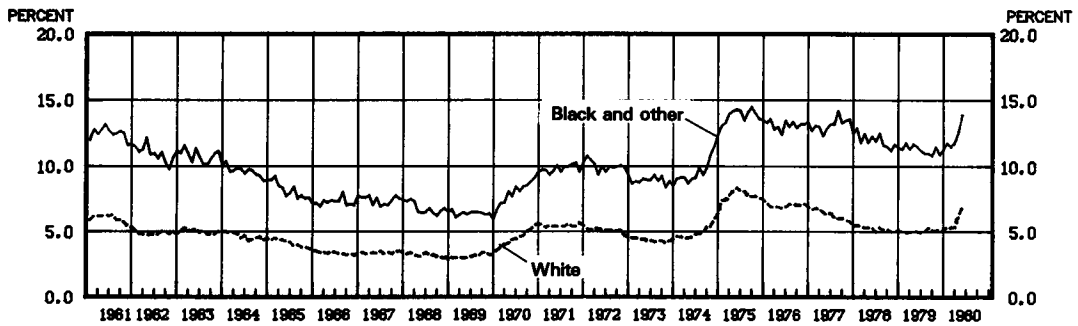
(Seasonally adjusted)



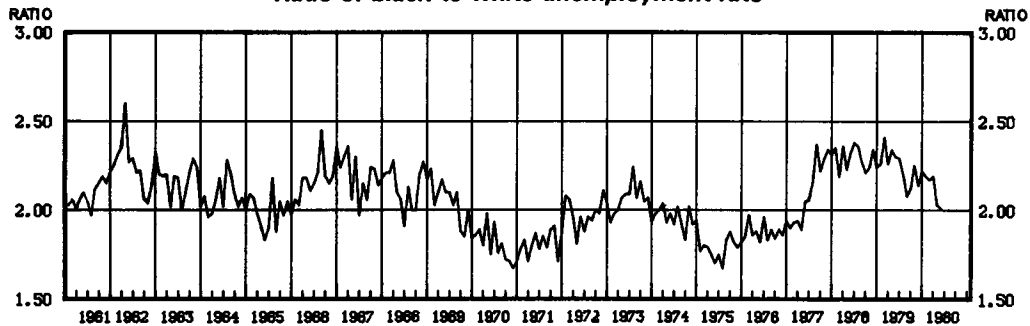
SOURCE: Table A-36.

Chart 11. Unemployment rates by race

(Seasonally adjusted)

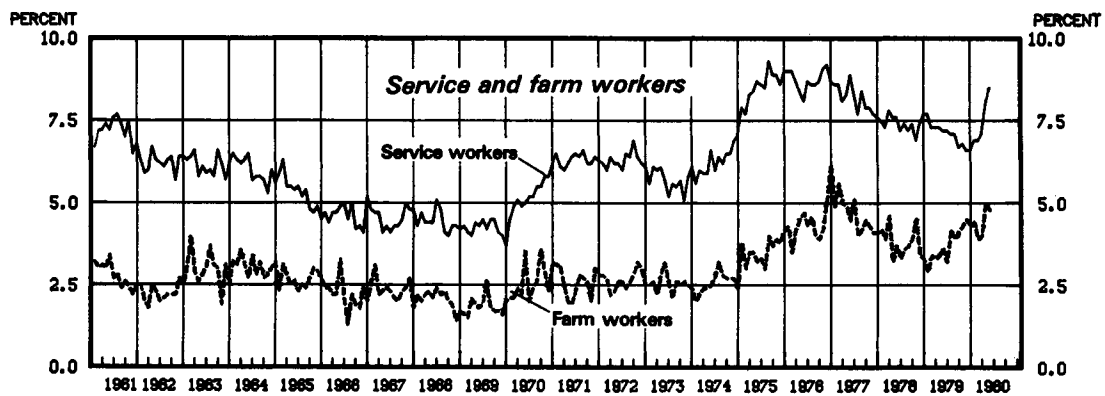
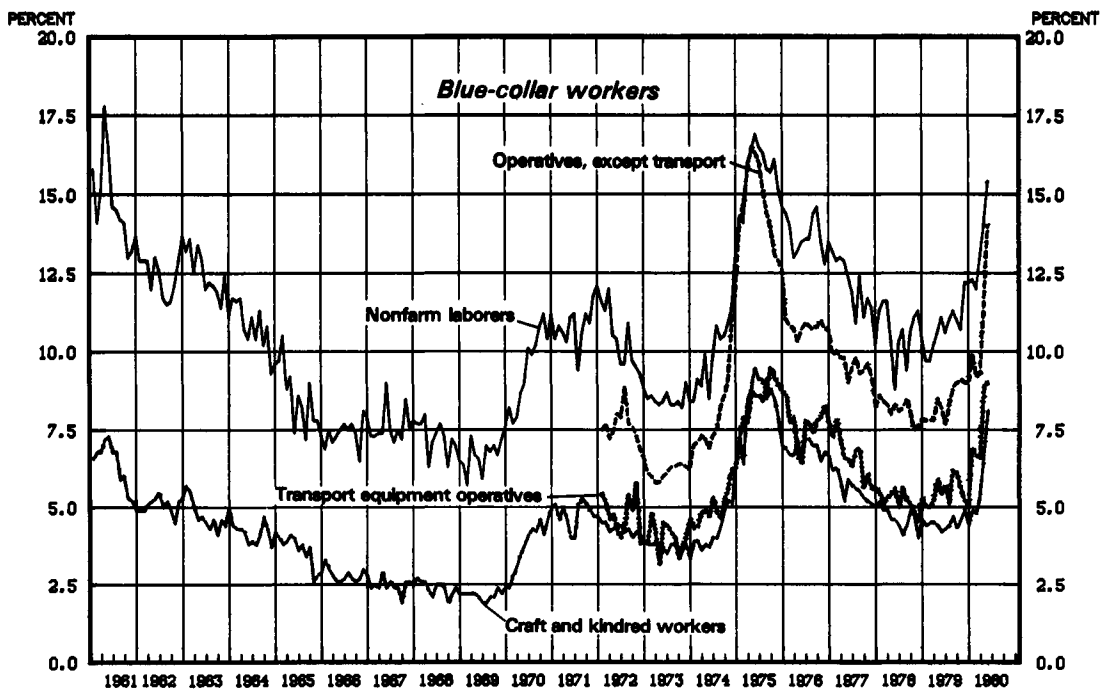
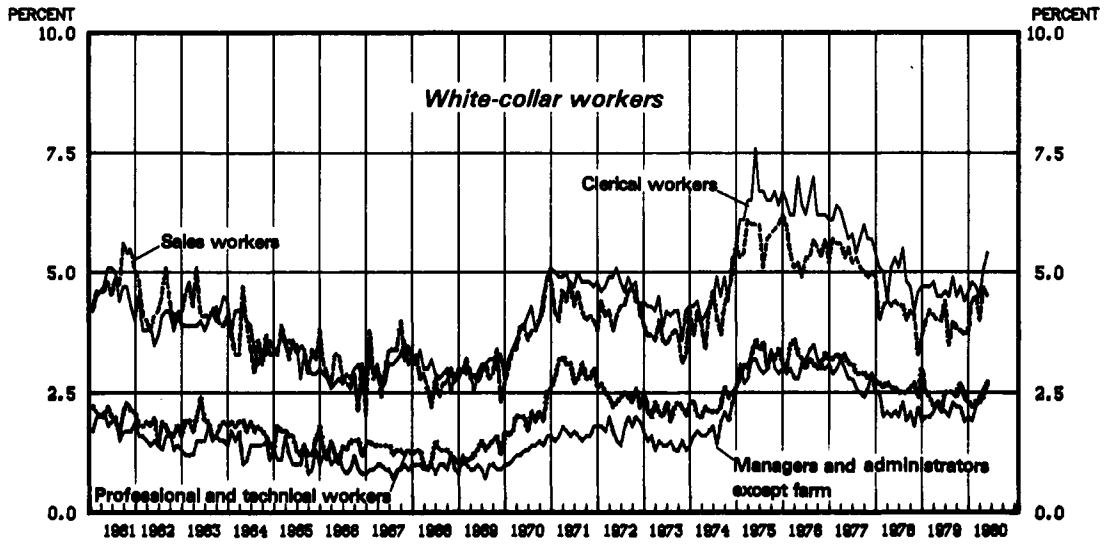


Ratio of black to white unemployment rate



SOURCE: Table A-36.

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



SOURCE: Table A-36.

Chart 13. Duration of unemployment

(Seasonally adjusted)

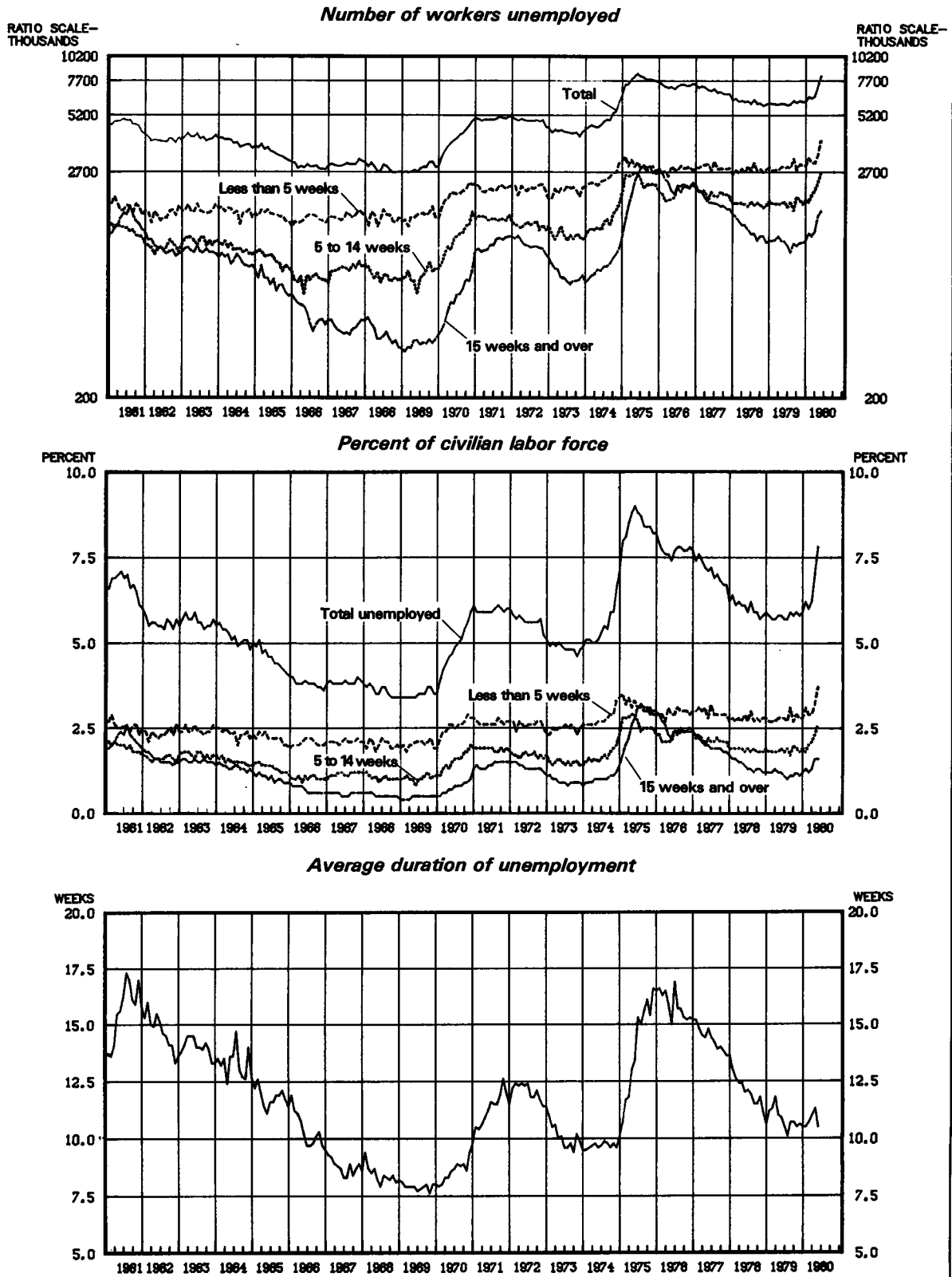
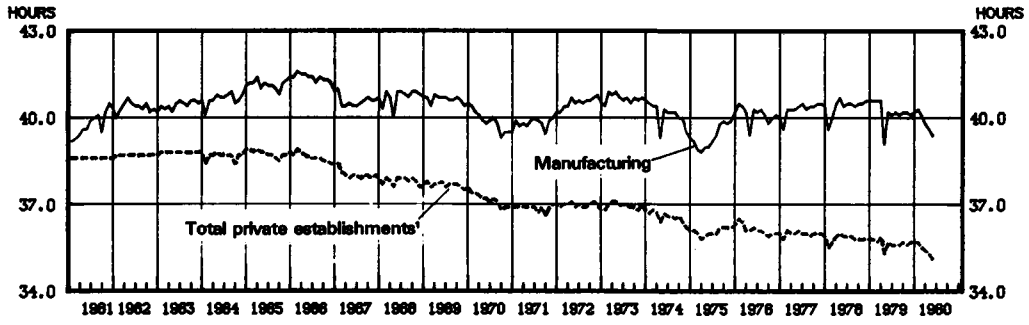
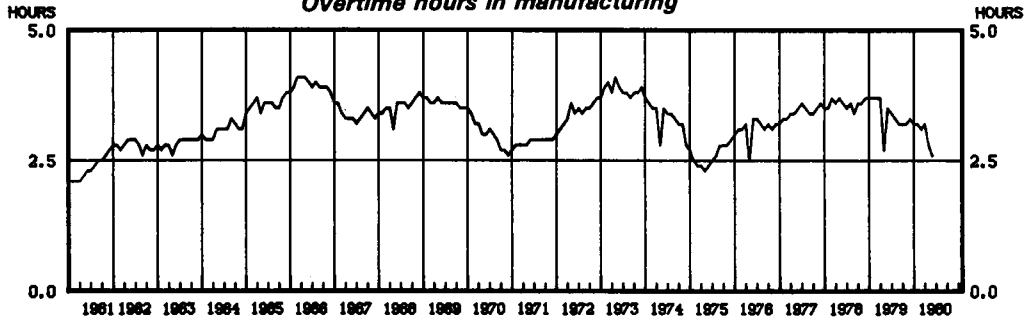


Chart 14. Average weekly hours in nonagricultural industries
(Seasonally adjusted)



Overtime hours in manufacturing

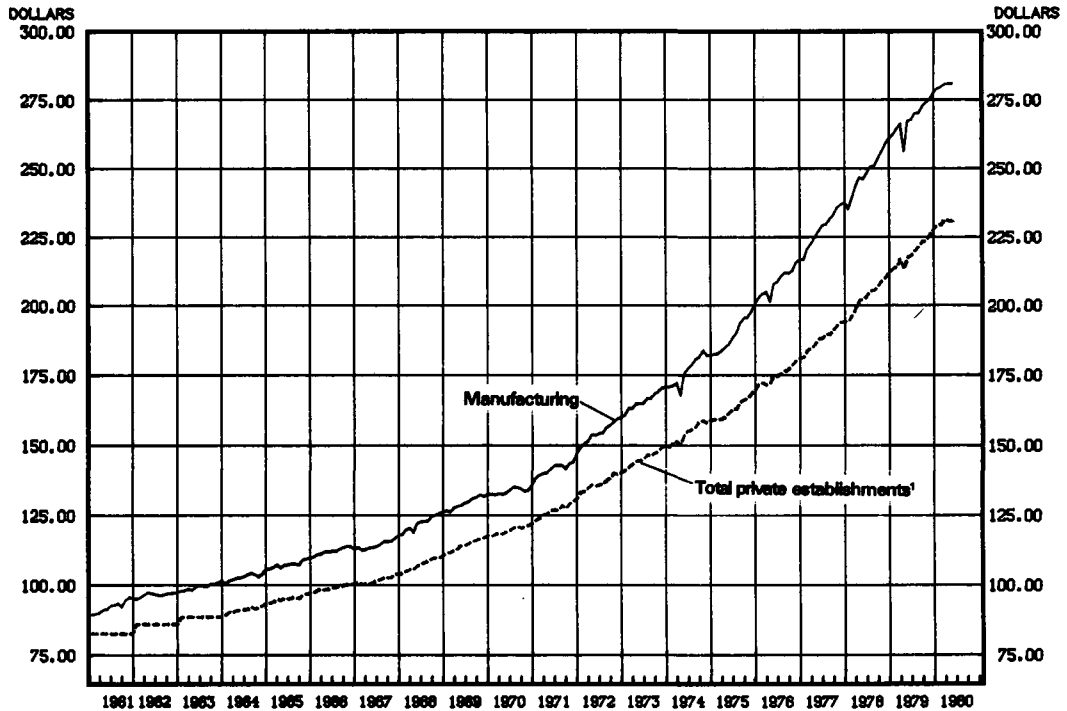


¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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



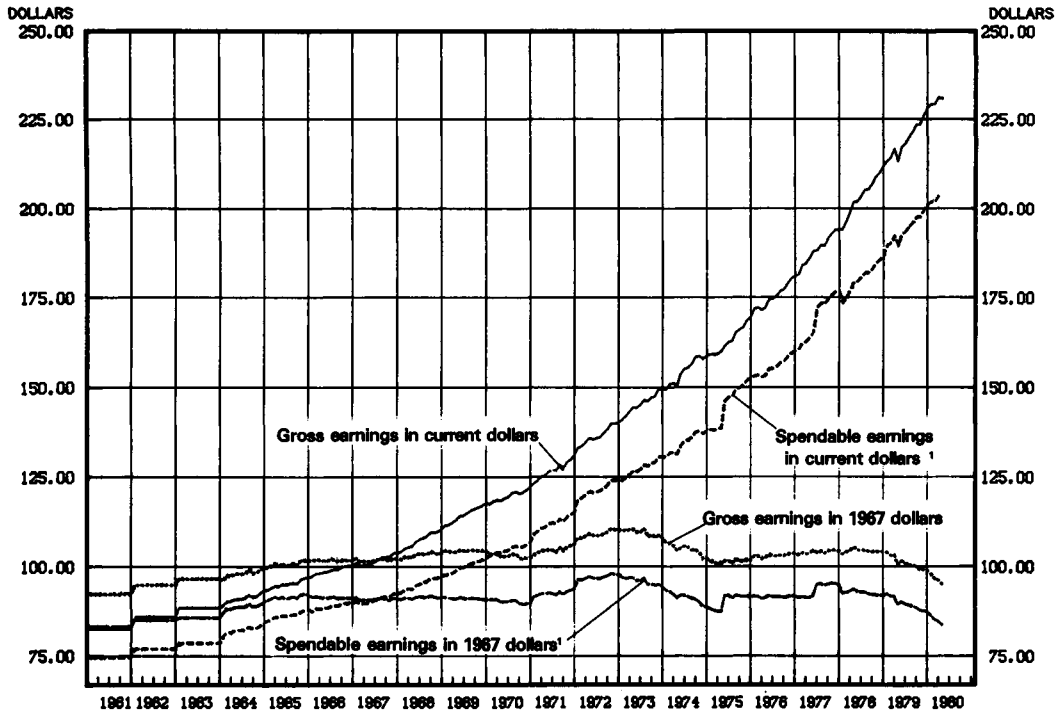
¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-9.

Chart 16. Total private gross and spendable weekly earnings

(Seasonally adjusted)



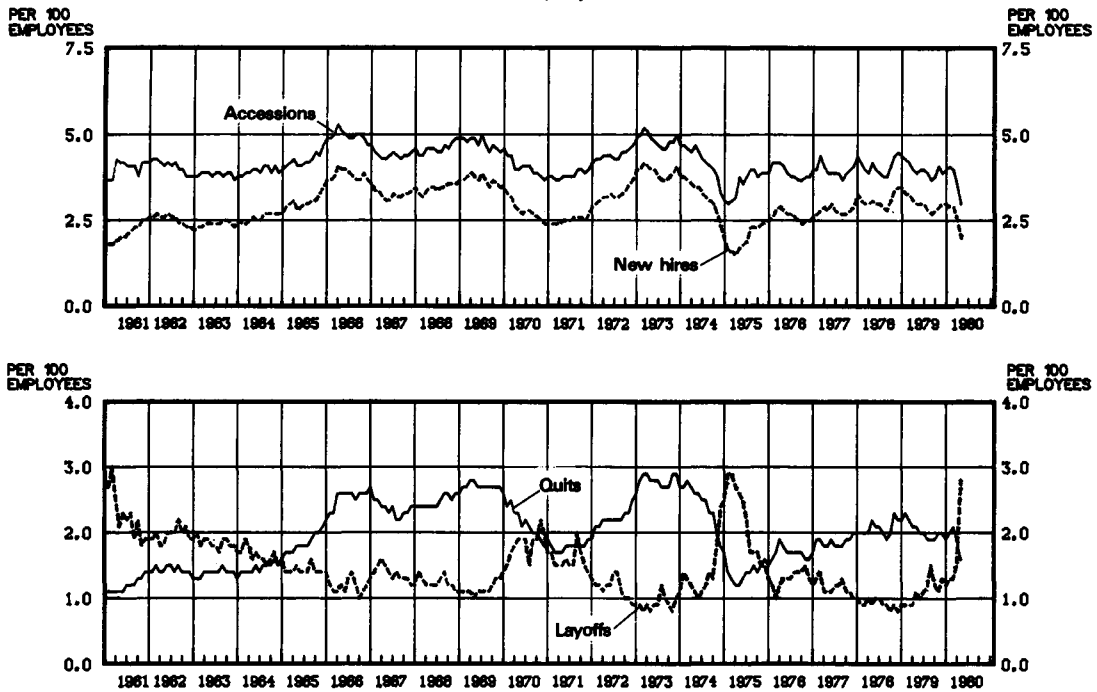
¹ Married worker with three dependents.

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

SOURCE: Table C-9.

Chart 17. Labor turnover rates in manufacturing

(Seasonally adjusted)



NOTE: Data for current month are preliminary.

SOURCE: Table D-3.

**HOUSEHOLD DATA
HISTORICAL**

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

[Numbers in thousands]

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
TOTAL										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960.....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 ¹	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 ¹	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973.....	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
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
Monthly data, seasonally adjusted ²										
1979:										
May.....	163,260	104,476	64.0	102,398	96,495	3,246	93,249	5,903	5.8	58,784
June.....	163,469	104,552	64.0	102,476	96,652	3,243	93,409	5,824	5.7	58,917
July.....	163,685	105,175	64.3	103,093	97,184	3,267	93,917	5,909	5.7	58,511
August...	163,891	105,218	64.2	103,128	97,004	3,315	93,689	6,124	5.9	58,673
September	164,106	105,586	64.3	103,494	97,504	3,364	94,140	5,990	5.8	58,519
October..	164,468	105,688	64.3	103,595	97,474	3,294	94,180	6,121	5.9	58,786
November.	164,682	105,744	64.2	103,652	97,608	3,385	94,223	6,044	5.8	58,937
December.	164,898	106,088	64.3	103,999	97,912	3,359	94,553	6,087	5.9	58,810
1980:										
January..	165,101	106,310	64.4	104,229	97,804	3,270	94,534	6,425	6.2	58,791
February..	165,298	106,346	64.3	104,260	97,953	3,326	94,626	6,307	6.0	58,951
March....	165,506	106,184	64.2	104,094	97,656	3,358	94,298	6,438	6.2	59,322
April....	165,693	106,511	64.3	104,419	97,154	3,242	93,912	7,265	7.0	59,182
May.....	165,886	107,230	64.6	105,142	96,988	3,379	93,609	8,154	7.8	58,657

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

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

HOUSEHOLD DATA
HISTORICAL

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

[Numbers in thousands]

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
MALES										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,855	1,403	2.8	12,677
1970.....	67,409	54,343	80.6	51,195	48,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972 ¹	69,864	55,671	79.7	53,265	50,630	2,839	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	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
1979.....	78,397	61,466	78.4	59,517	56,499	2,645	53,854	3,018	5.1	16,931
Monthly data, seasonally adjusted ²										
1979:										
May.....	78,225	61,257	78.3	59,313	56,372	2,608	53,764	2,941	5.0	16,968
June.....	78,323	61,311	78.3	59,370	56,477	2,600	53,877	2,893	4.9	17,012
July.....	78,427	61,540	78.5	59,597	56,570	2,614	53,956	3,027	5.1	16,887
August....	78,525	61,437	78.2	59,491	56,408	2,650	53,758	3,083	5.2	17,088
September..	78,627	61,759	78.5	59,812	56,714	2,677	54,037	3,098	5.2	16,867
October...	78,805	61,675	78.3	59,727	56,629	2,666	53,963	3,098	5.2	17,130
November..	78,906	61,652	78.1	59,704	56,580	2,716	53,864	3,124	5.2	17,255
December..	79,009	61,762	78.2	59,823	56,734	2,714	54,020	3,089	5.2	17,247
1980:										
January..	79,104	61,810	78.1	59,878	56,486	2,665	53,821	3,392	5.7	17,295
February..	79,196	61,951	78.2	60,014	56,732	2,702	54,029	3,283	5.5	17,245
March....	79,295	61,976	78.2	60,042	56,601	2,706	53,895	3,441	5.7	17,319
April.....	79,382	61,972	78.1	60,037	55,998	2,602	53,396	4,040	6.7	17,410
May.....	79,472	62,410	78.5	60,479	55,823	2,671	53,152	4,656	7.7	17,062
Annual averages										
FEMALES										
1967.....	69,003	28,395	41.2	28,360	26,893	680	26,212	1,468	5.2	40,608
1968.....	70,217	29,242	41.6	29,204	27,807	660	27,147	1,397	4.8	40,976
1969.....	71,476	30,551	42.7	30,513	29,084	643	28,441	1,429	4.7	40,924
1970.....	72,774	31,560	43.4	31,520	29,667	601	29,066	1,853	5.9	41,214
1971.....	74,084	32,132	43.4	32,091	29,875	598	29,277	2,217	6.9	41,952
1972 ¹	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 ¹	77,242	34,561	44.7	34,510	32,446	619	31,827	2,064	6.0	42,681
1974.....	78,575	35,892	45.7	35,825	33,417	592	32,825	2,408	6.7	42,683
1975.....	79,954	37,087	46.4	36,998	33,553	579	32,973	3,445	9.3	42,868
1976.....	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	8.6	42,789
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
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
Monthly data, seasonally adjusted ²										
1979:										
May.....	85,035	43,220	50.8	43,085	40,123	638	39,485	2,962	6.9	41,815
June.....	85,145	43,241	50.8	43,106	40,175	643	39,532	2,931	6.8	41,905
July.....	85,259	43,635	51.2	43,496	40,614	653	39,961	2,882	6.6	41,624
August....	85,366	43,782	51.3	43,637	40,596	665	39,931	3,041	7.0	41,585
September..	85,479	43,827	51.3	43,682	40,790	687	40,103	2,892	6.6	41,652
October...	85,663	44,013	51.4	43,868	40,845	628	40,217	3,023	6.9	41,651
November..	85,775	44,093	51.4	43,948	41,028	669	40,359	2,920	6.6	41,683
December..	85,889	44,326	51.6	44,176	41,178	645	40,533	2,998	6.8	41,563
1980:										
January..	85,997	44,501	51.7	44,352	41,318	605	40,713	3,034	6.8	41,495
February..	86,102	44,396	51.6	44,246	41,221	624	40,597	3,025	6.8	41,706
March....	86,211	44,209	51.3	44,052	41,054	651	40,403	2,997	6.8	42,002
April.....	86,311	44,538	51.6	44,381	41,156	640	40,516	3,225	7.3	41,773
May.....	86,414	44,819	51.9	44,663	41,165	708	40,457	3,498	7.8	41,595

¹ See footnote 1, table A-1.

² See footnote 2, table A-1.

HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	May 1980										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
MALES											
16 years and over	61,832	77.8	59,901	55,750	4,151	6.9	17,640	363	4,263	1,811	11,204
16 to 21 years	8,594	67.8	7,953	6,635	1,318	16.6	4,081	9	3,528	25	520
16 to 19 years	5,021	59.9	4,746	3,916	829	17.5	3,368	6	3,013	9	339
16 to 17 years	1,989	48.2	1,972	1,596	376	19.1	2,133	2	2,006	6	119
18 to 19 years	3,033	71.1	2,773	2,320	453	16.3	1,235	4	1,007	4	220
20 to 64 years	54,924	89.6	53,269	50,005	3,263	6.1	6,353	164	1,248	1,336	3,607
20 to 24 years	9,024	87.2	8,295	7,238	1,057	12.7	1,328	18	906	47	357
25 to 54 years	38,708	94.3	37,783	35,821	1,962	5.2	2,325	86	332	710	1,197
25 to 29 years	8,752	94.5	8,391	7,717	674	8.0	505	15	210	61	219
30 to 34 years	8,110	96.4	7,858	7,414	443	5.6	302	13	54	69	165
35 to 39 years	6,508	96.0	6,319	6,030	289	4.6	272	12	28	95	137
40 to 44 years	5,331	94.7	5,245	5,034	211	4.0	298	13	18	110	156
45 to 49 years	5,007	93.5	4,977	4,795	182	3.7	348	12	10	135	191
50 to 54 years	4,998	89.3	4,992	4,829	163	3.3	601	20	13	240	329
55 to 64 years	7,192	72.7	7,191	6,946	245	3.4	2,699	59	8	579	2,053
55 to 59 years	4,413	82.2	4,412	4,264	148	3.4	958	29	8	286	634
60 to 64 years	2,779	61.5	2,779	2,682	96	3.5	1,742	30	--	292	1,419
65 years and over	1,887	19.2	1,887	1,829	59	3.1	7,919	193	2	465	7,258
65 to 69 years	1,104	28.9	1,104	1,065	39	3.5	2,712	55	2	155	2,500
70 years and over	783	13.1	783	764	20	2.5	5,207	138	1	310	4,759
White											
16 years and over	55,001	78.7	53,505	50,174	3,331	6.2	14,873	279	3,349	1,442	9,802
16 to 21 years	7,554	70.3	7,075	6,009	1,067	15.1	3,185	7	2,757	20	401
16 to 19 years	4,458	62.9	4,251	3,577	674	15.9	2,627	5	2,348	10	264
16 to 17 years	1,785	51.6	1,771	1,469	302	17.1	1,676	2	1,573	5	95
18 to 19 years	2,673	73.8	2,480	2,108	372	15.0	950	2	774	5	169
20 to 64 years	48,825	90.5	47,538	44,925	2,613	5.5	5,139	110	1,000	1,062	2,967
20 to 24 years	7,833	88.2	7,289	6,415	874	12.0	1,046	10	747	32	258
25 to 54 years	34,395	95.1	33,654	32,114	1,540	4.6	1,758	56	251	558	893
25 to 29 years	14,873	96.1	14,389	13,514	875	6.1	603	18	208	107	271
30 to 34 years	10,566	96.3	10,336	9,934	402	3.9	411	20	30	147	214
35 to 39 years	8,966	92.3	8,928	8,666	262	2.9	743	18	13	303	409
55 to 64 years	6,598	73.9	6,596	6,396	200	3.0	2,335	44	3	473	1,816
55 to 59 years	4,041	83.5	4,040	3,915	125	3.1	799	21	3	231	544
60 to 64 years	2,557	62.5	2,556	2,481	75	2.9	1,536	23	--	241	1,272
65 years and over	1,715	19.4	1,715	1,672	43	2.5	7,107	164	1	371	6,571
Black and other											
16 years and over	6,831	71.2	6,397	5,576	820	12.8	2,767	84	914	368	1,402
16 to 21 years	1,040	53.7	878	627	251	28.6	896	2	771	5	119
16 to 19 years	564	43.2	494	340	155	31.3	741	1	666	--	75
16 to 17 years	204	30.8	201	127	74	36.7	457	--	433	--	24
18 to 19 years	360	55.9	293	212	81	27.6	284	1	233	--	51
20 to 64 years	6,094	83.4	5,729	5,080	649	11.3	1,214	54	246	274	640
20 to 24 years	1,192	80.9	1,007	824	183	18.2	282	8	160	15	99
25 to 54 years	4,305	88.4	4,129	3,707	422	10.2	568	30	82	153	304
25 to 29 years	1,990	90.7	1,860	1,617	242	13.0	204	11	57	23	113
30 to 34 years	1,274	88.9	1,228	1,131	97	7.9	158	5	16	58	79
35 to 44 years	1,045	83.5	1,041	959	82	7.9	206	15	9	71	111
55 to 64 years	594	62.0	594	550	45	7.5	364	15	5	106	237
55 to 59 years	372	70.2	372	349	23	6.3	158	8	5	55	90
60 to 64 years	222	51.9	222	201	21	9.6	206	8	--	51	147
65 years and over	173	17.5	173	157	16	9.3	812	29	2	94	687

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

[Numbers in thousands]

Sex, age, and race	May 1980										
	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	44,283	51.2	44,126	40,959	3,168	7.2	42,131	31,884	4,381	1,232	4,635
16 to 21 years	6,987	56.3	6,925	5,783	1,142	16.5	5,420	1,340	3,611	23	447
16 to 19 years	4,185	51.1	4,157	3,400	756	18.2	4,011	616	3,102	9	283
16 to 17 years	1,623	40.7	1,622	1,279	343	21.2	2,363	158	2,114	1	90
18 to 19 years	2,561	60.9	2,535	2,121	413	16.3	1,648	458	988	8	193
20 to 64 years	38,935	60.6	38,807	36,430	2,376	6.1	25,278	21,557	1,271	579	1,871
20 to 24 years	7,010	67.8	6,934	6,178	757	10.9	3,330	2,115	844	32	338
25 to 54 years	27,342	63.9	27,289	25,817	1,472	5.4	15,475	13,899	418	312	846
25 to 29 years	6,253	66.3	6,217	5,748	469	7.5	3,181	2,785	175	34	186
30 to 34 years	5,542	64.2	5,531	5,221	310	5.6	3,090	2,811	105	42	132
35 to 39 years	4,655	65.3	4,652	4,430	222	4.8	2,471	2,246	61	46	116
40 to 44 years	3,986	66.7	3,984	3,795	189	4.7	1,989	1,814	34	29	113
45 to 49 years	3,512	62.2	3,512	3,374	138	3.9	2,134	1,931	34	51	118
50 to 54 years	3,393	56.5	3,393	3,249	144	4.3	2,610	2,312	8	110	180
55 to 64 years	4,584	41.5	4,584	4,436	148	3.2	6,472	5,542	9	234	687
55 to 59 years	2,864	48.5	2,864	2,766	98	3.4	3,043	2,666	3	118	256
60 to 64 years	1,715	33.4	1,719	1,669	50	2.9	3,429	2,877	5	116	431
65 years and over	1,163	8.3	1,163	1,128	35	3.0	12,843	9,711	8	644	2,480
65 to 69 years	747	15.7	747	719	29	3.8	4,015	3,226	5	119	664
70 years and over	416	4.5	416	410	6	1.5	8,828	6,485	3	524	1,815
White											
16 years and over	38,310	51.0	38,194	35,806	2,388	6.3	36,832	28,474	3,432	922	4,605
16 to 21 years	6,145	58.9	6,099	5,242	857	14.1	4,280	1,069	2,861	17	333
16 to 19 years	3,732	54.3	3,713	3,124	589	15.9	3,141	481	2,436	6	217
16 to 17 years	1,446	43.4	1,445	1,183	262	18.1	1,884	121	1,690	1	72
18 to 19 years	2,287	64.5	2,268	1,941	327	14.4	1,257	361	746	6	145
20 to 64 years	33,545	60.3	33,449	31,682	1,768	5.3	22,042	19,068	991	418	1,565
20 to 24 years	6,055	69.4	5,999	5,461	537	9.0	2,674	1,742	663	20	249
25 to 54 years	23,425	63.4	23,385	22,282	1,104	4.7	13,516	12,268	319	226	703
25 to 29 years	10,003	64.8	9,968	9,417	551	5.5	5,439	4,912	206	58	263
30 to 34 years	7,428	65.6	7,424	7,096	329	4.4	3,891	3,579	80	53	179
35 to 44 years	5,994	58.9	5,994	5,769	224	3.7	4,186	3,777	33	116	260
45 to 54 years	4,065	41.0	4,065	3,939	126	3.1	5,852	5,058	9	171	614
55 to 59 years	2,534	47.9	2,534	2,453	80	3.2	2,751	2,427	3	91	230
60 to 64 years	1,531	33.1	1,531	1,486	46	3.0	3,101	2,632	6	81	383
65 years and over	1,032	8.1	1,032	1,000	31	3.0	11,650	8,924	5	497	2,223
Black and other											
16 years and over	5,973	53.0	5,933	5,153	780	13.1	5,299	3,410	949	310	630
16 to 21 years	842	42.5	825	541	284	34.4	1,140	271	750	6	114
16 to 19 years	452	34.2	444	277	167	37.7	870	135	666	2	66
16 to 17 years	177	27.0	177	96	81	45.6	479	37	424	--	18
18 to 19 years	275	41.3	267	181	86	32.4	391	97	243	3	48
20 to 64 years	5,390	62.5	5,358	4,748	610	11.4	3,235	2,489	279	160	307
20 to 24 years	955	59.3	936	716	219	23.4	656	374	181	12	90
25 to 54 years	3,916	66.7	3,903	3,535	369	9.5	1,959	1,631	99	86	143
25 to 29 years	1,792	68.3	1,780	1,552	227	12.8	832	684	75	18	55
30 to 34 years	1,213	68.1	1,212	1,130	82	6.8	569	481	15	23	51
35 to 44 years	911	62.0	911	853	58	6.4	558	466	9	45	38
45 to 54 years	519	45.5	519	497	22	4.2	620	484	--	63	74
55 to 59 years	331	53.1	331	313	17	5.3	292	239	--	27	26
60 to 64 years	188	36.4	188	184	4	2.3	329	245	--	36	48
65 years and over	131	9.9	131	128	3	2.5	1,194	787	3	147	257

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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	
	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980
MALES								
16 years and over	60,812	61,832	77.7	77.8	58,868	59,901	77.2	77.3
16 to 19 years	5,043	5,021	59.8	59.9	4,763	4,746	58.4	58.5
16 to 17 years	2,040	1,989	48.8	48.2	2,028	1,972	48.7	48.0
18 to 19 years	3,003	3,033	70.5	71.1	2,735	2,773	68.5	69.2
20 to 24 years	8,806	9,024	86.0	87.2	8,063	8,295	84.9	86.2
25 to 34 years	37,921	38,708	94.3	94.3	37,002	37,783	94.2	94.2
25 to 34 years	16,332	16,863	95.6	95.4	15,725	16,249	95.4	95.3
35 to 44 years	11,521	11,839	95.4	95.4	11,245	11,565	95.3	95.3
45 to 54 years	10,069	10,005	91.2	91.3	10,032	9,969	91.2	91.3
55 to 64 years	7,112	7,192	72.8	72.7	7,111	7,191	72.8	72.7
55 to 59 years	4,368	4,413	81.6	82.2	4,367	4,412	81.6	82.2
60 to 64 years	2,745	2,779	62.2	61.5	2,745	2,779	62.2	61.5
65 years and over	1,929	1,887	20.1	19.2	1,929	1,887	20.1	19.2
White								
16 years and over	54,073	55,001	78.5	78.7	52,530	53,505	78.0	78.2
16 to 19 years	4,479	4,458	62.7	62.9	4,263	4,251	61.5	61.8
16 to 17 years	1,842	1,785	52.4	51.6	1,832	1,771	52.2	51.4
18 to 19 years	2,637	2,673	72.7	73.8	2,431	2,480	71.0	72.3
20 to 24 years	7,647	7,833	86.8	88.2	7,075	7,289	85.9	87.4
25 to 34 years	33,725	34,399	95.0	95.1	32,972	33,654	94.9	95.0
25 to 34 years	14,439	14,873	96.2	96.1	13,950	14,389	96.1	96.0
35 to 44 years	10,280	10,566	96.2	96.3	10,047	10,336	96.1	96.2
45 to 54 years	9,007	8,960	91.9	92.3	8,975	8,928	91.9	92.3
55 to 64 years	6,494	6,598	73.5	73.9	6,493	6,596	73.5	73.9
55 to 59 years	3,987	4,041	82.6	83.5	3,986	4,040	82.6	83.5
60 to 64 years	2,507	2,557	62.6	62.5	2,507	2,556	62.6	62.5
65 years and over	1,728	1,715	20.0	19.4	1,728	1,715	20.0	19.4
Black and other								
16 years and over	6,739	6,831	72.2	71.2	6,338	6,397	71.0	69.8
16 to 19 years	564	564	43.7	43.2	500	494	40.7	40.0
16 to 17 years	198	204	30.0	30.8	196	201	29.9	30.5
18 to 19 years	366	360	57.8	55.9	304	293	53.2	50.8
20 to 24 years	1,159	1,192	80.8	80.9	988	1,007	78.2	78.1
25 to 34 years	4,197	4,309	89.1	88.4	4,030	4,129	88.7	87.9
25 to 34 years	1,893	1,990	90.8	90.7	1,775	1,860	90.2	90.1
35 to 44 years	1,242	1,274	89.5	88.9	1,198	1,228	89.1	88.6
45 to 54 years	1,062	1,045	85.7	83.5	1,058	1,041	85.7	83.5
55 to 64 years	619	594	66.1	62.0	619	594	66.1	62.0
55 to 59 years	381	372	72.1	70.2	381	372	72.1	70.2
60 to 64 years	238	222	58.3	51.9	238	222	58.3	51.9
65 years and over	201	173	21.1	17.5	201	173	21.1	17.5

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	
	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980
FEMALES								
16 years and over	42,740	44,283	50.3	51.2	42,605	44,126	50.2	51.2
16 to 19 years	4,226	4,185	51.2	51.1	4,203	4,157	51.1	50.9
16 to 17 years	1,651	1,623	40.8	40.7	1,651	1,622	40.8	40.7
18 to 19 years	2,575	2,561	61.2	60.9	2,553	2,535	61.0	60.6
20 to 24 years	6,957	7,010	68.0	67.8	6,888	6,934	67.8	67.6
25 to 54 years	25,843	27,342	61.6	63.9	25,799	27,289	61.5	63.8
25 to 34 years	11,047	11,795	63.3	65.3	11,008	11,747	63.2	65.2
35 to 44 years	8,093	8,641	63.5	66.0	8,089	8,637	63.5	65.9
45 to 54 years	6,703	6,906	57.0	59.3	6,702	6,905	57.0	59.3
55 to 64 years	4,549	4,584	41.7	41.5	4,549	4,584	41.7	41.5
55 to 59 years	2,838	2,864	48.3	48.5	2,838	2,864	48.3	48.5
60 to 64 years	1,711	1,719	34.0	33.4	1,711	1,719	34.0	33.4
65 years and over	1,166	1,163	8.5	8.3	1,166	1,163	8.5	8.3
White								
16 years and over	37,031	38,310	50.0	51.0	36,926	38,194	49.9	50.9
16 to 19 years	3,779	3,732	54.5	54.3	3,762	3,713	54.4	54.2
16 to 17 years	1,502	1,446	44.3	43.4	1,501	1,445	44.3	43.4
18 to 19 years	2,278	2,287	64.2	64.5	2,261	2,268	64.0	64.3
20 to 24 years	6,045	6,055	69.9	69.4	5,992	5,999	69.7	69.2
25 to 54 years	22,128	23,425	61.0	63.4	22,094	23,385	60.9	63.4
25 to 34 years	9,354	10,003	62.5	64.8	9,324	9,968	62.5	64.7
35 to 44 years	6,929	7,428	62.9	65.6	6,926	7,424	62.9	65.6
45 to 54 years	5,846	5,994	56.7	58.9	5,845	5,994	56.7	58.9
55 to 64 years	4,058	4,065	41.4	41.0	4,058	4,065	41.4	41.0
55 to 59 years	2,534	2,534	48.1	47.9	2,534	2,534	48.1	47.9
60 to 64 years	1,524	1,531	33.6	33.1	1,524	1,531	33.6	33.1
65 years and over	1,021	1,032	8.2	8.1	1,021	1,032	8.2	8.1
Black and other								
16 years and over	5,709	5,973	52.1	53.0	5,679	5,933	52.0	52.8
16 to 19 years	447	452	34.0	34.2	442	444	33.7	33.8
16 to 17 years	150	177	22.8	27.0	149	177	22.8	27.0
18 to 19 years	297	275	45.1	41.3	292	267	44.7	40.6
20 to 24 years	912	955	57.9	59.3	897	936	57.5	58.8
25 to 54 years	3,715	3,916	65.5	66.7	3,705	3,903	65.4	66.6
25 to 34 years	1,694	1,792	67.7	68.3	1,685	1,780	67.6	68.1
35 to 44 years	1,164	1,213	67.6	68.1	1,163	1,212	67.6	68.0
45 to 54 years	857	911	59.1	62.0	857	911	59.1	62.0
55 to 64 years	491	519	44.3	45.5	491	519	44.3	45.5
55 to 59 years	304	331	49.4	53.1	304	331	49.4	53.1
60 to 64 years	187	188	38.1	36.4	187	188	38.1	36.4
65 years and over	145	131	11.3	9.9	145	131	11.3	9.9

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

[Numbers in thousands]

Sex and age	May 1980						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
TOTAL							
16 years and over	10,447	9,019	220	8,799	1,428	13.7	6,916
16 to 19 years	802	507	20	487	294	36.7	1,423
16 to 17 years	314	177	9	168	137	43.6	838
18 to 19 years	488	330	11	319	157	32.3	586
20 to 24 years	1,684	1,319	36	1,283	365	21.7	776
25 to 54 years	6,729	6,033	124	5,908	696	10.3	2,096
25 to 34 years	3,037	2,616	36	2,580	421	13.9	820
35 to 44 years	2,054	1,897	60	1,837	156	7.6	621
45 to 54 years	1,639	1,520	28	1,492	119	7.3	655
55 to 64 years	964	909	22	887	55	5.7	874
55 to 59 years	602	569	16	554	33	5.4	394
60 to 64 years	362	339	6	334	22	6.2	480
65 years and over	268	251	18	233	17	6.4	1,747
Males							
16 years and over	5,411	4,683	184	4,499	729	13.5	2,371
16 to 19 years	429	289	15	274	139	32.4	650
16 to 17 years	168	104	5	99	64	38.1	411
18 to 19 years	262	185	10	175	75	28.6	239
20 to 24 years	873	706	31	676	166	19.0	215
25 to 54 years	3,456	3,086	100	2,986	370	10.7	487
25 to 34 years	1,545	1,332	28	1,303	214	13.9	160
35 to 44 years	1,032	950	44	905	81	7.8	146
45 to 54 years	880	805	27	779	75	8.5	181
55 to 64 years	509	470	22	449	39	7.7	328
55 to 59 years	316	295	15	280	21	6.6	143
60 to 64 years	193	175	6	169	18	9.3	184
65 years and over	144	130	17	113	13	9.0	693
Females							
16 years and over	5,036	4,336	36	4,300	699	13.9	4,545
16 to 19 years	373	218	5	213	155	41.6	773
16 to 17 years	146	73	4	69	73	50.2	427
18 to 19 years	226	145	1	144	82	36.0	347
20 to 24 years	811	613	5	607	199	24.5	561
25 to 54 years	3,273	2,947	24	2,922	326	10.0	1,609
25 to 34 years	1,492	1,284	8	1,277	207	13.9	660
35 to 44 years	1,022	947	16	932	75	7.3	475
45 to 54 years	759	715	1	713	44	5.8	474
55 to 64 years	455	439	—	438	16	3.5	546
55 to 59 years	286	274	1	274	12	4.1	251
60 to 64 years	169	164	—	165	4	2.5	296
65 years and over	124	121	1	120	4	2.9	1,054

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

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

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980
TOTAL								
Total noninstitutional population	163,260	165,886	69,787	71,083	76,782	78,219	16,692	16,584
Total labor force	103,552	106,115	55,769	56,811	38,514	40,098	9,269	9,206
Percent of population	63.4	64.0	79.9	79.9	50.2	51.3	55.5	55.5
Civilian labor force	101,473	104,028	54,105	55,156	38,402	39,970	8,966	8,902
Employed	96,220	96,709	52,175	51,834	36,413	37,558	7,632	7,317
Agriculture	3,309	3,436	2,342	2,422	597	635	370	378
Nonagricultural industries	92,911	93,273	49,833	49,412	35,816	36,923	7,262	6,939
Unemployed	5,253	7,318	1,930	3,322	1,989	2,411	1,334	1,585
Percent of labor force	5.2	7.0	3.6	6.0	5.2	6.0	14.9	17.8
Not in labor force	59,708	59,771	14,018	14,272	38,268	38,121	7,423	7,378
White								
Total noninstitutional population	142,978	145,016	61,749	62,790	67,143	68,269	14,086	13,957
Total labor force	91,103	93,311	49,593	50,544	33,251	34,577	8,259	8,190
Percent of population	63.7	64.3	80.3	80.5	49.5	50.6	58.6	58.7
Civilian labor force	89,456	91,698	48,268	49,253	33,164	34,481	8,025	7,964
Employed	85,482	85,980	46,792	46,597	31,667	32,682	7,023	6,700
Agriculture	3,036	3,164	2,185	2,216	542	594	349	354
Nonagricultural industries	82,446	82,816	44,617	44,381	31,125	32,088	6,674	6,347
Unemployed	3,974	5,719	1,475	2,656	1,497	1,799	1,002	1,264
Percent of labor force	4.4	6.2	3.1	5.4	4.5	5.2	12.5	15.9
Not in labor force	51,875	51,705	12,156	12,246	33,891	33,692	5,827	5,767
Black and other								
Total noninstitutional population	20,282	20,870	8,037	8,293	9,639	9,950	2,605	2,627
Total labor force	12,448	12,804	6,175	6,267	5,263	5,521	1,010	1,016
Percent of population	61.4	61.4	76.8	75.6	54.6	55.5	38.8	38.7
Civilian labor force	12,017	12,329	5,838	5,902	5,238	5,489	941	938
Employed	10,738	10,729	5,383	5,237	4,745	4,876	610	616
Agriculture	273	272	197	207	54	41	21	24
Nonagricultural industries	10,465	10,457	5,186	5,030	4,691	4,835	588	592
Unemployed	1,279	1,600	455	665	492	613	332	322
Percent of labor force	10.6	13.0	7.8	11.3	9.4	11.2	35.3	34.3
Not in labor force	7,833	8,066	1,862	2,026	4,376	4,429	1,595	1,611

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

(Numbers in thousands)

Employment status	May 1980								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	25,082	12,675	12,407	21,163	10,738	10,425	3,918	1,936	1,982
Total labor force	15,580	8,594	6,987	13,698	7,554	6,145	1,882	1,040	842
Percent of population	62.1	67.8	56.3	64.7	70.3	58.9	48.0	53.7	42.5
Civilian labor force	14,878	7,953	6,925	13,175	7,075	6,099	1,703	878	825
Employed	12,418	6,635	5,783	11,250	6,009	5,242	1,168	627	541
Agriculture	561	451	111	517	417	100	44	33	11
Nonagricultural industries	11,857	6,184	5,672	10,733	5,591	5,142	1,124	593	531
Unemployed	2,460	1,318	1,142	1,924	1,067	857	536	251	284
Looking for full-time work	1,799	994	805	1,407	806	601	392	189	203
Looking for part-time work	661	324	337	517	261	256	144	63	81
Percent of labor force	16.5	16.6	16.5	14.6	15.1	14.1	31.5	28.6	34.4
Not in labor force	9,501	4,081	5,420	7,465	3,185	4,280	2,036	896	1,140
Major activity: going to school									
Civilian labor force	4,247	2,302	1,945	3,772	2,051	1,721	475	251	224
Employed	3,444	1,872	1,572	3,175	1,723	1,452	268	149	120
Agriculture	196	158	38	181	147	34	15	11	5
Nonagricultural industries	3,248	1,714	1,533	2,994	1,576	1,418	253	138	115
Unemployed	803	430	374	597	328	269	206	102	105
Looking for full-time work	331	170	160	237	121	116	93	49	44
Looking for part-time work	473	259	213	359	207	153	113	52	61
Percent of labor force	18.9	18.7	19.2	15.8	16.0	15.6	43.4	40.6	46.7
Not in labor force	7,139	3,528	3,611	5,618	2,757	2,861	1,521	771	750
Major activity: other									
Civilian labor force	10,631	5,652	4,980	9,403	5,024	4,378	1,229	627	601
Employed	8,974	4,763	4,211	8,075	4,285	3,790	899	478	422
Agriculture	365	293	72	336	270	66	29	23	6
Nonagricultural industries	8,609	4,470	4,139	7,739	4,015	3,724	870	455	416
Unemployed	1,657	889	768	1,327	739	588	330	150	180
Looking for full-time work	1,469	824	645	1,169	685	485	299	140	160
Looking for part-time work	188	65	124	158	54	103	30	10	20
Percent of labor force	15.6	15.7	15.4	14.1	14.7	13.4	26.8	23.9	29.9
Not in labor force	2,362	553	1,809	1,847	428	1,419	516	125	390

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

(Numbers in thousands)

Race, sex, and age	May 1980								
	Full-time labor force					Part-time labor force			
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time ¹	Unemployed (looking for part-time work)	
		Full-time schedules ¹	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
Both sexes, 16 years and over.....	88,213	77,693	4,318	6,203	7.0	15,815	14,699	1,116	7.1
16 to 21 years.....	9,216	6,483	934	1,799	19.5	5,662	5,002	661	11.7
16 to 19 years.....	4,278	2,753	487	1,038	24.3	4,624	4,077	548	11.8
16 to 17 years.....	799	349	125	325	40.7	2,795	2,401	394	14.1
18 to 19 years.....	3,479	2,405	362	713	20.5	1,829	1,675	154	8.4
20 years and over.....	83,935	74,939	3,831	5,165	6.2	11,190	10,622	568	5.1
20 to 24 years.....	13,270	10,721	930	1,619	12.2	1,960	1,765	195	9.9
25 years and over.....	70,664	64,217	2,900	3,547	5.0	9,230	8,857	373	4.0
25 to 54 years.....	58,789	53,263	2,373	3,153	5.4	6,282	6,000	281	4.5
55 years and over.....	11,876	10,954	527	394	3.3	2,949	2,857	92	3.1
Males, 16 years and over.....	54,685	48,873	2,098	3,713	6.8	5,217	4,779	437	8.4
16 to 21 years.....	5,123	3,632	497	994	19.4	2,830	2,506	324	11.5
16 to 19 years.....	2,370	1,582	238	550	23.2	2,375	2,096	279	11.7
16 to 17 years.....	52,314	47,291	1,860	3,163	6.0	2,841	2,683	158	5.6
18 to 19 years.....	7,502	5,992	518	991	13.2	794	728	66	8.3
20 years and over.....	44,812	41,299	1,342	2,172	4.8	2,048	1,954	93	4.5
20 to 24 years.....	36,994	34,000	1,076	1,919	5.2	788	745	43	5.5
25 years and over.....	7,818	7,299	266	253	3.2	1,260	1,209	50	4.0
Females, 16 years and over.....	33,528	28,819	2,220	2,489	7.4	10,598	9,920	678	6.4
16 to 21 years.....	4,092	2,851	437	805	19.7	2,832	2,495	337	11.9
16 to 19 years.....	1,908	1,171	249	487	25.6	2,249	1,980	269	12.0
16 to 17 years.....	31,621	27,648	1,971	2,002	6.3	8,349	7,939	410	4.9
18 to 19 years.....	5,769	4,729	412	628	10.9	1,166	1,037	129	11.1
20 years and over.....	25,852	22,919	1,558	1,375	5.3	7,183	6,903	280	3.9
20 to 24 years.....	21,795	19,265	1,297	1,234	5.7	5,494	5,255	238	4.3
25 years and over.....	4,058	3,655	262	141	3.5	1,689	1,647	42	2.5
White									
Males, 16 years and over.....	48,876	44,091	1,805	2,980	6.1	4,629	4,278	351	7.6
16 to 21 years.....	4,538	3,295	437	806	17.8	2,538	2,277	261	10.3
16 to 19 years.....	2,113	1,450	214	448	21.2	2,138	1,912	226	10.6
16 to 17 years.....	46,763	42,641	1,590	2,531	5.4	2,491	2,366	125	5.0
18 to 19 years.....	6,599	5,341	439	818	12.4	690	634	56	8.1
20 years and over.....	40,164	37,299	1,151	1,713	4.3	1,800	1,731	69	3.8
20 to 24 years.....	32,982	30,552	920	1,509	4.6	672	641	30	4.5
25 years and over.....	7,182	6,747	231	203	2.8	1,129	1,090	39	3.5
Females, 16 years and over.....	28,528	24,849	1,833	1,846	6.5	9,666	9,124	542	5.6
16 to 21 years.....	3,549	2,563	385	601	16.9	2,550	2,294	256	10.0
16 to 19 years.....	1,684	1,075	220	389	23.1	2,029	1,829	200	9.8
16 to 17 years.....	26,844	23,774	1,613	1,457	5.4	7,637	7,295	342	4.5
18 to 19 years.....	4,953	4,169	349	435	8.8	1,046	944	102	9.8
20 years and over.....	21,891	19,605	1,264	1,021	4.7	6,591	6,352	240	3.6
20 to 24 years.....	18,281	16,326	1,056	899	4.9	5,105	4,900	204	4.0
25 years and over.....	3,610	3,279	208	122	3.4	1,487	1,452	35	2.4
Black and other									
Males, 16 years and over.....	5,809	4,782	293	734	12.6	588	501	87	14.7
16 to 21 years.....	586	337	60	189	32.2	292	230	63	21.5
16 to 19 years.....	257	132	24	102	39.5	237	184	53	22.4
16 to 17 years.....	5,551	4,650	269	632	11.4	351	317	34	9.6
18 to 19 years.....	903	651	79	173	19.2	104	94	10	9.7
20 years and over.....	4,648	3,999	191	459	9.9	247	223	24	9.7
20 to 24 years.....	4,011	3,447	156	409	10.2	117	104	13	11.1
25 years and over.....	637	553	35	50	7.8	130	119	11	8.5
Females, 16 years and over.....	5,001	3,970	387	643	12.9	932	796	136	14.6
16 to 21 years.....	543	288	51	203	37.5	282	201	81	28.6
16 to 19 years.....	223	96	29	98	43.9	221	152	69	31.3
16 to 17 years.....	4,777	3,874	358	545	11.4	712	644	67	9.5
18 to 19 years.....	816	560	63	192	23.6	120	93	27	22.5
20 years and over.....	3,961	3,314	295	353	8.9	592	552	41	6.9
20 to 24 years.....	3,514	2,939	241	334	9.5	388	355	34	8.8
25 years and over.....	447	376	54	18	4.0	203	197	7	3.4

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	May 1980									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over	104,028	63.5	96,709	7,318	7.0	59,771	32,247	8,644	3,042	15,839
Husbands ¹	40,818	80.9	39,055	1,763	4.3	9,635	155	217	1,195	8,067
With employed wife	21,009	92.2	20,200	809	3.9	1,784	33	81	366	1,305
With unemployed wife	1,134	92.5	988	146	12.9	92	2	6	33	50
With wife not in labor force	16,945	70.2	16,260	685	4.0	7,187	105	89	722	6,271
Wives	24,020	49.9	22,794	1,226	5.1	24,132	22,007	294	301	1,530
With employed husband	21,188	56.6	20,200	988	4.7	16,259	15,249	233	100	678
With unemployed husband	955	58.2	809	146	15.3	685	644	7	9	25
With husband not in labor force	1,877	20.7	1,785	92	4.9	7,187	6,113	54	193	827
Relatives in husband-wife families	14,231	60.8	12,202	2,029	14.3	9,158	1,258	5,906	417	1,577
16-19 years	6,327	54.7	5,353	974	15.4	5,234	143	4,676	16	398
20-24 years	5,131	75.3	4,398	733	14.3	1,681	190	1,102	42	346
25 years and over	2,773	55.3	2,451	322	11.6	2,243	925	128	359	833
Women who head families	5,097	58.6	4,702	395	7.7	3,599	2,811	128	194	466
Relatives in female-headed families	4,287	55.8	3,481	807	18.8	3,395	803	1,536	263	792
16-19 years	1,398	47.8	999	398	28.5	1,525	111	1,249	3	162
20-24 years	1,304	72.2	1,067	238	18.3	501	118	235	23	125
25 years and over	1,585	53.7	1,415	171	10.8	1,369	574	52	237	505
Persons not living in families ²	15,575	61.3	14,475	1,098	7.0	9,852	5,213	563	672	3,407

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

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

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

Marital status, sex, age, and race	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980
	Total, 16 years and over	2,588	4,151	4.4	6.9	2,665	3,168	6.3	7.2
Married, spouse present	924	1,745	2.3	4.4	1,027	1,316	4.4	5.4
Widowed, divorced, or separated	245	433	5.4	8.6	523	578	6.5	6.9
Single (never married)	1,419	1,973	9.9	13.2	1,115	1,274	10.1	11.3
White, 16 years and over	1,987	3,331	3.8	6.2	1,987	2,388	5.4	6.3
Married, spouse present	758	1,471	2.1	4.0	870	1,101	4.1	5.0
Widowed, divorced, or separated	159	328	4.3	7.9	384	413	5.9	6.1
Single (never married)	1,069	1,531	8.6	11.8	733	874	7.9	9.2
Black and other, 16 years and over	602	820	9.5	12.8	677	780	11.9	13.1
Married, spouse present	166	274	4.6	7.9	157	215	6.5	8.5
Widowed, divorced, or separated	86	104	10.3	11.7	138	165	8.8	10.3
Single (never married)	350	442	18.7	21.8	382	400	22.4	22.3
Total, 20 to 64 years of age	1,862	3,263	3.6	6.1	1,952	2,376	5.2	6.1
Married, spouse present	859	1,667	2.2	4.4	966	1,221	4.2	5.2
Widowed, divorced, or separated	216	423	5.1	8.9	487	544	6.6	7.1
Single (never married)	787	1,173	8.1	11.3	499	612	7.0	8.3
White, 20 to 64 years of age	1,423	2,613	3.1	5.5	1,466	1,768	4.6	5.3
Married, spouse present	699	1,410	2.0	4.1	816	1,009	4.0	4.8
Widowed, divorced, or separated	144	320	4.1	8.2	355	384	6.0	6.2
Single (never married)	581	883	7.0	10.0	295	375	5.1	6.2
Black and other, 20 to 64 years of age	439	649	7.8	11.3	486	610	9.5	11.4
Married, spouse present	160	258	4.6	7.7	151	212	6.5	8.6
Widowed, divorced, or separated	72	102	9.3	11.9	132	160	8.9	10.6
Single (never married)	206	289	15.1	18.9	203	237	15.8	17.3

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980
Total, 16 years and over	5,253	7,318	5.2	7.0	4.4	6.9	6.3	7.2
White-collar workers	1,487	1,854	2.9	3.5	2.0	2.7	3.4	4.3
Professional and technical	275	357	1.8	2.2	1.3	1.9	2.4	2.7
Managers and administrators, except farm	221	285	2.1	2.6	1.7	2.2	3.4	3.7
Sales workers	238	269	3.8	4.3	2.6	3.4	5.3	5.4
Clerical workers	754	943	4.2	5.0	3.9	5.2	4.2	4.9
Blue-collar workers	2,082	3,510	6.1	10.3	5.3	9.5	9.6	13.6
Craft and kindred workers	481	933	3.6	7.0	3.6	6.9	3.5	8.2
Carpenters and other construction craft	244	468	6.0	11.0	6.0	11.0	(1)	(1)
All other	237	465	2.6	5.1	2.5	4.9	3.6	8.0
Operatives, except transport	887	1,553	7.7	13.2	5.7	11.9	10.6	15.0
Transport equipment operatives	187	305	4.8	8.1	4.8	8.3	5.2	5.2
Nonfarm laborers	526	719	10.0	13.8	9.7	13.9	11.8	13.6
Construction laborers	173	211	16.7	20.8	16.4	20.5	(1)	(1)
All other	353	508	8.3	12.1	7.9	12.1	10.9	12.5
Service workers	856	1,035	6.3	7.4	5.2	8.4	6.9	6.9
Private household	48	47	4.6	4.4	(1)	(1)	4.7	4.2
All other	808	989	6.4	7.7	5.2	8.4	7.2	7.2
Farm workers	67	94	2.4	3.2	2.4	2.8	2.5	5.0
No previous work experience	762	825	--	--	--	--	--	--
18 to 19 years	582	601	--	--	--	--	--	--
20 to 24 years	116	142	--	--	--	--	--	--
25 years and over	64	82	--	--	--	--	--	--

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

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

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980
Total, 16 years and over	100.0	100.0	5.2	7.0	4.4	6.9	6.3	7.2
Nonagricultural private wage and salary workers	72.6	77.3	5.2	7.5	4.4	7.6	6.3	7.3
Mining	.8	.6	4.7	4.6	4.7	5.3	4.6	--
Construction	8.0	10.4	8.5	14.9	8.7	15.5	5.6	7.2
Manufacturing	21.4	28.9	5.0	9.2	3.6	8.1	8.1	11.4
Durable goods	10.7	18.6	4.1	9.8	3.5	9.2	5.9	11.6
Lumber and wood products	1.1	1.3	9.1	15.4	9.2	15.5	(1)	14.9
Furniture and fixtures	.6	.6	5.9	8.3	5.7	7.5	6.2	9.9
Stone, clay, and glass products	.6	1.0	5.0	10.5	4.1	9.4	8.4	15.2
Primary metal industries	.9	1.4	3.6	7.9	3.3	7.7	5.5	9.6
Fabricated metal products	1.2	2.9	4.4	13.7	4.4	13.2	4.4	15.4
Machinery, except electrical equipment	1.6	1.7	3.1	4.3	2.5	4.2	5.9	4.8
Electrical equipment	1.9	2.6	4.2	7.7	3.2	5.6	5.3	10.4
Transportation equipment	1.5	5.9	3.3	18.0	2.6	17.2	6.5	21.7
Automobiles	.9	5.0	3.4	27.9	2.6	26.4	6.8	34.7
Other transportation equipment	.6	.8	3.2	5.8	2.6	5.8	5.5	6.0
Instruments and related products	.4	.4	3.6	4.5	2.1	1.2	5.1	8.7
Other durable goods industries	.7	.9	4.9	8.1	3.2	5.3	7.6	12.2
Nondurable goods	10.7	10.2	6.4	8.2	3.7	6.0	10.4	11.2
Food and kindred products	3.0	2.5	8.8	9.6	4.6	6.7	18.5	15.7
Textile mill products	1.1	1.0	6.9	8.6	2.6	6.2	12.1	11.4
Apparel and other textile products	2.6	2.3	9.9	11.6	6.4	8.8	10.8	12.4
Paper and allied products	.4	.9	3.1	8.4	2.1	6.5	6.8	14.0
Printing and publishing	1.5	1.3	5.7	6.3	4.4	6.2	7.7	6.4
Chemicals and allied products	.8	.6	3.3	3.1	2.8	2.7	5.1	4.0
Rubber and plastics products	.5	1.0	3.6	9.0	2.4	7.7	5.7	11.6
Other nondurable goods industries	.7	.8	6.3	9.6	5.4	6.2	7.6	13.5
Transportation and public utilities	3.4	3.5	3.3	4.7	2.9	4.9	4.4	4.2
Railroads and railway express	.2	.2	1.2	2.9	1.0	2.5	(1)	(1)
Other transportation	2.6	2.6	5.4	7.5	5.0	7.7	6.8	6.8
Communication and other public utilities	.6	.7	1.4	2.2	.6	2.1	3.0	2.3
Wholesale and retail trade	20.3	17.5	5.8	6.9	4.4	6.2	7.3	7.7
Finance, insurance, and real estate	2.9	2.4	3.0	3.3	2.3	3.2	3.4	3.3
Service industries	15.8	13.9	5.1	5.9	4.7	6.1	5.2	5.8
Professional services	6.7	5.8	3.7	4.2	3.1	3.6	4.0	4.4
All other service industries	9.1	8.2	6.9	8.5	6.2	8.5	7.5	8.4
Agricultural wage and salary workers	1.9	1.7	6.6	8.2	6.5	7.6	6.7	10.6
All other classes of workers	11.0	9.7	2.3	2.7	2.0	2.6	2.6	2.9
No previous work experience	14.5	11.3	--	--	--	--	--	--

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

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands.....	5,253	7,318	1,930	3,322	1,989	2,411	1,334	1,585	3,974	5,719	1,279	1,600
Job losers.....	2,697	3,824	1,150	2,349	733	1,113	213	362	1,596	3,070	501	755
On layoff.....	572	1,528	274	985	248	423	50	120	474	1,268	99	259
Other job losers.....	1,525	2,296	876	1,364	485	690	163	242	1,122	1,802	402	496
Job leavers.....	782	826	319	351	316	331	147	144	637	659	145	167
Reentrants.....	1,614	1,844	404	541	818	824	392	480	1,189	1,390	425	454
New entrants.....	761	823	57	81	122	144	581	599	552	599	209	224
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.....	39.9	52.3	59.6	70.8	36.9	46.1	16.0	22.8	40.1	53.7	39.1	47.2
On layoff.....	10.9	20.9	14.2	29.7	12.5	17.5	3.7	7.5	11.9	22.2	7.7	16.2
Other job losers.....	29.0	31.4	45.4	41.1	24.4	28.6	12.3	15.3	28.2	31.5	31.4	31.0
Job leavers.....	14.9	11.3	16.5	10.6	15.9	13.7	11.0	9.1	16.0	11.5	11.3	10.4
Reentrants.....	30.7	25.2	20.9	16.3	41.1	34.2	29.4	30.3	29.9	24.3	33.2	28.4
New entrants.....	14.5	11.3	3.0	2.4	6.1	6.0	43.6	37.8	13.9	10.5	16.3	14.0
UNEMPLOYMENT RATE												
Total unemployment rate.....	5.2	7.0	3.6	6.0	5.2	6.0	14.9	17.8	4.4	6.2	10.6	13.0
Job loser rate ¹	2.1	3.7	2.1	4.3	1.9	2.8	2.4	4.0	1.8	3.4	4.1	6.1
Job leaver rate ¹.....	.8	.8	.6	.6	.8	.8	1.6	1.6	.7	.7	1.2	1.4
Reentrant rate ¹	1.6	1.8	.7	1.0	2.1	2.1	4.4	5.4	1.3	1.5	3.5	3.7
New entrant rate ¹.....	.7	.8	.1	.1	.3	.4	6.5	6.7	.6	.7	1.7	1.8

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

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

[Percent distribution]

Reason, sex, and age	May 1980						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over	15 to 26 weeks	27 weeks and over
Total, 16 years and over.....	7,318	100.0	46.8	27.9	25.3	15.0	10.2
Job losers.....	3,824	100.0	39.2	29.5	31.3	19.5	11.8
On layoff.....	1,528	100.0	52.0	25.0	23.0	16.4	6.5
Other job losers.....	2,296	100.0	30.7	32.5	36.8	21.5	15.3
Job leavers.....	826	100.0	49.1	29.0	21.9	11.2	10.7
Reentrants.....	1,844	100.0	56.3	26.3	17.4	10.2	7.2
New entrants.....	823	100.0	58.5	23.2	18.3	9.1	9.2
Males, 20 years and over.....	3,322	100.0	40.2	29.0	30.8	18.0	12.9
Job losers.....	2,349	100.0	37.6	29.0	33.4	20.4	13.0
On layoff.....	985	100.0	51.9	25.4	22.7	16.7	6.0
Other job losers.....	1,364	100.0	27.3	31.6	41.1	23.1	18.0
Job leavers.....	351	100.0	45.4	30.6	24.1	9.2	14.8
Reentrants.....	541	100.0	47.0	29.2	23.7	13.2	10.5
New entrants.....	81	100.0	45.1	22.3	32.6	16.5	16.2
Females, 20 years and over.....	2,411	100.0	47.9	28.9	23.2	14.1	9.1
Job losers.....	1,113	100.0	39.6	30.7	29.7	18.8	10.9
On layoff.....	423	100.0	49.0	25.4	25.6	16.9	8.7
Other job losers.....	690	100.0	33.8	33.9	32.2	20.0	12.3
Job leavers.....	331	100.0	48.0	29.1	23.0	12.4	10.6
Reentrants.....	824	100.0	57.4	27.6	15.0	9.5	5.4
New entrants.....	144	100.0	57.9	22.1	20.0	6.9	13.1
Both sexes, 16 to 19 years.....	1,585	100.0	59.1	24.2	16.8	10.3	6.4
Job losers.....	362	100.0	48.4	29.2	22.4	15.3	7.1
On layoff.....	120	100.0	63.4	20.4	16.2	12.5	3.8
Other job losers.....	242	100.0	41.0	33.5	25.5	16.7	8.7
Job leavers.....	144	100.0	60.7	25.0	14.3	13.2	1.1
Reentrants.....	480	100.0	65.0	20.7	14.3	7.8	6.5
New entrants.....	599	100.0	60.4	23.7	15.9	8.7	7.3

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

Sex, age, and race	May 1980								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	7,318	5,675	29.0	6.4	72.4	29.5	15.3	6.1	1.59
16 to 19 years	1,585	1,444	21.7	4.4	76.5	24.1	15.0	4.7	1.46
20 to 24 years	1,814	1,431	33.8	7.0	75.1	31.7	14.6	5.0	1.67
25 to 34 years	1,896	1,373	33.0	7.4	67.8	34.5	16.3	6.6	1.66
35 to 44 years	911	658	30.9	7.1	71.6	27.7	16.4	6.2	1.60
45 to 54 years	627	430	26.5	8.1	67.9	29.8	13.3	11.2	1.57
55 to 64 years	392	277	25.3	5.8	72.6	26.7	14.1	9.7	1.54
65 years and over	93	61	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Males, 16 years and over	4,151	3,026	30.8	6.8	72.8	28.1	18.3	7.2	1.64
16 to 19 years	829	743	20.6	4.8	77.9	23.0	19.0	4.2	1.50
20 to 24 years	1,057	789	37.5	6.6	75.2	31.4	17.4	4.9	1.73
25 to 34 years	1,117	741	35.6	7.7	68.6	34.7	20.2	8.0	1.75
35 to 44 years	500	331	35.0	8.5	72.8	22.1	19.9	10.3	1.69
45 to 54 years	344	213	27.7	9.4	67.1	24.4	11.7	16.9	1.57
55 to 64 years	245	167	22.8	7.8	67.1	24.0	16.2	12.0	1.50
65 years and over	59	42	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	3,168	2,649	27.0	6.0	72.0	31.2	11.8	4.7	1.53
16 to 19 years	756	702	22.8	3.8	74.8	25.4	10.8	5.3	1.43
20 to 24 years	757	643	29.1	7.6	74.8	31.7	11.0	5.0	1.59
25 to 34 years	779	631	30.0	7.0	67.2	34.4	11.9	4.9	1.55
35 to 44 years	411	327	26.9	5.8	70.3	33.3	12.8	2.1	1.51
45 to 54 years	283	217	25.3	6.9	68.2	35.0	14.7	6.0	1.56
55 to 64 years	148	110	29.1	2.7	80.0	30.9	10.9	6.4	1.60
65 years and over	35	19	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over	5,719	4,342	27.9	6.2	72.8	31.8	15.5	5.6	1.60
Males	3,331	2,377	30.1	6.6	73.3	30.0	18.4	7.0	1.65
Females	2,388	1,965	25.3	5.6	72.1	33.9	12.0	4.0	1.53
Black and other, 16 years and over	1,600	1,333	32.5	7.2	71.3	22.2	14.6	7.5	1.55
Males	820	649	33.3	7.4	71.0	21.0	18.2	8.2	1.59
Females	780	684	31.7	7.0	71.8	23.4	11.4	6.9	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 the jobsearch methods used, sex, and reason for unemployment

Sex and reason	May 1980								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	7,318	5,675	29.0	6.4	72.4	29.5	15.3	6.1	1.59
Job losers	3,824	2,287	36.8	5.9	71.8	30.5	16.0	7.5	1.69
Job leavers	826	834	29.5	11.6	72.2	33.6	17.3	3.0	1.67
Reentrants	1,844	1,745	22.9	5.9	72.1	29.5	13.8	6.0	1.50
New entrants	823	809	19.5	3.7	75.3	22.5	14.2	5.3	1.41
Males, 16 years and over	4,151	3,026	30.8	6.8	72.8	28.1	18.3	7.2	1.64
Job losers	2,596	1,522	35.7	5.3	72.3	29.4	17.0	9.1	1.69
Job leavers	429	433	31.6	14.1	70.7	34.2	22.6	2.8	1.76
Reentrants	770	723	25.7	6.9	73.4	25.6	18.3	6.8	1.57
New entrants	355	349	18.9	3.7	76.2	19.8	18.6	5.2	1.42
Females, 16 years and over	3,168	2,649	27.0	6.0	72.0	31.2	11.8	4.7	1.53
Job losers	1,228	764	39.1	6.9	70.7	32.9	14.3	4.1	1.68
Job leavers	397	402	27.4	9.0	73.9	32.8	11.2	3.2	1.57
Reentrants	1,074	1,023	20.8	5.0	71.2	32.3	10.7	5.6	1.45
New entrants	469	460	20.0	3.7	74.6	24.8	10.9	5.2	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	
	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980
Total, 16 years and over	5,253	7,318	100.0	100.0	4,156	6,203	100.0	100.0
Less than 5 weeks	2,494	3,427	47.5	46.8	1,870	2,730	45.0	44.0
5 to 14 weeks	1,455	2,044	27.7	27.9	1,147	1,788	27.6	28.8
5 to 10 weeks	1,059	1,480	20.2	20.2	825	1,280	19.9	20.6
11 to 14 weeks	396	563	7.5	7.7	322	508	7.7	8.2
15 weeks and over	1,304	1,848	24.8	25.3	1,140	1,684	27.4	27.1
15 to 26 weeks	768	1,100	14.6	15.0	663	1,006	16.0	16.2
27 weeks and over	536	749	10.2	10.2	477	678	11.5	10.9
27 to 51 weeks	281	434	5.3	5.9	257	388	6.2	6.3
52 weeks and over	255	315	4.9	4.3	219	290	5.3	4.7
Average (mean) duration, in weeks	12.1	11.7	--	--	13.0	12.3	--	--
Median duration, in weeks	5.7	5.8	--	--	6.4	6.5	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			May 1979	May 1980	May 1979	May 1980
	May 1980							May 1979	May 1980	May 1979	May 1980
Total, 16 years and over	7,318	3,427	2,044	1,100	749	11.7	5.8	47.5	46.8	24.8	25.3
16 to 21 years	2,460	1,371	620	273	196	9.9	4.5	57.9	55.7	15.8	19.1
16 to 19 years	1,585	937	383	164	102	9.0	4.2	59.1	59.1	14.3	16.8
20 to 24 years	1,814	877	530	248	159	10.8	5.3	51.0	48.4	21.5	22.4
25 to 34 years	1,896	785	558	345	208	12.6	7.2	41.5	41.4	27.2	29.2
35 to 44 years	911	365	277	159	110	13.7	7.8	41.9	40.1	31.7	29.5
45 to 54 years	627	254	169	103	100	14.3	7.6	38.8	40.5	38.3	32.5
55 to 64 years	392	165	96	74	57	14.7	6.9	35.4	42.0	35.8	33.5
65 years and over	93	44	30	7	11	11.0	5.8	33.3	47.7	37.5	19.7
Males, 16 years and over	4,151	1,769	1,184	706	491	13.1	6.9	43.2	42.6	28.9	28.8
16 to 21 years	1,318	639	370	177	133	11.6	5.4	55.5	48.4	18.3	23.5
16 to 19 years	829	435	220	109	64	10.2	4.8	57.2	52.5	16.6	20.9
20 to 24 years	1,057	459	322	157	118	12.4	6.3	46.5	43.4	24.1	26.1
25 to 34 years	1,117	405	350	224	138	13.7	8.7	36.1	36.2	30.0	32.4
35 to 44 years	500	195	134	103	68	15.2	8.9	34.9	39.0	38.7	34.3
45 to 54 years	344	148	85	56	56	15.4	7.1	32.4	42.8	45.0	32.5
55 to 64 years	245	96	58	52	39	16.2	7.8	32.2	39.1	42.7	37.2
65 years and over	59	33	15	5	7	9.7	4.5	(1)	(1)	(1)	(1)
Females, 16 years and over	3,168	1,657	859	393	258	10.0	4.8	51.7	52.3	20.9	20.6
16 to 21 years	1,142	733	250	95	63	7.8	3.9	60.1	64.2	13.4	13.9
16 to 19 years	756	502	162	54	38	7.6	3.8	60.9	66.3	12.0	12.2
20 to 24 years	757	418	207	90	41	8.5	4.5	55.5	55.3	18.9	17.3
25 to 34 years	779	380	208	121	70	11.1	5.3	46.5	48.8	24.6	24.5
35 to 44 years	411	170	144	55	42	11.9	6.9	47.8	41.4	25.8	23.7
45 to 54 years	283	107	84	47	44	13.0	8.1	45.1	37.7	31.8	32.5
55 to 64 years	148	69	38	22	18	12.1	5.9	39.2	46.8	27.4	27.3
65 years and over	35	12	16	2	5	13.3	9.4	(1)	(1)	(1)	(1)
Whites, 16 years and over	5,719	2,712	1,558	907	541	11.4	5.7	48.5	47.4	24.2	25.3
Males	3,331	1,453	921	601	356	12.6	6.7	44.7	43.6	28.4	28.7
Females	2,388	1,260	637	306	185	9.7	4.7	52.3	52.7	20.0	20.6
Black and other, 16 years and over	1,600	714	485	193	207	13.1	6.3	44.4	44.7	26.8	25.0
Males	820	317	263	106	135	15.1	7.7	38.1	38.6	30.4	29.3
Females	780	398	222	87	73	10.9	4.9	50.0	51.0	23.6	20.5
Males, 16 years and over:											
Married, spouse present	1,745	735	468	339	202	13.3	7.3	37.0	42.1	34.3	31.0
Widowed, divorced, or separated	433	163	123	81	66	14.8	9.1	33.0	37.6	39.1	34.0
Single (never married)	1,973	871	594	286	222	12.5	6.3	48.9	44.2	23.6	25.8
Females, 16 years and over:											
Married, spouse present	1,316	656	372	172	115	10.1	5.0	48.5	49.9	22.9	21.9
Widowed, divorced, or separated	578	236	196	90	57	11.9	7.4	48.1	40.8	25.4	25.4
Single (never married)	1,274	765	292	131	86	8.9	4.2	56.4	60.1	17.0	17.0

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

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			May 1979	May 1980	May 1979	May 1980
	May 1980										
OCCUPATION											
White-collar workers	1,854	892	526	255	181	11.0	5.5	45.3	48.1	28.1	23.5
Professional and managerial	642	276	192	91	82	12.8	6.4	37.5	43.0	37.3	27.1
Sales workers	269	139	56	44	30	11.7	4.8	47.0	51.8	21.2	27.5
Clerical workers	943	477	278	120	69	9.7	4.9	49.9	50.6	24.2	20.0
Blue-collar workers	3,510	1,466	1,017	646	381	12.5	7.0	44.2	41.8	26.9	29.3
Craft and kindred workers	933	389	271	182	92	12.4	7.2	40.5	41.6	30.7	29.4
Operatives, except transport	1,553	673	430	291	158	12.0	6.7	46.9	43.4	25.3	28.9
Transport equipment operatives	305	136	86	67	16	10.8	6.9	39.4	44.6	28.7	27.0
Nonfarm laborers	719	268	230	106	115	14.5	7.4	44.9	37.3	25.4	30.8
Service workers	1,035	538	275	119	103	11.2	4.8	51.7	51.9	22.4	21.5
INDUSTRY¹											
Agriculture	128	65	45	8	10	9.1	4.9	59.8	50.8	15.9	14.5
Construction	781	288	228	175	91	13.9	8.5	38.4	36.9	31.8	34.0
Manufacturing	2,115	892	585	394	244	12.6	6.9	47.3	42.2	26.3	30.2
Durable goods	1,363	587	371	243	162	12.6	6.6	40.8	43.1	29.8	29.7
Non-durable goods	752	305	213	151	82	12.5	7.8	53.8	40.6	22.8	31.0
Transportation and public utilities	289	131	75	52	31	12.5	6.7	49.5	45.3	27.3	28.6
Wholesale and retail trade	1,288	625	369	185	110	10.4	5.4	45.5	48.5	23.8	22.9
Finance and service industries	1,503	751	436	164	151	11.0	5.1	48.8	50.0	25.4	21.0
Public administration	217	105	61	28	22	11.4	5.5	35.4	48.5	40.1	23.2
No previous work experience	825	483	191	75	75	11.2	4.3	55.0	58.6	15.9	18.2

¹ Includes wage and salary workers only.

A-20. Employed persons by sex and age

(In thousands)

Age and type of industry	Total		Males		Females	
	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980
	All Industries	96,220	96,709	56,280	55,750	39,941	40,959
16 to 19 years	7,632	7,317	4,104	3,916	3,526	3,400
16 to 17 years	3,055	2,875	1,706	1,596	1,350	1,279
18 to 19 years	4,577	4,442	2,399	2,320	2,176	2,121
20 to 24 years	13,708	13,416	7,448	7,238	6,260	6,178
25 to 54 years	60,554	61,637	35,933	35,821	24,621	25,817
25 to 34 years	25,566	26,101	15,165	15,132	10,400	10,969
35 to 44 years	18,727	19,290	10,970	11,065	7,757	8,225
45 to 54 years	16,262	16,246	9,799	9,624	6,464	6,222
55 to 64 years	11,336	11,382	6,933	6,946	4,403	4,436
65 to 69 years	7,007	7,031	4,254	4,264	2,753	2,766
80 to 84 years	4,329	4,352	2,679	2,682	1,650	1,669
85 years and over	2,989	2,957	1,860	1,829	1,128	1,128
Nonagricultural industries	92,911	93,273	53,620	53,030	39,291	40,243
16 to 19 years	7,262	6,939	3,787	3,618	3,475	3,320
16 to 17 years	2,848	2,663	1,525	1,431	1,323	1,232
18 to 19 years	4,414	4,276	2,261	2,187	2,152	2,089
20 to 24 years	13,280	12,986	7,103	6,892	6,177	6,094
25 to 54 years	58,844	59,843	34,645	34,464	24,200	25,378
25 to 34 years	24,921	25,431	14,664	14,606	10,257	10,824
35 to 44 years	18,223	18,695	10,597	10,632	7,626	8,063
45 to 54 years	15,700	15,717	9,384	9,226	6,316	6,491
55 to 64 years	10,840	10,851	6,505	6,503	4,335	4,348
65 to 69 years	6,753	6,749	4,040	4,040	2,712	2,710
80 to 84 years	4,087	4,101	2,464	2,463	1,623	1,638
85 years and over	2,685	2,655	1,581	1,553	1,104	1,102
Agriculture	3,309	3,436	2,660	2,720	650	715
16 to 19 years	370	378	318	298	53	80
16 to 17 years	207	212	180	165	27	47
18 to 19 years	163	166	137	133	26	33
20 to 24 years	428	430	345	347	83	84
25 to 54 years	1,711	1,795	1,289	1,357	421	438
25 to 34 years	644	670	501	525	143	145
35 to 44 years	504	595	373	433	131	162
45 to 54 years	562	530	415	398	148	131
55 to 64 years	496	531	429	444	68	88
65 to 69 years	254	281	213	224	41	57
80 to 84 years	242	250	215	219	27	31
85 years and over	304	301	280	276	24	26

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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	
	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980
	TOTAL	96,220	96,709	52,175	51,834	36,413	37,558	4,104	3,916	3,528	3,400
White-collar workers	48,935	50,386	22,632	22,904	23,885	25,117	609	642	1,809	1,722
Professional and technical	15,220	15,691	8,558	8,642	6,512	6,892	72	75	78	82
Health workers	2,736	2,900	930	929	1,786	1,955	8	3	13	13
Teachers, except college	3,397	3,366	1,025	950	2,354	2,388	2	13	16	15
Other professional and technical	9,087	9,425	6,603	6,763	2,372	2,549	62	59	49	54
Managers and administrators, except farm	10,312	10,751	7,761	7,888	2,468	2,774	48	50	35	39
Salaried workers	8,594	8,803	6,433	6,419	2,082	2,297	43	48	35	39
Self-employed workers in retail trade	813	886	554	588	255	295	4	2	--	--
Self-employed workers, except retail trade	905	1,062	773	880	132	183	2	--	--	--
Sales workers	6,073	5,992	3,206	3,089	2,227	2,245	219	248	420	410
Retail trade	3,151	3,085	1,050	992	1,515	1,538	177	176	408	379
Other industries	2,922	2,907	2,156	2,097	712	707	42	72	12	31
Clerical workers	17,331	17,952	3,108	3,285	12,677	13,206	270	269	1,275	1,191
Stenographers, typists, and secretaries	4,857	4,908	65	69	4,475	4,529	8	9	308	300
Other clerical workers	12,474	13,044	3,043	3,216	8,202	8,677	262	260	967	891
Blue-collar workers	31,859	30,623	23,755	23,001	5,402	5,207	2,283	2,067	415	348
Craft and kindred workers	12,764	12,460	11,558	11,391	684	645	480	393	42	30
Carpenters	1,235	1,147	1,159	1,085	10	15	63	45	2	2
Construction craft, except carpenters	2,599	2,653	2,454	2,510	40	39	160	101	5	3
Mechanics and repairers	3,556	3,230	3,315	3,045	54	56	184	128	3	2
Metal craft	1,272	1,359	1,187	1,279	31	51	52	27	2	2
Blue-collar worker supervisors, not elsewhere classified	1,638	1,727	1,480	1,558	141	154	15	12	2	3
All other	2,464	2,346	1,962	1,915	408	331	67	81	27	19
Operatives, except transport	10,643	10,222	5,789	5,569	3,996	3,891	617	542	242	220
Durable goods manufacturing	4,972	4,537	3,047	2,799	1,630	1,519	205	154	90	66
Nondurable goods manufacturing	3,223	3,252	1,294	1,240	1,739	1,799	91	105	98	107
Other industries	2,449	2,433	1,447	1,530	627	574	319	283	54	47
Transport equipment operatives	3,689	3,465	3,218	2,996	283	284	167	180	22	5
Drivers, motor vehicles	3,123	2,975	2,712	2,546	257	265	136	160	18	3
All other	566	489	505	450	26	19	31	20	4	2
Nonfarm laborers	4,762	4,477	3,195	3,046	439	387	1,020	952	109	92
Construction	860	801	673	643	22	17	161	138	4	3
Manufacturing	1,077	876	791	674	166	122	98	66	21	14
Other industries	2,825	2,799	1,730	1,728	251	246	760	747	84	76
Service workers	12,728	12,890	3,828	3,891	6,679	6,748	955	981	1,266	1,271
Private household workers	993	1,027	16	24	815	828	11	6	151	168
Service workers, except private household	11,735	11,863	3,812	3,867	5,864	5,919	944	975	1,115	1,102
Food service workers	4,359	4,527	766	880	2,206	2,255	616	613	771	779
Protective service workers	1,383	1,392	1,242	1,235	110	125	24	18	8	15
All other	5,993	5,944	1,804	1,752	3,548	3,539	304	344	336	308
Farm workers	2,698	2,810	1,957	2,038	447	487	257	226	39	60
Farmers and farm managers	1,376	1,486	1,256	1,315	99	158	22	12	--	--
Farm laborers and supervisors	1,322	1,324	701	722	348	328	235	214	39	60
Paid workers	996	993	648	676	141	145	177	142	29	31
Unpaid family workers	327	331	52	47	206	184	58	72	10	29

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980
TOTAL						
Total, 16 years and over (thousands)	96,220	96,709	56,280	55,750	39,941	40,959
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	50.9	52.1	41.3	42.2	64.3	65.5
Professional and technical	15.8	16.2	15.3	15.6	16.5	17.0
Managers and administrators, except farm	10.7	11.1	13.9	14.2	6.3	6.9
Sales workers	6.3	6.2	6.1	6.0	6.6	6.5
Clerical workers	18.0	18.6	6.0	6.4	34.9	35.1
Blue-collar workers	33.1	31.7	46.3	45.0	14.6	13.6
Craft and kindred workers	13.3	12.9	21.4	21.1	1.8	1.7
Operatives, except transport	11.1	10.6	11.4	11.0	10.6	10.0
Transport equipment operatives	3.8	3.6	6.0	5.7	.8	.7
Nonfarm laborers	4.9	4.6	7.5	7.2	1.4	1.2
Service workers	13.2	13.3	8.5	8.7	19.9	19.6
Private household workers	1.0	1.1	(1)	.1	2.4	2.4
Other service workers	12.2	12.3	8.5	8.7	17.5	17.1
Farm workers	2.8	2.9	3.9	4.1	1.2	1.3
Farmers and farm managers	1.4	1.5	2.3	2.4	.2	.4
Farm laborers and supervisors	1.4	1.4	1.7	1.7	1.0	.9
White						
Total, 16 years and over (thousands)	85,482	85,980	50,544	50,174	34,939	35,806
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	52.5	53.7	42.8	43.7	66.5	67.6
Professional and technical	16.3	16.6	15.9	16.1	16.8	17.3
Managers and administrators, except farm	11.4	11.9	14.6	15.2	6.7	7.3
Sales workers	6.8	6.6	6.5	6.3	7.1	7.0
Clerical workers	18.1	18.6	5.8	6.1	35.9	36.1
Blue-collar workers	32.7	31.2	45.5	44.1	14.1	13.1
Craft and kindred workers	13.8	13.3	22.0	21.6	1.9	1.7
Operatives, except transport	10.6	10.0	10.9	10.4	10.0	9.5
Transport equipment operatives	3.7	3.4	5.7	5.3	.8	.7
Nonfarm laborers	4.7	4.4	6.9	6.7	1.4	1.2
Service workers	11.9	12.1	7.6	8.0	18.2	17.9
Private household workers .....	.8	.8	(1)	(1)	1.8	1.9
Other service workers	11.1	11.3	7.6	8.0	16.3	16.0
Farm workers	2.9	3.0	4.1	4.2	1.3	1.4
Farmers and farm managers	1.6	1.7	2.5	2.6	.3	.4
Farm laborers and supervisors	1.3	1.3	1.6	1.6	1.0	1.0
Black and other						
Total, 16 years and over (thousands)	10,738	10,729	5,736	5,576	5,002	5,153
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	37.8	39.3	27.9	28.7	49.2	50.8
Professional and technical	12.3	13.0	10.7	11.1	14.2	15.1
Managers and administrators, except farm	5.4	4.8	7.2	5.8	3.5	3.8
Sales workers	2.8	2.9	2.6	2.8	3.0	3.1
Clerical workers	17.3	18.5	7.4	9.0	28.5	28.9
Blue-collar workers	36.6	35.6	52.7	52.9	18.0	16.9
Craft and kindred workers	9.2	9.4	16.2	16.9	1.2	1.4
Operatives, except transport	15.1	14.8	15.3	15.6	14.9	14.0
Transport equipment operatives	5.1	4.9	9.0	8.9	.6	.6
Nonfarm laborers	7.2	6.4	12.2	11.5	1.3	1.0
Service workers	23.7	23.1	16.5	15.3	31.9	31.5
Private household workers	3.1	3.2	.2	.3	6.5	6.4
Other service workers	20.5	19.8	16.3	15.1	25.4	25.0
Farm workers	2.0	2.0	2.9	3.2	1.0	.8
Farmers and farm managers3	.3	.4	.5	.1	(1)
Farm laborers and supervisors	1.7	1.8	2.4	2.7	.9	.8

1 Less than 0.05 percent.

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

[In thousands]

Age and sex	May 1980								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	85,891	1,169	15,910	68,812	6,907	476	1,430	1,664	342
16 to 19 years	6,814	233	495	6,086	92	33	238	39	101
16 to 17 years	2,605	167	163	2,274	46	13	126	26	61
18 to 19 years	4,209	65	332	3,812	46	20	112	14	40
20 to 24 years	12,623	103	1,448	11,073	339	24	292	107	31
25 to 34 years	23,809	151	4,675	18,983	1,532	89	335	294	41
35 to 44 years	16,830	130	3,615	13,085	1,743	122	216	311	68
45 to 54 years	14,025	211	3,243	10,575	1,556	132	163	318	49
55 to 64 years	9,675	191	2,048	7,435	1,119	56	119	378	35
55 to 59 years	6,032	106	1,330	4,596	680	38	77	180	25
60 to 64 years	3,643	86	719	2,839	440	18	42	198	10
65 years and over	2,111	149	385	1,576	525	20	68	217	17
Males, 16 years and over	48,130	174	7,759	40,197	4,842	57	1,125	1,477	119
16 to 19 years	3,537	76	236	3,224	56	26	187	39	72
16 to 17 years	1,396	51	89	1,257	27	8	98	26	41
18 to 19 years	2,140	26	147	1,967	29	18	89	14	31
20 to 24 years	6,656	23	587	6,046	221	14	223	100	24
25 to 34 years	13,542	19	2,291	11,232	1,057	7	263	259	3
35 to 44 years	9,410	7	1,715	7,688	1,220	2	164	263	5
45 to 54 years	8,091	15	1,659	6,417	1,134	--	121	276	1
55 to 64 years	5,708	13	1,061	4,634	791	3	102	339	2
55 to 59 years	3,570	11	685	2,874	467	2	66	158	--
60 to 64 years	2,138	2	376	1,760	324	1	35	181	2
65 years and over	1,186	19	210	956	363	4	64	200	11
Females, 16 years and over	37,760	995	8,150	28,615	2,064	419	306	187	223
16 to 19 years	3,277	157	259	2,862	36	7	51	--	29
16 to 17 years	1,208	117	74	1,018	19	5	28	--	19
18 to 19 years	2,069	40	185	1,844	17	2	23	--	10
20 to 24 years	5,967	79	861	5,027	117	10	69	7	7
25 to 34 years	10,267	132	2,384	7,751	475	82	72	35	38
35 to 44 years	7,420	123	1,900	5,397	523	120	51	48	63
45 to 54 years	5,938	196	1,584	4,157	422	131	42	41	48
55 to 64 years	3,967	179	987	2,801	329	53	17	39	32
55 to 59 years	2,462	95	644	1,722	213	35	10	22	25
60 to 64 years	1,505	84	343	1,079	116	17	7	17	7
65 years and over	925	130	175	620	162	16	3	17	6

A-24. Employed persons by industry and occupation

[In thousands]

Industry	May 1980											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Profes- sional and technical workers	Managers and adminis- trators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Total, 16 years and over:	3,436	82	30	12	83	58	8	30	315	--	7	2,810
Agriculture	905	111	69	8	116	254	271	47	18	--	11	--
Mining	6,096	205	815	28	452	3,279	297	197	801	--	23	--
Manufacturing	21,375	2,427	1,698	522	2,693	4,216	7,789	748	876	--	406	--
Durable goods	12,776	1,610	926	195	1,550	2,850	4,537	355	542	--	212	--
Nondurable goods	8,600	817	772	326	1,143	1,368	3,252	393	335	--	194	--
Transportation and public utilities	6,299	631	618	71	1,456	1,361	153	1,434	423	--	152	--
Wholesale and retail trade	19,485	376	3,796	3,980	3,387	1,441	881	699	1,224	--	3,700	--
Wholesale trade	3,711	140	784	896	740	310	156	366	285	--	34	--
Retail trade	15,773	236	3,012	3,085	2,647	1,132	725	333	938	--	3,666	--
Finance, insurance, and real estate	5,697	321	1,088	1,158	2,690	98	7	14	71	--	249	--
Services	28,083	10,476	1,982	198	5,081	1,451	768	241	586	1,027	6,273	--
Private households	1,235	5	--	--	9	10	2	5	136	1,027	41	--
Other service industries	26,848	10,471	1,982	198	5,072	1,441	766	236	450	--	6,232	--
Public administration	5,332	1,063	655	17	1,995	299	47	55	162	--	1,042	--

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

(In thousands)

Reason not working	All Industries		Nonagricultural industries					
			Total		Wage and salary workers ¹			
	May 1979				May 1980		Paid absences ²		Unpaid absences^{2}
			May 1979	May 1980			May 1979	May 1980	May 1979	May 1980
Total, 16 years and over	3,751	4,260	3,665	4,170	1,781	2,067	1,495	1,648
Vacation	1,386	1,882	1,377	1,861	1,074	1,348	222	351
Illness	1,371	1,343	1,339	1,315	530	526	703	698
Bad weather	77	102	56	78	--	--	--	--
Industrial dispute	105	84	104	84	--	--	--	--
All other reasons	812	849	789	833	177	193	570	599
Males, 16 years and over	2,113	2,428	2,039	2,348	1,123	1,260	692	808
Vacation	860	1,132	853	1,112	713	865	91	145
Illness	751	725	722	700	305	305	351	350
All other reasons ³	501	571	463	535	105	91	250	313
Females, 16 years and over	1,638	1,832	1,626	1,822	659	807	803	839
Vacation	526	750	523	749	361	483	131	205
Illness	620	618	617	615	226	221	352	348
All other reasons ³	491	465	485	459	73	102	321	286

¹ Excludes private household.

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

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

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 type of industry and hours of work

Hours of work	May 1980					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total, 16 years and over	92,449	89,103	3,346	100.0	100.0	100.0
1-34 hours	22,882	21,882	1,000	24.8	24.6	29.9
1-4 hours	766	727	39	.8	.8	1.2
5-14 hours	4,260	4,001	259	4.6	4.5	7.7
15-29 hours	11,423	10,966	457	12.4	12.3	13.7
30-34 hours	6,433	6,188	245	7.0	6.9	7.3
35 hours and over	69,567	67,221	2,347	75.2	75.4	70.1
35-39 hours	6,701	6,568	134	7.2	7.4	4.0
40 hours	39,714	39,233	481	43.0	44.0	14.4
41 hours and over	23,152	21,420	1,732	25.0	24.0	51.7
41 to 48 hours	9,064	8,852	212	9.8	9.9	6.3
49 to 59 hours	7,697	7,312	385	8.3	8.2	11.5
60 hours and over	6,391	5,256	1,135	6.9	5.9	33.9
Average hours, total at work	38.6	38.2	46.7	--	--	--
Average hours, workers on full-time schedules	43.1	42.7	55.3	--	--	--

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

[Numbers in thousands]

Reason for working less than 35 hours	May 1980					
	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	22,882	6,867	16,015	21,882	6,536	15,346
Economic reasons	4,318	2,070	2,248	4,113	1,963	2,150
Slack work	2,476	1,661	815	2,340	1,573	767
Material shortages or repairs to plant and equipment	50	50	--	50	50	--
New job started during week	253	253	--	240	240	--
Job terminated during week	106	106	--	100	100	--
Could find only part-time work	1,433	--	1,433	1,383	--	1,383
Other reasons	18,563	4,796	13,767	17,769	4,573	13,196
Does not want, or unavailable for, full-time work	11,596	--	11,596	11,127	--	11,127
Vacation	1,009	1,009	--	999	999	--
Illness	1,702	1,533	169	1,658	1,514	144
Bad weather	605	605	--	453	453	--
Industrial dispute	20	20	--	20	20	--
Legal or religious holiday	59	59	--	58	58	--
Full time for this job	1,498	--	1,498	1,462	--	1,462
All other reasons	2,076	1,571	505	1,991	1,528	463
Average hours:						
Economic reasons	22.5	24.5	20.7	22.7	24.7	20.9
Other reasons	20.7	26.3	18.8	20.8	26.4	18.9
Worked 30 to 34 hours:						
Economic reasons	1,478	944	534	1,421	908	513
Other reasons	4,955	2,571	2,384	4,767	2,488	2,279

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

[Numbers in thousands]

Industry	May 1980								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 over¹	89,103	4,113	13,196	71,794	50,374	8,852	12,568	38.2	42.7	
Wage and salary workers	82,128	3,627	11,853	66,648	48,080	8,271	10,297	38.0	42.2	
Construction	4,715	339	248	4,128	3,055	453	620	39.0	41.5	
Manufacturing	19,998	922	710	18,366	13,497	2,468	2,401	40.5	42.0	
Durable goods	11,963	430	306	11,227	8,265	1,563	1,399	40.8	41.9	
Nondurable goods	8,034	491	404	7,139	5,231	905	1,003	39.9	42.1	
Transportation and public utilities	5,665	195	340	5,130	3,638	620	872	40.9	43.0	
Wholesale and retail trade	16,698	968	4,522	11,208	7,093	1,795	2,320	35.6	43.3	
Finance, insurance, and real estate	5,000	109	547	4,344	3,395	431	518	38.3	41.0	
Service industries	24,130	568	5,172	17,990	13,313	1,891	2,786	36.1	42.0	
Private households	1,121	152	610	359	247	46	66	22.8	42.2	
All other industries	23,009	816	4,562	17,631	13,066	1,845	2,720	36.7	42.0	
Public administration	5,092	103	297	4,692	3,666	488	538	39.6	41.4	
Self-employed workers	6,500	466	1,149	4,885	2,141	555	2,189	40.9	48.5	
Unpaid family workers	476	20	193	263	155	26	82	35.7	46.2	

¹ Includes mining, not shown separately.

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

(Numbers in thousands)

Sex, age, race, and marital status	May 1980							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	89,103	4,113	13,196	71,794	50,374	21,420	38.2	42.7
16 to 21 years	11,470	883	4,603	5,984	4,673	1,311	29.8	40.9
16 to 19 years	6,730	456	3,738	2,536	2,021	515	25.9	40.5
16 to 17 years	2,591	114	2,186	291	238	53	18.2	38.3
18 to 19 years	4,139	342	1,551	2,246	1,785	461	30.7	40.8
20 years and over	82,373	3,657	9,458	69,258	48,353	20,905	39.2	42.7
20 to 24 years	12,535	889	1,631	10,015	7,554	2,461	37.4	41.5
25 years and over	69,839	2,768	7,827	59,244	40,801	18,443	39.5	43.0
25 to 44 years	42,347	1,712	4,033	36,602	24,865	11,737	40.1	43.0
45 to 64 years	25,034	954	2,561	21,519	15,164	6,355	39.8	42.8
65 years and over	2,459	101	1,233	1,125	775	350	29.1	43.0
Males, 16 years and over	50,682	1,947	4,123	44,612	28,189	16,423	41.1	44.0
16 to 21 years	5,994	454	2,257	3,283	2,343	940	31.2	42.0
16 to 19 years	3,522	212	1,879	1,431	1,051	380	27.2	41.5
16 to 17 years	1,395	61	1,163	171	136	35	19.3	39.1
18 to 19 years	2,126	151	715	1,260	914	346	32.5	41.8
20 years and over	47,161	1,735	2,245	43,181	27,139	16,042	42.2	44.1
20 to 24 years	6,657	489	661	5,507	3,795	1,712	38.8	42.6
25 years and over	40,504	1,247	1,584	37,673	23,342	14,331	42.7	44.3
25 to 44 years	24,264	767	477	23,020	13,908	9,112	43.4	44.5
45 to 64 years	14,804	430	465	13,909	8,938	4,971	42.8	44.1
65 years and over	1,436	50	643	743	496	247	30.8	43.3
Females, 16 years and over	38,421	2,167	9,072	27,182	22,184	4,998	34.4	40.4
16 to 21 years	5,476	429	2,346	2,701	2,330	371	28.4	39.6
16 to 19 years	3,208	245	1,859	1,104	969	135	24.4	39.3
16 to 17 years	1,195	53	1,023	119	99	20	16.9	37.1
18 to 19 years	2,013	192	836	985	869	116	28.8	39.6
20 years and over	35,212	1,922	7,213	26,077	21,214	4,863	35.3	40.5
20 to 24 years	5,877	401	970	4,506	3,756	750	35.7	40.3
25 years and over	29,335	1,521	6,243	21,571	17,458	4,113	35.2	40.5
25 to 44 years	18,082	946	3,556	13,580	10,956	2,624	35.5	40.5
45 to 64 years	10,230	525	2,097	7,608	6,223	1,385	35.5	40.5
65 years and over	1,023	51	591	381	278	103	26.7	42.3
RACE								
White	79,159	3,487	12,005	63,667	43,638	20,029	38.4	42.9
Males	45,602	1,690	3,674	40,238	24,735	15,499	41.4	44.3
Females	33,557	1,796	8,331	23,430	18,901	4,529	34.2	40.5
Black and other	9,944	626	1,190	8,128	6,737	1,391	37.1	40.9
Males	5,081	256	449	4,376	3,452	924	38.6	41.6
Females	4,864	371	741	3,752	3,283	469	35.5	40.0
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	34,727	955	1,199	32,573	19,933	12,640	43.0	44.4
Widowed, divorced, or separated	4,162	196	205	3,761	2,394	1,367	42.1	44.4
Single (never married)	11,794	795	2,720	8,279	5,861	2,418	35.4	42.4
Females, 16 years and over:								
Married, spouse present	21,477	1,164	5,302	15,011	12,415	2,596	34.3	40.2
Widowed, divorced, or separated	7,384	440	1,110	5,834	4,535	1,295	36.8	41.0
Single (never married)	9,560	562	2,661	6,337	5,236	1,107	32.8	40.3

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

[Numbers in thousands]

Occupational group and sex	May 1980								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over	89,705	4,161	13,324	72,220	50,584	8,900	12,736	38.2	42.7
White-collar workers	48,331	1,317	6,914	40,100	27,298	4,741	8,061	39.0	43.1
Professional and technical	15,119	312	1,721	13,086	8,842	1,590	2,654	39.9	43.1
Managers and administrators, except farm	10,308	152	515	9,641	4,687	1,438	3,516	45.2	46.9
Sales workers	5,722	261	1,468	3,993	2,417	524	1,052	36.2	43.9
Clerical workers	17,181	591	3,210	13,380	11,353	1,189	838	35.5	40.0
Blue-collar workers	29,038	1,962	2,190	24,886	17,789	5,389	3,708	39.3	42.4
Craft and kindred workers	11,819	567	454	10,798	7,330	1,637	1,831	41.0	42.9
Operatives, except transport	9,705	821	578	8,306	6,463	1,027	796	38.8	41.3
Transport equipment operatives	3,274	204	301	2,769	1,631	380	758	41.3	45.1
Nonfarm laborers	4,240	370	857	3,013	2,346	345	322	34.4	41.0
Service workers	12,336	882	4,220	7,234	5,497	770	967	32.3	41.8
Private household	965	113	521	351	245	43	63	24.4	42.6
Other service workers	11,351	770	3,700	6,881	5,251	727	903	33.0	41.8
Males, 16 years and over	51,120	1,983	4,196	44,941	28,340	6,293	10,308	41.1	44.1
White-collar workers	22,657	366	1,455	20,836	11,686	2,893	6,257	43.2	45.4
Professional and technical	8,429	124	507	7,798	4,770	983	2,045	42.6	44.5
Managers and administrators, except farm	7,622	93	191	7,338	3,256	1,108	2,974	46.7	47.7
Sales workers	3,232	58	372	2,802	1,491	419	892	41.7	45.3
Clerical workers	3,374	92	385	2,897	2,167	384	346	38.5	41.7
Blue-collar workers	23,786	1,386	1,595	20,805	14,362	2,978	3,465	40.1	42.8
Craft and kindred workers	11,184	533	361	10,290	6,943	1,573	1,774	41.2	42.9
Operatives, except transport	5,807	336	291	5,180	3,793	730	657	40.4	42.4
Transport equipment operatives	3,009	190	184	2,635	1,545	361	729	42.2	45.1
Nonfarm laborers	3,786	327	759	2,700	2,080	315	305	34.5	41.1
Service workers	4,677	231	1,146	3,300	2,292	422	586	36.2	43.5
Private household	29	10	9	10	6	1	3	28.1	42.2
Other service workers	4,648	222	1,137	3,289	2,285	421	583	36.2	43.5
Females, 16 years and over	38,585	2,177	9,128	27,280	22,246	2,606	2,428	34.3	40.4
White-collar workers	25,674	949	5,459	19,266	15,615	1,847	1,804	35.3	40.5
Professional and technical	6,691	187	1,214	5,290	4,074	607	609	36.5	41.0
Managers and administrators, except farm	2,666	59	324	2,303	1,431	330	542	41.0	44.3
Sales workers	2,490	203	1,096	1,191	926	105	160	29.1	40.6
Clerical workers	13,807	499	2,824	10,484	9,185	806	493	34.8	39.5
Blue-collar workers	5,252	576	595	4,081	3,428	410	243	36.0	39.9
Craft and kindred workers	635	34	94	507	386	64	57	37.4	41.3
Operatives, except transport	3,898	485	287	3,126	2,689	297	140	36.4	39.5
Transport equipment operatives	265	14	117	134	85	20	29	31.8	43.5
Nonfarm laborers	454	44	98	312	265	30	17	33.0	39.8
Service workers	7,659	652	3,074	3,933	3,203	349	381	30.0	40.4
Private household	956	104	511	341	238	43	60	24.3	42.6
Other service workers	6,703	548	2,563	3,592	2,966	306	320	30.8	40.2

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

[Numbers in thousands]

Employment status	May 1980								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,620	3,875	3,745	6,331	3,228	3,103	1,289	647	641
Civilian labor force	1,410	844	566	1,287	770	518	123	74	49
Employed	1,158	683	475	1,103	654	449	55	29	26
Agriculture	161	139	23	155	132	23	6	7	--
Nonagricultural industries	997	544	453	948	522	426	49	22	27
Unemployed	252	161	91	185	116	69	67	45	22
Unemployment rate	17.9	19.1	16.1	14.4	15.1	13.3	54.5	(1)	(1)
Not in labor force	6,210	3,031	3,178	5,044	2,458	2,585	1,166	573	593
Keeping house	36	5	31	23	3	19	13	1	12
Going to school	6,067	2,971	3,095	4,923	2,399	2,524	1,143	572	571
Unable to work	8	5	3	7	5	3	--	--	--
All other reasons	100	51	49	90	51	39	9	--	10

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

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

Characteristics	May 1980					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,158	683	475	100.0	100.0	100.0
Nonagricultural industries	997	544	453	86.1	79.5	95.0
Wage and salary workers	893	474	419	77.1	69.3	87.8
Private household workers	335	118	218	28.9	17.3	45.7
Government workers	40	26	15	3.5	3.8	3.1
Other wage and salary workers	518	331	187	44.7	48.4	39.2
Self-employed workers	91	63	29	7.9	9.2	6.1
Unpaid family workers	13	7	5	1.1	1.0	1.0
Agriculture	161	139	23	13.9	20.3	4.8
Wage and salary workers	86	73	14	7.4	10.7	2.9
Self-employed workers	25	25	--	2.2	3.7	--
Unpaid family workers	50	41	9	4.3	6.0	1.9
OCCUPATION						
Total	1,158	683	475	100.0	100.0	100.0
White-collar workers	279	184	95	24.1	27.0	20.0
Professional and technical	25	12	13	2.2	1.8	2.7
Managers and administrators, except farm	5	4	1	.4	.6	.2
Sales workers	199	154	45	17.2	22.6	9.5
Clerical workers	50	14	36	4.3	2.1	7.6
Blue-collar workers	267	245	22	23.0	35.9	4.6
Craft and kindred workers	9	9	--	.8	1.3	--
Operatives, except transport	30	25	5	2.6	3.7	1.1
Transport equipment operatives	5	3	2	.4	.4	.4
Nonfarm laborers	224	207	16	19.3	30.4	3.4
Service workers	495	158	337	42.7	23.2	70.8
Private household workers	241	21	220	20.8	3.1	46.2
Other service workers	255	137	117	22.0	20.1	24.6
Farm workers	116	96	21	10.0	14.1	4.4
Farmers and farm managers	2	2	--	.2	.3	--
Farm laborers and supervisors	114	94	21	9.8	13.8	4.4

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

(Numbers in thousands)

Employment status	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
TOTAL													
Total noninstitutional population ¹	163,260	163,469	163,685	163,891	164,106	164,468	164,682	164,898	165,101	165,298	165,506	165,693	165,886
Armed Forces ¹	2,076	2,076	2,082	2,090	2,092	2,093	2,092	2,089	2,081	2,086	2,090	2,092	2,088
Civilian noninstitutional population ¹	161,182	161,393	161,604	161,801	162,013	162,375	162,589	162,809	163,020	163,211	163,416	163,601	163,799
Civilian labor force	102,398	102,476	103,093	103,128	103,494	103,595	103,652	103,999	104,225	104,260	104,094	104,419	105,142
Percent of civilian population	63.5	63.5	63.8	63.7	63.9	63.8	63.8	63.9	63.9	63.9	63.7	63.8	64.2
Employed	96,495	96,652	97,184	97,004	97,504	97,474	97,608	97,912	97,804	97,953	97,656	97,154	96,988
Percent of total population	59.1	59.1	59.4	59.2	59.4	59.3	59.3	59.4	59.2	59.3	59.0	58.6	58.5
Agriculture	3,246	3,243	3,267	3,315	3,364	3,294	3,385	3,359	3,270	3,326	3,358	3,242	3,379
Nonagricultural industries	93,249	93,409	93,917	93,689	94,140	94,180	94,223	94,553	94,534	94,626	94,298	93,912	93,609
Unemployed	5,903	5,824	5,909	6,124	5,990	6,121	6,044	6,087	6,425	6,307	6,438	7,265	8,154
Unemployment rate	5.8	5.7	5.7	5.9	5.8	5.9	5.8	5.9	6.2	6.0	6.2	7.0	7.8
Not in labor force	56,784	58,917	56,511	58,673	58,519	58,780	58,937	58,810	56,791	58,951	59,322	59,182	58,657
Males, 20 years and over													
Total noninstitutional population ¹	69,787	69,889	69,995	70,099	70,205	70,380	70,487	70,594	70,695	70,792	70,896	70,988	71,083
Civilian noninstitutional population ¹	68,123	68,227	68,319	68,417	68,522	68,697	68,804	68,940	69,047	69,140	69,238	69,329	69,428
Civilian labor force	54,288	54,370	54,579	54,597	54,735	54,760	54,709	54,781	54,855	55,038	54,996	55,114	55,467
Percent of civilian population	79.7	79.7	79.9	79.8	79.9	79.7	79.5	79.5	79.4	79.6	79.4	79.5	79.9
Employed	52,158	52,201	52,325	52,311	52,453	52,443	52,374	52,478	52,279	52,531	52,300	51,868	51,796
Percent of total population	74.7	74.7	74.8	74.6	74.7	74.5	74.3	74.3	73.9	74.2	73.8	73.1	72.9
Agriculture	2,301	2,305	2,327	2,375	2,377	2,371	2,438	2,427	2,387	2,435	2,394	2,320	2,384
Nonagricultural industries	49,857	49,896	49,998	49,936	50,076	50,072	49,936	50,051	49,892	50,096	49,906	49,548	49,412
Unemployed	2,130	2,169	2,254	2,286	2,282	2,317	2,335	2,303	2,577	2,507	2,696	3,246	3,671
Unemployment rate	3.9	4.0	4.1	4.2	4.2	4.2	4.3	4.2	4.7	4.6	4.9	5.9	6.6
Not in labor force	13,835	13,857	13,740	13,820	13,787	13,937	14,095	14,159	14,192	14,102	14,242	14,215	13,961
Females, 20 years and over													
Total noninstitutional population ¹	76,782	76,896	77,014	77,127	77,245	77,429	77,547	77,666	77,779	77,890	78,005	78,110	78,219
Civilian noninstitutional population ¹	76,670	76,784	76,897	77,006	77,124	77,308	77,426	77,542	77,656	77,766	77,876	77,981	78,090
Civilian labor force	38,619	38,653	39,033	39,304	39,239	39,362	39,445	39,659	39,878	39,857	39,751	40,137	40,246
Percent of civilian population	50.4	50.3	50.8	51.0	50.9	50.9	50.9	51.1	51.4	51.3	51.0	51.5	51.5
Employed	36,411	36,457	36,873	37,000	37,075	37,112	37,248	37,402	37,574	37,604	37,496	37,602	37,576
Percent of total population	47.4	47.4	47.9	48.0	48.0	47.9	48.0	48.2	48.3	48.3	48.1	48.1	48.0
Agriculture	577	583	585	600	628	572	612	582	540	567	582	552	616
Nonagricultural industries	35,834	35,874	36,288	36,400	36,447	36,540	36,636	36,820	37,034	37,037	36,914	37,051	36,960
Unemployed	2,208	2,196	2,160	2,304	2,164	2,250	2,197	2,257	2,304	2,254	2,255	2,534	2,670
Unemployment rate	5.7	5.7	5.5	5.9	5.5	5.7	5.6	5.7	5.8	5.7	5.7	6.3	6.6
Not in labor force	38,051	38,131	37,864	37,702	37,885	37,946	37,981	37,883	37,778	37,909	38,125	37,844	37,844
Both sexes, 18-19 years													
Total noninstitutional population ¹	16,692	16,684	16,677	16,665	16,655	16,659	16,648	16,638	16,627	16,616	16,606	16,595	16,584
Civilian noninstitutional population ¹	16,389	16,381	16,387	16,377	16,367	16,370	16,360	16,326	16,317	16,305	16,302	16,291	16,281
Civilian labor force	9,491	9,453	9,481	9,227	9,520	9,473	9,498	9,559	9,497	9,365	9,346	9,168	9,429
Percent of civilian population	57.9	57.7	57.9	56.3	58.2	57.9	58.1	58.6	58.2	57.4	57.3	56.3	57.9
Employed	7,926	7,994	7,986	7,693	7,976	7,919	7,986	8,032	7,952	7,818	7,859	7,683	7,616
Percent of total population	47.5	47.9	47.9	46.2	47.9	47.5	48.0	48.3	47.8	47.1	47.3	46.3	45.9
Agriculture	368	355	355	340	359	351	335	350	344	325	381	370	379
Nonagricultural industries	7,558	7,639	7,631	7,353	7,617	7,568	7,651	7,682	7,608	7,493	7,478	7,313	7,237
Unemployed	1,565	1,459	1,495	1,534	1,544	1,554	1,512	1,527	1,545	1,547	1,487	1,485	1,813
Unemployment rate	16.5	15.4	15.8	16.6	16.2	16.4	15.9	16.0	16.3	16.5	15.9	16.2	19.2
Not in labor force	6,898	6,928	6,906	7,150	6,847	6,897	6,862	6,767	6,820	6,940	6,956	7,123	6,852

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

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Full- and part-time employment status	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
FULL TIME													
Total, 16 years and over:													
Civilian labor force	87,397	87,501	87,749	87,685	88,134	88,394	88,469	88,576	88,627	88,747	88,604	89,121	89,852
Employed	82,864	82,986	83,132	82,958	83,419	83,598	83,699	83,785	83,581	83,805	83,436	83,246	83,112
Unemployed	4,533	4,515	4,617	4,727	4,715	4,796	4,770	4,791	5,046	4,942	5,168	5,875	6,740
Unemployment rate	5.2	5.2	5.3	5.4	5.3	5.4	5.4	5.4	5.7	5.6	5.8	6.6	7.5
PART TIME													
Total, 16 years and over:													
Civilian labor force	14,962	15,064	15,448	15,535	15,275	15,165	15,158	15,411	15,666	15,551	15,398	15,290	15,266
Employed	13,573	13,762	14,161	14,163	13,987	13,822	13,906	14,102	14,302	14,168	14,123	13,927	13,849
Unemployed	1,389	1,302	1,287	1,372	1,288	1,343	1,252	1,309	1,364	1,383	1,275	1,363	1,417
Unemployment rate	9.3	8.6	8.3	8.8	8.4	8.9	8.3	8.5	8.7	8.9	8.3	8.9	9.3

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

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

(Numbers in thousands)

Characteristics	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
WHITE													
Total, 16 years and over:													
Civilian labor force	90,120	90,215	90,659	90,759	91,082	91,147	91,242	91,579	91,852	91,977	91,821	92,083	92,535
Employed	85,632	85,775	86,120	85,976	86,425	86,454	86,571	86,894	86,695	87,081	86,822	86,385	86,148
Unemployed	4,488	4,440	4,539	4,783	4,657	4,693	4,671	4,685	4,957	4,896	4,999	5,698	6,386
Unemployment rate	5.0	4.9	5.0	5.3	5.1	5.1	5.1	5.1	5.4	5.3	5.4	6.2	6.9
Males, 20 years and over:													
Civilian labor force	48,421	48,525	48,634	48,646	48,727	48,752	48,754	48,811	48,964	49,170	49,093	49,201	49,525
Employed	46,797	46,831	46,873	46,833	46,920	46,948	46,939	47,025	46,950	47,205	46,922	46,610	46,597
Unemployed	1,624	1,694	1,761	1,813	1,807	1,804	1,815	1,786	2,014	1,964	2,171	2,551	2,928
Unemployment rate	3.4	3.5	3.6	3.7	3.7	3.7	3.7	3.7	4.1	4.0	4.4	5.3	5.9
Females, 20 years and over:													
Civilian labor force	33,286	33,288	33,604	33,879	33,858	33,946	33,979	34,205	34,411	34,444	34,381	34,668	34,650
Employed	31,617	31,649	31,986	32,126	32,223	32,249	32,310	32,492	32,654	32,668	32,704	32,757	32,649
Unemployed	1,669	1,639	1,618	1,753	1,635	1,697	1,669	1,713	1,757	1,776	1,677	1,911	2,001
Unemployment rate	5.0	4.9	4.8	5.2	4.8	5.0	4.9	5.0	5.1	5.2	4.9	5.5	5.8
Both sexes, 16 to 19 years:													
Civilian labor force	8,413	8,402	8,421	8,234	8,497	8,449	8,509	8,563	8,477	8,363	8,347	8,214	8,359
Employed	7,218	7,295	7,261	7,017	7,282	7,257	7,322	7,377	7,291	7,207	7,196	7,018	6,902
Unemployed	1,195	1,107	1,160	1,217	1,215	1,192	1,187	1,186	1,186	1,156	1,151	1,196	1,457
Unemployment rate	14.2	13.2	13.8	14.8	14.3	14.1	13.9	13.9	14.0	13.8	13.8	14.6	17.4
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	12,219	12,260	12,386	12,343	12,404	12,512	12,391	12,432	12,453	12,362	12,266	12,319	12,559
Employed	10,816	10,887	11,023	10,982	11,063	11,076	11,044	11,024	10,979	10,937	10,823	10,771	10,813
Unemployed	1,403	1,373	1,363	1,361	1,341	1,436	1,347	1,408	1,474	1,424	1,443	1,549	1,746
Unemployment rate	11.5	11.2	11.0	11.0	10.8	11.5	10.9	11.3	11.8	11.5	11.8	12.6	13.9
Males, 20 years and over:													
Civilian labor force	5,847	5,889	5,961	5,956	5,989	6,003	5,927	5,954	5,925	5,914	5,883	5,897	5,922
Employed	5,358	5,414	5,463	5,471	5,510	5,486	5,429	5,439	5,358	5,368	5,334	5,254	5,211
Unemployed	489	475	498	485	479	517	498	515	567	546	548	643	711
Unemployment rate	8.4	8.1	8.4	8.1	8.0	8.6	8.4	8.6	9.6	9.2	9.3	10.9	12.0
Females, 20 years and over:													
Civilian labor force	5,309	5,357	5,398	5,395	5,388	5,476	5,455	5,467	5,493	5,414	5,394	5,477	5,577
Employed	4,779	4,799	4,857	4,842	4,858	4,920	4,937	4,921	4,944	4,928	4,826	4,852	4,915
Unemployed	530	558	541	553	530	556	518	546	549	486	568	624	661
Unemployment rate	10.0	10.4	10.0	10.3	9.8	10.2	9.5	10.0	10.0	9.0	10.5	11.4	11.9
Both sexes, 16 to 19 years:													
Civilian labor force	1,063	1,014	1,027	992	1,027	1,033	1,009	1,011	1,035	1,034	990	946	1,060
Employed	679	674	703	669	695	670	678	664	677	642	663	664	687
Unemployed	384	340	324	323	332	363	331	347	358	392	327	282	373
Unemployment rate	36.1	33.5	31.5	32.6	32.3	35.1	32.8	34.3	34.6	37.9	33.0	29.8	35.2

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

(Unemployment rates)

Selected categories	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
CHARACTERISTICS													
Total (all civilian workers)	5.8	5.7	5.7	5.9	5.8	5.9	5.8	5.9	6.2	6.0	6.2	7.0	7.8
Males, 20 years and over	3.9	4.0	4.1	4.2	4.2	4.2	4.3	4.2	4.7	4.6	4.9	5.9	6.6
Females, 20 years and over	5.7	5.7	5.5	5.9	5.5	5.7	5.6	5.7	5.8	5.7	5.7	6.3	6.6
Both sexes, 18-19 years	16.5	15.4	15.2	16.6	16.2	16.4	15.5	16.0	16.3	16.5	15.9	16.2	19.2
White	5.0	4.9	5.0	5.3	5.1	5.1	5.1	5.1	5.4	5.3	5.4	6.2	6.9
Black and other	11.5	11.2	11.0	11.0	10.8	11.5	10.9	11.3	11.8	11.5	11.8	12.6	13.9
Married men, spouse present	2.5	2.7	2.8	2.9	2.9	2.9	2.9	2.8	3.4	3.1	3.4	4.1	4.7
Married women, spouse present	5.2	5.1	4.9	5.3	4.8	5.2	4.8	5.0	5.2	5.4	5.3	5.7	6.3
Women who head families	8.6	9.0	8.1	7.9	7.7	8.4	8.4	8.4	9.2	8.5	8.7	9.3	8.3
Full-time workers	5.2	5.2	5.3	5.4	5.3	5.4	5.4	5.4	5.7	5.6	5.8	6.6	7.5
Part-time workers	9.3	8.6	8.3	8.8	8.4	8.9	8.3	8.5	8.7	8.9	8.3	8.9	9.3
Unemployed 15 weeks and over ¹	1.2	1.1	1.0	1.1	1.1	1.2	1.1	1.2	1.3	1.2	1.3	1.6	1.6
Labor force time lost ²	6.3	6.3	6.4	6.4	6.2	6.4	6.4	6.4	6.7	6.6	6.8	7.5	8.8
OCCUPATION													
White-collar workers	3.2	3.4	3.3	3.5	3.3	3.4	3.2	3.3	3.4	3.4	3.3	3.7	3.9
Professional and technical	2.1	2.5	2.5	2.5	2.4	2.7	2.4	2.3	2.2	2.3	2.3	2.4	2.7
Managers and administrators, except farm	2.2	2.1	2.0	2.3	2.2	2.2	1.9	2.0	1.9	2.2	2.4	2.6	2.7
Sales workers	4.0	4.4	3.5	4.0	3.8	3.8	3.7	3.8	4.4	4.5	4.0	4.7	4.5
Clerical workers	4.5	4.6	4.5	4.9	4.5	4.7	4.4	4.6	4.8	4.7	4.5	5.1	5.4
Blue-collar workers	6.8	6.6	6.8	7.3	7.1	7.2	7.5	7.2	8.0	7.7	8.0	9.7	11.3
Craft and kindred workers	4.2	4.3	4.4	4.7	4.3	4.6	4.9	4.4	4.9	4.8	5.4	6.7	8.1
Operatives, except transport	8.2	7.7	8.3	8.9	9.0	9.1	9.0	9.0	9.9	9.2	9.3	11.6	14.0
Transport equipment operatives	5.4	5.7	5.1	6.2	6.1	5.6	5.2	5.0	6.9	6.7	6.6	8.9	9.0
Nonfarm laborers	11.1	10.6	11.0	11.3	11.0	10.7	12.2	12.2	12.3	12.0	13.0	14.1	15.4
Service workers	7.2	7.2	7.1	7.1	6.7	6.8	6.6	6.6	6.9	6.9	7.1	8.0	8.5
Farm workers	3.6	3.2	4.2	3.9	4.1	4.3	4.5	4.3	4.4	3.9	4.0	5.0	4.8
INDUSTRY													
Nonagricultural private wage and salary workers ³	5.7	5.6	5.7	6.0	5.8	5.9	5.8	5.8	6.2	6.0	6.2	7.1	8.2
Construction	10.0	10.0	10.0	10.1	9.6	9.9	10.2	10.3	10.8	10.5	13.0	15.1	17.5
Manufacturing	5.4	5.4	5.7	5.9	6.0	6.0	5.9	5.9	6.7	6.4	6.5	7.9	9.9
Durable goods	4.4	4.9	5.4	5.4	5.3	5.5	5.6	5.5	6.7	6.3	6.4	8.3	10.5
Nondurable goods	6.9	6.3	6.2	6.8	7.1	6.8	6.3	6.4	6.8	6.7	6.7	7.4	8.8
Transportation	3.6	3.1	3.8	3.7	4.0	3.8	4.2	4.1	4.4	4.4	3.8	4.6	5.1
Wholesale and retail trade	6.4	6.7	6.3	6.5	6.4	6.4	6.5	6.4	6.6	6.4	6.3	7.0	7.6
Finance and service industries	4.9	4.7	4.5	5.2	4.7	4.9	4.6	4.7	4.6	4.6	4.9	5.1	5.7
Government workers	3.6	3.6	3.6	3.7	3.3	4.0	3.6	3.6	3.8	4.0	4.2	4.4	4.2
Agricultural wage and salary workers	9.3	7.8	9.7	9.9	10.0	9.9	10.1	9.4	10.3	9.2	10.2	11.9	11.7

¹ Unemployment as a percent of civilian labor force.

as a percent of potentially available labor force hours.

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

³ Includes mining, not shown separately.

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

(Numbers in thousands)

Weeks of unemployment	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
DURATION													
Both sexes, 16 years and over:													
Less than 5 weeks	2,823	2,880	2,820	3,168	2,778	2,955	2,919	2,916	3,184	2,995	2,995	3,309	3,872
5 to 14 weeks	1,919	1,808	1,934	1,738	2,035	1,963	1,869	1,966	1,907	2,081	2,169	2,391	2,697
15 weeks and over	1,212	1,152	1,067	1,185	1,152	1,195	1,191	1,230	1,334	1,286	1,363	1,629	1,722
15 to 26 weeks	705	656	615	658	644	678	660	711	795	790	776	953	1,014
27 weeks and over	507	496	452	527	508	517	531	519	539	496	587	676	709
Average (mean) duration, in weeks	10.9	10.5	10.1	10.7	10.7	10.5	10.6	10.5	10.5	10.7	11.0	11.3	10.5
Median duration, in weeks	5.6	5.6	6.0	4.9	5.8	5.5	5.3	5.5	5.2	5.8	5.9	5.7	5.7
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	47.4	49.3	48.4	52.0	46.6	48.3	48.8	47.7	49.6	47.1	45.9	45.1	46.7
5 to 14 weeks	32.2	31.0	33.2	28.5	34.1	32.1	31.3	32.2	29.7	32.7	33.2	32.6	32.5
15 weeks and over	20.4	19.7	18.3	19.5	19.3	19.5	19.9	20.1	20.8	20.2	20.9	22.2	20.8
15 to 26 weeks	11.8	11.2	10.6	10.8	10.8	11.1	11.0	11.6	12.4	12.4	11.9	13.0	12.2
27 weeks and over	8.5	8.5	7.8	8.7	8.5	8.5	8.9	8.5	8.4	7.8	9.0	9.2	8.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

Sex and age	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total, 16 years and over.....	5.8	5.7	5.7	5.9	5.8	5.9	5.8	5.9	6.2	6.0	6.2	7.0	7.8
16 to 19 years	16.5	15.4	15.8	16.6	16.2	16.4	15.9	16.0	16.3	16.5	15.9	16.2	19.2
16 to 17 years	18.9	17.5	17.3	18.5	16.9	18.4	17.3	18.0	19.0	18.7	17.4	18.7	21.7
18 to 19 years	15.0	14.4	14.5	15.4	15.6	15.0	14.7	14.5	14.0	15.1	14.7	14.4	17.7
20 to 24 years	8.9	8.9	9.1	9.3	9.2	9.6	8.6	9.8	10.1	9.5	9.7	11.4	12.7
25 years and over	3.9	3.9	3.9	4.0	3.9	4.0	4.0	3.8	4.2	4.1	4.4	5.0	5.5
25 to 54 years	4.0	4.1	4.0	4.2	4.1	4.2	4.3	4.1	4.4	4.5	4.7	5.4	5.9
55 years and over	3.1	2.9	3.2	3.1	2.9	3.0	2.7	2.7	3.5	2.8	2.8	3.4	3.6
Males, 16 years and over.....	5.0	4.9	5.1	5.2	5.2	5.2	5.2	5.2	5.7	5.5	5.7	6.7	7.7
16 to 19 years	16.1	14.5	15.4	16.3	16.1	15.7	15.8	15.6	16.2	15.6	14.8	16.1	19.7
16 to 17 years	18.9	16.8	16.1	18.0	16.7	17.1	17.8	17.9	19.0	18.0	15.9	18.3	22.0
18 to 19 years	14.0	14.0	14.8	15.1	15.3	14.4	14.0	13.6	13.9	14.1	14.0	14.2	17.9
20 to 24 years	8.2	8.3	8.8	8.8	8.8	9.5	8.4	9.4	10.4	9.9	10.4	12.3	13.7
25 years and over	3.1	3.2	3.3	3.4	3.3	3.4	3.5	3.2	3.7	3.6	3.9	4.7	5.3
25 to 54 years	3.2	3.2	3.4	3.5	3.6	3.5	3.8	3.4	3.8	3.8	4.2	5.0	5.7
55 years and over	2.8	3.1	3.3	3.1	2.8	2.8	2.6	2.6	3.5	2.6	2.7	3.4	3.5
Females, 16 years and over.....	6.9	6.8	6.6	7.0	6.6	6.9	6.6	6.8	6.8	6.8	6.8	7.3	7.8
16 to 19 years	16.9	16.5	16.2	17.0	16.4	17.2	16.1	16.4	16.3	17.6	17.3	16.3	18.7
16 to 17 years	18.8	18.3	18.6	19.0	17.2	19.8	16.7	18.0	19.1	19.5	19.2	19.1	21.4
18 to 19 years	16.0	14.9	14.2	15.7	15.9	15.6	15.5	15.5	14.2	16.2	15.6	14.6	17.5
20 to 24 years	9.7	9.7	9.4	9.8	9.6	9.7	9.3	10.2	9.8	9.1	9.0	10.2	11.6
25 years and over	4.9	4.8	4.7	4.9	4.6	4.9	4.7	4.7	4.9	4.9	5.0	5.5	5.7
25 to 54 years	5.2	5.2	5.0	5.3	5.0	5.2	5.0	5.1	5.2	5.4	5.5	6.0	6.1
55 years and over	3.6	2.8	3.1	3.2	2.9	3.4	2.9	2.9	3.4	3.0	2.9	3.4	3.6

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

[Numbers in thousands]

Reason for unemployment	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	2,356	2,449	2,526	2,680	2,632	2,731	2,729	2,728	2,988	2,907	3,047	3,611	4,301
On layoff	725	816	797	915	855	929	987	944	1,019	1,031	1,129	1,424	1,944
Other job losers	1,631	1,633	1,729	1,765	1,777	1,802	1,742	1,784	1,969	1,876	1,918	2,186	2,357
Job leavers	940	857	846	875	825	835	845	800	779	813	788	926	992
Reentrants	1,767	1,753	1,762	1,788	1,760	1,762	1,698	1,771	1,797	1,784	1,803	1,967	2,015
New entrants	824	781	726	745	801	804	736	858	811	827	805	743	884
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	40.0	41.9	43.1	44.0	43.7	44.5	45.4	44.3	46.9	45.9	47.3	49.8	52.5
On layoff	12.3	14.0	13.6	15.0	14.2	15.2	16.4	15.3	16.0	16.3	17.5	19.6	23.7
Other job losers	27.7	28.0	29.5	29.0	29.5	29.4	29.0	29.0	30.9	29.6	29.8	30.2	28.8
Job leavers	16.0	14.7	14.4	14.4	13.7	13.6	14.1	13.0	12.2	12.8	12.2	12.8	12.1
Reentrants	30.0	30.0	30.1	29.4	29.2	28.7	28.3	28.8	28.2	28.2	28.0	27.1	24.6
New entrants	14.0	13.4	12.4	12.2	13.3	13.1	12.3	13.9	12.7	13.1	12.5	10.3	10.8
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.3	2.4	2.5	2.6	2.5	2.6	2.6	2.6	2.9	2.8	2.9	3.5	4.1
On layoff .....	.9	.8	.8	.8	.8	.8	.8	.8	.7	.8	.8	.9	.9
Other job losers	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.7	1.7	1.7	1.7	1.9	1.9
Job leavers .....	.8	.8	.7	.7	.8	.8	.7	.8	.8	.8	.8	.7	.8

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total, 16 years and over	96,495	96,652	97,184	97,004	97,504	97,474	97,608	97,912	97,804	97,953	97,656	97,154	96,988
16 to 19 years	7,926	7,994	7,986	7,693	7,976	7,919	7,986	8,032	7,952	7,818	7,859	7,683	7,616
18 to 17 years	3,212	3,252	3,242	3,048	3,335	3,251	3,315	3,320	3,247	3,120	3,185	3,039	3,033
18 to 19 years	4,699	4,704	4,725	4,623	4,665	4,674	4,694	4,717	4,726	4,722	4,660	4,640	4,566
20 to 24 years	13,867	13,859	13,910	13,849	13,949	13,875	13,920	13,837	13,819	13,846	13,749	13,624	13,575
25 years and over	74,711	74,864	75,290	75,436	75,616	75,728	75,650	76,030	76,080	76,295	76,012	75,807	75,810
25 to 54 years	60,331	60,552	60,986	61,082	61,208	61,302	61,281	61,686	61,799	61,815	61,719	61,564	61,416
55 years and over	14,311	14,305	14,304	14,399	14,381	14,417	14,368	14,350	14,292	14,464	14,326	14,298	14,325
Males, 16 years and over	56,372	56,477	56,570	56,408	56,714	56,629	56,580	56,734	56,486	56,732	56,601	55,998	55,823
16 to 19 years	4,214	4,276	4,245	4,097	4,261	4,186	4,206	4,256	4,207	4,201	4,301	4,130	4,027
18 to 17 years	1,745	1,754	1,743	1,632	1,839	1,758	1,755	1,783	1,745	1,719	1,804	1,661	1,634
18 to 19 years	2,470	2,489	2,485	2,445	2,452	2,430	2,462	2,477	2,478	2,494	2,488	2,471	2,395
20 to 24 years	7,515	7,530	7,510	7,498	7,590	7,531	7,533	7,498	7,441	7,477	7,453	7,294	7,309
25 years and over	44,658	44,681	44,806	44,818	44,912	44,924	44,796	44,966	44,883	45,070	44,833	44,557	44,535
25 to 54 years	35,857	35,921	36,020	35,962	36,052	36,100	36,020	36,206	36,161	36,136	36,036	35,818	35,747
55 years and over	8,802	8,767	8,789	8,831	8,844	8,793	8,782	8,759	8,723	8,904	8,842	8,764	8,784
Females, 16 years and over	40,123	40,175	40,614	40,596	40,790	40,845	41,028	41,178	41,318	41,221	41,054	41,156	41,165
16 to 19 years	3,712	3,718	3,741	3,596	3,715	3,733	3,780	3,776	3,744	3,617	3,558	3,554	3,585
18 to 17 years	1,467	1,498	1,499	1,416	1,496	1,493	1,560	1,537	1,502	1,401	1,381	1,378	1,399
18 to 19 years	2,229	2,215	2,240	2,178	2,213	2,244	2,232	2,240	2,248	2,228	2,172	2,169	2,171
20 to 24 years	6,348	6,329	6,400	6,351	6,359	6,344	6,387	6,339	6,377	6,369	6,296	6,331	6,266
25 years and over	30,053	30,183	30,484	30,618	30,704	30,804	30,854	31,064	31,197	31,225	31,178	31,250	31,275
25 to 54 years	24,474	24,631	24,966	25,120	25,156	25,202	25,261	25,480	25,638	25,679	25,683	25,746	25,669
55 years and over	5,509	5,538	5,515	5,568	5,537	5,624	5,586	5,591	5,569	5,560	5,484	5,533	5,541

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

[In thousands]

Sex and age	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total, 16 years and over	5,903	5,824	5,909	6,124	5,990	6,121	6,044	6,087	6,425	6,307	6,438	7,265	8,154
16 to 19 years	1,565	1,459	1,495	1,534	1,544	1,554	1,512	1,527	1,545	1,547	1,487	1,485	1,813
18 to 17 years	747	690	676	690	680	732	692	728	764	716	671	698	841
18 to 19 years	829	791	803	841	860	825	811	802	772	841	806	780	983
20 to 24 years	1,355	1,359	1,386	1,415	1,413	1,470	1,346	1,505	1,554	1,458	1,482	1,748	1,982
25 years and over	2,997	3,005	3,041	3,155	3,036	3,140	3,168	3,040	3,326	3,300	3,463	4,029	4,374
25 to 54 years	2,520	2,562	2,567	2,697	2,647	2,698	2,744	2,650	2,818	2,859	3,064	3,518	3,836
55 years and over	465	434	478	467	422	449	403	400	512	412	410	503	529
Males, 16 years and over	2,941	2,893	3,027	3,083	3,098	3,098	3,124	3,089	3,392	3,283	3,441	4,040	4,656
16 to 19 years	811	724	773	797	816	781	789	786	815	776	745	794	985
18 to 17 years	407	355	334	358	370	363	380	390	410	377	342	373	461
18 to 19 years	403	404	431	436	442	410	402	391	399	411	405	409	521
20 to 24 years	674	682	723	724	734	789	692	782	860	817	863	1,028	1,163
25 years and over	1,451	1,483	1,531	1,575	1,552	1,565	1,642	1,505	1,719	1,680	1,826	2,214	2,500
25 to 54 years	1,173	1,201	1,252	1,299	1,327	1,322	1,405	1,282	1,410	1,435	1,573	1,886	2,155
55 years and over	258	276	302	283	254	254	237	231	314	242	246	311	322
Females, 16 years and over	2,962	2,931	2,882	3,041	2,892	3,023	2,920	2,998	3,034	3,025	2,997	3,225	3,498
16 to 19 years	754	735	722	737	728	773	723	741	730	771	742	691	828
18 to 17 years	340	335	342	332	310	369	312	338	354	339	329	325	380
18 to 19 years	426	387	372	405	416	415	409	411	373	430	401	371	462
20 to 24 years	681	677	663	691	679	681	654	723	694	641	620	721	819
25 years and over	1,546	1,522	1,510	1,580	1,484	1,575	1,526	1,535	1,607	1,621	1,637	1,815	1,874
25 to 54 years	1,347	1,361	1,315	1,398	1,320	1,376	1,339	1,368	1,408	1,465	1,491	1,631	1,682
55 years and over	207	158	176	184	168	195	166	169	198	170	165	192	207

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(In thousands)

Selected categories	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
CHARACTERISTICS													
Total, 16 years and over	96,495	96,652	97,184	97,004	97,504	97,474	97,608	97,912	97,804	97,953	97,656	97,154	96,968
Married men, spouse present	39,045	39,079	39,176	39,180	39,158	39,124	38,845	38,924	38,749	38,955	38,745	38,342	38,147
Married women, spouse present	22,547	22,664	22,908	22,869	22,937	22,919	22,940	23,027	23,111	23,178	23,202	23,080	23,155
OCCUPATION													
White-collar workers	49,136	49,192	49,536	49,663	49,816	49,738	49,912	49,911	50,313	50,448	50,302	50,405	50,606
Professional and technical	15,100	15,010	15,057	15,068	15,141	15,057	15,131	15,272	15,337	15,444	15,397	15,542	15,551
Managers and administrators, except farm	10,427	10,534	10,612	10,698	10,659	10,639	10,617	10,535	10,608	10,971	10,755	10,745	10,882
Sales workers	6,101	6,103	6,163	6,145	6,181	6,261	6,362	6,346	6,452	6,185	6,113	5,988	6,022
Clerical workers	17,508	17,545	17,704	17,752	17,835	17,781	17,802	17,758	17,915	17,848	18,037	18,129	18,152
Blue-collar workers	31,904	31,992	32,051	31,849	32,209	32,205	32,110	32,302	31,882	31,754	31,670	31,127	30,681
Craft and kindred workers	12,820	12,944	12,876	12,761	12,993	13,001	12,925	13,041	12,814	12,728	12,767	12,773	12,523
Operatives, except transport Transport equipment operatives	10,755	10,804	10,884	10,909	10,964	10,967	10,963	11,042	10,678	10,661	10,579	10,408	10,336
Nonfarm laborers	3,644	3,605	3,627	3,604	3,617	3,593	3,628	3,635	3,616	3,571	3,558	3,483	3,421
Farm workers	4,685	4,639	4,664	4,575	4,635	4,644	4,594	4,584	4,774	4,795	4,767	4,463	4,402
Service workers	12,772	12,805	12,766	12,621	12,859	12,937	12,899	12,970	12,979	13,080	12,981	13,034	12,932
Farm workers	2,628	2,679	2,678	2,707	2,722	2,695	2,718	2,694	2,660	2,764	2,733	2,658	2,745
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,424	1,423	1,419	1,384	1,399	1,381	1,475	1,451	1,428	1,417	1,449	1,370	1,405
Self-employed workers	1,519	1,539	1,558	1,614	1,642	1,602	1,622	1,556	1,554	1,648	1,600	1,591	1,662
Unpaid family workers	283	291	291	310	325	313	310	310	293	283	300	281	289
Nonagricultural industries:													
Wage and salary workers	86,232	86,309	86,454	86,421	86,912	86,982	87,020	87,384	87,578	87,419	87,221	86,741	86,631
Government	15,616	15,318	15,393	15,279	15,407	15,423	15,358	15,397	15,414	15,540	15,622	15,668	15,799
Private industries	70,616	70,991	71,061	71,142	71,505	71,559	71,662	71,987	72,163	71,879	71,599	71,072	70,832
Private households	1,195	1,235	1,219	1,211	1,313	1,261	1,211	1,228	1,132	1,178	1,115	1,123	1,206
Other industries	69,421	69,756	69,842	69,931	70,192	70,298	70,451	70,759	71,031	70,702	70,484	69,949	69,625
Self-employed workers	6,608	6,629	6,752	6,689	6,731	6,812	6,781	6,737	6,752	6,899	6,825	6,813	6,648
Unpaid family workers	460	474	519	450	449	430	417	409	379	397	376	363	411
PERSONS AT WORK¹													
Nonagricultural industries	87,785	87,749	88,769	88,855	88,723	88,638	88,617	89,180	89,454	88,985	88,585	87,660	87,680
Full-time schedules	72,496	72,243	72,915	73,053	73,159	73,204	72,997	73,137	73,223	73,110	72,749	71,807	71,224
Part-time for economic reasons	3,283	3,284	3,274	3,298	3,167	3,315	3,392	3,519	3,513	3,406	3,418	3,816	4,349
Usually work full-time	1,273	1,322	1,334	1,401	1,273	1,354	1,413	1,491	1,549	1,380	1,463	1,709	2,064
Usually work part-time	2,010	1,962	1,940	1,897	1,894	1,961	1,979	2,028	1,964	2,026	1,955	2,107	2,285
Part time for noneconomic reasons	12,006	12,222	12,580	12,504	12,397	12,119	12,228	12,524	12,718	12,469	12,418	12,037	12,106

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	
May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	May 1979	May 1980	
VETERANS¹										
Total, 20 years and over	8,516	8,597	8,085	8,160	7,748	7,666	337	494	4.2	6.1
20 to 24 years	579	365	517	326	460	281	57	45	11.0	13.8
25 to 39 years	7,106	7,255	6,867	6,994	6,604	6,574	263	420	3.8	6.0
25 to 29 years	2,003	1,742	1,907	1,639	1,607	1,489	100	150	5.2	9.2
30 to 34 years	3,591	3,589	3,491	3,485	3,366	3,290	125	195	3.6	5.6
35 to 39 years	1,512	1,924	1,465	1,870	1,431	1,795	38	75	2.6	4.0
40 years and over	831	977	701	840	684	811	17	29	2.4	3.5
NONVETERANS²										
Total, 25 to 39 years	14,463	15,364	13,721	14,589	13,309	13,673	412	916	3.0	6.3
25 to 29 years	6,597	7,037	6,226	6,640	6,016	6,131	210	509	3.4	7.7
30 to 34 years	4,148	4,524	3,966	4,329	3,847	4,082	119	247	3.0	5.7
35 to 39 years	3,718	3,803	3,529	3,620	3,446	3,460	83	160	2.4	4.4

¹ Vietnam-era veterans are those who served between August 5, 1964 and May 7, 1975.

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

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 ^P	May 1980 ^P	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 ^P	May 1980 ^P
	TOTAL	88,820	89,671	89,960	90,295	90,606	-	-	-	-	-
	PRIVATE SECTOR	72,995	73,813	73,814	73,957	74,317	55,628	60,371	60,048	60,165	60,456
	MINING	932	944	996	1,007	1,034	699	708	739	750	770
	METAL MINING	94.9	95.8	99.7	98.8	-	72.6	73.4	75.4	75.1	-
101	Iron ores	24.4	24.7	23.6	22.6	-	19.4	19.8	18.7	17.5	-
102	Copper ores	30.6	31.0	33.5	33.8	-	23.6	23.9	25.3	26.3	-
11, 12	COAL MINING	259.7	258.1	257.5	258.9	-	217.7	215.7	214.4	216.0	-
12	BITUMINOUS COAL AND LIGNITE MINING	256.8	255.1	254.5	255.9	-	215.1	213.0	211.7	213.3	-
13	OIL AND GAS EXTRACTION	454.5	463.5	520.9	528.3	-	310.8	318.1	356.5	363.7	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	195.2	197.0	213.2	215.0	-	93.2	93.3	95.9	99.1	-
138	Oil and gas field services	259.3	266.5	307.7	313.3	-	217.6	224.8	260.6	264.6	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	123.0	126.3	118.2	121.0	-	98.1	101.0	92.3	94.7	-
142	Crushed and broken stone	41.3	42.8	38.0	39.8	-	34.6	36.2	31.5	32.9	-
144	Sand and gravel	37.4	39.3	34.8	35.7	-	-	-	-	-	-
147	Chemical and fertilizer minerals	24.0	24.0	25.0	25.0	-	-	-	-	-	-
	CONSTRUCTION	4,413	4,662	4,395	4,444	4,615	3,499	3,737	3,330	3,465	3,626
15	GENERAL BUILDING CONTRACTORS	1,257.8	1,324.0	1,169.0	1,199.8	-	567.9	1,030.5	877.4	905.7	-
152	Residential building construction	665.5	703.6	577.5	597.1	-	500.1	536.7	411.8	429.5	-
153	Operative builders	81.7	84.2	73.7	70.9	-	53.2	55.2	45.2	43.0	-
154	Nonresidential building construction	510.6	536.2	517.8	531.8	-	414.6	438.6	420.4	433.2	-
16	HEAVY CONSTRUCTION CONTRACTORS	843.8	928.8	761.2	823.8	-	693.6	777.4	595.3	657.8	-
161	Highway and street construction	256.8	310.7	216.6	257.2	-	216.5	269.9	174.4	214.7	-
162	Heavy construction, except highway	587.0	618.1	544.6	566.6	-	476.7	507.5	420.9	443.1	-
17	SPECIAL TRADE CONTRACTORS	2,310.9	2,408.7	2,374.7	2,420.1	-	1,837.1	1,928.9	1,857.5	1,901.8	-
171	Plumbing, heating, air conditioning	522.2	534.5	549.2	544.2	-	394.4	405.4	412.1	407.8	-
172	Painting, paper hanging, decorating	141.5	154.8	145.0	157.2	-	117.3	130.1	118.2	129.8	-
173	Electrical work	387.6	394.6	420.0	413.4	-	301.7	309.0	325.1	318.1	-
174	Masonry, stonework, and plastering	397.3	410.0	408.2	419.3	-	344.5	356.4	346.7	358.8	-
175	Carpentering and flooring	146.1	149.4	139.2	138.2	-	113.1	116.4	103.6	103.3	-
176	Roofing and sheet metal work	172.7	179.5	168.2	181.8	-	139.8	145.6	132.4	145.5	-
	MANUFACTURING	20,907	20,988	20,709	20,448	20,256	15,002	15,061	14,662	14,398	14,175
24, 25, 32-39	DURABLE GOODS	12,697	12,739	12,569	12,344	12,149	5,105	9,129	8,850	8,620	8,359
20-23, 26-31	NONDURABLE GOODS	8,210	8,249	8,140	8,104	8,107	5,897	5,932	5,812	5,778	5,776
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	748.8	763.8	708.5	671.1	659.1	637.4	651.6	555.9	561.0	548.8
241	Logging camps and logging contractors	81.8	87.1	83.1	78.5	-	65.8	71.4	67.7	63.5	-
242	Sawmills and planing mills	226.7	231.4	220.0	207.9	-	202.5	206.9	196.1	184.0	-
2421	Sawmills and planing mills, general	186.2	190.6	181.0	169.9	-	167.1	171.0	161.6	150.6	-
2426	Hardwood dimension and flooring	33.0	33.2	30.9	30.0	-	28.7	29.1	27.0	26.1	-
243	Millwork, plywood, and structural members	226.6	229.3	206.4	193.5	-	190.9	193.2	170.0	158.4	-
2431	Millwork	79.0	79.6	73.6	69.2	-	64.6	65.0	59.2	55.0	-
2434	Wood kitchen cabinets	51.9	52.5	45.8	43.4	-	43.9	44.4	37.9	37.7	-
2435	Hardwood veneer and plywood	27.9	27.9	26.6	26.1	-	24.9	24.9	23.6	23.0	-
2436	Softwood veneer and plywood	49.8	51.2	45.1	38.2	-	43.2	44.7	38.4	32.4	-
244	Wooden containers	45.1	45.2	40.8	40.0	-	40.2	40.0	35.6	34.9	-
245	Wood buildings and mobile homes	82.8	84.8	72.1	66.6	-	65.7	67.8	55.0	49.9	-
2451	Mobile homes	57.0	58.0	51.8	47.8	-	47.2	48.2	41.2	37.4	-
249	Miscellaneous wood products	85.8	86.0	86.1	84.6	-	72.3	72.3	71.5	70.3	-
26	FURNITURE AND FIXTURES	487.8	483.9	480.7	475.1	461.3	398.5	393.8	391.7	386.0	372.2
251	Household furniture	324.4	321.8	317.0	312.6	-	274.6	271.1	268.3	263.8	-
2511	Wood household furniture	143.7	143.4	141.4	138.4	-	126.9	126.4	124.4	121.1	-
2512	Upholstered household furniture	100.7	99.2	97.7	97.0	-	83.2	81.4	81.0	80.3	-
2614	Metal household furniture	32.4	31.5	31.7	31.5	-	26.0	25.1	25.5	25.8	-
2515	Mattresses and bedspreads	32.4	32.1	31.2	30.5	-	24.9	24.7	23.8	23.3	-
252	Office furniture	46.7	46.3	46.6	46.6	-	37.3	37.0	36.9	36.7	-
253	Public building and related furniture	25.8	25.5	24.7	24.3	-	19.7	19.4	18.3	18.0	-
254	Partitions and fixtures	63.9	64.0	65.4	65.6	-	48.3	48.2	49.5	49.4	-
259	Miscellaneous furniture and fixtures	27.0	26.3	27.0	26.0	-	18.6	18.1	18.7	18.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 p	May 1980 p	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 p	May 1980 p
TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	63.1	56.6	52.7	43.1	-	47.1	41.5	37.2	28.1	-
3792	Travel trailers and campers	41.4	35.6	30.8	22.3	-	32.3	27.5	23.4	15.1	-
38	INSTRUMENTS AND RELATED PRODUCTS	686.5	686.5	704.4	704.3	704.2	421.3	420.8	426.4	425.4	421.5
381	Engineering and scientific instruments	70.5	71.0	76.6	76.6	-	35.7	35.9	38.2	38.3	-
382	Measuring and controlling devices	226.7	226.1	232.7	232.3	-	145.3	145.3	148.0	146.9	-
3822	Environmental controls	46.7	46.2	46.3	45.9	-	32.2	32.1	32.6	32.7	-
3823	Process control instruments	51.6	51.3	52.2	52.1	-	28.0	27.8	27.3	27.1	-
3825	Instruments to measure electricity	89.9	90.1	94.5	94.9	-	57.6	57.7	55.2	55.5	-
383	Optical instruments and lenses	30.2	30.4	33.5	33.8	-	16.8	17.0	16.7	18.7	-
384	Medical instruments and supplies	146.6	147.1	153.4	154.1	-	57.8	57.5	100.8	101.5	-
3841	Surgical and medical instruments	63.6	63.9	66.7	67.1	-	42.3	42.1	44.1	44.3	-
3842	Surgical appliances and supplies	65.2	65.3	69.4	69.8	-	43.6	43.6	45.7	46.2	-
385	Ophthalmic goods	45.3	45.5	46.4	46.5	-	33.3	33.4	33.7	33.8	-
386	Photographic equipment and supplies	137.7	137.4	136.1	135.9	-	69.6	69.2	67.5	67.1	-
387	Watches, clocks, and watchcases	29.5	29.0	25.7	25.1	-	22.8	22.5	19.5	19.1	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	448.0	448.9	441.4	440.7	435.8	339.6	341.1	335.2	334.0	329.5
391	Jewelry, silverware, and plated ware	59.7	59.6	55.7	56.1	-	43.8	43.5	39.9	40.7	-
3911	Jewelry, precious metal	38.1	38.2	35.2	35.6	-	27.4	27.3	25.0	25.8	-
393	Musical instruments	25.1	24.5	22.7	23.0	-	20.6	20.2	18.8	18.7	-
394	Toys and sporting goods	116.6	118.7	117.3	116.9	-	88.2	90.7	89.4	88.8	-
3942, 4	Dolls, games, toys, and children's vehicles	55.7	57.5	54.6	54.9	-	40.1	42.3	35.7	39.9	-
3949	Sporting and athletic goods, nec	60.9	61.2	62.7	62.0	-	48.1	48.4	49.7	48.9	-
395	Pens, pencils, office and art supplies	41.0	41.2	44.0	44.3	-	29.7	29.6	31.5	31.4	-
396	Costume jewelry and notions	62.5	62.2	58.0	57.5	-	50.1	49.5	46.2	45.8	-
3961	Costume jewelry	34.4	34.5	31.4	30.5	-	27.8	27.9	24.7	23.9	-
399	Miscellaneous manufactures	143.1	142.7	143.7	142.9	-	107.2	107.2	109.4	108.6	-
3993	Signs and advertising displays	49.2	49.2	49.0	48.7	-	35.6	35.6	35.4	35.3	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,657.3	1,669.6	1,632.5	1,615.7	1,633.8	1,120.1	1,131.0	1,104.3	1,088.6	1,101.9
201	Meat products	352.2	353.8	358.0	357.8	-	250.5	253.1	256.7	256.5	-
2011	Meat packing plants	164.8	163.3	164.5	163.6	-	132.6	131.6	133.7	133.1	-
2013	Sausages and other prepared meats	67.8	68.8	68.2	67.6	-	49.4	50.5	50.1	49.1	-
2016	Poultry dressing plants	106.3	108.6	110.8	112.5	-	97.0	99.6	100.3	102.0	-
202	Dairy products	182.2	183.7	178.2	179.2	-	95.9	96.8	94.8	95.8	-
2022	Cheese, natural and processed	31.7	31.6	31.4	31.6	-	25.0	24.6	24.1	24.4	-
2026	Fluid milk	116.3	116.8	113.8	114.0	-	49.8	50.2	50.3	50.6	-
203	Preserved fruits and vegetables	215.1	220.5	196.4	190.3	-	172.0	177.3	157.4	151.8	-
2032	Canned specialties	25.9	24.6	24.4	24.1	-	18.0	16.9	17.7	17.4	-
2033	Canned fruits and vegetables	64.5	70.0	61.9	61.5	-	50.0	55.3	49.2	48.9	-
2037	Frozen fruits and vegetables	51.9	53.5	43.9	40.6	-	45.2	46.9	38.0	34.6	-
204	Grain mill products	143.1	143.4	143.3	140.5	-	57.5	57.4	58.5	55.9	-
2041	Flour and other grain mill products	26.2	26.1	26.0	25.7	-	16.4	16.3	16.0	15.8	-
2048	Prepared feeds, nec	58.2	58.3	59.1	57.7	-	37.2	37.2	38.4	37.2	-
205	Bakery products	233.9	233.9	231.4	231.2	-	136.7	136.5	134.2	134.5	-
2051	Bread, cake, and related products	190.3	191.0	188.3	187.7	-	102.2	103.1	100.7	100.6	-
2052	Cookies and crackers	43.6	42.9	43.1	43.5	-	34.5	33.4	33.5	33.9	-
206	Sugar and confectionery products	102.9	101.1	100.2	94.3	-	77.3	75.3	74.8	69.3	-
2061-3	Cane and beet sugar	28.9	27.5	25.1	22.1	-	20.3	19.0	17.3	14.8	-
2065	Confectionery products	54.5	54.1	55.4	52.7	-	43.3	42.6	43.9	41.2	-
207	Fats and oils	39.8	39.8	39.3	39.1	-	28.6	28.6	28.7	28.4	-
208	Beverages	226.1	227.2	223.1	223.9	-	105.6	105.1	99.3	99.5	-
2082	Malt beverages	49.5	49.2	48.7	48.6	-	34.3	34.0	32.0	31.7	-
2086	Bottled and canned soft drinks	134.8	137.0	135.6	137.2	-	46.9	47.8	45.4	46.4	-
209	Misc. foods and kindred products	162.0	166.2	162.6	159.4	-	116.0	120.9	119.9	116.9	-
21	TOBACCO MANUFACTURES	62.5	61.9	61.1	59.9	59.3	49.1	48.8	47.3	45.9	45.2
211	Cigarettes	44.1	43.8	42.7	43.1	-	34.3	34.1	32.6	32.9	-
22	TEXTILE MILL PRODUCTS	890.4	892.5	890.6	887.1	877.1	775.2	777.6	777.4	774.5	763.3
221	Weaving mills, cotton	150.5	150.5	152.1	152.4	-	135.8	135.8	137.1	137.4	-
222	Weaving mills, synthetics	124.3	125.0	124.1	123.5	-	111.3	111.9	111.4	110.9	-
223	Weaving and finishing mills, wool	21.3	21.3	21.1	21.1	-	17.8	17.8	17.4	17.5	-
224	Narrow fabric mills	25.3	26.3	25.3	25.0	-	22.3	23.0	22.5	22.1	-
225	Knitting mills	230.9	230.2	234.3	234.9	-	199.1	198.8	203.9	204.5	-
2251	Women's hosiery, except socks	29.5	29.6	30.3	30.1	-	26.4	26.5	27.5	27.3	-
2252	Hosiery, nec	34.5	34.7	34.8	34.9	-	31.5	31.7	31.8	32.0	-
2253	Knit outerwear mills	73.7	74.0	78.2	78.8	-	62.8	63.3	67.3	67.9	-
2254	Knit underwear mills	34.4	33.1	33.2	33.0	-	29.5	28.4	28.6	28.4	-

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				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	37.5	37.5	38.5	38.3		23.9	23.6	23.8	23.6	
2861,9	Gum, wood, and industrial organic chemicals, nec.	127.5	127.6	127.3	127.5	-	61.3	61.6	61.1	60.9	-
287	Agricultural chemicals	70.6	70.9	72.1	73.4	-	46.3	46.4	45.9	47.2	-
289	Miscellaneous chemical products	90.3	90.4	90.2	90.4	-	51.1	50.8	51.1	51.4	-
29	PETROLEUM AND COAL PRODUCTS	210.8	212.9	156.3	168.2	204.9	137.6	139.7	66.0	99.6	132.4
291	Petroleum refining	165.5	166.6	112.9	124.3	-	164.4	105.3	54.4	67.5	-
295	Paving and roofing materials	33.7	34.7	31.1	31.6	-	26.1	27.3	23.7	24.3	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	772.0	777.0	738.7	727.9	696.4	605.5	610.1	574.2	563.4	534.5
301	Tires and inner tubes	130.8	130.5	109.1	108.8	-	95.4	95.0	76.6	76.2	-
302	Rubber and plastics footwear	23.3	22.8	22.8	23.1	-	20.3	19.8	20.1	20.4	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting	22.9	23.1	21.5	21.1	-	17.1	17.3	15.4	15.1	-
306	Fabricated rubber products, nec	117.0	117.1	108.4	106.3	-	92.5	92.6	84.4	82.4	-
307	Miscellaneous plastics products	478.0	483.5	476.9	468.6	-	380.2	385.4	377.7	365.3	-
31	LEATHER AND LEATHER PRODUCTS	245.1	249.2	238.8	239.2	240.9	208.9	213.2	201.6	201.8	204.6
311	Leather tanning and finishing	20.8	20.6	19.3	19.2	-	17.5	17.4	16.1	16.0	-
314	Footwear, except rubber	150.1	153.6	149.0	151.5	-	129.1	132.6	126.9	129.1	-
3143	Men's footwear, except athletic	60.3	61.1	56.7	57.8	-	52.6	53.4	48.7	49.8	-
3144	Women's footwear, except athletic	59.7	62.0	61.8	62.7	-	50.9	53.1	52.0	52.6	-
316	Luggage	17.3	17.6	15.0	14.8	-	13.7	13.9	11.5	11.2	-
317	Handbags and personal leather goods	32.2	32.6	32.0	30.6	-	27.5	28.0	27.4	26.1	-
	TRANSPORTATION AND PUBLIC UTILITIES	4,989	5,125	5,156	5,153	5,182	4,163	4,293	4,306	4,304	4,342
40	RAILROAD TRANSPORTATION	535.7	549.3	524.2	529.6	-	-	-	-	-	-
4011	Class I railroads ²	494.1	506.7	481.6	486.6	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	265.2	271.4	274.4	268.9	-	244.2	250.7	253.2	248.3	-
411	Local and suburban transportation	71.9	73.4	75.6	74.8	-	66.6	68.0	68.9	68.3	-
412	Taxicabs	65.1	64.2	63.7	62.2	-	-	-	-	-	-
413	Intercity highway transportation	35.1	36.1	37.0	38.1	-	32.1	33.3	34.1	35.2	-
415	School buses	79.2	83.0	83.2	79.2	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,294.0	1,385.2	1,333.4	1,322.4	-	1,137.8	1,226.0	1,170.0	1,158.5	-
421,3	Trucking and trucking terminals	1,208.2	1,300.0	1,241.9	1,234.3	-	1,064.4	1,153.2	1,091.5	1,083.5	-
422	Public warehousing	85.8	85.2	91.2	88.1	-	73.4	72.8	78.1	75.0	-
44	WATER TRANSPORTATION	215.3	220.6	215.4	218.6	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	391.4	396.6	434.6	435.1	-	-	-	-	-	-
451,2	Air transportation	346.1	350.7	386.9	387.3	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	19.0	19.0	18.8	19.0	-	13.4	13.4	13.3	13.5	-
47	TRANSPORTATION SERVICES	179.1	182.2	193.3	191.1	-	-	-	-	-	-
48	COMMUNICATION	1,290.7	1,298.7	1,340.4	1,342.8	-	974.9	982.0	1,003.4	1,004.9	-
481	Telephone communication	1,031.9	1,038.2	1,063.3	1,065.3	-	762.4	768.1	775.1	776.9	-
483	Radio and television broadcasting	189.0	190.5	202.5	202.9	-	150.8	152.5	163.1	163.1	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	798.6	802.0	822.1	825.8	-	649.3	651.4	665.2	672.2	-
491	Electric services	368.4	369.7	383.9	386.3	-	296.5	297.3	310.0	311.7	-
492	Gas production and distribution	166.4	167.4	167.0	167.4	-	135.5	136.3	136.3	136.8	-
493	Combination utility services	193.1	193.9	197.3	197.8	-	156.2	156.5	159.2	159.6	-
495	Sanitary services	45.9	46.1	48.6	48.8	-	40.7	40.9	42.9	43.0	-
	WHOLESALE AND RETAIL TRADE	19,957	20,119	20,112	20,217	20,361	17,533	17,682	17,631	17,729	17,866
50,51	WHOLESALE TRADE	5,112	5,146	5,241	5,212	5,217	4,200	4,228	4,294	4,267	4,267
50	WHOLESALE TRADE - DURABLE GOODS	3,009	3,033	3,109	3,090	-	2,470	2,491	2,550	2,532	-
501	Motor vehicles and automotive equipment	435.4	438.6	426.1	422.5	-	355.6	358.4	345.6	342.2	-
502	Furniture and home furnishing	104.7	105.1	107.8	107.1	-	85.1	85.2	87.9	87.5	-
503	Lumber and construction materials	182.0	185.9	183.8	179.7	-	151.1	155.4	151.8	147.5	-
504	Sporting goods, toys, and hobby goods	60.7	61.9	64.6	65.4	-	49.8	51.0	53.0	53.8	-
505	Metals and minerals, except petroleum	151.3	152.7	157.4	157.0	-	123.2	124.5	128.2	127.4	-
506	Electrical goods	407.6	409.9	429.6	428.3	-	335.3	336.9	351.3	349.4	-
507	Hardware, plumbing, and heating equipment	236.1	238.1	244.3	242.3	-	195.9	197.5	202.8	200.5	-

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				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 ^p	May 1980 ^p	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 ^p	May 1980 ^p
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,224.6	1,234.5	1,280.5	1,274.5	-	999.7	1,007.9	1,046.8	1,042.4	-
509	Miscellaneous durable goods	206.3	206.2	214.4	213.6	-	174.5	174.2	182.1	181.7	-
51	WHOLESALE TRADE-NONDURABLE GOODS ..	2,103	2,113	2,132	2,122	-	1,730	1,737	1,744	1,735	-
511	Paper and paper products	138.6	139.1	142.2	142.6	-	112.1	112.4	116.0	116.1	-
512	Drugs, proprietaries, and sundries	140.3	141.2	146.7	146.6	-	121.0	121.5	124.0	124.1	-
513	Apparel, piece goods, and notions	166.7	167.1	173.8	172.8	-	132.5	132.0	138.3	137.5	-
514	Groceries and related products	632.2	637.9	632.9	630.0	-	544.6	549.4	544.9	542.1	-
516	Chemicals and allied products	116.6	116.6	121.1	120.4	-	84.2	84.3	85.9	89.2	-
517	Petroleum and petroleum products	224.8	226.0	224.1	223.9	-	166.0	166.6	162.4	163.0	-
518	Beer, wine, and distilled beverages	135.9	137.1	140.3	141.0	-	115.1	116.3	117.7	118.3	-
519	Miscellaneous nondurable goods	403.0	404.8	413.7	415.1	-	334.1	335.5	336.9	339.5	-
52-59	RETAIL TRADE	14,845	14,973	14,871	15,005	15,144	13,333	13,454	13,337	13,462	13,599
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	622.9	633.2	613.8	619.1	-	531.6	542.9	515.6	524.2	-
521	Lumber and other building materials	328.0	333.8	322.8	320.2	-	281.2	286.9	273.7	271.5	-
525	Hardware stores	144.2	146.8	149.8	150.9	-	123.6	126.7	128.1	128.8	-
53	GENERAL MERCHANDISE STORES	2,196.9	2,197.6	2,159.7	2,146.4	-	2,044.3	2,043.1	2,004.6	1,990.9	-
531	Department stores	1,778.9	1,776.6	1,749.4	1,730.7	-	1,666.0	1,662.0	1,635.9	1,618.9	-
533	Variety stores	280.2	280.0	262.8	266.5	-	259.4	258.8	242.4	245.5	-
539	Misc. general merchandise stores	137.8	141.0	147.5	149.2	-	118.9	122.3	126.5	126.5	-
54	FOOD STORES	2,254.6	2,260.0	2,329.6	2,318.7	-	2,079.3	2,083.4	2,152.5	2,140.5	-
541	Grocery stores	1,976.8	1,984.0	2,056.2	2,046.8	-	1,825.4	1,831.4	1,902.5	1,892.4	-
542	Meat markets and freezer provisioners	52.5	52.2	52.6	52.4	-	-	-	-	-	-
546	Retail bakeries	125.7	125.7	125.5	125.7	-	116.0	115.7	115.8	115.8	-
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,858.4	1,850.0	1,760.5	1,752.7	-	1,569.4	1,582.6	1,491.2	1,484.1	-
551.2	New and used car dealers	910.6	909.3	847.5	832.1	-	759.1	757.7	698.5	683.7	-
553	Auto and home supply stores	256.6	261.5	249.3	253.0	-	223.4	229.4	216.1	219.7	-
554	Gasoline service stations	603.6	588.7	570.7	574.7	-	532.2	518.3	496.5	500.2	-
56	APPAREL AND ACCESSORY STORES	927.4	920.9	920.1	925.7	-	800.2	793.6	766.9	751.2	-
561	Men's and boys' clothing and furnishings	138.7	138.4	137.3	137.8	-	117.9	117.5	116.0	116.6	-
562	Women's ready-to-wear stores	354.8	354.6	351.4	352.9	-	309.2	309.0	303.9	304.6	-
565	Family clothing stores	169.0	168.9	177.1	178.6	-	148.1	147.5	154.1	155.2	-
566	Shoe stores	181.9	175.6	169.7	172.8	-	152.9	146.6	139.8	143.2	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	609.3	607.8	611.9	606.8	-	503.5	502.7	505.4	500.7	-
571	Furniture and home furnishings	364.6	363.7	366.7	365.1	-	306.1	305.8	305.1	304.3	-
572	Household appliance stores	88.8	88.3	87.2	86.7	-	75.9	75.2	75.0	74.6	-
573	Radio, television, and music stores	155.9	155.8	158.0	155.0	-	121.5	121.7	125.3	121.8	-
58	EATING AND DRINKING PLACES	4,525.5	4,644.6	4,575.8	4,749.0		4,155.5	4,268.1	4,205.0	4,376.3	
59	MISCELLANEOUS RETAIL	1,849.7	1,858.7	1,899.9	1,886.3	-	1,629.5	1,637.7	1,667.1	1,653.6	-
591	Drug stores and proprietary stores	500.5	500.9	519.7	518.3	-	455.7	456.2	472.7	471.8	-
592	Liquor stores	126.7	130.7	139.7	137.2	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	551.9	554.6	584.6	581.1	-	472.2	474.4	457.7	495.4	-
596	Nonstore retailers	260.0	257.0	251.9	246.3	-	244.0	240.8	235.8	229.5	-
598	Fuel and ice dealers	102.5	99.2	105.3	100.2	-	66.9	84.1	88.7	83.8	-
599	Retail stores, nec.	253.7	261.1	241.2	246.3	-	217.0	223.9	204.4	208.0	-
	FINANCE, INSURANCE, AND REAL										
	ESTATE	4,900	4,936	5,076	5,092	5,131	3,726	3,756	3,842	3,856	3,890
60	BANKING	1,473.3	1,476.8	1,528.6	1,530.7	-	1,141.0	1,142.4	1,175.2	1,179.6	-
602	Commercial and stock savings banks	1,344.5	1,348.1	1,394.3	1,395.6	-	1,036.0	1,037.6	1,069.7	1,069.6	-
61	CREDIT AGENCIES OTHER THAN BANKS	540.9	542.7	561.0	556.0	-	415.3	416.0	427.9	423.2	-
612	Savings and loan associations	232.7	233.8	245.5	243.9	-	179.9	180.8	187.9	186.6	-
614	Personal credit institutions	208.3	209.0	215.5	213.2	-	159.1	158.9	164.5	162.3	-
62	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	201.6	201.8	213.8	215.9	-	-	-	-	-	-
621	Security brokers and dealers	162.2	162.2	169.8	171.8	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,209.0	1,207.0	1,237.7	1,237.8	-	851.2	846.6	867.2	867.3	-
631	Life insurance	525.6	522.3	531.6	532.6	-	315.8	311.1	321.0	323.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 _p	May 1980 _p	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 _p	May 1980 _p
632	INSURANCE CARRIERS—Continued										
	Medical service and health insurance	137.6	137.5	140.3	140.4	-	110.4	110.4	112.7	113.0	-
633	Fire, marine, and casualty insurance	471.5	472.3	493.0	493.8	-	364.0	363.5	375.6	374.9	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	424.9	427.8	448.3	449.5	-	-	-	-	-	-
65	REAL ESTATE	917.6	946.8	946.0	960.9	-	-	-	-	-	-
651	Real estate operators and lessors	425.6	435.8	446.4	451.6	-	-	-	-	-	-
653	Real estate agents and managers	339.6	347.8	351.7	353.0	-	-	-	-	-	-
655	Subdividers and developers	128.3	138.6	124.5	133.1	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC.	26.8	27.1	27.0	26.9	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES	106.2	106.4	113.9	114.3	-	-	-	-	-	-
	SERVICES	16,857	17,039	17,460	17,596	17,738	15,004	15,134	15,538	15,663	15,787
70	HOTELS AND OTHER LODGING PLACES	995.6	1,024.3	1,018.7	1,050.5	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	561.8	987.2	971.7	1,012.6	-	887.5	911.7	893.4	929.7	-
72	PERSONAL SERVICES	912.4	902.1	914.0	910.9	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	355.7	357.3	345.8	344.7	-	316.3	318.3	308.3	307.6	-
723	Beauty shops	281.7	278.8	268.6	267.3	-	260.6	255.4	248.4	247.4	-
726	Funeral service and crematories	71.6	71.5	72.8	73.3	-	-	-	-	-	-
73	BUSINESS SERVICES	2,745.0	2,799.4	2,898.1	2,902.4	-	2,378.5	2,431.7	2,528.6	2,528.1	-
731	Advertising	145.7	146.8	151.9	151.1	-	107.4	108.6	115.2	114.4	-
732	Credit reporting and collection	76.1	76.3	71.9	71.1	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	103.7	103.4	105.8	105.1	-	-	-	-	-	-
734	Services to buildings	464.5	475.9	496.8	498.5	-	417.9	427.9	449.7	452.0	-
736	Personnel supply services	456.5	481.0	494.7	484.6	-	-	-	-	-	-
737	Computer and data processing services	251.7	252.7	271.8	274.9	-	206.9	207.4	225.4	228.6	-
75	AUTO REPAIR, SERVICES, AND GARAGES	572.3	574.1	578.1	574.1	-	491.1	491.6	494.8	492.6	-
753	Automotive repair shops	356.2	357.6	356.0	353.3	-	304.3	304.8	302.3	300.6	-
76	MISCELLANEOUS REPAIR SERVICES	272.4	272.5	294.7	287.8	-	233.1	232.0	253.2	246.8	-
78	MOTION PICTURES	211.9	209.6	205.9	217.4	-	190.0	188.3	180.6	190.5	-
781	Motion picture production and services	75.6	67.9	80.1	80.8	-	66.4	59.5	67.3	66.8	-
783	Motion picture theaters	125.2	130.7	115.1	125.9	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	742.4	777.1	702.2	745.5	-	672.5	707.5	634.9	677.7	-
80	HEALTH SERVICES	4,575.9	4,994.8	5,222.0	5,233.2	-	4,427.4	4,444.6	4,661.8	4,665.9	-
801	Offices of physicians	704.1	709.4	740.8	742.2	-	575.4	579.9	607.6	607.1	-
802	Offices of dentists	312.9	315.6	330.2	330.3	-	273.4	276.4	286.8	287.7	-
805	Nursing and personal care facilities	960.8	966.7	1,025.4	1,031.8	-	864.4	869.4	923.9	928.8	-
806	Hospitals	2,617.4	2,620.7	2,723.3	2,726.3	-	2,389.9	2,391.5	2,496.6	2,500.1	-
81	LEGAL SERVICES	450.7	454.1	478.6	478.9	-	386.7	389.8	410.6	410.9	-
82	EDUCATIONAL SERVICES	1,111.7	1,083.6	1,137.6	1,136.7	-	-	-	-	-	-
821	Elementary and secondary schools	232.9	231.9	251.6	250.5	-	-	-	-	-	-
822	Colleges and universities	763.5	736.6	765.3	765.7	-	-	-	-	-	-
83	SOCIAL SERVICES	1,035.3	1,050.9	1,066.9	1,072.5	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,568.1	1,577.7	1,618.5	1,624.4	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	522.9	921.1	998.4	996.9	-	767.3	764.4	834.4	833.9	-
891	Engineering and architectural services	491.3	499.8	535.7	537.2	-	414.7	422.1	454.5	456.1	-
893	Accounting, auditing, and bookkeeping	299.6	289.3	318.6	315.5	-	243.2	233.4	260.0	257.6	-
	GOVERNMENT	15,825	15,858	16,146	16,338	16,289					
	FEDERAL GOVERNMENT	2,750	2,773	2,869	3,103	3,029					
	Executive, by agency ⁴	2,697.4	2,720.3	2,815.1	3,049.2	-	-	-	-	-	-
	Department of Defense	890.0	886.6	886.6	888.5	-	-	-	-	-	-
	Postal Service	655.0	659.5	655.7	658.2	-	-	-	-	-	-
	Other executive agencies	1,152.4	1,164.2	1,272.8	1,502.5	-	-	-	-	-	-
	Legislative	39.4	39.7	39.7	39.6	-	-	-	-	-	-
	Judicial	13.2	13.1	14.2	14.2	-	-	-	-	-	-

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				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 p	May 1980 p
	FEDERAL GOVERNMENT—Continued										
	Federal Government, by industry										
—	Manufacturing activities	122.2	122.4	122.1	122.3	—	—	—	—	—	—
3731	Shipbuilding and repairing	71.1	71.2	71.7	71.7	—	—	—	—	—	—
—	Transportation and public utilities, except										
—	Postal Service	51.7	52.5	51.3	52.0	—	—	—	—	—	—
—	Services	381.1	385.0	389.8	392.9	—	—	—	—	—	—
806	Federal government hospitals	221.7	223.0	235.6	236.3	—	—	—	—	—	—
	STATE AND LOCAL GOVERNMENT	13,075	13,085	13,277	13,235	13,260	—	—	—	—	—
—	State government	3,504.6	3,468.9	3,580.2	3,576.0	—	—	—	—	—	—
806	State government hospitals	562.5	561.7	566.6	565.3	—	—	—	—	—	—
82	State education	1,460.5	1,419.1	1,498.1	1,495.4	—	—	—	—	—	—
—	General administration including executive, legislative, and judicial functions	904.9	907.8	916.7	918.0	—	—	—	—	—	—
—	Local government	9,570.3	9,615.6	9,696.4	9,659.0	—	—	—	—	—	—
—	Transportation and public utilities	576.9	584.1	596.8	580.9	—	—	—	—	—	—
806	Local government hospitals	522.1	524.2	541.4	541.6	—	—	—	—	—	—
82	Local education	5,399.1	5,402.6	5,457.4	5,428.1	—	—	—	—	—	—
—	General administration including executive, legislative, and judicial functions	2,727.8	2,750.8	2,753.6	2,759.4	—	—	—	—	—	—

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.

* Not available.
p = preliminary.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

(In thousands)

1972 SIC Code	Industry	Feb. 1979	Mar. 1979	Jan. 1980	Feb. 1980	Mar. 1980
	TOTAL	36,152	36,455	37,552	37,730	37,950
	PRIVATE SECTOR	28,724	28,974	29,965	29,987	30,132
	MINING	84	86	96	98	99
10	METAL MINING ..	7.3	7.6	8.5	8.5	8.3
11, 12	COAL MINING	8.9	8.9	10.0	10.4	10.6
13	OIL AND GAS EXTRACTION	59.7	61.3	68.3	69.8	71.2
131, 2	Crude petroleum, natural gas, and natural gas liquids	38.4	38.9	44.2	45.0	45.9
138	Oil and gas field services.....	21.3	22.4	24.1	24.8	25.3
14	NONMETALLIC MINERALS, EXCEPT FUELS	8.1	8.3	9.2	9.1	9.3
142	Crushed and broken stone	2.4	2.5	2.6	2.5	2.6
144	Sand and gravel	2.5	2.6	3.0	3.0	3.1
	CONSTRUCTION	347	350	386	386	391
15	GENERAL BUILDING CONTRACTORS	128.0	127.3	137.6	136.5	138.4
152	Residential building construction.....	76.5	76.2	82.0	81.3	82.9
153	Operative builders	17.2	16.9	16.8	16.5	16.0
154	Nonresidential building construction.....	34.3	34.2	38.8	38.7	39.5
16	HEAVY CONSTRUCTION CONTRACTORS	46.7	47.6	51.6	51.5	51.9
161	Highway and street construction	12.1	13.0	14.8	14.9	15.5
162	Heavy construction, except highway	34.6	34.6	36.8	36.6	36.4
17	SPECIAL TRADE CONTRACTORS	172.7	175.2	196.8	198.0	200.5
171	Plumbing, heating, air conditioning	45.8	46.2	51.5	51.4	52.1
172	Painting, paper hanging, decorating	11.3	11.3	12.9	13.0	13.3
173	Electrical work.....	29.9	30.3	34.0	34.6	34.4
174	Masonry, stonework, and plastering.....	20.8	21.1	24.6	25.0	25.3
175	Carpentering and flooring	14.9	14.6	16.3	16.7	16.8
176	Roofing and sheet metal work	11.8	12.2	14.3	14.6	14.8
	MANUFACTURING	6,349	6,392	6,435	6,445	6,475
24, 25, 32-38	DURABLE GOODS	3,020	3,045	3,101	3,098	3,112
20-23, 26-31	NONDURABLE GOODS	3,329	3,347	3,334	3,347	3,363
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	109.5	111.8	107.9	107.9	108.0
241	Logging camps and logging contractors	4.8	4.9	5.0	4.8	5.0
242	Sawmills and planing mills	21.7	21.9	21.9	21.9	21.5
2421	Sawmills and planing mills, general	14.7	14.9	15.2	15.3	15.1
243	Millwork, plywood, and structural members	44.6	46.0	43.7	43.8	43.4
244	Wooden containers.....	7.2	7.4	6.6	6.8	7.0
245	Wood buildings and mobile homes.....	10.1	10.4	9.5	9.4	9.3
249	Miscellaneous wood products	21.1	21.2	21.2	21.2	21.8
25	FURNITURE AND FIXTURES	146.3	144.4	144.7	143.0	143.1
251	Household furniture.....	109.1	107.9	106.5	105.5	105.4
2511	Wood household furniture.....	45.1	44.9	45.3	44.7	44.7
2512	Upholstered household furniture.....	36.8	36.4	35.4	35.2	34.9
2515	Mattresses and bedspings	8.6	8.6	8.5	8.4	8.4
252	Office furniture	11.1	10.9	11.6	11.3	11.5
253	Public building and related furniture	5.3	5.1	5.2	5.1	5.1
254	Partitions and fixtures	10.3	10.1	10.8	10.9	10.8
259	Miscellaneous furniture and fixtures.....	10.5	10.4	10.2	10.2	10.3
32	STONE, CLAY, AND GLASS PRODUCTS	129.1	131.0	132.8	132.5	133.1
322	Glass and glassware, pressed or blown.....	43.3	43.5	43.4	42.7	43.0
3221	Glass containers	24.8	24.8	23.9	23.4	23.7
3229	Pressed and blown glass, nec	18.5	18.7	19.5	19.3	19.3
323	Products of purchased glass	12.8	13.2	14.6	14.7	15.0
324	Cement, hydraulic	1.6	1.7	1.7	1.7	1.7
325	Structural clay products	6.5	6.5	6.6	6.7	6.6
326	Pottery and related products	16.1	16.2	16.0	16.2	16.2
327	Concrete, gypsum, and plaster products	14.4	14.6	15.5	15.4	15.3
329	Misc. nonmetallic mineral products	31.7	32.2	32.4	32.5	32.4
33	PRIMARY METAL INDUSTRIES	130.8	131.4	131.0	131.1	131.7
331	Blast furnace and basic steel products	41.4	41.7	41.6	41.9	42.1
3312	Blast furnaces and steel mills	32.0	32.4	31.8	31.9	32.0
332	Iron and steel foundries	20.9	21.2	19.5	19.5	19.8

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

(In thousands)

1972 SIC Code	Industry	Feb. 1979	Mar. 1979	Jan. 1980	Feb. 1980	Mar. 1980
PRIMARY METAL INDUSTRIES —Continued						
3321	Gray iron foundries	10.2	10.4	8.6	8.5	8.7
3322	Malleable iron foundries	1.7	1.7	1.3	1.3	1.3
3325	Steel foundries, nec	4.6	4.7	5.0	5.0	5.0
333	Primary nonferrous metals	4.5	4.6	4.9	4.9	5.0
3334	Primary aluminum	1.7	1.8	2.0	2.0	2.1
335	Nonferrous rolling and drawing	42.6	42.4	42.8	42.7	43.2
3351	Copper rolling and drawing	3.8	3.8	3.5	3.5	3.5
3353	Aluminum sheet, plate, and foil	4.3	4.3	4.2	4.3	4.4
3357	Nonferrous wire drawing and insulating	25.2	25.2	26.0	25.7	26.3
336	Nonferrous foundries	16.5	16.5	16.6	16.4	15.9
3361	Aluminum foundries	7.8	7.9	8.5	8.4	8.1
34	FABRICATED METAL PRODUCTS	354.8	357.9	362.1	360.3	361.2
341	Metal cans and shipping containers	13.4	13.4	13.5	13.6	13.5
3411	Metal cans	11.7	11.7	11.6	11.6	11.6
342	Cutlery, hand tools, and hardware	62.5	62.9	62.0	61.4	61.8
3423, 5	Hand and edge tools, and hand saws and blades	17.1	17.1	18.0	17.8	17.7
3429	Hardware, nec	38.1	38.5	36.7	36.3	36.8
343	Plumbing and heating, except electric	19.0	19.0	19.5	19.3	19.1
344	Fabricated structural metal products	69.6	70.2	74.9	74.3	74.1
3441	Fabricated structural metal	7.5	7.5	8.2	8.2	8.1
3442	Metal doors, sash, and trim	21.6	21.6	22.8	22.2	22.2
3443	Fabricated plate work (boiler shops)	15.9	16.1	17.6	17.6	17.7
3444	Sheet metal work	14.9	15.0	15.9	15.8	15.8
345	Screw machine products, bolts, etc.	25.5	26.0	27.5	27.4	27.6
3451	Screw machine products	13.3	13.5	14.4	14.4	14.5
3452	Bolts, nuts, rivets, and washers	12.2	12.5	13.1	13.0	13.1
346	Metal forgings and stampings	60.1	60.3	56.0	55.8	56.4
3462	Iron and steel forgings	4.4	4.5	4.4	4.5	4.6
3465	Automotive stampings	15.3	15.0	11.2	11.2	11.6
3469	Metal stampings, nec	38.3	38.6	38.2	37.9	38.0
347	Metal services, nec	26.1	26.6	26.6	26.8	26.8
3471	Plating and polishing	18.0	18.4	18.1	18.1	18.2
3479	Metal coating and allied services	8.1	8.2	8.5	8.7	8.6
348	Ordinance and accessories, nec	17.0	17.1	17.2	17.0	16.8
349	Misc. fabricated metal products	61.6	62.4	64.9	64.7	65.1
3494	Valves and pipe fittings	22.6	22.9	24.3	24.2	24.5
3496	Misc. fabricated wire products	14.3	14.5	15.2	15.3	15.6
35	MACHINERY, EXCEPT ELECTRICAL	461.6	465.6	498.4	498.8	500.0
351	Engines and turbines	25.5	25.4	26.3	25.5	25.3
3511	Turbines and turbine generator sets	5.9	5.9	5.8	5.9	5.8
3519	Internal combustion engines, nec	19.6	19.5	20.5	19.6	19.5
352	Farm and garden machinery	26.2	26.5	27.2	27.3	26.6
3523	Farm machinery and equipment	20.0	20.3	21.0	21.1	20.5
353	Construction and related machinery	43.2	44.0	51.1	50.9	51.3
3531	Construction machinery	14.1	14.1	17.2	16.8	16.9
3533	Oil field machinery	10.6	10.9	12.8	13.0	13.3
354	Metalworking machinery	56.3	56.8	60.6	61.6	62.0
3541	Machine tools, metal cutting types	9.4	9.7	10.6	10.7	10.8
3544	Special dies, tools, jigs, and fixtures	15.5	15.7	15.0	15.5	15.5
3545	Machine tool accessories	13.8	13.8	15.2	15.3	15.5
355	Special industry machinery	30.2	30.4	32.2	32.2	32.3
3551	Food products machinery	6.3	6.4	6.9	6.9	6.9
3552	Textile machinery	5.1	5.2	5.5	5.5	5.4
3555	Printing trades machinery	7.3	7.3	7.4	7.4	7.5
356	General industrial machinery	61.4	62.0	64.5	64.8	65.0
3561	Pumps and pumping equipment	11.0	11.1	10.9	11.1	11.2
3562	Ball and roller bearings	14.2	14.3	14.7	14.8	14.8
357	Office and computing machines	130.7	132.0	147.0	147.2	147.9
3573	Electronic computing equipment	103.6	104.7	119.2	119.4	120.7
358	Refrigeration and service machinery	39.4	39.8	40.1	40.0	40.1
3585	Refrigeration and heating equipment	26.8	27.0	27.2	27.0	27.2
359	Misc. machinery, except electrical	48.7	48.7	49.4	49.3	49.5
3599	Machinery, except electrical, nec	37.0	36.9	38.0	38.1	38.4
36	ELECTRIC AND ELECTRONIC EQUIPMENT	870.3	877.1	914.8	913.1	918.1
361	Electric distributing equipment	44.1	44.6	44.2	44.3	44.4
3612	Transformers	19.6	19.6	20.4	19.8	19.8
3613	Switchgear and switchboard apparatus	24.5	25.0	24.8	24.5	24.6
362	Electrical industrial apparatus	99.1	99.5	99.0	99.3	99.2
3621	Motors and generators	56.2	56.5	54.8	55.0	54.8
3622	Industrial controls	29.4	29.6	30.0	29.9	30.1
363	Household appliances	58.1	57.8	60.8	60.3	60.9
3632	Household refrigerators and freezers	10.4	10.4	10.7	10.6	10.6
3633	Household laundry equipment	4.7	4.8	5.1	5.1	5.1
3634	Electric housewares and fans	25.3	25.2	26.3	25.8	26.4
364	Electric lighting and wiring equipment	105.0	106.0	106.0	105.1	105.3
3641	Electric lamps	24.4	24.5	24.1	23.6	23.5

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Feb. 1979	Mar. 1979	Jan. 1980	Feb. 1980	Mar. 1980
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	47.5	47.5	50.2	49.6	49.5
365	Radio and TV receiving equipment	58.5	58.2	57.7	56.9	57.3
3651	Radio and TV receiving sets	45.9	45.3	46.1	45.4	45.5
366	Communication equipment	187.6	190.4	207.2	208.9	210.1
3661	Telephone and telegraph apparatus	73.1	75.3	81.7	82.7	83.3
3662	Radio and TV communication equipment	114.5	115.1	125.5	126.2	126.8
367	Electronic components and accessories	259.7	262.1	283.4	283.1	283.4
3671-3	Electronic tubes	16.2	16.3	17.2	17.3	17.2
3674	Semiconductors and related devices	86.9	88.1	98.9	98.2	98.8
3679	Electronic components, nec	107.5	108.2	114.2	114.6	114.3
369	Misc. electrical equipment and supplies	58.2	58.5	55.5	55.2	57.5
3694	Engine electrical equipment	27.7	27.6	22.8	22.5	23.1
TRANSPORTATION EQUIPMENT						
37	Motor vehicles and equipment	318.5	322.2	307.4	306.6	307.2
371	Motor vehicles and car bodies	143.6	145.9	120.2	119.0	119.7
3711	Truck and bus bodies	54.1	56.1	43.6	43.3	45.0
3713	Motor vehicle parts and accessories	5.6	5.7	5.3	5.5	4.6
3714	Aircraft and parts	81.5	81.7	68.8	67.7	67.6
372	Aircraft	105.7	107.2	118.3	117.7	118.8
3721	Aircraft engines and engine parts	61.4	62.4	66.7	65.7	66.5
3724	Aircraft equipment, nec	22.9	23.2	27.1	27.1	27.3
3728	Ship and boat building and repairing	21.4	21.6	24.5	24.9	25.0
373	Ship building and repairing	23.0	23.3	22.1	22.3	21.0
3731	Railroad equipment	13.6	13.9	15.3	15.4	14.6
374	Guided missiles, space vehicles, parts	6.0	6.1	6.7	6.7	6.7
376	Guided missiles and space vehicles	19.9	20.1	22.2	22.5	22.8
3761	Miscellaneous transportation equipment	16.6	16.7	18.3	18.6	18.8
379	Miscellaneous transportation equipment	14.0	13.3	10.7	10.9	11.0
INSTRUMENTS AND RELATED PRODUCTS						
38	Engineering and scientific instruments	289.7	291.0	297.3	299.0	301.4
381	Measuring and controlling devices	21.4	21.7	23.6	23.8	23.8
382	Environmental controls	96.8	97.3	100.3	100.3	101.0
3822	Process control instruments	23.6	23.5	23.2	23.3	23.5
3823	Instruments to measure electricity	16.9	16.9	17.3	17.5	17.6
3825	Optical instruments and lenses	40.8	41.5	43.2	43.1	43.4
383	Medical instruments and supplies	9.9	10.1	11.7	11.8	12.0
384	Surgical and medical instruments	78.9	79.1	81.3	82.1	83.0
3841	Surgical appliances and supplies	36.3	36.5	37.6	38.0	38.4
3842	Ophthalmic goods	34.2	34.2	35.8	36.2	36.6
385	Photographic equipment and supplies	25.5	25.6	26.5	26.9	27.1
386	Watches, clocks, and watchcases	38.0	38.4	38.0	38.0	38.3
387	Watches, clocks, and watchcases	19.2	18.8	15.5	16.1	16.2
MISCELLANEOUS MANUFACTURING INDUSTRIES						
39	Jewelry, silverware, and plated ware	209.2	212.2	204.5	205.7	208.4
391	Musical instruments	29.1	28.9	27.3	26.2	26.5
393	Toys and sporting goods	11.4	11.6	10.3	10.1	9.8
394	Dolls, games, toys, and children's vehicles	58.7	60.5	59.4	61.3	62.3
3942, 4	Sporting and athletic goods, nec	29.5	30.6	29.1	30.2	30.3
3949	Pens, pencils, office and art supplies	29.2	29.9	30.3	31.1	32.0
395	Costume jewelry and notions	22.0	22.5	23.8	24.1	24.2
396	Miscellaneous manufactures	36.9	37.3	33.4	33.5	34.2
399	Miscellaneous manufactures	51.1	51.4	50.3	50.5	51.4
NONDURABLE GOODS						
FOOD AND KINDRED PRODUCTS						
20	Meat products	470.2	477.7	474.5	469.5	470.3
201	Meat packing plants	108.4	109.0	115.8	115.7	115.0
2011	Sausages and other prepared meats	26.8	27.0	29.8	29.6	29.6
2013	Poultry dressing plants	21.0	20.9	20.4	20.2	20.1
2016	Dairy products	53.8	54.3	58.1	58.1	58.0
202	Fluid milk	35.6	36.2	36.2	36.1	36.5
2026	Preserved fruits and vegetables	18.7	19.0	19.0	18.9	19.0
203	Canned specialties	88.5	92.9	79.9	78.3	79.4
2032	Canned fruits and vegetables	9.0	9.3	9.3	8.7	8.6
2033	Frozen fruits and vegetables	23.9	24.0	22.5	22.2	21.8
2037	Grain mill products	23.1	26.5	18.2	18.1	20.0
204	Bakery products	28.5	28.3	28.7	28.8	29.0
205	Bread, cake, and related products	61.7	62.3	61.3	60.2	61.2
2051	Cookies and crackers	41.6	42.0	40.7	40.3	40.8
2052	Sugar and confectionery products	20.1	20.3	20.6	19.9	20.4
206	Fats and oils	41.2	40.9	43.1	42.0	39.9
207	Beverages	5.2	5.2	5.4	5.2	5.1
208	Malt beverages	35.1	35.1	36.4	36.6	37.5
2082	Bottled and canned soft drinks	5.8	5.7	6.5	6.7	7.0
2086	Misc. foods and kindred products	16.6	16.6	17.3	17.4	17.7
209	Misc. foods and kindred products	66.0	67.8	67.7	66.6	66.7
TOBACCO MANUFACTURES						
21	Cigarettes	24.4	23.4	23.5	22.9	21.5
211	Cigarettes	13.7	13.6	13.5	13.4	13.1

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Feb. 1979	Mar. 1979	Jan. 1980	Feb. 1980	Mar. 1980
22	TEXTILE MILL PRODUCTS	421.3	421.7	420.8	423.0	425.2
221	Weaving mills, cotton	64.8	65.2	67.2	66.9	66.7
222	Weaving mills, synthetics	51.1	51.1	51.3	51.3	51.1
223	Weaving and finishing mills, wool	8.3	8.3	8.3	8.2	8.2
224	Narrow fabric mills	15.3	15.4	15.1	15.2	15.2
225	Knitting mills	147.5	148.3	146.4	149.6	151.5
2251	Women's hosiery, except socks	23.2	23.2	23.9	24.0	23.9
2252	Hosiery, nec	25.2	25.2	24.7	24.8	24.9
2253	Knit outerwear mills	51.0	51.6	50.1	52.6	54.3
2254	Knit underwear mills	25.7	25.8	25.2	25.6	25.6
2257	Circular knit fabric mills	12.9	12.9	12.9	13.2	13.1
226	Textile finishing, except wool	23.2	23.1	23.0	23.1	23.1
2261	Finishing plants, cotton	10.4	10.2	10.0	10.0	10.1
2262	Finishing plants, synthetic	6.2	6.4	6.3	6.3	6.0
227	Floor covering mills	25.2	25.2	23.9	23.7	23.8
228	Yarn and thread mills	64.7	64.0	65.0	64.5	65.4
2281	Yarn mills, except wool	41.3	40.6	41.8	41.2	42.0
2282	Throwing and winding mills	12.4	12.2	12.0	12.0	12.1
229	Miscellaneous textile goods	21.2	21.1	20.6	20.5	20.2
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,071.9	1,075.9	1,043.0	1,061.2	1,070.1
231	Men's and boys' suits and coats	69.0	66.9	64.3	65.0	63.0
232	Men's and boys' furnishings	306.1	306.6	310.6	315.5	317.5
2321	Men's and boys' shirts and nightwear	92.7	92.0	90.8	91.9	92.3
2327	Men's and boys' separate trousers	65.3	65.7	66.2	67.1	66.9
2328	Men's and boys' work clothing	82.7	82.7	89.4	89.9	90.2
233	Women's and misses' outerwear	381.7	386.6	364.3	374.1	381.5
2331	Women's and misses' blouses and waists	55.2	55.2	50.7	51.7	52.4
2336	Women's and misses' dresses	147.4	151.3	147.6	150.4	154.3
2337	Women's and misses' suits and coats	52.8	54.3	44.9	47.4	48.5
2339	Women's and misses' outerwear, nec	126.3	125.8	121.1	124.6	126.3
234	Women's and children's undergarments	78.0	77.8	76.5	77.1	77.1
2341	Women's and children's underwear	62.2	62.0	61.0	61.4	61.7
2342	Brasieres and allied garments	15.8	15.8	15.5	15.7	15.4
236	Children's outerwear	58.3	58.1	56.1	57.6	56.4
2361	Children's dresses and blouses	23.2	23.0	21.8	22.3	21.3
238	Misc. apparel and accessories	44.7	45.3	41.4	41.9	43.2
239	Misc. fabricated textile products	120.5	121.1	117.2	117.2	118.4
2391	Curtains and draperies	23.5	23.5	24.3	24.0	23.9
2392	House furnishings, nec	30.7	31.4	33.4	32.9	32.9
2396	Automotive and apparel trimmings	19.1	19.4	16.0	16.5	17.3
26	PAPER AND ALLIED PRODUCTS	159.7	162.0	162.1	161.8	162.6
261, 2,6	Paper and pulp mills	24.6	25.1	26.7	26.6	26.5
262	Paper mills, except building paper	21.9	22.5	23.5	23.4	23.5
263	Paperboard mills	6.3	6.3	6.6	6.6	6.6
264	Misc. converted paper products	76.9	78.5	76.8	76.8	78.0
265	Paperboard containers and boxes	51.9	52.1	52.0	51.8	51.5
27	PRINTING AND PUBLISHING	474.5	476.4	503.0	504.9	507.5
271	Newspapers	148.2	148.7	160.3	160.7	161.3
272	Periodicals	49.9	49.9	52.6	51.9	51.3
273	Books	55.0	55.6	57.4	57.7	58.0
274	Miscellaneous publishing	26.3	26.0	26.6	26.8	26.9
275	Commercial printing	125.9	126.9	131.9	133.6	134.7
2751	Commercial printing, letterpress	56.4	56.6	57.1	58.6	58.5
2752	Commercial printing, lithographic	64.1	64.8	68.8	68.9	69.9
276	Manifold business forms	15.0	14.9	16.2	16.0	16.1
278	Blankbooks and bookbinding	33.0	33.0	35.2	35.5	35.7
279	Printing trade services	8.4	8.5	9.6	9.7	10.0
28	CHEMICALS AND ALLIED PRODUCTS	264.0	265.5	274.4	276.2	277.1
281	Industrial inorganic chemicals	23.7	23.7	25.7	25.7	25.8
2819	Industrial inorganic chemicals, nec	16.0	16.1	16.9	16.9	16.8
282	Plastics materials and synthetics	45.8	45.7	46.8	46.7	46.9
2821	Plastics materials and resins	10.6	10.5	11.2	11.2	11.4
2824	Organic fibers, noncellulosic	26.6	26.6	26.2	25.9	25.8
283	Drugs	76.5	76.6	80.3	80.9	81.3
2834	Pharmaceutical preparations	65.3	65.4	68.6	69.1	69.4
284	Soap, cleaners, and toilet goods	53.3	54.3	54.4	55.3	54.9
2841	Soap and other detergents	9.1	9.1	8.7	8.6	8.6
2844	Toilet preparations	31.0	31.9	32.5	33.5	33.0
285	Paints and allied products	12.4	12.6	12.9	13.0	13.1
286	Industrial organic chemicals	23.9	24.0	24.5	24.4	24.7
2861,9	Gum, wood, and industrial organic chemicals, nec	19.3	19.3	19.5	19.4	19.7
287	Agricultural chemicals	9.5	9.6	10.2	10.3	10.7
289	Miscellaneous chemical products	18.9	19.0	19.6	19.9	19.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Feb. 1979	Mar. 1979	Jan. 1980	Feb. 1980	Mar. 1980
29	PETROLEUM AND COAL PRODUCTS	24.8	25.2	28.2	23.7	23.8
291	Petroleum refining	19.8	20.3	23.1	18.3	18.5
30	RUBBER AND MISC. PLASTICS PRODUCTS	270.6	271.0	261.5	259.5	259.8
301	Tires and inner tubes	12.4	12.4	11.2	11.1	10.8
302	Rubber and plastics footwear	14.3	14.0	14.1	13.7	14.1
303,4	Reclaimed rubber, and rubber and plastics hose and belting	6.1	6.1	5.6	5.6	5.3
306	Fabricated rubber products, nec	41.1	41.0	37.9	37.1	37.2
307	Miscellaneous plastics products	192.7	197.5	192.5	192.0	192.4
31	LEATHER AND LEATHER PRODUCTS	147.9	148.5	142.7	144.2	144.7
311	Leather tanning and finishing	3.1	3.2	2.7	2.7	2.8
314	Footwear, except rubber	99.2	98.9	96.5	97.3	97.9
3143	Men's footwear, except athletic	37.7	37.7	35.6	35.2	35.4
3144	Women's footwear, except athletic	41.4	41.0	42.5	42.2	41.9
316	Luggage	9.1	9.4	8.2	8.5	8.2
317	Handbags and personal leather goods	22.7	23.2	21.8	22.6	22.6
-	TRANSPORTATION AND PUBLIC UTILITIES	1,200	1,207	1,264	1,269	1,273
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	59.4	59.7	64.6	65.8	66.2
411	Local and suburban transportation	10.3	10.3	12.1	12.4	12.5
412	Taxicabs	7.7	7.5	7.5	7.5	7.7
413	Intercity highway transportation	4.4	4.4	5.0	5.0	5.0
415	School buses	34.6	35.0	37.7	38.3	38.3
42	TRUCKING AND WAREHOUSING	148.2	150.5	158.0	156.6	156.2
421,3	Trucking and trucking terminals	132.2	134.6	140.9	139.7	139.6
422	Public warehousing	16.0	15.9	17.1	16.9	16.6
44	WATER TRANSPORTATION	18.1	18.2	19.6	19.3	19.2
45	TRANSPORTATION BY AIR	132.2	133.6	139.7	139.3	139.4
451,2	Air transportation	125.1	126.5	132.1	131.4	131.5
46	PIPE LINES, EXCEPT NATURAL GAS	2.0	2.0	2.1	2.1	2.3
47	TRANSPORTATION SERVICES	80.9	81.9	90.9	90.9	90.6
48	COMMUNICATION	601.8	602.8	618.4	622.9	624.5
481	Telephone communication	528.8	529.1	537.3	540.8	541.6
483	Radio and television broadcasting	57.0	57.6	63.1	63.5	63.9
49	ELECTRIC, GAS, AND SANITARY SERVICES	136.2	137.1	147.3	148.5	150.1
491	Electric services	60.9	61.4	67.4	68.0	68.7
492	Gas production and distribution	34.1	34.2	35.0	35.2	35.8
493	Combination utility services	32.0	32.1	34.5	35.0	35.0
495	Sanitary services	4.5	4.6	5.4	5.3	5.5
-	WHOLESALE AND RETAIL TRADE	8,300	8,367	8,791	8,661	8,688
50,51	WHOLESALE TRADE	1,278	1,288	1,337	1,342	1,352
50	WHOLESALE TRADE-DURABLE GOODS	701	707	743	744	752
501	Motor vehicles and automotive equipment	92.0	92.3	93.7	92.2	91.8
502	Furniture and home furnishings	37.1	37.7	40.0	40.8	41.0
503	Lumber and construction materials	30.5	30.5	32.8	33.0	33.1
504	Sporting goods, toys, and hobby goods	22.9	22.2	22.2	21.7	22.0
505	Metals and minerals, except petroleum	27.0	27.3	29.0	28.8	29.5
506	Electrical goods	113.3	114.1	121.2	121.0	122.5
507	Hardware, plumbing, and heating equipment	64.5	66.1	69.8	69.7	69.8
508	Machinery, equipment, and supplies	265.3	268.7	285.7	287.7	292.7
509	Miscellaneous durable goods	48.8	48.5	48.9	49.5	49.4
51	WHOLESALE TRADE-NONDURABLE GOODS	577	581	594	598	600
511	Paper and paper products	39.4	39.9	41.7	41.8	42.4
512	Drugs, proprietaries, and sundries	62.0	62.2	67.9	67.3	67.0
513	Apparel, piece goods, and notions	79.6	80.6	82.9	84.0	84.7
514	Groceries and related products	141.7	145.4	141.5	141.9	140.8
516	Chemicals and allied products	29.3	29.7	30.4	30.7	31.2
517	Petroleum and petroleum products	47.8	47.7	50.4	51.5	51.8
518	Beer, wine, and distilled beverages	20.2	20.1	21.6	21.5	21.6
519	Miscellaneous nondurable goods	115.2	115.5	121.7	123.1	124.5

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Feb. 1979	Mar. 1979	Jan. 1980	Feb. 1980	Mar. 1980
52-59	RETAIL TRADE	7,022	7,079	7,454	7,319	7,336
52	BUILDING MATERIALS AND GARDEN SUPPLIES	149.9	152.2	156.7	158.1	160.0
521	Lumber and other building materials	59.1	59.7	64.3	64.0	64.1
525	Hardware stores	50.4	50.3	55.4	54.8	54.7
53	GENERAL MERCHANDISE STORES	1,491.3	1,476.0	1,574.2	1,472.6	1,456.7
531	Department stores	1,192.8	1,176.2	1,259.6	1,174.0	1,160.3
533	Variety stores	211.5	212.3	214.8	202.0	200.3
539	Misc. general merchandise stores	87.0	87.5	99.6	96.6	98.1
54	FOOD STORES	923.2	925.3	979.0	983.2	981.0
541	Grocery stores	771.8	778.4	828.4	828.1	829.6
542	Meat markets and freezer provisioners	16.1	16.0	18.2	17.8	17.2
546	Retail bakeries	72.3	74.0	75.9	76.4	77.3
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	308.0	307.7	316.9	315.2	315.2
551,2	New and used car dealers	126.1	126.6	123.3	123.2	122.0
553	Auto and home supply stores	45.0	44.4	47.7	45.5	44.2
554	Gasoline service stations	121.9	121.0	128.5	128.7	130.6
56	APPAREL AND ACCESSORY STORES	616.1	623.8	669.5	641.6	643.1
561	Men's and boys' clothing and furnishings	59.1	58.9	66.1	61.0	60.5
562	Women's ready-to-wear stores	302.9	308.9	320.3	308.8	311.5
565	Family clothing stores	121.0	121.8	139.6	133.3	133.8
566	Shoe stores	67.8	70.2	75.0	72.9	72.2
57	FURNITURE AND HOME FURNISHING STORES	193.4	195.7	205.3	203.4	203.3
571	Furniture and home furnishings	127.1	127.9	131.1	130.3	130.9
572	Household appliance stores	24.7	24.8	24.5	23.8	23.8
573	Radio, television, and music stores	41.6	43.0	49.7	49.3	48.6
58	EATING AND DRINKING PLACES	2,369.4	2,433.9	2,529.6	2,534.6	2,571.5
59	MISCELLANEOUS RETAIL	970.5	964.6	1,012.9	1,010.4	1,003.1
591	Drug stores and proprietary stores	297.4	297.6	322.7	317.0	318.4
592	Liquor stores	30.4	30.6	34.5	33.5	32.9
594	Miscellaneous shopping goods stores	327.7	328.4	351.2	348.8	350.1
596	Nonstore retailers	152.0	149.7	148.5	145.8	144.6
598	Fuel and ice dealers	23.3	23.5	23.4	23.3	23.1
599	Retail stores, nec	118.8	113.8	112.6	121.9	113.8
	FINANCE, INSURANCE, AND REAL ESTATE	2,812	2,828	2,966	2,980	2,992
60	BANKING	1,020.1	1,024.0	1,076.4	1,080.9	1,083.9
602	Commercial and stock savings banks	938.5	942.0	990.6	994.8	997.6
61	CREDIT AGENCIES OTHER THAN BANKS	348.7	352.1	369.0	370.8	370.2
612	Savings and loan associations	167.1	168.4	180.0	179.7	180.1
614	Personal credit institutions	118.4	120.2	125.5	127.4	127.1
62	SECURITY, COMMODITY BROKERS, AND SERVICES	77.2	77.8	84.9	84.2	85.4
621	Security brokers and dealers	61.1	61.7	67.4	66.3	67.5
63	INSURANCE CARRIERS	718.4	722.4	743.6	748.9	752.5
631	Life insurance	273.9	274.7	283.1	286.3	288.9
632	Medical service and health insurance	100.1	100.1	101.9	102.2	102.6
633	Fire, marine, and casualty insurance	294.1	297.0	308.1	310.2	311.5
64	INSURANCE AGENTS, BROKERS, AND SERVICE	255.4	258.2	274.6	275.3	276.5
65	REAL ESTATE	322.2	323.6	342.5	343.9	345.7
651	Real estate operators and lessors	128.7	128.3	136.0	137.7	137.2
653	Real estate agents and managers	146.1	148.2	157.1	157.3	159.2
655	Subdividers and developers	30.5	30.5	32.3	32.5	33.1
66	COMBINED REAL ESTATE, INSURANCE, ETC	16.9	16.7	17.6	17.5	17.6
67	HOLDING AND OTHER INVESTMENT OFFICES	53.0	53.1	57.4	58.0	59.7
-	SERVICES	9,632	9,744	10,027	10,148	10,214
70	HOTELS AND OTHER LODGING PLACES	489.3	509.2	524.1	529.1	543.4
701	Hotels, motels, and tourist courts	471.0	491.1	504.0	508.3	523.4

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Feb. 1979	Mar. 1979	Jan. 1980	Feb. 1980	Mar. 1980
72	PERSONAL SERVICES	610.8	619.3	613.9	621.7	623.0
721	Laundry, cleaning, and garment services	220.2	222.0	219.9	217.7	217.1
723	Beauty shops	248.8	253.5	243.0	239.3	241.6
726	Funeral service and crematories	18.3	18.6	19.5	19.4	19.7
73	BUSINESS SERVICES	1,155.9	1,172.1	1,237.5	1,236.0	1,237.9
731	Advertising	67.0	67.2	70.8	70.7	71.2
732	Credit reporting and collection	56.9	57.3	52.4	52.6	52.3
733	Mailing, reproduction, stenographic	50.5	51.8	52.9	52.4	52.0
734	Services to buildings	163.3	163.7	181.6	181.3	183.1
736	Personnel supply services	264.8	274.2	291.8	291.3	294.3
737	Computer and data processing services	116.8	117.5	129.1	130.6	127.6
75	AUTO REPAIR, SERVICES, AND GARAGES	92.4	94.5	95.3	95.5	96.8
753	Automotive repair shops	41.7	42.6	42.0	41.6	42.5
76	MISCELLANEOUS REPAIR SERVICES	53.4	55.1	60.4	61.1	62.5
78	MOTION PICTURES	74.8	76.9	75.0	73.5	75.7
781	Motion picture production and services	22.5	23.2	23.1	23.0	22.7
783	Motion picture theaters	46.4	47.8	46.1	44.6	47.1
79	AMUSEMENT AND RECREATION SERVICES	250.5	260.3	240.2	246.9	263.2
80	HEALTH SERVICES	4,015.0	4,033.3	4,219.9	4,244.5	4,255.0
801	Offices of physicians	547.8	549.9	573.9	575.3	577.5
802	Offices of dentists	263.7	265.7	281.9	283.4	282.6
806	Nursing and personal care facilities	844.2	849.8	908.5	910.6	914.6
806	Hospitals	2,102.0	2,108.8	2,181.5	2,196.4	2,199.6
81	LEGAL SERVICES	321.6	322.8	337.7	340.0	343.5
82	EDUCATIONAL SERVICES	561.8	565.6	541.4	576.7	579.7
821	Elementary and secondary schools	148.5	148.4	153.5	152.7	154.5
822	Colleges and universities	349.4	352.4	320.6	355.6	356.9
83	SOCIAL SERVICES	755.1	766.4	786.2	798.8	805.8
89	MISCELLANEOUS SERVICES	280.8	285.6	306.1	316.3	320.9
891	Engineering and architectural services	95.3	96.5	108.3	110.3	111.0
893	Accounting, auditing, and bookkeeping	130.4	133.3	137.1	143.1	146.1
	GOVERNMENT	7,428	7,481	7,567	7,743	7,818
	FEDERAL GOVERNMENT	859	859	880	898	926
	STATE AND LOCAL GOVERNMENT	6,569	6,622	6,707	6,845	6,892
	State government	1,552.7	1,564.2	1,581.7	1,634.3	1,644.9
	Hospitals	327.2	330.5	351.4	358.0	358.4
	State education	655.4	660.0	655.7	702.9	708.7
	General administration including executive, legislative, and judicial functions	384.1	388.5	381.1	379.8	383.2
	Local government	5,016.1	5,058.2	5,125.1	5,210.5	5,247.4
	Transportation and public utilities	84.6	85.6	91.9	92.6	93.2
	Hospitals	404.1	406.0	435.0	437.8	439.6
	Local education	3,463.4	3,493.3	3,482.3	3,546.7	3,567.5
	General administration including executive, legislative, and judicial functions	878.4	884.7	915.3	928.1	941.4

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	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. ^P	May ^P
TOTAL	89,398	89,626	89,713	89,762	89,803	89,982	90,100	90,241	90,652	90,845	90,819	90,508	90,328
GOODS-PRODUCING	26,651	26,674	26,723	26,599	26,593	26,572	26,533	26,655	26,783	26,732	26,600	26,410	25,963
MINING	944	949	956	968	973	979	983	991	1,000	1,009	1,011	1,016	1,034
CONSTRUCTION	4,646	4,662	4,688	4,674	4,671	4,694	4,714	4,783	4,893	4,831	4,700	4,591	4,601
MANUFACTURING	21,059	21,063	21,079	20,957	20,949	20,899	20,836	20,881	20,890	20,892	20,889	20,603	20,328
DURABLE GOODS	12,739	12,760	12,786	12,714	12,737	12,650	12,587	12,615	12,601	12,655	12,653	12,396	12,153
Lumber and wood products	762	757	753	752	758	760	751	740	737	740	730	682	658
Furniture and fixtures	487	485	488	484	480	482	483	483	484	481	482	477	465
Stone, clay, and glass products	715	715	711	710	708	709	704	706	708	709	703	687	666
Primary metal industries	1,254	1,257	1,256	1,245	1,236	1,226	1,223	1,208	1,208	1,210	1,205	1,189	1,157
Fabricated metal products	1,730	1,737	1,730	1,714	1,716	1,723	1,726	1,725	1,712	1,724	1,723	1,687	1,626
Machinery, except electrical	2,471	2,484	2,500	2,492	2,496	2,455	2,438	2,444	2,512	2,511	2,513	2,503	2,507
Electric and electronic equipment	2,106	2,124	2,131	2,092	2,117	2,125	2,125	2,140	2,149	2,147	2,158	2,149	2,122
Transportation equipment	2,077	2,057	2,073	2,079	2,086	2,025	1,994	2,015	1,938	1,980	1,982	1,869	1,810
Instruments and related products	688	693	694	695	692	696	694	696	700	703	707	706	706
Miscellaneous manufacturing ind.	445	451	450	451	448	449	449	452	453	450	450	447	436
NONDURABLE GOODS	8,320	8,303	8,293	8,243	8,212	8,249	8,249	8,266	8,289	8,237	8,236	8,207	8,175
Food and kindred products	1,725	1,720	1,707	1,696	1,651	1,707	1,710	1,715	1,707	1,705	1,701	1,685	1,688
Tobacco manufactures	70	69	68	64	65	65	60	62	64	65	65	66	67
Textile mill products	893	892	892	886	884	887	889	893	891	891	893	889	877
Apparel and other textile products	1,324	1,312	1,324	1,302	1,294	1,299	1,292	1,297	1,309	1,312	1,314	1,306	1,297
Paper and allied products	714	715	718	717	714	715	714	713	718	717	718	714	704
Printing and publishing	1,236	1,242	1,250	1,247	1,245	1,252	1,262	1,263	1,273	1,278	1,278	1,276	1,271
Chemicals and allied products	1,114	1,119	1,116	1,111	1,110	1,113	1,114	1,119	1,123	1,121	1,123	1,126	1,125
Petroleum and coal products	213	212	212	213	215	217	217	217	219	163	160	170	205
Rubber and misc. plastic products	784	775	777	764	751	751	740	745	745	744	744	737	703
Leather and leather products	247	247	229	243	243	243	242	242	240	241	240	238	238
SERVICE-PRODUCING	62,747	62,952	62,990	63,163	63,210	63,410	63,567	63,566	63,869	64,113	64,219	64,298	64,365
TRANSPORTATION AND PUBLIC UTILITIES	5,130	5,190	5,169	5,194	5,180	5,218	5,229	5,223	5,212	5,210	5,213	5,189	5,187
WHOLESALE AND RETAIL TRADE	20,129	20,116	20,122	20,126	20,169	20,243	20,308	20,254	20,428	20,521	20,499	20,349	20,371
WHOLESALE TRADE	5,156	5,180	5,182	5,185	5,190	5,209	5,235	5,218	5,248	5,274	5,278	5,238	5,227
RETAIL TRADE	14,973	14,936	14,940	14,941	14,979	15,034	15,073	15,036	15,180	15,247	15,221	15,111	15,144
FINANCE, INSURANCE, AND REAL ESTATE	4,936	4,958	4,972	5,003	4,957	5,018	5,039	5,056	5,081	5,092	5,107	5,107	5,131
SERVICES	16,954	17,051	17,092	17,141	17,191	17,257	17,298	17,357	17,442	17,522	17,548	17,578	17,650
GOVERNMENT	15,598	15,637	15,635	15,699	15,673	15,674	15,693	15,696	15,706	15,768	15,852	16,075	16,026
FEDERAL	2,770	2,788	2,785	2,813	2,762	2,770	2,771	2,771	2,791	2,823	2,886	3,112	3,026
STATE AND LOCAL	12,828	12,849	12,850	12,886	12,911	12,904	12,922	12,925	12,915	12,945	12,966	12,963	13,000

p=preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1979											1980		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
TOTAL	36,517	36,669	36,789	36,916	37,102	37,262	37,144	37,324	37,512	37,539	37,789	37,968	37,996	
GOODS-PRODUCING	6,899	6,920	6,939	6,960	6,971	6,907	6,906	6,942	6,948	6,985	7,019	7,024	7,036	
MINING	87	87	89	91	92	94	94	94	95	97	97	99	100	
CONSTRUCTION	357	362	362	374	379	380	383	385	389	390	393	393	399	
MANUFACTURING	6,455	6,471	6,483	6,495	6,500	6,433	6,429	6,463	6,464	6,498	6,529	6,532	6,537	
DURABLE GOODS	3,065	3,082	3,087	3,102	3,109	3,068	3,082	3,054	3,092	3,116	3,125	3,130	3,138	
Lumber and wood products	114	114	114	113	113	113	114	115	113	112	111	111	110	
Furnitures and fixtures	145	145	144	145	146	145	143	142	142	144	144	143	144	
Stone, clay, and glass products	134	134	134	135	134	133	134	134	134	136	135	135	136	
Primary metal industries	131	134	134	138	137	135	134	134	133	132	131	131	132	
Fabricated metal products	361	361	362	363	363	360	359	362	363	364	365	365	364	
Machinery, except electrical	464	469	473	473	479	478	482	482	482	485	496	497	498	
Electric and electronic equipment	884	887	892	902	907	888	898	903	904	917	919	920	926	
Transportation equipment	326	326	326	323	321	307	312	314	313	315	309	314	311	
Instruments and related products	293	294	295	296	256	296	295	296	295	296	298	300	303	
Miscellaneous manufacturing ind.	217	218	213	214	213	213	211	212	213	215	217	214	214	
NONDURABLE GOODS	3,386	3,389	3,396	3,393	3,391	3,365	3,347	3,369	3,372	3,382	3,404	3,402	3,359	
Food and kindred products	509	508	511	511	502	495	488	501	503	507	507	506	501	
Tobacco manufactures	25	26	26	25	24	23	24	24	21	22	23	23	23	
Textile mill products	423	422	422	424	422	422	421	421	424	426	425	426	427	
Apparel and other textile products	1,071	1,072	1,072	1,062	1,073	1,056	1,049	1,053	1,048	1,052	1,064	1,064	1,065	
Paper and allied products	165	165	164	164	165	164	164	164	163	162	164	165	165	
Printing and publishing	477	479	479	482	487	488	491	494	498	500	505	507	508	
Chemicals and allied products	268	269	271	273	274	271	271	273	276	277	278	280	279	
Petroleum and coal products	25	26	26	27	27	27	28	28	28	28	29	24	24	
Rubber and misc. plastics products	273	273	275	275	279	272	263	264	264	262	263	261	261	
Leather and leather products	150	149	150	150	138	147	148	147	147	146	146	146	146	
SERVICE-PRODUCING	29,618	29,749	29,850	29,956	30,131	30,355	30,238	30,382	30,564	30,554	30,770	30,944	30,960	
TRANSPORTATION AND PUBLIC UTILITIES	1,209	1,202	1,214	1,233	1,236	1,243	1,251	1,252	1,267	1,265	1,264	1,274	1,276	
WHOLESALE AND RETAIL TRADE	8,595	8,627	8,673	8,670	8,664	8,695	8,713	8,744	8,783	8,730	8,871	8,923	8,909	
WHOLESALE TRADE	1,297	1,297	1,307	1,310	1,317	1,317	1,318	1,322	1,335	1,334	1,342	1,354	1,362	
RETAIL TRADE	7,298	7,330	7,366	7,360	7,367	7,378	7,395	7,422	7,448	7,396	7,529	7,569	7,547	
FINANCE, INSURANCE, AND REAL ESTATE	2,837	2,850	2,862	2,860	2,892	2,912	2,916	2,935	2,948	2,957	2,984	2,995	3,001	
SERVICES	9,754	9,798	9,846	9,898	9,939	10,003	10,015	10,065	10,091	10,114	10,169	10,230	10,224	
GOVERNMENT	7,223	7,272	7,255	7,275	7,380	7,502	7,343	7,366	7,475	7,488	7,482	7,522	7,550	
FEDERAL	862	861	866	875	874	891	878	882	880	884	887	902	929	
STATE AND LOCAL	6,361	6,411	6,389	6,400	6,506	6,611	6,465	6,504	6,595	6,604	6,595	6,620	6,621	

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

ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

(In thousands)

Industry division and group	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. ^P	May ^P
TOTAL PRIVATE	60,326	60,495	60,544	60,475	60,528	60,668	60,746	60,841	61,142	61,271	61,108	60,581	60,408
GOODS-PRODUCING	19,542	19,537	19,560	19,415	19,416	19,371	19,314	19,421	19,507	19,444	19,271	18,880	18,608
MINING	708	709	713	725	730	733	733	739	746	752	752	760	770
CONSTRUCTION	3,722	3,732	3,757	3,734	3,729	3,744	3,752	3,817	3,913	3,866	3,704	3,598	3,612
MANUFACTURING	15,112	15,096	15,090	14,956	14,957	14,894	14,829	14,868	14,848	14,826	14,615	14,522	14,226
DURABLE GOODS	9,119	9,123	9,124	9,044	9,066	8,972	8,908	8,931	8,894	8,926	8,924	8,658	8,353
Lumber and wood products	645	646	643	642	646	645	639	627	623	625	616	571	547
Furniture and fixtures	397	395	398	394	392	394	394	394	395	392	392	388	375
Stone, clay, and glass products	564	565	560	558	557	557	553	554	556	556	551	534	515
Primary metal industries	987	991	988	976	970	960	954	943	942	943	938	921	885
Fabricated metal products	1,310	1,316	1,309	1,291	1,295	1,298	1,300	1,298	1,286	1,296	1,296	1,260	1,200
Machinery, except electrical	1,628	1,632	1,641	1,628	1,637	1,601	1,591	1,590	1,642	1,637	1,635	1,617	1,618
Electric and electronic equipment	1,384	1,393	1,395	1,359	1,375	1,380	1,376	1,388	1,397	1,391	1,398	1,386	1,351
Transportation equipment	1,438	1,417	1,426	1,431	1,433	1,371	1,342	1,371	1,286	1,320	1,326	1,214	1,151
Instruments and related products	421	424	422	421	420	421	418	421	422	424	429	427	422
Miscellaneous manufacturing ind.	341	344	342	344	341	341	341	345	345	342	343	340	329
NONDURABLE GOODS	5,993	5,973	5,966	5,912	5,891	5,922	5,921	5,934	5,954	5,900	5,891	5,864	5,833
Food and kindred products	1,184	1,181	1,170	1,157	1,153	1,169	1,171	1,160	1,175	1,171	1,164	1,153	1,154
Tobacco manufactures	56	55	54	50	52	52	46	48	50	51	51	52	52
Textile mill products	778	777	778	771	769	772	776	778	779	778	780	776	763
Apparel and other textile products	1,133	1,122	1,130	1,110	1,104	1,109	1,102	1,106	1,117	1,120	1,122	1,112	1,106
Paper and allied products	541	541	547	545	543	543	542	542	544	545	546	541	533
Printing and publishing	700	701	707	705	703	708	715	713	720	721	720	716	710
Chemicals and allied products	636	640	639	634	635	637	638	641	643	640	639	641	642
Petroleum and coal products	139	139	138	139	140	140	141	142	142	92	88	101	132
Rubber and misc. plastics products	616	607	609	595	585	585	585	580	581	579	579	571	539
Leather and leather products	210	210	194	206	207	207	205	204	203	203	202	201	202
SERVICE-PRODUCING	40,784	40,958	40,984	41,060	41,112	41,297	41,432	41,420	41,635	41,827	41,837	41,701	41,800
TRANSPORTATION AND PUBLIC UTILITIES	4,293	4,351	4,333	4,348	4,337	4,370	4,380	4,368	4,350	4,355	4,358	4,335	4,342
WHOLESALE AND RETAIL TRADE	17,691	17,689	17,681	17,669	17,721	17,785	17,848	17,802	17,947	18,033	17,994	17,859	17,875
WHOLESALE TRADE	4,237	4,257	4,255	4,256	4,259	4,279	4,295	4,289	4,305	4,325	4,329	4,288	4,276
RETAIL TRADE	13,454	13,432	13,426	13,433	13,462	13,510	13,553	13,513	13,642	13,708	13,665	13,571	13,599
FINANCE, INSURANCE, AND REAL ESTATE	3,756	3,777	3,788	3,804	3,794	3,804	3,814	3,824	3,840	3,858	3,869	3,871	3,850
SERVICES	15,044	15,141	15,182	15,219	15,260	15,334	15,390	15,426	15,498	15,581	15,616	15,632	15,653

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
1977				
January.....	73.0	80.2	86.3	80.5
February.....	67.2	84.3	84.6	81.4
March.....	72.4	82.6	84.0	82.8
April.....	71.5	81.7	82.3	84.6
May.....	70.3	76.5	79.1	85.2
June.....	65.1	72.7	77.6	86.6
July.....	70.3	70.3	75.3	84.9
August.....	57.8	70.9	76.7	83.1
September.....	67.2	67.7	79.7	83.1
October.....	64.2	76.2	80.5	82.8
November.....	73.3	79.7	84.0	81.1
December.....	75.3	79.4	82.3	82.0
1978				
January.....	68.3	80.2	83.1	81.4
February.....	69.2	75.6	79.1	83.1
March.....	69.5	77.3	77.6	81.1
April.....	68.0	69.8	73.5	82.0
May.....	57.8	67.2	72.7	81.7
June.....	66.6	66.6	71.2	82.3
July.....	64.5	69.5	73.0	81.4
August.....	60.5	67.2	77.3	78.2
September.....	62.5	71.2	79.7	77.9
October.....	73.0	78.2	82.3	73.5
November.....	75.9	81.1	82.3	76.2
December.....	74.4	82.3	80.5	71.8
1979				
January.....	70.3	76.5	74.1	71.8
February.....	65.1	72.1	67.4	70.6
March.....	60.5	57.8	61.9	63.7
April.....	44.8	55.2	58.1	64.0
May.....	54.7	51.5	50.3	61.9
June.....	57.0	58.4	46.8	58.1
July.....	61.6	56.7	56.1	57.0
August.....	48.8	52.0	55.8	54.4
September.....	46.8	52.9	57.6	51.5
October.....	69.8	61.0	61.6	47.4p
November.....	59.9	66.6	65.7	41.0p
December.....	59.0	64.5	63.1	
1980				
January.....	63.4	62.5	45.9p	
February.....	55.8	55.8	38.1p	
March.....	46.5	34.3p		
April.....	29.7p	31.1p		
May.....	34.0p			
June.....				
July.....				
August.....				
September.....				
October.....				
November.....				
December.....				

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

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
1 ALABAMA	1,358.2	1,362.8	1,364.2	16.7	17.1	17.2	74.3	66.3	68.2	375.8	370.0	368.7
2 Birmingham	356.6	360.7	362.5	9.9	10.0	10.1	21.8	20.8	21.4	70.6	69.4	68.7
3 Huntsville	119.7	119.5	119.8	(1)	(1)	(1)	4.5	4.1	4.2	36.5	36.1	35.8
4 Mobile	148.1	148.1	149.0	(1)	(1)	(1)	10.1	10.5	10.3	30.5	29.9	29.9
5 Montgomery	106.6	108.9	108.4	(1)	(1)	(1)	8.1	9.1	8.7	15.8	16.8	16.8
6 Tuscaloosa	51.0	50.3	50.3	1.4	1.7	1.7	2.9	2.5	2.4	9.3	8.6	8.6
7 ALASKA	163.1	163.6	(*)	5.7	6.2	(*)	8.5	7.9	(*)	10.7	9.8	(*)
8 ARIZONA	973.0	1,008.4	1,008.7	20.8	23.5	23.7	84.1	76.6	74.4	138.9	151.8	151.5
9 Phoenix	609.4	632.7	632.4	.2	.3	.3	55.4	50.3	49.4	103.2	111.9	111.4
10 Tucson	175.0	183.7	183.4	6.2	7.4	7.4	14.9	14.6	13.6	17.6	20.2	20.4
11 ARKANSAS	749.8	754.0	754.2	4.7	4.8	4.8	40.3	36.6	37.2	216.9	215.5	211.9
12 Fayetteville—Springdale	64.0	65.8	66.3	(1)	(1)	(1)	3.2	3.4	3.3	19.2	19.2	19.3
13 Fort Smith	68.5	66.4	65.2	.8	.9	.9	3.1	2.8	2.7	24.1	22.7	21.5
14 Little Rock—North Little Rock	179.6	181.0	181.4	(1)	(1)	(1)	9.6	8.4	9.0	31.8	31.5	30.8
15 Pine Bluff	32.2	32.4	32.6	(1)	(1)	(1)	2.6	2.6	2.8	6.2	6.0	6.0
16 CALIFORNIA	9,541.7	9,788.6	9,804.2	38.7	40.2	40.4	445.7	432.3	433.3	1,970.8	2,002.8	1,991.6
17 Anaheim—Santa Ana—Garden Grove	799.9	827.9	832.4	2.2	2.1	2.2	48.8	47.3	46.7	214.6	221.5	220.7
18 Bakersfield	122.7	125.9	127.7	10.5	10.4	10.8	6.6	6.3	6.2	8.9	8.9	9.6
19 Fresno	179.1	184.4	185.8	.9	.9	.9	12.3	12.9	13.0	22.5	22.8	22.9
20 Los Angeles—Long Beach	3,564.0	3,677.9	3,676.7	11.7	12.1	12.1	116.1	115.1	114.8	924.7	940.6	934.6
21 Modesto	84.8	87.9	86.9	.1	.1	.1	6.4	6.7	6.5	17.8	17.6	17.5
22 Oxnard—Simi Valley—Ventura	146.1	149.1	149.1	2.4	2.2	2.4	8.0	8.6	8.3	23.2	24.0	23.7
23 Riverside—San Bernardino—Ontario	427.8	445.1	446.3	2.6	2.6	2.6	28.4	29.4	29.6	66.8	67.8	67.7
24 Sacramento	387.3	400.8	402.9	.4	.4	.4	22.4	23.1	23.3	26.3	26.6	26.2
25 Salinas—Seaside—Monterey	87.1	86.2	86.5	.7	.7	.7	3.6	3.2	3.1	9.9	8.9	8.6
26 San Diego	628.0	647.1	647.5	.7	.7	.7	40.3	38.6	37.5	99.5	103.8	102.9
27 San Francisco—Oakland	1,499.5	1,528.8	1,531.7	2.2	2.4	2.4	71.5	71.8	72.3	203.6	200.8	199.2
28 San Jose	623.4	654.2	655.8	.1	.2	.2	25.1	24.3	24.8	216.0	232.5	232.3
29 Santa Barbara—Santa Maria—Lompoc	118.8	121.1	119.4	1.2	1.2	1.2	5.0	5.2	5.2	16.0	16.6	14.9
30 Santa Rosa	87.5	89.9	89.6	.4	.4	.4	5.8	5.6	5.5	13.7	14.2	14.2
31 Stockton	114.9	116.4	117.8	.1	.1	.1	6.1	6.0	6.1	19.8	19.0	19.7
32 Vallejo—Fairfield—Napa	95.4	97.7	97.7	.2	.3	.3	4.7	4.7	4.6	10.2	10.1	10.1
33 COLORADO	1,197.6	1,248.1	1,246.0	29.0	31.7	32.1	74.0	79.8	78.8	176.8	183.5	182.8
34 Denver—Boulder	764.2	797.8	797.4	15.4	17.1	17.0	45.0	47.1	46.2	122.4	126.4	126.7
35 CONNECTICUT	1,394.7	1,404.7	1,411.1	(2)	(2)	(2)	48.8	40.8	43.9	436.9	442.7	441.7
36 Bridgeport	164.5	165.7	168.2	(2)	(2)	(2)	5.6	4.8	5.3	64.9	66.1	66.4
37 Hartford	386.1	393.9	398.3	(2)	(2)	(2)	12.0	10.5	11.0	95.8	99.7	99.9
38 New Britain	62.1	61.9	62.3	(2)	(2)	(2)	2.1	1.6	1.7	29.8	29.6	29.5
39 New Haven—West Haven	185.9	190.5	191.8	(2)	(2)	(2)	6.7	4.7	5.3	45.1	44.2	44.2
40 Stamford	105.6	107.3	108.1	(2)	(2)	(2)	4.6	4.3	4.5	31.2	31.8	31.9
41 Waterbury	89.2	88.1	88.8	(2)	(2)	(2)	3.0	2.8	3.1	34.5	32.5	32.1
42 DELAWARE	254.4	256.0	254.1	(1)	(1)	(1)	14.8	13.4	14.0	69.5	70.1	67.2
43 Wilmington	226.5	222.1	219.7	(1)	(1)	(1)	15.4	12.7	13.4	64.3	63.5	60.4
44 DISTRICT OF COLUMBIA	612.8	614.0	615.8	(1)	(1)	(1)	14.5	13.8	14.3	15.3	15.5	15.5
45 Washington SMSA	1,499.0	1,508.5	1,510.3	(1)	(1)	(1)	79.3	72.1	72.9	53.3	54.9	54.9
46 FLORIDA	3,365.0	3,548.5	3,533.1	10.0	10.2	10.2	227.2	269.1	267.8	434.8	451.8	447.5
47 Bradenton	41.7	42.9	42.4	-	-	-	3.3	2.9	2.9	6.8	7.5	7.5
48 Daytona Beach	75.4	78.1	76.8	(1)	(1)	(1)	4.3	4.8	4.7	8.0	8.2	8.0
49 Fort Lauderdale—Hollywood	327.0	339.1	333.9	(1)	(1)	(1)	25.9	30.4	30.2	39.4	41.8	41.7
50 Fort Myers—Cape Coral	62.2	63.5	62.6	(1)	(1)	(1)	7.6	8.5	8.4	3.7	4.0	4.0
51 Gainesville	63.0	64.9	65.3	(1)	(1)	(1)	3.2	3.5	3.6	3.8	3.7	3.7
52 Jacksonville	284.2	286.9	286.6	(1)	(1)	(1)	15.6	15.6	15.8	34.2	34.1	33.6
53 Lakeland—Winter Haven	112.1	116.6	115.3	5.6	5.8	5.8	8.1	8.4	8.4	20.5	22.6	21.9
54 Melbourne—Titusville—Cocoa	96.0	101.1	101.2	(1)	(1)	(1)	6.2	6.0	5.9	19.3	21.8	21.5
55 Miami	689.7	720.2	716.9	(1)	(1)	(1)	32.0	41.8	41.1	99.2	101.5	100.4
56 Orlando	272.5	282.7	281.6	(1)	(1)	(1)	17.5	20.2	19.3	35.2	36.6	36.2
57 Panama City	32.8	33.3	33.6	(1)	(1)	(1)	2.2	2.3	2.2	3.1	3.2	3.2
58 Pensacola	95.1	96.6	96.8	(1)	(1)	(1)	6.5	7.0	6.8	13.4	12.8	12.9
59 Sarasota	68.3	71.7	71.3	(1)	(1)	(1)	7.3	7.2	7.0	6.2	6.1	6.0
60 Tallahassee	70.1	72.9	72.9	(1)	(1)	(1)	3.4	3.2	3.1	2.5	2.3	2.4
61 Tampa—St. Petersburg	517.2	530.1	527.8	(1)	(1)	(1)	35.6	36.1	35.0	71.8	73.3	72.9
62 West Palm Beach—Boca Raton	192.6	206.1	203.6	(1)	(1)	(1)	17.7	19.1	18.5	25.2	27.8	27.2

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			
APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	
70.9	72.1	72.2	274.7	277.3	277.6	57.9	57.8	57.8	197.5	200.7	200.7	290.4	301.5	301.8	1
28.3	28.8	29.0	84.8	86.6	87.0	22.5	22.9	22.9	64.0	65.9	66.6	54.7	56.3	56.8	2
2.7	2.7	2.7	21.9	22.3	22.2	3.3	3.4	3.4	17.0	17.1	17.3	33.8	33.8	34.2	3
10.6	10.8	10.9	36.5	36.5	37.0	7.0	7.3	7.4	27.9	27.3	27.5	25.5	25.8	26.0	4
4.6	4.6	4.6	24.0	23.8	23.7	6.0	6.0	6.0	19.4	19.5	19.6	28.7	29.1	29.0	5
1.9	1.8	1.8	9.8	9.7	9.7	1.7	1.7	1.7	6.3	6.3	6.3	17.7	18.0	18.1	6
15.9	16.2	(*)	28.7	28.8	(*)	8.5	8.1	(*)	29.2	30.8	(*)	55.9	55.8	(*)	7
47.9	49.6	49.5	232.3	242.9	242.1	53.7	57.4	57.0	190.2	198.7	198.3	205.1	207.9	212.2	8
28.6	29.4	29.3	154.9	162.2	162.0	41.3	44.0	43.9	121.8	129.7	129.3	104.0	104.9	106.9	9
8.7	9.7	8.7	39.0	40.9	40.7	7.9	8.3	8.3	36.4	37.9	37.9	44.4	45.7	46.4	10
43.0	43.3	42.9	162.2	161.5	161.9	30.8	31.5	31.9	110.2	114.6	116.5	141.7	146.2	147.1	11
3.5	4.0	4.0	15.5	16.2	16.4	2.1	2.2	2.3	8.3	8.6	8.8	12.2	12.2	12.2	12
3.6	3.7	3.7	14.8	14.1	14.1	2.4	2.5	2.5	11.1	11.1	11.0	8.6	8.6	8.8	13
13.5	14.0	13.8	41.6	41.3	41.4	12.2	12.4	12.4	33.2	34.4	34.9	37.6	39.0	39.1	14
3.9	4.1	4.1	6.4	6.5	6.4	1.3	1.3	1.3	4.9	5.0	5.0	6.9	6.9	7.0	15
509.9	538.5	541.8	2,178.8	2,236.1	2,234.2	585.5	607.4	607.7	2,043.6	2,141.6	2,152.7	1,768.7	1,789.7	1,802.5	16
25.4	26.8	26.9	192.2	200.6	201.9	51.2	55.0	54.9	160.4	166.9	168.5	105.1	107.7	110.6	17
7.3	7.8	7.7	31.5	32.9	32.9	4.6	4.5	4.5	22.0	22.5	22.5	31.3	32.5	33.5	18
9.9	10.4	10.4	46.1	47.0	47.5	10.5	11.1	11.1	34.5	36.3	36.6	42.4	43.0	43.4	19
191.4	203.2	203.0	804.4	827.6	828.1	220.4	225.5	225.4	802.1	842.4	845.2	493.2	511.4	513.5	20
3.7	3.6	3.7	20.5	22.4	22.2	3.4	3.5	3.5	15.9	16.4	16.5	17.0	17.6	16.9	21
6.1	6.1	6.1	34.3	34.3	34.4	6.9	6.9	6.9	28.2	29.4	29.4	37.1	37.6	37.9	22
23.1	24.2	24.3	102.2	107.9	107.9	18.4	19.1	19.2	87.8	91.9	92.2	98.5	102.2	102.8	23
20.9	21.6	21.9	90.2	96.3	96.1	20.2	21.2	21.2	69.8	73.9	74.5	137.1	137.7	139.3	24
4.6	4.6	4.6	22.2	21.9	22.2	4.2	4.4	4.4	19.0	18.9	19.2	22.9	23.6	23.7	25
27.3	28.2	28.2	142.7	146.8	146.9	36.6	38.4	38.1	139.4	147.0	147.2	141.5	143.6	146.0	26
116.1	126.6	126.8	346.2	352.0	352.4	138.6	143.4	142.8	328.8	339.5	340.6	292.5	292.3	295.2	27
20.5	21.0	21.1	116.4	122.9	123.2	25.3	26.3	26.2	139.3	146.9	146.9	80.7	80.1	81.1	28
4.7	4.7	4.7	30.4	30.9	30.9	5.4	5.4	5.4	31.5	32.9	32.7	24.6	24.3	24.4	29
4.3	4.5	4.5	20.9	22.0	22.0	5.4	5.6	5.5	17.0	17.3	17.3	20.0	20.3	20.2	30
8.0	8.5	8.7	25.7	26.5	26.4	4.8	5.0	5.0	22.9	23.9	24.1	27.5	27.4	27.7	31
4.2	4.5	4.5	20.0	20.6	20.7	3.4	3.4	3.4	18.0	18.5	18.6	34.7	35.6	35.5	32
73.6	76.1	76.5	293.5	300.5	300.5	73.2	77.6	77.7	237.4	253.0	251.9	240.1	246.1	245.6	33
51.8	53.4	53.6	186.2	191.6	191.6	52.2	56.0	56.2	155.3	166.6	166.4	135.9	139.6	139.7	34
61.0	61.9	62.1	294.1	296.2	297.5	98.4	101.7	101.9	272.2	277.4	279.4	183.3	184.0	184.6	35
6.1	6.1	6.1	33.4	33.4	34.1	6.7	6.8	6.8	31.1	31.6	32.5	16.9	16.9	17.0	36
15.4	15.7	16.4	80.2	81.9	83.1	56.4	58.6	59.0	72.0	73.1	74.5	54.2	54.4	54.4	37
1.5	1.4	1.5	10.6	10.5	10.7	1.8	1.8	1.9	9.5	10.1	10.1	6.9	6.9	6.9	38
16.0	15.9	16.0	39.5	40.8	41.0	9.9	10.5	10.5	44.4	47.2	47.9	24.4	27.2	26.9	39
3.7	3.9	3.9	23.9	24.3	24.6	7.3	7.5	7.3	25.1	25.9	26.3	9.7	9.6	9.6	40
3.2	3.1	3.2	15.4	15.5	15.6	3.3	3.4	3.4	18.3	19.2	19.6	11.5	11.6	11.8	41
12.4	12.6	12.6	55.5	55.8	55.9	11.5	11.8	11.7	45.3	45.8	46.3	45.3	46.4	46.2	42
12.0	12.0	12.0	46.3	44.4	44.0	10.7	10.8	10.8	40.2	40.3	40.8	37.6	38.4	38.2	43
25.5	25.6	25.7	65.6	63.7	64.2	34.2	34.1	34.1	173.9	178.3	179.1	283.8	283.0	282.9	44
64.1	66.6	66.9	284.1	280.3	281.6	87.7	88.6	89.6	387.2	398.9	401.2	543.3	547.1	543.2	45
207.7	219.4	219.0	896.7	952.7	946.0	230.1	240.2	240.4	744.9	783.5	783.6	613.6	621.6	618.6	46
1.4	1.5	1.5	12.6	13.4	12.9	2.5	2.7	2.7	7.6	8.3	8.3	7.5	6.6	6.6	47
3.1	3.2	3.3	21.8	21.6	21.5	4.1	4.3	4.4	20.5	21.9	20.9	13.6	14.1	14.0	48
16.3	16.2	16.2	96.5	95.6	92.5	26.2	27.3	27.4	77.9	82.6	81.3	44.8	45.2	44.6	49
3.4	3.8	3.8	18.6	18.4	17.6	5.1	5.6	5.6	13.2	12.7	12.6	10.6	10.5	10.6	50
1.6	-1.7	1.7	14.4	14.1	14.2	2.7	2.7	2.7	10.4	10.7	10.8	26.9	28.5	28.6	51
22.7	23.6	23.6	73.6	73.2	73.2	27.4	27.1	27.3	57.2	59.0	59.0	53.5	54.3	54.1	52
4.9	5.3	5.3	27.7	28.2	27.7	5.7	6.1	6.1	22.5	22.9	22.8	17.1	17.3	17.3	53
4.2	4.6	4.6	21.3	22.4	22.5	3.9	3.9	4.1	23.0	23.8	23.9	18.1	18.6	18.7	54
67.9	71.0	70.6	180.3	184.8	184.9	48.7	51.2	51.2	169.3	175.4	175.1	92.3	94.5	93.6	55
13.5	13.8	13.8	75.2	74.1	73.4	17.2	19.0	18.9	71.3	73.5	74.6	42.6	45.5	45.4	56
1.7	1.6	1.7	9.1	8.5	8.6	1.7	1.9	1.9	6.1	6.2	6.4	8.9	9.6	9.6	57
4.9	5.1	5.2	22.1	22.1	22.1	4.3	4.4	4.3	18.6	19.5	19.8	25.3	25.7	25.7	58
2.8	2.9	2.9	20.4	21.7	21.6	5.5	5.7	5.7	16.6	17.9	17.9	9.5	10.2	10.2	59
2.3	2.4	2.4	14.2	15.2	15.1	2.9	3.0	2.9	9.9	12.2	12.3	34.9	34.6	34.7	60
29.0	29.4	29.4	143.8	145.3	145.0	35.5	37.3	37.4	121.1	127.8	127.2	80.4	80.9	80.9	61
8.2	8.4	8.5	49.7	53.7	52.7	15.6	16.5	16.5	46.9	50.1	49.6	29.3	30.5	30.6	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
1 GEORGIA	2,109.3	2,137.9	2,136.8	7.7	7.6	7.5	98.7	96.7	97.2	527.2	525.0	520.1
2 Albany	43.8	45.6	45.5	(1)	(1)	(1)	4.4	3.2	3.2	10.4	11.4	11.3
3 Atlanta	928.8	939.1	940.9	(1)	(1)	(1)	39.5	38.4	38.4	144.3	141.7	141.3
4 Augusta	120.4	121.4	121.8	(1)	(1)	(1)	6.4	6.3	6.1	36.2	36.5	36.4
5 Columbus	82.2	82.7	83.2	(1)	(1)	(1)	4.1	3.6	3.6	21.7	21.9	22.0
6 Macon	95.3	95.9	95.4	(1)	(1)	(1)	4.4	4.0	3.9	15.4	16.3	16.0
7 Savannah	85.6	83.8	83.8	(1)	(1)	(1)	5.2	4.3	4.4	16.8	16.2	16.1
8 HAWAII	393.4	411.3	410.5	(1)	(1)	(1)	22.8	23.2	22.9	22.8	23.1	22.9
9 Honolulu	325.5	339.7	339.5	(1)	(1)	(1)	18.6	18.4	18.0	16.8	16.3	16.3
10 IDAHO	333.1	327.7	325.9	3.9	4.0	3.6	18.0	14.4	14.7	56.1	55.2	52.9
11 Boise City	82.2	78.4	78.3	(1)	(1)	(1)	5.9	5.1	4.9	9.2	9.7	9.5
12 ILLINOIS	4,762.5	4,712.3	4,712.5	29.9	28.3	29.0	175.5	156.9	165.5	1,269.0	1,212.6	1,194.1
13 Bloomington—Normal	49.8	50.1	49.9	(2)	(2)	(2)	1.1	1.1	1.2	7.5	7.9	7.8
14 Champaign—Urbana—Rantoul	72.9	73.8	78.7	(2)	(2)	(2)	2.1	2.0	2.1	7.6	7.8	7.8
15 Chicago—Gary	3,463.1	(*)	(*)	5.1	(*)	(*)	130.6	(*)	(*)	956.2	(*)	(*)
16 Chicago SMSA	3,206.7	3,186.3	3,186.9	5.0	5.1	5.1	116.6	104.9	110.0	852.7	834.0	825.0
17 Davenport—Rock Island—Moline	165.6	159.6	159.1	(2)	(2)	(2)	7.5	6.9	7.1	51.4	44.6	45.6
18 Decatur	53.5	54.0	51.2	(2)	(2)	(2)	2.5	2.2	2.3	20.1	19.5	18.0
19 Karlovakee	36.0	35.6	36.0	(2)	(2)	(2)	1.4	1.2	1.5	10.3	10.2	10.1
20 Peoria	152.8	152.1	151.5	(2)	(2)	(2)	7.4	6.8	7.3	52.2	51.5	52.2
21 Rockford	121.8	121.6	120.9	(2)	(2)	(2)	3.2	3.1	3.4	56.9	56.3	56.3
22 Springfield	84.0	85.4	85.8	(2)	(2)	(2)	2.9	2.9	3.3	7.1	6.6	6.8
23 INDIANA	2,251.7	2,206.5	2,219.3	10.8	10.6	10.9	101.4	95.9	101.2	750.0	696.9	691.4
24 Anderson	53.2	48.1	47.3	(1)	(1)	(1)	1.3	1.0	1.0	25.0	21.3	20.7
25 Elkhart	80.7	75.2	74.6	-	-	-	2.5	2.1	2.1	44.5	40.1	39.5
26 Evansville	128.8	126.7	126.9	2.9	2.6	2.6	6.2	7.1	6.9	39.8	37.6	37.1
27 Fort Wayne	185.8	170.6	170.3	(1)	(1)	(1)	7.9	7.3	7.6	64.7	50.8	49.8
28 Gary—Hammond—East Chicago	270.5	263.8	265.0	(1)	(1)	(1)	18.8	19.1	19.3	105.9	96.7	97.2
29 Indianapolis	528.6	536.6	540.0	(1)	(1)	(1)	23.2	22.7	23.9	132.5	126.7	126.0
30 Lafayette—West Lafayette	59.2	57.7	58.1	(1)	(1)	(1)	2.1	1.8	2.0	12.6	11.8	11.8
31 Muncie	51.2	49.4	51.0	(1)	(1)	(1)	1.9	1.7	1.8	14.9	12.6	13.7
32 South Bend	116.5	115.4	114.4	(1)	(1)	(1)	4.9	4.8	4.8	34.9	33.2	32.3
33 Terre Haute	67.7	66.0	66.3	1.4	1.4	1.4	3.7	3.3	3.5	17.2	16.7	16.7
34 IOWA	1,130.2	1,124.7	1,131.7	2.4	2.2	2.4	54.9	45.5	48.3	259.2	256.7	252.2
35 Cedar Rapids	85.2	86.8	86.8	(1)	(1)	(1)	4.5	3.8	3.8	29.4	29.1	29.0
36 Des Moines	182.2	182.0	181.2	(1)	(1)	(1)	7.6	6.8	6.7	26.7	27.1	26.3
37 Dubuque	44.9	45.0	45.1	(1)	(1)	(1)	1.7	1.4	1.4	16.9	17.2	17.1
38 Sioux City	50.0	50.1	50.0	(1)	(1)	(1)	2.3	2.2	2.2	9.5	8.9	8.8
39 Waterloo—Cedar Falls	67.2	69.7	69.5	(1)	(1)	(1)	2.8	3.0	3.0	23.3	25.3	24.9
40 KANSAS	946.0	953.3	955.0	13.3	14.0	14.4	48.6	45.8	49.5	198.7	198.2	192.2
41 Lawrence	28.6	29.4	29.3	(2)	(2)	(2)	1.3	1.3	1.3	4.6	4.9	5.0
42 Topeka	87.3	87.3	88.3	.2	.2	.2	3.6	3.7	4.2	12.1	10.9	10.9
43 Wichita	202.6	209.5	209.8	2.2	2.5	2.6	10.0	9.5	10.1	64.8	68.3	67.5
44 KENTUCKY	1,247.1	1,223.3	1,227.2	54.6	53.5	53.9	69.2	58.4	60.2	298.1	286.3	282.0
45 Lexington—Fayette	149.7	149.7	150.6	(1)	(1)	(1)	8.7	8.5	9.5	31.0	30.5	30.1
46 Louisville	405.0	395.4	393.7	(1)	(1)	(1)	20.0	16.7	16.7	111.7	104.4	100.7
47 Owensboro	30.2	29.8	29.9	.7	.7	.7	1.9	1.9	2.0	7.0	6.5	6.4
48 LOUISIANA	1,490.8	1,520.9	1,525.6	73.0	78.7	78.6	124.1	128.3	129.5	209.8	208.4	208.6
49 Alexandria	50.5	50.8	51.0	(1)	(1)	(1)	2.9	2.8	2.9	5.9	5.8	5.8
50 Baton Rouge	190.2	191.5	191.9	.8	.8	.8	22.4	21.6	22.0	25.8	25.9	25.7
51 Lafayette	71.7	74.9	75.2	12.6	12.7	12.8	5.5	6.3	6.2	3.3	3.6	3.6
52 Lake Charles	62.6	63.0	63.7	1.8	1.9	1.8	8.0	7.6	7.7	12.7	12.7	12.9
53 Monroe	49.7	48.8	48.6	.5	.5	.5	3.9	3.8	3.6	8.6	7.8	7.7
54 New Orleans	489.4	495.4	495.1	15.8	16.4	16.4	29.7	30.5	30.5	54.0	53.7	53.6
55 Shreveport	143.7	145.1	145.0	4.7	4.8	4.9	10.2	8.8	8.3	27.8	27.7	27.2
56 MAINE	409.3	406.9	412.0	(1)	(1)	(1)	17.0	15.7	17.0	112.4	113.5	111.9
57 Lewiston—Auburn	34.7	35.1	36.1	(1)	(1)	(1)	1.5	1.4	1.5	12.1	11.6	12.3
58 Portland	88.3	91.3	91.9	(1)	(1)	(1)	3.7	3.2	3.3	17.5	18.1	18.0
59 MARYLAND	1,621.8	1,614.7	(*)	(1)	(1)	(*)	103.5	95.3	(*)	243.5	240.4	(*)
60 Baltimore	896.0	893.6	(*)	(1)	(1)	(*)	50.8	46.9	(*)	163.4	159.8	(*)

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	
133.6	138.5	137.7	488.2	500.9	500.1	106.3	108.2	108.0	325.1	336.9	339.9	422.4	424.1	426.1	1
2.0	2.1	2.1	9.8	10.0	10.1	2.0	2.3	2.3	5.7	6.5	6.5	9.6	10.1	10.1	2
81.8	85.1	86.0	255.8	259.3	259.0	62.7	63.4	63.6	185.5	192.2	194.2	159.3	157.9	158.6	3
4.2	4.4	4.4	22.9	22.7	22.8	4.5	4.6	4.6	16.1	15.9	16.4	30.1	31.0	31.0	4
3.4	3.5	3.5	17.5	16.7	16.7	5.2	5.2	5.2	11.1	11.4	11.4	19.1	20.5	20.7	5
4.7	4.8	4.7	20.3	20.1	19.9	5.7	5.6	5.6	15.8	16.4	16.4	29.0	28.8	28.9	6
8.6	9.0	8.7	19.8	19.4	19.4	4.1	4.1	4.1	14.9	15.3	15.5	16.2	15.6	15.7	7
29.4	30.8	30.7	102.6	106.8	106.7	30.0	31.1	31.1	96.3	104.6	104.3	89.5	91.7	91.9	8
24.2	25.6	25.6	85.4	89.5	89.3	26.0	27.0	26.9	78.3	85.0	84.7	76.2	77.9	78.7	9
20.3	20.0	20.0	82.6	81.8	81.5	23.0	22.9	22.9	59.9	58.9	59.1	69.3	70.5	71.2	10
5.2	5.2	5.1	21.4	19.6	19.5	9.1	7.8	7.8	14.5	13.5	13.7	16.9	17.5	17.8	11
278.4	291.9	287.6	1,085.7	1,075.5	1,063.8	286.3	295.1	303.0	887.4	892.7	885.9	750.3	759.3	783.6	12
3.0	3.0	2.9	11.0	10.9	11.0	7.6	7.6	7.1	7.9	8.3	8.2	11.7	11.4	11.7	13
2.4	2.7	2.7	17.5	18.1	18.1	2.2	2.2	2.3	9.9	10.1	10.2	31.2	30.9	35.5	14
211.1	(*)	(*)	784.0	(*)	(*)	227.4	(*)	(*)	675.9	(*)	(*)	472.9	(*)	(*)	15
194.4	196.5	197.3	744.0	730.8	733.9	218.7	219.3	220.6	633.5	644.2	644.5	441.8	451.5	450.5	16
7.9	7.9	7.8	39.8	40.6	39.9	7.1	6.9	6.9	25.3	25.4	25.4	26.6	27.3	26.4	17
5.0	5.2	5.1	10.6	10.8	9.6	2.7	2.8	2.8	7.8	8.4	8.3	4.8	5.1	5.1	18
1.5	1.6	1.6	7.8	8.1	8.6	1.1	1.1	1.1	6.7	6.3	6.2	7.2	7.1	7.1	19
8.0	8.4	8.3	35.5	35.1	34.9	7.0	7.2	7.1	25.6	25.9	25.9	17.1	17.2	17.0	20
5.1	5.1	4.9	24.4	24.4	23.5	4.1	4.2	4.2	16.0	16.3	16.6	12.1	12.2	12.0	21
5.5	5.6	5.3	18.3	19.0	18.8	6.7	6.6	7.2	15.6	16.6	16.5	27.9	28.1	27.9	22
109.5	109.5	110.1	497.8	487.4	492.3	100.3	102.7	102.6	329.4	341.0	348.0	352.5	362.4	362.9	23
1.5	1.5	1.5	10.8	9.9	9.8	1.7	1.6	1.6	7.1	7.1	7.0	5.8	5.7	5.7	24
2.4	2.3	2.3	15.3	14.5	14.5	2.1	2.1	2.1	8.8	8.8	8.8	5.1	5.3	5.3	25
6.4	5.9	6.9	32.1	31.5	31.8	4.4	4.4	4.5	24.3	23.9	24.2	12.7	12.7	12.9	26
11.5	11.5	11.5	44.5	43.5	43.7	10.3	10.5	10.6	28.8	28.8	28.9	18.1	18.2	18.2	27
15.4	15.7	15.7	54.2	55.0	55.0	9.5	9.6	9.6	34.5	34.9	35.2	31.8	32.8	33.0	28
26.7	32.7	32.7	133.0	135.3	136.9	37.2	38.3	38.5	88.6	91.7	92.7	87.3	89.2	89.3	29
1.6	1.6	1.6	11.8	11.3	11.4	2.8	2.5	2.5	9.1	9.0	9.1	19.2	19.7	19.7	30
2.0	2.0	2.0	12.0	12.2	12.3	1.6	1.6	1.6	7.6	8.0	8.1	11.2	11.3	11.5	31
5.0	5.3	5.3	29.4	29.2	28.9	5.4	5.4	5.3	24.1	24.4	24.7	12.8	13.1	13.1	32
4.1	4.0	4.0	17.0	16.6	16.6	2.2	2.1	2.1	9.6	9.5	9.6	12.5	12.4	12.4	33
57.9	58.7	57.7	283.7	285.0	287.9	55.9	58.3	58.5	203.6	206.8	209.1	212.6	211.6	215.7	34
4.1	4.1	3.9	18.1	19.7	19.7	4.2	4.6	4.6	15.3	15.6	15.8	9.6	9.9	10.0	35
11.8	12.0	11.7	48.5	48.4	48.3	20.0	20.2	20.2	38.7	38.7	38.6	28.9	28.8	29.4	36
1.5	1.7	1.6	9.0	8.9	8.8	1.2	1.2	1.2	10.1	10.3	10.4	4.4	4.4	4.5	37
4.1	4.0	4.0	13.2	13.9	13.7	2.8	2.9	2.9	11.1	11.5	11.6	7.0	6.7	6.9	38
2.7	2.8	2.8	14.0	13.7	13.8	2.0	2.1	2.1	10.9	11.1	11.2	11.5	11.6	11.6	39
64.8	65.8	66.0	223.6	225.0	225.7	45.2	45.9	46.4	164.3	170.2	171.4	187.5	188.4	189.4	40
1.5	1.4	1.4	5.8	5.8	5.7	.8	.9	.9	3.6	3.7	3.7	11.0	11.4	11.3	41
7.5	7.5	7.5	18.9	18.9	19.1	5.9	6.0	6.1	16.8	17.3	17.3	22.3	22.8	23.0	42
10.1	11.1	11.1	44.6	44.6	44.8	9.0	9.2	9.1	37.6	39.3	39.5	24.3	25.0	25.1	43
69.5	69.0	68.7	267.0	262.9	261.8	50.2	50.2	50.6	204.9	207.4	213.9	233.6	235.6	236.1	44
7.3	7.7	7.8	33.1	32.2	31.5	7.1	7.4	7.5	28.4	27.9	28.5	34.1	35.5	35.7	45
24.7	24.9	24.6	90.0	86.5	87.3	22.5	23.1	22.9	74.8	76.3	77.5	61.4	63.3	63.8	46
2.2	2.3	2.3	7.2	6.8	6.9	1.1	1.2	1.2	5.5	5.6	5.6	4.6	4.8	4.8	47
113.3	113.1	115.1	353.6	359.3	360.2	72.9	75.0	75.2	252.0	254.5	255.4	292.1	303.6	303.0	48
2.5	2.5	2.5	11.2	11.1	11.0	2.8	2.9	2.9	10.0	10.3	10.4	15.2	15.4	15.5	49
9.8	10.2	10.3	41.7	44.8	44.9	11.0	11.1	11.1	30.4	30.5	30.4	48.3	46.6	46.7	50
4.9	5.2	5.2	19.0	20.4	20.5	2.3	2.4	2.4	14.3	14.1	14.3	9.8	10.2	10.2	51
3.7	3.4	3.7	14.0	14.2	14.2	2.5	2.6	2.7	9.0	9.3	9.3	10.9	11.3	11.4	52
2.5	2.5	2.5	13.3	13.0	13.0	3.5	3.5	3.5	7.5	7.9	7.9	9.9	9.8	9.9	53
19.1	19.4	19.8	123.8	124.9	124.9	29.4	30.5	30.6	106.0	106.2	106.0	81.6	83.8	83.3	54
9.9	10.4	10.3	34.7	35.2	35.5	7.0	7.4	7.4	24.9	25.3	25.7	24.5	25.5	25.7	55
18.3	18.5	18.7	88.8	85.1	88.3	16.0	16.4	16.6	72.8	72.7	74.2	84.0	85.0	85.3	56
1.1	1.1	1.1	7.9	8.3	8.5	1.5	1.6	1.6	7.2	7.8	7.8	3.4	3.3	3.3	57
5.2	5.4	5.4	24.0	25.8	26.0	7.0	7.3	7.3	18.1	18.2	18.5	12.8	13.3	13.4	58
87.1	86.5	(*)	380.5	375.9	(*)	88.3	90.0	(*)	329.6	337.4	(*)	389.3	389.2	(*)	59
61.9	62.0	(*)	191.8	191.2	(*)	53.5	54.8	(*)	176.4	179.6	(*)	198.2	199.3	(*)	60

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

States and area	Total			Mining			Construction			Manufacturing		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
1 MASSACHUSETTES	2,589.5	2,634.5	2,665.7	(1)	(1)	(1)	72.6	73.5	78.8	667.1	676.8	677.5
2 Boston	1,441.2	1,477.5	1,490.2	(1)	(1)	(1)	39.0	40.7	43.5	291.1	292.3	293.1
3 Brockton	58.2	59.1	59.7	(1)	(1)	(1)	1.6	1.6	1.7	12.9	12.7	12.9
4 Fall River	58.0	57.5	57.9	(1)	(1)	(1)	1.5	1.4	1.5	20.8	20.8	20.8
5 Lawrence—Haverhill	108.4	109.6	111.6	(1)	(1)	(1)	2.9	2.5	2.7	41.2	42.9	43.6
6 Lowell	73.4	75.7	77.1	(1)	(1)	(1)	2.6	2.6	2.8	25.5	28.2	28.6
7 New Bedford	65.7	64.9	66.1	(1)	(1)	(1)	1.6	1.4	1.4	26.5	26.3	26.7
8 Springfield—Chicopee—Holyoke	231.4	234.0	234.7	(1)	(1)	(1)	5.6	5.7	6.0	64.9	68.4	68.0
9 Worcester	164.3	166.4	166.8	(1)	(1)	(1)	4.4	4.3	4.8	49.1	48.9	48.7
10 MICHIGAN	3,621.1	3,505.2	3,439.1	13.4	13.0	13.2	129.4	111.5	117.2	1,178.2	1,041.3	980.0
11 Ann Arbor	142.2	140.2	138.8	(1)	(1)	(1)	2.9	2.4	2.5	47.4	43.3	42.0
12 Battle Creek	66.8	64.3	63.7	(1)	(1)	(1)	1.7	1.6	1.7	24.2	21.3	20.4
13 Bay City	34.7	33.7	33.5	(1)	(1)	(1)	1.0	1.0	1.1	10.8	9.7	9.4
14 Detroit	1,781.5	1,713.1	1,665.3	1.3	1.2	1.3	58.7	51.3	52.6	587.8	518.3	478.1
15 Flint	204.2	189.6	185.1	(1)	(1)	(1)	5.5	5.7	5.8	88.2	74.8	70.4
16 Grand Rapids	271.2	267.0	267.7	(1)	(1)	(1)	13.6	11.2	12.1	96.5	91.5	90.0
17 Jackson	54.7	52.3	51.3	(1)	(1)	(1)	1.8	1.4	1.3	17.2	15.4	15.0
18 Kalamazoo—Portage	110.2	110.8	110.4	(1)	(1)	(1)	4.1	4.4	4.4	35.6	33.9	33.2
19 Lansing—East Lansing	195.6	195.4	193.1	(1)	(1)	(1)	6.1	5.1	5.5	46.1	42.5	38.3
20 Muskegon—Norton Shores—Musk. Hgts.	61.5	60.3	60.3	(1)	(1)	(1)	2.9	2.1	2.2	22.4	21.3	20.9
21 Saginaw	91.8	86.8	83.6	(1)	(1)	(1)	2.5	2.3	2.3	37.8	31.4	28.1
22 MINNESOTA	1,743.3	1,770.0	1,781.8	16.7	15.6	15.1	73.2	70.4	71.2	374.5	381.4	377.1
23 Duluth—Superior	61.2	59.7	60.3	(1)	(1)	(1)	1.8	1.7	1.8	8.1	8.4	8.1
24 Minneapolis—St. Paul	1,062.9	1,086.8	1,093.4	(1)	(1)	(1)	42.4	41.0	41.7	245.9	250.8	247.3
25 Rochester	49.7	(*)	(*)	(2)	(*)	(*)	1.9	(*)	(*)	9.8	(*)	(*)
26 St. Cloud	53.1	(*)	(*)	(1)	(*)	(*)	2.2	(*)	(*)	12.8	(*)	(*)
27 MISSISSIPPI	834.1	836.6	835.7	9.2	9.8	9.9	46.0	43.4	43.4	233.6	227.9	225.8
28 Jackson	144.4	147.5	147.4	1.2	1.3	1.3	7.7	7.1	6.9	18.7	19.3	19.2
29 MISSOURI	2,003.0	1,985.2	1,997.5	7.8	7.3	7.5	89.3	84.0	86.0	465.2	450.9	442.7
30 Kansas City	639.5	625.0	620.5	.6	.5	.6	30.0	23.3	24.2	128.9	127.3	121.3
31 St. Joseph	37.7	36.6	36.5	(2)	(2)	(2)	2.1	1.6	1.9	9.5	9.1	8.9
32 St. Louis	1,005.6	976.8	968.9	3.1	3.0	3.1	43.1	39.7	39.6	260.3	244.9	235.3
33 Springfield	86.0	84.5	84.4	(2)	(2)	(2)	4.4	3.7	4.0	18.7	18.8	18.6
34 MONTANA	277.4	279.9	279.3	7.0	7.6	7.3	13.8	12.7	13.4	25.6	24.8	22.3
35 Billings	46.6	48.1	48.1	(1)	(1)	(1)	2.6	2.3	2.2	4.1	4.5	4.5
36 Great Falls	29.8	29.2	29.3	(1)	(1)	(1)	1.8	1.4	1.4	1.6	1.6	1.6
37 NEBRASKA	622.5	624.3	628.5	1.7	1.5	1.6	32.4	28.7	31.4	98.7	98.3	97.2
38 Lincoln	99.3	102.2	101.9	(2)	(2)	(2)	4.8	4.3	4.4	14.1	13.9	13.8
39 Omaha	261.4	263.4	264.5	(2)	(2)	(2)	11.3	9.7	10.8	37.2	37.1	36.9
40 NEVADA	374.5	394.7	396.9	4.2	5.1	5.1	26.3	25.0	24.6	19.1	20.3	20.3
41 Las Vegas	205.4	217.8	218.2	.4	.6	.6	15.0	14.9	14.6	6.9	7.4	7.4
42 Reno	110.9	116.3	117.3	.7	.8	.8	7.6	6.4	6.3	8.2	8.7	8.6
43 NEW HAMPSHIRE	369.2	379.5	373.8	.4	.4	.4	18.4	20.1	17.0	116.0	116.2	115.8
44 Manchester	73.3	73.8	73.3	(2)	(2)	(2)	3.1	3.1	3.0	19.1	18.3	17.9
45 Nashua	59.5	62.4	62.4	(2)	(2)	(2)	2.7	2.4	2.3	27.5	29.0	29.0
46 NEW JERSEY	(*)	3,014.0	3,030.7	(*)	2.6	2.6	(*)	101.1	104.5	(*)	796.2	792.0
47 Atlantic City	(*)	83.1	86.4	(*)	-	-	(*)	6.0	6.0	(*)	9.0	8.7
48 Camden ⁵	(*)	326.1	329.0	(*)	.1	.1	(*)	12.5	12.7	(*)	69.4	70.8
49 Hackensack ⁶	(*)	393.2	394.9	(*)	(1)	(1)	(*)	10.8	11.8	(*)	112.4	110.9
50 Jersey City ⁶	(*)	227.3	228.1	(*)	-	-	(*)	3.7	3.9	(*)	69.2	69.2
51 Long Branch—Asbury Park	(*)	154.1	156.5	(*)	(1)	(1)	(*)	4.7	4.9	(*)	24.8	24.6
52 New Bruns.—Perth Amboy—Sayreville ⁵	(*)	284.4	283.7	(*)	(1)	(1)	(*)	9.8	10.0	(*)	91.0	89.2
53 Newark ⁶	(*)	941.9	947.7	(*)	.9	.9	(*)	27.4	29.3	(*)	255.1	253.9
54 Paterson—Clifton—Passaic ⁶	(*)	189.5	189.4	(*)	(1)	(1)	(*)	5.2	5.3	(*)	68.5	67.8
55 Trenton	(*)	165.8	166.3	(*)	(1)	(1)	(*)	3.0	3.1	(*)	35.8	35.9
56 Vineland—Millville—Bridgeton	(*)	55.5	55.4	(*)	(1)	(1)	(*)	1.4	1.4	(*)	18.2	18.0
57 NEW MEXICO	455.9	469.7	473.5	26.3	28.3	28.4	35.8	33.7	34.6	34.3	35.1	35.1
58 Albuquerque	184.9	191.0	192.2	(1)	(1)	(1)	15.6	14.9	15.1	17.7	18.4	18.5
59 NEW YORK	7,122.3	7,140.3	7,096.5	5.6	5.6	5.9	194.5	169.3	180.0	1,490.9	1,482.3	1,459.3
60 Albany—Schenectady—Troy	336.7	337.8	339.3	(1)	(1)	(1)	10.2	9.2	10.0	60.4	59.2	59.2
61 Binghamton	118.1	116.9	117.2	(1)	(1)	(1)	3.8	2.6	2.9	43.0	42.4	41.9
62 Buffalo	509.4	509.6	506.6	(1)	(1)	(1)	16.3	16.0	17.3	147.0	140.6	137.3

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	
119.9	121.0	121.6	560.6	568.4	579.2	147.1	150.2	149.7	602.5	626.1	642.1	419.7	418.5	416.8	1
71.3	73.3	73.4	311.3	320.7	324.6	102.6	106.9	107.4	410.4	423.4	430.7	215.5	220.2	217.5	2
4.4	4.5	4.5	15.5	16.0	16.3	2.1	2.1	2.2	9.2	9.4	9.5	12.5	12.8	12.6	3
2.0	1.8	1.8	11.7	11.5	11.7	2.7	2.6	2.6	10.5	11.0	11.1	8.8	8.4	8.4	4
4.5	4.6	4.5	21.6	20.9	21.4	3.8	4.0	4.0	16.1	16.3	16.7	18.3	18.4	18.7	5
3.2	3.3	3.3	15.5	15.2	15.7	2.1	2.0	2.1	11.4	11.3	11.5	13.1	13.1	13.1	6
2.5	2.4	2.5	12.9	12.3	12.9	1.9	1.9	2.0	9.3	9.2	9.4	11.0	11.4	11.2	7
9.4	9.2	9.1	47.7	46.0	46.6	12.2	12.4	12.5	44.1	44.7	45.3	47.5	47.6	47.2	8
7.0	7.0	7.1	35.2	36.1	36.0	8.8	9.0	9.1	32.5	33.3	33.7	27.3	27.8	27.4	9
146.7	155.9	154.1	751.2	740.6	741.0	151.2	155.6	155.7	624.7	638.9	640.3	626.3	648.5	637.6	10
3.6	3.2	3.2	19.4	19.3	19.2	3.5	3.7	3.7	20.5	21.1	21.2	44.9	47.2	47.0	11
2.4	2.3	2.4	11.0	11.2	11.3	3.6	3.6	3.6	11.4	11.7	11.8	12.4	12.6	12.5	12
1.7	1.9	1.9	8.3	8.0	8.1	1.2	1.2	1.2	6.5	6.8	6.8	5.2	5.1	5.0	13
80.6	84.0	83.0	365.6	359.8	357.8	88.1	89.8	89.7	338.3	345.1	343.7	261.2	263.5	259.2	14
7.2	7.1	7.0	39.0	38.9	39.0	6.1	5.8	5.7	29.7	29.9	30.3	28.5	27.4	26.9	15
10.9	10.8	10.7	59.2	59.4	60.3	10.0	10.2	10.2	49.5	51.0	51.5	31.5	32.7	32.6	16
5.0	5.1	5.1	10.8	10.6	10.5	1.5	1.5	1.5	9.7	9.4	9.3	8.7	8.9	8.6	17
3.9	4.3	4.2	20.8	21.3	21.3	3.5	3.5	3.6	21.2	22.2	22.5	21.1	21.2	21.2	18
5.4	5.7	5.7	35.3	35.8	36.1	9.1	9.3	9.2	25.6	27.1	27.6	68.0	69.9	70.7	19
3.1	3.1	3.1	11.2	11.2	11.4	1.7	1.8	1.8	9.8	10.0	10.1	10.2	10.7	10.6	20
4.7	4.8	4.8	17.4	17.4	17.5	3.7	3.8	3.8	13.9	14.6	14.7	11.8	12.5	12.4	21
98.7	98.9	99.4	436.6	440.8	449.3	90.2	94.6	95.1	351.8	362.2	368.7	301.6	306.2	306.0	22
6.3	5.4	5.9	16.3	15.6	15.9	2.2	2.3	2.3	13.2	13.0	12.8	13.3	13.2	13.4	23
53.0	65.8	65.0	261.4	266.5	270.1	66.6	69.3	69.6	225.6	232.8	237.4	158.0	161.1	162.3	24
2.0	(*)	(*)	9.6	(*)	(*)	1.4	(*)	(*)	18.0	(*)	(*)	6.0	(*)	(*)	25
3.4	(*)	(*)	12.5	(*)	(*)	1.7	(*)	(*)	8.9	(*)	(*)	11.5	(*)	(*)	26
39.8	41.6	41.7	161.5	162.3	162.4	32.6	33.1	33.1	116.9	120.1	120.6	194.5	198.3	198.8	27
9.3	10.1	10.1	35.0	35.2	35.2	11.4	11.5	11.5	27.4	28.4	28.6	33.6	34.6	34.6	28
139.6	142.5	141.8	472.6	468.6	478.1	107.3	106.9	107.9	375.0	380.1	385.5	346.2	344.9	348.0	29
55.2	52.1	51.1	161.0	156.2	154.7	43.4	44.0	44.0	126.2	127.3	129.2	94.2	94.3	95.4	30
2.1	2.1	2.1	9.2	9.0	8.9	1.9	1.9	1.8	6.7	6.9	6.9	6.2	6.0	6.0	31
70.5	70.6	70.1	228.8	219.3	219.9	56.0	56.4	56.6	202.2	202.5	203.4	141.6	140.4	140.9	32
6.4	6.6	6.6	24.0	22.7	22.6	3.4	3.3	3.3	17.6	17.7	17.6	11.5	11.7	11.7	33
22.1	22.6	22.5	72.6	72.3	73.4	12.5	12.8	12.7	53.9	55.5	56.3	70.0	71.7	71.4	34
4.6	4.8	4.8	15.7	16.1	16.2	2.3	2.3	2.3	9.5	10.2	10.2	7.7	7.9	7.8	35
1.9	1.9	1.9	9.6	9.5	9.5	2.0	2.1	2.1	6.9	6.9	6.9	6.0	5.9	5.9	36
45.5	46.0	46.5	163.1	164.2	166.0	40.5	41.7	42.1	113.2	116.8	118.6	127.5	127.1	125.1	37
6.9	7.1	7.2	23.1	23.1	23.4	7.1	7.4	7.4	16.5	16.9	17.0	28.0	29.5	28.7	38
24.0	24.7	24.8	68.7	68.8	69.2	23.8	24.9	25.1	56.9	59.1	59.3	39.5	39.1	38.4	39
22.1	24.3	24.5	74.2	80.2	80.6	16.4	17.4	17.5	157.5	165.2	167.1	54.7	57.2	57.2	40
12.1	13.2	13.4	41.8	44.9	44.9	9.1	9.8	9.8	95.7	101.1	101.6	24.4	25.9	25.9	41
7.5	8.5	8.6	23.2	25.6	25.8	5.9	6.2	6.2	42.5	43.9	44.8	15.3	16.2	16.2	42
13.3	13.8	13.7	80.4	83.0	82.5	18.3	19.5	19.4	64.0	66.9	65.5	58.4	59.6	59.5	43
4.7	4.9	4.9	18.5	18.8	18.7	6.2	6.4	6.3	13.5	13.8	13.8	8.2	8.5	8.7	44
1.9	2.0	2.0	11.8	12.3	12.2	1.7	2.0	2.0	8.3	8.7	8.8	5.6	6.0	6.1	45
(*)	187.0	196.4	(*)	662.8	667.5	(*)	154.1	155.0	(*)	578.1	587.1	(*)	532.1	535.6	46
(*)	3.8	3.9	(*)	16.5	17.2	(*)	4.9	5.3	(*)	27.9	30.3	(*)	15.0	15.0	47
(*)	15.4	15.0	(*)	84.9	85.5	(*)	16.4	16.6	(*)	65.7	66.0	(*)	61.7	62.3	48
(*)	19.7	19.7	(*)	113.6	114.2	(*)	16.6	16.7	(*)	74.6	75.9	(*)	45.5	45.7	49
(*)	26.1	25.9	(*)	45.2	45.3	(*)	8.0	8.0	(*)	30.7	31.3	(*)	44.4	44.5	50
(*)	6.1	5.9	(*)	37.2	38.2	(*)	7.6	7.6	(*)	38.9	40.3	(*)	34.8	35.0	51
(*)	22.4	22.4	(*)	64.8	64.8	(*)	9.8	9.8	(*)	39.2	40.1	(*)	47.4	47.4	52
(*)	70.5	70.6	(*)	181.3	181.8	(*)	64.2	64.5	(*)	188.5	190.7	(*)	154.0	156.0	53
(*)	5.9	6.6	(*)	41.3	41.6	(*)	8.8	8.9	(*)	31.4	31.4	(*)	27.4	27.9	54
(*)	5.6	5.6	(*)	24.4	24.5	(*)	6.6	6.7	(*)	43.2	43.1	(*)	47.2	47.4	55
(*)	2.9	2.8	(*)	9.4	9.2	(*)	2.0	2.0	(*)	8.3	8.7	(*)	13.3	13.3	56
27.4	28.4	28.6	102.3	105.0	106.2	20.8	21.7	21.8	86.6	91.3	91.2	122.4	126.2	127.6	57
10.8	11.8	11.9	46.4	47.2	47.8	10.6	11.2	11.3	41.8	44.2	44.2	42.0	43.3	43.4	58
427.1	430.8	430.5	1,458.1	1,448.7	1,430.9	599.1	608.7	610.3	1,622.1	1,664.3	1,669.0	1,324.9	1,330.6	1,310.6	59
15.4	15.7	15.6	69.3	68.4	68.7	15.2	15.4	15.6	67.1	69.6	70.1	99.0	100.3	100.1	60
4.7	4.5	4.5	21.7	21.1	21.4	3.7	4.0	4.0	17.8	18.2	18.2	23.3	23.9	24.3	61
27.8	28.2	28.2	114.0	114.1	114.4	21.8	22.2	22.3	95.6	99.0	98.6	87.0	89.5	88.5	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
NEW YORK—Continued												
1 Elmira	37.4	36.7	37.1	(1)	(1)	(1)	1.1	1.0	1.2	11.9	11.6	11.5
2 Monroe County ?	333.9	332.8	334.6	(1)	(1)	(1)	8.8	7.9	8.3	134.6	133.2	132.7
3 Nassau—Suffolk ?	888.8	889.3	897.2	(1)	(1)	(1)	35.6	31.5	33.0	162.9	165.6	165.4
4 New York—Northeastern New Jersey ..	(*)	6,649.1	(*)	(*)	3.0	(*)	(*)	169.8	(*)	(*)	1,370.5	(*)
5 New York—Nassau—Suffolk ?	4,585.8	4,613.0	4,553.4	1.6	1.7	1.7	121.4	113.0	117.0	775.7	774.5	757.5
6 New York SMSA ?	3,697.0	3,723.7	3,656.3	1.4	1.5	1.5	85.8	81.5	84.0	612.8	608.9	592.1
7 New York City ?	3,260.3	3,282.3	3,212.4	1.1	1.2	1.2	68.6	66.9	68.3	520.6	513.9	497.3
8 Poughkeepsie	96.5	97.6	98.6	(1)	(1)	(1)	2.5	2.2	2.4	31.9	32.5	32.4
9 Rochester	410.5	409.0	411.3	(1)	(1)	(1)	10.8	9.4	9.9	155.2	154.2	153.7
10 Rockland County ?	79.6	80.8	81.4	(1)	(1)	(1)	2.4	1.9	2.1	15.8	16.0	16.0
11 Syracuse	262.6	259.0	261.5	(1)	(1)	(1)	9.8	7.5	7.9	61.6	59.6	59.0
12 Utica—Rome	114.7	115.2	116.0	(1)	(1)	(1)	2.3	2.1	2.5	32.1	32.0	31.8
13 Westchester County ?	344.9	348.0	349.9	(1)	(1)	(1)	14.0	12.0	12.8	75.2	77.7	77.6
NORTH CAROLINA												
14 Asheville	2,362.0	2,410.2	2,420.6	4.9	4.9	5.1	126.1	119.8	122.5	820.7	822.5	823.4
15 Charlotte—Gastonia	69.4	70.2	70.5	(1)	(1)	(1)	3.5	2.8	2.9	21.7	22.0	22.0
16 Charlotte—Gastonia	322.8	327.7	327.0	(1)	(1)	(1)	17.4	17.7	17.6	89.0	89.2	88.9
17 Greensboro—Winston-Salem—High Pt.	386.4	391.1	392.6	(1)	(1)	(1)	17.1	15.5	15.8	149.2	151.8	152.3
18 Raleigh—Durham	263.4	273.6	274.6	(1)	(1)	(1)	14.8	14.8	14.7	42.6	43.8	43.9
NORTH DAKOTA												
19 Fargo—Moorhead	236.8	243.1	245.5	4.7	6.3	6.7	14.5	14.1	14.4	16.2	16.5	15.5
20 Fargo—Moorhead	62.1	63.0	62.9	(2)	(2)	(2)	3.7	3.4	3.4	5.3	5.0	4.6
OHIO												
21 Akron	4,473.4	4,438.2	4,445.6	32.0	31.1	30.7	173.4	155.0	161.7	1,388.4	1,327.3	1,304.0
22 Akron	270.3	269.3	270.1	(*)	(*)	(*)	8.6	7.6	7.9	85.6	81.1	80.8
23 Canton	160.2	160.8	161.2	(*)	(*)	(*)	6.1	5.6	5.8	59.0	57.1	56.8
24 Cincinnati	604.9	604.8	607.4	(*)	(*)	(*)	27.0	25.2	25.8	171.8	167.6	165.8
25 Cleveland	914.5	912.4	914.6	(*)	(*)	(*)	31.7	30.3	31.8	279.0	268.5	262.6
26 Columbus	502.1	506.7	506.6	(*)	(*)	(*)	19.8	18.1	18.9	101.4	98.5	95.6
27 Dayton	363.8	362.2	362.7	(*)	(*)	(*)	12.9	12.1	12.9	110.1	103.1	102.2
28 Toledo	307.5	300.7	300.1	(*)	(*)	(*)	11.2	10.2	10.3	90.5	82.4	80.2
29 Youngstown—Warren	213.1	209.9	210.8	(*)	(*)	(*)	6.7	5.9	6.3	79.8	74.4	73.7
OKLAHOMA												
30 Oklahoma City	1,075.3	1,120.0	1,128.4	58.6	64.9	64.9	58.0	59.5	59.2	181.0	187.5	187.8
31 Oklahoma City	374.5	401.9	404.0	13.0	14.4	14.6	19.4	20.5	20.5	51.0	57.2	57.2
32 Tulsa	282.8	289.3	290.7	17.6	19.1	19.2	16.4	15.5	15.6	59.0	61.0	61.2
OREGON												
33 Eugene—Springfield	1,036.7	1,051.9	1,040.6	2.2	2.1	2.1	49.8	49.1	48.7	218.8	221.4	206.1
34 Eugene—Springfield	103.3	102.0	100.4	(1)	(1)	(1)	5.4	4.6	4.1	20.3	19.9	18.5
35 Jackson County	-	-	-	-	-	-	-	-	-	7.8	7.1	6.2
36 Portland	545.3	559.0	557.9	(1)	(1)	(1)	26.5	27.3	26.8	112.1	117.4	115.3
37 Salem	87.1	88.4	(*)	(1)	(1)	(*)	4.9	4.5	(*)	12.0	12.3	(*)
PENNSYLVANIA												
38 Allentown—Bethlehem—Easton	4,819.4	4,773.2	4,805.5	52.2	49.6	50.2	197.9	180.7	195.7	1,389.5	1,372.2	1,366.8
39 Allentown—Bethlehem—Easton	262.3	262.9	264.2	(1)	(1)	(1)	9.2	8.6	8.9	110.2	111.3	111.4
40 Altoona	52.4	53.7	54.0	(1)	(1)	(1)	2.7	2.8	2.8	12.7	13.4	13.4
41 Delaware Valley ¹⁰	1,595.8	1,601.2	1,616.1	(1)	(1)	(1)	60.3	59.8	63.1	383.2	378.7	380.6
42 Erie	117.4	116.1	116.6	(1)	(1)	(1)	3.5	3.1	3.0	44.8	42.9	42.4
43 Harrisburg	217.7	215.2	216.3	(1)	(1)	(1)	8.4	7.6	8.5	43.1	43.5	42.9
44 Johnstown	90.7	88.8	89.1	9.9	8.9	8.6	3.2	3.0	3.1	20.1	19.6	19.3
45 Lancaster	153.6	151.8	152.4	(1)	(1)	(1)	7.9	7.2	7.3	60.6	59.6	59.4
46 Northeast Pennsylvania	245.1	242.4	243.2	1.2	1.1	1.2	13.1	10.6	11.1	74.4	74.8	74.9
47 Philadelphia SMSA	1,922.0	1,927.3	1,945.3	(1)	(1)	(1)	74.7	72.3	75.8	453.7	448.1	451.4
48 Philadelphia City ¹¹	804.1	802.4	808.5	(1)	(1)	(1)	18.9	18.2	19.4	146.2	143.7	143.4
49 Pittsburgh	952.6	943.3	947.4	10.5	10.6	10.7	47.5	40.4	43.5	250.5	249.8	248.9
50 Reading	138.3	138.8	139.3	(1)	(1)	(1)	5.1	5.2	5.3	54.2	53.2	53.2
51 Scranton ¹²	86.3	86.3	87.0	(1)	(1)	(1)	2.5	1.9	2.1	27.7	28.7	28.9
52 Wilkes-Barre—Hazleton ¹³	130.8	127.0	126.6	1.1	1.0	1.0	9.2	7.4	7.5	42.0	40.9	40.7
53 Williamsport	48.7	46.8	44.9	(1)	(1)	(1)	1.5	1.5	1.6	18.5	16.8	14.8
54 York	155.9	155.4	155.4	(1)	(1)	(1)	6.8	6.7	6.9	65.4	66.5	66.2
RHODE ISLAND												
55 Providence—Warwick—Pawtucket ..	396.5	392.5	393.9	(1)	(1)	(1)	13.5	11.0	11.9	131.4	130.7	129.7
56 Providence—Warwick—Pawtucket ..	407.3	403.1	403.9	(1)	(1)	(1)	13.7	11.1	12.1	146.9	145.4	144.3
SOUTH CAROLINA												
57 Charleston—North Charleston	1,174.7	1,194.4	1,200.7	1.9	1.9	1.9	71.0	71.4	71.2	397.4	398.8	396.6
58 Charleston—North Charleston	144.8	147.7	147.7	(1)	(1)	(1)	11.0	11.5	11.5	19.7	18.7	18.6
59 Columbia	177.6	180.8	180.8	(1)	(1)	(1)	8.5	8.0	8.0	27.7	27.9	27.9
60 Greenville—Spartanburg	262.4	264.1	265.0	(1)	(1)	(1)	15.9	16.2	16.1	107.1	106.4	106.6
SOUTH DAKOTA												
61 Rapid City	237.3	234.5	236.4	2.7	3.0	3.0	11.2	9.7	10.4	26.3	26.2	25.8
62 Rapid City	28.9	29.1	29.3	(2)	(2)	(2)	2.5	2.0	2.0	3.0	3.0	3.1
63 Sioux Falls	53.6	52.0	52.0	(2)	(2)	(2)	2.7	2.4	2.4	7.4	7.4	7.2

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			
APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	
1.4	1.4	1.4	8.0	7.8	7.9	1.0	1.0	1.0	6.8	7.0	7.0	7.1	6.9	7.1	1
10.0	9.9	9.6	60.2	60.3	60.7	14.3	14.6	14.7	64.8	65.5	67.0	41.1	41.3	41.5	2
37.7	37.4	37.3	231.0	231.9	234.2	50.6	50.8	51.0	192.8	193.4	197.3	178.1	178.8	179.1	3
(*)	463.7	(*)	(*)	1,389.3	(*)	(*)	612.3	(*)	(*)	1,543.1	(*)	1,097.4	(*)	(*)	4
314.9	317.9	316.9	947.4	943.6	915.4	496.6	504.8	506.0	1,147.7	1,178.7	1,178.1	780.4	778.8	760.9	5
277.2	280.5	279.6	716.4	711.7	681.2	446.0	454.0	455.0	955.1	985.6	981.0	602.3	600.0	581.8	6
254.8	257.6	256.6	617.3	610.9	579.8	425.7	433.8	434.6	851.9	882.2	876.1	520.3	515.9	498.5	7
2.7	2.8	2.8	15.9	16.0	16.2	2.5	2.6	2.6	17.4	17.3	17.8	23.6	24.2	24.5	8
12.8	12.5	12.2	77.4	77.1	78.0	16.0	16.2	16.4	76.3	77.0	78.8	61.9	62.5	62.4	9
3.4	3.6	3.6	16.8	17.1	17.3	2.4	2.4	2.4	17.2	17.9	18.2	21.5	21.9	21.8	10
14.9	14.8	15.0	58.5	58.2	58.9	15.3	15.7	15.8	52.8	52.5	54.0	49.8	50.8	50.9	11
4.0	4.0	4.0	21.6	21.7	22.0	5.6	5.6	5.6	19.9	20.3	20.6	29.2	29.5	29.4	12
18.3	18.7	18.8	79.1	80.3	80.7	17.4	17.3	17.5	83.6	82.9	84.2	57.4	59.0	58.4	13
111.7	118.9	118.1	473.0	490.3	492.4	91.9	96.0	96.4	329.3	345.7	349.6	404.4	412.1	413.1	14
3.6	3.8	3.7	14.7	14.7	15.0	2.1	2.2	2.2	12.5	13.3	13.3	11.3	11.4	11.4	15
29.1	30.7	30.6	83.2	84.7	84.6	20.4	20.5	20.6	48.0	48.9	48.7	35.7	36.0	36.0	16
20.8	21.3	21.3	77.9	78.0	78.3	17.7	18.0	18.1	55.7	57.6	57.9	48.0	48.9	48.9	17
12.7	13.4	13.5	50.9	52.8	52.6	14.9	15.3	15.5	55.3	59.0	59.8	72.2	74.5	74.6	18
15.3	16.1	16.2	66.4	67.6	68.5	10.8	11.3	11.3	47.6	49.2	49.7	61.3	62.0	63.2	19
3.9	4.0	4.0	19.0	19.3	19.3	3.6	3.9	3.9	13.9	14.1	14.3	12.7	13.3	13.4	20
223.3	233.6	234.1	969.0	967.9	975.1	196.5	203.2	203.6	805.5	821.8	838.4	685.3	698.4	698.0	21
14.8	15.9	15.9	57.9	58.3	58.8	9.3	9.5	9.5	49.1	51.2	51.6	44.6	45.3	45.2	22
7.1	7.6	7.5	34.4	35.0	35.2	5.4	5.8	5.7	28.7	29.7	30.2	18.3	19.0	18.8	23
33.0	35.3	35.1	138.0	138.4	139.1	31.7	32.3	32.4	117.5	121.5	124.9	85.5	84.2	83.9	24
44.0	47.4	48.4	210.5	210.5	212.0	47.0	48.2	48.3	182.0	185.0	188.2	118.7	121.0	121.8	25
24.6	25.2	25.0	118.5	119.9	120.4	35.2	37.6	37.5	99.6	101.8	103.4	102.3	104.9	105.1	26
12.9	13.3	13.4	75.0	75.4	75.5	13.1	13.4	13.4	70.4	73.3	74.0	69.1	71.1	70.8	27
20.8	21.9	21.6	68.2	67.7	68.3	10.4	10.8	10.8	58.8	59.6	60.8	47.1	47.5	47.5	28
9.6	10.6	10.5	46.4	46.6	47.2	6.8	7.1	7.1	37.5	37.8	38.8	25.9	27.1	26.7	29
54.4	65.5	64.7	253.2	259.1	262.4	52.9	54.2	54.7	181.4	193.5	197.8	225.8	235.8	236.9	30
22.5	23.2	23.1	94.0	100.0	101.4	23.5	24.5	24.5	66.6	71.5	72.1	84.5	90.6	90.6	31
21.5	22.9	22.9	69.8	70.5	70.6	14.3	14.5	14.5	53.7	55.2	55.7	30.5	30.6	31.0	32
56.5	60.7	60.5	252.2	255.8	258.0	67.7	70.0	70.4	184.7	185.3	186.5	204.8	207.5	208.3	33
5.3	5.3	5.2	24.8	25.4	25.3	5.4	5.3	5.4	19.2	19.0	19.3	22.9	22.5	22.6	34
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35
33.1	36.3	36.4	140.4	142.5	143.0	43.4	44.6	44.7	107.0	106.7	106.3	82.8	84.2	85.4	36
2.7	2.9	(*)	18.7	18.9	(*)	5.6	5.7	(*)	14.7	15.7	(*)	27.7	28.4	(*)	37
271.8	266.6	266.2	987.4	961.6	967.0	232.7	238.9	238.7	951.4	974.5	992.6	736.5	729.1	728.3	38
13.8	14.0	14.3	50.4	50.2	50.5	8.5	8.6	8.6	40.4	40.9	40.9	29.8	29.3	29.6	39
7.9	7.2	7.1	11.2	12.2	12.3	1.5	1.5	1.5	8.8	8.7	8.9	7.6	7.9	8.0	40
86.2	83.1	83.0	332.1	331.2	333.4	108.0	110.1	110.2	383.9	394.4	401.2	242.1	243.9	244.6	41
5.4	5.4	5.5	23.6	24.4	25.0	4.6	4.8	4.8	20.9	21.3	21.3	14.6	14.2	14.6	42
16.6	16.8	16.6	44.9	42.3	42.8	12.6	12.6	12.6	35.7	36.8	37.1	56.4	55.6	55.8	43
5.9	6.1	6.2	16.6	16.4	16.6	3.8	4.0	4.0	16.0	16.1	16.3	15.2	14.7	15.0	44
6.3	6.6	6.8	33.8	33.1	33.5	5.1	5.4	5.4	24.4	24.7	24.7	15.5	15.2	15.3	45
13.3	13.4	13.3	52.0	50.0	50.0	9.3	9.5	9.4	42.4	42.7	43.0	39.4	40.2	40.3	46
101.6	98.4	98.0	418.9	416.1	419.0	123.6	126.5	126.9	447.3	460.3	467.3	302.2	305.6	306.9	47
57.5	54.1	54.3	150.0	151.0	151.7	69.2	69.9	69.8	215.3	218.4	222.6	147.0	147.1	147.3	48
51.0	60.9	60.5	205.4	201.9	202.8	44.4	44.6	44.6	207.5	206.0	206.6	125.8	129.1	129.8	49
6.6	6.6	6.6	27.4	26.7	26.8	5.8	6.2	6.3	22.4	23.3	23.4	16.8	17.6	17.7	50
4.2	4.3	4.2	20.0	19.6	19.6	3.4	3.4	3.4	16.6	16.6	17.0	11.9	11.8	11.8	51
7.1	7.1	7.0	27.0	25.7	25.5	5.1	5.3	5.3	19.2	19.0	19.1	20.1	20.5	20.5	52
2.4	2.3	2.3	9.9	9.9	9.8	2.1	2.1	2.1	7.7	7.9	7.9	6.6	6.3	6.4	53
7.2	6.8	7.0	32.7	31.1	30.8	3.8	4.0	4.0	20.9	21.4	21.3	19.1	18.9	19.2	54
13.1	13.0	12.9	79.8	77.9	78.1	20.6	20.7	20.3	79.1	79.0	80.4	59.0	60.2	60.6	55
12.9	12.8	12.7	81.4	79.7	79.7	20.6	20.7	20.3	75.8	76.2	77.3	56.0	57.2	57.5	56
51.9	53.4	53.8	220.0	226.3	229.7	45.9	47.7	48.4	153.0	157.6	161.1	233.6	237.3	238.0	57
8.7	9.0	8.9	30.9	32.1	31.7	6.1	6.3	6.4	22.9	24.4	24.7	45.5	45.7	45.9	58
9.1	9.4	9.4	37.7	38.1	38.1	13.3	13.8	13.8	26.4	26.6	26.7	54.9	57.0	56.9	59
10.4	10.4	10.4	50.5	51.0	51.2	8.9	9.4	9.4	35.1	36.0	36.5	34.5	34.7	34.8	60
13.6	13.8	13.8	66.1	64.6	66.0	10.6	11.3	11.5	47.7	47.6	48.1	59.1	58.3	57.8	61
1.9	1.9	1.9	8.7	8.8	9.0	1.4	1.3	1.3	5.8	6.1	6.0	5.6	6.0	6.0	62
5.2	4.9	4.9	16.2	15.2	15.3	3.3	3.4	3.4	12.0	11.9	12.0	6.8	6.8	6.8	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		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
1 TENNESSEE	1,776.2	1,789.1	1,788.3	10.9	10.1	9.8	88.5	84.8	85.8	527.9	527.8	524.2
2 Chattanooga	176.3	175.1	174.8	1.3	1.3	1.3	7.4	6.7	6.7	55.8	53.4	53.4
3 Knoxville	196.6	194.0	193.9	1.6	1.6	1.6	11.9	10.7	10.9	53.6	52.1	51.9
4 Memphis	360.1	356.9	(*)	.2	.2	(*)	15.3	15.6	(*)	63.6	59.6	(*)
5 Nashville—Davidson	364.1	363.9	364.0	(1)	(1)	(1)	20.5	20.4	20.5	83.5	81.3	80.4
6 TEXAS	5,543.1	5,742.8	5,754.3	193.9	214.2	214.4	409.0	432.5	435.0	1,008.6	1,034.7	1,040.7
7 Amarillo	75.2	75.8	75.9	(1)	(1)	(1)	5.0	5.2	5.3	9.3	9.5	9.5
8 Austin	231.2	237.7	237.5	(1)	(1)	(1)	12.9	13.1	13.0	28.2	29.9	30.1
9 Beaumont—Port Arthur—Orange	146.5	130.2	134.8	(1)	(1)	(1)	12.1	9.7	9.9	41.3	29.3	33.8
10 Corpus Christi	121.9	123.4	123.1	6.4	7.0	7.1	15.2	14.3	13.7	15.4	15.6	15.6
11 Dallas—Fort Worth	1,372.0	1,431.6	1,438.0	20.6	23.2	23.3	76.1	80.9	80.1	307.4	314.0	315.2
12 El Paso	154.8	158.7	158.9	(1)	(1)	(1)	8.9	9.5	9.3	32.0	32.7	32.5
13 Galveston—Texas City	67.3	66.8	67.6	(1)	(1)	(1)	5.2	5.6	5.8	12.0	10.2	10.3
14 Houston	1,355.5	1,393.5	1,396.6	67.9	70.7	69.7	143.7	142.4	143.1	225.9	231.2	233.5
15 Lubbock	87.4	89.5	89.5	(1)	(1)	(1)	4.4	4.0	4.1	12.4	13.2	13.2
16 San Antonio	377.0	383.9	385.4	2.0	2.1	2.2	24.6	25.9	25.8	47.1	48.1	48.1
17 Waco	68.9	71.1	70.8	(1)	(1)	(1)	3.4	3.5	3.4	16.3	16.5	16.3
18 Wichita Falls	50.6	51.5	51.4	2.9	2.9	2.9	2.5	2.7	2.7	9.4	9.4	9.3
19 UTAH	540.0	562.9	566.6	17.5	17.7	17.9	32.6	31.4	32.4	84.2	90.2	90.2
20 Salt Lake City—Ogden	383.3	400.8	402.2	7.5	7.5	7.4	22.4	22.1	22.3	56.5	60.8	60.8
21 VERMONT	192.1	201.1	196.0	.7	.7	.7	8.8	9.2	9.4	50.4	51.4	51.6
22 Burlington ¹	54.5	56.1	56.3	-	-	-	-	-	-	13.8	14.4	14.6
23 Springfield ²	14.1	14.7	14.3	-	-	-	-	-	-	6.1	6.2	6.3
24 VIRGINIA	2,082.8	2,097.5	2,106.5	24.8	23.7	23.9	132.8	120.2	122.7	407.4	414.4	412.6
25 Bristol	28.5	28.1	28.6	(1)	(1)	(1)	1.4	1.2	1.4	9.9	9.4	9.5
26 Lynchburg	71.9	72.4	72.1	(1)	(1)	(1)	3.3	3.4	3.3	29.9	29.5	29.3
27 Newport News—Hampton	142.8	147.1	149.9	(1)	(1)	(1)	7.2	6.9	7.3	30.7	33.8	33.8
28 Norfolk—Virginia Beach—Portsmouth	283.7	283.1	282.2	(1)	(1)	(1)	17.3	15.7	15.9	29.5	29.8	28.2
29 Northern Virginia ³	421.7	423.4	424.1	.4	.4	.4	30.1	26.2	26.2	16.4	17.1	17.0
30 Petersburg—Colonial Hghts.—Hopewell	47.0	46.9	47.8	(1)	(1)	(1)	2.2	2.2	2.3	12.5	12.1	12.2
31 Richmond	320.4	324.8	325.6	.4	.4	.4	18.8	16.5	16.5	55.2	55.9	55.7
32 Roanoke	104.7	104.4	104.4	.1	.1	.1	6.0	5.7	5.8	21.0	21.0	20.9
33 WASHINGTON	1,554.4	1,605.3	(*)	2.9	2.7	(*)	99.7	89.8	(*)	300.5	304.6	(*)
34 Seattle—Everett	740.9	778.0	(*)	(1)	(1)	(*)	42.0	43.8	(*)	164.0	173.7	(*)
35 Spokane	127.6	127.9	(*)	(1)	(1)	(*)	7.6	6.5	(*)	17.9	17.5	(*)
36 Tacoma	139.7	140.6	(*)	(1)	(1)	(*)	8.5	7.3	(*)	21.6	22.3	(*)
37 WEST VIRGINIA	639.9	629.9	633.4	66.2	62.0	59.0	40.1	31.2	36.3	125.6	120.9	120.2
38 Charleston	116.9	114.9	116.0	7.4	6.7	6.7	7.9	6.8	7.5	19.7	17.9	17.8
39 Huntington—Ashland	110.0	107.2	108.6	1.1	1.3	1.3	8.4	7.6	7.8	29.9	27.4	28.5
40 Parkersburg—Marletta	58.6	57.7	57.7	.5	.5	.5	4.1	3.7	3.9	17.8	17.0	16.8
41 Wheeling	68.4	65.6	65.9	7.9	6.1	6.1	3.9	3.0	3.4	13.7	13.0	12.8
42 WISCONSIN	1,931.6	1,962.6	1,973.0	2.5	2.2	2.3	73.1	69.6	70.2	585.5	573.1	570.6
43 Appleton—Oshkosh	126.9	131.3	131.6	(1)	(1)	(1)	5.8	6.0	6.2	49.6	49.3	48.9
44 Eau Claire	48.9	47.5	48.9	(1)	(1)	(1)	1.8	1.7	1.6	9.4	7.4	8.8
45 Green Bay	76.1	77.9	78.2	(1)	(1)	(1)	3.3	3.2	3.3	21.3	20.9	20.7
46 Janesville—Beloit	54.1	50.5	49.7	(1)	(1)	(1)	1.7	1.8	1.9	22.5	18.0	16.6
47 Kenosha	45.2	46.1	47.2	(1)	(1)	(1)	2.9	2.2	2.2	17.4	18.3	19.2
48 La Crosse	42.8	44.0	44.6	(1)	(1)	(1)	1.6	1.9	2.0	10.7	10.9	10.9
49 Madison	165.3	172.5	172.3	(1)	(1)	(1)	7.1	7.2	7.5	19.6	20.4	19.9
50 Milwaukee	674.5	685.7	685.9	(1)	(1)	(1)	22.2	21.5	21.3	221.2	215.8	214.7
51 Racine	70.9	71.3	70.6	(1)	(1)	(1)	2.1	1.8	1.8	31.8	31.5	30.7
52 WYOMING	193.8	211.3	213.5	31.1	35.7	35.8	20.8	21.5	22.8	9.5	10.4	10.6
53 Casper	36.7	42.1	41.9	6.8	8.8	8.8	3.5	4.7	5.0	1.9	1.9	1.8
54 Cheyenne	27.6	28.3	28.3	(1)	(1)	(1)	1.9	2.1	2.2	1.7	1.8	1.9
55 VIRGIN ISLANDS	36.0	37.8	37.3	(2)	(2)	(2)	2.5	3.2	3.1	3.1	3.2	3.2

¹ Combined with services.

² Combined with construction.

³ Illinois portion revised to March 1979 benchmark; Indiana portion, December 1978.

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

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

⁶ Subarea of New York—Northeastern New Jersey.

⁷ Subarea of Rochester Standard Metropolitan Statistical Area.

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

⁹ Subarea of New York Standard Metropolitan Statistical Area.

**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			
APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	
85.6	86.5	86.2	385.8	384.8	383.0	76.8	77.1	77.3	283.8	292.4	295.8	316.9	325.6	326.2	1
7.0	7.2	7.2	33.6	32.5	32.4	9.9	10.0	9.9	28.4	28.7	28.7	32.9	35.1	35.2	2
8.0	7.9	7.9	41.4	40.4	40.3	7.9	8.0	8.0	29.9	30.2	30.2	42.3	43.1	43.1	3
27.2	27.2	(*)	96.7	95.3	(*)	19.4	19.7	(*)	70.4	71.6	(*)	67.3	67.7	(*)	4
21.5	21.1	21.1	83.9	78.8	78.5	23.6	24.3	24.4	68.7	72.9	73.9	62.4	65.1	65.2	5
346.1	360.5	361.2	1,361.4	1,383.7	1,388.9	310.1	325.4	325.5	950.5	995.8	994.0	963.5	996.0	994.6	6
7.0	7.1	7.1	22.3	22.0	22.1	3.8	3.8	3.7	14.5	14.7	14.8	13.3	13.5	13.4	7
7.0	7.1	7.1	47.7	48.8	48.5	13.3	13.7	13.7	40.2	41.2	41.2	81.9	83.9	83.9	8
11.4	10.7	10.8	32.2	30.2	30.1	5.3	5.2	5.1	24.3	24.0	23.9	19.9	21.1	21.2	9
6.9	6.8	7.1	28.1	28.3	28.1	5.2	5.5	5.5	18.8	20.0	20.0	25.9	25.9	26.0	10
87.2	94.2	94.5	361.6	384.9	386.5	99.8	105.4	106.1	241.2	251.1	254.0	178.1	177.9	178.3	11
10.9	10.8	10.7	38.4	39.4	39.5	7.2	7.2	7.3	24.8	26.2	26.2	32.6	32.9	33.4	12
6.3	7.0	7.0	12.7	12.6	12.9	4.3	4.3	4.3	11.0	11.3	11.5	15.8	15.8	15.8	13
96.5	100.2	100.3	331.3	331.2	331.4	80.1	84.0	83.9	256.9	270.4	271.1	153.2	163.4	163.6	14
5.0	5.1	5.1	25.5	25.7	25.6	4.6	4.8	4.8	16.5	16.7	16.7	19.0	20.0	20.0	15
17.1	17.9	18.0	95.6	94.5	94.8	24.6	25.1	25.2	72.3	75.0	75.3	93.7	95.3	96.0	16
3.2	3.1	3.2	16.0	17.4	17.2	4.0	4.3	4.3	14.4	14.6	14.7	11.6	11.7	11.7	17
2.4	2.4	2.4	12.4	12.8	12.7	2.3	2.3	2.3	7.6	7.7	7.7	11.1	11.3	11.4	18
31.0	34.6	34.8	127.6	129.8	130.3	25.6	27.1	27.0	96.3	103.4	104.9	125.1	128.7	129.1	19
24.5	28.1	28.3	95.1	97.7	97.9	21.0	22.2	22.0	66.0	70.7	71.6	90.3	91.9	91.9	20
8.9	8.9	8.8	40.0	40.7	40.6	7.6	8.0	8.0	39.4	44.6	39.7	36.3	37.6	37.2	21
2.3	2.4	2.4	11.9	12.3	12.3	-	-	-	11.1	11.3	11.3	-	-	-	22
.7	.7	.6	2.1	2.1	2.1	-	-	-	2.4	3.0	2.5	-	-	-	23
111.9	113.8	114.7	437.0	436.6	437.3	101.0	104.3	104.5	376.2	379.0	382.8	492.1	505.5	508.0	24
1.1	1.1	1.2	6.7	6.5	6.6	.9	1.0	1.0	3.5	3.7	3.7	5.0	5.2	5.2	25
2.7	2.8	2.8	12.1	11.8	11.8	3.4	3.5	3.5	10.4	11.0	11.1	10.1	10.4	10.3	26
5.0	4.9	5.1	27.5	27.8	28.2	4.8	5.0	5.1	26.9	26.7	27.9	40.7	42.0	42.5	27
19.3	19.0	19.1	68.6	68.2	68.1	14.3	14.5	14.7	53.5	53.5	53.7	81.2	82.4	82.5	28
26.8	28.8	28.5	98.5	96.8	96.9	26.2	26.5	26.5	106.2	109.6	110.3	117.1	118.0	118.3	29
1.4	1.6	1.6	8.5	8.1	8.3	1.3	1.3	1.3	5.8	6.0	6.1	15.3	15.6	16.0	30
18.7	19.5	19.5	78.8	72.5	72.3	23.4	26.8	26.9	56.7	58.4	59.1	72.4	74.8	75.2	31
10.1	10.0	10.0	26.2	25.9	25.6	6.1	6.3	6.2	19.6	19.4	19.8	15.6	16.0	16.0	32
84.8	88.8	(*)	372.6	387.6	(*)	87.9	93.2	(*)	285.8	305.2	(*)	320.2	333.4	(*)	33
48.1	52.6	(*)	178.1	183.2	(*)	52.3	54.5	(*)	139.8	148.2	(*)	116.6	122.0	(*)	34
7.8	7.7	(*)	35.3	35.9	(*)	8.0	7.9	(*)	28.4	28.7	(*)	22.6	23.7	(*)	35
6.4	6.4	(*)	33.0	33.2	(*)	7.0	7.2	(*)	30.4	30.7	(*)	32.8	33.5	(*)	36
42.5	42.9	42.8	129.7	131.9	132.0	21.2	21.7	21.7	94.3	95.9	97.1	120.3	123.3	124.2	37
9.7	9.9	10.0	27.6	27.3	27.6	5.0	5.1	5.1	19.9	20.2	20.3	19.6	21.1	21.0	38
10.1	10.0	9.9	23.8	23.8	23.8	4.0	3.9	3.9	15.4	15.4	15.7	17.3	17.9	17.8	39
2.7	2.6	2.6	12.6	12.5	12.5	2.0	2.1	2.1	9.1	9.1	9.2	9.9	10.2	10.2	40
3.5	3.6	3.7	15.9	16.0	15.9	2.6	2.6	2.6	13.1	13.2	13.2	8.0	8.0	8.2	41
89.1	91.5	91.8	434.0	451.0	459.7	88.7	93.6	94.1	345.9	365.4	368.2	312.7	316.4	316.1	42
4.4	4.8	4.8	26.2	27.5	28.0	5.0	5.3	5.3	19.9	20.6	20.9	16.1	17.8	17.4	43
2.6	2.6	2.6	12.7	13.3	13.6	1.5	1.6	1.6	9.5	9.6	9.7	11.3	11.3	11.0	44
5.1	6.0	5.8	19.5	20.3	20.6	2.4	2.4	2.4	14.2	14.4	14.5	10.3	10.7	10.9	45
2.2	2.2	2.0	11.6	11.7	12.0	1.3	1.4	1.4	8.2	8.6	8.7	6.6	6.9	7.2	46
1.3	1.4	1.3	8.3	8.3	8.5	1.0	1.0	1.0	7.6	8.1	8.3	6.7	6.8	6.7	47
2.2	2.4	2.4	11.3	11.8	11.9	1.1	1.1	1.1	9.3	9.8	9.9	6.7	6.2	6.5	48
5.9	6.3	6.3	34.5	35.2	35.6	11.6	12.7	12.8	30.2	32.5	32.6	56.3	58.2	57.7	49
33.4	34.7	34.5	146.4	151.5	152.3	37.4	39.3	39.3	135.7	144.1	145.2	78.3	78.8	78.7	50
2.1	2.0	2.1	13.3	13.1	13.3	2.3	2.3	2.4	11.0	11.5	11.4	8.3	9.0	8.9	51
15.9	16.8	17.1	43.2	46.0	45.9	7.0	7.5	7.5	26.6	30.7	31.1	39.7	42.7	42.7	52
2.7	2.9	2.9	10.1	11.4	11.0	1.5	1.6	1.6	5.2	5.4	5.3	5.0	5.4	5.5	53
4.1	4.3	4.0	6.6	7.5	7.5	1.5	1.6	1.5	4.0	3.6	3.7	7.8	7.4	7.5	54
2.1	2.4	2.4	7.2	7.7	7.7	1.4	1.4	1.4	6.0	6.4	6.1	13.7	13.5	13.4	55

¹⁶ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

¹⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

¹⁸ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

¹⁹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

²⁰ Total includes data for industry divisions not shown separately.

²¹ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

p = preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 ^P	May 1980 ^P	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 ^P	May 1980 ^P
	TOTAL PRIVATE ...	\$211.65	\$216.20	\$229.15	\$228.55	\$229.95	\$6.03	\$6.09	\$6.51	\$6.53	\$6.57
	MINING	363.60	361.66	366.24	388.25	387.34	8.54	8.45	8.92	9.05	9.05
	METAL MINING	372.54	366.02	413.25	415.66	-	9.03	9.06	9.53	10.04	-
10	Iron ores	407.28	355.85	444.74	418.37	-	9.32	9.47	10.44	10.33	-
101	Copper ores	385.48	379.39	429.42	434.09	-	9.20	9.12	10.20	10.46	-
102											
11, 12	COAL MINING	426.36	427.24	422.18	430.52	-	10.45	10.37	10.45	10.79	-
12	BITUMINOUS COAL AND LIGNITE MINING ...	428.63	428.48	422.99	431.72	-	10.48	10.40	10.47	10.82	-
13	OIL AND GAS EXTRACTION	335.92	331.58	378.64	375.87	-	7.74	7.64	8.34	8.39	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	372.12	359.26	395.38	397.70	-	8.86	8.72	9.62	9.70	-
138	Oil and gas field services	320.76	320.29	371.92	368.55	-	7.29	7.23	7.93	7.96	-
14	NONMETALLIC MINERALS, EXCEPT FUELS ...	302.17	310.52	313.92	319.01	-	6.76	6.78	7.20	7.30	-
142	Crushed and broken stone	289.01	306.54	305.06	315.50	-	6.48	6.55	6.84	6.98	-
	CONSTRUCTION	320.21	340.01	347.76	351.86	357.19	9.02	9.14	9.66	9.64	9.68
15	GENERAL BUILDING CONTRACTORS	293.51	307.66	318.41	324.16	-	8.47	8.57	9.02	9.03	-
152	Residential building construction	281.42	295.71	297.21	299.75	-	8.11	8.26	8.59	8.54	-
153	Operative builders	251.54	261.80	279.79	292.13	-	7.42	7.48	8.04	8.07	-
154	Nonresidential building construction	314.60	328.15	342.72	350.99	-	9.02	9.09	9.52	9.59	-
16	HEAVY CONSTRUCTION CONTRACTORS	313.96	346.63	347.38	348.47	-	8.35	8.58	8.75	8.69	-
161	Highway and street construction	296.40	340.13	311.24	328.03	-	7.60	8.06	7.96	8.16	-
162	Heavy construction, except highway	321.40	350.37	362.80	358.00	-	8.71	8.67	9.07	8.95	-
17	SPECIAL TRADE CONTRACTORS	336.61	355.26	362.56	366.68	-	9.59	9.68	10.30	10.30	-
171	Plumbing, heating, air conditioning	350.77	375.51	390.38	390.53	-	9.61	9.83	10.41	10.47	-
172	Painting, paper hanging, decorating	307.46	325.89	328.70	327.82	-	8.99	9.18	9.50	9.42	-
173	Electrical work	398.36	409.96	427.89	430.52	-	10.68	10.76	11.38	11.45	-
174	Masonry, stonework, and plastering	315.57	330.85	329.01	340.70	-	9.42	9.48	9.94	10.08	-
175	Carpentering and flooring	256.90	308.68	306.23	307.46	-	8.81	8.87	9.06	8.99	-
176	Roofing and sheet metal work	255.49	287.12	262.54	279.66	-	8.46	8.52	8.81	8.85	-
	MANUFACTURING ...	254.41	265.86	280.99	278.95	280.53	6.54	6.63	7.06	7.08	7.12
24, 25, 32-39	DURABLE GOODS	273.14	288.46	304.62	301.25	302.08	6.95	7.07	7.54	7.55	7.59
20-23, 26-31	NONDURABLE GOODS	225.38	231.08	245.07	246.52	249.10	5.90	5.91	6.30	6.37	6.42
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	230.69	236.41	243.59	232.99	238.35	5.90	5.97	6.36	6.28	6.39
241	Logging camps and logging contractors	301.68	304.98	314.04	319.79	-	7.72	7.84	8.33	8.46	-
242	Sawmills and planing mills	245.01	251.72	250.78	232.04	-	6.11	6.20	6.48	6.34	-
2421	Sawmills and planing mills, general	258.08	266.26	263.84	242.79	-	6.42	6.51	6.80	6.67	-
2426	Hardwood dimension and flooring	167.98	170.31	179.93	175.72	-	4.21	4.29	4.59	4.60	-
243	Millwork, plywood, and structural members	227.76	232.07	243.95	230.64	-	5.87	5.89	6.32	6.20	-
2431	Millwork	214.66	220.00	242.11	230.51	-	5.61	5.67	6.24	6.18	-
2434	Wood kitchen cabinets	202.20	208.19	211.60	214.81	-	5.45	5.45	5.75	5.79	-
2435	Hardwood veneer and plywood	185.50	186.36	202.00	189.20	-	4.72	4.73	5.05	4.94	-
2436	Softwood veneer and plywood	362.09	299.71	308.88	278.62	-	7.35	7.31	7.80	7.64	-
244	Wooden containers	166.50	169.45	165.33	180.56	-	4.37	4.39	4.69	4.88	-
245	Wood buildings and mobile homes	204.24	213.36	210.45	207.95	-	5.52	5.60	6.03	6.01	-
2451	Mobile homes	203.31	211.84	209.75	205.71	-	5.48	5.56	6.01	5.98	-
249	Miscellaneous wood products	193.74	193.91	212.40	207.38	-	4.88	4.86	5.31	5.25	-
25	FURNITURE AND FIXTURES	185.25	189.85	207.13	205.96	202.00	4.94	4.97	5.38	5.42	5.43
251	Household furniture	173.82	177.37	193.03	191.65	-	4.66	4.68	5.04	5.07	-
2511	Wood household furniture	164.11	167.14	180.34	181.34	-	4.33	4.33	4.66	4.71	-
2512	Upholstered household furniture	186.50	186.13	203.79	200.56	-	5.00	4.99	5.42	5.45	-
2514	Metal household furniture	177.71	184.73	201.37	198.01	-	4.79	4.90	5.15	5.17	-
2515	Mattresses and bedspreads	166.73	195.78	216.22	206.96	-	5.26	5.32	5.69	5.67	-
252	Office furniture	203.07	211.07	223.69	226.20	-	5.33	5.29	5.78	5.80	-
253	Public building and related furniture	210.65	213.84	233.04	233.44	-	5.36	5.40	5.87	5.94	-
254	Partitions and fixtures	219.11	230.57	254.02	250.75	-	5.89	6.02	6.53	6.53	-
259	Miscellaneous furniture and fixtures	198.28	204.22	230.44	223.71	-	5.33	5.36	5.97	6.03	-

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				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P
-	TOTAL PRIVATE	35.1	35.5	35.2	35.0	35.0	-	-	-	-	-
-	MINING	42.6	42.8	43.3	42.9	42.8	-	-	-	-	-
10	METAL MINING	41.3	40.4	41.7	41.4	-	-	-	-	-	
101	Iron ores	43.7	41.8	42.6	40.5	-	-	-	-	-	
102	Copper ores	41.9	41.6	42.1	41.5	-	-	-	-	-	
11, 12	COAL MINING	40.8	41.2	40.4	39.9	-	-	-	-	-	
12	BITUMINOUS COAL AND LIGNITE MINING	40.9	41.2	40.4	39.9	-	-	-	-	-	
13	OIL AND GAS EXTRACTION	43.4	43.4	45.4	44.8	-	-	-	-	-	
131, 2	Crude petroleum, natural gas, and natural gas liquids	42.0	41.2	41.1	41.0	-	-	-	-	-	
138	Oil and gas field services	44.0	44.3	46.9	46.3	-	-	-	-	-	
14	NONMETALLIC MINERALS, EXCEPT FUELS	44.7	45.8	43.6	43.7	-	-	-	-	-	
142	Crushed and broken stone	44.6	46.8	44.6	45.2	-	-	-	-	-	
-	CONSTRUCTION	35.5	37.2	36.0	36.5	36.9	-	-	-	-	
15	GENERAL BUILDING CONTRACTORS	34.7	35.9	35.3	35.9	-	-	-	-	-	
152	Residential building construction	34.7	35.8	34.6	35.1	-	-	-	-	-	
153	Operative builders	33.9	35.0	34.8	36.2	-	-	-	-	-	
154	Nonresidential building construction	34.9	36.1	36.0	36.6	-	-	-	-	-	
16	HEAVY CONSTRUCTION CONTRACTORS	37.6	40.4	39.7	40.1	-	-	-	-	-	
161	Highway and street construction	39.0	42.2	39.1	40.2	-	-	-	-	-	
162	Heavy construction, except highway	36.9	39.5	40.0	40.0	-	-	-	-	-	
17	SPECIAL TRADE CONTRACTORS	35.1	36.7	35.2	35.6	-	-	-	-	-	
171	Plumbing, heating, air conditioning	36.5	38.2	37.5	37.3	-	-	-	-	-	
172	Painting, paper hanging, decorating	34.2	35.5	34.6	34.8	-	-	-	-	-	
173	Electrical work	37.3	38.1	37.6	37.6	-	-	-	-	-	
174	Masonry, stonework, and plastering	33.5	34.9	33.1	33.8	-	-	-	-	-	
175	Carpentering and flooring	33.7	34.8	33.8	34.2	-	-	-	-	-	
176	Roofing and sheet metal work	30.2	33.7	29.8	31.6	-	-	-	-	-	
-	MANUFACTURING	38.9	40.1	39.8	39.4	39.4	2.5	3.3	3.0	2.7	
24, 25, 32-39	DURABLE GOODS	39.3	40.8	40.4	39.9	39.8	2.6	3.6	3.1	2.7	
20-23, 26-31	NONDURABLE GOODS	38.2	39.1	38.9	38.7	38.8	2.5	2.9	2.9	2.7	
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	39.1	39.6	38.3	37.1	37.3	3.2	3.4	2.9	2.3	
241	Logging camps and logging contractors	39.0	38.9	37.7	37.8	-	4.1	4.4	3.2	3.3	
242	Sawmills and planing mills	40.1	40.6	38.7	36.6	-	4.0	4.2	3.6	2.6	
2421	Sawmills and planing mills, general	40.2	40.9	38.8	36.4	-	4.4	4.5	3.9	2.7	
2426	Hardwood dimension and flooring	39.9	39.7	39.2	38.2	-	2.9	3.2	2.8	2.2	
243	Millwork, plywood, and structural members	38.8	39.4	38.6	37.2	-	2.7	3.0	2.4	1.8	
2431	Millwork	38.3	38.8	38.8	37.3	-	1.6	1.7	1.5	1.4	
2434	Wood kitchen cabinets	37.1	38.2	36.8	37.1	-	1.8	2.4	1.6	1.5	
2435	Hardwood veneer and plywood	39.3	39.4	40.0	38.3	-	3.3	3.5	3.6	2.6	
2436	Softwood veneer and plywood	41.1	41.0	39.6	36.6	-	4.7	4.8	4.1	2.3	
244	Wooden containers	38.1	38.6	37.9	37.0	-	2.9	3.0	2.7	2.0	
245	Wood buildings and mobile homes	37.0	38.1	34.9	34.6	-	1.5	2.0	1.1	1.0	
2451	Mobile homes	37.1	38.1	34.9	34.4	-	1.2	1.7	1.1	.9	
249	Miscellaneous wood products	39.7	39.9	40.0	39.5	-	3.2	3.3	3.2	2.6	
25	FURNITURE AND FIXTURES	37.5	38.2	38.5	38.0	37.2	1.6	2.0	2.0	1.8	
251	Household furniture	37.3	37.9	38.3	37.8	-	1.7	2.0	1.9	1.8	
2511	Wood household furniture	37.9	38.6	38.7	38.5	-	2.3	2.4	2.3	2.2	
2512	Upholstered household furniture	37.3	37.3	37.6	36.8	-	1.2	1.4	1.3	1.2	
2514	Metal household furniture	37.1	37.7	39.1	38.3	-	.9	1.7	2.0	1.6	
2515	Mattresses and bedsprings	35.5	36.8	38.0	36.5	-	1.6	2.2	2.3	1.8	
252	Office furniture	38.1	39.9	38.7	39.0	-	1.7	2.2	1.9	1.7	
253	Public building and related furniture	39.3	39.6	39.7	39.3	-	1.5	1.8	2.4	2.1	
254	Partitions and fixtures	37.2	38.3	38.9	38.4	-	1.2	2.0	2.6	2.1	
259	Miscellaneous furniture and fixtures	37.2	38.1	38.6	37.1	-	1.4	1.5	1.1	.8	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 p	May 1980 p	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 p	May 1980 p
32	STONE, CLAY, AND GLASS PRODUCTS	\$276.60	\$284.08	\$255.48	\$296.54	\$303.48	\$6.73	\$6.78	\$7.26	\$7.34	\$7.42
321	Flat glass	362.90	372.37	393.54	384.40	-	8.62	8.58	9.46	9.33	-
322	Glass and glassware, pressed or blown	292.44	289.48	314.98	314.03	-	7.15	7.13	7.72	7.93	-
3221	Glass containers	308.25	307.09	337.02	333.45	-	7.50	7.49	8.18	8.55	-
3229	Pressed and blown glass, nec	269.99	265.86	266.22	290.46	-	6.65	6.63	7.12	7.19	-
323	Products of purchased glass	250.04	246.00	256.88	254.52	-	6.33	6.15	6.39	6.46	-
324	Cement, hydraulic	410.83	408.53	437.47	429.35	-	9.51	9.59	10.15	10.15	-
325	Structural clay products	222.63	227.84	239.38	240.60	-	5.47	5.49	5.94	6.03	-
326	Pottery and related products	213.68	215.67	237.37	236.84	-	5.55	5.53	6.04	6.12	-
327	Concrete, gypsum, and plaster products	276.78	295.65	286.63	297.15	-	6.59	6.75	7.13	7.23	-
3271	Concrete block and brick	266.74	283.18	258.00	269.51	-	6.09	6.21	6.45	6.51	-
3272	Concrete products, nec	240.72	253.68	262.92	266.02	-	5.90	6.04	6.46	6.52	-
3273	Ready-mixed concrete	300.46	328.12	306.53	324.38	-	7.24	7.39	7.88	7.97	-
329	Misc. nonmetallic mineral products	271.63	279.39	300.35	295.39	-	6.63	6.70	7.22	7.24	-
3291	Abrasive products	256.61	266.02	293.04	285.29	-	6.48	6.52	7.13	7.15	-
3292	Asbestos products	265.59	284.56	307.52	304.14	-	6.69	6.89	7.27	7.40	-
33	PRIMARY METAL INDUSTRIES	371.56	365.56	364.62	386.92	378.90	8.92	8.83	9.45	9.53	9.52
331	Blast furnace and basic steel products	448.64	421.89	441.90	448.34	-	10.29	10.24	11.02	11.07	-
3312	Blast furnaces and steel mills	468.34	433.78	456.80	465.68	-	10.62	10.58	11.42	11.47	-
3317	Steel pipe and tubes	315.44	335.38	350.47	340.08	-	8.13	8.22	8.74	8.72	-
332	Iron and steel foundries	301.43	315.70	325.60	319.59	-	7.67	7.70	8.00	8.03	-
3321	Gray iron foundries	308.50	322.29	321.60	313.92	-	7.87	7.88	8.04	8.07	-
3322	Malleable iron foundries	310.34	327.62	340.56	336.88	-	8.04	8.17	8.71	8.75	-
3325	Steel foundries, nec	292.33	305.76	334.17	331.52	-	7.29	7.35	7.90	7.95	-
333	Primary nonferrous metals	402.38	382.47	428.64	435.08	-	9.49	9.15	10.23	10.31	-
3334	Primary aluminum	426.42	401.02	455.78	453.44	-	10.30	9.71	10.53	10.90	-
335	Nonferrous rolling and drawing	318.24	331.35	356.59	355.28	-	7.80	7.76	8.47	8.52	-
3351	Copper rolling and drawing	279.79	309.60	316.30	312.01	-	7.03	7.15	7.64	7.61	-
3353	Aluminum sheet, plate, and foil	451.56	417.53	436.65	442.23	-	9.93	9.71	10.25	10.43	-
3357	Nonferrous wire drawing and insulating	286.31	306.71	334.22	328.27	-	7.14	7.32	7.92	7.91	-
336	Nonferrous foundries	255.98	268.66	283.01	283.46	-	6.53	6.65	7.04	7.14	-
3361	Aluminum foundries	266.55	279.57	250.79	292.07	-	6.81	6.92	7.18	7.32	-
34	FABRICATED METAL PRODUCTS	256.86	275.54	253.13	291.45	291.27	6.62	6.77	7.22	7.25	7.30
341	Metal cans and shipping containers	366.72	381.49	415.22	415.29	-	8.69	8.69	9.48	9.46	-
3411	Metal cans	378.64	393.74	430.22	432.72	-	9.02	9.01	9.80	9.79	-
342	Cutlery, hand tools, and hardware	241.42	260.00	275.81	272.25	-	6.32	6.50	6.93	6.91	-
3423, 5	Hand and edge tools, and hand saws and blades	240.07	252.72	268.26	267.33	-	6.14	6.24	6.64	6.70	-
3429	Hardware, nec	245.34	269.68	284.20	279.30	-	6.56	6.81	7.25	7.18	-
343	Plumbing and heating, except electric	222.43	232.07	260.34	253.62	-	5.90	5.89	6.46	6.47	-
3432	Plumbing fittings and brass goods	215.60	234.52	257.91	257.45	-	5.77	5.72	6.26	6.31	-
3433	Heating equipment, except electric	212.21	219.82	242.74	240.03	-	5.72	5.80	6.24	6.30	-
344	Fabricated structural metal products	246.65	258.95	279.40	281.56	-	6.39	6.49	7.02	7.11	-
3441	Fabricated structural metal	270.36	281.80	298.82	299.63	-	6.81	6.89	7.36	7.38	-
3442	Metal doors, sash, and trim	194.16	206.98	219.26	219.41	-	5.15	5.28	5.71	5.82	-
3443	Fabricated plate work (boiler shops)	269.19	282.61	315.18	317.36	-	6.92	7.03	7.65	7.76	-
3444	Sheet metal work	247.68	260.96	275.34	279.24	-	6.45	6.59	7.06	7.16	-
3446	Architectural metal work	224.96	240.86	251.29	253.24	-	6.08	6.16	6.46	6.51	-
345	Screw machine products, bolts, etc.	256.88	273.49	286.96	279.89	-	6.25	6.42	6.80	6.86	-
3451	Screw machine products	238.21	251.22	261.04	257.45	-	5.81	6.01	6.25	6.31	-
3452	Bolts, nuts, rivets, and washers	275.63	295.99	313.90	303.07	-	6.69	6.82	7.30	7.41	-
346	Metal forgings and stampings	284.24	321.10	335.36	327.55	-	7.60	7.87	8.26	8.23	-
3462	Iron and steel forgings	296.48	324.23	365.71	369.72	-	8.19	8.51	9.12	9.22	-
3465	Automotive stampings	336.30	399.95	411.68	396.93	-	9.29	9.50	10.14	10.10	-
3469	Metal stampings, nec	228.34	243.19	260.65	258.15	-	5.84	5.59	6.42	6.47	-
347	Metal services, nec	211.53	219.69	239.09	237.96	-	5.41	5.47	5.86	5.89	-
3471	Plating and polishing	205.00	212.40	231.09	230.22	-	5.27	5.31	5.72	5.77	-
3479	Metal coating and allied services	226.12	237.86	256.46	252.95	-	5.71	5.83	6.15	6.11	-
348	Ordinance and accessories, nec	261.88	266.09	256.31	297.05	-	6.58	6.57	7.14	7.21	-
3483	Ammunition, exc. for small arms, nec	243.58	244.09	262.80	268.00	-	6.41	6.34	6.67	6.70	-
349	Misc. fabricated metal products	243.36	261.58	279.20	278.36	-	6.24	6.38	6.86	6.89	-
3494	Valves and pipe fittings	256.89	280.90	259.74	297.66	-	6.57	6.72	7.24	7.26	-
3496	Misc. fabricated wire products	215.95	228.57	243.81	241.59	-	5.58	5.70	6.08	6.07	-
35	MACHINERY, EXCEPT ELECTRICAL	266.13	302.33	323.65	321.81	323.49	7.10	7.25	7.78	7.83	7.89
351	Engines and turbines	332.80	352.70	379.63	379.75	-	8.32	8.54	9.42	9.47	-
3511	Turbines and turbine generator sets	306.92	315.50	341.94	352.15	-	7.77	7.79	8.57	8.61	-
3519	Internal combustion engines, nec	340.45	363.96	350.67	387.65	-	8.49	8.77	9.67	9.74	-
352	Farm and garden machinery	320.66	333.85	342.37	340.68	-	7.84	7.93	8.31	8.35	-
3523	Farm machinery and equipment	334.51	348.08	354.85	353.50	-	8.08	8.19	8.53	8.58	-
353	Construction and related machinery	300.65	321.98	342.35	343.51	-	7.65	7.74	8.35	8.44	-

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				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 p	May 1980 p	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P
		<p>32 STONE, CLAY, AND GLASS PRODUCTS 41.1 41.9 40.7 40.4 40.9 4.3 4.8 3.8 3.5 -</p> <p>321 Flat glass 42.1 43.4 41.6 41.2 - 4.3 5.3 4.4 3.4 -</p> <p>322 Glass and glassware, pressed or blown 40.9 40.6 40.8 39.6 - 4.5 4.1 3.5 3.5 -</p> <p>3221 Glass containers 41.1 41.0 41.2 39.0 - 5.0 4.4 4.3 3.7 -</p> <p>3229 Pressed and blown glass, nec 40.6 40.1 40.2 40.4 - 3.9 3.8 3.4 3.3 -</p> <p>323 Products of purchased glass 39.5 40.0 40.2 39.4 - 3.3 3.8 2.5 2.0 -</p> <p>324 Cement, hydraulic 43.2 42.6 43.1 42.3 - 4.4 4.2 4.5 4.0 -</p> <p>326 Structural clay products 40.7 41.5 40.3 39.9 - 4.1 4.1 3.3 2.9 -</p> <p>326 Pottery and related products 38.5 39.0 39.3 38.7 - 2.2 2.4 2.5 2.3 -</p> <p>327 Concrete, gypsum, and plaster products 42.0 43.8 40.2 41.1 - 5.5 6.7 4.5 4.5 -</p> <p>3271 Concrete block and brick 43.8 45.6 40.0 41.4 - 6.2 7.5 4.6 4.3 -</p> <p>3272 Concrete products, nec 40.8 42.0 40.7 40.8 - 4.2 5.2 4.0 3.8 -</p> <p>3273 Ready-mixed concrete 41.5 44.4 38.9 40.7 - 5.7 7.3 4.4 4.8 -</p> <p>329 Misc. nonmetallic mineral products 41.0 41.7 41.6 40.8 - 3.7 4.2 3.7 3.2 -</p> <p>3291 Abrasive products 39.6 40.8 41.1 39.9 - 2.6 3.4 3.6 3.1 -</p> <p>3292 Asbestos products 39.7 41.3 42.3 41.1 - 2.2 2.8 3.2 2.6 -</p> <p>33 PRIMARY METAL INDUSTRIES 41.7 41.4 40.7 40.6 39.8 3.6 3.9 3.3 3.0 -</p> <p>331 Blast furnace and basic steel products 43.6 41.2 40.1 40.5 - 3.7 3.4 2.7 2.4 -</p> <p>3312 Blast furnaces and steel mills 44.1 41.0 40.0 40.6 - 3.8 3.3 2.6 2.3 -</p> <p>3317 Steel pipe and tubes 38.8 40.8 40.1 39.0 - 2.2 3.6 2.6 2.2 -</p> <p>332 Iron and steel foundries 39.3 41.0 40.7 39.8 - 3.3 4.1 3.3 3.0 -</p> <p>3321 Gray iron foundries 39.2 40.9 40.0 38.9 - 3.5 4.0 3.0 2.7 -</p> <p>3322 Malleable iron foundries 38.6 40.1 39.1 38.5 - 2.6 3.9 2.6 2.4 -</p> <p>3325 Steel foundries, nec 40.1 41.6 42.3 41.7 - 3.0 4.5 4.1 3.7 -</p> <p>333 Primary nonferrous metals 42.4 41.8 41.9 42.2 - 4.6 3.7 3.9 3.8 -</p> <p>3334 Primary aluminum 41.4 41.3 41.7 41.6 - 5.0 3.8 3.9 3.9 -</p> <p>335 Nonferrous rolling and drawing 40.8 42.7 41.2 41.7 - 4.2 5.2 4.6 4.3 -</p> <p>3351 Copper rolling and drawing 39.8 43.3 41.4 41.0 - 4.0 5.3 4.2 3.6 -</p> <p>3353 Aluminum sheet, plate and foil 43.5 43.0 42.6 42.4 - 8.3 6.7 6.0 6.1 -</p> <p>3357 Nonferrous wire drawing and insulating 40.1 41.9 42.2 41.5 - 2.8 4.5 4.5 3.9 -</p> <p>336 Nonferrous foundries 39.2 40.4 40.2 39.7 - 2.4 3.4 2.8 2.5 -</p> <p>3361 Aluminum foundries 39.2 40.4 40.5 39.9 - 2.5 3.6 3.1 2.6 -</p> <p>34 FABRICATED METAL PRODUCTS 38.8 40.7 40.6 40.2 39.9 2.1 3.5 3.1 2.7 -</p> <p>341 Metal cans and shipping containers 42.2 43.9 43.8 43.9 - 4.1 4.9 4.9 4.6 -</p> <p>3411 Metal cans 42.0 43.7 43.9 44.2 - 3.9 4.4 4.4 4.4 -</p> <p>342 Cutlery, hand tools, and hardware 38.2 40.0 39.8 39.4 - 1.5 2.9 2.4 2.0 -</p> <p>3423, 5 Hand and edge tools, and hand saws and blades 39.1 40.5 40.4 39.9 - 2.1 3.2 2.7 2.3 -</p> <p>3429 Hardware, nec 37.4 39.6 39.2 38.9 - 1.1 2.8 2.1 1.6 -</p> <p>343 Plumbing and heating, except electric 37.7 39.4 40.3 39.2 - 1.4 2.7 3.1 2.2 -</p> <p>3432 Plumbing fittings and brass goods 37.4 41.0 41.2 40.8 - 1.6 3.3 3.6 2.7 -</p> <p>3433 Heating equipment, except electric 37.1 37.9 38.9 38.1 - .9 1.7 2.3 1.9 -</p> <p>344 Fabricated structural metal products 38.6 39.9 39.8 39.6 - 1.8 2.7 2.6 2.3 -</p> <p>3441 Fabricated structural metal 39.7 40.9 40.6 40.6 - 2.7 3.7 3.4 3.1 -</p> <p>3442 Metal doors, sash, and trim 37.7 39.2 38.4 37.7 - 1.3 2.3 1.8 1.4 -</p> <p>3443 Fabricated plate work (boiler shops) 38.9 40.2 41.2 40.9 - 1.4 2.4 2.9 2.7 -</p> <p>3444 Sheet metal work 38.4 39.6 39.0 39.0 - 2.1 2.9 2.5 2.3 -</p> <p>3446 Architectural metal work 37.0 39.1 38.9 38.9 - 1.1 1.8 1.9 2.1 -</p> <p>345 Screw machine products, bolts, etc. 41.1 42.6 42.2 40.8 - 3.5 5.0 4.1 3.6 -</p> <p>3451 Screw machine products 41.0 41.8 41.5 40.8 - 4.0 5.1 4.4 3.9 -</p> <p>3452 Bolts, nuts, rivets, and washers 41.2 43.4 43.0 40.9 - 3.0 4.8 3.8 3.3 -</p> <p>346 Metal forgings and stampings 37.4 40.8 40.6 39.8 - 2.2 4.5 3.4 3.0 -</p> <p>3462 Iron and steel forgings 36.2 38.1 40.1 40.1 - 2.2 4.3 3.7 3.7 -</p> <p>3465 Automotive stampings 36.2 42.1 40.6 39.3 - 2.3 5.7 3.1 2.4 -</p> <p>3469 Metal stampings, nec 39.1 40.6 40.6 39.9 - 2.0 3.4 3.3 2.8 -</p> <p>347 Metal services, nec 39.1 40.2 40.8 40.4 - 2.8 3.6 3.8 3.5 -</p> <p>3471 Plating and polishing 38.9 40.0 40.4 39.9 - 2.7 3.5 3.5 3.2 -</p> <p>3479 Metal coating and allied services 39.6 40.8 41.7 41.4 - 3.1 3.8 4.5 4.0 -</p> <p>348 Ordnance and accessories, nec 39.8 40.5 41.5 41.2 - 1.9 2.6 2.7 2.4 -</p> <p>3483 Ammunition, exc. for small arms, nec 38.0 38.5 40.0 40.0 - 1.5 1.5 1.5 1.5 -</p> <p>349 Misc. fabricated metal products 39.0 41.0 40.7 40.4 - 1.9 3.2 2.9 2.5 -</p> <p>3494 Valves and pipe fittings 39.1 41.6 41.4 41.0 - 1.9 3.8 3.5 2.9 -</p> <p>3496 Misc. fabricated wire products 38.7 40.1 40.1 39.8 - 1.7 3.2 2.4 2.1 -</p> <p>35 MACHINERY, EXCEPT ELECTRICAL 40.3 41.7 41.6 41.1 41.0 2.7 3.5 3.8 3.4 -</p> <p>351 Engines and turbines 40.0 41.3 40.3 40.1 - 2.4 3.7 2.9 2.7 -</p> <p>3511 Turbines and turbine generator sets 39.5 40.5 39.9 40.9 - 3.5 3.5 3.7 3.9 -</p> <p>3519 Internal combustion engines, nec 40.1 41.5 40.4 39.8 - 2.0 3.7 2.6 2.3 -</p> <p>352 Farm and garden machinery 40.9 42.1 41.2 40.8 - 3.5 4.9 3.8 3.0 -</p> <p>3523 Farm machinery and equipment 41.4 42.5 41.6 41.2 - 3.8 5.2 4.0 3.3 -</p> <p>353 Construction and related machinery 39.3 41.6 41.0 40.7 - 1.9 3.1 3.3 3.0 -</p>									

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				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 ^p	May 1980 ^p	Apr. 1979	May 1979	Mar. 1980	Apr. ^p 1980	May ^p 1980
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery	\$327.02	\$345.95	\$370.27	\$366.21	—	\$8.45	\$8.50	\$9.28	\$9.39	—
3532	Mining machinery	305.66	320.02	357.81	351.07	—	7.68	7.73	8.36	8.28	—
3533	Oil field machinery	281.40	314.70	332.21	345.90	—	7.00	7.12	7.78	7.97	—
3535	Conveyers and conveying equipment	254.87	271.41	301.67	301.10	—	6.42	6.54	7.34	7.38	—
3537	Industrial trucks and tractors	271.07	280.59	296.21	296.74	—	6.88	7.05	7.48	7.57	—
354	Metalworking machinery	308.70	325.65	350.98	344.59	—	7.35	7.47	8.50	8.07	—
3541	Machine tools, metal cutting types	317.37	333.32	366.74	362.50	—	7.45	7.61	8.26	8.22	—
3542	Machine tools, metal forming types	310.31	326.32	361.44	344.03	—	7.55	7.66	8.29	8.31	—
3544	Special dies, tools, jigs, and fixtures	339.55	352.44	383.21	375.41	—	7.86	7.92	8.67	8.69	—
3545	Machine tool accessories	276.62	298.51	322.46	318.65	—	6.78	6.91	7.43	7.48	—
3546	Power driven hand tools	223.69	249.28	251.07	247.43	—	5.81	6.14	6.23	6.28	—
355	Special industry machinery	266.50	282.63	310.38	307.52	—	6.74	6.86	7.39	7.41	—
3551	Food products machinery	285.68	299.94	321.77	319.93	—	7.16	7.28	7.81	7.88	—
3552	Textile machinery	222.96	229.14	248.87	241.80	—	5.56	5.63	6.07	6.03	—
3555	Printing trades machinery	269.70	288.84	327.35	325.60	—	6.88	6.96	7.56	7.63	—
356	General industrial machinery	276.50	298.60	320.02	318.20	—	7.00	7.23	7.73	7.78	—
3561	Pumps and pumping equipment	277.20	293.15	317.65	309.50	—	7.00	7.15	7.71	7.68	—
3562	Ball and roller bearings	283.71	312.49	332.59	327.98	—	7.04	7.37	7.90	7.98	—
3563	Air and gas compressors	276.71	302.50	338.13	344.32	—	7.15	7.36	8.07	8.14	—
3564	Blowers and fans	247.16	263.46	289.64	288.46	—	6.37	6.57	7.03	7.07	—
3566	Speed changers, drives, and gears	308.25	345.40	363.32	366.72	—	7.50	7.65	8.63	8.69	—
3568	Power transmission equipment, nec	263.53	287.82	301.73	298.49	—	6.74	7.02	7.45	7.37	—
357	Office and computing machines	240.78	244.20	272.39	266.67	—	5.96	6.00	6.47	6.52	—
3573	Electronic computing equipment	241.57	245.40	274.33	268.86	—	5.95	6.00	6.47	6.51	—
358	Refrigeration and service machinery	254.64	263.81	280.68	279.74	—	6.35	6.53	7.07	7.10	—
3585	Refrigeration and heating equipment	263.16	271.73	286.31	287.10	—	6.45	6.66	7.23	7.25	—
359	Misc. machinery, except electrical	276.89	295.40	315.82	316.77	—	6.82	7.05	7.61	7.67	—
3592	Carburetors, pistons, rings, valves	298.38	340.55	346.28	355.25	—	7.73	8.07	8.55	8.75	—
3599	Machinery, except electrical, nec	272.65	285.91	310.25	309.67	—	6.65	6.84	7.44	7.48	—
36	ELECTRIC AND ELECTRONIC EQUIPMENT	237.07	249.64	271.20	268.88	\$268.60	6.11	6.21	6.76	6.79	\$6.80
361	Electric distributing equipment	242.48	252.32	271.48	271.72	—	6.17	6.23	6.77	6.81	—
3612	Transformers	233.05	241.35	266.38	266.53	—	5.90	5.93	6.61	6.63	—
3613	Switchgear and switchboard apparatus	250.88	262.20	275.71	276.01	—	6.40	6.49	6.91	6.97	—
362	Electrical industrial apparatus	242.89	259.26	280.42	277.49	—	6.26	6.37	6.89	6.92	—
3621	Motors and generators	243.07	260.96	280.98	275.77	—	6.33	6.46	6.87	6.86	—
3622	Industrial controls	231.55	251.31	276.29	276.61	—	6.03	6.19	6.85	6.95	—
363	Household appliances	232.61	248.85	267.05	257.87	—	6.17	6.30	6.83	6.84	—
3632	Household refrigerators and freezers	258.61	269.00	277.13	253.93	—	6.77	6.81	7.49	7.58	—
3633	Household laundry equipment	222.27	290.21	319.60	324.23	—	7.17	7.31	8.01	8.25	—
3634	Electric housewares and fans	202.01	205.80	216.12	214.62	—	5.22	5.25	5.57	5.56	—
364	Electric lighting and wiring equipment	218.48	232.58	249.94	247.27	—	5.66	5.80	6.28	6.26	—
3641	Electric lamps	242.35	251.29	276.58	280.49	—	6.12	6.22	6.88	6.96	—
3643	Current-carrying wiring devices	264.34	217.34	243.21	240.60	—	5.28	5.42	6.02	6.00	—
3644	Noncurrent-carrying wiring devices	224.23	238.00	256.31	255.06	—	5.87	5.98	6.44	6.49	—
3645	Residential lighting fixtures	160.89	177.49	177.97	184.24	—	4.42	4.61	4.81	4.90	—
365	Radio and TV receiving equipment	207.66	224.03	247.79	241.16	—	5.79	5.88	6.37	6.38	—
3651	Radio and TV receiving sets	212.89	229.07	255.81	250.42	—	5.93	6.06	6.61	6.59	—
366	Communication equipment	280.90	289.98	320.21	315.93	—	7.04	7.09	7.81	7.82	—
3661	Telephone and telegraph apparatus	279.03	291.72	331.25	322.80	—	7.10	7.15	8.04	8.01	—
3662	Radio and TV communication equipment	282.40	288.35	311.30	311.04	—	6.99	7.05	7.63	7.68	—
367	Electronic components and accessories	201.11	208.28	234.02	237.20	—	5.17	5.22	5.88	5.93	—
3671-3	Electronic tubes	270.35	273.41	310.73	324.51	—	6.61	6.62	7.26	7.46	—
3674	Semiconductors and related devices	226.86	238.05	271.06	270.40	—	5.70	5.75	6.66	6.66	—
3679	Electronic components, nec	167.60	193.95	217.88	220.02	—	4.86	4.91	5.53	5.57	—
369	Misc. electrical equipment and supplies	271.29	296.70	299.05	297.94	—	7.01	7.25	7.59	7.62	—
3691	Storage batteries	259.18	287.39	285.34	285.01	—	7.14	7.35	7.45	7.56	—
3694	Engine electrical equipment	301.66	340.31	337.26	336.01	—	7.80	8.24	8.67	8.66	—
37	TRANSPORTATION EQUIPMENT	313.05	356.10	364.00	357.30	358.09	8.26	8.56	9.01	9.00	9.02
371	Motor vehicles and equipment	323.54	385.56	378.18	366.68	—	8.84	9.18	9.55	9.48	—
3711	Motor vehicles and car bodies	325.42	417.64	401.95	394.99	—	9.46	9.85	10.28	10.34	—
3713	Truck and bus bodies	254.56	290.73	305.36	297.86	—	6.88	7.25	7.87	7.88	—
3714	Motor vehicle parts and accessories	335.72	375.48	373.58	361.30	—	8.72	8.94	9.27	9.17	—
3715	Truck trailers	218.67	232.20	250.14	257.72	—	5.91	6.00	6.60	6.80	—
372	Aircraft and parts	321.94	339.75	372.63	368.87	—	7.91	8.07	8.83	8.91	—
3721	Aircraft	334.15	349.44	378.64	376.99	—	8.19	8.32	9.08	9.24	—
3724	Aircraft engines and engine parts	321.19	346.11	366.62	376.33	—	8.07	8.30	9.14	9.09	—
3728	Aircraft equipment, nec	296.61	310.73	345.17	343.31	—	7.13	7.26	7.99	8.04	—
373	Ship and boat building and repairing	260.54	283.69	321.15	318.39	—	6.94	7.11	7.91	7.94	—
3731	Shipbuilding and repairing	280.12	303.51	336.98	332.05	—	7.45	7.55	8.30	8.26	—
3732	Boat building and repairing	212.81	225.62	263.90	266.11	—	5.63	5.80	6.50	6.72	—
374	Railroad equipment	351.20	359.96	(*)	379.25	—	8.78	8.91	(*)	9.65	—

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				
		Apr. 1979	May 1979	Mar. 1980	Apr. ^p 1980	May ^p 1980	Apr. 1979	May 1979	Mar. 1980	Apr. ^p 1980	May ^p 1980
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery	38.7	40.7	39.9	39.0	-	1.6	2.6	2.2	1.8	-
3532	Mining machinery	39.8	41.4	42.8	42.4	-	1.9	3.1	4.3	3.5	-
3533	Oil field machinery	40.2	44.2	42.7	43.4	-	2.9	4.3	5.2	5.5	-
3535	Conveyers and conveying equipment	39.7	41.5	41.1	40.8	-	2.5	3.4	3.0	2.6	-
3537	Industrial trucks and tractors	39.4	39.8	39.6	39.2	-	1.4	2.2	2.4	2.1	-
354	Metalworking machinery	42.0	43.6	43.6	42.7	-	4.3	5.7	5.6	5.0	-
3541	Machine tools, metal cutting types	42.6	43.8	44.4	44.1	-	4.7	5.9	6.6	6.1	-
3542	Machine tools, metal forming types	41.1	42.6	43.6	41.4	-	4.8	6.3	5.5	4.7	-
3544	Special dies, tools, jigs, and fixtures	43.2	44.5	44.2	43.2	-	5.3	6.4	6.4	5.7	-
3545	Machine tool accessories	40.8	43.2	43.4	42.6	-	3.6	5.3	5.0	4.7	-
3546	Power driven hand tools	38.5	40.6	40.3	39.4	-	.9	3.2	2.9	2.2	-
355	Special industry machinery	39.6	41.2	42.0	41.5	-	2.3	3.5	3.8	3.5	-
3551	Food products machinery	39.9	41.2	41.2	40.6	-	2.1	3.1	2.9	2.7	-
3552	Textile machinery	40.1	40.7	41.0	40.1	-	2.2	2.8	3.0	2.0	-
3555	Printing trades machinery	39.2	41.5	43.3	42.7	-	2.3	3.7	4.6	4.6	-
356	General industrial machinery	39.5	41.3	41.4	40.9	-	2.4	4.0	3.8	3.4	-
3561	Pumps and pumping equipment	39.6	41.0	41.2	40.3	-	2.2	3.5	3.4	2.7	-
3562	Ball and roller bearings	40.3	42.4	42.1	41.1	-	2.7	4.8	4.9	4.4	-
3563	Air and gas compressors	38.7	41.1	41.9	42.3	-	1.6	3.2	4.8	4.7	-
3564	Blowers and fans	38.8	40.1	41.2	40.8	-	2.4	3.8	3.7	3.3	-
3566	Speed changers, drives, and gears	41.1	44.0	42.1	42.2	-	4.1	5.8	4.4	4.2	-
3568	Power transmission equipment, nec	39.1	41.0	40.5	40.5	-	1.9	3.9	2.8	2.5	-
357	Office and computing machines	40.4	40.7	42.1	40.9	-	2.2	2.6	3.0	2.4	-
3573	Electronic computing equipment	40.6	40.9	42.4	41.3	-	2.3	2.7	3.0	2.6	-
358	Refrigeration and service machinery	40.1	40.4	39.7	39.4	-	1.4	2.5	2.1	1.8	-
3585	Refrigeration and heating equipment	40.8	40.8	39.6	39.6	-	1.6	2.9	2.1	2.0	-
359	Misc. machinery, except electrical	40.6	41.9	41.5	41.3	-	3.2	4.6	4.2	4.0	-
3592	Carburetors, pistons, rings, valves	38.6	42.2	40.5	40.6	-	1.7	4.4	2.4	2.3	-
3599	Machinery, except electrical, nec	41.0	41.8	41.7	41.4	-	3.5	4.6	4.5	4.3	-
ELECTRIC AND ELECTRONIC EQUIPMENT											
36	Electric distributing equipment	38.8	40.2	40.0	39.6	39.5	1.8	2.7	2.5	2.2	-
361	Transformers	39.3	40.5	40.1	39.9	-	2.0	2.8	2.5	2.3	-
3612	Switchgear and switchboard apparatus	39.5	40.7	40.3	40.2	-	2.6	3.3	2.9	2.6	-
3613	Electrical industrial apparatus	39.2	40.4	39.9	39.6	-	1.5	2.4	2.2	2.1	-
362	Motors and generators	38.8	40.7	40.7	40.1	-	2.0	3.1	2.8	2.3	-
3621	Industrial controls	38.4	40.4	40.9	40.2	-	2.1	3.1	2.9	2.3	-
3622	Household appliances	38.4	40.6	40.1	39.8	-	1.2	3.0	2.5	2.2	-
363	Household refrigerators and freezers	37.7	39.5	39.1	37.7	-	1.4	2.0	2.1	1.7	-
3632	Household laundry equipment	38.2	39.5	37.0	33.5	-	1.1	1.9	1.8	1.5	-
3633	Electric housewares and fans	31.0	39.7	39.9	39.3	-	.3	1.3	1.3	1.0	-
3634	Electric lighting and wiring equipment	38.7	39.2	38.8	38.6	-	1.2	1.9	1.8	1.6	-
364	Electric lamps	38.6	40.1	39.8	39.5	-	1.6	2.7	2.6	2.1	-
3641	Current-carrying wiring devices	39.6	40.4	40.2	40.3	-	1.5	2.1	2.5	2.4	-
3643	Noncurrent-carrying wiring devices	38.7	40.1	40.4	40.1	-	1.6	2.9	2.8	2.3	-
3644	Residential lighting fixtures	38.2	39.8	39.8	39.3	-	1.3	2.4	2.4	1.6	-
3645	Radio and TV receiving equipment	36.4	38.5	37.0	37.6	-	.8	1.8	1.3	1.1	-
365	Radio and TV receiving sets	35.9	38.1	38.9	37.8	-	1.1	1.8	1.5	1.5	-
3651	Communication equipment	35.9	37.8	38.7	38.0	-	.9	1.5	1.9	1.6	-
366	Telephone and telegraph apparatus	39.9	40.9	41.0	40.4	-	2.0	2.4	2.8	2.2	-
3661	Radio and TV communication equipment	39.3	40.8	41.2	40.3	-	1.9	2.9	3.2	2.4	-
3662	Electronic components and accessories	40.4	40.9	40.8	40.5	-	2.0	2.1	2.5	2.0	-
367	Electronic tubes	38.9	39.9	39.8	40.0	-	2.1	2.7	2.8	2.7	-
3671-3	Semiconductors and related devices	40.9	41.3	42.8	43.5	-	1.8	1.9	2.9	2.7	-
3674	Electronic components, nec	39.8	41.4	40.7	40.6	-	2.9	3.6	3.5	3.5	-
3679	Misc. electrical equipment and supplies	38.6	39.5	39.4	39.5	-	2.1	2.6	2.7	2.6	-
369	Storage batteries	38.7	40.7	39.4	39.1	-	1.7	3.3	1.7	1.5	-
3691	Engine electrical equipment	36.3	39.1	38.3	37.7	-	1.5	2.8	1.1	.7	-
3694		38.7	41.3	38.9	38.8	-	1.5	4.0	1.4	1.2	-
TRANSPORTATION EQUIPMENT											
37	Motor vehicles and equipment	37.9	41.6	40.4	39.7	39.7	2.7	4.9	3.1	2.6	-
371	Motor vehicles and car bodies	36.6	42.0	39.6	38.7	-	2.6	5.8	2.6	2.0	-
3711	Truck and bus bodies	34.4	42.4	39.1	38.2	-	2.7	7.0	2.5	2.0	-
3713	Motor vehicle parts and accessories	37.0	40.1	38.8	37.8	-	1.8	4.0	2.4	1.7	-
3714	Truck trailers	38.5	42.0	40.3	39.4	-	2.6	5.0	2.9	2.2	-
3715	Aircraft and parts	37.0	38.7	37.9	37.9	-	1.4	2.6	1.5	1.3	-
372	Aircraft	40.7	42.1	42.2	41.4	-	3.2	4.4	4.2	3.9	-
3721	Aircraft engines and engine parts	40.8	42.0	41.7	40.8	-	3.0	4.0	3.3	3.1	-
3724	Aircraft equipment, nec	39.8	41.7	42.3	41.4	-	2.6	4.7	5.0	4.4	-
3728	Ship and boat building and repairing	41.6	42.8	43.2	42.7	-	4.1	5.0	5.3	4.9	-
373	Ship building and repairing	37.6	39.9	40.6	40.1	-	2.1	3.0	3.3	3.1	-
3731	Boat building and repairing	37.6	40.2	40.6	40.2	-	2.2	3.2	3.4	3.2	-
3732	Railroad equipment	37.8	38.9	40.6	39.6	-	1.9	2.6	3.1	3.1	-
374		40.0	40.4	(*)	39.3	-	4.0	4.1	(*)	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				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P
	TRANSPORTATION EQUIPMENT—Continued										
376	Guided missiles, space vehicles, parts	\$324.72	\$334.08	\$369.56	\$365.89	—	\$7.92	\$8.05	\$8.97	\$8.99	—
3761	Guided missiles and space vehicles	322.81	330.08	370.46	368.83	—	8.05	8.15	9.08	9.04	—
379	Miscellaneous transportation equipment	227.91	243.47	253.55	263.47	—	6.21	6.51	6.62	6.97	—
3792	Travel trailers and campers	191.20	206.97	217.86	223.92	—	5.51	5.83	5.92	6.22	—
	INSTRUMENTS AND RELATED PRODUCTS	241.20	249.29	268.77	267.85	\$271.76	6.03	6.11	6.62	6.63	\$6.71
381	Engineering and scientific instruments	254.70	262.75	289.26	288.69	—	6.32	6.44	6.92	6.89	—
382	Measuring and controlling devices	243.41	256.06	240.28	277.84	—	6.04	6.17	6.77	6.76	—
3822	Environmental controls	223.49	230.88	253.99	252.28	—	5.79	5.86	6.21	6.26	—
3823	Process control instruments	243.82	264.50	265.52	285.98	—	6.05	6.18	6.64	6.62	—
3825	Instruments to measure electricity	261.66	272.85	309.32	302.82	—	6.29	6.42	7.40	7.35	—
383	Optical instruments and lenses	290.17	290.59	289.54	286.34	—	6.55	6.53	6.96	7.07	—
384	Medical instruments and supplies	156.70	207.24	222.39	222.22	—	5.19	5.26	5.63	5.64	—
3841	Surgical and medical instruments	192.27	203.52	216.95	216.41	—	5.02	5.05	5.37	5.37	—
3842	Surgical appliances and supplies	201.32	210.68	226.79	226.97	—	5.34	5.43	5.83	5.88	—
385	Ophthalmic goods	184.60	187.01	206.16	205.80	—	4.77	4.87	5.18	5.21	—
386	Photographic equipment and supplies	326.28	326.76	346.28	349.57	—	7.75	7.78	8.55	8.61	—
387	Watches, clocks, and watchcases	178.69	181.50	155.45	199.18	—	4.69	4.69	5.13	5.16	—
	MISCELLANEOUS MANUFACTURING INDUSTRIES	186.50	192.50	208.50	208.44	210.05	4.96	5.00	5.36	5.40	5.47
391	Jewelry, silverware, and plated ware	187.86	195.32	212.98	216.01	—	5.05	5.14	5.59	5.64	—
3911	Jewelry, precious metal	180.77	187.36	208.83	210.52	—	4.98	5.05	5.51	5.54	—
393	Musical instruments	161.58	190.03	207.48	206.27	—	4.84	4.86	5.32	5.33	—
394	Toys and sporting goods	172.79	175.18	189.24	190.96	—	4.62	4.61	4.89	4.96	—
3942, 4	Dolls, games, toys, and children's vehicles	167.48	170.10	180.68	184.73	—	4.49	4.50	4.87	4.90	—
3949	Sporting and athletic goods, nec	176.50	179.92	195.51	195.89	—	4.73	4.71	4.90	5.01	—
395	Pens, pencils, office and art supplies	157.12	207.08	224.22	219.14	—	5.12	5.19	5.55	5.52	—
396	Costume jewelry and notions	155.86	163.40	175.86	170.85	—	4.27	4.30	4.64	4.63	—
3961	Costume jewelry	144.89	151.25	164.65	159.12	—	4.07	4.11	4.45	4.42	—
399	Miscellaneous manufactures	208.41	215.90	231.87	233.24	—	5.47	5.55	5.90	5.95	—
3993	Signs and advertising displays	222.92	227.76	243.71	246.52	—	5.79	5.84	6.33	6.37	—
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	241.41	246.31	260.91	263.35	270.75	6.19	6.22	6.69	6.77	6.82
201	Meat products	243.57	248.61	258.91	262.89	—	6.31	6.31	6.76	6.90	—
2011	Meat packing plants	309.26	312.12	333.33	342.29	—	7.58	7.65	8.21	8.41	—
2013	Sausages and other prepared meats	287.52	292.66	296.81	300.29	—	7.17	7.28	7.77	7.82	—
2016	Poultry dressing plants	140.75	152.66	154.01	153.74	—	4.01	4.06	4.29	4.38	—
202	Dairy products	254.62	257.30	274.55	275.63	—	6.18	6.23	6.68	6.69	—
2022	Cheese, natural and processed	233.38	233.24	249.74	248.68	—	5.82	5.89	6.42	6.36	—
2026	Fluid milk	263.33	267.74	285.34	289.65	—	6.33	6.39	6.81	6.88	—
203	Preserved fruits and vegetables	158.44	207.82	217.93	215.82	—	5.32	5.37	5.69	5.74	—
2032	Canned specialties	234.42	247.86	223.76	227.94	—	5.98	6.09	6.43	6.55	—
2033	Canned fruits and vegetables	201.65	210.37	225.61	221.92	—	5.45	5.45	5.86	5.84	—
2037	Frozen fruits and vegetables	184.37	194.54	208.89	205.36	—	5.01	5.04	5.37	5.39	—
204	Grain mill products	276.72	288.15	315.44	315.00	—	6.62	6.78	7.37	7.50	—
2041	Flour and other grain mill products	256.42	305.47	327.06	322.58	—	6.83	6.88	7.45	7.59	—
2048	Prepared feeds, nec	231.01	236.85	255.73	258.26	—	5.41	5.47	6.06	6.12	—
205	Bakery products	242.57	247.94	267.96	266.57	—	6.35	6.44	6.96	6.96	—
2051	Bread, cake, and related products	243.72	250.51	267.52	266.76	—	6.38	6.49	7.04	7.02	—
2052	Cookies and crackers	239.27	240.91	268.93	265.88	—	6.28	6.29	6.74	6.80	—
206	Sugar and confectionery products	223.57	234.30	252.72	253.06	—	6.01	6.07	6.48	6.59	—
2061-3	Cane and beet sugar	265.36	283.58	326.78	320.32	—	7.29	7.29	8.15	8.32	—
2065	Confectionery products	199.18	204.06	218.86	222.12	—	5.34	5.37	5.67	5.83	—
207	Fats and oils	275.63	281.00	258.59	299.17	—	6.41	6.55	6.88	6.99	—
208	Beverages	303.75	293.93	318.76	324.36	—	7.50	7.33	7.89	7.95	—
2082	Malt beverages	443.70	407.13	460.71	464.81	—	10.20	9.93	10.64	10.71	—
2086	Bottled and canned soft drinks	213.25	218.50	229.71	235.22	—	5.44	5.49	5.86	5.97	—
209	Misc. foods and kindred products	202.77	207.65	206.97	214.26	—	5.35	5.45	5.83	5.87	—
	TOBACCO MANUFACTURES	255.68	265.65	266.90	297.56	291.83	6.80	6.83	7.61	7.81	7.70
211	Cigarettes	296.40	308.51	322.38	339.85	—	7.80	7.85	8.77	8.92	—
	TEXTILE MILL PRODUCTS	172.93	181.25	201.64	196.21	197.29	4.48	4.52	4.93	4.93	4.92
221	Weaving mills, cotton	182.56	192.82	215.22	210.53	—	4.61	4.68	5.10	5.16	—
222	Weaving mills, synthetics	184.54	196.24	214.76	203.78	—	4.66	4.74	5.15	5.12	—
223	Weaving and finishing mills, wool	180.45	187.33	204.11	204.22	—	4.58	4.66	5.09	5.08	—
224	Narrow fabric mills	182.60	169.70	183.42	180.24	—	4.18	4.19	4.54	4.54	—
225	Knitting mills	153.61	161.03	180.96	178.39	—	4.22	4.26	4.64	4.67	—

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				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P
		TRANSPORTATION EQUIPMENT—Continued									
376	Guided missiles, space vehicles, parts	41.0	41.5	41.2	40.7	-	3.5	4.0	4.1	3.5	-
3761	Guided missiles and space vehicles	40.1	40.5	40.8	40.8	-	2.6	3.1	3.4	3.0	-
379	Miscellaneous transportation equipment	36.7	37.4	38.3	37.8	-	.7	1.2	1.0	1.4	-
3792	Travel trailers and campers	34.7	35.5	36.8	36.0	-	.5	.7	.7	1.3	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	40.0	40.8	40.6	40.4	40.5	1.9	2.3	2.5	2.2	-
381	Measuring and controlling devices	40.3	40.8	41.8	41.9	-	2.2	2.8	3.2	2.8	-
382	Environmental controls	40.3	41.5	41.4	41.1	-	1.5	2.4	2.6	2.1	-
3822	Process control instruments	38.6	39.4	40.9	40.3	-	.9	1.3	2.0	1.6	-
3823	Instruments to measure electricity	40.3	42.8	43.0	43.2	-	1.7	3.2	3.8	3.6	-
3825	Optical instruments and lenses	41.6	42.5	41.8	41.2	-	1.6	2.0	2.2	1.7	-
383	Medical instruments and supplies	44.3	44.5	41.6	40.5	-	3.8	3.9	3.6	2.7	-
384	Surgical and medical instruments	37.9	39.4	39.5	39.4	-	1.3	1.9	2.2	2.0	-
3841	Surgical appliances and supplies	38.3	40.3	40.4	40.3	-	1.8	2.3	2.5	2.2	-
3842	Ophthalmic goods	37.7	38.8	38.9	38.6	-	1.0	1.6	2.2	2.0	-
385	Photographic equipment and supplies	38.7	38.4	39.8	39.5	-	1.6	1.6	2.1	2.0	-
386	Watches, clocks, and watchcases	42.1	42.0	40.5	40.6	-	3.0	2.9	2.7	2.7	-
387	.....	38.1	38.7	38.1	38.6	-	1.1	1.5	1.4	1.4	-
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	37.6	38.5	38.9	38.6	38.4	1.5	2.0	2.2	1.9	-
391	Jewelry, precious metal	37.2	38.0	38.1	38.3	-	1.5	2.0	2.4	2.4	-
3911	Musical instruments	36.3	37.1	37.9	38.0	-	1.5	1.9	2.8	2.9	-
393	Toys and sporting goods	37.6	39.1	39.0	38.7	-	.9	1.3	1.7	1.2	-
394	Dolls, games, toys, and children's vehicles	37.4	38.0	38.7	38.5	-	1.2	1.6	1.6	1.4	-
3942.4	Sporting and athletic goods, nec	37.3	37.8	37.1	37.7	-	1.2	1.6	1.2	1.2	-
3949	Pens, pencils, office and art supplies	37.4	38.2	39.9	39.1	-	1.1	1.7	2.0	1.5	-
395	Costume jewelry and notions	38.5	39.9	40.4	39.7	-	1.5	2.6	2.9	2.1	-
396	Costume jewelry	36.5	38.0	37.9	36.9	-	1.6	2.0	2.3	1.7	-
3961	Miscellaneous manufactures	35.6	36.8	37.0	36.0	-	1.4	1.7	1.7	1.1	-
399	Signs and advertising displays	38.1	38.9	39.3	39.2	-	1.8	2.2	2.4	2.2	-
3993	.....	38.5	39.0	38.5	38.7	-	1.9	2.4	2.3	2.1	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	39.0	39.6	39.0	38.9	39.7	3.3	3.6	3.4	3.4	-
201	Meat packing plants	38.6	39.4	38.3	38.1	-	3.6	4.1	3.4	3.5	-
2011	Sausages and other prepared meats	40.8	40.8	40.6	40.7	-	4.4	4.7	4.5	5.0	-
2013	Poultry dressing plants	40.1	40.2	38.2	38.4	-	4.2	4.1	2.7	2.9	-
2016	Dairy products	35.1	37.6	35.9	35.1	-	2.4	3.4	2.3	2.1	-
202	Cheese, natural and processed	41.2	41.3	41.1	41.2	-	3.9	4.0	3.9	3.8	-
2022	Fluid milk	40.1	39.6	38.9	39.1	-	3.3	3.3	3.2	3.1	-
2026	Preserved fruits and vegetables	41.6	41.9	41.9	42.1	-	4.1	4.1	4.1	4.2	-
203	Canned specialties	37.3	38.7	38.3	37.6	-	2.3	2.7	3.0	2.8	-
2032	Canned fruits and vegetables	39.2	40.7	34.8	34.8	-	3.6	3.7	3.6	3.7	-
2033	Frozen fruits and vegetables	37.0	38.6	38.5	38.0	-	1.9	2.6	2.8	2.8	-
2037	Grain mill products	36.8	38.6	38.9	38.1	-	2.5	2.8	3.8	3.2	-
204	Flour and other grain mill products	41.8	42.5	42.8	42.0	-	4.9	5.3	5.6	5.3	-
2041	Prepared feeds, nec	43.4	44.4	43.9	42.5	-	5.9	6.3	5.4	5.3	-
2048	Bakery products	42.7	43.3	42.2	42.2	-	5.4	5.7	5.5	5.8	-
205	Bread, cake, and related products	38.2	38.5	38.5	38.3	-	3.1	3.4	3.1	3.1	-
2051	Cookies and crackers	38.2	38.6	38.0	38.0	-	3.6	3.9	3.3	3.5	-
2052	Sugar and confectionery products	38.1	38.3	39.9	39.1	-	1.4	1.8	2.6	2.1	-
206	Cane and beet sugar	37.2	38.6	39.0	38.4	-	1.8	2.3	1.7	1.7	-
2061-3	Confectionery products	36.4	38.9	39.9	38.5	-	3.0	2.9	.8	.9	-
2065	Fats and oils	37.3	38.0	38.6	38.1	-	1.4	2.0	2.1	1.6	-
207	Beverages	43.0	42.9	43.4	42.8	-	5.2	5.2	5.4	5.0	-
208	Malt beverages	40.5	40.1	40.4	40.8	-	4.2	3.6	3.7	3.6	-
2082	Bottled and canned soft drinks	43.5	41.0	43.3	43.4	-	7.3	4.7	5.6	5.4	-
2086	Misc. foods and kindred products	39.2	39.8	39.2	39.4	-	3.1	3.7	3.3	3.2	-
209	.....	37.9	38.1	35.5	36.5	-	2.7	3.2	2.5	2.7	-
TOBACCO MANUFACTURES											
21	Cigarettes	37.6	38.9	37.7	38.1	37.9	.5	.9	1.2	1.8	-
211	.....	38.0	39.3	37.9	38.1	-	.3	.7	1.2	2.1	-
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	38.6	40.1	40.9	39.8	40.1	2.3	3.3	3.8	3.2	-
221	Weaving mills, synthetics	39.6	41.2	42.2	40.8	-	2.6	4.0	4.6	4.2	-
222	Weaving and finishing mills, wool	39.6	41.4	41.7	39.8	-	2.7	3.9	3.9	2.7	-
223	Narrow fabric mills	39.4	40.2	40.1	40.2	-	2.8	3.4	3.3	2.9	-
224	Knitting mills	38.9	40.5	40.4	39.7	-	1.8	2.7	3.2	2.6	-
225	.....	36.4	37.8	39.0	38.2	-	1.7	2.4	2.9	2.4	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings					
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 p	May 1980 p	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 p	May 1980 p	
	TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	\$ 142.56	\$ 154.54	\$ 164.69	\$ 158.56	-	\$4.05	\$4.11	\$4.38	\$4.38	-	
2252	Hosiery, nec	140.49	146.77	162.63	158.48	-	3.98	4.01	4.36	4.33	-	
2253	Knit outerwear mills	146.91	154.71	175.10	175.13	-	4.15	4.17	4.56	4.67	-	
2254	Knit underwear mills	140.24	145.48	169.50	167.26	-	4.03	4.03	4.52	4.57	-	
2257	Circular knit fabric mills	184.00	186.52	218.01	212.34	-	4.67	4.71	5.07	5.08	-	
226	Textile finishing, except wool	167.94	193.66	219.56	215.48	-	4.77	4.77	5.24	5.23	-	
2261	Finishing plants, cotton	164.99	193.12	224.39	220.42	-	4.78	4.84	5.33	5.35	-	
2262	Finishing plants, synthetics	202.21	208.82	225.60	220.71	-	5.03	4.96	5.41	5.37	-	
227	Floor covering mills	174.56	190.76	201.80	197.21	-	4.58	4.63	5.02	4.98	-	
228	Yarn and thread mills	163.44	168.82	191.27	185.90	-	4.18	4.21	4.62	4.59	-	
2281	Yarn mills, except wool	163.46	169.68	194.46	188.09	-	4.17	4.20	4.63	4.61	-	
2282	Throwing and winding mills	162.76	162.37	173.16	172.82	-	4.11	4.09	4.44	4.42	-	
229	Miscellaneous textile goods	193.25	204.85	221.90	214.65	-	4.88	4.96	5.36	5.30	-	
23	APPAREL AND OTHER TEXTILE PRODUCTS	142.04	147.42	159.40	157.79	\$156.73	4.19	4.20	4.49	4.47	\$4.44	
231	Men's and boys' suits and coats	173.57	178.62	186.10	190.99	-	5.09	5.06	5.41	5.36	-	
232	Men's and boys' furnishings	132.40	137.45	151.32	151.32	-	3.86	3.85	4.18	4.18	-	
2321	Men's and boys' shirts and nightwear	128.28	133.53	144.59	145.71	-	3.74	3.73	4.05	4.07	-	
2327	Men's and boys' separate trousers	129.75	137.16	150.50	150.58	-	3.92	3.93	4.30	4.29	-	
2328	Men's and boys' work clothing	135.58	140.60	152.93	152.93	-	3.83	3.80	4.10	4.10	-	
233	Women's and misses' outerwear	133.12	135.96	152.66	151.31	-	4.16	4.12	4.45	4.49	-	
2331	Women's and misses' blouses and waists	129.42	134.41	145.43	145.78	-	3.91	3.93	4.24	4.25	-	
2335	Women's and misses' dresses	131.09	131.25	150.15	147.61	-	4.27	4.18	4.55	4.57	-	
2337	Women's and misses' suits and coats	136.22	148.74	163.45	162.48	-	4.38	4.44	4.85	4.85	-	
2339	Women's and misses' outerwear, nec	135.74	137.20	154.26	153.82	-	4.04	4.00	4.37	4.37	-	
234	Women's and children's undergarments	131.03	134.46	147.60	144.73	-	3.82	3.82	4.10	4.10	-	
2341	Women's and children's underwear	127.91	131.25	147.02	144.23	-	3.74	3.75	4.05	4.04	-	
2342	Brassieres and allied garments	143.79	147.65	149.39	148.04	-	4.12	4.09	4.33	4.38	-	
236	Children's outerwear	132.24	136.84	145.44	145.38	-	3.80	3.78	4.12	4.13	-	
2361	Children's dresses and blouses	132.33	133.93	140.07	139.54	-	3.77	3.71	4.06	4.08	-	
238	Misc. apparel and accessories	141.45	149.33	157.35	158.95	-	4.03	4.08	4.42	4.44	-	
239	Misc. fabricated textile products	174.47	186.09	189.00	180.05	-	4.78	4.91	5.00	4.84	-	
2391	Curtains and draperies	132.49	138.01	146.15	142.56	-	3.66	3.73	3.95	3.96	-	
2392	House furnishings, nec	149.85	157.44	171.44	162.36	-	4.05	4.10	4.43	4.40	-	
2396	Automotive and apparel trimmings	278.53	315.20	293.04	274.16	-	7.61	7.88	7.92	7.35	-	
26	PAPER AND ALLIED PRODUCTS	287.87	295.10	319.70	321.56	316.58	6.92	6.96	7.54	7.62	7.61	
261, 2, 6	Paper and pulp mills	360.59	361.70	392.45	403.59	-	7.96	8.02	8.76	8.87	-	
262	Paper mills, except building paper	363.65	363.20	392.37	406.56	-	7.94	8.00	8.70	8.80	-	
263	Paperboard mills	363.32	355.78	388.49	398.17	-	8.22	8.16	8.89	9.07	-	
264	Misc. converted paper products	241.96	253.56	274.03	269.74	-	6.11	6.20	6.70	6.71	-	
2641	Paper coating and glazing	288.91	306.75	313.34	299.15	-	6.83	6.94	7.39	7.39	-	
2642	Envelopes	224.62	231.64	243.79	245.74	-	5.73	5.82	6.11	6.19	-	
2643	Bags, except textile bags	228.31	241.26	257.18	257.28	-	5.78	5.87	6.35	6.40	-	
265	Paperboard containers and boxes	242.70	255.63	276.30	273.50	-	6.16	6.25	6.69	6.72	-	
2651	Folding paperboard boxes	244.22	260.53	279.75	280.57	-	6.23	6.37	6.79	6.81	-	
2653	Corrugated and solid fiber boxes	256.46	268.79	290.37	286.47	-	6.46	6.54	6.93	6.97	-	
2654	Sanitary food containers	221.36	237.63	260.07	260.40	-	5.72	5.81	6.39	6.51	-	
27	PRINTING AND PUBLISHING	247.30	254.76	271.56	268.64	271.95	6.72	6.83	7.30	7.30	7.41	
271	Newspapers	243.62	252.45	249.42	252.50	-	7.15	7.36	7.49	7.56	-	
272	Periodicals	230.89	228.90	244.61	244.28	-	6.19	6.22	6.91	6.92	-	
273	Books	227.56	234.21	248.30	243.92	-	5.88	5.99	6.50	6.47	-	
2731	Book publishing	221.13	223.74	236.63	235.38	-	5.57	5.65	6.26	6.26	-	
2732	Book printing	235.75	246.40	261.71	254.39	-	6.27	6.40	6.78	6.73	-	
274	Miscellaneous publishing	207.35	212.42	222.99	224.28	-	6.01	5.95	6.16	6.23	-	
275	Commercial printing	260.19	267.78	252.60	286.52	-	6.92	7.01	7.60	7.58	-	
2751	Commercial printing, letterpress	242.26	248.25	266.21	264.83	-	6.53	6.55	7.08	7.10	-	
2752	Commercial printing, lithographic	270.56	278.40	306.54	296.80	-	7.12	7.25	7.84	7.79	-	
276	Manifold business forms	252.70	269.28	298.07	294.03	-	6.43	6.60	7.27	7.26	-	
278	Blankbooks and bookbinding	199.64	203.18	220.35	221.73	-	5.24	5.25	5.65	5.70	-	
279	Printing trade services	325.60	329.08	354.55	350.99	-	8.80	8.87	9.48	9.41	-	
28	CHEMICALS AND ALLIED PRODUCTS	314.25	312.25	334.46	337.38	337.41	7.50	7.47	8.04	8.11	8.15	
281	Industrial inorganic chemicals	346.46	336.94	363.13	361.32	-	8.21	8.08	8.75	8.77	-	
2819	Industrial inorganic chemicals, nec	342.37	335.74	367.28	364.08	-	8.23	8.09	8.85	8.88	-	
282	Plastics materials and synthetics	317.82	307.33	331.85	337.35	-	7.34	7.30	7.92	8.09	-	
2821	Plastics materials and resins	348.19	342.40	370.21	368.01	-	8.06	8.00	8.67	8.70	-	
2824	Organic fibers, noncellulosic	300.40	288.15	312.76	323.59	-	6.89	6.91	7.54	7.76	-	
283	Drugs	272.43	273.36	367.50	309.48	-	6.76	6.80	7.50	7.53	-	
2834	Pharmaceutical preparations	261.49	265.07	251.60	292.82	-	6.57	6.66	7.20	7.23	-	

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				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	35.2	37.6	37.6	36.2	-	1.3	2.7	2.1	1.7	-
2252	Hosiery, nec	35.3	36.6	37.3	36.6	-	1.2	1.7	1.9	1.3	-
2253	Knit outerwear mills	35.4	37.1	38.4	37.5	-	1.3	1.8	2.7	2.2	-
2254	Knit underwear mills	34.8	36.1	37.5	36.6	-	.7	1.1	1.7	1.7	-
2257	Circular knit fabric mills	39.4	39.6	43.0	41.8	-	3.9	4.2	5.5	4.3	-
228	Textile finishing, except wool	39.4	40.6	41.9	41.2	-	2.1	3.2	4.1	3.6	-
2261	Finishing plants, cotton	38.7	39.9	42.1	41.2	-	1.4	2.7	4.0	3.7	-
2262	Finishing plants, synthetics	40.2	42.1	41.7	41.1	-	2.7	4.1	3.8	3.6	-
227	Floor covering mills	38.2	41.2	40.2	39.6	-	2.5	4.2	3.6	3.5	-
228	Yarn and thread mills	39.1	40.1	41.4	40.5	-	2.6	3.4	4.2	3.8	-
2281	Yarn mills, except wool	39.2	40.4	42.0	40.8	-	2.7	3.7	4.5	4.0	-
2282	Throwing and winding mills	39.6	39.7	39.0	39.1	-	3.2	3.4	3.4	3.3	-
229	Miscellaneous textile goods	39.6	41.3	41.4	40.5	-	2.5	3.5	3.4	2.9	-
APPAREL AND OTHER TEXTILE PRODUCTS											
23	Men's and boys' suits and coats	33.9	35.1	35.5	35.3	35.3	.6	1.0	1.1	1.0	-
231	Men's and boys' suits and coats	34.1	35.3	34.4	35.5	-	.3	.6	.7	.5	-
232	Men's and boys' furnishings	34.3	35.7	36.2	36.2	-	.5	.8	1.2	1.0	-
2321	Men's and boys' shirts and nightwear	34.3	35.8	35.7	35.8	-	.5	.8	1.1	1.0	-
2327	Men's and boys' separate trousers	33.1	34.9	35.0	35.1	-	.3	.6	1.0	.8	-
2328	Men's and boys' work clothing	35.4	37.0	37.3	37.3	-	.7	1.1	1.4	1.3	-
233	Women's and misses' outerwear	32.0	33.0	34.0	33.7	-	.6	.8	1.1	1.0	-
2331	Women's and misses' blouses and waists	33.1	34.2	34.3	34.3	-	.5	.5	1.0	.9	-
2335	Women's and misses' dresses	30.7	31.4	33.0	32.3	-	.7	.8	1.0	.8	-
2337	Women's and misses' suits and coats	31.1	33.5	33.7	33.5	-	.4	.8	.8	.6	-
2339	Women's and misses' outerwear, nec	33.6	34.3	35.3	35.2	-	.7	.9	1.5	1.3	-
234	Women's and children's undergarments	34.3	35.2	36.0	35.3	-	.5	.7	1.0	.8	-
2341	Women's and children's underwear	34.2	35.0	36.3	35.7	-	.5	.7	1.0	.7	-
2342	Brasieres and allied garments	34.9	36.1	34.5	33.8	-	.5	.8	1.2	1.1	-
236	Children's outerwear	34.8	36.2	35.3	35.2	-	.7	1.1	1.3	1.0	-
2361	Children's dresses and blouses	35.1	36.1	34.5	34.2	-	1.0	1.2	1.1	.8	-
238	Misc. apparel and accessories	35.1	36.6	35.6	35.8	-	.7	1.2	1.1	1.2	-
239	Misc. fabricated textile products	36.5	37.9	37.8	37.2	-	1.0	1.9	1.4	1.3	-
2391	Curtains and draperies	36.2	37.0	37.0	36.0	-	.4	1.0	.9	.6	-
2392	House furnishings, nec	37.0	38.4	38.7	36.9	-	1.0	1.9	1.7	1.5	-
2396	Automotive and apparel trimmings	36.6	40.0	37.0	37.3	-	1.5	3.6	1.4	1.0	-
PAPER AND ALLIED PRODUCTS											
26	Paper and pulp mills	41.6	42.4	42.4	42.2	41.6	4.0	4.5	4.2	4.2	-
261, 2, 6	Paper mills, except building paper	45.3	45.1	44.8	45.5	-	6.5	6.4	6.5	6.8	-
262	Paper mills, except building paper	45.8	45.4	45.1	46.2	-	6.5	6.5	6.5	7.1	-
263	Paperboard mills	44.2	43.6	43.7	43.9	-	6.9	7.2	6.6	7.0	-
264	Misc. converted paper products	39.6	40.9	40.9	40.2	-	2.4	3.2	3.1	2.8	-
2641	Paper coating and glazing	42.3	44.2	42.4	40.7	-	3.6	4.9	3.6	3.2	-
2642	Envelopes	39.2	39.8	39.9	39.7	-	2.1	2.7	2.8	2.6	-
2643	Bags, except textile bags	39.5	41.1	40.5	40.2	-	2.4	3.1	2.8	2.6	-
265	Paperboard containers and boxes	39.4	40.9	41.3	40.7	-	2.5	3.2	2.3	2.1	-
2651	Folding paperboard boxes	39.2	40.9	41.2	41.2	-	1.9	2.9	3.3	3.2	-
2653	Corrugated and solid fiber boxes	39.7	41.1	41.9	41.1	-	2.9	3.6	1.4	1.2	-
2654	Sanitary food containers	38.7	40.9	40.7	40.0	-	2.3	3.1	2.9	3.1	-
PRINTING AND PUBLISHING											
27	Newspapers	36.8	37.3	37.2	36.8	36.7	2.3	2.6	2.6	2.3	-
271	Newspapers	34.1	34.3	33.3	33.4	-	1.8	2.1	1.7	1.7	-
272	Periodicals	37.3	36.8	35.4	35.3	-	2.0	1.8	2.0	1.7	-
273	Books	38.7	39.1	38.2	37.7	-	3.2	3.7	2.8	2.6	-
2731	Book publishing	39.7	39.6	37.8	37.6	-	2.7	2.7	1.8	1.6	-
2732	Book printing	37.6	38.5	38.6	37.8	-	3.7	4.8	4.1	3.7	-
274	Miscellaneous publishing	34.5	35.7	36.2	36.0	-	2.0	2.0	1.7	1.3	-
275	Commercial printing	37.6	38.2	38.5	37.8	-	2.6	2.9	3.2	2.6	-
2751	Commercial printing, letterpress	37.1	37.9	37.6	37.3	-	2.2	2.5	2.4	2.1	-
2752	Commercial printing, lithographic	38.0	38.4	39.1	38.1	-	2.9	3.1	3.7	2.8	-
276	Manifold business forms	39.3	40.8	41.0	40.5	-	1.9	2.8	3.5	3.2	-
278	Blankbooks and bookbinding	38.1	38.7	39.0	38.9	-	1.6	1.8	2.3	2.0	-
279	Printing trade service	37.0	37.1	37.4	37.3	-	2.5	2.7	3.0	3.0	-
CHEMICALS AND ALLIED PRODUCTS											
28	Industrial inorganic chemicals	41.9	41.8	41.6	41.6	41.4	3.5	3.4	3.4	3.3	-
281	Industrial inorganic chemicals	42.2	41.7	41.5	41.2	-	4.5	3.6	3.3	3.2	-
2819	Industrial inorganic chemicals, nec	41.6	41.5	41.5	41.0	-	4.1	3.1	3.0	3.1	-
282	Plastics materials and synthetics	43.3	42.1	41.9	41.7	-	3.7	3.4	3.2	3.0	-
2821	Plastics materials and resins	43.2	42.8	42.7	42.3	-	4.5	4.3	4.3	4.0	-
2824	Organic fibers, noncellulosic	43.6	41.7	41.4	41.7	-	3.2	2.7	2.1	2.2	-
283	Drugs	40.3	40.2	41.0	41.1	-	2.2	2.3	3.1	3.1	-
2834	Pharmaceutical preparations	39.8	39.8	40.5	40.5	-	2.0	2.1	3.1	3.1	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 ^p	May 1980 ^p	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 ^p	May 1980 ^p
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$274.70	\$288.86	\$297.82	\$297.60	—	\$7.08	\$7.15	\$7.39	\$7.44	—
2841	Soap and other detergents	374.54	400.03	415.78	409.22	—	5.18	5.26	5.76	5.79	—
2844	Toilet preparations	210.90	220.99	225.62	227.95	—	5.70	5.74	5.80	5.83	—
2842, 3	Polishing, sanitation, and finishing preparations	252.20	260.00	274.11	273.53	—	6.45	6.50	6.87	6.96	—
286	Paints and allied products	270.40	285.02	291.37	286.24	—	6.66	6.77	7.23	7.21	—
286	Industrial organic chemicals	400.03	391.13	407.45	417.63	—	9.03	8.93	9.41	9.47	—
2865	Cyclic crudes and intermediates	359.07	352.30	370.60	374.05	—	8.37	8.27	8.72	8.76	—
2861, 9	Gum, wood, and industrial organic chemicals, nec	415.30	406.23	421.61	433.96	—	9.27	9.17	9.67	9.73	—
287	Agricultural chemicals	305.81	301.86	338.61	338.34	—	7.03	7.02	7.82	7.76	—
289	Miscellaneous chemical products	264.82	288.15	309.34	312.07	—	6.93	6.91	7.49	7.63	—
	PETROLEUM AND COAL PRODUCTS	414.42	410.34	367.21	411.31	\$430.78	9.44	9.39	9.32	9.84	\$10.16
291	Petroleum refining	451.72	440.08	402.95	462.51	—	10.22	10.14	10.66	10.96	—
295	Paving and roofing materials	304.41	327.07	305.28	301.99	—	6.95	7.22	7.20	7.42	—
	RUBBER AND MISC. PLASTICS PRODUCTS	229.31	238.95	250.80	250.51	247.11	5.82	5.90	6.27	6.31	6.32
301	Tires and inner tubes	344.04	346.52	366.28	364.10	—	8.29	8.27	9.18	9.36	—
302	Rubber and plastics footwear	146.57	153.44	174.94	176.11	—	4.06	4.07	4.44	4.37	—
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	231.27	246.82	275.64	278.39	—	5.93	6.02	6.61	6.79	—
306	Fabricated rubber products, nec	215.67	224.07	237.37	237.94	—	5.53	5.56	6.04	6.07	—
307	Miscellaneous plastics products	208.01	219.78	233.38	232.03	—	5.32	5.44	5.82	5.83	—
	LEATHER AND LEATHER PRODUCTS	147.55	152.15	164.53	165.80	166.63	4.18	4.18	4.52	4.53	4.57
311	Leather tanning and finishing	204.88	209.34	240.59	244.42	—	5.42	5.48	5.97	6.05	—
314	Footwear, except rubber	141.75	147.02	158.04	159.07	—	4.05	4.05	4.39	4.37	—
3143	Men's footwear, except athletic	153.61	158.67	173.07	172.41	—	4.22	4.24	4.64	4.61	—
3144	Women's footwear, except athletic	130.32	136.54	146.93	148.75	—	3.89	3.89	4.21	4.19	—
316	Luggage	146.20	156.56	169.44	177.02	—	4.25	4.41	4.80	4.89	—
317	Handbags and personal leather goods	142.36	146.29	154.98	153.51	—	4.01	4.03	4.20	4.30	—
	TRANSPORTATION AND PUBLIC UTILITIES	307.32	314.42	341.28	342.30	341.73	7.88	7.94	8.64	8.71	8.74
	RAILROAD TRANSPORTATION:										
4011	Class I railroads	361.50	368.51	405.77	(*)	—	8.71	8.59	9.57	(*)	—
	LOCAL AND INTERURBAN PASSENGER TRANSIT	199.99	202.30	206.75	212.50	—	5.78	5.78	6.19	6.25	—
411	Local and suburban transportation	297.82	287.32	272.74	277.60	—	6.91	6.94	6.94	6.94	—
413	Intercity highway transportation	342.10	323.47	337.21	343.00	—	8.51	8.58	8.86	9.00	—
	TRUCKING AND WAREHOUSING	254.20	327.55	346.14	349.85	—	7.93	8.23	8.63	9.04	—
421, 3	Trucking and trucking terminals	298.56	333.96	353.70	356.81	—	8.08	8.37	9.00	9.22	—
422	Public warehousing	218.08	223.18	238.51	241.54	—	5.80	5.92	6.26	6.39	—
46	PIPE LINES, EXCEPT NATURAL GAS	358.13	393.46	440.77	460.15	—	9.64	9.55	10.57	10.93	—
	COMMUNICATION	258.98	297.04	329.11	327.06	—	7.55	7.52	8.25	8.28	—
481	Telephone communication	308.63	305.29	341.25	336.71	—	7.74	7.69	8.51	8.46	—
4817	Switchboard operating employees	228.60	213.14	215.99	220.00	—	6.55	6.42	6.99	6.94	—
4818	Line construction employees	413.16	412.88	435.46	427.70	—	9.39	9.32	10.02	10.04	—
483	Radio and television broadcasting	255.94	257.34	270.65	275.94	—	6.70	6.79	7.16	7.30	—
	ELECTRIC, GAS, AND SANITARY SERVICES	334.51	335.34	358.15	360.71	—	8.08	8.10	8.63	8.65	—
491	Electric services	341.46	342.36	373.51	374.45	—	8.13	8.21	8.83	8.79	—
492	Gas production and distribution	304.64	307.09	324.01	331.70	—	7.64	7.62	8.06	8.17	—
493	Combination utility services	371.23	367.84	384.40	387.39	—	8.86	8.80	9.33	9.38	—
495	Sanitary services	266.67	276.78	279.60	284.41	—	6.52	6.59	6.77	6.92	—
	WHOLESALE AND RETAIL TRADE	162.50	162.00	172.80	171.72	172.90	5.00	5.00	5.40	5.40	5.42
50, 51	WHOLESALE TRADE	243.18	244.68	261.89	262.66	264.88	6.30	6.29	6.82	6.84	6.88
	WHOLESALE TRADE-DURABLE GOODS	245.07	247.20	263.55	263.93	—	6.30	6.29	6.81	6.82	—
501	Motor vehicles and automotive equipment	226.53	229.49	238.64	241.04	—	5.93	5.93	6.28	6.31	—
502	Furniture and home furnishings	217.93	221.78	230.89	231.88	—	5.89	5.93	6.19	6.20	—
503	Lumber and construction materials	246.41	251.37	257.80	262.65	—	6.27	6.30	6.82	6.93	—
504	Sporting goods, toys, and hobby goods	239.09	241.23	258.75	258.43	—	6.41	6.45	6.90	6.91	—

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				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	38.8	40.4	40.3	40.0	-	2.4	3.0	2.9	2.6	-
2841	Soap and other detergents	40.8	43.2	42.6	41.8	-	4.0	4.6	4.3	3.8	-
2844	Toilet preparations	37.0	38.5	38.9	39.1	-	1.1	2.0	2.3	2.0	-
2842, 3	Polishing, sanitation, and finishing preparations	39.1	40.0	39.9	39.3	-	2.4	2.6	2.2	2.0	-
285	Paints and allied products	40.6	42.1	40.3	39.7	-	2.4	3.5	2.5	1.9	-
286	Industrial organic chemicals	44.3	43.8	43.3	44.1	-	4.1	4.2	3.9	4.2	-
2865	Cyclic crudes and intermediates	42.9	42.6	42.5	42.7	-	4.2	4.1	3.8	4.1	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	44.8	44.3	43.6	44.6	-	4.1	4.3	4.0	4.3	-
287	Agricultural chemicals	43.5	43.0	43.3	43.6	-	5.4	5.0	5.1	5.5	-
289	Miscellaneous chemical products	41.1	41.7	41.3	40.9	-	3.0	3.2	3.2	3.2	-
29	PETROLEUM AND COAL PRODUCTS	43.9	43.7	39.4	41.8	42.4	4.4	4.5	4.0	3.9	-
291	Petroleum refining	44.2	43.4	37.8	42.2	-	4.0	3.8	3.5	3.9	-
295	Paving and roofing materials	43.8	45.3	42.4	40.7	-	6.3	7.4	5.5	4.1	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	39.4	40.5	40.0	39.7	39.1	2.4	3.4	2.8	2.4	-
301	Tires and inner tubes	41.5	41.4	39.9	38.9	-	3.4	4.3	1.8	1.5	-
302	Rubber and plastics footwear	36.2	37.7	39.4	40.3	-	1.1	2.0	2.7	2.8	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	39.0	41.0	41.7	41.0	-	2.4	4.3	2.1	2.2	-
306	Fabricated rubber products, nec	39.0	40.3	39.3	39.2	-	2.0	3.0	2.4	1.9	-
307	Miscellaneous plastics products	39.1	40.4	40.1	39.8	-	2.3	3.3	3.1	2.7	-
31	LEATHER AND LEATHER PRODUCTS	35.3	36.4	36.4	36.6	36.9	.9	1.4	1.6	1.6	-
311	Leather tanning and finishing	37.8	38.2	40.3	40.4	-	1.9	2.2	3.2	3.4	-
314	Footwear, except rubber	35.0	36.3	36.0	36.4	-	.7	1.3	1.3	1.4	-
3143	Men's footwear, except athletic	36.4	37.6	37.3	37.4	-	.6	1.2	1.6	1.4	-
3144	Women's footwear, except athletic	33.5	35.1	34.9	35.5	-	.9	1.5	1.1	1.4	-
316	Luggage	34.4	35.5	35.3	36.2	-	.7	2.0	2.4	2.9	-
317	Handbags and personal leather goods	35.5	36.3	36.9	35.7	-	1.1	1.5	1.8	1.4	-
	TRANSPORTATION AND PUBLIC UTILITIES	39.0	39.6	39.5	39.3	39.1	-	-	-	-	-
	RAILROAD TRANSPORTATION:										
4011	Class I railroads **	43.8	42.9	42.4	(*)	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	34.6	35.0	33.4	34.0	-	-	-	-	-	-
411	Local and suburban transportation	43.1	41.4	39.3	40.0	-	-	-	-	-	-
413	Intercity highway transportation	40.2	37.7	34.2	35.0	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	37.1	39.8	39.2	38.7	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	37.0	39.9	39.3	38.7	-	-	-	-	-	-
422	Public warehousing	37.6	37.7	38.1	37.8	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	41.3	41.2	41.7	42.1	-	-	-	-	-	-
48	COMMUNICATION	39.6	39.5	39.7	39.5	-	-	-	-	-	-
481	Telephone communication	39.9	39.7	40.1	39.8	-	-	-	-	-	-
4817	Switchboard operating employees	34.9	33.2	30.9	31.7	-	-	-	-	-	-
4818	Line construction employees *	44.0	44.3	43.2	42.6	-	-	-	-	-	-
483	Radio and television broadcasting	38.2	37.9	37.8	37.8	-	-	-	-	-	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.4	41.4	41.5	41.7	-	-	-	-	-	-
491	Electric services	42.0	41.7	42.3	42.6	-	-	-	-	-	-
492	Gas production and distribution	39.9	40.3	40.2	40.6	-	-	-	-	-	-
493	Combination utility services	41.9	41.8	41.2	41.3	-	-	-	-	-	-
495	Sanitary services	40.9	42.0	41.3	41.1	-	-	-	-	-	-
	WHOLESALE AND RETAIL TRADE	32.5	32.4	32.0	31.8	31.9	-	-	-	-	-
50, 51	WHOLESALE TRADE	38.6	38.9	38.4	38.4	38.5	-	-	-	-	-
50	WHOLESALE TRADE-DURABLE GOODS	38.9	39.3	38.7	38.7	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	38.2	38.7	38.0	38.2	-	-	-	-	-	-
502	Furniture and home furnishings	37.0	37.4	37.3	37.4	-	-	-	-	-	-
503	Lumber and construction materials	39.3	39.9	37.8	37.9	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.3	37.4	37.5	37.4	-	-	-	-	-	-

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				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
506	Metals and minerals, except petroleum	\$285.59	\$292.18	\$317.60	\$317.60	-	\$7.23	\$7.25	\$7.96	\$7.98	-
508	Electrical goods	242.70	244.09	272.52	273.29	-	6.37	6.34	7.06	7.08	-
507	Hardware, plumbing, and heating equipment	229.74	232.32	247.42	246.62	-	6.03	6.05	6.46	6.49	-
508	Machinery, equipment, and supplies	259.24	260.40	276.67	275.58	-	6.53	6.51	7.04	7.03	-
509	Miscellaneous durable goods	207.82	210.79	220.42	221.76	-	5.37	5.35	5.74	5.76	-
51	WHOLESALE TRADE-NONDURABLE GOODS	240.66	239.90	260.30	261.44	-	6.30	6.28	6.85	6.88	-
511	Paper and paper products	278.21	274.87	287.43	290.04	-	7.56	7.51	7.94	7.99	-
512	Drugs, proprietaries, and sundries	243.00	240.53	264.52	266.70	-	6.48	6.38	7.13	7.15	-
513	Apparel, piece goods, and notions	214.57	212.80	230.00	228.13	-	5.81	5.83	6.25	6.25	-
514	Groceries and related products	243.07	243.46	262.36	263.20	-	6.33	6.34	6.85	6.89	-
516	Chemicals and allied products	290.07	286.16	321.87	320.26	-	7.27	7.19	8.19	8.17	-
517	Petroleum and petroleum products	303.67	300.09	343.71	341.38	-	7.63	7.54	8.55	8.45	-
518	Beer, wine, and distilled beverages	270.05	270.48	284.19	288.33	-	7.24	7.33	7.66	7.73	-
519	Miscellaneous nondurable goods	197.49	198.66	213.36	216.01	-	5.17	5.16	5.60	5.64	-
52-59	RETAIL TRADE	137.39	136.50	143.82	143.34	\$143.93	4.49	4.49	4.81	4.81	\$4.83
52	BUILDING MATERIALS AND GARDEN SUPPLIES	182.02	183.63	191.94	192.10	-	4.88	4.91	5.23	5.22	-
521	Lumber and other building materials	201.22	204.73	212.55	212.78	-	5.12	5.17	5.45	5.47	-
525	Hardware stores	144.58	143.31	152.72	152.97	-	4.24	4.24	4.60	4.58	-
53	GENERAL MERCHANDISE STORES	126.00	127.31	136.01	135.85	-	4.33	4.36	4.69	4.75	-
531	Department stores	130.50	132.73	141.32	141.36	-	4.50	4.53	4.89	4.96	-
533	Variety stores	108.34	105.70	114.17	112.90	-	3.66	3.62	3.87	3.84	-
539	Misc. general merchandise stores	101.51	100.61	109.33	106.60	-	3.49	3.53	3.77	3.78	-
54	FOOD STORES	178.64	176.47	185.09	186.03	-	5.60	5.62	5.99	6.04	-
541	Grocery stores	185.79	183.23	192.19	192.51	-	5.77	5.78	6.16	6.21	-
546	Retail bakeries	128.83	124.70	136.62	135.53	-	4.28	4.30	4.60	4.61	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	200.94	198.22	209.99	207.76	-	5.33	5.30	5.66	5.60	-
551, 2	New and used car dealers	245.70	239.55	251.74	245.10	-	6.30	6.19	6.59	6.45	-
553	Auto and home supply stores	192.38	192.48	202.00	208.98	-	4.75	4.80	5.00	5.16	-
554	Gasoline service stations	135.93	136.91	151.16	152.39	-	3.94	3.98	4.42	4.43	-
56	APPAREL AND ACCESSORY STORES	117.31	114.62	118.72	119.13	-	3.99	3.98	4.24	4.27	-
561	Men's and boys' clothing and furnishings	146.45	143.74	152.64	154.55	-	4.52	4.52	4.77	4.86	-
562	Women's ready-to-wear stores	103.13	102.49	105.34	105.87	-	3.67	3.70	3.99	3.98	-
565	Family clothing stores	113.28	111.07	114.26	113.84	-	3.84	3.83	4.14	4.17	-
566	Shoe stores	127.30	119.71	121.95	124.43	-	4.33	4.23	4.34	4.46	-
57	FURNITURE AND HOME FURNISHINGS STORES	177.32	178.34	187.95	186.69	-	5.11	5.11	5.37	5.38	-
571	Furniture and home furnishings	181.13	182.35	193.25	190.01	-	5.25	5.24	5.49	5.46	-
572	Household appliance stores	192.25	196.02	197.58	195.86	-	5.37	5.43	5.55	5.58	-
573	Radio, television, and music stores	158.47	156.64	168.98	172.38	-	4.62	4.58	4.97	5.07	-
58	EATING AND DRINKING PLACES⁵	90.55	90.21	94.17	94.69	-	3.43	3.43	3.65	3.67	-
59	MISCELLANEOUS RETAIL	138.29	140.24	149.28	148.63	-	4.39	4.41	4.80	4.81	-
591	Drug stores and proprietary stores	123.62	125.97	134.25	133.65	-	4.04	4.09	4.49	4.50	-
594	Miscellaneous shopping goods stores	124.20	124.31	134.99	134.23	-	4.14	4.13	4.53	4.55	-
596	Nonstore retailers	166.72	173.38	184.66	186.95	-	5.21	5.27	5.63	5.77	-
598	Fuel and ice dealers	224.84	219.84	244.44	236.74	-	5.78	5.74	6.30	6.23	-
599 ⁶	Retail stores, nec	146.63	151.70	155.00	154.63	-	4.37	4.41	4.74	4.70	-
	FINANCE, INSURANCE, AND REAL ESTATE⁵	190.37	188.44	207.12	206.91	206.91	5.23	5.22	5.69	5.70	5.70
60	BANKING	163.97	160.92	175.69	175.45	-	4.48	4.47	4.84	4.86	-
602	Commercial and stock savings banks	161.64	158.04	172.79	172.56	-	4.40	4.39	4.76	4.78	-
61	CREDIT AGENCIES OTHER THAN BANKS	171.49	168.73	187.36	186.87	-	4.66	4.61	5.05	5.01	-
612	Savings and loan associations	165.62	160.83	178.12	177.51	-	4.55	4.48	4.88	4.85	-
614	Personal credit institutions	167.16	164.21	182.78	183.60	-	4.53	4.45	4.94	4.87	-
63	INSURANCE CARRIERS	207.94	208.88	230.49	231.38	-	5.56	5.60	6.13	6.17	-
631	Life insurance	211.30	210.94	238.14	240.90	-	5.59	5.61	6.30	6.39	-
632	Medical service and health insurance	198.97	205.30	227.33	225.76	-	5.32	5.46	5.92	5.91	-
633	Fire, marine, and casualty insurance	206.62	208.09	224.35	223.74	-	5.62	5.67	6.08	6.08	-

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				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 p	May 1980 p	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 p	May 1980 p
	WHOLESALE TRADE-DURABLE										
	GOODS—Continued										
505	Metals and minerals, except petroleum	39.5	40.3	39.9	39.8	-	-	-	-	-	
506	Electrical goods	38.1	38.5	38.6	38.6	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment	38.1	38.4	38.3	38.0	-	-	-	-	-	
508	Machinery, equipment, and supplies	39.7	40.0	39.3	39.2	-	-	-	-	-	
509	Miscellaneous durable goods	38.7	39.4	38.4	38.5	-	-	-	-	-	
51	WHOLESALE TRADE-NONDURABLE GOODS	38.2	38.2	38.0	38.0	-	-	-	-	-	
511	Paper and paper products	36.8	36.6	36.2	36.3	-	-	-	-	-	
512	Drugs, proprietaries, and sundries	37.5	37.7	37.1	37.3	-	-	-	-	-	
513	Apparel, piece goods, and notions	37.0	36.5	36.8	36.5	-	-	-	-	-	
514	Groceries and related products	38.4	38.4	38.3	38.2	-	-	-	-	-	
518	Chemicals and allied products	39.9	39.8	39.3	39.2	-	-	-	-	-	
517	Petroleum and petroleum products	39.8	39.8	40.2	40.4	-	-	-	-	-	
518	Beer, wine, and distilled beverages	37.3	36.9	37.1	37.3	-	-	-	-	-	
519	Miscellaneous nondurable goods	38.2	38.5	38.1	38.3	-	-	-	-	-	
52-59	RETAIL TRADE	30.6	30.4	29.9	29.8	29.8	-	-	-	-	
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	37.3	37.4	36.7	36.8	-	-	-	-	-	
521	Lumber and other building materials	39.3	39.6	39.0	38.9	-	-	-	-	-	
525	Hardware stores	34.1	33.8	33.2	33.4	-	-	-	-	-	
53	GENERAL MERCHANDISE STORES	29.1	29.2	29.0	28.6	-	-	-	-	-	
531	Department stores	29.0	29.3	28.9	28.5	-	-	-	-	-	
533	Variety stores	29.6	29.2	29.5	29.4	-	-	-	-	-	
539	Misc. general merchandise stores	29.2	28.5	29.0	28.2	-	-	-	-	-	
54	FOOD STORES	31.9	31.4	30.9	30.8	-	-	-	-	-	
541	Grocery stores	32.2	31.7	31.2	31.0	-	-	-	-	-	
546	Retail bakeries	30.1	29.0	29.7	29.4	-	-	-	-	-	
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	37.7	37.4	37.1	37.1	-	-	-	-	-	
551, 2	New and used car dealers	39.0	38.7	38.2	38.0	-	-	-	-	-	
553	Auto and home supply stores	40.5	40.1	40.4	40.5	-	-	-	-	-	
554	Gasoline service stations	34.5	34.4	34.2	34.4	-	-	-	-	-	
56	APPAREL AND ACCESSORY STORES	29.4	28.8	28.0	27.9	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	32.4	31.8	32.0	31.8	-	-	-	-	-	
562	Women's ready-to-wear stores	28.1	27.7	26.4	26.6	-	-	-	-	-	
565	Family clothing stores	29.5	29.0	27.6	27.3	-	-	-	-	-	
566	Shoe stores	29.4	28.3	28.1	27.9	-	-	-	-	-	
57	FURNITURE AND HOME FURNISHINGS										
	STORES	34.7	34.9	35.0	34.7	-	-	-	-	-	
571	Furniture and home furnishings	34.5	34.8	35.2	34.8	-	-	-	-	-	
572	Household appliance stores	35.8	36.1	35.6	35.1	-	-	-	-	-	
573	Radio, television, and music stores	34.3	34.2	34.0	34.0	-	-	-	-	-	
58	EATING AND DRINKING PLACES	26.4	26.3	25.8	25.8	-	-	-	-	-	
59	MISCELLANEOUS RETAIL	31.5	31.8	31.1	30.9	-	-	-	-	-	
591	Drug stores and proprietary stores	30.6	30.8	29.9	29.7	-	-	-	-	-	
594	Miscellaneous shopping goods stores	30.0	30.1	29.8	29.5	-	-	-	-	-	
596	Nonstore retailers	32.0	32.9	32.8	32.4	-	-	-	-	-	
598	Fuel and ice dealers	38.9	38.3	38.8	38.0	-	-	-	-	-	
599	Retail stores, nec	33.6	34.4	32.7	32.9	-	-	-	-	-	
	FINANCE, INSURANCE, AND REAL										
	ESTATE ⁵	36.4	36.1	36.4	36.3	36.3	-	-	-	-	
60	BANKING	36.6	36.0	36.3	36.1	-	-	-	-	-	
602	Commercial and stock savings banks	36.6	36.0	36.3	36.1	-	-	-	-	-	
61	CREDIT AGENCIES OTHER THAN BANKS	36.8	36.6	37.1	37.3	-	-	-	-	-	
612	Savings and loan associations	36.4	35.9	36.5	36.6	-	-	-	-	-	
614	Personal credit institutions	36.9	36.9	37.0	37.7	-	-	-	-	-	
63	INSURANCE CARRIERS	37.4	37.3	37.6	37.5	-	-	-	-	-	
631	Life insurance	37.8	37.6	37.8	37.7	-	-	-	-	-	
632	Medical service and health insurance	37.4	37.6	38.4	38.2	-	-	-	-	-	
633	Fire, marine, and casualty insurance	36.8	36.7	36.9	36.8	-	-	-	-	-	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 ^p	May 1980 ^p	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 ^p	May 1980 ^p
	SERVICES	\$171.93	\$171.28	\$166.55	\$186.88	\$186.69	\$5.29	\$5.27	\$5.74	\$5.75	\$5.78
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	121.52	120.87	132.44	130.55	-	3.92	3.95	4.30	4.31	
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	137.89	140.42	147.27	148.62	-	4.02	4.07	4.37	4.41	
723	Beauty shops	129.69	131.88	129.32	131.04	-	4.17	4.20	4.24	4.20	
	BUSINESS SERVICES	175.07	175.18	194.44	195.10	-	5.42	5.39	5.91	5.93	-
731	Advertising	271.76	268.97	289.07	290.14	-	7.57	7.43	8.12	8.15	-
734	Services to buildings	125.89	127.96	136.50	136.68	-	4.68	4.67	5.00	4.97	-
737	Computer and data processing services	226.44	225.53	256.96	254.88	-	6.17	6.23	7.04	7.08	-
	AUTO REPAIR, SERVICES, AND GARAGES ...	205.30	207.76	220.70	225.20	-	5.46	5.57	6.03	6.07	
753	Automotive repair shops	226.91	230.88	245.76	251.16	-	5.73	5.86	6.40	6.44	
76	MISCELLANEOUS REPAIR SERVICES	248.46	254.06	270.12	266.06	-	6.29	6.32	6.77	6.77	
	MOTION PICTURES	194.84	165.24	237.98	211.00	-	7.27	6.48	8.35	7.59	
781	Motion picture production and services	396.90	343.37	478.91	427.03	-	10.50	9.06	11.54	10.57	
79	AMUSEMENT AND RECREATION SERVICES ...	150.12	147.59	156.10	162.14	-	4.89	5.02	5.42	5.63	
	HEALTH SERVICES	167.13	166.12	179.95	180.60	-	5.08	5.08	5.52	5.54	-
801	Offices of physicians	173.76	174.37	185.28	183.93	-	5.33	5.30	5.75	5.73	-
802	Offices of dentists	149.64	147.97	157.48	155.84	-	5.16	5.12	5.42	5.43	-
805	Nursing and personal care facilities	119.11	117.27	125.77	127.41	-	3.83	3.82	4.11	4.15	-
806	Hospitals	162.04	181.84	159.33	200.10	-	5.37	5.38	5.88	5.52	-
81	LEGAL SERVICES	223.45	220.40	248.75	245.31	-	6.67	6.54	7.21	7.09	
	MISCELLANEOUS SERVICES	251.43	288.03	314.64	316.68	-	7.55	7.54	8.28	8.29	-
891	Engineering and architectural services	311.42	313.50	344.70	345.98	-	8.11	8.08	8.93	8.94	-
893	Accounting, auditing, and bookkeeping	262.54	247.97	271.16	272.06	-	6.58	6.56	7.08	7.03	-

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

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

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

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

⁵ Money payments only; tips, not included.

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

* Not available.

^p preliminary.

** February 1980 data for Class I Railroads (SIC 4011) are: average weekly earnings—\$402.41, average hourly earnings—\$8.65, and average weekly hours 41.7.

**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				
		Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 P	May 1980 P
	SERVICES	32.5	32.5	32.5	32.5	32.3
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	31.0	30.6	30.8	30.3		.	.	.	.
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	34.3	34.5	33.7	33.7	--	-	-	-	-	
723	Beauty shops	31.1	31.4	30.5	31.2	-	-	-	-	-	
73	BUSINESS SERVICES	32.3	32.5	32.9	32.9	-	-	-	-	-	
731	Advertising	35.9	36.2	35.6	35.6	-	-	-	-	-	
734	Services to buildings	26.9	27.4	27.3	27.5	-	-	-	-	-	
737	Computer and data processing services	36.7	36.2	36.5	36.0	-	-	-	-	-	
75	AUTO REPAIR, SERVICES, AND GARAGES	37.6	37.3	36.6	37.1	-	-	-	-	-	
753	Automotive repair shops	39.6	39.4	38.4	39.0	--	-	-	-	-	
76	MISCELLANEOUS REPAIR SERVICES	39.5	40.2	39.9	39.3		.	.	.	.
78	MOTION PICTURES	26.8	25.5	28.5	27.8	--	-	-	-	-	
781	Motion picture production and services	37.8	37.9	41.5	40.4	--	-	-	-	-	
79	AMUSEMENT AND RECREATION SERVICES	30.7	29.4	28.8	28.8		.	.	.	.
80	HEALTH SERVICES	32.9	32.7	32.6	32.6	--	-	-	-	-	
801	Offices of physicians	32.6	32.9	32.0	32.1	-	-	-	-	-	
802	Offices of dentists	29.0	28.9	29.0	28.7	-	-	-	-	-	
805	Nursing and personal care facilities	31.1	30.7	30.6	30.7	-	-	-	-	-	
806	Hospitals	33.9	33.8	33.9	33.8	-	-	-	-	-	
81	LEGAL SERVICES	33.5	33.7	34.5	34.6		.	.	.	.
89	MISCELLANEOUS SERVICES	38.6	38.2	38.0	38.2	-	-	-	-	-	
891	Engineering and architectural services	38.4	38.8	38.6	38.7	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	39.9	37.8	38.3	38.7	-	-	-	-	-	

ESTABLISHMENT DATA HOURS AND EARNINGS

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

[Employment in thousands—includes both supervisory and nonsupervisory employees]

Item	1979												
	Avg.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Executive Branch													
Total employment	2,719.8	2,677.5	2,686.3	2,688.3	2,697.4	2,720.3	2,770.2	2,783.0	2,789.6	2,697.8	2,702.7	2,707.0	2,717.2
Average weekly hours	39.5	39.7	39.7	39.5	39.5	39.4	39.4	39.8	39.5	39.4	39.3	39.7	39.5
Average overtime hours	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.2	1.2	1.4	1.4	1.3	1.4
Indexes (1967=100):													
Average weekly earnings	245.5	243.2	242.4	240.6	239.8	238.9	238.6	241.3	242.5	244.6	254.5	259.5	261.5
Average hourly earnings	244.9	241.4	240.5	240.0	239.2	238.9	238.6	238.9	241.9	244.6	255.1	257.6	260.8
Department of Defense													
Total employment	895.4	896.0	895.0	892.0	890.0	896.6	906.6	908.5	908.5	887.2	887.8	888.0	889.0
Average weekly hours	39.9	39.9	39.9	39.9	39.9	39.9	39.9	40.1	40.0	40.0	38.9	40.0	40.0
Average overtime hours .....	.9	.8	.9	.9	.8	.8	.8	.8	.9	1.2	.9	1.1	1.0
Indexes (1967=100):													
Average weekly earnings	238.5	234.7	234.7	235.2	234.4	235.2	233.6	233.4	234.5	238.0	240.4	252.3	254.0
Average hourly earnings	240.9	237.1	237.1	237.6	236.8	237.6	236.0	234.6	236.2	239.8	249.0	254.2	255.9
Postal Service													
Total employment	660.9	653.0	655.2	655.4	655.0	659.5	663.2	665.4	665.4	659.0	653.7	673.0	673.5
Average weekly hours	40.5	41.2	41.0	40.2	40.2	39.8	39.6	40.6	39.9	40.0	41.6	41.1	40.7
Average overtime hours	1.9	2.6	1.8	1.6	1.7	1.3	1.3	1.8	1.5	1.9	2.3	2.1	2.7
Indexes (1967=100):													
Average weekly earnings	283.1	280.8	276.9	271.5	271.8	268.1	274.0	281.2	283.0	286.2	300.6	296.1	305.7
Average hourly earnings	269.8	263.1	260.7	260.7	261.0	260.1	267.1	267.4	273.8	276.2	279.0	278.0	289.9
Other Agencies													
Total employment	1,163.4	1,128.5	1,136.1	1,140.9	1,152.4	1,164.2	1,200.4	1,209.1	1,215.7	1,151.6	1,161.2	1,146.0	1,154.7
Average weekly hours	38.7	38.7	38.8	38.8	38.8	38.8	38.8	39.2	38.9	38.7	38.7	38.5	38.3
Average overtime hours	1.1	.9	1.0	1.0	1.0	1.1	1.0	1.2	1.2	1.4	1.2	1.0	.9
Indexes (1967=100):													
Average weekly earnings	230.8	229.9	229.7	227.7	226.7	226.0	223.3	226.6	227.1	228.4	243.2	244.4	243.6
Average hourly earnings	231.4	230.4	229.7	227.7	226.7	226.0	223.3	224.3	226.5	229.0	243.8	246.3	246.8

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

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

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

Major industry group	Average hourly earnings excluding overtime ¹				
	Apr. 1979	May 1979	Mar. 1980	Apr. 1980 ^p	May 1980 ^p
MANUFACTURING	\$6.34	\$6.36	\$6.80	\$6.85	\$6.90
DURABLE GOODS	6.73	6.77	7.26	7.30	7.35
Lumber and wood products	5.67	5.72	6.13	6.10	-
Furniture and fixtures	4.84	4.85	5.25	5.29	-
Stone, clay, and glass products	6.39	6.41	6.93	7.03	-
Primary metal industries	8.55	8.44	9.09	9.20	-
Fabricated metal products	6.44	6.49	6.95	7.01	-
Machinery, except electrical	6.87	6.92	7.44	7.52	-
Electric and electronic equipment	5.97	6.01	6.57	6.61	-
Transportation equipment	7.98	8.09	8.67	8.69	-
Instruments and related products	5.89	5.94	6.42	6.45	-
Miscellaneous manufacturing industries	4.86	4.87	5.22	5.27	-
NONDURABLE GOODS	5.71	5.70	6.08	6.15	6.21
Food and kindred products	5.94	5.94	6.41	6.49	-
Tobacco manufactures	6.76	6.75	7.49	7.63	-
Textile mill products	4.35	4.34	4.71	4.74	-
Apparel and other textile products	4.15	4.14	4.42	4.41	-
Paper and allied products	6.60	6.61	7.18	7.26	-
Printing and publishing	-	-	-	-	-
Chemicals and allied products	7.20	7.18	7.73	7.80	-
Petroleum and coal products	9.00	8.93	8.86	9.40	-
Rubber and misc. plastics products	5.65	5.66	6.06	6.12	-
Leather and leather products	4.13	4.10	4.42	4.44	-

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

^p preliminary.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

Industry	Gross average weekly earnings			Spendable average weekly earnings ²					
				Worker with no dependents			Married worker with 3 dependents		
	Apr. 1979	Mar. 1980	Apr. P 1980	Apr. 1979	Mar. 1980	Apr. P 1980	Apr. 1979	Mar. 1980	Apr. P 1980
TOTAL PRIVATE:									
Current dollars	\$211.65	\$229.15	\$228.55	\$171.98	\$184.67	\$184.25	\$188.39	\$201.89	\$201.43
1967 dollars	99.93	95.52	94.21	81.20	76.98	75.55	88.95	84.16	83.03
MINING:									
Current dollars	363.80	386.24	388.25	274.57	288.22	289.43	302.31	318.62	320.02
1967 dollars	171.77	161.00	160.04	129.64	120.14	119.30	142.73	132.61	131.91
CONSTRUCTION:									
Current dollars	320.21	347.76	351.86	246.73	264.32	266.94	270.55	290.62	293.61
1967 dollars	151.19	144.96	145.04	116.49	110.18	110.03	127.74	121.14	121.02
MANUFACTURING:									
Current dollars	254.41	280.99	278.95	202.32	220.61	219.22	221.05	241.22	239.67
1967 dollars	120.12	117.13	114.98	95.52	91.96	90.36	104.37	100.55	98.79
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	307.32	341.28	342.30	235.48	260.19	260.84	261.15	285.90	286.64
1967 dollars	145.10	142.26	141.10	112.60	108.46	107.52	123.30	119.17	118.15
WHOLESALE AND RETAIL TRADE:									
Current dollars	162.50	172.80	171.72	135.75	143.47	142.66	152.54	160.38	159.65
1967 dollars	76.72	72.03	70.78	64.09	59.80	58.80	72.02	66.85	65.81
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	190.37	207.12	206.91	156.47	168.68	168.53	172.06	184.86	184.70
1967 dollars	89.88	86.34	85.29	73.88	70.31	69.47	81.24	77.06	76.13
SERVICES:									
Current dollars	171.93	186.55	186.88	142.81	153.69	153.93	159.79	169.57	169.78
1967 dollars	81.18	77.76	77.03	67.43	64.06	63.45	75.44	70.66	69.98
CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)	211.8	239.9	242.6						

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

p=preliminary (applicable to earnings data only).

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.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division and major manufacturing group

[1987=100]

Industry division and group	Apr. 1975	May 1979	Mar. 1980	Apr. p 1980	May p 1980
	Hours				
TOTAL PRIVATE	122.0	125.0	123.2	122.9	123.3
GOODS-PRODUCING	104.8	110.0	104.5	103.2	103.0
MINING	148.9	151.5	160.1	161.0	165.0
CONSTRUCTION	120.2	134.7	116.2	122.6	129.4
MANUFACTURING	100.6	104.1	100.5	97.8	96.1
DURABLE GOODS	104.0	108.2	103.7	99.9	97.0
Lumber and wood products	110.4	114.3	101.1	92.3	90.8
Furniture and fixtures	103.4	104.3	104.5	101.6	95.9
Stone, clay, and glass products	110.2	114.5	104.0	102.8	102.1
Primary metal industries	99.5	98.5	90.9	89.7	85.1
Fabricated metal products	101.3	106.4	104.2	100.5	95.6
Machinery, except electrical	112.9	116.1	117.5	114.5	113.3
Electric and electronic equipment	102.9	106.9	107.6	105.3	102.7
Transportation equipment	94.2	103.9	91.7	83.0	79.5
Instruments and related products	125.6	128.0	129.1	128.2	127.4
Miscellaneous manufacturing industries	95.7	98.5	97.7	96.6	94.9
NONDURABLE GOODS	95.5	98.2	95.9	94.7	94.9
Food and kindred products	89.9	82.2	88.7	87.2	90.0
Tobacco manufactures	64.8	66.7	62.6	61.4	60.1
Textile mill products	86.0	89.7	91.4	88.7	88.1
Apparel and other textile products	86.0	89.5	89.6	88.0	87.9
Paper and allied products	99.3	101.6	101.5	100.5	98.2
Printing and publishing	100.9	102.7	105.3	103.9	102.7
Chemicals and allied products	108.1	108.0	108.0	108.0	108.1
Petroleum and coal products	123.5	124.7	69.2	85.1	114.8
Rubber and misc. plastics products	145.2	150.3	139.7	136.1	127.3
Leather and leather products	63.6	67.0	63.3	63.7	65.1
SERVICE-PRODUCING	134.0	135.4	136.3	136.6	137.4
TRANSPORTATION AND PUBLIC UTILITIES	107.9	113.0	112.8	112.2	112.6
WHOLESALE AND RETAIL TRADE	128.6	129.4	127.3	127.4	128.5
WHOLESALE TRADE	130.3	132.1	132.6	131.8	132.2
RETAIL TRADE	127.9	128.3	125.2	125.7	127.1
FINANCE, INSURANCE, AND REAL ESTATE	144.6	144.5	149.2	149.3	150.4
SERVICES	150.4	151.5	155.7	156.8	157.3

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

p=preliminary.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

C-6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division and major manufacturing group—Continued

[1987=100]

Industry division and group	Apr. 1979	May 1979	Mar. 1980	Apr. 1980P	May 1980P
	Payrolls				
TOTAL PRIVATE	274.4	283.6	299.5	299.5	302.0
GOODS-PRODUCING	244.0	260.0	261.5	260.0	261.4
MINING	398.8	401.6	448.2	457.1	468.6
CONSTRUCTION	263.7	299.3	272.9	287.3	304.8
MANUFACTURING	233.0	244.3	251.2	245.3	242.2
DURABLE GOODS	241.2	255.2	260.8	251.7	245.4
Lumber and wood products	275.3	288.4	271.8	245.1	245.2
Furniture and fixtures	219.6	222.9	241.9	236.6	223.8
Stone, clay, and glass products	262.9	275.1	267.8	267.4	268.6
Primary metal industries	265.7	260.4	257.3	256.0	242.4
Fabricated metal products	225.2	241.8	252.6	244.7	234.1
Machinery, except electrical	251.2	263.8	286.9	281.1	280.4
Electric and electronic equipment	226.7	239.5	262.8	257.9	251.9
Transportation equipment	226.7	259.0	240.4	217.4	208.7
Instruments and related products	265.7	274.3	299.9	298.4	299.9
Miscellaneous manufacturing industries	201.9	209.6	223.0	222.2	221.0
NONDURABLE GOODS	219.0	225.6	235.0	234.4	236.8
Food and kindred products	210.8	217.2	224.9	223.6	232.6
Tobacco manufactures	194.3	200.7	210.1	211.5	204.1
Textile mill products	187.2	197.4	218.8	212.5	210.5
Apparel and other textile products	177.6	185.1	198.2	193.7	192.5
Paper and allied products	239.2	246.3	266.2	266.5	260.4
Printing and publishing	206.9	214.0	234.4	231.5	232.1
Chemicals and allied products	261.2	260.0	279.7	282.4	283.9
Petroleum and coal products	326.1	327.2	180.3	234.0	326.1
Rubber and misc. plastics products	307.8	323.0	319.2	312.6	293.1
Leather and leather products	128.5	135.6	138.3	139.8	143.8
SERVICE-PRODUCING	300.5	304.3	332.3	333.6	336.9
TRANSPORTATION AND PUBLIC UTILITIES	263.0	277.3	301.1	302.1	304.1
WHOLESALE AND RETAIL TRADE	285.6	287.4	304.9	305.2	309.3
WHOLESALE TRADE	285.3	288.8	314.5	313.4	316.1
RETAIL TRADE	285.8	286.6	299.5	300.6	305.5
FINANCE, INSURANCE, AND REAL ESTATE	292.5	291.8	328.7	329.4	331.9
SERVICES	347.9	348.9	390.7	393.9	397.1

ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

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

Industry	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. ^p	May ^p
TOTAL PRIVATE	35.7	35.6	35.6	35.6	35.7	35.6	35.7	35.7	35.7	35.5	35.4	35.3	35.1
MINING	42.8	43.0	41.6	43.2	43.1	43.1	43.2	43.9	44.4	43.7	43.5	43.2	42.8
CONSTRUCTION	37.1	37.2	36.8	37.2	37.5	36.6	36.8	37.1	37.6	36.7	36.1	36.5	36.8
MANUFACTURING	40.2	40.1	40.2	40.1	40.2	40.2	40.1	40.2	40.3	40.1	39.8	39.6	39.4
<i>Overtime hours</i>	3.5	3.4	3.3	3.2	3.2	3.2	3.3	3.2	3.2	3.1	3.2	2.9	2.6
DURABLE GOODS	40.9	40.7	40.7	40.7	40.7	40.8	40.6	40.7	40.8	40.6	40.4	40.1	39.8
<i>Overtime hours</i>	3.8	3.6	3.5	3.3	3.3	3.3	3.4	3.3	3.3	3.1	3.2	2.8	2.6
Lumber and wood products	39.4	39.4	39.3	39.5	39.7	39.4	38.9	39.0	39.5	39.1	38.6	37.1	37.1
Furniture and fixtures	38.5	38.5	38.4	38.3	38.6	38.8	38.9	39.0	39.0	39.0	38.6	38.6	37.5
Stone, clay, and glass products	41.7	41.6	41.4	41.3	41.5	41.3	41.5	41.6	41.3	41.0	40.9	40.5	40.7
Primary metal industries	41.4	41.2	41.3	41.0	41.0	41.1	40.7	40.6	40.8	40.8	40.8	40.7	39.8
Fabricated metal products	40.7	40.7	40.8	40.6	40.7	40.9	40.7	41.0	40.9	40.8	40.6	40.5	39.9
Machinery, except electrical	42.0	42.0	41.9	41.6	41.9	41.6	41.6	41.6	41.7	41.5	41.4	41.3	41.2
Electric and electronic equipment	40.4	40.3	40.2	39.8	40.3	40.3	40.6	40.5	40.4	40.4	40.0	35.8	39.7
Transportation equipment	41.5	40.8	40.9	41.7	40.6	41.3	40.6	41.0	41.0	40.9	40.4	39.7	39.6
Instruments and related products	40.8	40.6	40.7	40.5	40.6	40.7	41.0	40.8	41.5	40.9	40.5	40.7	40.5
Miscellaneous manufacturing ind	38.6	38.9	39.3	39.1	39.1	39.1	39.1	39.2	39.5	39.2	38.6	38.6	38.5
NONDURABLE GOODS	35.2	35.2	35.2	35.2	35.3	35.3	35.4	35.4	35.5	35.4	35.1	35.0	34.9
<i>Overtime hours</i>	3.0	3.0	3.0	3.0	3.1	3.0	3.2	3.1	3.1	3.0	3.1	2.9	2.7
Food and kindred products	39.8	39.8	39.8	39.7	40.0	39.9	40.0	39.9	40.0	39.6	39.4	39.5	39.9
Tobacco manufactures	38.9	37.6	38.5	38.0	38.6	38.3	37.8	38.8	38.5	37.7	37.6	38.1	37.9
Textile mill products	40.0	40.1	40.1	40.1	40.6	40.8	41.1	41.0	41.7	41.1	40.8	40.0	40.0
Apparel and other textile products	35.2	35.2	35.3	35.3	35.3	35.3	35.3	35.6	35.9	36.0	35.5	35.6	35.4
Paper and allied products	42.6	42.5	42.5	42.6	42.4	42.6	42.7	42.9	42.8	42.9	42.6	42.4	41.8
Printing and publishing	37.4	37.4	37.5	37.7	37.5	37.4	37.6	37.4	37.8	37.4	37.2	37.1	36.8
Chemicals and allied products	41.9	41.7	41.9	42.0	41.7	41.7	41.9	41.7	42.0	41.9	41.6	41.4	41.5
Petroleum and coal products	43.7	43.3	43.6	43.7	44.1	43.7	44.4	43.5	36.6	40.4	35.6	41.8	42.4
Rubber and misc. plastics products	40.9	40.7	40.6	40.2	40.3	40.3	40.0	39.9	40.6	39.9	39.9	40.0	39.5
Leather and leather products	36.1	36.4	36.6	36.5	37.0	36.5	36.7	36.9	37.2	37.3	36.8	36.9	36.6
TRANSPORTATION AND PUBLIC UTILITIES	39.8	39.8	39.7	39.9	39.9	39.9	40.2	39.8	39.9	39.5	39.7	39.5	39.3
WHOLESALE AND RETAIL TRADE	32.6	32.6	32.6	32.5	32.6	32.6	32.7	32.6	32.5	32.3	32.3	32.1	32.0
WHOLESALE TRADE	39.0	38.8	38.8	38.7	38.7	38.8	38.9	38.9	38.8	38.7	38.5	38.5	38.6
RETAIL TRADE	30.6	30.6	30.6	30.5	30.7	30.6	30.7	30.6	30.5	30.3	30.3	30.1	29.9
FINANCE, INSURANCE, AND REAL ESTATE	36.1	36.2	36.3	36.1	36.4	36.2	36.5	36.4	36.2	36.4	36.5	36.4	36.3
SERVICES	32.7	32.7	32.8	32.7	32.7	32.6	32.7	32.5	32.7	32.7	32.7	32.7	32.5

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

p=preliminary.

c=corrected.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

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

[1967-100]

Industry division and group	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. p	May P
TOTAL PRIVATE ..	125.4	125.7	125.7	125.5	125.9	125.8	126.3	126.6	127.1	126.7	126.0	124.5	123.6
GOODS-PRODUCING ..	110.3	110.1	109.9	109.4	109.7	109.0	108.7	109.6	110.6	109.4	107.5	105.1	103.3
MINING	151.6	152.5	148.4	156.7	157.4	158.1	158.4	162.3	165.7	164.4	163.7	164.3	164.9
CONSTRUCTION	133.7	134.4	133.9	134.5	135.4	132.7	133.7	137.1	142.5	137.4	129.5	127.2	128.7
MANUFACTURING ..	104.7	104.3	104.4	103.3	103.4	103.1	102.5	102.5	103.0	102.5	101.7	99.2	96.7
DURABLE GOODS	108.3	107.9	107.9	106.8	107.1	106.2	105.1	105.6	105.3	105.3	104.6	100.7	97.0
Lumber and wood products	113.3	112.7	111.9	112.3	113.6	113.3	110.1	108.3	109.0	108.2	105.3	93.8	89.9
Furniture and fixtures	105.9	105.3	105.9	104.5	104.8	105.9	106.2	106.4	106.7	105.9	104.8	103.7	97.4
Stone, clay, and glass products	113.1	113.0	111.5	110.8	111.2	110.6	110.4	110.8	110.4	109.6	104.4	104.0	100.8
Primary metal industries	97.9	97.9	97.8	95.9	95.3	94.6	93.1	91.8	92.1	92.2	91.7	89.8	84.4
Fabricated metal products	106.6	107.1	106.7	104.8	105.4	106.1	105.8	106.4	105.1	105.7	105.2	102.0	95.7
Machinery, except electrical	117.4	117.6	118.0	116.2	117.7	114.3	113.6	113.5	117.5	116.6	116.2	114.6	114.4
Electric and electronic equipment	108.2	108.6	108.5	104.7	107.2	107.6	108.1	108.6	109.2	108.7	108.2	106.7	103.8
Transportation equipment	102.6	99.4	100.3	102.6	100.1	97.4	93.7	96.7	90.7	92.9	92.1	82.9	78.4
Instruments and related products	128.1	128.4	128.1	127.2	127.2	127.8	127.8	128.1	130.6	129.4	125.6	129.6	127.5
Miscellaneous manufacturing ind	98.7	100.3	100.7	100.8	99.9	99.9	99.9	101.4	102.2	100.5	99.5	98.4	94.9
NONDURABLE GOODS	95.5	99.1	99.1	98.2	98.1	98.5	98.8	99.0	99.7	98.3	97.4	96.8	96.1
Food and kindred products	97.0	96.8	95.9	94.6	95.0	96.1	96.5	97.0	96.8	95.5	94.4	93.8	94.8
Tobacco manufactures	76.5	72.6	73.0	66.7	70.5	69.9	61.1	65.4	67.6	67.5	67.3	65.6	69.2
Textile mill products	89.5	89.6	89.8	89.0	89.8	90.6	91.8	91.8	93.5	92.0	91.6	89.3	87.8
Apparel and other textile products	89.5	88.7	89.5	88.0	87.5	87.9	87.3	88.4	90.0	90.5	89.4	88.9	87.9
Paper and allied products	102.3	102.1	103.2	103.1	102.2	102.7	102.8	103.3	103.4	103.8	103.3	101.9	98.9
Printing and publishing	103.1	103.3	104.4	104.7	103.9	104.3	105.9	105.1	107.2	106.2	105.5	104.6	102.9
Chemicals and allied products	108.3	108.4	108.8	108.2	107.6	107.9	108.6	108.6	109.7	108.9	108.0	107.8	108.2
Petroleum and coal products	124.2	123.1	123.0	124.2	126.2	125.1	128.0	126.3	106.3	76.0	71.3	86.3	114.4
Rubber and misc. plastics products	153.4	150.4	150.5	145.6	143.5	143.5	142.5	140.9	143.6	140.7	140.7	139.1	129.6
Leather and leather products	65.4	66.0	61.3	64.9	66.1	65.2	64.9	65.0	65.2	65.3	64.1	64.0	63.8
SERVICE-PRODUCING	135.9	136.5	136.7	136.6	137.2	137.5	138.5	138.4	138.6	138.8	138.9	138.0	137.7
TRANSPORTATION AND PUBLIC UTILITIES	113.4	115.0	114.2	115.2	114.9	115.8	116.9	115.4	115.2	114.2	114.9	113.8	113.3
WHOLESALE AND RETAIL TRADE	130.2	130.0	129.9	129.6	130.4	130.7	131.6	130.9	131.6	131.5	131.0	129.4	129.0
WHOLESALE TRADE	132.8	132.8	132.7	132.4	132.5	133.4	134.3	134.1	134.3	134.5	134.0	132.7	132.7
RETAIL TRADE	129.1	128.9	128.9	128.9	129.6	129.7	130.5	129.7	130.5	130.3	129.9	128.1	127.6
FINANCE, INSURANCE, AND REAL ESTATE	144.5	145.7	146.5	146.3	147.1	146.7	148.3	148.3	148.1	149.6	150.4	150.1	150.4
SERVICES	151.7	152.6	153.5	153.4	153.8	154.1	155.2	156.5	156.2	157.1	157.4	157.6	157.2

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

p=preliminary.

ESTABLISHMENT DATA SEASONALLY ADJUSTED

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

Industry	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. ^P	May ^P
Hourly Earnings Index ² (1967=100)													
TOTAL PRIVATE (In current dollars).....	227.5	225.0	230.9	232.2	234.3	234.9	237.3	239.5	240.5	242.6	245.3	246.4	247.9
MINING.....	262.7	264.9	266.9	265.6	266.1	268.0	271.6	273.2	274.0	275.5	278.4	283.2	284.1
CONSTRUCTION.....	220.4	220.4	222.1	223.1	224.4	224.0	225.8	227.6	225.1	229.8	231.9	232.0	232.5
MANUFACTURING.....	232.3	233.9	235.4	236.9	238.7	240.0	242.1	244.3	245.3	248.1	250.1	252.3	254.3
TRANSPORTATION AND PUBLIC UTILITIES.....	243.7	246.4	251.3	252.6	255.6	255.8	258.9	260.7	261.2	262.7	266.2	267.4	268.8
WHOLESALE AND RETAIL TRADE.....	221.0	222.6	223.8	225.4	227.0	227.4	229.5	231.3	234.7	235.5	238.0	238.4	239.9
FINANCE, INSURANCE, AND REAL ESTATE.....	207.0	208.0	210.8	211.5	214.4	213.1	216.2	218.5	218.6	221.2	226.0	226.0	225.8
SERVICES.....	224.3	225.7	227.0	228.4	231.5	232.3	234.7	237.7	238.0	239.9	243.1	243.6	245.4
TOTAL PRIVATE (In 1967 dollars) ³	106.3	105.8	105.6	105.1	104.9	104.1	104.1	103.8	102.8	102.3	102.0	101.5	-
Average hourly earnings													
TOTAL PRIVATE.....	\$6.09	\$6.13	\$6.18	\$6.22	\$6.26	\$6.28	\$6.33	\$6.39	\$6.42	\$6.46	\$6.53	\$6.54	\$6.57
MINING.....	8.43	8.49	8.49	8.57	8.50	8.57	8.71	8.76	8.82	8.90	8.93	9.07	9.03
CONSTRUCTION.....	9.20	9.19	9.27	9.32	9.35	9.38	9.45	9.53	9.43	9.64	9.73	9.74	9.74
MANUFACTURING.....	6.65	6.68	6.72	6.74	6.78	6.82	6.86	6.91	6.93	6.98	7.06	7.10	7.14
TRANSPORTATION AND PUBLIC UTILITIES.....	7.99	8.09	8.21	8.30	8.37	8.39	8.48	8.53	8.54	8.59	8.71	8.74	8.79
WHOLESALE AND RETAIL TRADE.....	5.00	5.03	5.07	5.10	5.12	5.14	5.19	5.23	5.30	5.31	5.38	5.38	5.41
FINANCE, INSURANCE, AND REAL ESTATE.....	5.21	5.23	5.30	5.32	5.40	5.38	5.45	5.51	5.51	5.56	5.69	5.69	5.69
SERVICES.....	5.26	5.31	5.35	5.39	5.45	5.46	5.52	5.58	5.60	5.64	5.72	5.73	5.77
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars.....	217.41	218.23	220.01	221.43	223.48	223.57	225.98	228.12	225.19	229.33	231.16	230.86	230.61
1967 dollars ³	101.55	100.85	100.60	100.24	100.04	99.10	99.16	98.88	97.94	96.68	96.12	95.08	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) ^{3, 4}	90.09	89.43	89.12	88.73	88.44	87.61	87.53	87.17	86.29	85.17	84.58	83.68	-

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

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

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

⁴ See footnote 2, table C-5.

N.A.=not available.

p=preliminary.

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

Industry division	Millions of hours (Annual rate) ²			Percent change		
	MARCH 1979	APRIL p1980	MAY p1980	May 1979 to May 1980	Mar. 1980 to Apr. 1980	Apr. 1980 to May 1980
TOTAL.....	170,931	169,700	168,810	0.1	-0.7	-0.5
PRIVATE SECTOR.....	139,756	138,176	137,296	-0.5	-1.1	-0.6
MINING.....	2,298	2,288	2,317	10.2	-0.5	1.3
CONSTRUCTION.....	8,897	8,731	8,794	-1.8	-1.9	0.7
MANUFACTURING.....	43,597	42,681	41,881	-4.7	-2.1	-1.9
DURABLE GOODS.....	26,832	26,032	25,347	-6.3	-3.0	-2.6
NONDURABLE GOODS.....	16,765	16,649	16,534	-2.3	-0.7	-0.7
TRANSPORTATION AND PUBLIC UTILITIES.....	10,770	10,664	10,595	-0.4	-1.0	-0.6
WHOLESALE AND RETAIL TRADE.....	34,510	34,204	34,061	-0.5	-0.9	-0.4
FINANCE, INSURANCE, AND REAL ESTATE.....	9,706	9,670	9,699	4.4	-0.4	0.3
SERVICES.....	29,978	29,937	29,949	3.8	-0.1	0.0
GOVERNMENT.....	31,175	31,525	31,513	2.7	1.1	0.0

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

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

**PRODUCTIVITY
SEASONALLY ADJUSTED**

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

[1967 = 100]

Item	Annual average		Quarterly indexes										
			1977		1978				1979				1980
	1978	1979	III	IV	I	II	III	IV	I	II	III	IV	I
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	119.3	118.3	119.6	119.0	118.5	119.1	119.8	119.9	119.0	118.4	118.0	117.9	r117.6
Output	140.7	144.1	135.2	136.1	136.9	140.3	141.8	144.0	144.4	143.4	143.8	144.8	r144.8
Hours	118.0	121.8	113.1	114.3	115.5	117.8	118.3	120.1	121.4	121.2	121.9	122.8	r123.1
Compensation per hour	231.5	253.2	215.6	218.8	224.5	228.8	233.9	238.7	245.1	250.6	256.0	260.6	r267.6
Real compensation per hour	118.5	116.4	117.8	117.9	118.8	118.3	118.3	118.1	118.0	117.1	115.9	114.3	r112.9
Unit labor costs	194.0	214.0	180.2	183.9	189.4	192.1	195.2	199.0	205.9	211.7	217.0	221.1	r227.5
Unit nonlabor payments	174.3	184.4	167.9	168.5	164.8	173.9	177.0	181.2	180.8	183.6	185.5	188.2	r189.8
Implicit price deflator	187.2	203.8	176.0	178.6	180.9	185.8	188.9	192.9	197.2	202.0	206.1	209.7	r214.5
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	117.0	115.7	116.9	116.4	116.1	116.7	117.5	117.7	116.8	115.5	115.1	115.4	r114.9
Output	141.5	144.9	135.6	136.4	137.3	141.1	142.7	145.0	145.5	144.2	144.6	145.5	r145.6
Hours	121.0	125.3	116.0	117.2	118.2	120.9	121.4	123.2	124.6	124.8	125.6	126.1	r126.6
Compensation per hour	227.6	248.0	211.5	215.1	220.9	225.0	229.8	234.7	240.5	245.1	250.2	255.9	r262.2
Real compensation per hour	116.5	114.1	115.6	115.9	116.9	116.3	116.2	116.1	115.8	114.6	113.3	112.3	r110.6
Unit labor costs	194.6	214.4	181.0	184.8	190.2	192.8	195.6	199.4	206.0	212.2	217.3	221.8	r228.1
Unit nonlabor payments	169.9	178.6	167.1	165.9	161.1	169.1	173.0	176.0	174.3	177.6	180.4	182.5	r185.5
Implicit price deflator	186.1	202.1	176.2	178.3	180.2	184.7	187.8	191.4	195.1	200.3	204.7	208.4	r213.5
MANUFACTURING:													
Output per hour of all persons	128.3	r129.5	128.9	128.3	r126.3	r127.8	r129.5	r129.9	r128.7	r129.2	r130.1	r129.6	r128.9
Output	134.5	r138.6	129.9	r130.9	r130.3	r133.6	r135.8	r138.2	r139.3	r138.6	r138.5	r138.0	r137.7
Hours	104.8	107.0	100.8	102.0	103.1	104.5	104.9	106.4	108.2	107.2	106.4	106.5	r106.8
Compensation per hour	230.2	251.3	214.8	218.3	223.8	227.3	232.0	237.2	243.2	248.9	253.7	259.0	r265.1
Real compensation per hour	117.8	115.6	117.4	117.6	118.4	117.5	117.4	117.3	117.1	116.3	114.9	113.6	111.8
Unit labor costs	179.4	r194.1	166.7	r170.1	r177.2	r177.9	179.1	r182.7	r189.0	r192.6	r195.0	r199.8	r205.8
DURABLE GOODS													
Output per hour of all persons	121.7	r121.7	122.8	r122.3	r119.5	r121.5	122.9	r122.9	r121.5	r122.0	r121.8	r121.3	r120.0
Output	129.6	r133.8	124.4	r125.6	r124.6	r128.5	131.3	r134.1	r135.4	r134.2	r133.2	r132.4	r131.5
Hours	106.5	109.9	101.3	102.7	104.2	105.7	106.9	109.1	111.4	110.0	109.4	109.2	r109.6
Compensation per hour	231.7	252.6	216.8	220.3	225.4	228.7	233.3	238.8	244.7	250.3	255.1	260.0	r267.3
Real compensation per hour	118.6	116.2	118.5	118.7	119.2	118.3	118.0	118.1	117.8	117.0	115.5	114.1	112.7
Unit labor costs	190.4	r207.5	176.6	r180.2	r188.5	r188.2	189.9	r194.2	r201.3	r205.1	r209.5	r214.3	r222.7
NONDURABLE GOODS													
Output per hour of all persons	139.3	r142.4	138.8	r138.3	r137.5	r138.0	140.6	r141.4	r140.7	r141.3	r144.1	r143.5	r143.7
Output	142.3	r146.3	138.8	139.4	r139.5	141.7	143.2	r144.7	r145.5	r145.7	r147.1	r147.0	r147.7
Hours	102.1	102.7	100.0	100.8	101.5	102.7	101.9	102.3	103.4	103.1	102.0	102.4	102.7
Compensation per hour	226.7	247.2	211.0	214.3	220.6	224.1	228.7	233.0	238.6	244.7	249.5	255.6	r259.6
Real compensation per hour	116.0	113.7	115.3	115.5	116.7	115.9	115.7	115.2	114.9	114.4	113.0	112.1	109.5
Unit labor costs	162.7	r173.5	r152.0	155.0	r160.5	r162.4	162.7	r164.7	r169.6	r173.2	r173.1	r178.1	r180.6
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	118.1	117.7	117.7	116.9	116.9	118.1	118.7	119.0	118.4	117.5	117.4	117.3	p117.1
Output	150.0	154.7	142.7	143.4	144.7	149.7	151.4	154.2	155.1	154.1	154.3	155.1	p155.3
Hours	127.0	131.4	121.2	122.7	123.8	126.8	r127.3	129.6	131.1	131.1	131.4	132.2	p132.6
Compensation per hour	225.2	245.2	209.9	213.2	218.9	222.8	227.3	231.7	237.9	242.5	247.6	252.6	p258.9
Real compensation per hour	115.3	112.8	114.7	114.9	115.8	115.2	115.0	114.6	114.6	113.3	112.1	110.8	p109.2
Total unit costs	193.3	210.4	182.4	186.3	190.8	191.6	194.0	196.8	202.3	208.0	213.2	218.0	p224.6
Unit labor costs	190.6	208.4	178.4	182.3	187.3	188.7	191.5	194.8	201.0	206.4	210.8	215.3	p221.1
Unit nonlabor costs	201.8	216.6	194.8	198.7	201.5	200.8	201.6	203.1	206.5	213.2	220.5	226.1	p235.4
Unit profits	127.2	127.8	130.9	122.2	107.1	129.2	132.7	138.7	130.3	129.2	127.5	124.0	p118.6
Implicit price deflator	183.5	198.1	174.7	176.8	178.3	182.3	184.9	188.2	191.6	196.3	200.4	204.0	p208.8

p=preliminary.
r=revised.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

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

Item	Quarterly percent change						Annual percent change					
	III 1978	IV 1978	I 1979	II 1979	III 1979	IV 1979	IV 1977	I 1978	II 1978	III 1978	IV 1978	I 1979
	to IV 1978	to I 1979	to II 1979	to III 1979	to IV 1979	to I 1980	to IV 1978	to I 1979	to II 1979	to III 1979	to IV 1979	to I 1980
PRIVATE BUSINESS SECTOR:												
Output per hour of all persons	0.3	-3.0	-2.2	-1.4	-0.3	r-0.7	0.8	0.4	-0.6	-1.6	-1.7	r-1.2
Output	6.4	1.2	-2.9	1.1	2.8	r0.0	5.8	5.5	2.2	1.4	0.5	0.2
Hours	6.1	4.4	-0.7	2.5	3.2	r0.8	5.0	5.1	2.8	3.0	2.3	r1.4
Compensation per hour	8.5	11.1	9.3	8.8	7.4	r11.2	9.1	9.2	9.5	9.4	9.2	r9.2
Real compensation per hour	-0.9	-0.1	r-3.1	-4.0	-5.4	r-4.9	0.1	-0.6	-1.0	-2.0	-3.2	r-4.4
Unit labor costs	8.1	14.6	11.8	10.3	7.8	r12.0	8.3	8.7	10.2	11.2	11.1	r10.5
Unit nonlabor payments	9.9	-1.0	r6.6	4.2	r6.0	r3.4	7.5	9.7	5.6	4.8	3.9	r5.0
Implicit price deflator	8.7	9.3	10.1	8.3	7.2	r9.3	8.0	9.0	8.7	9.1	8.7	r8.7
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	0.8	-3.2	-4.1	-1.4	0.7	r-1.4	1.1	0.5	-1.0	-2.0	-2.0	r-1.5
Output	6.8	1.2	-3.6	1.2	2.5	r0.2	6.3	5.9	2.2	1.3	0.3	r0.1
Hours	5.9	4.6	0.5	2.6	1.8	r1.6	5.2	5.4	3.2	3.4	2.4	1.6
Compensation per hour	8.8	10.4	7.9	8.5	9.4	r10.2	9.1	8.9	9.0	8.9	9.0	r9.0
Real compensation per hour	-0.6	-0.7	r-4.4	-4.3	r-3.7	r-5.8	0.1	-0.9	-1.5	-2.5	-3.3	r-4.5
Unit labor costs	8.0	14.0	12.5	10.1	8.6	r11.8	7.9	8.3	10.1	11.1	11.3	r10.7
Unit nonlabor payments	7.3	-3.9	7.8	6.6	4.6	r6.8	6.1	8.2	5.0	4.3	3.7	r6.5
Implicit price deflator	7.8	8.1	11.0	9.0	7.4	r10.3	7.3	8.3	8.5	9.0	8.9	r9.4
MANUFACTURING:												
Output per hour of all persons	r1.0	r-3.6	r1.8	r2.7	r-1.5	r-2.3	r1.2	r1.9	r1.2	r0.4	r-0.2	r0.1
Output	r7.0	r3.2	r-2.0	r-0.3	r-1.4	r-0.9	r5.6	r6.9	r3.8	r1.9	r-0.1	r-1.1
Hours	5.9	7.1	-3.7	-2.9	0.1	r1.5	4.3	4.9	2.6	1.5	0.1	r-1.3
Compensation per hour	9.3	10.4	9.8	8.0	8.6	9.8	8.7	8.6	9.5	9.3	9.2	9.0
Real compensation per hour	-0.2	-0.7	r-2.7	-4.8	-4.4	-6.1	-0.3	-1.1	-1.1	-2.1	-3.2	-4.5
Unit labor costs	r8.2	r14.5	r7.9	r5.2	r10.3	r12.4	r7.4	r6.6	r8.2	r8.9	r9.4	r8.9
DURABLE GOODS												
Output per hour of all persons	r0.2	r-4.5	r1.7	r-0.9	r-1.5	r-4.2	r0.6	r1.7	r0.4	r-0.9	r-1.3	r-1.3
Output	r8.9	r3.9	r-3.6	r-3.0	r-2.3	r-2.7	r6.8	r8.7	r4.4	r1.4	r-1.3	r-2.9
Hours	8.7	8.8	-5.2	-2.1	-0.8	r1.5	6.2	6.9	4.0	2.4	0.1	r-1.6
Compensation per hour	9.6	10.3	r9.6	7.9	7.9	11.6	8.4	8.6	9.4	9.3	8.9	r9.2
Real compensation per hour	0.1	-0.8	r-2.9	-4.9	-5.0	r-4.5	-0.6	-1.1	-1.1	-2.1	-3.4	r-4.3
Unit labor costs	r9.4	r15.4	r7.7	r8.8	r9.6	r16.5	r7.8	r6.8	r9.0	r10.3	r10.4	r10.6
NONDURABLE GOODS												
Output per hour of all persons	r2.5	r-2.2	r1.7	r8.3	r-1.6	r0.6	r2.3	r2.3	r2.4	r2.5	r1.5	r2.2
Output	r4.3	r2.1	r0.5	r3.9	r-0.2	r1.9	r3.8	r4.3	r2.8	r2.7	r1.6	r1.5
Hours	1.8	4.4	-1.2	-4.1	1.5	1.3	1.5	1.9	0.4	0.2	0.1	-0.7
Compensation per hour	7.8	10.0	r10.7	8.1	10.1	r6.5	8.7	8.2	9.2	9.1	9.7	r8.8
Real compensation per hour	-1.5	-1.1	r-1.9	-4.7	-3.0	r-9.0	r-0.2	-1.5	-1.3	-2.3	-2.7	r-4.7
Unit labor costs	r5.2	r12.5	r8.3	r-0.2	r11.9	r5.8	r6.3	r5.7	r6.7	r6.4	r8.1	r6.5
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	1.1	-2.1	r-2.9	-0.2	-0.5	p-0.7	1.8	1.3	-0.5	-1.0	-1.4	p-1.1
Output	7.6	2.5	-2.6	0.6	1.9	p0.6	7.5	7.2	2.9	1.9	0.6	p0.1
Hours	6.4	4.6	0.3	0.9	2.4	p1.3	5.6	5.8	3.4	3.0	2.0	p1.2
Compensation per hour	8.1	11.0	8.0	8.6	8.3	p10.4	8.7	8.7	8.9	8.9	9.0	p8.8
Real compensation per hour	-1.3	-0.1	r-4.3	-4.3	-4.6	p-5.6	-0.2	-1.1	-1.6	-2.5	-3.3	p-4.7
Total unit costs	5.9	11.7	11.8	10.2	9.3	p12.7	5.6	6.1	8.6	9.9	10.8	p11.0
Unit labor costs	6.9	13.4	11.2	8.8	8.9	p11.1	6.8	7.3	9.4	10.1	10.6	p10.0
Unit nonlabor costs	2.9	6.8	13.5	14.6	10.6	p17.3	2.2	2.5	6.2	9.4	11.3	p14.0
Unit profits	19.5	-22.1	-3.4	-5.3	-10.4	p16.3	13.6	21.7	0.0	-3.9	-10.6	p-9.0
Implicit price deflator	7.3	7.6	10.2	8.6	7.3	p9.8	6.4	7.5	7.7	8.4	8.4	p9.0

p=preliminary.
r=revised.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
ALABAMA	\$233.24	\$256.31	\$252.25	39.2	40.3	39.6	\$5.95	\$6.36	\$6.37
Birmingham	274.95	297.26	296.00	39.0	39.9	40.0	7.05	7.45	7.40
Mobile	294.58	327.66	319.02	40.8	41.9	40.9	7.22	7.82	7.80
ALASKA	376.75	426.10	(*)	39.7	39.6	(*)	9.49	10.76	(*)
ARIZONA	252.06	285.32	287.68	39.2	40.3	39.9	6.43	7.08	7.21
Phoenix	255.02	281.18	280.40	39.6	40.4	40.0	6.44	6.96	7.01
Tucson	229.82	265.24	273.84	37.8	38.0	38.3	6.08	6.98	7.15
ARKANSAS	194.38	217.33	213.54	38.3	39.3	38.2	5.07	5.53	5.59
Fayetteville—Springdale	182.10	198.12	204.94	39.5	39.0	40.1	4.61	5.08	5.11
Fort Smith	194.43	223.47	205.35	37.9	39.0	37.0	5.13	5.73	5.55
Little Rock—North Little Rock	226.59	254.23	248.61	39.0	40.1	39.4	5.81	6.34	6.31
Pine Bluff	261.06	293.15	295.80	40.6	41.0	40.3	6.43	7.15	7.34
CALIFORNIA	261.97	296.11	294.78	38.3	39.8	39.2	6.84	7.44	7.52
Anaheim—Santa Ana—Garden Grove	243.66	277.17	278.99	38.8	40.7	40.2	6.28	6.81	6.94
Bakersfield	303.00	320.38	309.96	40.4	39.8	37.8	7.50	8.05	8.20
Fresno	248.99	278.88	274.48	38.3	40.3	39.1	6.24	6.92	7.02
Los Angeles—Long Beach	245.76	282.91	283.60	38.4	40.3	40.0	6.40	7.02	7.09
Modesto	253.55	278.10	275.63	38.3	38.2	37.5	6.62	7.28	7.35
Oxnard—Simi Valley—Ventura	237.69	261.10	252.97	38.9	39.5	37.7	6.11	6.61	6.71
Riverside—San Bernardino—Ontario	273.15	296.04	289.94	38.8	38.8	38.0	7.04	7.63	7.63
Sacramento	283.08	307.62	301.55	38.1	38.5	37.6	7.43	7.99	8.02
Salinas—Seaside—Monterey	236.12	279.37	272.31	35.4	37.6	36.7	6.67	7.43	7.42
San Diego	248.07	275.54	279.80	37.7	38.7	38.7	6.58	7.12	7.23
San Francisco—Oakland	321.09	348.08	344.16	38.5	39.6	38.8	8.34	8.79	8.87
San Jose	284.49	320.76	312.05	39.9	40.5	39.5	7.13	7.92	7.90
Santa Barbara—Santa Maria—Lompoc	221.86	258.31	248.64	35.9	37.6	37.0	6.18	6.87	6.72
Santa Rosa	243.38	265.62	257.97	37.5	38.0	36.8	6.49	6.99	7.01
Stockton	284.93	317.99	309.85	38.4	39.6	38.3	7.42	8.03	8.09
Vallejo—Fairfield—Napa	294.52	310.76	306.38	38.6	38.7	37.5	7.63	8.03	8.17
COLORADO	256.70	283.46	280.28	38.2	39.7	39.2	6.72	7.14	7.15
Denver—Boulder	252.41	280.53	279.63	37.9	39.4	39.0	6.66	7.12	7.17
CONNECTICUT	252.34	290.76	290.37	40.7	42.2	41.9	6.20	6.89	6.93
Bridgeport	265.56	306.56	305.15	41.3	43.3	43.1	6.43	7.08	7.08
Hartford	283.31	318.12	320.46	41.0	42.7	42.9	6.91	7.45	7.47
New Britain	253.59	299.75	299.75	41.3	42.7	42.7	6.14	7.02	7.02
New Haven—West Haven	255.36	279.35	287.05	39.9	40.9	42.4	6.40	6.83	6.77
Stamford	279.02	279.94	280.36	44.5	43.2	43.0	6.27	6.48	6.52
Waterbury	216.37	247.80	251.22	39.7	41.3	41.8	5.45	6.00	6.01
DELAWARE	242.76	299.43	297.48	35.7	40.3	40.2	6.80	7.43	7.40
Wilmington	282.03	338.75	348.09	35.7	39.9	41.0	7.90	8.49	8.49
DISTRICT OF COLUMBIA:									
Washington SMSA	292.22	320.66	315.79	38.5	39.2	38.7	7.59	8.18	8.16
FLORIDA	211.04	235.07	229.89	39.3	40.6	39.5	5.37	5.79	5.82
Fort Lauderdale—Hollywood	204.40	224.93	222.75	40.0	41.5	40.5	5.11	5.42	5.50
Jacksonville	247.86	273.77	270.01	40.7	40.8	40.3	6.09	6.71	6.70
Lakeland—Winter Haven		257.52	251.27	44.6	44.4	43.1	5.48	5.80	5.83
Miami	183.06	210.20	199.68	37.9	40.5	38.4	4.93	5.19	5.20
Orlando	217.95	251.30	246.65	39.7	41.4	40.5	5.49	6.07	6.09
Pensacola	297.70	288.69	284.95	44.3	41.3	41.0	6.72	6.99	6.95
Tampa—St. Petersburg	214.23	237.04	233.84	38.6	39.9	39.5	5.55	5.94	5.92
West Palm Beach—Boca Raton	238.19	256.85	239.38	40.1	40.9	38.3	5.94	6.28	6.25
GEORGIA	194.91	224.87	221.43	37.7	40.3	39.4	5.17	5.58	5.62
Atlanta	223.72	256.74	254.22	36.2	38.9	38.0	6.18	6.60	6.69
Savannah	265.68	299.88	316.64	40.5	42.0	44.1	6.56	7.14	7.18
HAWAII	241.98	260.68	254.88	37.4	37.4	37.1	6.47	6.97	6.87
Honolulu	243.10	269.37	257.11	37.4	37.7	37.7	6.50	7.07	6.82
IDAHO	244.83	263.71	252.00	37.9	37.3	35.0	6.46	7.07	7.20
Boise City	218.30	223.73	230.55	37.0	35.4	35.8	5.90	6.32	6.44

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
ILLINOIS	\$281.13	\$312.73	(*)	39.4	40.3	(*)	\$7.13	\$7.81	(*)
Bloomington—Normal	258.51	253.37	(*)	40.6	36.3	(*)	6.36	7.02	(*)
Champaign—Urbana—Rantoul	248.17	209.20	(*)	37.7	29.8	(*)	6.58	7.07	(*)
Chicago SMSA	269.84	292.93	(*)	39.0	39.8	(*)	6.92	7.41	(*)
Davenport—Rock Island—Moline	328.99	346.84	(*)	38.6	37.7	(*)	8.53	9.25	(*)
Decatur	318.37	292.86	(*)	41.0	35.2	(*)	7.76	8.36	(*)
Peoria	330.75	399.07	(*)	37.8	41.7	(*)	8.76	9.62	(*)
Rockford	283.70	311.47	(*)	40.5	41.2	(*)	7.00	7.61	(*)
Springfield	333.50	292.50	\$ 299.79	43.3	37.5	37.9	7.70	7.80	\$7.91
INDIANA	299.47	329.18	327.02	39.3	39.9	39.4	7.62	8.25	8.30
Gary—Hammond—East Chicago	441.23	438.62	(*)	43.6	40.5	(*)	10.12	10.83	(*)
Indianapolis	281.47	328.46	(*)	38.4	40.5	(*)	7.33	8.11	(*)
IOWA	297.86	335.64	340.35	39.4	40.1	39.9	7.56	8.37	8.53
Cedar Rapids	307.68	344.86	351.96	41.3	41.6	41.9	7.45	8.29	8.40
Des Moines	294.37	345.79	344.57	37.5	39.7	39.2	7.85	8.71	8.79
Dubuque	344.18	407.02	419.35	38.2	40.1	39.9	9.01	10.15	10.51
Sioux City	252.39	307.84	316.92	38.3	41.1	41.7	6.59	7.49	7.60
Waterloo—Cedar Falls	369.76	429.73	430.91	40.5	41.4	41.0	9.13	10.38	10.51
KANSAS	262.68	288.32	282.50	39.5	40.1	39.4	6.65	7.19	7.17
Topeka	301.89	299.20	302.12	43.5	40.0	39.7	6.94	7.48	7.61
Wichita	279.97	314.52	302.98	40.4	40.9	38.4	6.93	7.69	7.89
KENTUCKY	253.93	275.87	276.48	37.9	38.8	38.4	6.70	7.11	7.20
Lexington—Fayette	242.45	272.64	271.32	37.3	38.4	38.0	6.50	7.10	7.18
Louisville	285.70	310.70	315.19	38.4	38.5	39.3	7.44	8.07	8.02
LOUISIANA	279.60	313.83	322.98	40.0	41.9	42.0	6.99	7.49	7.69
Baton Rouge	358.11	409.16	424.45	41.4	42.4	43.4	8.65	9.65	9.78
New Orleans	261.23	320.03	311.88	38.7	42.9	41.2	6.75	7.46	7.57
Shreveport	249.56	272.56	273.20	39.3	40.2	40.0	6.35	6.78	6.83
MAINE	209.32	229.70	235.31	40.1	39.4	40.5	5.22	5.83	5.81
Lewiston—Auburn	167.16	190.64	190.35	36.9	37.9	38.3	4.53	5.03	4.97
Portland	203.97	219.74	225.10	39.3	39.1	39.7	5.19	5.62	5.67
MARYLAND	278.50	292.04	(*)	39.9	39.2	(*)	6.98	7.45	(*)
Baltimore	299.06	312.78	(*)	40.8	40.1	(*)	7.33	7.80	(*)
MASSACHUSETTS	230.69	256.80	(*)	39.3	40.0	(*)	5.87	6.42	(*)
Boston	256.48	271.76	(*)	40.2	39.5	(*)	6.38	6.88	(*)
Brockton	179.46	195.56	(*)	36.7	37.9	(*)	4.89	5.16	(*)
Fall River	171.59	195.20	(*)	35.6	38.2	(*)	4.82	5.11	(*)
Lawrence—Haverhill	229.32	267.30	(*)	39.2	41.7	(*)	5.85	6.41	(*)
Lowell	207.77	226.49	(*)	39.5	40.3	(*)	5.26	5.62	(*)
New Bedford	204.48	216.78	(*)	38.8	38.3	(*)	5.27	5.66	(*)
Springfield—Chicopee—Holyoke	231.24	259.94	(*)	39.8	41.0	(*)	5.81	6.34	(*)
Worcester	241.59	259.25	(*)	39.8	39.4	(*)	6.07	6.58	(*)
MICHIGAN	(*)	375.76	367.47	(*)	40.3	39.8	(*)	9.32	9.23
Ann Arbor	(*)	393.38	382.41	(*)	40.1	38.8	(*)	9.81	9.86
Battle Creek	(*)	351.96	352.83	(*)	39.4	39.8	(*)	8.93	8.87
Bay City	(*)	328.04	333.20	(*)	40.0	39.7	(*)	8.20	8.39
Detroit	(*)	406.27	396.79	(*)	41.1	40.3	(*)	9.89	9.85
Flint	(*)	432.26	426.18	(*)	41.4	40.9	(*)	10.44	10.42
Grand Rapids	(*)	306.72	306.76	(*)	39.7	39.7	(*)	7.73	7.73
Jackson	(*)	341.66	325.51	(*)	41.6	39.6	(*)	8.21	8.22
Kalamazoo—Portage	(*)	338.16	331.06	(*)	40.2	39.6	(*)	8.41	8.36
Lansing—East Lansing	(*)	391.76	383.27	(*)	38.7	38.8	(*)	10.12	9.88
Muskegon—Norton Shores—Muskegon Heights	(*)	327.69	324.09	(*)	40.5	39.6	(*)	8.09	8.18
Saginaw	(*)	414.21	406.92	(*)	38.9	38.6	(*)	10.65	10.54
MINNESOTA	263.35	292.59	292.99	38.9	39.7	39.7	6.77	7.37	7.38
Duluth—Superior	249.22	273.74	275.80	38.4	38.5	38.2	6.49	7.11	7.22
Minneapolis—St. Paul	278.85	312.76	312.00	39.0	40.2	40.0	7.15	7.78	7.80
St. Cloud	200.94	(*)	(*)	37.7	(*)	(*)	5.33	(*)	(*)

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
MISSISSIPPI	\$186.03	\$210.65	\$208.36	38.2	39.3	38.8	\$4.87	\$5.36	\$5.37
Jackson.....	199.69	238.14	229.20	38.7	41.2	40.0	5.16	5.78	5.73
MISSOURI	247.00	279.82	278.78	38.0	39.3	39.1	6.50	7.12	7.13
Kansas City.....	277.50	320.36	316.01	37.5	39.6	39.7	7.40	8.09	7.96
St. Joseph.....	233.31	267.18	266.74	38.5	39.7	39.4	6.06	6.73	6.77
St. Louis.....	286.30	317.60	314.82	38.9	39.8	39.6	7.36	7.98	7.95
Springfield.....	226.00	260.82	256.07	38.7	40.5	39.7	5.84	6.44	6.45
MONTANA	334.96	391.30	373.10	40.7	43.0	41.0	8.23	9.10	9.10
NEBRASKA	255.83	287.75	292.09	40.1	40.7	40.4	6.38	7.07	7.23
Lincoln.....	251.40	266.00	265.79	38.5	38.0	37.7	6.53	7.00	7.05
Omaha.....	268.20	293.83	290.94	39.5	39.6	39.0	6.79	7.42	7.46
NEVADA ¹	254.33	283.48	275.98	36.7	38.0	36.7	6.93	7.46	7.52
Las Vegas ¹	362.34	361.00	(*)	39.6	40.2	(*)	9.15	8.98	(*)
NEW HAMPSHIRE	(*)	224.36	226.97	(*)	39.5	40.1	(*)	5.68	5.66
Manchester.....	(*)	194.02	200.34	(*)	37.6	38.9	(*)	5.16	5.15
Nashua.....	(*)	241.80	242.20	(*)	39.9	40.1	(*)	6.05	6.04
NEW JERSEY	264.55	292.70	294.58	40.7	41.4	41.2	6.50	7.07	7.15
Atlantic City.....	201.37	216.79	213.57	38.8	37.9	37.8	5.19	5.72	5.65
Camden ²	254.56	280.70	289.52	39.9	40.8	40.1	6.38	6.88	7.22
Hackensack ³	243.19	272.30	272.24	41.5	41.7	41.5	5.86	6.53	6.56
Jersey City ³	259.60	289.05	293.04	40.0	41.0	41.1	6.49	7.05	7.13
New Brunswick—Perth Amboy—Sayreville ³	290.50	323.08	324.38	40.8	41.0	40.7	7.12	7.88	7.97
Newark ³	266.09	299.82	297.71	41.0	41.7	36.8	6.49	7.19	8.09
Paterson—Clifton—Passaic ³	247.04	275.22	269.33	40.3	41.2	40.5	6.13	6.68	6.65
Trenton.....	266.13	298.98	294.75	39.9	39.6	39.3	6.67	7.55	7.50
NEW MEXICO	207.48	223.74	222.30	39.0	39.6	39.0	5.32	5.65	5.70
Albuquerque.....	242.00	243.95	236.59	39.7	41.7	40.1	5.34	5.85	5.90
NEW YORK	249.62	275.32	(*)	38.7	39.5	(*)	6.45	6.97	(*)
Albany—Schenectady—Troy.....	262.58	291.45	(*)	38.9	40.2	(*)	6.75	7.25	(*)
Binghamton.....	233.16	261.29	(*)	40.2	40.7	(*)	5.80	6.42	(*)
Buffalo.....	333.20	362.70	(*)	40.0	40.3	(*)	8.33	9.00	(*)
Elmira.....	254.52	283.32	(*)	40.4	41.3	(*)	6.30	6.86	(*)
Monroe County ⁴	329.26	363.08	(*)	40.7	41.4	(*)	8.09	8.77	(*)
Nassau—Suffolk ⁵	234.57	263.48	(*)	38.9	39.8	(*)	6.03	6.62	(*)
New York—Northeastern New Jersey.....	237.07	264.80	(*)	38.8	39.7	(*)	6.11	6.67	(*)
New York and Nassau—Suffolk ⁵	216.13	242.44	(*)	37.2	38.3	(*)	5.81	6.33	(*)
New York SMSA ⁵	211.03	237.50	(*)	36.7	38.0	(*)	5.75	6.25	(*)
New York City ⁶	208.57	233.25	(*)	36.4	37.5	(*)	5.73	6.22	(*)
Poughkeepsie.....	251.54	267.45	(*)	40.9	40.4	(*)	6.15	6.62	(*)
Rochester.....	311.12	341.95	(*)	40.3	41.1	(*)	7.72	8.32	(*)
Rockland County ⁶	238.79	271.73	(*)	39.6	40.8	(*)	6.03	6.66	(*)
Syracuse.....	278.80	304.47	(*)	40.0	41.2	(*)	6.97	7.39	(*)
Utica—Rome.....	237.98	261.36	(*)	39.4	39.6	(*)	6.04	6.60	(*)
Westchester County ⁶	232.85	263.27	(*)	39.4	41.2	(*)	5.91	6.39	(*)
NORTH CAROLINA	182.11	209.20	205.67	38.5	40.0	39.4	4.73	5.23	5.22
Asheville.....	174.55	203.81	203.78	37.7	40.2	39.8	4.63	5.07	5.12
Charlotte—Gastonia.....	186.12	212.79	207.95	39.6	41.0	40.3	4.70	5.19	5.16
Greensboro—Winston-Salem—High Point.....	196.99	228.80	225.55	38.4	40.0	39.5	5.13	5.72	5.71
Raleigh—Durham.....	207.19	237.79	237.79	38.8	39.5	39.5	5.34	6.02	6.02
NORTH DAKOTA	221.29	232.10	242.08	37.7	36.9	37.3	5.87	6.29	6.49
Fargo—Moorhead.....	229.26	258.49	253.45	36.8	37.3	35.3	6.23	6.93	7.18
OHIO	304.07	339.05	336.94	39.8	40.8	40.4	7.64	8.31	8.34
Akron.....	293.14	346.94	346.06	39.4	41.6	41.1	7.44	8.34	8.42
Canton.....	319.20	341.88	337.98	39.9	39.8	39.3	8.00	8.59	8.60
Cincinnati.....	282.89	324.21	323.90	39.9	41.3	41.0	7.09	7.85	7.90
Cleveland.....	321.47	344.40	342.69	40.9	41.0	40.7	7.86	8.40	8.42
Columbus.....	264.42	297.79	296.29	39.0	39.6	39.4	6.78	7.52	7.52
Dayton.....	304.87	349.86	344.03	39.8	41.6	41.3	7.66	8.41	8.33
Toledo.....	308.46	346.76	346.63	38.8	40.7	40.4	7.95	8.52	8.58
Youngstown—Warren.....	354.60	395.41	392.44	39.4	39.7	39.6	9.00	9.96	9.91

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
OKLAHOMA	\$253.37	\$290.79	\$294.59	39.9	40.5	40.3	\$6.35	\$7.18	\$7.31
Oklahoma City	240.12	320.85	324.21	39.3	41.4	41.3	6.11	7.75	7.85
Tulsa	270.52	300.00	301.82	39.9	40.0	39.3	6.78	7.50	7.68
OREGON	296.84	316.61	303.68	38.5	38.1	36.5	7.71	8.31	8.32
Eugene—Springfield	329.27	348.08	(*)	40.6	39.6	(*)	8.11	8.79	(*)
Jackson County	307.28	324.30	(*)	39.7	39.5	(*)	7.74	8.21	(*)
Portland	285.77	315.70	(*)	37.9	38.5	(*)	7.54	8.20	(*)
PENNSYLVANIA	265.30	286.03	288.67	38.9	38.6	38.8	6.82	7.41	7.44
Allentown—Bethlehem—Easton	261.96	288.77	295.30	37.0	37.6	38.5	7.08	7.68	7.67
Altoona	232.85	256.74	249.45	39.4	38.9	38.2	5.91	6.60	6.53
Delaware Valley	267.80	297.04	294.39	38.7	39.5	39.2	6.92	7.52	7.51
Erle	264.27	308.43	304.84	39.8	41.4	40.7	6.64	7.45	7.49
Harrisburg	256.00	283.50	284.31	40.0	40.5	40.5	6.46	7.00	7.02
Johnstown	295.40	306.08	309.04	40.3	37.1	37.1	7.33	8.25	8.33
Lancaster	230.30	258.24	257.65	39.1	40.1	39.7	5.89	6.44	6.49
Northeast Pennsylvania	182.34	202.63	202.96	35.2	35.8	36.5	5.18	5.66	5.67
Philadelphia SMSA	266.08	294.57	294.32	38.9	39.7	39.4	6.84	7.42	7.47
Pittsburgh	339.80	358.49	363.09	40.5	39.7	39.9	8.39	9.03	9.10
Reading	224.85	269.79	269.60	36.8	39.1	39.3	6.11	6.90	6.86
Scranton	185.80	195.56	202.36	35.8	35.3	36.2	5.19	5.54	5.59
Wilkes-Barre—Hazleton	179.05	206.49	208.42	34.7	36.1	36.5	5.16	5.72	5.71
Williamsport	227.84	264.65	258.80	38.1	38.3	38.8	5.98	6.91	6.67
York	236.41	261.89	267.19	39.8	39.5	40.3	5.94	6.63	6.63
RHODE ISLAND	191.62	216.31	214.42	38.4	39.4	39.2	4.99	5.49	5.47
Providence—Warwick—Pawtucket	191.35	214.03	212.16	38.5	39.2	39.0	4.97	5.46	5.44
SOUTH CAROLINA	194.64	220.59	215.57	39.4	40.7	39.7	4.94	5.42	5.43
Charleston—North Charleston	233.45	249.42	251.29	41.1	40.1	40.4	5.68	6.22	6.22
Columbia	189.62	216.68	211.43	38.0	40.2	39.3	4.99	5.39	5.38
Greenville—Spartanburg	190.81	217.88	216.51	39.1	40.2	39.8	4.88	5.42	5.44
SOUTH DAKOTA	224.51	240.40	251.62	40.6	38.9	39.5	5.53	6.18	6.37
Rapid City	188.72	190.34	179.61	34.5	30.9	29.3	5.47	6.16	6.13
Sioux Falls	306.16	302.59	331.61	43.8	39.4	41.4	6.99	7.68	8.01
TENNESSEE	209.44	233.64	235.59	38.5	39.4	39.2	5.44	5.93	6.01
Chattanooga	212.31	241.12	241.43	39.1	41.5	41.2	5.43	5.81	5.86
Knoxville	254.78	278.99	276.11	39.5	40.2	39.9	6.45	6.94	6.92
Memphis	239.37	261.36	265.04	39.9	39.6	39.5	6.06	6.60	6.71
Nashville—Davidson	224.79	246.27	248.71	38.1	38.6	38.5	5.90	6.38	6.46
TEXAS	254.16	288.84	286.42	39.9	41.5	40.8	6.37	6.96	7.02
Amarillo	238.37	277.38	277.95	39.4	41.4	40.4	6.05	6.70	6.88
Austin	189.13	230.23	226.01	39.9	42.4	41.7	4.74	5.43	5.42
Beaumont—Port Arthur—Orange	391.67	402.90	357.98	41.8	42.1	38.7	9.37	9.57	9.25
Corpus Christi	280.74	292.92	305.27	38.3	38.9	39.8	7.33	7.53	7.67
Dallas—Fort Worth	228.74	264.21	263.41	39.1	40.9	40.4	5.85	6.46	6.52
El Paso	180.48	201.89	204.97	37.6	38.9	38.6	4.80	5.19	5.31
Galveston—Texas City	407.77	430.14	445.82	42.3	42.8	43.2	9.64	10.05	10.32
Houston	323.67	356.16	355.54	42.2	43.7	43.2	7.67	8.15	8.23
Lubbock	193.28	216.68	220.32	40.1	40.2	40.5	4.82	5.39	5.44
San Antonio	177.02	208.16	212.34	38.4	41.8	41.8	4.61	4.98	5.08
Waco	214.50	241.01	236.93	39.0	38.5	38.4	5.50	6.26	6.17
Wichita Falls	226.97	258.16	258.73	40.1	40.4	40.3	5.66	6.39	6.42
UTAH	234.46	266.95	266.64	38.0	39.2	38.7	6.17	6.81	6.89
Salt Lake City—Ogden	221.37	254.52	255.98	38.3	39.4	39.2	5.78	6.46	6.53
VERMONT	219.37	240.94	242.76	40.4	40.7	40.8	5.43	5.92	5.95
Burlington	245.09	261.67	269.84	41.4	41.8	41.9	5.92	6.26	6.44
Springfield	261.88	284.62	279.22	41.9	42.8	42.5	6.25	6.65	6.57
VIRGINIA	204.54	234.02	234.08	37.6	39.2	38.5	5.44	5.97	6.08
Bristol	193.68	212.54	213.96	36.0	36.9	35.9	5.38	5.76	5.96
Lynchburg	206.03	240.24	232.13	38.8	39.0	37.2	5.31	6.16	6.24
Norfolk—Virginia Beach—Portsmouth	232.62	264.38	253.17	38.9	40.8	40.9	5.98	6.48	6.19
Northern Virginia	241.40	271.76	273.24	39.9	40.5	40.6	6.05	6.71	6.73
Petersburg—Colonial Heights—Hopewell	261.23	274.83	299.49	39.7	37.7	40.2	6.58	7.29	7.45

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
VIRGINIA—Continued									
Richmond.....	\$263.98	\$296.25	\$304.15	39.4	39.5	39.5	\$6.70	\$7.50	\$7.70
Roanoke.....	193.72	216.55	221.34	38.9	38.6	38.9	4.98	5.61	5.69
WASHINGTON¹									
Seattle—Everett ²	311.76	(*)	(*)	38.3	(*)	(*)	8.14	(*)	(*)
Spokane ³	318.78	(*)	(*)	38.5	(*)	(*)	8.28	(*)	(*)
Tacoma ⁴	291.85	(*)	(*)	39.6	(*)	(*)	7.37	(*)	(*)
Tacoma ⁵	317.04	(*)	(*)	38.9	(*)	(*)	8.15	(*)	(*)
WEST VIRGINIA									
Charleston.....	296.86	309.29	311.26	39.9	39.3	39.5	7.44	7.87	7.88
Huntington—Ashland.....	325.50	352.29	360.40	42.0	41.3	42.3	7.75	8.53	8.52
Parkersburg—Marietta.....	314.78	345.39	345.65	39.2	39.7	37.9	8.03	8.70	9.12
Wheeling.....	301.18	321.55	329.25	41.6	40.6	40.9	7.24	7.92	8.05
Wheeling.....	300.49	335.60	335.24	39.8	40.0	40.1	7.55	8.39	8.36
WISCONSIN									
Appleton—Oshkosh.....	278.38	317.97	315.36	39.4	40.6	40.2	7.06	7.84	7.85
Eau Claire.....	277.42	309.32	311.18	41.0	41.2	41.4	6.76	7.52	7.51
Green Bay.....	283.49	281.19	310.94	39.9	40.8	40.3	7.11	6.89	7.73
Janesville—Beloit.....	292.00	327.50	327.74	41.4	41.7	41.9	7.05	7.85	7.82
Kenosha.....	280.13	301.80	283.17	37.4	39.2	38.6	7.70	7.70	7.33
La Crosse.....	307.92	371.11	359.18	38.4	40.1	39.3	8.01	9.25	9.15
Madison.....	237.11	269.37	275.07	39.9	40.3	40.3	5.95	6.68	6.83
Milwaukee.....	254.35	310.51	321.02	35.9	39.1	39.9	7.09	7.95	8.04
Racine.....	298.33	347.87	344.75	38.6	40.5	40.1	7.73	8.59	8.60
Racine.....	302.74	342.27	343.68	41.0	41.0	40.3	7.39	8.35	8.52
WYOMING									
Casper.....	235.92	267.29	273.04	35.3	37.7	37.3	6.59	7.09	7.32
Casper.....	317.99	302.40	317.04	40.1	37.8	36.4	7.93	8.00	8.71
VIRGIN ISLANDS									
.....	278.94	290.03	282.00	42.4	41.0	41.0	6.57	7.07	6.92

¹ Revised to 1979 benchmark; not strictly comparable with previously published data.

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

³ Subarea of New York—Northeastern New Jersey.

⁴ Subarea of Rochester Standard Metropolitan Statistical Area.

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

⁶ Subarea of New York Standard Metropolitan Statistical Area.

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

⁸ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

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

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

p = preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

ESTABLISHMENT DATA LABOR TURNOVER

D-1. Labor turnover rates in manufacturing, 1970 to date

(Per 100 employees)

YEAR	ANNUAL AVERAGE	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.
Total accessions													
1970.....	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
1971.....	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972.....	4.5	4.1	3.7	4.0	4.1	4.9	5.4	4.7	6.1	5.4	4.8	3.7	2.7
1973.....	4.8	4.7	4.1	4.5	4.6	5.4	5.9	5.2	6.3	5.8	5.2	3.8	2.6
1974.....	4.2	4.2	3.7	4.1	4.5	5.1	5.4	4.9	5.5	4.9	3.8	2.4	1.8
1975.....	3.7	2.9	2.7	3.2	3.7	4.0	4.5	4.6	5.2	4.6	3.7	2.8	2.2
1976.....	3.9	3.9	3.5	4.2	3.9	4.5	4.8	4.2	5.1	4.4	3.5	2.9	2.2
1977.....	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.3	5.3	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.....	3.9	4.0	3.4	3.8	3.9	4.7	4.8	4.3	4.9	4.4	4.1	2.9	2.2
1980.....	-	3.8	3.3	3.5	P3.1	-	-	-	-	-	-	-	-
New hires													
1970.....	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
1971.....	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972.....	3.3	2.6	2.5	2.8	2.9	3.7	4.2	3.5	4.5	4.3	3.9	2.9	2.1
1973.....	3.9	3.5	3.2	3.5	3.7	4.5	5.0	4.1	5.1	4.8	4.4	3.1	2.0
1974.....	3.2	3.2	2.8	3.1	3.3	4.0	4.3	3.7	4.2	3.9	2.9	1.7	1.0
1975.....	2.0	1.3	1.2	1.3	1.6	2.0	2.5	2.6	3.1	3.1	2.5	1.8	1.3
1976.....	2.6	2.1	2.1	2.7	2.6	3.1	3.6	2.9	3.6	3.2	2.5	1.9	1.3
1977.....	2.8	2.2	2.1	2.6	2.7	3.5	3.7	3.0	4.0	3.5	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.....	-	2.4	2.2	2.3	P2.0	-	-	-	-	-	-	-	-
Recalls													
1970.....	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
1971.....	.9	1.2	1.3	1.1	.9	.8	.8	.9	1.0	.8	.6	.6	.6
1972.....	.7	1.0	.7	.8	.8	.8	.7	.8	.9	.7	.6	.5	.5
1973.....	.7	.9	.7	.7	.7	.8	.7	.9	.8	.8	.7	.5	.5
1974.....	-	1.1	.9	.9	P.8	-	-	-	-	-	-	-	-
Total separations													
1970.....	4.8	4.8	4.3	4.4	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
1971.....	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972.....	4.3	4.1	3.5	3.9	3.8	3.9	4.2	4.8	5.5	5.5	4.4	3.8	3.7
1973.....	4.7	4.3	3.8	4.3	4.2	4.4	4.5	5.2	6.5	5.8	5.0	4.2	4.0
1974.....	4.9	5.0	4.1	4.4	4.3	4.4	4.2	4.9	6.2	5.5	5.1	5.0	5.2
1975.....	4.2	6.1	4.5	4.2	4.0	3.9	3.7	4.4	4.7	4.4	4.1	3.5	3.4
1976.....	3.8	3.7	3.0	3.5	3.6	3.4	3.6	4.3	4.9	4.7	4.1	3.4	3.5
1977.....	3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.3	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	4.8	4.1	3.5	3.4
1979.....	4.0	3.8	3.2	3.6	3.6	3.8	3.9	4.3	5.7	4.7	4.2	3.8	3.5
1980.....	-	4.1	3.5	3.7	P4.6	-	-	-	-	-	-	-	-
Quits													
1970.....	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
1971.....	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972.....	2.3	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	2.0	1.6
1973.....	2.8	2.3	2.1	2.5	2.5	2.8	2.8	2.8	4.6	4.0	3.1	2.3	1.6
1974.....	2.4	2.2	2.0	2.3	2.4	2.7	2.5	2.6	4.0	3.3	2.2	1.4	1.0
1975.....	1.4	1.1	.9	1.0	1.1	1.3	1.4	1.5	2.5	2.1	1.6	1.2	.9
1976.....	1.7	1.3	1.2	1.6	1.7	1.7	1.8	1.9	2.8	2.5	1.7	1.2	1.0
1977.....	1.8	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9	1.5	1.2
1978.....	2.1	1.5	1.4	1.8	2.0	2.1	2.2	2.1	3.5	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.....	-	1.6	1.5	1.6	P1.5	-	-	-	-	-	-	-	-
Layoffs													
1970.....	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
1971.....	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972.....	1.1	1.5	1.1	1.1	1.0	.9	1.1	1.7	.9	.9	1.0	1.0	1.3
1973.....	.9	1.1	.8	.8	.7	.7	.7	1.4	.8	.8	.8	1.1	1.6
1974.....	1.5	1.8	1.3	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975.....	2.1	4.0	2.9	2.5	2.1	1.8	1.6	2.0	1.3	1.5	1.6	1.7	1.9
1976.....	1.3	1.6	1.0	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977.....	1.1	1.7	1.4	1.0	.9	.8	.8	1.5	1.0	1.1	1.1	1.1	1.5
1978.....	.9	1.2	.9	.9	.8	.7	.7	1.0	.8	.8	.9	1.0	1.4
1979.....	1.1	1.1	.8	.8	.9	.7	.8	1.4	1.3	1.1	1.2	1.5	1.7
1980.....	-	1.6	1.2	1.3	P2.3	-	-	-	-	-	-	-	-

p-preliminary.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates, by industry

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P
	MANUFACTURING	3.5	3.1	2.3	2.0	0.9	0.8	3.7	4.6	1.6	1.5	1.3	2.3
24, 25, 32-39	DURABLE GOODS	3.1	2.6	2.0	1.7	.8	.7	3.5	4.7	1.3	1.2	1.3	2.6
20-23, 26-31	NONDURABLE GOODS	4.0	3.7	2.8	2.6	1.0	.9	3.9	4.5	2.0	1.9	1.2	1.7
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	4.4	4.1	2.9	2.3	1.3	1.6	6.5	10.0	2.3	2.5	3.2	6.4
242	Sawmills and planing mills	3.5	-	2.5	-	.9	-	5.0	-	2.0	-	2.2	-
2421	Sawmills and planing mills, general	2.9	-	2.0	-	.8	-	4.9	-	1.7	-	2.4	-
243	Millwork, plywood, and structural members	3.8	-	2.5	-	1.2	-	5.8	-	1.9	-	3.1	-
2431	Millwork	3.1	-	2.3	-	.7	-	5.7	-	1.9	-	3.2	-
244	Wooden containers	6.2	-	4.9	-	1.3	-	6.4	-	4.1	-	1.3	-
245	Wood buildings and mobile homes	8.0	-	5.6	-	2.0	-	11.8	-	4.7	-	5.8	-
2451	Mobile homes	9.1	-	6.8	-	1.8	-	14.1	-	5.6	-	6.8	-
249	Miscellaneous wood products	4.9	-	3.4	-	1.3	-	5.5	-	2.6	-	1.7	-
25	FURNITURE AND FIXTURES	4.0	3.4	3.2	2.8	.6	.4	4.5	5.1	2.5	2.3	.9	1.8
251	Household furniture	4.2	-	3.4	-	.6	-	4.8	-	2.8	-	.9	-
2511	Wood household furniture	3.5	-	3.2	-	.2	-	4.5	-	2.8	-	.6	-
2512	Upholstered household furniture	4.1	-	3.3	-	.6	-	4.5	-	2.6	-	.9	-
2515	Mattresses and bedspings	5.0	-	4.4	-	.5	-	6.0	-	3.1	-	1.4	-
252	Office furniture	3.2	-	2.6	-	.6	-	2.9	-	1.9	-	.4	-
254	Partitions and fixtures	4.2	-	3.4	-	.7	-	4.3	-	2.2	-	1.2	-
32	STONE, CLAY, AND GLASS PRODUCTS	3.9	3.6	2.0	1.8	1.7	1.6	3.7	4.5	1.3	1.3	1.6	2.3
322	Glass and glassware, pressed or blown	2.3	-	1.1	-	.9	-	2.7	-	.8	-	1.1	-
3221	Glass containers	2.1	-	1.1	-	.9	-	2.8	-	.9	-	1.1	-
3229	Pressed and blown glass, nec	2.5	-	1.1	-	.9	-	2.7	-	.6	-	1.2	-
323	Products of purchased glass	3.8	-	1.8	-	1.9	-	4.3	-	1.3	-	2.1	-
324	Cement, hydraulic	1.7	-	.7	-	.9	-	1.5	-	.2	-	.6	-
325	Structural clay products	5.6	-	2.8	-	2.7	-	6.5	-	2.8	-	2.7	-
326	Pottery and related products	3.2	-	2.2	-	.8	-	3.4	-	1.4	-	1.3	-
327	Concrete, gypsum, and plaster products	5.9	-	3.3	-	2.5	-	4.6	-	1.8	-	1.8	-
329	Misc. nonmetallic mineral products	2.4	-	1.4	-	.8	-	3.3	-	1.1	-	1.6	-
33	PRIMARY METAL INDUSTRIES	2.7	2.0	1.2	.9	1.2	.8	2.7	3.8	.6	.6	1.2	2.4
331	Blast furnace and basic steel products	2.6	-	.5	-	1.7	-	2.6	-	.3	-	1.5	-
3312	Blast furnaces and steel mills	2.6	-	.3	-	1.9	-	2.6	-	.2	-	1.6	-
332	Iron and steel foundries	3.3	-	1.6	-	1.1	-	3.2	-	1.1	-	1.2	-
3321	Gray iron foundries	3.4	-	1.5	-	1.1	-	3.5	-	1.2	-	1.6	-
3325	Steel foundries, nec	2.8	-	1.9	-	.7	-	2.7	-	1.0	-	.6	-
333	Primary nonferrous metals	1.9	-	1.2	-	.6	-	1.1	-	.3	-	.3	-
335	Nonferrous rolling and drawing	2.2	-	1.4	-	.6	-	1.8	-	.6	-	.6	-
3351	Copper rolling and drawing	1.8	-	1.1	-	.6	-	2.3	-	.6	-	1.1	-
3353	Aluminum sheet, plate, and foil	1.6	-	.7	-	.8	-	1.0	-	.2	-	.5	-
3357	Nonferrous wire drawing and insulating	2.3	-	1.5	-	.5	-	1.7	-	.6	-	.5	-
336	Nonferrous foundries	3.7	-	2.5	-	.9	-	4.3	-	1.7	-	1.6	-
3361	Aluminum foundries	3.8	-	2.5	-	1.0	-	4.2	-	1.8	-	1.4	-
34	FABRICATED METAL PRODUCTS	3.6	3.0	2.3	1.9	1.0	.9	4.0	6.0	1.5	1.5	1.6	3.6
341	Metal cans and shipping containers	4.5	-	1.5	-	2.7	-	5.0	-	.7	-	3.4	-
3411	Metal cans	4.5	-	1.2	-	3.0	-	5.5	-	.6	-	4.1	-
342	Cutlery, hand tools, and hardware	3.2	-	1.9	-	.9	-	3.4	-	1.4	-	1.3	-
3423, 5	Hand and edge tools, and hand saws and blades	2.8	-	2.1	-	.5	-	3.3	-	1.4	-	1.1	-
3429	Hardware, nec	3.4	-	1.7	-	1.3	-	3.5	-	1.4	-	1.5	-
343	Plumbing and heating, except electric	2.9	-	2.0	-	.7	-	4.4	-	1.5	-	1.9	-
344	Fabricated structural metal products	3.7	-	2.7	-	.8	-	4.2	-	1.9	-	1.5	-
3441	Fabricated structural metal	4.2	-	3.3	-	.7	-	5.0	-	2.1	-	1.7	-
3442	Metal doors, sash, and trim	4.4	-	2.6	-	1.7	-	5.4	-	2.4	-	2.1	-
3443	Fabricated plate work (boiler shops)	2.5	-	1.8	-	.5	-	2.8	-	1.1	-	1.0	-
3444	Sheet metal work	4.5	-	3.4	-	1.0	-	4.6	-	2.1	-	1.5	-
345	Screw machine products, bolts, etc.	3.4	-	2.7	-	.5	-	3.3	-	1.8	-	.6	-
3451	Screw machine products	3.8	-	3.3	-	.4	-	3.5	-	2.3	-	.4	-
3452	Bolts, nuts, rivets, and washers	3.0	-	2.2	-	.5	-	3.1	-	1.3	-	.7	-
346	Metal forgings and stampings	4.1	-	1.4	-	1.8	-	4.2	-	1.0	-	2.4	-
3462	Iron and steel forgings	2.6	-	1.2	-	1.3	-	3.7	-	.7	-	2.0	-
3465	Automotive stampings	4.9	-	.2	-	2.4	-	5.6	-	.5	-	4.3	-
3469	Metal stampings, nec	4.2	-	2.5	-	1.6	-	3.6	-	1.5	-	1.3	-
347	Metal services, nec	5.0	-	4.2	-	.7	-	5.1	-	2.5	-	1.3	-
348	Ordnance and accessories, nec	2.3	-	1.1	-	.8	-	2.6	-	.8	-	1.1	-
349	Misc. fabricated metal products	3.0	-	2.2	-	.7	-	3.6	-	1.5	-	1.3	-
3494	Valves and pipe fittings	2.6	-	1.8	-	.6	-	2.5	-	1.0	-	.8	-
3496	Misc. fabricated wire products	3.7	-	3.0	-	.6	-	5.4	-	2.5	-	2.0	-

See footnotes at end of table.

ESTABLISHMENT DATA
LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P
35	MACHINERY, EXCEPT ELECTRICAL	2.5	2.0	1.8	1.6	0.4	0.3	2.6	3.6	1.1	1.1	0.8	1.8
351	Engines and turbines	2.4	-	.5	-	.8	-	2.8	-	.4	-	1.0	-
3511	Turbines and turbine generator sets	1.8	-	.8	-	.3	-	1.9	-	.2	-	.2	-
3519	Internal combustion engines, nec	2.6	-	.4	-	1.1	-	3.2	-	.5	-	1.4	-
352	Farm and garden machinery	1.9	-	1.4	-	.3	-	3.2	-	1.1	-	1.5	-
3523	Farm machinery and equipment	1.8	-	1.4	-	.2	-	2.7	-	1.0	-	1.1	-
353	Construction and related machinery	2.2	-	1.7	-	.3	-	2.1	-	1.0	-	.6	-
3531	Construction machinery	1.9	-	1.2	-	.5	-	2.1	-	.6	-	1.0	-
3533	Oil field machinery	3.3	-	3.2	-	.1	-	2.3	-	1.6	-	(1)	-
354	Metalworking machinery	2.6	-	2.1	-	.3	-	2.6	-	1.2	-	.6	-
3541	Machine tools, metal cutting types	1.9	-	1.7	-	.1	-	1.4	-	.8	-	.1	-
3544	Special dies, tools, jigs, and fixtures	3.2	-	2.3	-	.6	-	3.6	-	1.3	-	1.3	-
3545	Machine tool accessories	2.7	-	2.5	-	.1	-	1.9	-	1.2	-	.1	-
355	Special industry machinery	2.3	-	1.8	-	.2	-	2.1	-	1.0	-	.5	-
3551	Food products machinery	2.1	-	1.8	-	.3	-	2.5	-	1.1	-	.8	-
3552	Textile machinery	2.9	-	2.2	-	.4	-	3.3	-	1.3	-	1.3	-
356	General industrial machinery	2.2	-	1.6	-	.3	-	2.6	-	1.0	-	1.0	-
3561	Pumps and pumping equipment	2.1	-	1.7	-	.2	-	2.5	-	1.0	-	.9	-
3562	Ball and roller bearings	2.7	-	1.4	-	.1	-	2.9	-	.6	-	1.5	-
3564	Blowers and fans	2.6	-	2.0	-	.4	-	3.2	-	1.2	-	1.5	-
357	Office and computing machines	2.3	-	2.0	-	.2	-	2.2	-	1.2	-	.2	-
3573	Electronic computing equipment	2.5	-	2.1	-	.2	-	2.1	-	1.2	-	.2	-
358	Refrigeration and service machinery	2.6	-	1.5	-	.6	-	3.1	-	.8	-	1.5	-
3585	Refrigeration and heating equipment	2.4	-	1.1	-	.6	-	2.9	-	.7	-	1.3	-
359	Misc. machinery, except electrical	3.7	-	2.8	-	.7	-	3.6	-	1.8	-	.5	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	2.9	2.6	2.1	1.8	.4	.5	2.9	3.5	1.3	1.2	.6	1.4
361	Electric distributing equipment	3.1	-	1.9	-	.5	-	3.2	-	1.2	-	.9	-
3612	Transformers	2.8	-	1.4	-	.6	-	3.1	-	1.0	-	.9	-
3613	Switchgear and switchboard apparatus	3.3	-	2.3	-	.5	-	3.4	-	1.3	-	.8	-
362	Electrical industrial apparatus	2.6	-	1.7	-	.5	-	2.6	-	1.0	-	.5	-
3621	Motors and generators	2.6	-	1.5	-	.7	-	2.5	-	.9	-	.5	-
3622	Industrial controls	2.9	-	2.1	-	.3	-	2.6	-	1.1	-	.4	-
363	Household appliances	2.7	-	1.4	-	.6	-	3.5	-	1.1	-	1.0	-
3632	Household refrigerators and freezers	2.9	-	.5	-	.9	-	3.4	-	.7	-	.7	-
3633	Household laundry equipment	1.4	-	.3	-	.6	-	4.0	-	.3	-	2.4	-
3634	Electric housewares and fans	3.3	-	2.4	-	.5	-	3.3	-	1.9	-	.3	-
364	Electric lighting and wiring equipment	3.2	-	2.4	-	.4	-	3.1	-	1.4	-	.9	-
3641	Electric lamps	1.7	-	1.0	-	.2	-	3.3	-	.7	-	1.6	-
3643	Current-carrying wiring devices	3.0	-	2.6	-	.1	-	2.6	-	1.4	-	.4	-
365	Radio and TV receiving equipment	3.3	-	1.7	-	.7	-	3.7	-	1.0	-	1.2	-
3651	Radio and TV receiving sets	3.2	-	1.8	-	.3	-	3.2	-	.9	-	.8	-
366	Communication equipment	2.3	-	1.8	-	.2	-	1.7	-	1.0	-	.2	-
3661	Telephone and telegraph apparatus	1.2	-	.9	-	.1	-	1.0	-	.4	-	.2	-
3662	Radio and TV communication equipment	2.7	-	2.2	-	.2	-	2.1	-	1.2	-	.2	-
367	Electronic components and accessories	3.5	-	3.0	-	.3	-	3.5	-	2.0	-	.6	-
3671-3	Electronic tubes	1.9	-	1.4	-	.1	-	2.1	-	.9	-	.2	-
3674	Semiconductors and related devices	3.1	-	2.7	-	.2	-	2.6	-	1.5	-	.1	-
3679	Electronic components, nec	3.9	-	3.4	-	.2	-	4.3	-	2.4	-	.9	-
369	Misc. electrical equipment and supplies	2.8	-	1.3	-	1.0	-	3.2	-	1.0	-	1.3	-
3694	Engine electrical equipment	2.9	-	.6	-	1.2	-	2.4	-	.6	-	.9	-
37	TRANSPORTATION EQUIPMENT	3.0	-	1.4	-	1.2	-	4.1	-	.9	-	2.3	-
371	Motor vehicles and equipment	2.9	-	.5	-	1.7	-	4.9	-	.6	-	3.2	-
3711	Motor vehicles and car bodies	2.4	-	.3	-	1.2	-	5.1	-	.5	-	3.7	-
3713	Truck and bus bodies	3.7	-	1.7	-	1.8	-	6.3	-	1.2	-	4.5	-
3714	Motor vehicle parts and accessories	3.3	-	.5	-	2.3	-	4.5	-	.6	-	2.6	-
3715	Truck trailers	3.0	-	1.6	-	1.1	-	6.3	-	1.1	-	3.9	-
372	Aircraft and parts	2.4	-	1.9	-	.1	-	1.8	-	.8	-	.4	-
3721	Aircraft	1.9	-	1.5	-	.2	-	1.7	-	.7	-	.4	-
3724	Aircraft engines and engine parts	1.9	-	1.5	-	.1	-	1.4	-	.5	-	.2	-
3728	Aircraft equipment, nec	4.2	-	3.9	-	.2	-	2.8	-	1.6	-	.3	-
373	Ship and boat building and repairing	5.5	-	2.7	-	2.7	-	7.0	-	1.9	-	3.7	-
3731	Ship building and repairing	5.6	-	2.5	-	2.9	-	6.0	-	1.7	-	3.1	-
3732	Boat building and repairing	5.1	-	3.2	-	1.8	-	10.5	-	2.9	-	6.0	-
374	Railroad equipment	2.4	-	.6	-	1.1	-	5.2	-	.4	-	3.3	-
376	Guided missiles, space vehicles, parts	1.8	-	1.7	-	.1	-	1.2	-	.7	-	.2	-
3761	Guided missiles and space vehicles	1.8	-	1.6	-	.1	-	1.0	-	.5	-	.1	-
379	Miscellaneous transportation equipment	4.8	-	3.4	-	1.1	-	6.8	-	2.4	-	5.3	-
38	INSTRUMENTS AND RELATED PRODUCTS	2.8	2.4	2.3	2.0	.2	.2	2.2	3.0	1.2	1.3	.4	.9
381	Engineering and scientific instruments	2.4	-	2.3	-	.1	-	2.0	-	1.3	-	.3	-
382	Measuring and controlling devices	2.8	-	2.3	-	.1	-	2.3	-	1.2	-	.4	-
3822	Environmental controls	3.2	-	2.4	-	.4	-	2.9	-	1.1	-	.6	-
3823	Process control instruments	2.4	-	2.2	-	(1)	-	2.1	-	1.2	-	.3	-
3825	Instruments to measure electricity	2.6	-	2.2	-	(1)	-	1.9	-	1.2	-	.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P	Mar. 1980	Apr. 1980 ^P
	INSTRUMENTS AND RELATED PRODUCTS—Cont'd												
383	Optical instruments and lenses	3.5	-	3.4	-	0.1	-	2.1	-	1.4	-	0.1	-
384	Medical instruments and supplies	3.5	-	3.1	-	.2	-	2.6	-	1.5	-	.3	-
3841	Surgical and medical instruments	4.0	-	3.5	-	.1	-	2.7	-	1.7	-	.3	-
3842	Surgical appliances and supplies	3.5	-	3.0	-	.4	-	2.5	-	1.4	-	.3	-
385	Ophthalmic goods	3.8	-	3.0	-	.5	-	3.2	-	1.9	-	.5	-
386	Photographic equipment and supplies	1.3	-	1.1	-	(1)	-	1.0	-	.5	-	.1	-
387	Watches, clocks, and watchcases	4.2	-	2.1	-	1.7	-	4.6	-	1.7	-	1.5	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	4.6	4.4	2.9	3.1	1.4	1.1	4.8	5.2	2.0	1.9	1.6	2.2
391	Jewelry, silverware, and plated ware	3.7	-	1.7	-	1.9	-	4.7	-	1.7	-	2.4	-
393	Musical instruments	3.4	-	2.6	-	.5	-	6.0	-	2.3	-	2.5	-
394	Toys and sporting goods	6.9	-	4.3	-	2.1	-	5.4	-	2.5	-	1.7	-
3942.4	Dolls, games, toys, and children's vehicles	8.5	-	4.7	-	3.3	-	5.8	-	2.7	-	1.5	-
3949	Sporting and athletic goods, nec	5.5	-	3.5	-	1.1	-	5.1	-	2.4	-	1.5	-
395	Pens, pencils, office and art supplies	3.3	-	2.7	-	.5	-	3.2	-	1.7	-	.6	-
396	Costume jewelry and notions	4.8	-	2.5	-	2.1	-	6.6	-	2.3	-	3.3	-
399	Miscellaneous manufactures	3.6	-	2.7	-	.9	-	3.8	-	1.6	-	1.4	-
	NONDURABLE GOODS												
20	FOOD AND KINDRED PRODUCTS	5.2	5.4	3.1	3.3	1.8	1.8	5.2	5.9	2.2	2.3	2.1	2.8
201	Meat products	6.6	-	4.3	-	1.8	-	6.6	-	3.7	-	1.5	-
2011	Meat packing plants	4.3	-	1.6	-	2.0	-	4.8	-	1.4	-	2.6	-
2013	Sausages and other prepared meats	3.8	-	2.1	-	1.6	-	4.3	-	1.4	-	2.1	-
2016	Poultry dressing plants	10.3	-	8.6	-	1.1	-	9.9	-	7.9	-	.9	-
202	Dairy products	3.4	-	2.7	-	.6	-	2.8	-	1.5	-	.7	-
203	Preserved fruits and vegetables	10.4	-	4.3	-	5.9	-	9.3	-	2.7	-	5.3	-
204	Grain mill products	2.8	-	1.9	-	.7	-	4.0	-	1.5	-	1.6	-
205	Bakery products	2.6	-	2.1	-	.4	-	2.6	-	1.4	-	.6	-
2051	Bread, cake, and related products	2.3	-	2.0	-	.2	-	2.5	-	1.5	-	.5	-
2052	Cookies and crackers	4.1	-	2.4	-	1.4	-	2.9	-	1.1	-	1.0	-
206	Sugar and confectionery products	3.6	-	1.7	-	1.9	-	7.8	-	1.3	-	4.7	-
207	Fats and oils	2.8	-	2.2	-	.5	-	3.1	-	1.5	-	.8	-
208	Beverages	4.3	-	2.6	-	1.7	-	3.2	-	1.3	-	1.2	-
2082	Malt beverages	5.9	-	1.5	-	4.3	-	3.8	-	.4	-	2.6	-
2086	Bottled and canned soft drinks	3.7	-	3.3	-	.4	-	2.8	-	1.8	-	.3	-
209	Misc. foods and kindred products	5.8	-	3.4	-	2.1	-	5.9	-	2.5	-	2.8	-
21	TOBACCO MANUFACTURES	1.8	-	.7	-	.4	-	4.8	-	.4	-	3.2	-
211	Cigarettes	1.3	-	.4	-	.1	-	1.0	-	.1	-	(1)	-
22	TEXTILE MILL PRODUCTS	4.3	4.0	3.4	3.2	.6	.5	4.0	4.8	2.5	2.7	.5	1.1
221	Weaving mills, cotton	3.8	-	3.0	-	.1	-	3.7	-	2.4	-	.1	-
222	Weaving mills, synthetics	3.6	-	2.9	-	.3	-	3.7	-	2.4	-	.3	-
223	Weaving and finishing mills, wool	4.2	-	3.5	-	.6	-	4.3	-	2.4	-	1.2	-
224	Narrow fabric mills	5.2	-	4.0	-	.8	-	3.8	-	2.4	-	.6	-
225	Knitting mills	4.8	-	3.8	-	.8	-	4.0	-	2.5	-	.6	-
2251	Women's hosiery, except socks	3.5	-	3.3	-	.1	-	3.7	-	2.5	-	.2	-
2252	Hosiery, nec	5.3	-	4.5	-	.3	-	4.5	-	3.5	-	.3	-
2253	Knit outerwear mills	5.2	-	3.9	-	1.0	-	3.9	-	2.4	-	.6	-
2254	Knit underwear mills	4.6	-	4.1	-	.4	-	3.5	-	2.5	-	.2	-
2257	Circular knit fabric mills	4.9	-	3.5	-	1.2	-	3.8	-	2.1	-	.6	-
226	Textile finishing, except wool	4.1	-	3.3	-	.5	-	4.0	-	2.3	-	.6	-
227	Floor covering mills	3.8	-	2.4	-	1.0	-	3.4	-	1.8	-	.6	-
228	Yarn and thread mills	5.4	-	4.4	-	.7	-	5.4	-	3.7	-	.5	-
229	Miscellaneous textile goods	3.6	-	2.1	-	1.3	-	3.3	-	1.5	-	.9	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	5.4	5.2	3.5	3.5	1.3	1.5	5.1	5.6	3.0	2.8	1.4	2.0
231	Men's and boys' suits and coats	3.5	-	2.5	-	.7	-	5.2	-	1.8	-	2.5	-
232	Men's and boys' furnishings	5.5	-	4.3	-	1.0	-	5.2	-	3.8	-	.8	-
2321	Men's and boys' shirts and nightwear	4.8	-	3.7	-	.7	-	4.5	-	3.3	-	.5	-
2327	Men's and boys' separate trousers	5.1	-	4.5	-	.4	-	4.8	-	3.9	-	.4	-
2328	Men's and boys' work clothing	6.2	-	5.3	-	.8	-	5.7	-	4.7	-	.3	-
233	Women's and misses' outerwear	5.6	-	3.7	-	1.8	-	4.8	-	2.6	-	1.4	-
234	Women's and children's undergarments	4.2	-	3.3	-	.8	-	4.6	-	2.8	-	1.2	-
2341	Women's and children's underwear	4.3	-	3.2	-	.9	-	4.7	-	3.0	-	1.0	-
2342	Brassieres and allied garments	4.1	-	3.5	-	.5	-	4.5	-	2.1	-	1.7	-
238	Children's outerwear	5.8	-	4.7	-	.9	-	6.1	-	3.6	-	1.6	-
2381	Misc. apparel and accessories	5.6	-	3.8	-	1.6	-	5.1	-	2.4	-	1.9	-
2381	Misc. fabricated textile products	5.5	-	3.8	-	1.5	-	5.5	-	2.7	-	1.8	-
26	PAPER AND ALLIED PRODUCTS	2.5	2.2	1.6	1.4	.7	.7	2.8	2.9	1.0	.9	1.1	1.3
261,2.6	Paper and pulp mills	1.3	-	.7	-	.4	-	1.7	-	.4	-	.8	-
262	Paper mills, except building paper	1.3	-	.7	-	.5	-	1.4	-	.4	-	.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Mar. 1980	Apr. 1980 ^p	Mar. 1980	Apr. 1980 ^p	Mar. 1980	Apr. 1980 ^p	Mar. 1980	Apr. 1980 ^p	Mar. 1980	Apr. 1980 ^p	Mar. 1980	Apr. 1980 ^p
PAPER AND ALLIED PRODUCTS—Continued													
263	Paperboard mills	2.1	-	0.7	-	1.1	-	2.7	-	0.7	-	1.3	-
264	Misc. converted paper products	3.2	-	2.4	-	.7	-	3.5	-	1.3	-	1.1	-
265	Paperboard containers and boxes	2.9	-	1.8	-	.9	-	3.2	-	1.3	-	1.1	-
2651	Folding paperboard boxes	3.2	-	1.6	-	1.3	-	3.3	-	1.1	-	1.5	-
2653	Corrugated and solid fiber boxes	2.0	-	1.4	-	.5	-	2.7	-	1.3	-	.7	-
27	PRINTING AND PUBLISHING	3.1	2.8	2.6	2.4	.4	0.3	3.1	3.1	1.8	1.8	.6	0.7
271	Newspapers	3.1	-	2.9	-	.1	-	3.1	-	2.4	-	.1	-
272	Periodicals	2.4	-	2.2	-	.1	-	2.6	-	1.6	-	.4	-
273	Books	2.9	-	2.4	-	.5	-	2.9	-	1.5	-	1.0	-
274	Miscellaneous publishing	2.6	-	2.3	-	.3	-	2.3	-	1.6	-	.2	-
275	Commercial printing	3.3	-	2.5	-	.7	-	3.1	-	1.5	-	1.0	-
2751	Commercial printing, letterpress	3.8	-	2.9	-	.8	-	3.3	-	1.7	-	1.1	-
2752	Commercial printing, lithographic	3.1	-	2.4	-	.6	-	3.1	-	1.4	-	1.0	-
278	Blankbooks and bookbinding	4.8	-	4.1	-	.5	-	4.2	-	2.3	-	1.2	-
28	CHEMICALS AND ALLIED PRODUCTS	1.7	1.5	1.3	1.2	.3	.2	1.5	1.7	.7	.6	.3	.6
281	Industrial inorganic chemicals	1.3	-	1.0	-	.1	-	1.1	-	.5	-	.2	-
2819	Industrial inorganic chemicals, nec	1.2	-	1.0	-	.1	-	1.0	-	.5	-	.2	-
282	Plastics materials and synthetics	1.1	-	.8	-	.1	-	1.0	-	.4	-	.2	-
2821	Plastics materials and resins	1.3	-	1.1	-	.1	-	1.3	-	.7	-	.2	-
2824	Organic fibers, noncellulosic	.8	-	.6	-	.1	-	.7	-	.2	-	.1	-
283	Drugs	1.5	-	1.2	-	.2	-	1.2	-	.6	-	.2	-
2834	Pharmaceutical preparations	1.6	-	1.2	-	.2	-	1.3	-	.7	-	.2	-
284	Soap, cleaners, and toilet goods	2.7	-	1.5	-	.7	-	2.1	-	1.0	-	.5	-
2841	Soap and other detergents	2.1	-	1.0	-	1.0	-	1.4	-	.6	-	.3	-
2844	Toilet preparations	3.5	-	2.5	-	.8	-	2.4	-	1.1	-	.5	-
285	Paints and allied products	2.3	-	1.9	-	.3	-	2.3	-	1.0	-	.4	-
286	Industrial organic chemicals	1.1	-	.9	-	.1	-	1.2	-	.5	-	.3	-
287	Agricultural chemicals	3.3	-	2.7	-	.4	-	2.2	-	1.1	-	.4	-
289	Miscellaneous chemical products	2.3	-	1.6	-	.6	-	2.3	-	1.0	-	.5	-
29	PETROLEUM AND COAL PRODUCTS	2.2	2.6	1.5	1.8	.6	.8	2.0	2.8	.8	.7	.6	1.5
291	Petroleum refining	1.2	-	1.1	-	(1)	-	1.1	-	.6	-	(1)	-
295	Paving and roofing materials	5.6	-	2.6	-	2.6	-	5.1	-	1.6	-	2.7	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	4.1	3.1	2.9	2.1	.9	.7	4.8	6.7	2.2	1.9	1.6	3.6
301	Tires and inner tubes	1.3	-	.4	-	.5	-	2.3	-	.3	-	1.4	-
302	Rubber and plastics footwear	7.2	-	5.5	-	1.4	-	7.9	-	4.6	-	1.2	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting	2.1	-	1.1	-	.7	-	5.6	-	1.5	-	3.4	-
306	Fabricated rubber products, nec	3.4	-	1.6	-	1.5	-	4.1	-	1.2	-	1.8	-
307	Miscellaneous plastics products	4.9	-	3.7	-	.8	-	5.3	-	2.7	-	1.5	-
31	LEATHER AND LEATHER PRODUCTS	7.1	6.5	4.6	4.8	2.1	1.3	6.5	6.7	3.3	3.6	2.1	2.0
311	Leather tanning and finishing	6.3	-	3.7	-	2.5	-	4.9	-	2.1	-	2.0	-
314	Footwear, except rubber	6.9	-	5.1	-	1.3	-	6.8	-	3.8	-	1.7	-
3143	Men's footwear, except athletic	6.1	-	5.0	-	.7	-	6.7	-	4.0	-	.7	-
3144	Women's footwear, except athletic	7.0	-	4.3	-	2.0	-	7.4	-	3.5	-	3.2	-
NONMANUFACTURING:													
-	MINING	5.1	5.1	4.0	3.8	.7	.9	4.7	4.1	3.2	2.6	.5	.5
10	METAL MINING	2.7	2.2	1.7	1.3	.4	.4	2.4	2.0	.9	1.0	.1	.2
101	Iron ores	3.7	-	.6	-	1.3	-	2.1	-	.3	-	.1	-
102	Copper ores	1.6	-	1.5	-	(1)	-	1.0	-	.5	-	(1)	-
12	BITUMINOUS COAL AND LIGNITE MINING	1.4	1.7	.7	.9	.4	.6	1.7	1.4	.4	.5	.6	.5
13	OIL AND GAS EXTRACTION	7.4	7.2	6.4	6.1	.6	.7	7.0	6.0	5.4	4.3	.3	.4
131,2	Crude petroleum, natural gas, and natural gas liquids	1.7	-	1.5	-	.1	-	1.3	-	.7	-	.1	-
138	Oil and gas field services	11.3	-	9.8	-	.9	-	10.9	-	8.7	-	.4	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	4.9	5.0	2.3	2.3	2.4	2.5	2.8	3.0	1.3	1.3	.9	.9
142	Crushed and broken stone	5.7	-	1.8	-	3.7	-	2.5	-	1.3	-	.4	-
144	Sand and gravel	6.0	-	2.4	-	3.5	-	3.8	-	1.5	-	1.7	-
-	COMMUNICATION:												
481	Telephone communication	.9	-	.8	-	(1)	-	.7	-	.3	-	.1	-

¹ Less than 0.05.

^ppreliminary.

ESTABLISHMENT DATA SEASONALLY ADJUSTED LABOR TURNOVER

D-3. Labor turnover rates in manufacturing, 1970 to date, seasonally adjusted
(Per 100 employees)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
Total accessions												
1970.....	4.4	4.4	4.0	4.0	4.1	4.1	4.1	3.9	3.9	3.8	3.7	3.8
1971.....	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972.....	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.5	4.5	4.6	4.7	4.9
1973.....	5.0	5.2	5.1	4.9	4.8	4.7	4.6	4.6	4.8	4.8	5.0	4.7
1974.....	4.7	4.6	4.5	4.6	4.5	4.3	4.3	4.1	4.0	3.8	3.3	3.1
1975.....	3.0	3.1	3.2	3.7	3.6	3.8	4.1	4.0	3.9	3.8	3.8	3.8
1976.....	4.2	4.1	4.2	4.0	4.0	3.8	3.9	3.8	3.8	3.7	3.8	3.9
1977.....	4.0	4.4	4.1	3.9	4.0	4.0	4.0	3.9	3.9	4.0	4.1	4.3
1978.....	4.1	3.9	4.0	4.1	4.0	4.0	4.0	4.0	4.1	4.3	4.4	4.5
1979.....	4.3	4.2	4.0	3.9	4.0	4.0	3.9	3.7	3.8	4.1	3.9	4.0
1980.....	4.1	4.0	3.6	P3.0	-	-	-	-	-	-	-	-
New hires												
1970.....	3.3	3.2	2.9	2.8	2.7	2.8	2.8	2.7	2.6	2.5	2.4	2.4
1971.....	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.7	2.9
1972.....	3.0	3.1	3.2	3.2	3.3	3.2	3.2	3.3	3.4	3.6	3.7	4.0
1973.....	4.0	4.2	4.1	4.0	4.0	3.8	3.7	3.7	3.8	3.9	4.1	3.8
1974.....	3.8	3.7	3.6	3.5	3.5	3.3	3.3	3.1	3.0	2.7	2.3	1.9
1975.....	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.4	2.3	2.4	2.5
1976.....	2.6	2.7	2.9	2.8	2.7	2.7	2.7	2.6	2.5	2.4	2.5	2.6
1977.....	2.7	2.8	2.9	2.9	3.0	2.8	2.8	2.8	2.8	2.9	2.9	3.2
1978.....	3.0	2.9	3.0	3.1	3.0	3.0	3.0	3.0	3.1	3.3	3.4	3.5
1979.....	3.3	3.3	3.1	3.0	3.0	3.0	2.8	2.7	2.8	2.9	3.0	3.0
1980.....	2.9	2.9	2.5	P2.0	-	-	-	-	-	-	-	-
Total separations												
1970.....	5.0	5.2	4.9	5.2	5.0	4.8	4.5	4.8	4.8	5.0	4.7	4.4
1971.....	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972.....	4.2	4.1	4.2	4.2	4.2	4.5	4.5	4.2	4.3	4.1	4.3	4.4
1973.....	4.6	4.7	4.8	4.6	4.6	4.7	4.9	4.6	4.5	4.7	4.8	4.8
1974.....	5.1	5.0	4.9	4.7	4.6	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	3.9	3.8	3.8	3.5
1976.....	3.6	3.6	3.8	3.9	3.8	3.9	4.0	3.9	3.9	3.8	3.7	3.7
1977.....	3.9	4.1	3.7	3.7	3.8	3.7	4.0	3.9	3.9	3.8	3.8	3.9
1978.....	3.7	3.9	3.8	4.0	4.0	4.0	3.8	3.9	3.7	3.9	4.0	4.0
1979.....	4.1	4.0	3.9	3.9	4.0	4.1	4.0	4.3	3.9	3.9	4.1	4.0
1980.....	4.2	4.2	4.2	P5.2	-	-	-	-	-	-	-	-
Quits												
1970.....	2.4	2.5	2.3	2.3	2.1	2.2	2.1	2.0	2.0	1.9	1.8	1.9
1971.....	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972.....	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.5	2.6
1973.....	2.8	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.9	2.9	2.7
1974.....	2.7	2.8	2.7	2.6	2.6	2.5	2.5	2.4	2.2	2.0	1.8	1.7
1975.....	1.4	1.3	1.2	1.2	1.3	1.4	1.4	1.5	1.4	1.5	1.6	1.5
1976.....	1.6	1.7	1.8	1.8	1.7	1.7	1.8	1.7	1.7	1.6	1.6	1.7
1977.....	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.9	1.9	1.9	2.0
1978.....	1.9	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.2	2.2	2.2
1979.....	2.3	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	2.0	2.0	1.9
1980.....	2.0	2.1	1.9	P1.6	-	-	-	-	-	-	-	-
Layoffs												
1970.....	1.5	1.7	1.8	1.9	1.9	1.9	1.5	1.9	1.9	2.2	2.0	1.7
1971.....	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972.....	1.2	1.2	1.1	1.2	1.2	1.4	1.4	1.1	1.0	1.0	.9	.9
1973.....	.9	.8	.9	.8	.9	.9	1.2	1.0	.9	.8	1.0	1.1
1974.....	1.4	1.3	1.2	1.1	1.1	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	1.3	1.3	1.4	1.3	1.4	1.4	1.3	1.2
1977.....	1.3	1.5	1.1	1.1	1.1	1.1	1.3	1.2	1.1	1.1	1.0	1.0
1978.....	.9	1.0	1.0	1.0	1.0	1.0	.8	1.0	.8	.9	.9	.9
1979.....	.9	.9	.9	1.1	1.0	1.1	1.2	1.5	1.2	1.1	1.3	1.2
1980.....	1.3	1.3	1.5	P2.8	-	-	-	-	-	-	-	-

p=preliminary.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p
ALABAMA:												
Birmingham	2.3	2.3	1.2	1.1	0.9	0.9	2.2	2.4	0.7	0.7	0.7	0.9
Mobile	5.5	7.7	1.4	4.6	4.1	3.1	5.6	3.7	1.0	1.9	4.1	1.1
ALASKA	10.1	(*)	4.0	(*)	5.9	(*)	3.9	(*)	1.3	(*)	2.0	(*)
ARIZONA	4.2	4.2	3.5	3.7	.5	.4	3.7	3.7	2.0	2.1	.6	.5
Phoenix	4.2	4.3	3.6	3.8	.4	.4	3.7	3.8	2.1	2.3	.5	.5
ARKANSAS	4.1	4.7	2.9	3.5	.8	.8	4.3	5.0	2.5	2.9	.9	1.2
Fort Smith	3.5	3.9	1.9	2.5	1.0	.6	3.1	4.9	1.8	1.8	.4	1.9
Little Rock—North Little Rock	3.6	5.0	2.4	3.1	.7	1.6	3.6	4.3	1.9	2.2	.5	.9
Pine Bluff	3.0	3.0	2.2	2.2	.5	.5	2.7	3.1	1.9	1.7	.1	.5
CALIFORNIA	3.8	4.5	2.9	3.2	.8	1.1	4.1	4.1	1.7	1.9	1.4	1.2
COLORADO	3.9	5.0	3.2	4.5	.6	.3	3.2	4.0	2.1	2.7	.3	.4
Denver—Boulder	4.2	5.6	3.2	5.1	.9	.4	3.0	4.1	2.0	2.8	.3	.4
CONNECTICUT	2.5	2.7	1.9	2.1	.4	.3	2.4	2.3	1.2	1.2	.6	.5
Hartford	2.5	2.9	2.1	2.4	.2	.2	2.3	1.9	1.2	1.2	.5	.2
DELAWARE	2.6	2.6	1.4	1.6	.9	.5	1.7	2.3	.6	.9	.4	.6
Wilmington	1.8	1.6	.7	.7	.8	.5	1.4	2.3	.5	.5	.4	1.1
FLORIDA	4.8	4.8	4.1	4.1	.6	.6	4.5	5.3	2.8	3.1	.7	1.3
Fort Lauderdale—Hollywood	6.4	6.1	5.9	5.7	.3	.3	5.5	5.9	4.0	3.6	.3	.6
Jacksonville	4.7	3.4	2.7	2.2	2.0	1.1	4.4	4.9	1.6	2.5	1.6	1.5
Miami	4.6	4.4	4.2	4.1	.4	.3	4.5	4.6	2.9	2.6	1.0	1.2
Orlando	3.9	3.9	3.6	3.5	.2	.3	3.8	4.2	2.5	3.1	.5	.4
Pensacola	1.6	3.3	1.6	3.1	(1)	.1	1.8	2.6	1.0	1.5	.3	.8
Tampa—St. Petersburg	5.1	4.8	4.2	4.0	.8	.8	5.0	5.9	3.3	3.3	.8	1.6
West Palm Beach—Boca Raton	4.3	4.5	4.1	4.1	.2	.3	4.4	6.8	2.6	3.0	.8	2.1
GEORGIA	3.5	3.8	2.8	3.0	.4	.4	3.2	3.6	2.0	2.2	.4	.5
Atlanta ²	3.2	3.3	2.3	2.6	.6	.4	2.5	2.6	1.4	1.6	.5	.2
HAWAII ³	2.1	1.7	1.2	1.3	.7	.3	3.5	2.7	1.0	1.2	1.4	.5
IDAHO ⁴	4.3	3.4	2.7	1.8	1.5	1.4	5.7	7.1	1.5	1.4	2.9	4.7
ILLINOIS:												
Chicago SMSA	2.6	2.7	1.8	1.8	.5	.7	2.8	3.1	1.1	1.1	.7	1.0
Davenport—Rock Island—Moline	2.2	1.4	1.6	1.0	.1	.1	3.0	3.7	.9	.8	1.1	1.6
Decatur	1.6	3.2	.6	2.4	.5	.6	1.7	2.6	.3	.7	.9	.6
Peoria	2.3	2.0	.9	.2	1.3	1.6	1.5	2.5	.3	.6	.8	1.3
Rockford	2.7	2.6	1.6	1.8	.8	.6	2.9	2.7	1.2	1.1	1.0	.9
INDIANA ⁵	2.5	2.7	1.0	1.1	1.0	1.1	3.2	3.9	.7	.8	1.8	2.0
Indianapolis ⁶	2.3	2.5	1.1	1.2	.5	.9	2.7	3.5	.8	.8	1.1	2.0
IOWA	2.2	2.7	1.4	1.5	.6	1.0	3.1	3.9	1.0	1.0	1.5	2.2
Cedar Rapids	2.0	2.0	.8	1.1	.9	.7	2.7	2.2	.7	.7	1.7	1.1
Des Moines	2.2	2.3	1.3	1.0	.2	.4	5.1	4.3	.9	.9	2.5	1.5
KANSAS	3.7	3.9	3.1	3.1	.5	.5	3.9	4.7	2.2	2.4	.9	1.2
Topeka	2.4	3.1	2.1	2.7	.4	.4	4.0	3.2	1.2	1.4	2.2	1.2
Wichita	3.6	3.9	3.1	3.2	.3	.6	3.5	6.9	2.4	3.0	.1	2.2
KENTUCKY	3.1	4.4	1.7	1.4	.9	2.6	6.0	4.0	1.3	1.1	3.6	2.0
Lexington—Fayette	2.2	2.5	1.0	1.4	.5	.7	2.6	5.1	1.1	1.0	.8	3.1
Louisville	2.6	5.2	1.0	.7	.6	3.9	7.1	2.2	.6	.5	4.9	.7
LOUISIANA:												
New Orleans	4.1	4.4	3.5	3.9	.4	.4	4.0	4.6	2.4	2.3	.4	.8
MAINE	4.3	4.3	3.0	3.2	1.1	.9	4.3	4.7	1.9	2.4	1.6	1.5
Portland	3.9	3.3	2.6	2.9	1.0	.2	3.0	3.8	2.0	2.0	.4	.9
MARYLAND	2.5	2.8	1.5	1.7	.9	.9	2.8	2.9	.9	1.1	1.2	1.2
Baltimore	2.2	2.7	1.2	1.5	.7	1.1	2.8	2.7	.8	.8	1.3	1.2

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	
	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p
MASSACHUSETTS	3.5	(*)	2.5	(*)	0.7	(*)	3.1	(*)	1.6	(*)	0.6	(*)
Boston	2.9	(*)	2.1	(*)	.7	(*)	2.5	(*)	1.2	(*)	.5	(*)
MICHIGAN	2.6	2.9	.5	.5	1.4	1.6	2.9	3.5	.5	.6	1.8	2.3
Detroit	2.0	2.4	.4	.5	1.0	1.5	2.2	3.2	.4	.5	1.3	2.1
Flint	2.8	2.0	.1	.1	.5	1.1	4.5	6.5	.3	.2	3.4	5.4
Grand Rapids	2.0	3.2	1.1	.8	.6	2.0	3.2	3.2	.8	.8	1.7	1.7
Lansing—East Lansing	2.2	3.8	(¹)	.1	.4	.5	2.0	1.1	.2	.3	1.4	.4
MINNESOTA	2.9	3.1	2.2	2.5	.6	.5	3.1	3.5	1.6	1.7	.9	1.2
Minneapolis—St. Paul	2.7	2.8	2.2	2.4	.4	.3	2.8	3.0	1.6	1.7	.6	.8
MISSISSIPPI:												
Jackson	2.8	3.2	1.9	2.4	.8	.5	2.9	3.5	1.5	1.9	.7	.4
MISSOURI	2.8	3.0	1.7	2.0	.9	.8	2.9	3.0	1.2	1.3	1.1	1.1
Kansas City	2.7	2.6	2.0	2.0	.6	.6	2.8	2.9	1.3	1.3	.9	1.0
St. Louis	2.4	2.3	1.2	1.4	1.0	.8	2.7	2.3	.7	.8	1.3	.9
MONTANA .....	.6	1.6	.4	1.0	.1	.5	4.9	2.8	.6	.7	2.3	1.5
NEBRASKA	2.9	2.9	2.3	2.5	.5	.3	3.2	3.6	2.0	2.0	.6	.8
NEVADA	5.3	6.1	4.7	5.4	.6	.5	4.5	5.6	2.7	3.6	.6	.8
NEW HAMPSHIRE	4.2	4.5	3.3	3.8	.7	.5	4.7	4.5	2.7	2.9	1.2	.7
NEW JERSEY:												
Camden ?	3.1	2.9	1.7	1.8	1.1	.9	2.7	3.9	.8	.9	1.0	1.9
Hackensack	3.9	3.6	3.1	2.8	.8	.7	3.9	4.3	1.9	1.9	1.0	1.4
Jersey City	4.2	3.1	2.3	1.7	1.8	1.3	3.8	3.2	1.4	1.2	1.5	1.2
New Brunswick—Perth Amboy—Sayreville	2.8	2.5	1.9	1.9	.6	.5	2.8	2.7	1.3	1.1	.9	.8
Newark	2.8	3.6	2.2	2.4	.4	.8	3.1	3.0	1.2	1.2	1.1	.8
Paterson—Clifton—Passaic	4.6	4.2	2.6	2.8	1.7	1.2	3.5	3.8	1.3	1.4	1.4	1.5
Trenton	3.3	3.3	1.6	1.8	1.6	1.3	3.0	2.7	1.1	.9	1.1	1.1
NEW YORK	3.5	3.3	2.0	2.0	1.4	1.2	3.2	3.1	1.0	1.0	1.4	1.3
Albany—Schenectady—Troy	2.9	2.9	1.3	1.2	1.0	1.1	3.0	2.4	.7	.6	1.2	.7
Binghamton	2.0	2.0	1.4	1.5	.4	.4	1.9	2.6	1.0	.9	.3	1.0
Buffalo	2.8	2.8	1.1	.9	1.5	1.7	2.4	2.2	.5	.5	1.1	1.0
Elmira	2.4	2.2	1.4	1.1	.6	.8	3.8	3.1	1.1	.7	1.6	1.2
Monroe County ⁸	1.7	1.6	1.2	1.2	.3	.2	1.8	1.5	.5	.6	.4	.4
Nassau—Suffolk ⁹	4.2	3.9	3.2	3.2	.9	.6	3.9	3.8	2.0	1.9	1.0	.8
New York and Nassau—Suffolk	4.5	4.2	2.7	2.7	1.7	1.3	3.8	3.6	1.3	1.3	1.7	1.5
New York SMSA ⁹	4.6	4.3	2.6	2.6	1.9	1.6	3.8	3.6	1.1	1.2	1.9	1.7
New York City ¹⁰	5.0	4.7	2.8	2.7	2.2	1.8	4.0	3.8	1.1	1.2	2.1	1.8
Rochester	1.8	1.9	1.2	1.4	.4	.4	2.1	1.9	.6	.7	.7	.7
Syracuse	2.3	2.3	1.3	1.5	.8	.6	2.9	3.0	.8	.7	1.4	1.7
Utica—Rome	2.1	2.4	1.5	1.5	.5	.8	3.1	2.7	1.0	.9	1.6	1.2
Westchester County ¹⁰	1.9	2.2	1.5	1.8	.2	.2	2.2	2.5	1.0	1.1	.7	.7
NORTH CAROLINA	3.4	3.8	2.9	3.1	.3	.4	3.4	3.6	2.2	2.3	.5	.5
Charlotte—Gastonia	5.2	4.9	4.6	4.3	.3	.3	5.0	5.3	3.7	3.7	.3	.6
Greensboro—Winston-Salem—High Point	2.8	3.0	2.5	2.7	.2	.1	3.0	2.9	2.0	2.0	.4	.2
NORTH DAKOTA	5.0	4.7	2.4	2.9	2.3	1.2	4.8	8.7	2.3	3.6	1.7	3.2
Fargo—Moorhead	4.4	3.8	3.6	3.0	.4	.2	6.1	8.8	1.5	2.8	3.0	4.9
OHIO	2.1	2.5	.9	.9	(*)	(*)	2.5	2.8	.6	.6	1.2	1.5
Akron	1.4	1.4	.6	.7	(*)	(*)	1.9	1.7	.5	.5	.9	.7
Canton	2.2	3.0	.8	1.0	(*)	(*)	3.1	2.5	.6	.6	1.5	.9
Cincinnati	2.2	2.1	1.2	1.1	(*)	(*)	2.1	2.2	.7	.7	.7	.9
Cleveland	2.3	2.3	1.3	1.2	(*)	(*)	2.7	3.1	.7	.8	1.1	1.4
Columbus	2.5	2.5	1.5	1.8	(*)	(*)	2.4	2.5	.9	1.0	.8	.8
Dayton	1.7	2.2	1.0	1.2	(*)	(*)	2.1	1.9	.6	.6	.8	.5
Toledo	1.6	3.0	.7	.7	(*)	(*)	2.6	2.3	.4	.5	1.6	1.2
Youngstown—Warren	2.3	3.2	.4	.4	(*)	(*)	3.1	5.0	.3	.3	2.0	4.0
OKLAHOMA	5.2	5.1	4.5	4.4	.6	.4	4.9	5.1	3.4	3.7	.5	.5
Oklahoma City	4.7	4.9	3.9	4.1	.4	.5	4.7	4.7	3.1	3.4	.7	.5
Tulsa ¹¹	5.2	5.0	4.8	4.5	.3	.3	5.1	4.9	3.3	3.5	.3	.3

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p	Feb. 1980	Mar. 1980 ^p
OREGON ⁵	3.8	3.9	2.4	2.6	1.3	1.2	4.2	5.4	1.8	1.7	1.7	2.7
Eugene—Springfield ⁵	2.3	2.2	1.6	1.3	.5	.6	3.5	3.0	1.0	.7	1.8	1.3
Portland ⁵	4.3	(*)	3.0	(*)	1.2	(*)	3.7	(*)	1.9	(*)	1.0	(*)
PENNSYLVANIA	2.8	2.7	1.4	1.5	1.2	1.0	3.0	3.0	.9	.9	1.4	1.4
Allentown—Bethlehem—Easton	2.4	2.2	1.3	1.3	.9	.6	2.0	2.3	.8	.8	.7	.9
Alltoona	1.4	3.6	.7	2.1	.6	1.3	2.6	4.7	.5	.9	1.9	2.7
Erie	1.9	2.4	1.0	1.4	.5	.6	2.9	2.8	.6	.8	1.2	1.0
Harrisburg	2.4	2.7	1.4	1.9	.8	.6	3.1	2.9	1.1	1.3	1.2	.9
Johnstown	2.1	1.9	.5	.4	1.5	1.2	2.7	4.4	.4	.4	1.3	2.5
Lancaster	2.7	2.3	2.0	1.8	.5	.4	3.2	3.0	1.5	1.5	1.3	1.0
Northeast Pennsylvania	4.0	3.0	2.0	1.9	1.7	1.0	3.0	2.7	1.0	1.0	1.4	1.3
Philadelphia SMSA	2.7	2.8	1.6	1.8	.9	.8	2.9	3.1	.9	1.0	1.1	1.3
Pittsburgh	2.6	2.2	.7	.7	1.6	1.2	2.5	2.7	.4	.4	1.3	1.4
Reading	2.2	2.3	1.5	1.5	.6	.7	3.7	3.5	1.1	1.0	2.0	1.8
Scranton ¹²	3.6	3.2	1.7	2.0	1.7	1.1	2.7	3.0	.9	1.0	1.4	1.8
Wilkes-Barre—Hazleton ¹²	4.0	3.5	1.7	1.9	1.9	1.4	3.5	2.9	1.0	1.1	1.8	1.2
Williamsport	1.5	1.4	.7	.8	.7	.3	1.4	4.5	.5	.5	.5	3.6
York	3.4	2.8	2.3	1.9	1.0	.7	3.4	2.8	1.6	1.2	1.3	1.1
RHODE ISLAND	4.2	4.3	2.8	2.9	1.1	1.2	4.5	4.6	2.0	1.9	1.4	1.9
Providence—Warwick—Pawtucket	4.1	4.3	2.8	2.9	1.1	1.3	4.4	4.6	2.0	1.9	1.4	1.9
SOUTH CAROLINA	3.2	3.7	2.6	2.9	.3	.5	3.4	3.9	1.9	2.2	.5	.7
Charleston—North Charleston	2.7	3.5	2.2	3.0	.3	.5	3.2	4.8	1.3	1.9	.6	1.7
Columbia	4.8	5.0	3.4	3.4	1.2	1.4	3.3	3.8	2.2	2.6	.1	.2
Greenville—Spartanburg	3.7	3.9	3.3	3.5	.1	.2	3.7	4.0	2.4	2.7	.3	.1
SOUTH DAKOTA	2.6	2.0	1.9	1.2	.6	.6	3.7	3.2	1.8	1.7	1.3	.8
Sioux Falls	3.0	1.8	1.6	1.4	1.4	.4	3.0	3.8	1.5	1.8	1.3	1.4
TENNESSEE:												
Memphis	2.5	3.2	1.5	1.9	.8	1.0	3.7	3.3	1.2	1.2	1.7	1.4
TEXAS:												
Dallas—Fort Worth	5.0	5.1	4.5	4.5	.3	.4	4.5	4.8	3.2	3.4	.3	.4
Houston	4.0	4.3	3.6	4.1	.2	.1	3.7	4.1	2.4	2.7	.2	.3
San Antonio	4.4	4.8	4.2	4.4	.2	.2	4.4	4.7	2.9	3.2	.4	.5
UTAH ⁴	4.5	4.4	4.0	3.7	.3	.6	4.5	4.4	2.8	2.6	.5	.7
Salt Lake City—Ogden ⁴	4.7	4.4	4.3	3.9	.3	.4	4.6	4.5	2.9	2.8	.6	.4
VERMONT	2.9	3.3	2.3	2.7	.4	.4	2.7	2.4	1.3	1.3	.8	.5
Burlington	2.0	2.8	1.8	2.4	.1	.2	1.4	1.3	.6	.5	.5	.4
Springfield	2.7	3.2	1.9	2.9	.7	.3	2.2	2.1	.8	.9	.9	.6
VIRGINIA	2.6	2.8	1.8	2.0	.6	.5	2.6	2.8	1.2	1.3	.6	.7
Richmond	1.8	2.5	1.4	1.7	.1	.2	1.7	2.4	.7	.7	.2	.2
WASHINGTON:												
Seattle—Everett ¹³	3.1	3.1	2.4	2.4	.6	.6	3.3	3.4	1.2	1.4	1.2	1.3
WISCONSIN	2.4	2.6	1.3	1.3	.8	1.0	2.8	3.3	.8	.8	1.2	1.6
Milwaukee	2.2	2.5	1.2	1.3	.5	.8	2.7	3.0	.7	.7	.9	1.2
WYOMING	3.0	6.7	2.2	5.4	.8	1.3	6.7	7.1	2.6	4.0	2.8	1.7

¹ Less than 0.05.

² Excludes agricultural chemicals, and miscellaneous manufacturing.

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

⁴ Excludes canning and preserving, and sugar.

⁵ Excludes canning and preserving.

⁶ Excludes canning and preserving, and newspapers.

⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

⁸ Subarea of Rochester Standard Metropolitan Statistical Area.

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

¹⁰ Subarea of New York Standard Metropolitan Statistical Area.

¹¹ Excludes new-hire rate for transportation equipment.

¹² Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

¹³ Excludes canning and preserving, printing and publishing.

^p preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
ALABAMA	1,602.1	1,618.1	1,617.7	105.1	128.8	121.3	6.6	8.0	7.5
Birmingham	370.6	377.3	378.5	21.4	26.6	26.3	5.8	7.0	7.0
Huntsville	133.5	136.9	135.5	8.4	12.5	10.7	6.3	9.1	7.9
Mobile	177.1	176.3	177.3	12.4	12.5	12.0	7.0	7.1	6.8
Montgomery	116.2	118.6	117.7	6.3	7.3	6.9	5.4	6.1	5.8
Tuscaloosa	52.3	52.3	51.8	3.1	4.1	3.6	5.9	7.9	7.0
ALASKA	177.0	181.5	185.6	17.5	19.6	20.3	9.9	10.8	10.9
ARIZONA	1,045.9	1,097.2	1,103.2	48.1	62.2	64.5	4.6	5.7	5.8
Phoenix	639.4	670.8	674.4	26.0	33.7	35.2	4.1	5.0	5.2
Tucson	187.5	199.1	199.4	7.4	9.8	10.0	3.9	4.9	5.0
ARKANSAS	948.7	945.1	955.9	57.5	56.6	59.0	6.1	6.0	6.2
Fayetteville-Springdale	74.1	75.8	77.1	3.2	3.2	3.4	4.4	4.2	4.5
Fort Smith ¹	83.4	80.5	80.5	6.0	5.5	6.8	7.3	6.9	8.4
Little Rock-North Little Rock	182.1	182.5	184.7	7.5	7.0	7.5	4.1	3.8	4.1
Pine Bluff	38.4	38.1	38.5	2.4	1.9	1.8	6.2	4.9	4.7
CALIFORNIA ²	10,717.6	11,085.2	11,080.1	659.1	700.2	773.4	6.2	6.3	7.0
Anaheim-Santa Ana-Garden Grove	1,041.3	1,085.2	1,080.9	39.1	42.7	45.2	3.8	3.9	4.2
Bakersfield	171.1	173.1	176.1	15.7	15.2	17.1	9.1	8.8	9.7
Fresno	249.1	254.1	259.1	21.9	23.9	25.9	8.8	9.4	10.0
Los Angeles-Long Beach ²	3,431.0	3,595.0	3,597.0	196.0	197.0	225.0	5.7	5.5	6.2
Modesto	126.5	128.4	131.0	17.1	17.3	19.9	13.6	13.5	15.2
Oxnard-Simi Valley-Ventura	220.2	226.5	225.2	14.3	17.9	15.5	6.5	7.9	6.9
Riverside-San Bernardino-Ontario	558.2	587.5	582.0	31.2	38.5	41.3	5.6	6.6	7.1
Sacramento	448.6	467.5	469.8	31.8	35.9	40.1	7.1	7.7	8.5
Salinas-Seaside-Monterey	127.3	125.9	128.1	10.8	13.2	13.5	8.5	10.5	10.6
San Diego	711.4	741.2	735.0	41.2	46.8	49.2	5.8	6.3	6.7
San Francisco-Oakland	1,570.3	1,588.6	1,576.9	80.7	76.9	84.8	5.1	4.9	5.4
San Jose	682.9	720.3	717.7	32.3	33.9	38.9	4.7	4.7	5.4
Santa Barbara-Santa Maria-Lompoc	142.2	146.2	143.1	7.4	8.0	8.1	5.2	5.5	5.7
Santa Rosa	123.4	128.4	126.3	8.2	9.1	9.5	6.7	7.1	7.5
Stockton	154.5	154.5	159.0	16.2	18.8	19.7	10.5	12.1	12.4
Vallejo-Fairfield-Napa	119.3	123.5	123.1	7.3	8.7	9.5	6.1	7.1	7.7
COLORADO	1,355.5	1,422.0	1,427.1	65.8	64.4	72.7	4.9	4.5	5.1
Denver-Boulder	806.8	848.6	850.3	36.5	34.5	39.2	4.5	4.1	4.6
CONNECTICUT	1,568.8	1,582.6	1,596.3	81.3	81.4	77.7	5.2	5.1	4.9
Bridgeport	191.2	191.8	194.2	10.6	10.0	9.5	5.5	5.2	4.9
Hartford	378.6	384.0	385.3	17.7	17.4	15.6	4.7	4.5	4.1
New Britain	72.5	74.1	74.5	4.0	3.8	3.5	5.5	5.2	4.7
New Haven-West Haven	200.4	204.7	206.8	10.2	11.6	11.2	5.1	5.7	5.4
Stamford	119.1	120.8	122.8	4.8	4.2	4.6	4.0	3.5	3.7
Waterbury	109.7	108.0	109.1	6.9	6.5	6.6	6.3	6.1	6.0
DELAWARE	271.4	280.6	278.9	21.3	20.2	20.8	7.8	7.2	7.5
Wilmington ¹	242.5	N.A.	N.A.	17.0	N.A.	N.A.	7.0	N.A.	N.A.
DISTRICT OF COLUMBIA	316.1	314.7	313.4	23.0	20.7	18.7	7.3	6.6	6.0
Washington SMSA ¹	1,588.8	N.A.	N.A.	66.6	N.A.	N.A.	4.2	N.A.	N.A.
FLORIDA ²	3,855.2	3,880.8	3,904.1	203.4	188.7	188.5	5.3	4.9	4.8
Fort Lauderdale-Hollywood	411.0	413.4	411.5	21.0	17.6	17.0	5.1	4.3	4.1
Jacksonville	299.9	294.6	297.2	15.7	14.6	13.8	5.2	5.0	4.6
Miami	709.7	720.9	726.4	39.1	35.3	35.3	5.5	4.9	4.9
Orlando	309.7	313.5	315.8	15.2	14.4	14.0	4.9	4.6	4.4
Pensacola	108.4	107.1	108.7	5.6	5.3	5.2	5.2	5.0	4.8
Tampa-St. Petersburg	591.7	591.9	596.6	29.0	27.6	27.7	4.9	4.7	4.7
West Palm Beach-Boca Raton	223.8	230.1	230.9	12.1	10.0	10.2	5.4	4.3	4.4
GEORGIA	2,309.8	2,369.0	2,373.3	111.5	131.9	136.4	4.8	5.6	5.7
Albany	47.7	50.5	50.5	2.5	3.2	3.2	5.2	6.3	6.4
Atlanta	928.6	947.5	952.8	40.6	46.7	48.9	4.4	4.9	5.1
Augusta	119.8	120.3	120.2	6.5	6.9	6.9	5.4	5.8	5.7
Columbus ¹	84.0	85.1	85.4	5.4	6.0	5.7	6.4	7.0	6.7
Macon	96.0	97.2	96.6	5.2	5.3	5.1	5.4	5.4	5.2
Savannah	86.7	85.9	86.2	4.6	5.0	5.3	5.3	5.8	6.1

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		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
HAWAII	395.1	406.7	402.6	25.0	18.5	16.9	6.3	4.5	4.2
Honolulu	310.5	319.8	317.2	18.6	14.0	12.8	6.0	4.4	4.0
IDAHO	412.1	419.3	424.0	25.5	31.7	35.2	6.2	7.6	8.3
Boise City	88.0	89.5	88.9	3.7	5.1	5.5	4.2	5.7	6.2
ILLINOIS²	5,205.4	5,377.3	5,384.7	272.0	391.0	376.5	5.2	7.3	7.0
Bloomington—Normal	57.6	59.9	57.5	2.2	3.5	3.0	3.9	5.8	5.2
Champaign—Urbana—Rantoul	77.6	81.1	82.3	3.1	4.4	4.1	4.0	5.4	4.9
Chicago	3,250.8	3,361.7	3,370.1	163.5	222.6	220.7	5.0	6.6	6.5
Davenport—Rock Island—Moline ¹	176.4	183.2	183.6	7.4	12.2	11.8	4.2	6.6	6.4
Decatur	55.4	59.9	59.8	3.5	6.2	5.9	6.4	10.4	9.9
Peoria	167.9	174.2	173.6	8.2	12.8	11.8	4.9	7.3	6.8
Rockford	130.2	137.3	135.2	6.5	10.7	9.5	5.0	7.8	7.1
Springfield	90.9	96.3	95.5	4.8	7.3	6.4	5.3	7.5	6.8
INDIANA	2,579.4	2,622.8	2,623.4	157.4	238.9	238.9	6.1	9.1	9.1
Anderson	59.6	60.6	59.5	4.2	10.0	9.8	7.0	16.4	16.4
Evansville ¹	142.9	142.2	142.6	7.4	9.4	9.6	5.1	6.6	6.8
Fort Wayne	191.8	196.1	195.7	8.2	18.2	18.3	4.3	9.3	9.4
Gary—Hammond—East Chicago	291.6	300.8	301.0	15.3	27.5	28.7	5.2	9.2	9.5
Indianapolis	580.3	600.0	602.4	31.2	42.2	42.4	5.4	7.0	7.0
Lafayette—West Lafayette	62.1	62.2	62.4	2.9	4.1	3.9	4.6	6.7	6.3
Muncie	56.2	56.4	57.8	4.1	5.8	5.6	7.3	10.3	9.7
South Bend	141.4	144.6	143.9	8.4	12.6	13.0	5.9	8.7	9.0
Terre Haute	82.4	83.2	82.2	5.0	7.2	6.1	6.1	8.7	7.4
IOWA	1,430.6	1,443.0	1,473.2	62.9	82.4	81.0	4.4	5.7	5.5
Cedar Rapids	87.1	91.4	91.8	3.4	5.0	5.1	3.9	5.4	5.5
Des Moines	183.0	187.0	187.1	7.8	9.2	9.6	4.3	4.9	5.1
Dubuque	45.8	46.9	46.9	2.8	3.5	3.0	6.2	7.4	6.4
Sioux City ¹	55.7	56.8	56.0	4.2	3.6	3.6	7.5	6.5	6.5
Waterloo—Cedar Falls	69.0	72.6	73.0	3.7	3.9	3.9	5.4	5.4	5.3
KANSAS	1,182.8	1,205.1	1,211.5	35.7	44.9	51.9	3.0	3.7	4.3
Topeka	97.7	97.7	98.4	3.7	4.7	4.5	3.8	4.8	4.6
Wichita	225.5	233.1	234.0	6.9	8.1	10.1	3.1	3.5	4.3
KENTUCKY	1,543.1	1,582.9	1,580.3	78.6	103.1	97.8	5.1	6.5	6.2
Lexington—Fayette	164.8	169.6	170.0	5.2	6.2	5.9	3.2	3.6	3.5
Louisville ¹	412.3	421.9	421.4	19.1	24.3	26.0	4.6	5.8	6.2
Owensboro	37.6	39.4	39.7	2.1	2.5	2.5	5.7	6.4	6.3
LOUISIANA	1,661.5	1,725.8	1,717.6	108.6	126.4	119.1	6.5	7.3	6.9
Alexandria	66.9	69.2	68.5	5.4	7.0	6.4	8.0	10.1	9.3
Baton Rouge	204.5	209.1	207.5	13.1	13.6	12.8	6.4	6.5	6.2
Lafayette	71.7	76.8	76.4	3.2	3.5	3.3	4.5	4.6	4.3
Lake Charles	69.6	74.0	71.6	4.6	7.2	5.1	6.6	9.7	7.1
Monroe	53.1	54.0	53.2	4.0	4.9	4.6	7.4	9.0	8.7
New Orleans	470.6	485.5	480.6	27.1	29.6	28.3	5.8	6.1	5.9
Shreveport	150.1	155.7	154.7	9.1	11.1	11.2	6.0	7.1	7.3
MAINE	477.8	487.2	494.7	35.5	39.0	40.5	7.4	8.0	8.2
Lewiston—Auburn	37.6	38.9	39.5	2.6	2.9	2.8	7.0	7.5	7.2
Portland	85.8	90.8	90.8	4.6	5.0	5.0	5.4	5.5	5.5
MARYLAND	2,078.5	2,086.9	2,102.9	112.2	134.9	126.2	5.4	6.5	6.0
Baltimore	1,045.7	1,036.2	1,049.4	62.3	74.6	71.0	6.0	7.2	6.8
MASSACHUSETTS²	2,879.7	2,840.1	2,832.6	152.1	149.9	141.5	5.3	5.3	5.0
Boston	1,403.7	N.A.	N.A.	69.9	N.A.	N.A.	5.0	N.A.	N.A.
Brockton	80.6	N.A.	N.A.	4.7	N.A.	N.A.	5.8	N.A.	N.A.
Fall River ¹	77.6	N.A.	N.A.	5.2	N.A.	N.A.	6.6	N.A.	N.A.
Lawrence—Haverhill ¹	138.6	N.A.	N.A.	7.8	N.A.	N.A.	5.6	N.A.	N.A.
Lowell	117.2	N.A.	N.A.	6.0	N.A.	N.A.	5.1	N.A.	N.A.
New Bedford	81.3	N.A.	N.A.	6.1	N.A.	N.A.	7.5	N.A.	N.A.
Springfield—Chicopee—Holyoke	275.8	N.A.	N.A.	12.8	N.A.	N.A.	4.6	N.A.	N.A.
Worcester	198.4	N.A.	N.A.	9.2	N.A.	N.A.	4.7	N.A.	N.A.
MICHIGAN²	4,243.8	4,238.6	4,233.3	364.8	465.8	523.4	8.6	11.0	12.4
Ann Arbor	141.5	141.7	142.1	8.1	9.9	11.6	5.7	7.0	8.2

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment						
				Number			Percent of labor force			
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	
MICHIGAN—Continued										
Battle Creek	79.0	78.5	79.4	5.7	7.6	9.1	7.2	9.7	11.5	
Bay City	49.9	51.5	52.5	4.1	6.7	8.0	8.2	13.0	15.2	
Detroit	2,016.9	2,016.9	1,983.5	176.7	237.1	255.1	8.8	11.8	12.9	
Flint	220.9	221.1	223.5	18.8	32.3	39.0	8.5	14.6	17.5	
Grand Rapids	303.2	304.7	309.7	17.6	21.1	25.2	5.8	6.9	8.1	
Jackson	67.6	65.2	65.1	5.6	5.7	6.7	8.3	8.8	10.3	
Kalamazoo—Portage	130.8	133.5	134.3	8.3	9.3	10.9	6.4	6.9	8.1	
Lansing—East Lansing	229.9	233.8	235.9	15.0	18.8	23.4	6.5	8.0	9.9	
Muskegon—Norton Shores—Muskegon Heights	75.4	75.2	76.4	7.6	8.2	9.5	10.1	10.9	12.4	
Saginaw	101.4	101.1	100.7	7.2	11.9	14.6	7.1	11.8	14.5	
MINNESOTA	2,033.5	2,101.0	N.A.	92.6	128.2	N.A.	4.6	6.1	N.A.	
Duluth—Superior ¹	115.3	118.9	N.A.	7.7	10.5	N.A.	6.7	8.8	N.A.	
Minneapolis—St. Paul	1,081.3	1,125.9	N.A.	37.4	47.0	N.A.	3.5	4.2	N.A.	
MISSISSIPPI	970.1	1,004.7	1,009.1	51.3	64.4	65.0	5.3	6.4	6.4	
Jackson	142.2	149.3	151.1	4.7	5.8	6.4	3.3	3.9	4.2	
MISSOURI	2,270.7	2,289.0	2,313.7	94.3	146.5	139.7	4.2	6.4	6.0	
Kansas City ¹	689.2	683.5	688.2	25.4	34.5	40.1	3.7	5.1	5.8	
St. Joseph	44.5	44.0	44.5	2.2	3.0	2.9	5.0	6.8	6.5	
St. Louis ¹	1,080.0	1,083.5	1,084.3	51.6	81.1	77.4	4.8	7.5	7.1	
Springfield	102.9	103.0	103.8	3.5	4.9	4.9	3.4	4.8	4.7	
MONTANA	363.5	364.3	371.7	20.2	23.8	24.4	5.6	6.5	6.6	
Billings	54.2	56.6	55.7	2.0	3.0	2.6	3.8	5.3	4.6	
Great Falls	33.9	33.0	33.0	2.1	2.2	2.2	6.3	6.8	6.6	
NEBRASKA	764.1	773.0	788.3	21.0	26.7	26.5	2.7	3.5	3.4	
Lincoln	108.7	113.9	113.5	7.6	3.4	3.3	2.4	3.0	2.9	
Omaha ¹	274.6	281.4	282.9	10.9	13.5	13.8	4.0	4.8	4.9	
NEVADA	348.9	369.5	371.2	17.1	18.9	19.1	4.9	5.1	5.1	
Las Vegas	190.9	203.7	204.0	10.3	11.3	11.7	5.4	5.5	5.7	
Reno	102.0	108.1	108.5	3.7	4.5	4.2	3.6	4.1	3.9	
NEW HAMPSHIRE	431.3	450.9	449.9	12.3	15.6	18.1	2.9	3.5	4.0	
Manchester	78.4	79.4	81.3	2.2	3.2	3.3	2.8	4.0	4.1	
Nashua	70.1	73.9	75.9	1.8	2.3	2.6	2.6	3.2	3.5	
NEW JERSEY	3,419.4	3,533.2	3,493.0	193.6	246.8	217.9	5.7	7.0	6.2	
Atlantic City	84.3	97.1	97.8	6.8	9.9	8.2	8.1	10.2	8.4	
Jersey City	240.6	245.2	241.5	20.8	23.5	22.0	8.7	9.6	9.1	
Long Branch—Asbury Park	216.3	221.6	220.1	12.9	17.1	14.5	6.0	7.7	6.6	
Newark	930.8	961.4	949.8	48.8	64.7	57.9	5.2	6.7	6.1	
New Brunswick—Perth Amboy—Sayreville	315.4	330.9	324.5	14.4	19.1	16.1	4.6	5.8	5.0	
Paterson—Clifton—Passaic	213.4	219.1	215.4	15.9	18.7	17.3	7.5	8.5	8.0	
Trenton	157.3	164.7	162.4	7.3	9.8	8.6	4.6	5.9	5.3	
Vineland—Millville—Bridgeton	58.5	62.2	60.7	4.6	6.7	5.6	7.9	10.8	9.3	
NEW MEXICO	524.5	542.4	546.5	32.3	38.2	38.0	6.2	7.0	7.0	
Albuquerque	198.1	206.8	207.4	11.7	14.4	14.3	5.9	6.9	6.9	
NEW YORK²	7,933.1	7,931.1	7,798.9	532.5	577.3	536.8	6.7	7.3	6.9	
Albany—Schenectady—Troy	374.0	381.1	373.8	19.3	20.4	20.2	5.2	5.4	5.4	
Binghamton ¹	137.9	139.5	137.0	6.7	8.1	8.1	4.9	5.8	5.9	
Buffalo	567.7	584.8	569.9	37.9	50.2	52.5	6.7	8.6	9.2	
Elmira	39.3	40.1	39.6	2.2	3.0	3.1	5.5	7.5	7.8	
Nesau—Suffolk	1,278.6	1,286.0	1,264.5	74.3	70.4	70.2	5.8	5.5	5.5	
New York	3,654.5	3,588.3	3,530.4	277.0	288.9	245.3	7.6	8.1	6.9	
New York City ²	3,057.0	2,976.0	2,929.0	251.0	263.0	219.0	8.2	8.8	7.5	
Poughkeepsie	105.0	108.9	107.7	4.3	5.3	5.3	4.1	4.8	5.0	
Rochester	460.1	469.0	460.6	21.4	27.3	26.7	4.7	5.8	5.8	
Syracuse	301.9	305.6	302.0	16.4	21.3	22.4	5.4	7.0	7.4	
Utica—Rome	135.1	137.5	134.7	8.3	9.3	9.0	6.1	6.8	6.7	
NORTH CAROLINA	2,640.5	2,716.1	2,730.2	118.4	151.9	149.3	4.5	5.6	5.5	
Asheville	81.0	82.3	82.9	3.6	4.0	4.0	4.5	4.8	4.8	
Charlotte—Gastonia	332.7	341.7	342.4	11.2	13.1	14.2	3.4	3.8	4.1	

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		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
NORTH CAROLINA—Continued									
Greensboro—Winston-Salem—High Point	415.3	422.2	427.4	17.1	18.4	21.3	4.1	4.4	5.0
Raleigh—Durham	279.8	296.1	297.1	7.4	11.6	11.0	2.6	3.9	3.7
NORTH DAKOTA									
Fargo—Moorehead ¹	288.9	303.4	312.5	12.5	14.3	14.3	4.3	4.7	4.6
	69.2	72.4	N.A.	2.8	3.9	N.A.	4.0	5.4	N.A.
OHIO²									
Akron	4,944.4	4,926.0	4,957.3	274.3	324.1	362.8	5.5	6.6	7.3
Canton	298.7	298.0	297.9	17.9	20.9	21.6	6.0	7.0	7.3
Cincinnati ¹	179.7	182.2	182.4	9.3	12.2	13.3	5.2	6.7	7.3
Cleveland	644.6	651.2	656.7	30.2	34.9	42.3	4.7	5.7	6.4
Columbus	914.8	910.7	914.6	44.3	50.7	56.9	4.8	5.6	6.2
Dayton	529.4	529.4	530.4	25.3	23.9	25.8	4.8	4.5	4.9
Youngstown—Warren	385.5	381.5	381.7	23.8	24.0	26.1	6.2	6.3	6.8
	361.7	362.9	366.4	24.7	31.8	38.7	6.8	8.8	10.6
	231.7	231.6	234.1	14.7	20.7	23.6	6.4	8.9	10.1
OKLAHOMA									
Oklahoma City	1,255.2	1,312.7	1,317.9	43.5	43.3	48.3	3.5	3.3	3.7
Tulsa	377.3	409.3	411.4	11.8	12.1	14.3	3.1	3.0	3.5
	301.3	312.3	311.7	10.2	10.2	10.8	3.4	3.3	3.5
OREGON									
Eugene—Springfield	1,198.7	1,235.2	1,237.2	84.7	91.5	99.1	7.1	7.4	8.0
Portland ¹	126.2	128.1	129.1	10.8	11.5	13.1	8.6	8.9	10.1
Salem	580.5	615.0	618.1	31.2	32.2	33.7	5.4	5.2	5.5
	109.9	117.7	118.4	7.6	8.5	9.1	6.9	7.2	7.7
PENNSYLVANIA²									
Allentown—Bethlehem—Easton ¹	5,179.0	5,356.9	5,321.0	319.5	415.5	387.8	6.2	7.8	7.3
Altoona	290.2	299.8	297.5	15.8	19.1	17.3	5.4	6.4	5.8
Erie	56.5	60.4	59.4	4.6	6.0	5.1	8.1	9.9	8.5
Harrisburg	122.8	127.4	126.7	8.3	11.3	10.6	6.7	8.8	8.4
Johnstown	212.7	218.4	217.6	9.1	12.6	11.9	4.3	5.8	5.5
Lancaster	206.1	111.7	109.9	8.0	13.5	11.9	7.5	12.0	10.8
Northeast Pennsylvania	172.8	176.8	176.4	6.9	8.8	8.6	4.0	5.0	4.9
Philadelphia ¹	276.3	287.3	284.3	21.0	28.5	26.3	7.6	9.9	9.2
Pittsburgh	2,075.7	2,139.7	2,127.3	130.7	144.8	134.4	6.3	6.8	6.3
Reading	982.5	1,012.8	1,004.3	52.6	70.4	64.2	5.4	7.0	6.4
Williamsport	146.6	155.3	153.4	7.0	12.5	11.1	4.8	8.0	7.3
York	51.5	53.5	52.7	4.0	6.8	8.0	7.8	12.6	15.2
	167.4	173.4	171.7	6.6	11.2	10.5	4.0	6.5	6.1
RHODE ISLAND									
Providence—Warwick—Pawtucket ¹	445.0	462.6	461.7	29.7	35.0	33.3	6.7	7.6	7.2
	446.8	N.A.	N.A.	29.5	N.A.	N.A.	6.6	N.A.	N.A.
SOUTH CAROLINA									
Charleston—North Charleston	1,292.3	1,271.1	1,266.5	60.8	80.1	75.3	4.7	6.3	5.9
Columbia	151.4	152.1	150.0	7.3	9.5	9.3	4.8	6.3	6.2
Greenville—Spartanburg	171.7	171.2	168.4	5.8	7.4	6.6	3.4	4.3	3.9
	257.4	247.5	251.2	9.7	12.8	11.7	3.8	5.2	4.7
SOUTH DAKOTA									
Sioux Falls	336.0	329.2	348.6	13.2	13.1	12.6	3.9	4.0	3.6
	62.6	61.2	63.1	2.3	2.3	2.3	3.7	3.8	3.6
TENNESSEE									
Chattanooga ¹	1,948.1	1,975.7	1,979.4	102.0	127.9	125.9	5.2	6.5	6.4
Knoxville	192.5	195.1	194.7	11.0	13.3	12.9	5.7	6.8	6.6
Memphis ¹	202.5	203.2	203.6	7.9	10.0	9.9	3.9	4.9	4.9
Nashville—Davidson	379.0	381.6	381.1	18.1	20.8	20.7	4.8	5.4	5.4
	403.7	409.1	410.4	15.7	19.9	20.4	3.9	4.9	5.0
TEXAS²									
Amarillo	6,151.7	6,310.4	6,286.9	241.3	350.5	298.8	3.9	5.6	4.8
Austin	87.1	87.7	87.6	2.7	3.8	3.3	3.1	4.3	3.8
Beaumont—Port Arthur—Orange	244.6	250.3	250.2	6.1	8.8	8.4	2.5	3.5	3.3
Corpus Christi	163.1	161.1	159.3	9.9	13.2	11.0	6.0	8.2	6.9
Dallas—Fort Worth	139.8	142.2	141.4	5.8	9.0	7.6	4.2	6.3	5.4
El Paso	1,443.3	1,504.3	1,504.6	46.8	66.4	57.8	3.2	4.4	3.8
Galveston—Texas City	166.1	172.4	170.2	12.7	17.3	14.5	7.7	10.0	8.5
Houston	79.7	82.2	81.7	4.0	5.8	4.9	5.0	7.1	6.0
Lubbock	1,399.8	1,444.4	1,436.7	42.2	64.6	55.7	3.0	4.5	3.9
San Antonio	99.6	100.5	101.1	3.2	4.0	3.9	3.2	4.0	3.8
Waco	404.3	414.6	411.5	21.0	29.4	24.1	5.2	7.1	5.9
Wichita Falls	77.2	80.2	79.3	2.9	4.6	3.8	3.8	5.7	4.8
	58.8	59.6	59.4	1.9	2.5	2.2	3.2	4.2	3.7

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P	APR. 1979	MAR. 1980	APR. 1980P
UTAH	572.0	594.4	599.7	24.3	31.8	30.3	4.2	5.4	5.1
Salt Lake City—Ogden	378.4	393.0	395.4	15.9	19.5	19.2	4.2	5.0	4.9
VERMONT	235.4	239.1	234.1	13.3	13.6	13.2	5.7	5.7	5.7
VIRGINIA	2,445.3	2,486.5	2,495.3	107.3	109.6	111.2	4.4	4.4	4.5
Lynchburg	74.2	76.7	77.5	2.4	3.1	3.2	3.3	4.0	4.2
Newport News—Hampton	158.3	161.4	163.7	7.8	7.6	7.5	4.9	4.7	4.6
Norfolk—Virginia Beach—Portsmouth ¹	319.5	324.7	324.7	16.1	16.0	17.6	5.0	4.9	5.4
Petersburg—Colonial Heights—Hopewell	58.2	59.0	60.1	2.8	2.9	2.9	4.9	4.8	4.8
Richmond	317.8	329.1	329.4	9.2	10.2	10.3	2.9	3.1	3.1
Roanoke	107.9	110.5	110.3	3.5	4.4	4.2	3.2	3.9	3.8
WASHINGTON	1,860.5	1,911.7	1,927.1	126.2	145.0	152.6	6.8	7.6	7.9
Seattle—Everett	811.0	841.5	846.3	45.5	47.5	51.7	5.6	5.6	6.1
Spokane	148.0	148.8	149.7	9.0	11.6	11.4	6.1	7.8	7.6
Tacoma	173.5	173.1	173.4	12.4	13.6	14.9	7.2	7.9	8.6
WEST VIRGINIA	740.3	754.8	760.1	48.7	75.7	71.8	6.6	10.0	9.4
Charleston	124.1	126.9	126.8	4.6	9.8	9.0	3.7	7.7	7.1
Huntington—Ashland ¹	123.7	127.1	126.6	5.8	10.5	9.6	4.7	8.3	7.6
Parkersburg—Marietta ¹	69.5	70.6	70.4	3.5	5.8	5.8	5.1	8.2	8.2
Wheeling ¹	81.0	80.5	80.9	4.3	7.2	7.4	5.3	9.0	9.1
WISCONSIN	2,346.3	2,409.7	2,412.9	113.6	152.0	153.4	4.8	6.3	6.4
Appleton—Oshkosh	147.0	153.9	154.3	6.3	8.9	9.0	4.3	5.8	5.8
Eau Claire	58.4	60.7	59.3	3.2	5.9	4.2	5.5	9.7	7.1
Green Bay	87.1	89.5	89.4	5.5	6.0	5.7	6.4	6.7	6.4
Kenosha	60.8	63.0	63.4	3.1	3.5	3.4	5.0	5.5	5.3
La Crosse	45.5	47.1	47.3	2.5	2.6	2.4	5.4	5.6	5.0
Madison	177.0	185.6	185.2	7.0	8.2	8.1	3.9	4.4	4.4
Milwaukee	716.4	737.7	735.1	30.2	35.7	37.4	4.2	4.8	5.1
Racine	87.5	89.0	88.3	4.1	5.0	5.3	4.7	5.6	6.0
WYOMING	213.4	226.5	229.4	5.6	8.7	8.3	2.6	3.9	3.6

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.)

visional and will be revised when new benchmark information becomes available. Data refer to place of residence.
p=preliminary.
N.A.=not available.

NOTE: Estimates for 1979 have been benchmarked to 1979 Current Population Survey annual averages. Except in the 10 States and 2 areas designated by footnote 2, estimates for 1980 are pro-

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

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

Explanatory Notes

Introduction

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

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

Data based on establishment records are obtained 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 employer characteristics such as detailed industrial classifications can be reliably derived only from establishment reports.

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

Employment

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

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

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

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

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

Hours of work

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

COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

Unemployment insurance data. The unemployed total from the household survey includes all persons who did not have a job at all during the survey week and were looking for work or were waiting to be called back to a job from which they had been laid off, regardless of whether or not they were eligible for unemployment insurance. Figures on unemployment insurance claims, prepared by the Employment and Training Administration of the Department of Labor, exclude persons who have exhausted their benefit rights, new workers

who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (some workers in agriculture, domestic services and religious organizations, self-employed and unpaid family workers). Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

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

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

Agricultural employment estimates of the Department of Agriculture.

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

COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

Employment covered by State unemployment insurance programs.

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

Household data (A tables)

COLLECTION AND COVERAGE

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

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

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

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

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

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

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

CONCEPTS

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

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

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

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

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

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

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

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

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

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

labor force; the sum of the rates for the four groups thus equals the total unemployment rate.

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

Employment-population ratios represent the proportion of the 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 relate 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-hour worked category, "with a job but not at work." Included in this latter group are persons who were on vacation, ill, involved in a labor dispute, or otherwise absent from their jobs for voluntary, noneconomic reasons.

Persons who worked 35 hours or more in the survey week are designated as working "full-time." 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 1-34 hours for noneconomic reasons and usually work full time.

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

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

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

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

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

Nonveterans are males who never served in the Armed Forces.

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

The *metropolitan areas* classification consists of the total of all areas encompassed by Standard Metropolitan Statistical Areas (SMSA's). The metropolitan area total is based on the number of

SMSA's as defined in the 1970 Decennial Census and does not include any subsequent additions or changes. Nonmetropolitan areas refer to the total of all areas outside SMSA's. The nonmetropolitan total is disaggregated into farm and nonfarm components.

HISTORIC COMPARABILITY

Raised lower age limit

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

Noncomparability of labor force levels

Before the changes introduced in 1967, the labor force data were not comparable for three earlier periods: (1) Beginning 1953, as a result of the introduction of data from the 1950 census into the estimation procedure, population levels were raised by about 600,000; labor force, total employment, and agricultural employment by about 350,000, primarily affecting the figures for totals and males; other categories were relatively unaffected; (2) beginning 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force, four-fifths of this in nonagricultural employment; other labor force categories were not appreciably affected; (3) beginning 1962, the introduction of figures from the 1960 census reduced the population by about 50,000, labor force and employment by about 200,000; unemployment totals were virtually unchanged. In addition, beginning 1972, information from the 1970 census was introduced into the estimation procedures, producing an increase in the civilian noninstitutional population of about 800,000; labor force and employment totals were raised by a little more than 300,000, and unemployment levels and rates were essentially unchanged. A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment affected the white and black and other groups but had little effect on totals. The adjustment resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black and other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black and other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

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

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

Beginning in 1978, the introduction of an expansion of the sample and revisions in the estimation procedures resulted in an increase of roughly a quarter of a million in the overall civilian labor force and employment totals; unemployment levels and rates were essentially unchanged. An explanation of the procedural changes and an indica-

tion of the differences appear in "Revisions in the Current Population Survey in January 1978" in the February 1978 issue of *Employment and Earnings*.

Beginning in October 1978, the race of the individual was determined by the household respondent for the incoming rotation group households, rather than determined by the interviewer as before. The purpose of this change is to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households 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. Although any impact of this change is still unknown, it is possible that it has caused a break in the time series for some racial statistics.

Beginning in 1979, the first stage ratio estimation method was changed in the CPS estimation procedure. The new procedure is described in the Estimating Methods section. The reasoning behind the change and an indication of the differences appear in "Change in the Estimation Procedure for the Current Population Survey beginning in January 1979" in the February 1979 issue of *Employment and Earnings*. Differences between the old and new procedures exist only for metropolitan 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 eight months, and then return to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to the sample to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a non-contiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated with the existing design. A coverage improvement sample composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction housing units that previously had no chance for selection in the CPS sample. A recent change was introduced in January 1980, when another supplemental sample of 9,000 households selected in 32 States and the District of Columbia to provide more reliable quarterly average estimates for States, was added to the existing sample.

The following table provides a description of some aspects of the CPS sample design in use during the referenced data collection periods. For a more detailed account of the history of the CPS sample design, see *The Current Population Survey: Design and Methodology*, 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 not 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

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

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

² These are housing units which were visited, but were found

to be vacant or otherwise not eligible for interview.

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

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 secondly, for each of the 46 States which contains nonsample areas. The procedure corrects for the differences that existed at the time of the 1970 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. The regional adjustment is performed by metropolitan-nonmetropolitan residence and race, while the State adjustment is done by urban-rural status and race.

b. *Second-stage ratio estimate.* In this stage, the sample proportion in the categories described below are adjusted to the distribution of independent current estimates of the population in the same categories. The second-stage ratio estimate is done in order to increase the reliability of the estimates and is done in three steps. In the first step, the sample estimates are adjusted within each State and the District of Columbia to an independent control for the population 16 years and

over for the State. The second step involves "nonwhite" persons only, and is an adjustment to independent estimates of 40 age-sex-race categories across the whole Nation. (The race categories used are black and other minority races.) The third adjustment is applied to all sample persons and is a weighting to nationwide independent population estimates within 68 age-sex-race groups. The entire second-stage ratio estimation procedure is iterated six times, each time beginning at the weights developed the previous time. This iteration ensures that the sample estimates both of State population and of national age-sex-race categories, will be virtually equal to the independent population estimates.

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

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

3. *Composite estimate procedure.* In deriving statistics for a given month, a composite estimating procedure is used which takes account

of net changes from the previous month for continuing parts of the sample (75 percent) as well as the sample results for the current month. Almost all estimates of month-to-month change are improved by this procedure, and most estimates of levels are also improved, but to a lesser extent.

Rounding of estimates

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

Reliability of the estimates

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

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

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

Nonsampling errors occurring in the interview phase of the survey have been studied by means of a reinterview program. This program is used to estimate various sources of error as well as to evaluate and control the work of the interviewers. A random sample of each interviewer's work is inspected through reinterview at regular intervals. The results indicate, among other things, that the data published from the CPS are subject to moderate systematic biases. A description of the CPS reinterview program and some of the other results may be found in the *Current Population Survey Reinterview Program, January 1961 through December 1966*, Technical Paper No. 19, 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 vary by rotation group. A description of these effects appears in the article "The Effects of Rotation Group Bias on Estimates from Panel Surveys," by Barbara A. 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 errors, and describes attempts to measure them in the CPS.

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

1. Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average result of all possible samples.
2. Approximately 90 percent of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average of all possible samples.
3. Approximately 95 percent of the intervals from 2 standard errors below the estimate to 2 standard errors above the estimate would include the average result of all possible samples.

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

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

Tables C through G provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table H contains factors for use with table G for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between two consecutive months. Estimates of change for nonconsecutive months are subject to higher standard errors. Table I contains factors for use with tables C, E, G and H to compute approximate standard errors, as described below, for levels, labor force participation rates,

and percentages as pertaining to year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages and changes in yearly averages. Note that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50 and for the 1956-1966 period they should be multiplied by 1.22.

Table A. Standard errors of major employment status categories

(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	223	171
Employed	236	180
Unemployed	107	111
Males, 20 years and over:		
Civilian labor force	124	107
Employed	135	118
Unemployed	68	71
Females, 20 years and over:		
Civilian labor force	168	129
Employed	167	131
Unemployed	64	67
Both sexes, 16-19 years:		
Civilian labor force	80	85
Employed	84	94
Unemployed	56	69
Black and other, 16 years and over:		
Civilian labor force	78	60
Employed	85	65
Unemployed	54	57
Males, 20 years and over:		
Civilian labor force	44	38
Employed	49	43
Unemployed	33	35
Females, 20 years and over:		
Civilian labor force	62	48
Employed	62	49
Unemployed	34	36
Both sexes, 16-19 years:		
Civilian labor force	33	37
Employed	30	35
Unemployed	29	32

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

Illustration. Assume that the tables showed that the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table C shows that the standard error on an estimate

of 12,000,000 is about 150,000. The 68 percent confidence interval as shown by these data is from 11,850,000 to 12,150,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 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 column one of table D the standard error on a month-to-month change of 400,000 when the monthly level is approximately 12,000,000 is about 111,000.

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

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

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

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

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

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

Table B. Standard errors of unemployment rates for major characteristics

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

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

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

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

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

(In thousands)

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

¹ See footnote 1, table C.

² Part-time labor force for unemployment also includes persons

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

Table E. Standard errors of unemployment rates

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

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

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

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

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

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

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

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

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

Type of characteristic	Factors				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or male	1.30	.89	.80	.72	.70
Female or 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

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 increases comparability and accuracy of reporting, since the respondent can see the figures that have been reported for previous months.

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

CONCEPTS

Industrial classification

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

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

Industry employment

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

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

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

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

Industry hours and earnings

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. Gross average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by the number of employees, as defined above. Gross average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

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

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

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

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

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

Indexes of aggregate weekly payrolls and hours. The indexes of aggregate weekly payrolls and hours are prepared by dividing the current month's aggregate by the average of the 12 monthly figures for 1967. For basic industries, the hours 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 J.

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 J, 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 1978 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 more than nine-tenths of the total nonagricultural employment in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted 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 1978 benchmark adjustment is shown in table K.

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

THE SAMPLE

Design

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

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

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

See footnotes at end of table.

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

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

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

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

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

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

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

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

Coverage

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

Table K. Comparison of nonagricultural employment benchmarks and estimates for March 1978

Industry division	Benchmark March 1978	Estimate March 1978	Percent difference
Total	84,455	83,897	0.7
Mining	699	686	1.9
Construction	3,733	3,675	1.6
Manufacturing	20,122	19,995	.6
Transportation and public utilities	4,804	4,759	.9
Wholesale and retail trade	18,878	18,801	.4
Finance, insurance, and real estate	4,623	4,577	1.0
Services	15,870	15,678	1.2
Government	15,726	15,726	0

Table L. Approximate size and coverage of BLS employment and payrolls sample, March 1978¹

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	161,800	33,453,000	40
Mining	2,100	268,000	38
Construction	15,800	636,000	17
Manufacturing	45,800	11,268,000	56
Transportation and public utilities:			
Railroad transportation (ICC)	39	471,000	91
Other transportation and public utilities ..	7,200	2,093,000	49
Wholesale and retail trade	39,500	3,232,000	17
Finance, insurance, and real estate	10,600	1,701,000	37
Services	23,900	3,104,000	20
Government:			
Federal ²	4,600	2,725,000	100
State and local	12,300	7,955,000	61

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

² National estimates of Federal employment 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 3,700 reports covering about 55 percent of employment in Federal establishments.

Table M. Approximate size and coverage of BLS labor turnover sample, March 1978

Industry	Employees	
	Number reported	Percent of total
Total	10,222,680	47
Manufacturing	9,345,940	46
Mining ¹	186,560	21
Telephone communication	688,980	72

¹ June 1978 data used due to strike in March.

Reliability of the employment estimates

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

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

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

[In percent]

Industry division	Average benchmark revision in estimates of employment ¹	Relative errors ² (in percent)	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment	0.2	—	—
Total private .....	.3	0.1	0.2
Mining	1.3	.5	.5
Contract construction	1.3	.2	.3
Manufacturing .....	.3	.1	.1
Durable .....	.3	.1	.1
Nondurable goods .....	.5	.1	.1
Transportation and public utilities .....	.4	.7	.4
Trade .....	.2	.1	.2
Wholesale .....	.9	.2	.3
Retail .....	.2	.2	.2
Finance, insurance, and real estate .....	.5	.2	.4
Services .....	.7	.4	.8
Government ³ .....	.1	—	—

¹ The average percent revision in employment for the 1969-71, 1974, and 1978 benchmarks.

² Relative errors relate to March 1971 data.

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

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 N and for individual industries with the specified number of employees in table O. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

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

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

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

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

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

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

¹ Assuming 12-month intervals between benchmark revisions.
² Relative errors relate to March 1971 data.

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

STATISTICS FOR STATES AND AREAS

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

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

Table P. Errors of preliminary employment estimates

Category	Root-mean-square error of—	
	Monthly level	Month-to-month change
INDUSTRY DIVISIONS		
Total nonagricultural employment	83,000	75,000
Mining	8,000	5,000
Contract construction	32,000	30,000
Manufacturing	32,000	36,000
Durable two-digit industries	3,700	3,500
Nondurable two-digit industries	2,500	2,500
Transportation and public utilities	20,000	15,000
Wholesale and retail trade	29,000	27,000
Finance, insurance, and real estate	8,000	8,000
Services	35,000	35,000
Government	43,000	37,000
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 1972 through June 1979. Detailed industry data are based on differences from August 1978 through June 1979.

PRODUCTIVITY DATA

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

Definitions

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

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

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

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

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

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

Notes on the data

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

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

State and area unemployment data (E tables)

FEDERAL-STATE COOPERATIVE PROGRAM

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

ESTIMATING METHODS

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

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

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

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

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

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

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

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

U = total entrant unemployment

E = total employment

X = total experienced unemployment

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

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

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

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

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

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

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

Seasonal adjustment

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

The seasonal adjustment programs used for these series are based on an adaption of the standard ratio-to-moving average method. They provide for "moving" adjustment factors to take account of changing seasonal patterns. A detailed description of the methods is given in the two publications, *BLS Seasonal Factor Method*, (1966) and *X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

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, September 1979. 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 1979, new seasonal adjustment factors to be used to calculate the overall unemployment rate for the first 6 months of 1980, and a description of the current seasonal adjustment methodology are published in the January 1980 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 1980 issue of this publication. Many additional series, which are either components or aggregates of the series presented, are available from the BLS upon request.

For establishment data, seasonally adjusted series for all employees, women employees, production or nonsupervisory workers, hours, and earnings, are computed using the *BLS Seasonal Factor Method*. Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 1967 base. For total private, total goods-producing, total private service-producing, trade, manufacturing, and durable and nondurable goods industries, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1967 base.

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

For labor turnover rates, seasonal adjustment factors are applied

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

The revised seasonally adjusted series for the establishment data reflect experience through June 1979. Seasonal factors to be used for current adjustment appear in the October 1979 issue of *Employment and Earnings*.

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